FCC TEST REPORT
FCC ID:2BLWM-YW5698A1

Report Number.....:	**ZKT-24092712469E**
Date of Test.....	Oct. 09, 2024 to Oct. 15, 2024
Date of issue.....:	Oct. 15, 2024
MIMO number of pages.....	91
Test Result..... :	PASS
Testing Laboratory.....:	**Shenzhen ZKT Technology Co., Ltd.**
Address ..... :	1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China
Applicant's name .....:	**Young Win Technology Co., Ltd**
Address ..... :	Room 1609,4 Buildings,Tian'an Yungu Industrial Park,Xuegang Road 2018,Longgang District,Shenzhen City China
Manufacturer's name .....:	**Young Win Technology Co., Ltd**
Address ..... :	Room 1609,4 Buildings,Tian'an Yungu Industrial Park,Xuegang Road 2018,Longgang District,Shenzhen City China
Test specification:	
Standard.....:	FCC CFR Title 47 Part 15 Subpart C Section 15.247 ANSI C63.10:2013
Test procedure..... :	/
Non-standard test method .....:	N/A
Test Report Form No..... :	/
Test Report Form(s) Originator..... :	ZKT Testing
Master TRF .....:	Dated: 2020-01-06

This device described above has been tested by ZKT, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.
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Product name..... :	**Intelligent tablet camera**
Trademark .....:	N/A
Model/Type reference..... :	YW5698A1
Ratings..... :	Input: 12V⎓3000mA For Power Adapter Power Adapter Input: AC 110-240V ~ 50/60Hz, 0.8A

Testing procedure and testing location:

Testing Laboratory.....:	**Shenzhen ZKT Technology Co., Ltd.**
Address.....:	1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China
Tested by (name + signature).....:	Jim Liu
Reviewer (name + signature).....:	Jackson Fang
Approved (name + signature).....:	Lake Xie

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1. VERSION

ReportNo.	Version	Description	Approved
ZKT-24092712469E	Rev.01	Initial issue of report	Oct. 15, 2024

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C			
Standard Section	Test Item	Result	Remark
FCC part 15.203/15.247 (c)	Antenna requirement	PASS	
FCC part 15.207	AC Power Line Conducted Emission	PASS	
FCC part 15.247 (b)(3)	Conducted Peak Output Power	PASS	
FCC part 15.247 (a)(2)	6DB Bandwidth	PASS	
FCC part 15.247 (e)	Power Spectral Density	PASS	
FCC part 15.247(d)	Band Edge	PASS	
FCC part 15.205/15.209	Spurious Emission	PASS	
ANSI C63.10:2013	Duty cycle	PASS	

NOTE:
(1)" N/A" denotes test is not applicable in this Test Report

2.1 TEST FACILITY

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

FCC Test Firm Registration Number: 692225
Designation Number: CN1299
IC Registered No.: 27033
CAB identifier: CN0110

2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ± U，where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2，providing a level of confidence of approximately 95 %。

No.	Item	Uncertainty
1	3m camber Radiated spurious emission(9KHz-30MHz)	U=4.5dB
2	3m camber Radiated spurious emission(30MHz-1GHz)	U=4.8dB
3	3m chamber Radiated spurious emission(1GHz-6GHz)	U=4.9dB
4	3m chamber Radiated spurious emission(6GHz-40GHz)	U=5.0dB
5	Conducted disturbance	U=3.2dB
6	RF Band Edge	U=1.68dB
7	RF power conducted	U=1.86dB
8	RF conducted Spurious Emission	U=2.2dB
9	RF Occupied Bandwidth	U=1.8MHz
10	RF Power Spectral Density	U=1.75dB
11	humidity uncertainty	U=5.3%
12	Temperature uncertainty	U=0.59℃

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Product Name:	Intelligent tablet camera
Model No.:	YW5698A1
Model Different.:	N/A
Serial No.:	N/A
Sample ID	ZKT-24092712469E-1
Sample(s) Status:	Engineer sample
Channel numbers:	802.11b/802.11g /802.11n20: 11 CH 802.11n40: 7 CH
Channel separation:	5MHz
Modulation technology:	802.11b: Direct Sequence Spread Spectrum(DSSS) 802.11g/802.11n20/802.11n40: Orthogonal Frequency Division Multiplexing(OFDM)
Data Rate	802.11b: 1/2/5.5/11Mbit/s 802.11g: 6/9/12/24/18/36/48/54Mbit/s 802.11n20/n40: MCS0-MCS7
Antenna Type:	FPC Antenna A&B
Antenna gain:	802.11b/g/n20/n40, working in SISO model, then the antenna gain as below: 802.11b/g/n20/n40: ANT A: 2.75dBi 802.11b/g/n20/n40: ANT B: 2.75dBi
	802.11n20/n40 can MIMO model, then the antenna gain as below: Directional gain = 2.75dBi + 10*log (1+1) dB = 5.76dBi
Power supply:	Input: 12V⎓3000mA
Power Adapter:	Input: AC 110-240V ~ 50/60Hz, 0.8A Output: 12V⎓3000mA

3.2 DESCRIPTION OF TEST MODES

Transmitting mode	Keep the EUT in continuously transmitting mode
Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.	

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Pre-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

Mode	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)
Data rate	1Mbps	6Mbps	6.5Mbps	13Mbps

Test Software	DURT
Power level setup	Default

3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted Emission

A1 — EUT (E-1)

Radiated Emission

A1 — EUT (E-1)

Conducted Spurious

A1 — EUT (E-1)

3.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Intelligent tablet camera	N/A	YW5698A1	N/A	EUT
A1	Power Adapter	N/A	GA-0361203000	N/A	Auxiliary

Item	Shielded Type	Ferrite Core	Length	Note

Note:

(1) The support equipment was authorized by Declaration of Confirmation.
(2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

3.5EQUIPMENTS LIST FOR ALL TEST ITEMS

Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Last calibration	Calibrated until
1	LISN	R&S	ENV216	101471	N/A	Nov. 14, 2023	Nov. 13, 2024
2	LISN	CYBERTEK	EM5040A	E1850400149	N/A	Nov. 02, 2023	Nov. 01, 2024
3	Test Cable	N/A	C-01	N/A	N/A	Nov. 02, 2023	Nov. 01, 2024
4	Test Cable	N/A	C-02	N/A	N/A	Nov. 02, 2023	Nov. 01, 2024
5	Test Cable	N/A	C-03	N/A	N/A	Nov. 02, 2023	Nov. 01, 2024
6	EMI Test Receiver	R&S	ESCI3	101393	4.42 SP3	Nov. 02, 2023	Nov. 01, 2024
7	Triple-Loop Antenna	N/A	RF300	N/A	N/A	Nov. 02, 2023	Nov. 01, 2024
8	Absorbing Clamp	DZ	ZN23201	15034	N/A	Nov. 07, 2023	Nov. 06, 2024
9	EMC Software	Frad	EZ-EMC	Ver.EMC-CON 3A1.1	N/A	\	\

Radiation Test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	KEYSIGHT	9020A	MY55370835	A.17.05	Nov. 02, 2023	Nov. 01, 2024
2	Spectrum Analyzer (10kHz-39.9GHz)	R&S	FSV40-N	100363	1.71 SP2	Nov. 02, 2023	Nov. 01, 2024
3	EMI Test Receiver (9kHz-7GHz)	R&S	ESCI7	101169	4.32	Nov. 02, 2023	Nov. 01, 2024
4	Bilog Antenna (30MHz-1500MHz)	Schwarzbeck	VULB9168	N/A	N/A	Nov. 13, 2023	Nov. 12, 2024
5	Horn Antenna (1GHz-18GHz)	Agilent	AH-118	071145	N/A	Nov. 13, 2023	Nov. 12, 2024
6	Horn Antenna (15GHz-40GHz)	A.H.System	SAS-574	588	N/A	Nov. 13, 2023	Nov. 12, 2024
7	Loop Antenna	TESEQ	HLA6121	58357	N/A	Nov. 16, 2023	Nov. 15, 2024
8	Amplifier (30-1000MHz)	EM Electronics	EM330 Amplifier	060747	N/A	Nov. 02, 2023	Nov. 01, 2024
9	Amplifier (1GHz-26.5GHz)	Agilent	8449B	3008A00315	N/A	Nov. 02, 2023	Nov. 01, 2024
10	Amplifier (500MHz-40GHz)	QuanJuDa	DLE-161	097	N/A	Nov. 02, 2023	Nov. 01, 2024
11	Test Cable	N/A	R-01	N/A	N/A	Nov. 02, 2023	Nov. 01, 2024
12	Test Cable	N/A	R-02	N/A	N/A	Nov. 02, 2023	Nov. 01, 2024
13	Test Cable	N/A	R-03	N/A	N/A	Nov. 02, 2023	Nov. 01, 2024
14	D.C. Power Supply	LongWei	TPR-6405D	N/A	N/A	\	\
15	EMC Software	Frad	EZ-EMC	Ver.EMC-CO N 3A1.1	N/A	\	\
16	Turntable	MF	MF-7802BS	N/A	N/A	\	\
17	Antenna tower	MF	MF-7802BS	N/A	N/A	\	\

RF Test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	KEYSIGHT	9020A	MY55370835	A.17.05	Nov. 02, 2023	Nov. 01, 2024
2	Spectrum Analyzer (10kHz-39.9GHz)	R&S	FSV40-N	100363	1.71 SP2	Nov. 02, 2023	Nov. 01, 2024
3	Test Cable	N/A	RF-01	N/A	N/A	Nov. 02, 2023	Nov. 01, 2024
4	Test Cable	N/A	RF-02	N/A	N/A	Nov. 02, 2023	Nov. 01, 2024
5	Test Cable	N/A	RF-03	N/A	N/A	Nov. 02, 2023	Nov. 01, 2024
6	ESG Signal Generator	Agilent	E4421B	N/A	B.03.84	Nov. 02, 2023	Nov. 01, 2024
7	Signal Generator	Agilent	N5182A	N/A	A.01.87	Nov. 02, 2023	Nov. 01, 2024
8	Magnetic Field Probe Tester	Narda	ELT-400	0-0344	N/A	Nov. 16, 2023	Nov. 15, 2024
9	Wideband Radio Communication Test	R&S	CMW500	106504	V 3.7.22	Nov. 02, 2023	Nov. 01, 2024
10	MWRF Power Meter Test system	MW	MW100-RF CB	N/A	N/A	Nov. 02, 2023	Nov. 01, 2024
11	Power Meter	KEYSIGHT	N1912A P	N/A	A.05.00	Nov. 02, 2023	Nov. 01, 2024
12	D.C. Power Supply	LongWei	TPR-6405D	N/A	N/A	\	\
13	RF Software	MW	MTS8310	V2.0.0.0	N/A	\	\

4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.207
Test Method:	ANSI C63.10:2013
Test Frequency Range:	150KHz to 30MHz
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto

4.1.1 POWER LINE CONDUCTED EMISSION Limits

FREQUENCY (MHz)	Limit (dBuV)		Standard
	Quasi-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

(1) *Decreases with the logarithm of the frequency.

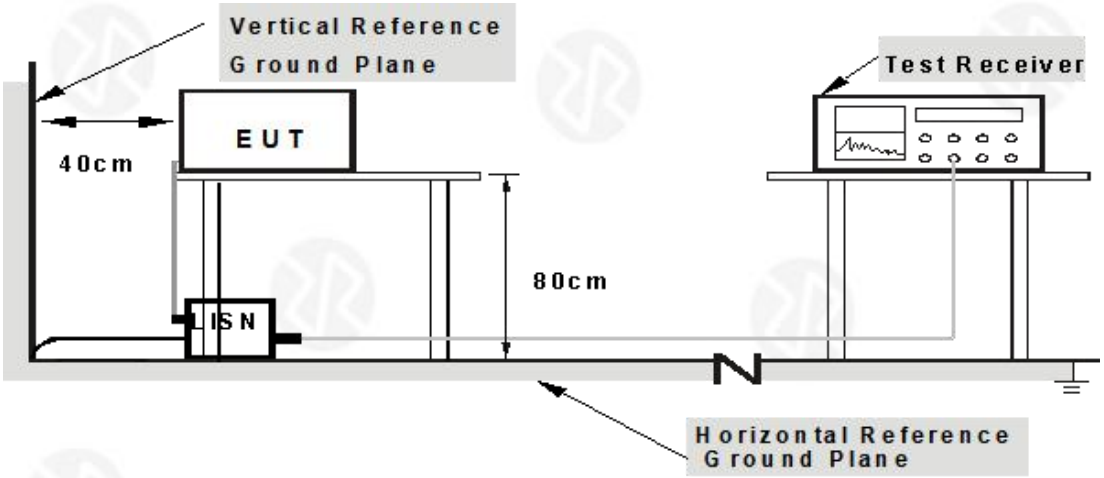
4.1.2 TEST PROCEDURE

a. The EUT was placed 0.1 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
d. LISN at least 80 cm from nearest part of EUT chassis.
e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation

4.1.4 TEST SETUP



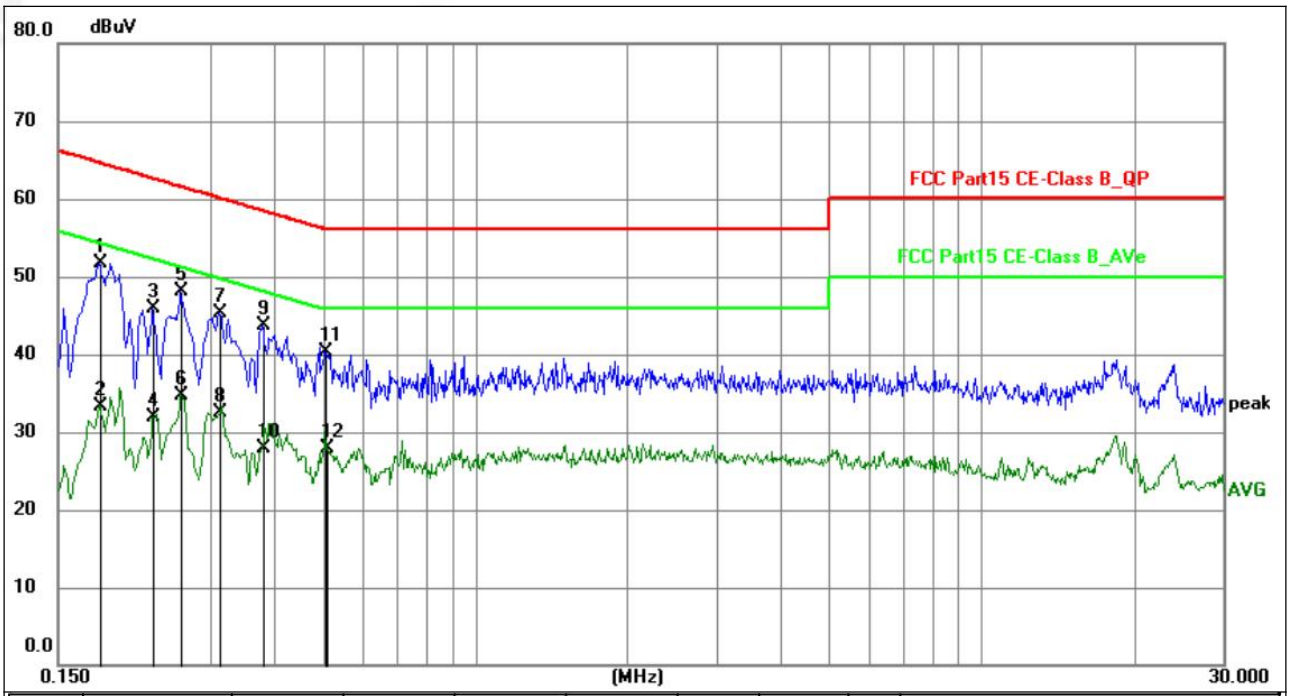
Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

4.1.5 EUT OPERATING CONDITIONS

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

4.1.6 TEST RESULT

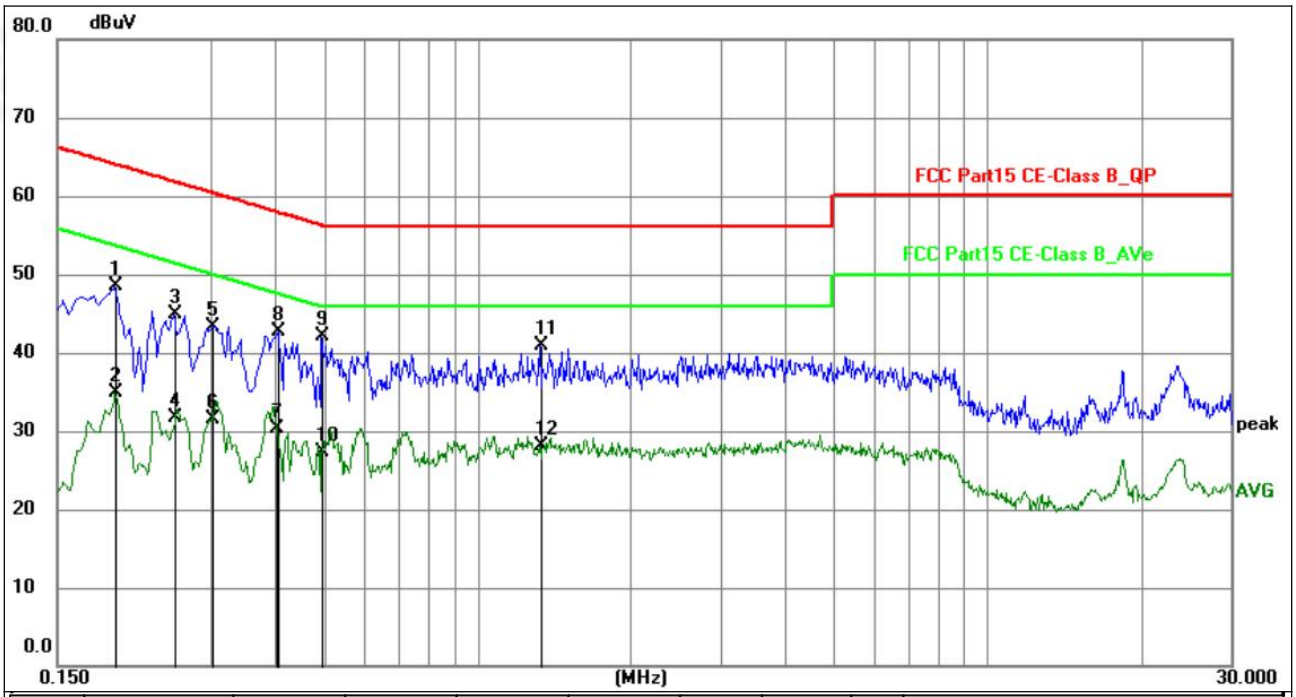
Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	L
Test Voltage:	AC 120V/60Hz	Test Mode:	MIMO A+B 802.11n20 - 2412MHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1815	30.75	20.97	51.72	64.42	-12.70	QP	P	
2	0.1815	12.42	20.97	33.39	54.42	-21.03	AVG	P	
3	0.2310	24.90	21.02	45.92	62.41	-16.49	QP	P	
4	0.2310	10.79	21.02	31.81	52.41	-20.60	AVG	P	
5	0.2625	27.19	21.01	48.20	61.35	-13.15	QP	P	
6	0.2630	13.72	21.01	34.73	51.34	-16.61	AVG	P	
7	0.3120	24.37	20.99	45.36	59.92	-14.56	QP	P	
8	0.3132	11.61	20.99	32.60	49.89	-17.29	AVG	P	
9	0.3795	22.66	20.97	43.63	58.29	-14.66	QP	P	
10	0.3795	6.89	20.97	27.86	48.29	-20.43	AVG	P	
11	0.5055	19.54	20.83	40.37	56.00	-15.63	QP	P	
12	0.5100	7.12	20.83	27.95	46.00	-18.05	AVG	P	

Notes:
1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Reading level + Correct Factor.
4. Correct Factor= Lisn factor+ Cable loss factor + limiter factor.
5. Margin= Measurement Level-Limit.
6. Both SISO ANT A and ANT B passed the test, the test data shows only the worst case MIMO A+B 802.11n20 - 2412MHz.

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	N
Test Voltage:	AC 120V/60Hz	Test Mode:	MIMO A+B 802.11n20 - 2412MHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1949	27.48	20.99	48.47	63.83	-15.36	QP	P	
2	0.1949	13.96	20.99	34.95	53.83	-18.88	AVG	P	
3	0.2535	23.90	20.98	44.88	61.64	-16.76	QP	P	
4	0.2561	10.80	20.98	31.78	51.56	-19.78	AVG	P	
5	0.3030	22.40	20.97	43.37	60.16	-16.79	QP	P	
6	0.3030	10.61	20.97	31.58	50.16	-18.58	AVG	P	
7	0.4040	9.35	20.92	30.27	47.77	-17.50	AVG	P	
8	0.4065	21.82	20.92	42.74	57.72	-14.98	QP	P	
9	0.4965	21.20	20.85	42.05	56.06	-14.01	QP	P	
10	0.4965	6.48	20.85	27.33	46.06	-18.73	AVG	P	
11	1.3244	20.01	20.96	40.97	56.00	-15.03	QP	P	
12	1.3244	7.22	20.96	28.18	46.00	-17.82	AVG	P	

Notes:
1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Reading level + Correct Factor.
4. Correct Factor= Lisn factor+ Cable loss factor + limiter factor.
5. Margin= Measurement Level-Limit.
6. Both SISO ANT A and ANT B passed the test, the test data shows only the worst case MIMO A+B 802.11n20 - 2412MHz.

4.2 RADIATED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.209
Test Method:	ANSI C63.10:2013
Test Frequency Range:	9kHz to 25GHz
Test site:	Measurement Distance: 3m
Receiver setup:	

Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	10Hz	Average

4.2.1 RADIATED EMISSION LIMITS

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

(1) The limit for radiated test was performed according to FCC PART 15C.

(2) The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).

4.2.2 TEST PROCEDURE

Below 1GHz test procedure as below:

a. The EUT was placed on the top of a rotating table 0.1 meters above the ground at a 3 meter semi-anechoiccamber. 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 avariable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum valueof 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 toheights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1meter) 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 bestopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dBmargin would be re-tested one by one using peak, quasi-peak or average method as specified and then reportedin a data sheet.

Above 1GHz test procedure as below:

g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber andchange form table 0.8 meter to 1.5 meter(Above 18GHz the distance is 1 meter and table is 1.5 meter).
h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel

Note:

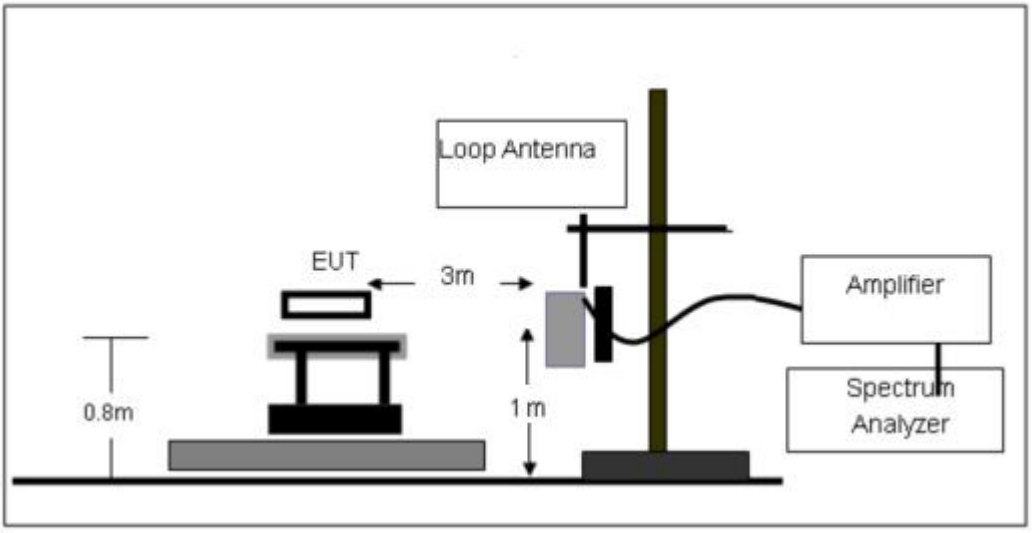
Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

4.2.3 DEVIATION FROM TEST STANDARD

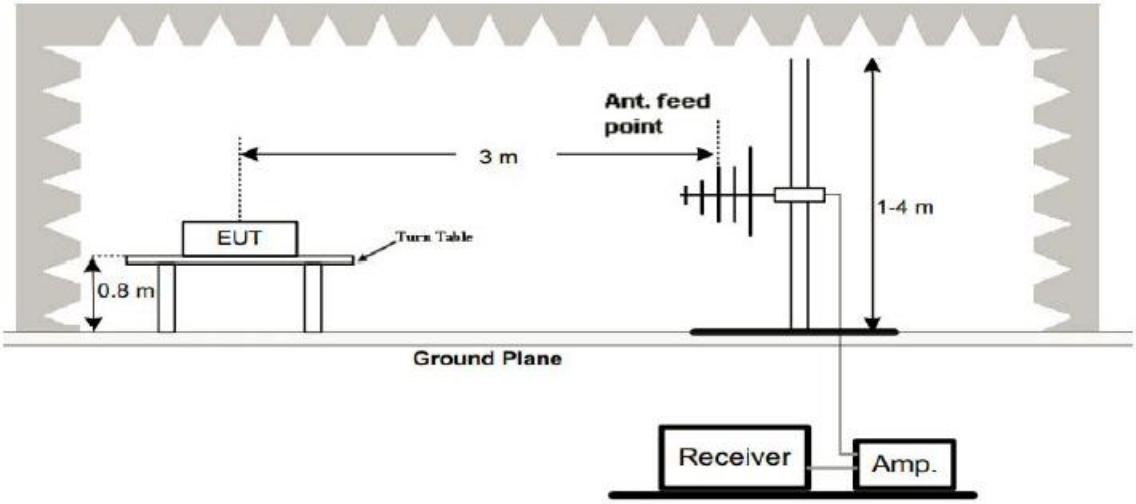
No deviation

4.2.4 TEST SETUP

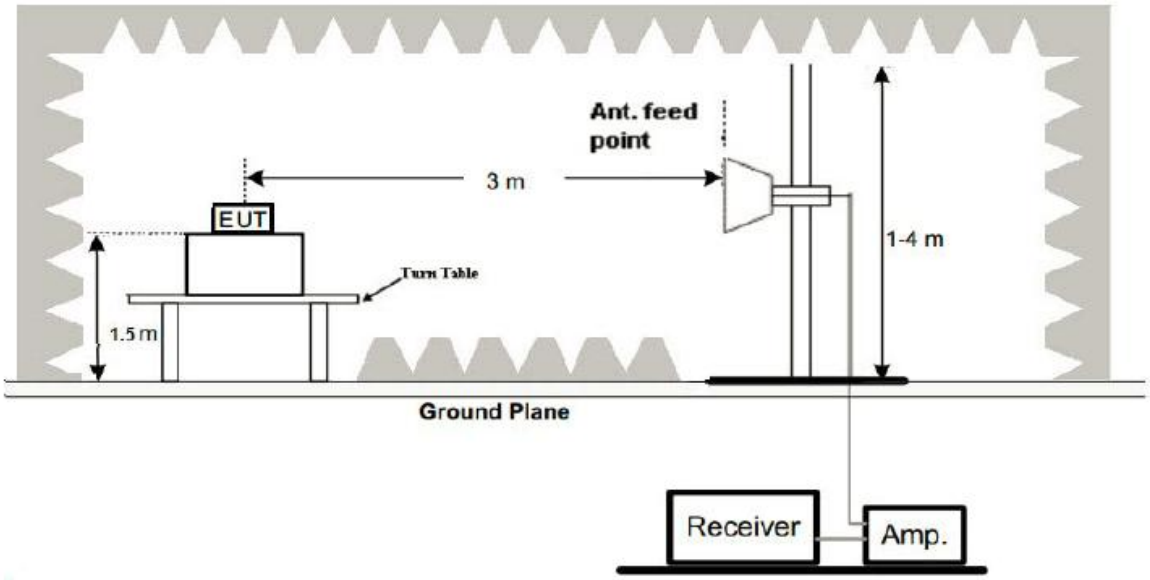
（A）Radiated Emission Test-Up Frequency Below 30MHz



（B）Radiated Emission Test-Up Frequency 30MHz~1GHz



（C）Radiated Emission Test-Up Frequency Above 1GHz



4.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

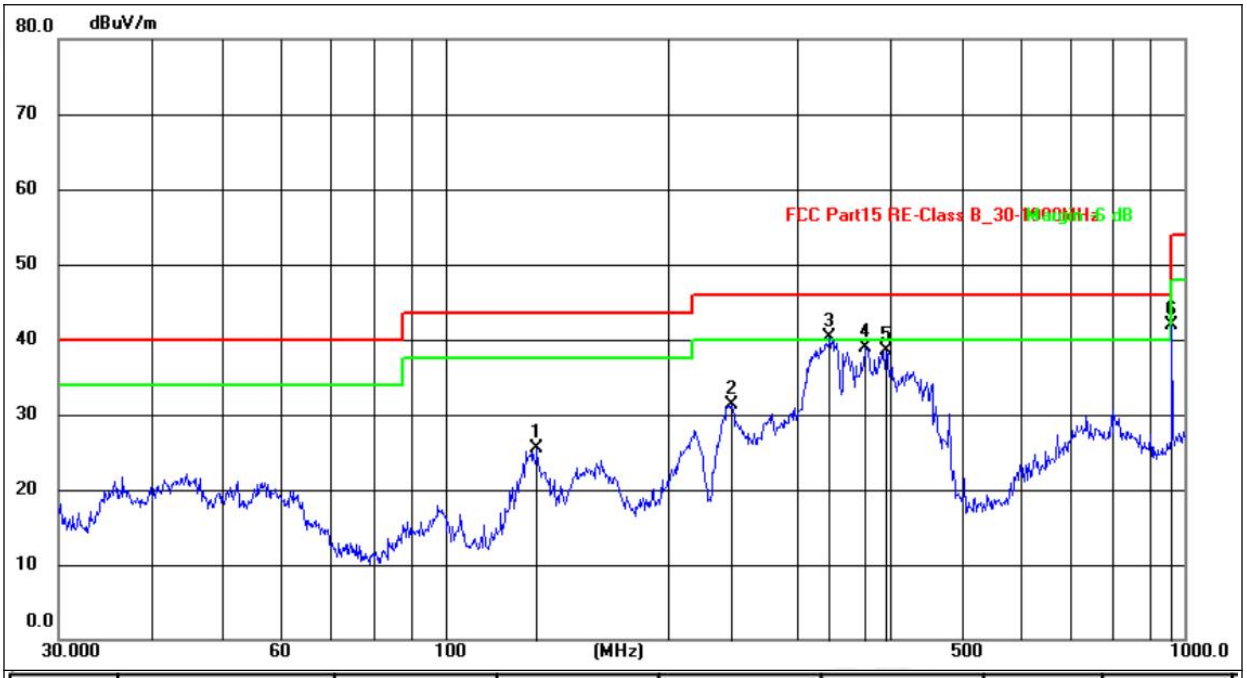
4.2.6 TEST RESULTS

Between 9KHz – 30MHz

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o) & RSS-Gen 6.13, the test result no need to reported.

Between 30MHz – 1GHz

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 12V	Test Mode :	MIMO A+B 802.11n20 - 2412MHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	133.1510	43.07	-17.50	25.57	43.50	-17.93	QP
2	244.2321	47.39	-16.12	31.27	46.00	-14.73	QP
3	331.3546	57.11	-16.85	40.26	46.00	-5.74	QP
4	370.7022	55.67	-16.69	38.98	46.00	-7.02	QP
5	394.8543	55.07	-16.59	38.48	46.00	-7.52	QP
6	962.1621	47.64	-5.67	41.97	54.00	-12.03	QP

Remarks:
1. An initial pre-scan was performed on the peak detector.
2. Quasi-Peak measurement were performed at the frequencies with maximized peak emission.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.
4. Final Level = Reading level + Correct Factor.
5. Correct Factor= Antenna factor+ Cable loss factor - Amplifier factor.
6. Margin= Measurement Level-Limit.
7. Both SISO ANT A and ANT B passed the test, the test data shows only the worst case MIMO A+B 802.11n20 - 2412MHz.

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 12V	Test Mode :	MIMO A+B 802.11n20 - 2412MHz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	35.1276	49.81	-17.58	32.23	40.00	-7.77	QP
2	205.6750	44.57	-20.61	23.96	43.50	-19.54	QP
3	339.5887	50.54	-17.02	33.52	46.00	-12.48	QP
4	387.9917	49.91	-15.43	34.48	46.00	-11.52	QP
5	422.0577	47.90	-14.28	33.62	46.00	-12.38	QP
6	962.1621	39.84	-0.42	39.42	54.00	-14.58	QP

Remarks:
1. An initial pre-scan was performed on the peak detector.
2. Quasi-Peak measurement were performed at the frequencies with maximized peak emission.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.
4. Final Level = Reading level + Correct Factor.
5. Correct Factor= Antenna factor+ Cable loss factor - Amplifier factor.
6. Margin= Measurement Level-Limit.
7. Both SISO ANT A and ANT B passed the test, the test data shows only the worst case MIMO A+B 802.11n20 - 2412MHz.

1GHz~25GHz

SISO ANT A - 802.11b

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel:2412MHz									
V	4824.00	50.16	30.55	5.77	24.66	50.04	74.00	-23.96	PK
V	4824.00	43.18	30.55	5.77	24.66	43.06	54.00	-10.94	AV
V	7236.00	53.06	30.33	6.32	24.55	53.60	74.00	-20.40	PK
V	7236.00	43.82	30.33	6.32	24.55	44.36	54.00	-9.64	AV
V	9648.00	51.73	30.85	7.45	24.69	53.02	74.00	-20.98	PK
V	9648.00	43.66	30.85	7.45	24.69	44.95	54.00	-9.05	AV
V	12060.00	51.56	31.02	8.99	25.57	55.10	74.00	-18.90	PK
V	12060.00	43.18	31.02	8.99	25.57	46.72	54.00	-7.28	AV
H	4824.00	52.67	30.55	5.77	24.66	52.55	74.00	-21.45	PK
H	4824.00	43.94	30.55	5.77	24.66	43.82	54.00	-10.18	AV
H	7236.00	54.64	30.33	6.32	24.55	55.18	74.00	-18.82	PK
H	7236.00	43.12	30.33	6.32	24.55	43.66	54.00	-10.34	AV
H	9648.00	53.10	30.85	7.45	24.69	54.39	74.00	-19.61	PK
H	9648.00	43.66	30.85	7.45	24.69	44.95	54.00	-9.05	AV
H	12060.00	53.41	31.02	8.99	25.57	56.95	74.00	-17.05	PK
H	12060.00	43.83	31.02	8.99	25.57	47.37	54.00	-6.63	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Middle Channel:2437MHz									
V	4874.00	51.10	30.55	5.77	24.66	50.98	74.00	-23.02	PK
V	4874.00	43.33	30.55	5.77	24.66	43.21	54.00	-10.79	AV
V	7311.00	54.17	30.33	6.32	24.55	54.71	74.00	-19.29	PK
V	7311.00	43.31	30.33	6.32	24.55	43.85	54.00	-10.15	AV
V	9748.00	54.16	30.85	7.45	24.69	55.45	74.00	-18.55	PK
V	9748.00	43.24	30.85	7.45	24.69	44.53	54.00	-9.47	AV
V	12185.00	53.74	31.02	8.99	25.57	57.28	74.00	-16.72	PK
V	12185.00	43.06	31.02	8.99	25.57	46.60	54.00	-7.40	AV
H	4874.00	52.01	30.55	5.77	24.66	51.89	74.00	-22.11	PK
H	4874.00	43.51	30.55	5.77	24.66	43.39	54.00	-10.61	AV
H	7311.00	53.22	30.33	6.32	24.55	53.76	74.00	-20.24	PK
H	7311.00	43.09	30.33	6.32	24.55	43.63	54.00	-10.37	AV
H	9748.00	53.01	30.85	7.45	24.69	54.30	74.00	-19.70	PK
H	9748.00	43.39	30.85	7.45	24.69	44.68	54.00	-9.32	AV
H	12185.00	52.84	31.02	8.99	25.57	56.38	74.00	-17.62	PK
H	12185.00	43.14	31.02	8.99	25.57	46.68	54.00	-7.32	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
High Channel:2462MHz									
V	4924.00	54.89	30.55	5.77	24.66	54.77	74.00	-19.23	PK
V	4924.00	43.84	30.55	5.77	24.66	43.72	54.00	-10.28	AV
V	7386.00	51.22	30.33	6.32	24.55	51.76	74.00	-22.24	PK
V	7386.00	43.20	30.33	6.32	24.55	43.74	54.00	-10.26	AV
V	9848.00	51.72	30.85	7.45	24.69	53.01	74.00	-20.99	PK
V	9848.00	43.47	30.85	7.45	24.69	44.76	54.00	-9.24	AV
V	12310.00	54.59	31.02	8.99	25.57	58.13	74.00	-15.87	PK
V	12310.00	43.06	31.02	8.99	25.57	46.60	54.00	-7.40	AV
H	4924.00	54.39	30.55	5.77	24.66	54.27	74.00	-19.73	PK
H	4924.00	43.74	30.55	5.77	24.66	43.62	54.00	-10.38	AV
H	7386.00	50.82	30.33	6.32	24.55	51.36	74.00	-22.64	PK
H	7386.00	43.23	30.33	6.32	24.55	43.77	54.00	-10.23	AV
H	9848.00	54.25	30.85	7.45	24.69	55.54	74.00	-18.46	PK
H	9848.00	43.31	30.85	7.45	24.69	44.60	54.00	-9.40	AV
H	12310.00	50.65	31.02	8.99	25.57	54.19	74.00	-19.81	PK
H	12310.00	43.89	31.02	8.99	25.57	47.43	54.00	-6.57	AV

Remark:
1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

SISO ANT B - 802.11b

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel:2412MHz									
V	4824.00	50.69	30.55	5.77	24.66	50.57	74.00	-23.43	PK
V	4824.00	43.25	30.55	5.77	24.66	43.13	54.00	-10.87	AV
V	7236.00	52.62	30.33	6.32	24.55	53.16	74.00	-20.84	PK
V	7236.00	43.41	30.33	6.32	24.55	43.95	54.00	-10.05	AV
V	9648.00	53.15	30.85	7.45	24.69	54.44	74.00	-19.56	PK
V	9648.00	43.90	30.85	7.45	24.69	45.19	54.00	-8.81	AV
V	12060.00	52.79	31.02	8.99	25.57	56.33	74.00	-17.67	PK
V	12060.00	43.01	31.02	8.99	25.57	46.55	54.00	-7.45	AV
H	4824.00	53.17	30.55	5.77	24.66	53.05	74.00	-20.95	PK
H	4824.00	43.83	30.55	5.77	24.66	43.71	54.00	-10.29	AV
H	7236.00	51.32	30.33	6.32	24.55	51.86	74.00	-22.14	PK
H	7236.00	43.48	30.33	6.32	24.55	44.02	54.00	-9.98	AV
H	9648.00	53.52	30.85	7.45	24.69	54.81	74.00	-19.19	PK
H	9648.00	43.63	30.85	7.45	24.69	44.92	54.00	-9.08	AV
H	12060.00	54.85	31.02	8.99	25.57	58.39	74.00	-15.61	PK
H	12060.00	43.86	31.02	8.99	25.57	47.40	54.00	-6.60	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Middle Channel:2437MHz									
V	4874.00	51.08	30.55	5.77	24.66	50.96	74.00	-23.04	PK
V	4874.00	43.02	30.55	5.77	24.66	42.90	54.00	-11.10	AV
V	7311.00	50.04	30.33	6.32	24.55	50.58	74.00	-23.42	PK
V	7311.00	43.48	30.33	6.32	24.55	44.02	54.00	-9.98	AV
V	9748.00	51.51	30.85	7.45	24.69	52.80	74.00	-21.20	PK
V	9748.00	43.33	30.85	7.45	24.69	44.62	54.00	-9.38	AV
V	12185.00	50.49	31.02	8.99	25.57	54.03	74.00	-19.97	PK
V	12185.00	43.85	31.02	8.99	25.57	47.39	54.00	-6.61	AV
H	4874.00	52.82	30.55	5.77	24.66	52.70	74.00	-21.30	PK
H	4874.00	43.23	30.55	5.77	24.66	43.11	54.00	-10.89	AV
H	7311.00	53.67	30.33	6.32	24.55	54.21	74.00	-19.79	PK
H	7311.00	43.68	30.33	6.32	24.55	44.22	54.00	-9.78	AV
H	9748.00	53.65	30.85	7.45	24.69	54.94	74.00	-19.06	PK
H	9748.00	43.56	30.85	7.45	24.69	44.85	54.00	-9.15	AV
H	12185.00	51.23	31.02	8.99	25.57	54.77	74.00	-19.23	PK
H	12185.00	43.39	31.02	8.99	25.57	46.93	54.00	-7.07	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
High Channel:2462MHz									
V	4924.00	51.29	30.55	5.77	24.66	51.17	74.00	-22.83	PK
V	4924.00	43.46	30.55	5.77	24.66	43.34	54.00	-10.66	AV
V	7386.00	52.59	30.33	6.32	24.55	53.13	74.00	-20.87	PK
V	7386.00	43.29	30.33	6.32	24.55	43.83	54.00	-10.17	AV
V	9848.00	52.65	30.85	7.45	24.69	53.94	74.00	-20.06	PK
V	9848.00	43.43	30.85	7.45	24.69	44.72	54.00	-9.28	AV
V	12310.00	51.02	31.02	8.99	25.57	54.56	74.00	-19.44	PK
V	12310.00	43.71	31.02	8.99	25.57	47.25	54.00	-6.75	AV
H	4924.00	52.39	30.55	5.77	24.66	52.27	74.00	-21.73	PK
H	4924.00	43.08	30.55	5.77	24.66	42.96	54.00	-11.04	AV
H	7386.00	51.57	30.33	6.32	24.55	52.11	74.00	-21.89	PK
H	7386.00	43.48	30.33	6.32	24.55	44.02	54.00	-9.98	AV
H	9848.00	50.36	30.85	7.45	24.69	51.65	74.00	-22.35	PK
H	9848.00	43.13	30.85	7.45	24.69	44.42	54.00	-9.58	AV
H	12310.00	53.10	31.02	8.99	25.57	56.64	74.00	-17.36	PK
H	12310.00	43.08	31.02	8.99	25.57	46.62	54.00	-7.38	AV

Remark:
1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

SISO ANT A - 802.11g

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel:2412MHz									
V	4824.00	51.61	30.55	5.77	24.66	51.49	74.00	-22.51	PK
V	4824.00	43.16	30.55	5.77	24.66	43.04	54.00	-10.96	AV
V	7236.00	50.78	30.33	6.32	24.55	51.32	74.00	-22.68	PK
V	7236.00	43.07	30.33	6.32	24.55	43.61	54.00	-10.39	AV
V	9648.00	50.30	30.85	7.45	24.69	51.59	74.00	-22.41	PK
V	9648.00	43.38	30.85	7.45	24.69	44.67	54.00	-9.33	AV
V	12060.00	53.97	31.02	8.99	25.57	57.51	74.00	-16.49	PK
V	12060.00	43.21	31.02	8.99	25.57	46.75	54.00	-7.25	AV
H	4824.00	53.46	30.55	5.77	24.66	53.34	74.00	-20.66	PK
H	4824.00	43.34	30.55	5.77	24.66	43.22	54.00	-10.78	AV
H	7236.00	54.66	30.33	6.32	24.55	55.20	74.00	-18.80	PK
H	7236.00	43.59	30.33	6.32	24.55	44.13	54.00	-9.87	AV
H	9648.00	53.23	30.85	7.45	24.69	54.52	74.00	-19.48	PK
H	9648.00	43.68	30.85	7.45	24.69	44.97	54.00	-9.03	AV
H	12060.00	51.16	31.02	8.99	25.57	54.70	74.00	-19.30	PK
H	12060.00	43.23	31.02	8.99	25.57	46.77	54.00	-7.23	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Middle Channel:2437MHz									
V	4874.00	51.18	30.55	5.77	24.66	51.06	74.00	-22.94	PK
V	4874.00	43.13	30.55	5.77	24.66	43.01	54.00	-10.99	AV
V	7311.00	52.17	30.33	6.32	24.55	52.71	74.00	-21.29	PK
V	7311.00	43.52	30.33	6.32	24.55	44.06	54.00	-9.94	AV
V	9748.00	54.78	30.85	7.45	24.69	56.07	74.00	-17.93	PK
V	9748.00	43.46	30.85	7.45	24.69	44.75	54.00	-9.25	AV
V	12185.00	50.09	31.02	8.99	25.57	53.63	74.00	-20.37	PK
V	12185.00	43.49	31.02	8.99	25.57	47.03	54.00	-6.97	AV
H	4874.00	50.21	30.55	5.77	24.66	50.09	74.00	-23.91	PK
H	4874.00	43.99	30.55	5.77	24.66	43.87	54.00	-10.13	AV
H	7311.00	52.37	30.33	6.32	24.55	52.91	74.00	-21.09	PK
H	7311.00	43.34	30.33	6.32	24.55	43.88	54.00	-10.12	AV
H	9748.00	52.73	30.85	7.45	24.69	54.02	74.00	-19.98	PK
H	9748.00	43.85	30.85	7.45	24.69	45.14	54.00	-8.86	AV
H	12185.00	50.69	31.02	8.99	25.57	54.23	74.00	-19.77	PK
H	12185.00	43.74	31.02	8.99	25.57	47.28	54.00	-6.72	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
High Channel:2462MHz									
V	4924.00	53.69	30.55	5.77	24.66	53.57	74.00	-20.43	PK
V	4924.00	43.11	30.55	5.77	24.66	42.99	54.00	-11.01	AV
V	7386.00	51.10	30.33	6.32	24.55	51.64	74.00	-22.36	PK
V	7386.00	43.42	30.33	6.32	24.55	43.96	54.00	-10.04	AV
V	9848.00	51.45	30.85	7.45	24.69	52.74	74.00	-21.26	PK
V	9848.00	43.46	30.85	7.45	24.69	44.75	54.00	-9.25	AV
V	12310.00	53.70	31.02	8.99	25.57	57.24	74.00	-16.76	PK
V	12310.00	43.54	31.02	8.99	25.57	47.08	54.00	-6.92	AV
H	4924.00	53.83	30.55	5.77	24.66	53.71	74.00	-20.29	PK
H	4924.00	43.51	30.55	5.77	24.66	43.39	54.00	-10.61	AV
H	7386.00	53.36	30.33	6.32	24.55	53.90	74.00	-20.10	PK
H	7386.00	43.11	30.33	6.32	24.55	43.65	54.00	-10.35	AV
H	9848.00	54.08	30.85	7.45	24.69	55.37	74.00	-18.63	PK
H	9848.00	43.67	30.85	7.45	24.69	44.96	54.00	-9.04	AV
H	12310.00	51.01	31.02	8.99	25.57	54.55	74.00	-19.45	PK
H	12310.00	43.22	31.02	8.99	25.57	46.76	54.00	-7.24	AV

Remark:
1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

SISO ANT B - 802.11g

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel:2412MHz									
V	4824.00	53.52	30.55	5.77	24.66	53.40	74.00	-20.60	PK
V	4824.00	43.85	30.55	5.77	24.66	43.73	54.00	-10.27	AV
V	7236.00	53.18	30.33	6.32	24.55	53.72	74.00	-20.28	PK
V	7236.00	43.61	30.33	6.32	24.55	44.15	54.00	-9.85	AV
V	9648.00	54.66	30.85	7.45	24.69	55.95	74.00	-18.05	PK
V	9648.00	43.80	30.85	7.45	24.69	45.09	54.00	-8.91	AV
V	12060.00	54.55	31.02	8.99	25.57	58.09	74.00	-15.91	PK
V	12060.00	43.72	31.02	8.99	25.57	47.26	54.00	-6.74	AV
H	4824.00	53.94	30.55	5.77	24.66	53.82	74.00	-20.18	PK
H	4824.00	43.22	30.55	5.77	24.66	43.10	54.00	-10.90	AV
H	7236.00	51.26	30.33	6.32	24.55	51.80	74.00	-22.20	PK
H	7236.00	44.00	30.33	6.32	24.55	44.54	54.00	-9.46	AV
H	9648.00	52.59	30.85	7.45	24.69	53.88	74.00	-20.12	PK
H	9648.00	43.67	30.85	7.45	24.69	44.96	54.00	-9.04	AV
H	12060.00	51.19	31.02	8.99	25.57	54.73	74.00	-19.27	PK
H	12060.00	43.41	31.02	8.99	25.57	46.95	54.00	-7.05	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Middle Channel:2437MHz									
V	4874.00	52.88	30.55	5.77	24.66	52.76	74.00	-21.24	PK
V	4874.00	43.44	30.55	5.77	24.66	43.32	54.00	-10.68	AV
V	7311.00	52.17	30.33	6.32	24.55	52.71	74.00	-21.29	PK
V	7311.00	43.85	30.33	6.32	24.55	44.39	54.00	-9.61	AV
V	9748.00	50.81	30.85	7.45	24.69	52.10	74.00	-21.90	PK
V	9748.00	43.66	30.85	7.45	24.69	44.95	54.00	-9.05	AV
V	12185.00	52.67	31.02	8.99	25.57	56.21	74.00	-17.79	PK
V	12185.00	44.00	31.02	8.99	25.57	47.54	54.00	-6.46	AV
H	4874.00	52.37	30.55	5.77	24.66	52.25	74.00	-21.75	PK
H	4874.00	43.60	30.55	5.77	24.66	43.48	54.00	-10.52	AV
H	7311.00	50.42	30.33	6.32	24.55	50.96	74.00	-23.04	PK
H	7311.00	43.48	30.33	6.32	24.55	44.02	54.00	-9.98	AV
H	9748.00	52.18	30.85	7.45	24.69	53.47	74.00	-20.53	PK
H	9748.00	43.01	30.85	7.45	24.69	44.30	54.00	-9.70	AV
H	12185.00	52.68	31.02	8.99	25.57	56.22	74.00	-17.78	PK
H	12185.00	43.73	31.02	8.99	25.57	47.27	54.00	-6.73	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
High Channel:2462MHz									
V	4924.00	53.92	30.55	5.77	24.66	53.80	74.00	-20.20	PK
V	4924.00	43.84	30.55	5.77	24.66	43.72	54.00	-10.28	AV
V	7386.00	52.72	30.33	6.32	24.55	53.26	74.00	-20.74	PK
V	7386.00	43.62	30.33	6.32	24.55	44.16	54.00	-9.84	AV
V	9848.00	52.31	30.85	7.45	24.69	53.60	74.00	-20.40	PK
V	9848.00	43.25	30.85	7.45	24.69	44.54	54.00	-9.46	AV
V	12310.00	51.61	31.02	8.99	25.57	55.15	74.00	-18.85	PK
V	12310.00	43.73	31.02	8.99	25.57	47.27	54.00	-6.73	AV
H	4924.00	52.89	30.55	5.77	24.66	52.77	74.00	-21.23	PK
H	4924.00	43.82	30.55	5.77	24.66	43.70	54.00	-10.30	AV
H	7386.00	50.29	30.33	6.32	24.55	50.83	74.00	-23.17	PK
H	7386.00	43.60	30.33	6.32	24.55	44.14	54.00	-9.86	AV
H	9848.00	50.13	30.85	7.45	24.69	51.42	74.00	-22.58	PK
H	9848.00	43.40	30.85	7.45	24.69	44.69	54.00	-9.31	AV
H	12310.00	52.44	31.02	8.99	25.57	55.98	74.00	-18.02	PK
H	12310.00	43.31	31.02	8.99	25.57	46.85	54.00	-7.15	AV

Remark:
1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

SISO ANT A - 802.11n20

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel:2412MHz									
V	4824.00	51.35	30.55	5.77	24.66	51.23	74.00	-22.77	PK
V	4824.00	43.81	30.55	5.77	24.66	43.69	54.00	-10.31	AV
V	7236.00	54.85	30.33	6.32	24.55	55.39	74.00	-18.61	PK
V	7236.00	43.11	30.33	6.32	24.55	43.65	54.00	-10.35	AV
V	9648.00	51.71	30.85	7.45	24.69	53.00	74.00	-21.00	PK
V	9648.00	43.42	30.85	7.45	24.69	44.71	54.00	-9.29	AV
V	12060.00	50.08	31.02	8.99	25.57	53.62	74.00	-20.38	PK
V	12060.00	43.56	31.02	8.99	25.57	47.10	54.00	-6.90	AV
H	4824.00	50.57	30.55	5.77	24.66	50.45	74.00	-23.55	PK
H	4824.00	43.76	30.55	5.77	24.66	43.64	54.00	-10.36	AV
H	7236.00	51.77	30.33	6.32	24.55	52.31	74.00	-21.69	PK
H	7236.00	43.25	30.33	6.32	24.55	43.79	54.00	-10.21	AV
H	9648.00	54.92	30.85	7.45	24.69	56.21	74.00	-17.79	PK
H	9648.00	43.43	30.85	7.45	24.69	44.72	54.00	-9.28	AV
H	12060.00	53.38	31.02	8.99	25.57	56.92	74.00	-17.08	PK
H	12060.00	43.17	31.02	8.99	25.57	46.71	54.00	-7.29	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Middle Channel:2437MHz									
V	4874.00	54.95	30.55	5.77	24.66	54.83	74.00	-19.17	PK
V	4874.00	43.47	30.55	5.77	24.66	43.35	54.00	-10.65	AV
V	7311.00	52.42	30.33	6.32	24.55	52.96	74.00	-21.04	PK
V	7311.00	43.55	30.33	6.32	24.55	44.09	54.00	-9.91	AV
V	9748.00	50.89	30.85	7.45	24.69	52.18	74.00	-21.82	PK
V	9748.00	43.31	30.85	7.45	24.69	44.60	54.00	-9.40	AV
V	12185.00	53.76	31.02	8.99	25.57	57.30	74.00	-16.70	PK
V	12185.00	43.95	31.02	8.99	25.57	47.49	54.00	-6.51	AV
H	4874.00	52.34	30.55	5.77	24.66	52.22	74.00	-21.78	PK
H	4874.00	43.61	30.55	5.77	24.66	43.49	54.00	-10.51	AV
H	7311.00	53.38	30.33	6.32	24.55	53.92	74.00	-20.08	PK
H	7311.00	43.72	30.33	6.32	24.55	44.26	54.00	-9.74	AV
H	9748.00	53.93	30.85	7.45	24.69	55.22	74.00	-18.78	PK
H	9748.00	43.99	30.85	7.45	24.69	45.28	54.00	-8.72	AV
H	12185.00	52.01	31.02	8.99	25.57	55.55	74.00	-18.45	PK
H	12185.00	43.01	31.02	8.99	25.57	46.55	54.00	-7.45	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
High Channel:2462MHz									
V	4924.00	51.62	30.55	5.77	24.66	51.50	74.00	-22.50	PK
V	4924.00	43.48	30.55	5.77	24.66	43.36	54.00	-10.64	AV
V	7386.00	53.49	30.33	6.32	24.55	54.03	74.00	-19.97	PK
V	7386.00	43.59	30.33	6.32	24.55	44.13	54.00	-9.87	AV
V	9848.00	54.72	30.85	7.45	24.69	56.01	74.00	-17.99	PK
V	9848.00	43.69	30.85	7.45	24.69	44.98	54.00	-9.02	AV
V	12310.00	50.32	31.02	8.99	25.57	53.86	74.00	-20.14	PK
V	12310.00	43.86	31.02	8.99	25.57	47.40	54.00	-6.60	AV
H	4924.00	52.64	30.55	5.77	24.66	52.52	74.00	-21.48	PK
H	4924.00	43.60	30.55	5.77	24.66	43.48	54.00	-10.52	AV
H	7386.00	52.96	30.33	6.32	24.55	53.50	74.00	-20.50	PK
H	7386.00	43.55	30.33	6.32	24.55	44.09	54.00	-9.91	AV
H	9848.00	50.32	30.85	7.45	24.69	51.61	74.00	-22.39	PK
H	9848.00	43.51	30.85	7.45	24.69	44.80	54.00	-9.20	AV
H	12310.00	54.78	31.02	8.99	25.57	58.32	74.00	-15.68	PK
H	12310.00	43.06	31.02	8.99	25.57	46.60	54.00	-7.40	AV

Remark:
1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
4. Both ANT A and ANT B passed the test, the test data shows only the worst case SISO ANT A.

MIMO ANT A+B - 802.11n20

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel:2412MHz									
V	4824.00	54.87	30.55	5.77	24.66	54.75	74.00	-19.25	PK
V	4824.00	43.59	30.55	5.77	24.66	43.47	54.00	-10.53	AV
V	7236.00	51.40	30.33	6.32	24.55	51.94	74.00	-22.06	PK
V	7236.00	43.44	30.33	6.32	24.55	43.98	54.00	-10.02	AV
V	9648.00	53.89	30.85	7.45	24.69	55.18	74.00	-18.82	PK
V	9648.00	43.63	30.85	7.45	24.69	44.92	54.00	-9.08	AV
V	12060.00	50.13	31.02	8.99	25.57	53.67	74.00	-20.33	PK
V	12060.00	43.23	31.02	8.99	25.57	46.77	54.00	-7.23	AV
H	4824.00	52.28	30.55	5.77	24.66	52.16	74.00	-21.84	PK
H	4824.00	43.89	30.55	5.77	24.66	43.77	54.00	-10.23	AV
H	7236.00	51.98	30.33	6.32	24.55	52.52	74.00	-21.48	PK
H	7236.00	43.52	30.33	6.32	24.55	44.06	54.00	-9.94	AV
H	9648.00	53.35	30.85	7.45	24.69	54.64	74.00	-19.36	PK
H	9648.00	43.73	30.85	7.45	24.69	45.02	54.00	-8.98	AV
H	12060.00	51.67	31.02	8.99	25.57	55.21	74.00	-18.79	PK
H	12060.00	43.41	31.02	8.99	25.57	46.95	54.00	-7.05	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Middle Channel:2437MHz									
V	4874.00	52.97	30.55	5.77	24.66	52.85	74.00	-21.15	PK
V	4874.00	43.12	30.55	5.77	24.66	43.00	54.00	-11.00	AV
V	7311.00	51.37	30.33	6.32	24.55	51.91	74.00	-22.09	PK
V	7311.00	43.41	30.33	6.32	24.55	43.95	54.00	-10.05	AV
V	9748.00	51.14	30.85	7.45	24.69	52.43	74.00	-21.57	PK
V	9748.00	43.19	30.85	7.45	24.69	44.48	54.00	-9.52	AV
V	12185.00	51.99	31.02	8.99	25.57	55.53	74.00	-18.47	PK
V	12185.00	43.83	31.02	8.99	25.57	47.37	54.00	-6.63	AV
H	4874.00	54.39	30.55	5.77	24.66	54.27	74.00	-19.73	PK
H	4874.00	43.52	30.55	5.77	24.66	43.40	54.00	-10.60	AV
H	7311.00	51.94	30.33	6.32	24.55	52.48	74.00	-21.52	PK
H	7311.00	43.50	30.33	6.32	24.55	44.04	54.00	-9.96	AV
H	9748.00	51.71	30.85	7.45	24.69	53.00	74.00	-21.00	PK
H	9748.00	43.68	30.85	7.45	24.69	44.97	54.00	-9.03	AV
H	12185.00	52.78	31.02	8.99	25.57	56.32	74.00	-17.68	PK
H	12185.00	43.06	31.02	8.99	25.57	46.60	54.00	-7.40	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
High Channel:2462MHz									
V	4924.00	51.11	30.55	5.77	24.66	50.99	74.00	-23.01	PK
V	4924.00	43.31	30.55	5.77	24.66	43.19	54.00	-10.81	AV
V	7386.00	52.52	30.33	6.32	24.55	53.06	74.00	-20.94	PK
V	7386.00	43.05	30.33	6.32	24.55	43.59	54.00	-10.41	AV
V	9848.00	53.45	30.85	7.45	24.69	54.74	74.00	-19.26	PK
V	9848.00	43.17	30.85	7.45	24.69	44.46	54.00	-9.54	AV
V	12310.00	50.76	31.02	8.99	25.57	54.30	74.00	-19.70	PK
V	12310.00	43.65	31.02	8.99	25.57	47.19	54.00	-6.81	AV
H	4924.00	53.61	30.55	5.77	24.66	53.49	74.00	-20.51	PK
H	4924.00	43.72	30.55	5.77	24.66	43.60	54.00	-10.40	AV
H	7386.00	51.90	30.33	6.32	24.55	52.44	74.00	-21.56	PK
H	7386.00	43.20	30.33	6.32	24.55	43.74	54.00	-10.26	AV
H	9848.00	54.46	30.85	7.45	24.69	55.75	74.00	-18.25	PK
H	9848.00	43.68	30.85	7.45	24.69	44.97	54.00	-9.03	AV
H	12310.00	51.68	31.02	8.99	25.57	55.22	74.00	-18.78	PK
H	12310.00	43.01	31.02	8.99	25.57	46.55	54.00	-7.45	AV

Remark:
1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

SISO ANT A - 802.11n40

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel:2422MHz									
V	4844.00	53.82	30.55	5.77	24.66	53.70	74.00	-20.30	PK
V	4844.00	43.10	30.55	5.77	24.66	42.98	54.00	-11.02	AV
V	7266.00	52.03	30.33	6.32	24.55	52.57	74.00	-21.43	PK
V	7266.00	43.61	30.33	6.32	24.55	44.15	54.00	-9.85	AV
V	9688.00	52.72	30.85	7.45	24.69	54.01	74.00	-19.99	PK
V	9688.00	43.39	30.85	7.45	24.69	44.68	54.00	-9.32	AV
V	12110.00	53.27	31.02	8.99	25.57	56.81	74.00	-17.19	PK
V	12110.00	43.04	31.02	8.99	25.57	46.58	54.00	-7.42	AV
H	4844.00	54.93	30.55	5.77	24.66	54.81	74.00	-19.19	PK
H	4844.00	43.43	30.55	5.77	24.66	43.31	54.00	-10.69	AV
H	7266.00	53.05	30.33	6.32	24.55	53.59	74.00	-20.41	PK
H	7266.00	43.01	30.33	6.32	24.55	43.55	54.00	-10.45	AV
H	9688.00	53.07	30.85	7.45	24.69	54.36	74.00	-19.64	PK
H	9688.00	43.55	30.85	7.45	24.69	44.84	54.00	-9.16	AV
H	12110.00	51.02	31.02	8.99	25.57	54.56	74.00	-19.44	PK
H	12110.00	43.34	31.02	8.99	25.57	46.88	54.00	-7.12	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Middle Channel:2437MHz									
V	4874.00	53.00	30.55	5.77	24.66	52.88	74.00	-21.12	PK
V	4874.00	43.26	30.55	5.77	24.66	43.14	54.00	-10.86	AV
V	7311.00	50.25	30.33	6.32	24.55	50.79	74.00	-23.21	PK
V	7311.00	43.26	30.33	6.32	24.55	43.80	54.00	-10.20	AV
V	9748.00	52.89	30.85	7.45	24.69	54.18	74.00	-19.82	PK
V	9748.00	43.61	30.85	7.45	24.69	44.90	54.00	-9.10	AV
V	12185.00	52.36	31.02	8.99	25.57	55.90	74.00	-18.10	PK
V	12185.00	43.01	31.02	8.99	25.57	46.55	54.00	-7.45	AV
H	4874.00	50.75	30.55	5.77	24.66	50.63	74.00	-23.37	PK
H	4874.00	43.83	30.55	5.77	24.66	43.71	54.00	-10.29	AV
H	7311.00	50.29	30.33	6.32	24.55	50.83	74.00	-23.17	PK
H	7311.00	43.06	30.33	6.32	24.55	43.60	54.00	-10.40	AV
H	9748.00	51.25	30.85	7.45	24.69	52.54	74.00	-21.46	PK
H	9748.00	43.98	30.85	7.45	24.69	45.27	54.00	-8.73	AV
H	12185.00	51.31	31.02	8.99	25.57	54.85	74.00	-19.15	PK
H	12185.00	43.03	31.02	8.99	25.57	46.57	54.00	-7.43	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
High Channel:2452MHz									
V	4904.00	52.67	30.55	5.77	24.66	52.55	74.00	-21.45	PK
V	4904.00	43.28	30.55	5.77	24.66	43.16	54.00	-10.84	AV
V	7356.00	53.82	30.33	6.32	24.55	54.36	74.00	-19.64	PK
V	7356.00	43.30	30.33	6.32	24.55	43.84	54.00	-10.16	AV
V	9808.00	54.09	30.85	7.45	24.69	55.38	74.00	-18.62	PK
V	9808.00	43.07	30.85	7.45	24.69	44.36	54.00	-9.64	AV
V	12260.00	54.71	31.02	8.99	25.57	58.25	74.00	-15.75	PK
V	12260.00	43.76	31.02	8.99	25.57	47.30	54.00	-6.70	AV
H	4904.00	54.31	30.55	5.77	24.66	54.19	74.00	-19.81	PK
H	4904.00	43.59	30.55	5.77	24.66	43.47	54.00	-10.53	AV
H	7356.00	51.51	30.33	6.32	24.55	52.05	74.00	-21.95	PK
H	7356.00	43.72	30.33	6.32	24.55	44.26	54.00	-9.74	AV
H	9808.00	53.79	30.85	7.45	24.69	55.08	74.00	-18.92	PK
H	9808.00	43.02	30.85	7.45	24.69	44.31	54.00	-9.69	AV
H	12260.00	54.02	31.02	8.99	25.57	57.56	74.00	-16.44	PK
H	12260.00	43.51	31.02	8.99	25.57	47.05	54.00	-6.95	AV

Remark:
1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
4. Both ANT A and ANT B passed the test, the test data shows only the worst case SISO ANT A.

MIMO ANT A+B - 802.11n40

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel:2422MHz									
V	4844.00	53.48	30.55	5.77	24.66	53.36	74.00	-20.64	PK
V	4844.00	43.52	30.55	5.77	24.66	43.40	54.00	-10.60	AV
V	7266.00	52.29	30.33	6.32	24.55	52.83	74.00	-21.17	PK
V	7266.00	43.01	30.33	6.32	24.55	43.55	54.00	-10.45	AV
V	9688.00	50.01	30.85	7.45	24.69	51.30	74.00	-22.70	PK
V	9688.00	43.99	30.85	7.45	24.69	45.28	54.00	-8.72	AV
V	12110.00	50.05	31.02	8.99	25.57	53.59	74.00	-20.41	PK
V	12110.00	43.52	31.02	8.99	25.57	47.06	54.00	-6.94	AV
H	4844.00	52.57	30.55	5.77	24.66	52.45	74.00	-21.55	PK
H	4844.00	43.34	30.55	5.77	24.66	43.22	54.00	-10.78	AV
H	7266.00	53.41	30.33	6.32	24.55	53.95	74.00	-20.05	PK
H	7266.00	43.85	30.33	6.32	24.55	44.39	54.00	-9.61	AV
H	9688.00	51.68	30.85	7.45	24.69	52.97	74.00	-21.03	PK
H	9688.00	43.16	30.85	7.45	24.69	44.45	54.00	-9.55	AV
H	12110.00	53.48	31.02	8.99	25.57	57.02	74.00	-16.98	PK
H	12110.00	43.06	31.02	8.99	25.57	46.60	54.00	-7.40	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Middle Channel:2437MHz									
V	4874.00	50.15	30.55	5.77	24.66	50.03	74.00	-23.97	PK
V	4874.00	43.30	30.55	5.77	24.66	43.18	54.00	-10.82	AV
V	7311.00	51.19	30.33	6.32	24.55	51.73	74.00	-22.27	PK
V	7311.00	43.81	30.33	6.32	24.55	44.35	54.00	-9.65	AV
V	9748.00	54.88	30.85	7.45	24.69	56.17	74.00	-17.83	PK
V	9748.00	43.58	30.85	7.45	24.69	44.87	54.00	-9.13	AV
V	12185.00	50.05	31.02	8.99	25.57	53.59	74.00	-20.41	PK
V	12185.00	43.82	31.02	8.99	25.57	47.36	54.00	-6.64	AV
H	4874.00	53.42	30.55	5.77	24.66	53.30	74.00	-20.70	PK
H	4874.00	43.31	30.55	5.77	24.66	43.19	54.00	-10.81	AV
H	7311.00	53.61	30.33	6.32	24.55	54.15	74.00	-19.85	PK
H	7311.00	43.84	30.33	6.32	24.55	44.38	54.00	-9.62	AV
H	9748.00	54.16	30.85	7.45	24.69	55.45	74.00	-18.55	PK
H	9748.00	43.80	30.85	7.45	24.69	45.09	54.00	-8.91	AV
H	12185.00	53.90	31.02	8.99	25.57	57.44	74.00	-16.56	PK
H	12185.00	43.65	31.02	8.99	25.57	47.19	54.00	-6.81	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
High Channel:2452MHz									
V	4904.00	50.47	30.55	5.77	24.66	50.35	74.00	-23.65	PK
V	4904.00	43.50	30.55	5.77	24.66	43.38	54.00	-10.62	AV
V	7356.00	54.33	30.33	6.32	24.55	54.87	74.00	-19.13	PK
V	7356.00	43.60	30.33	6.32	24.55	44.14	54.00	-9.86	AV
V	9808.00	50.56	30.85	7.45	24.69	51.85	74.00	-22.15	PK
V	9808.00	43.85	30.85	7.45	24.69	45.14	54.00	-8.86	AV
V	12260.00	53.60	31.02	8.99	25.57	57.14	74.00	-16.86	PK
V	12260.00	43.44	31.02	8.99	25.57	46.98	54.00	-7.02	AV
H	4904.00	52.74	30.55	5.77	24.66	52.62	74.00	-21.38	PK
H	4904.00	43.32	30.55	5.77	24.66	43.20	54.00	-10.80	AV
H	7356.00	52.71	30.33	6.32	24.55	53.25	74.00	-20.75	PK
H	7356.00	43.95	30.33	6.32	24.55	44.49	54.00	-9.51	AV
H	9808.00	52.90	30.85	7.45	24.69	54.19	74.00	-19.81	PK
H	9808.00	43.04	30.85	7.45	24.69	44.33	54.00	-9.67	AV
H	12260.00	52.34	31.02	8.99	25.57	55.88	74.00	-18.12	PK
H	12260.00	43.43	31.02	8.99	25.57	46.97	54.00	-7.03	AV

Remark:
1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

5.RADIATED BAND EMISSIONMEASUREMENT

5.1 TEST REQUIREMENT:

Test Requirement:	FCC Part15 C Section 15.209 and 15.205
Test Method:	ANSI C63.10: 2013
Test Frequency Range:	All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed.
Test site:	Measurement Distance: 3m
Receiver setup:	

Frequency	Detector	RBW	VBW	Value
Above 1GHz	Peak	1MHz	3MHz	Peak
	Average	1MHz	3MHz	Average

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class B (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

(1) The limit for radiated test was performed according to FCC PART 15C.

(2) The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).

5.2 TEST PROCEDURE

Above 1GHz test procedure as below:

a. 1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. 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 and the rota 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 bestopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dBmargin would be re-tested one by one using peak, quasi-peak or average method as specified and then reportedin a data sheet.

g. Test the EUT in the lowest channel,the Highest channel

Note:

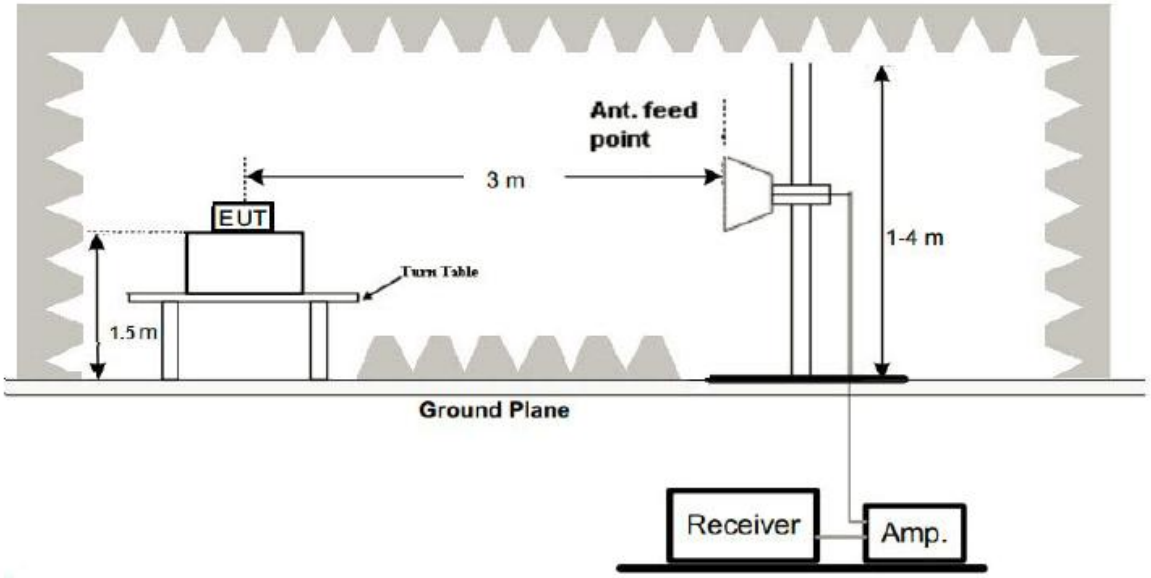
Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

5.3 DEVIATION FROM TEST STANDARD

No deviation

5.4 TEST SETUP

Radiated Emission Test-Up Frequency Above 1GHz



5.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

5.6 TEST RESULT

	Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission level (dBuV/m)	Limit (dBu V/m)	Margin (dB)	Dete ctor Type	Result
SISO ANT A 802.11b	LowChannel 2412MHz										
	H	2390.00	54.30	30.22	4.85	23.98	52.91	74.00	-21.09	PK	PASS
	H	2390.00	44.64	30.22	4.85	23.98	43.25	54.00	-10.75	AV	PASS
	H	2400.00	54.18	30.22	4.85	23.98	52.79	74.00	-21.21	PK	PASS
	H	2400.00	44.05	30.22	4.85	23.98	42.66	54.00	-11.34	AV	PASS
	V	2390.00	54.36	30.22	4.85	23.98	52.97	74.00	-21.03	PK	PASS
	V	2390.00	44.57	30.22	4.85	23.98	43.18	54.00	-10.82	AV	PASS
	V	2400.00	53.62	30.22	4.85	23.98	52.23	74.00	-21.77	PK	PASS
	V	2400.00	44.39	30.22	4.85	23.98	43.00	54.00	-11.00	AV	PASS
	HighChannel 2462MHz										
	H	2483.50	54.83	30.22	4.85	23.98	53.44	74.00	-20.56	PK	PASS
	H	2483.50	44.39	30.22	4.85	23.98	43.00	54.00	-11.00	AV	PASS
	H	2500.00	53.68	30.22	4.85	23.98	52.29	74.00	-21.71	PK	PASS
	H	2500.00	44.69	30.22	4.85	23.98	43.30	54.00	-10.70	AV	PASS
	V	2483.50	54.97	30.22	4.85	23.98	53.58	74.00	-20.42	PK	PASS
	V	2483.50	44.52	30.22	4.85	23.98	43.13	54.00	-10.87	AV	PASS
	V	2500.00	54.22	30.22	4.85	23.98	52.83	74.00	-21.17	PK	PASS
	V	2500.00	44.80	30.22	4.85	23.98	43.41	54.00	-10.59	AV	PASS
SISO ANT B 802.11b	LowChannel 2412MHz										
	H	2390.00	53.55	30.22	4.85	23.98	52.16	74.00	-21.84	PK	PASS
	H	2390.00	44.55	30.22	4.85	23.98	43.16	54.00	-10.84	AV	PASS
	H	2400.00	54.08	30.22	4.85	23.98	52.69	74.00	-21.31	PK	PASS
	H	2400.00	44.30	30.22	4.85	23.98	42.91	54.00	-11.09	AV	PASS
	V	2390.00	54.12	30.22	4.85	23.98	52.73	74.00	-21.27	PK	PASS
	V	2390.00	44.58	30.22	4.85	23.98	43.19	54.00	-10.81	AV	PASS
	V	2400.00	54.52	30.22	4.85	23.98	53.13	74.00	-20.87	PK	PASS
	V	2400.00	44.50	30.22	4.85	23.98	43.11	54.00	-10.89	AV	PASS
	High Channel 2462MHz										
	H	2483.50	54.41	30.22	4.85	23.98	53.02	74.00	-20.98	PK	PASS
	H	2483.50	44.45	30.22	4.85	23.98	43.06	54.00	-10.94	AV	PASS
	H	2500.00	53.82	30.22	4.85	23.98	52.43	74.00	-21.57	PK	PASS
	H	2500.00	44.16	30.22	4.85	23.98	42.77	54.00	-11.23	AV	PASS
	V	2483.50	53.89	30.22	4.85	23.98	52.50	74.00	-21.50	PK	PASS
	V	2483.50	44.44	30.22	4.85	23.98	43.05	54.00	-10.95	AV	PASS
	V	2500.00	54.56	30.22	4.85	23.98	53.17	74.00	-20.83	PK	PASS
	V	2500.00	44.60	30.22	4.85	23.98	43.21	54.00	-10.79	AV	PASS

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit.

	Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission level (dBuV/m)	Limit (dBu V/m)	Margin (dB)	Dete ctor Type	Result
SISO ANT A 802.11g	LowChannel 2412MHz										
	H	2390.00	54.02	30.22	4.85	23.98	52.63	74.00	-21.37	PK	PASS
	H	2390.00	44.93	30.22	4.85	23.98	43.54	54.00	-10.46	AV	PASS
	H	2400.00	54.64	30.22	4.85	23.98	53.25	74.00	-20.75	PK	PASS
	H	2400.00	44.02	30.22	4.85	23.98	42.63	54.00	-11.37	AV	PASS
	V	2390.00	53.32	30.22	4.85	23.98	51.93	74.00	-22.07	PK	PASS
	V	2390.00	44.18	30.22	4.85	23.98	42.79	54.00	-11.21	AV	PASS
	V	2400.00	54.00	30.22	4.85	23.98	52.61	74.00	-21.39	PK	PASS
	V	2400.00	44.93	30.22	4.85	23.98	43.54	54.00	-10.46	AV	PASS
	HighChannel 2462MHz										
	H	2483.50	54.34	30.22	4.85	23.98	52.95	74.00	-21.05	PK	PASS
	H	2483.50	44.66	30.22	4.85	23.98	43.27	54.00	-10.73	AV	PASS
	H	2500.00	53.60	30.22	4.85	23.98	52.21	74.00	-21.79	PK	PASS
	H	2500.00	44.34	30.22	4.85	23.98	42.95	54.00	-11.05	AV	PASS
	V	2483.50	53.07	30.22	4.85	23.98	51.68	74.00	-22.32	PK	PASS
	V	2483.50	44.62	30.22	4.85	23.98	43.23	54.00	-10.77	AV	PASS
	V	2500.00	53.56	30.22	4.85	23.98	52.17	74.00	-21.83	PK	PASS
	V	2500.00	44.50	30.22	4.85	23.98	43.11	54.00	-10.89	AV	PASS
SISO ANT B 802.11g	LowChannel 2412MHz										
	H	2390.00	53.65	30.22	4.85	23.98	52.26	74.00	-21.74	PK	PASS
	H	2390.00	44.77	30.22	4.85	23.98	43.38	54.00	-10.62	AV	PASS
	H	2400.00	54.72	30.22	4.85	23.98	53.33	74.00	-20.67	PK	PASS
	H	2400.00	44.00	30.22	4.85	23.98	42.61	54.00	-11.39	AV	PASS
	V	2390.00	54.87	30.22	4.85	23.98	53.48	74.00	-20.52	PK	PASS
	V	2390.00	44.46	30.22	4.85	23.98	43.07	54.00	-10.93	AV	PASS
	V	2400.00	54.28	30.22	4.85	23.98	52.89	74.00	-21.11	PK	PASS
	V	2400.00	44.26	30.22	4.85	23.98	42.87	54.00	-11.13	AV	PASS
	High Channel 2462MHz										
	H	2483.50	53.03	30.22	4.85	23.98	51.64	74.00	-22.36	PK	PASS
	H	2483.50	44.27	30.22	4.85	23.98	42.88	54.00	-11.12	AV	PASS
	H	2500.00	54.10	30.22	4.85	23.98	52.71	74.00	-21.29	PK	PASS
	H	2500.00	44.50	30.22	4.85	23.98	43.11	54.00	-10.89	AV	PASS
	V	2483.50	53.27	30.22	4.85	23.98	51.88	74.00	-22.12	PK	PASS
	V	2483.50	44.18	30.22	4.85	23.98	42.79	54.00	-11.21	AV	PASS
	V	2500.00	54.99	30.22	4.85	23.98	53.60	74.00	-20.40	PK	PASS
	V	2500.00	44.31	30.22	4.85	23.98	42.92	54.00	-11.08	AV	PASS

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit.

	Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission level (dBuV/m)	Limit (dBu V/m)	Margin (dB)	Dete ctor Type	Result
SISO ANT A 802.11n20	LowChannel 2412MHz										
	H	2390.00	53.56	30.22	4.85	23.98	52.17	74.00	-21.83	PK	PASS
	H	2390.00	44.88	30.22	4.85	23.98	43.49	54.00	-10.51	AV	PASS
	H	2400.00	54.32	30.22	4.85	23.98	52.93	74.00	-21.07	PK	PASS
	H	2400.00	44.80	30.22	4.85	23.98	43.41	54.00	-10.59	AV	PASS
	V	2390.00	53.46	30.22	4.85	23.98	52.07	74.00	-21.93	PK	PASS
	V	2390.00	44.20	30.22	4.85	23.98	42.81	54.00	-11.19	AV	PASS
	V	2400.00	54.15	30.22	4.85	23.98	52.76	74.00	-21.24	PK	PASS
	V	2400.00	44.35	30.22	4.85	23.98	42.96	54.00	-11.04	AV	PASS
	HighChannel 2462MHz										
	H	2483.50	53.46	30.22	4.85	23.98	52.07	74.00	-21.93	PK	PASS
	H	2483.50	44.63	30.22	4.85	23.98	43.24	54.00	-10.76	AV	PASS
	H	2500.00	53.58	30.22	4.85	23.98	52.19	74.00	-21.81	PK	PASS
	H	2500.00	44.20	30.22	4.85	23.98	42.81	54.00	-11.19	AV	PASS
	V	2483.50	54.42	30.22	4.85	23.98	53.03	74.00	-20.97	PK	PASS
	V	2483.50	44.02	30.22	4.85	23.98	42.63	54.00	-11.37	AV	PASS
	V	2500.00	53.37	30.22	4.85	23.98	51.98	74.00	-22.02	PK	PASS
	V	2500.00	44.88	30.22	4.85	23.98	43.49	54.00	-10.51	AV	PASS
SISO ANT A 802.11n40	LowChannel 2422MHz										
	H	2390.00	54.79	30.22	4.85	23.98	53.40	74.00	-20.60	PK	PASS
	H	2390.00	44.04	30.22	4.85	23.98	42.65	54.00	-11.35	AV	PASS
	H	2400.00	54.55	30.22	4.85	23.98	53.16	74.00	-20.84	PK	PASS
	H	2400.00	44.28	30.22	4.85	23.98	42.89	54.00	-11.11	AV	PASS
	V	2390.00	54.04	30.22	4.85	23.98	52.65	74.00	-21.35	PK	PASS
	V	2390.00	44.33	30.22	4.85	23.98	42.94	54.00	-11.06	AV	PASS
	V	2400.00	54.12	30.22	4.85	23.98	52.73	74.00	-21.27	PK	PASS
	V	2400.00	44.24	30.22	4.85	23.98	42.85	54.00	-11.15	AV	PASS
	High Channel 2452MHz										
	H	2483.50	54.36	30.22	4.85	23.98	52.97	74.00	-21.03	PK	PASS
	H	2483.50	44.65	30.22	4.85	23.98	43.26	54.00	-10.74	AV	PASS
	H	2500.00	53.52	30.22	4.85	23.98	52.13	74.00	-21.87	PK	PASS
	H	2500.00	44.89	30.22	4.85	23.98	43.50	54.00	-10.50	AV	PASS
	V	2483.50	54.71	30.22	4.85	23.98	53.32	74.00	-20.68	PK	PASS
	V	2483.50	44.20	30.22	4.85	23.98	42.81	54.00	-11.19	AV	PASS
	V	2500.00	54.84	30.22	4.85	23.98	53.45	74.00	-20.55	PK	PASS
	V	2500.00	44.69	30.22	4.85	23.98	43.30	54.00	-10.70	AV	PASS

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit.
2. Both ANT A and ANT B passed the test, the test data shows only the worst case SISO ANT A.

	Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission level (dBuV/m)	Limit (dBu V/m)	Margin (dB)	Dete ctor Type	Result
MIMO ANT A+B 802.11n20	LowChannel 2412MHz										
	H	2390.00	54.18	30.22	4.85	23.98	52.79	74.00	-21.21	PK	PASS
	H	2390.00	44.71	30.22	4.85	23.98	43.32	54.00	-10.68	AV	PASS
	H	2400.00	54.31	30.22	4.85	23.98	52.92	74.00	-21.08	PK	PASS
	H	2400.00	44.59	30.22	4.85	23.98	43.20	54.00	-10.80	AV	PASS
	V	2390.00	54.38	30.22	4.85	23.98	52.99	74.00	-21.01	PK	PASS
	V	2390.00	44.10	30.22	4.85	23.98	42.71	54.00	-11.29	AV	PASS
	V	2400.00	54.88	30.22	4.85	23.98	53.49	74.00	-20.51	PK	PASS
	V	2400.00	44.18	30.22	4.85	23.98	42.79	54.00	-11.21	AV	PASS
	HighChannel 2462MHz										
	H	2483.50	54.34	30.22	4.85	23.98	52.95	74.00	-21.05	PK	PASS
	H	2483.50	44.97	30.22	4.85	23.98	43.58	54.00	-10.42	AV	PASS
	H	2500.00	54.13	30.22	4.85	23.98	52.74	74.00	-21.26	PK	PASS
	H	2500.00	44.62	30.22	4.85	23.98	43.23	54.00	-10.77	AV	PASS
	V	2483.50	53.76	30.22	4.85	23.98	52.37	74.00	-21.63	PK	PASS
	V	2483.50	44.27	30.22	4.85	23.98	42.88	54.00	-11.12	AV	PASS
	V	2500.00	54.57	30.22	4.85	23.98	53.18	74.00	-20.82	PK	PASS
	V	2500.00	44.90	30.22	4.85	23.98	43.51	54.00	-10.49	AV	PASS
MIMO ANT A+B 802.11n40	LowChannel 2422MHz										
	H	2390.00	53.54	30.22	4.85	23.98	52.15	74.00	-21.85	PK	PASS
	H	2390.00	44.23	30.22	4.85	23.98	42.84	54.00	-11.16	AV	PASS
	H	2400.00	53.65	30.22	4.85	23.98	52.26	74.00	-21.74	PK	PASS
	H	2400.00	44.47	30.22	4.85	23.98	43.08	54.00	-10.92	AV	PASS
	V	2390.00	53.62	30.22	4.85	23.98	52.23	74.00	-21.77	PK	PASS
	V	2390.00	44.47	30.22	4.85	23.98	43.08	54.00	-10.92	AV	PASS
	V	2400.00	54.55	30.22	4.85	23.98	53.16	74.00	-20.84	PK	PASS
	V	2400.00	44.86	30.22	4.85	23.98	43.47	54.00	-10.53	AV	PASS
	High Channel 2452MHz										
	H	2483.50	54.03	30.22	4.85	23.98	52.64	74.00	-21.36	PK	PASS
	H	2483.50	44.78	30.22	4.85	23.98	43.39	54.00	-10.61	AV	PASS
	H	2500.00	54.02	30.22	4.85	23.98	52.63	74.00	-21.37	PK	PASS
	H	2500.00	44.66	30.22	4.85	23.98	43.27	54.00	-10.73	AV	PASS
	V	2483.50	54.42	30.22	4.85	23.98	53.03	74.00	-20.97	PK	PASS
	V	2483.50	44.78	30.22	4.85	23.98	43.39	54.00	-10.61	AV	PASS
	V	2500.00	53.27	30.22	4.85	23.98	51.88	74.00	-22.12	PK	PASS
	V	2500.00	44.60	30.22	4.85	23.98	43.21	54.00	-10.79	AV	PASS

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit.

6.POWER SPECTRAL DENSITY TEST

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	ANSI C63.10:2013 and KDB558074 D01DTS Meas Guidancev05r02

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247	Power Spectral Density	8dBm/3kHz	2400-2483.5	PASS

6.2 TEST PROCEDURE

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to: 3 kHz ≤ RBW ≤ 100 kHz.
4. Set the VBW ≥ 3 x RBW.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP

6.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

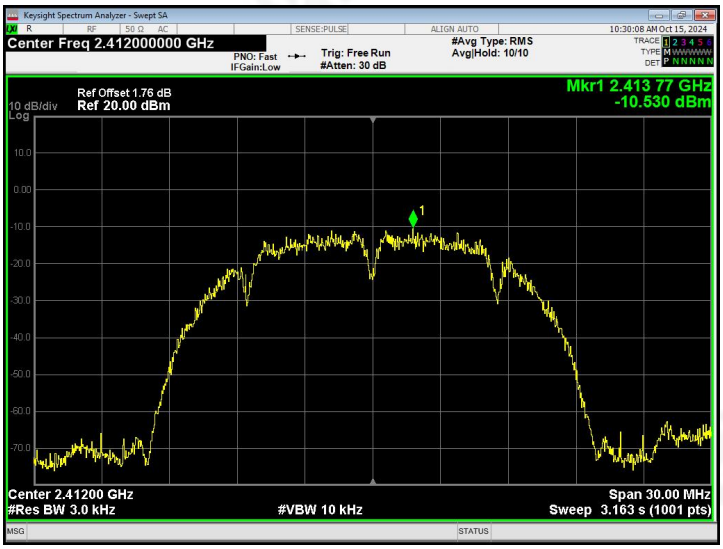
6.6 TEST RESULT

Temperature :	26℃	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	DC 12V

Test Mode	Antenna	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
802.11b	SISO ANT A	2412	-10.530	8	PASS
		2437	-10.401		
		2462	-10.255		
	SISO ANT B	2412	-9.524	8	PASS
		2437	-10.797		
		2462	-10.355		

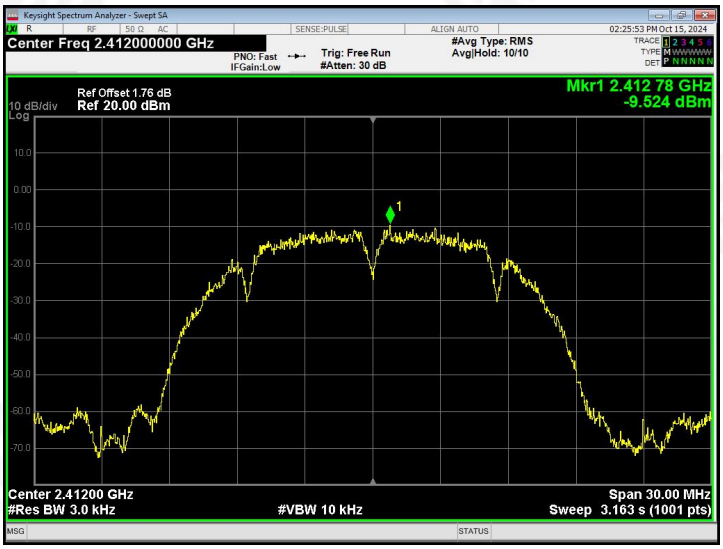
SISO ANT A - 802.11b

CH01

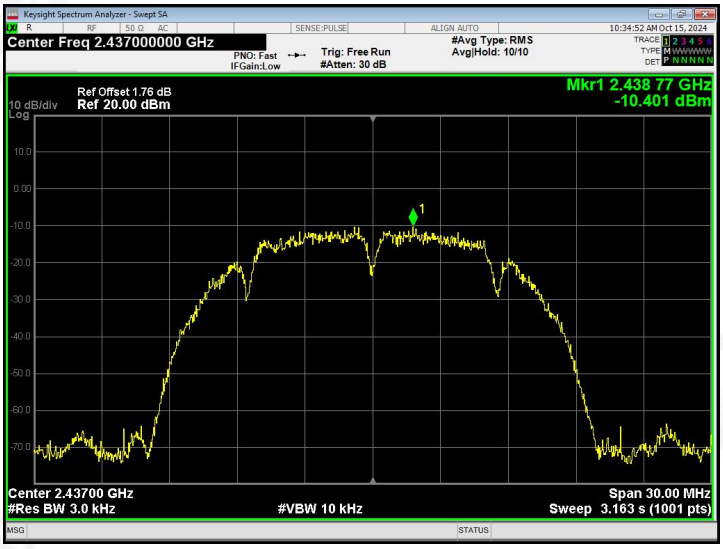


SISO ANT B - 802.11b

CH01



CH06



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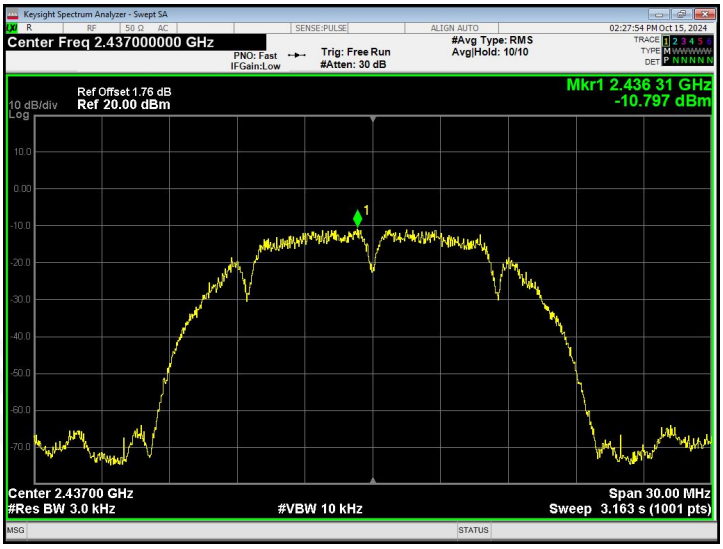

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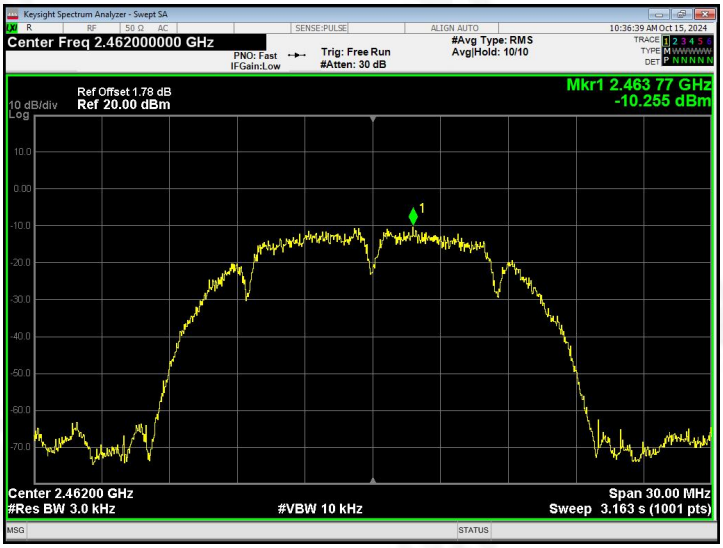

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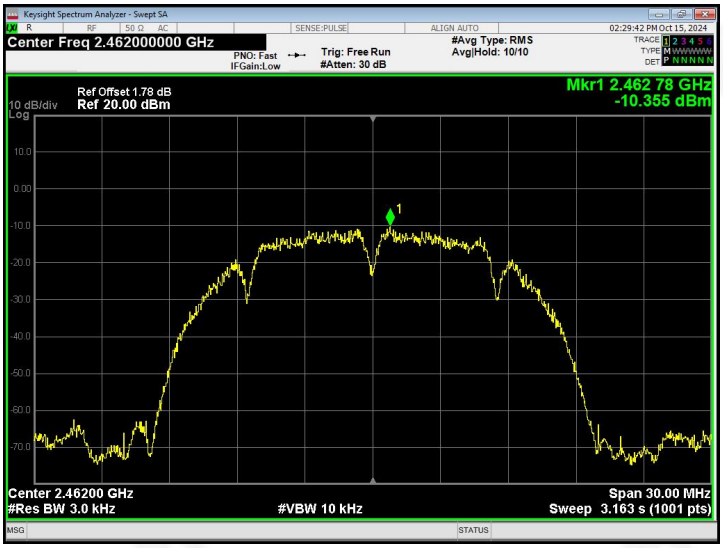
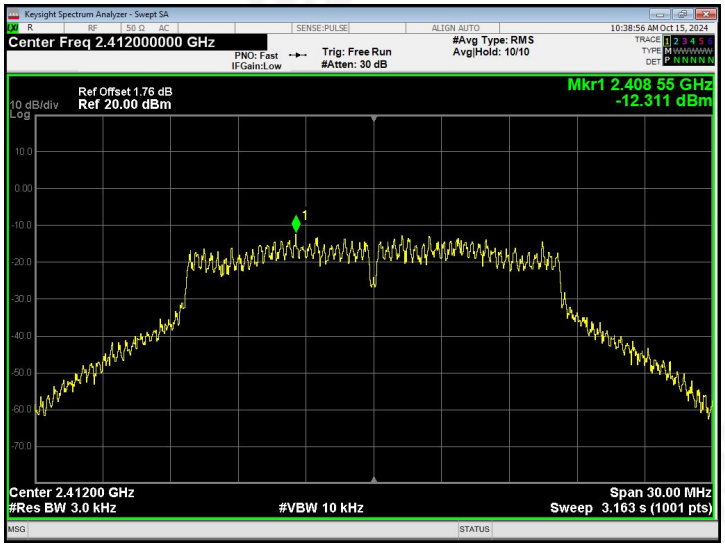


Temperature：	26℃	Relative Humidity：	54%
Pressure：	101kPa	Test Voltage：	DC 12V

Test Mode	Antenna	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
802.11g	SISO ANT A	2412	-12.311	8	PASS
		2437	-12.592		
		2462	-11.499		
	SISO ANT B	2412	-9.647	8	PASS
		2437	-11.884		
		2462	-11.662		

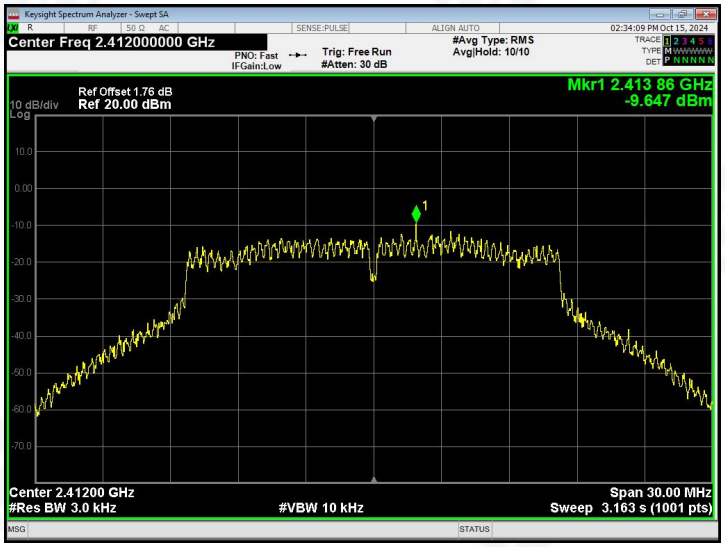
SISO ANT A - 802.11g

CH01

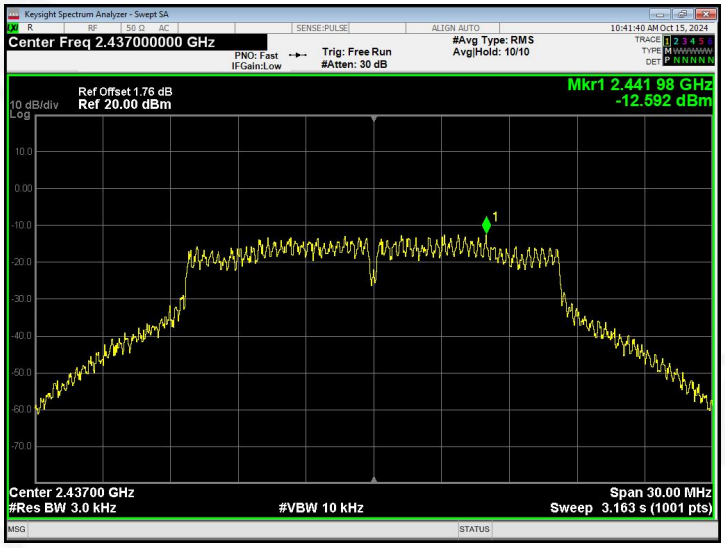


SISO ANT B - 802.11g

CH01



CH06



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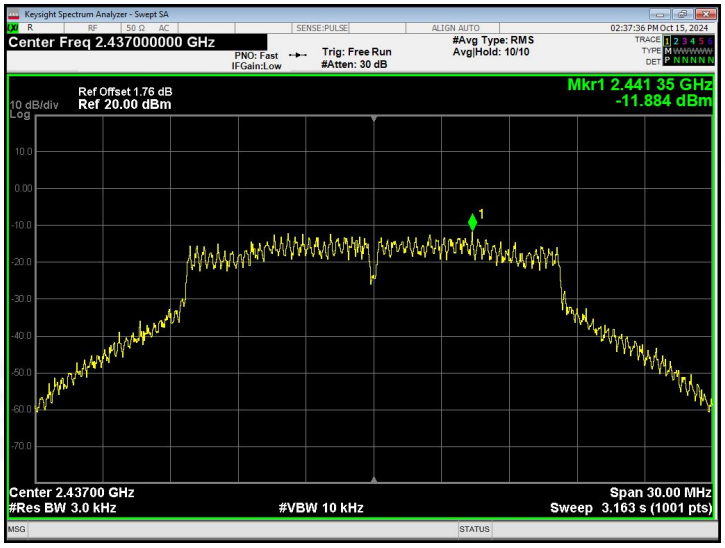

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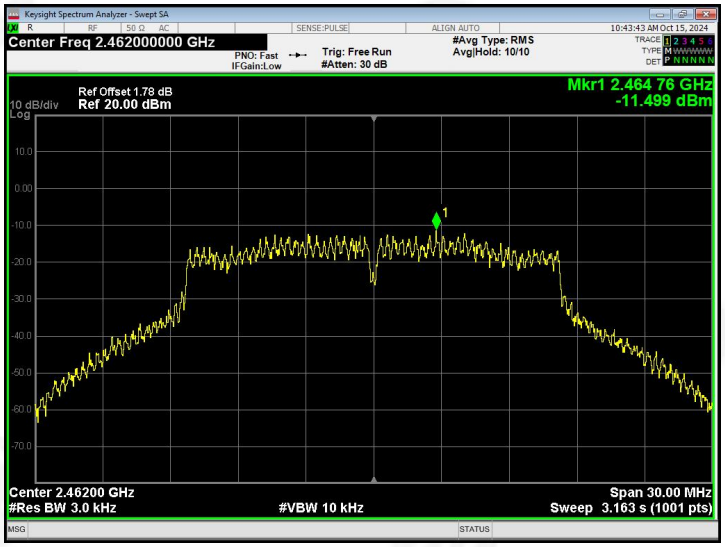

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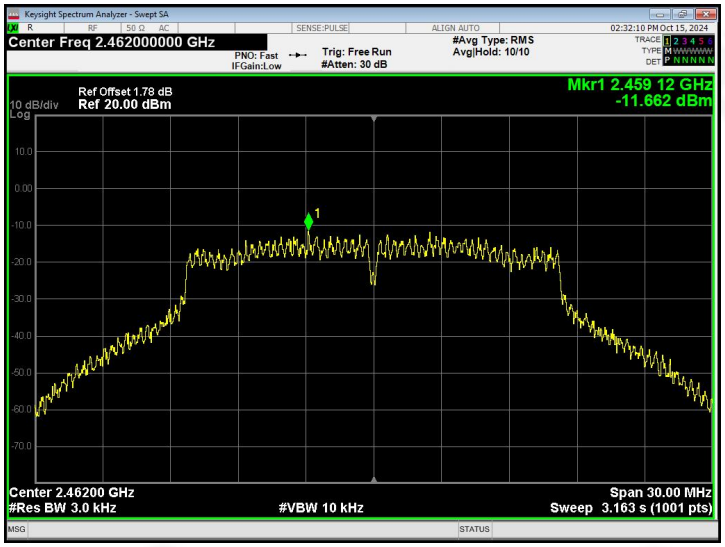
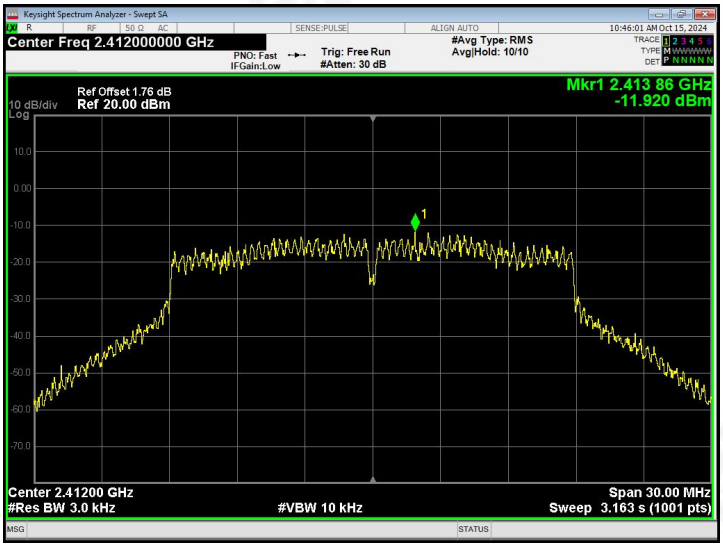


Temperature：	26℃	Relative Humidity：	54%
Pressure：	101kPa	Test Voltage：	DC 12V

Test Mode	Antenna	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
802.11n20	SISO ANT A	2412	-11.920	8	PASS
		2437	-11.974		
		2462	-11.742		
	SISO ANT B	2412	-10.816	8	PASS
		2437	-10.572		
		2462	-12.018		
	MIMO ANT A+B	2412	-8.323	8	PASS
		2437	-8.206		
		2462	-8.868		

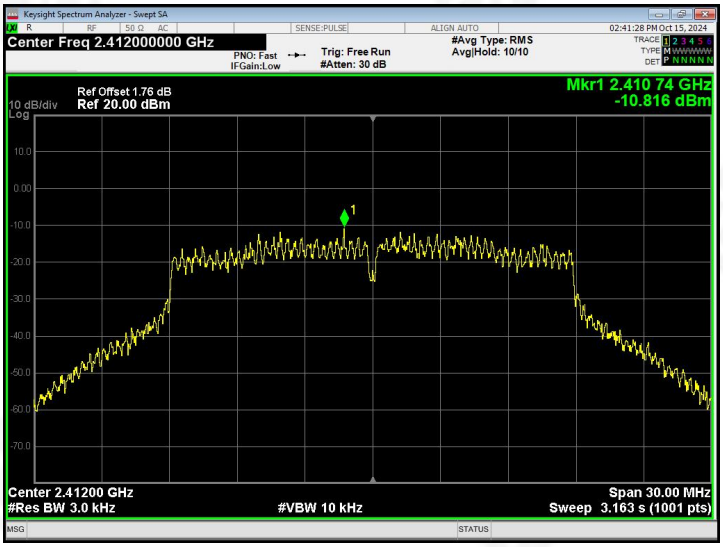
SISO ANT A - 802.11n20

CH01



SISO ANT B - 802.11n20

CH01



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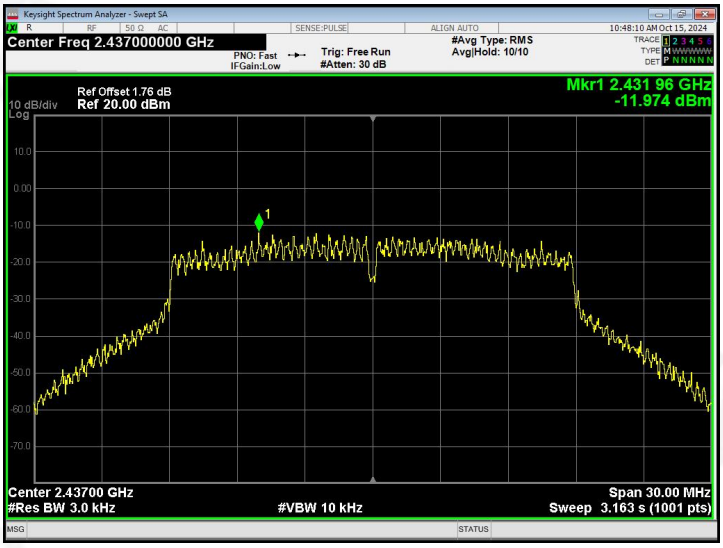

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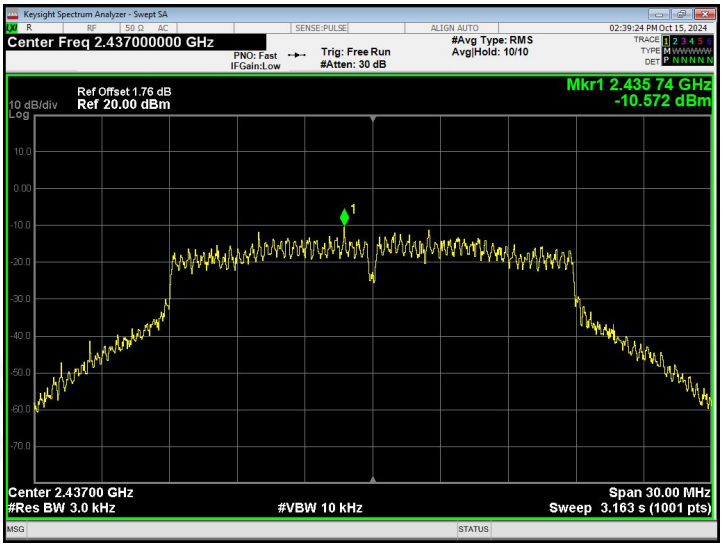

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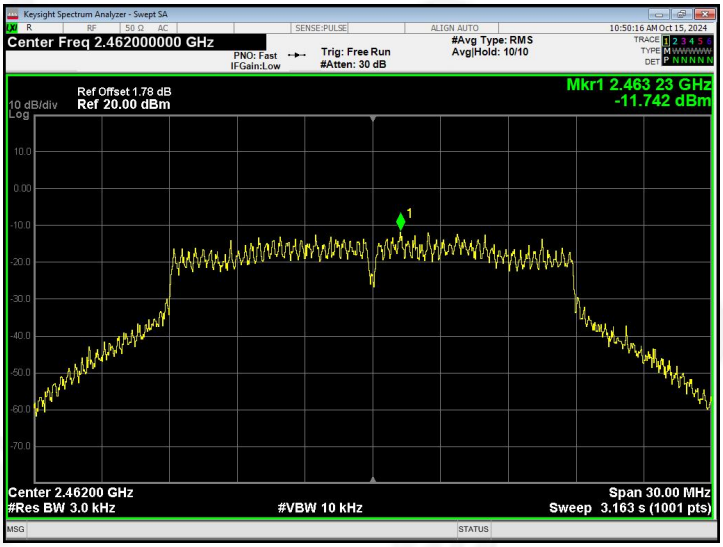

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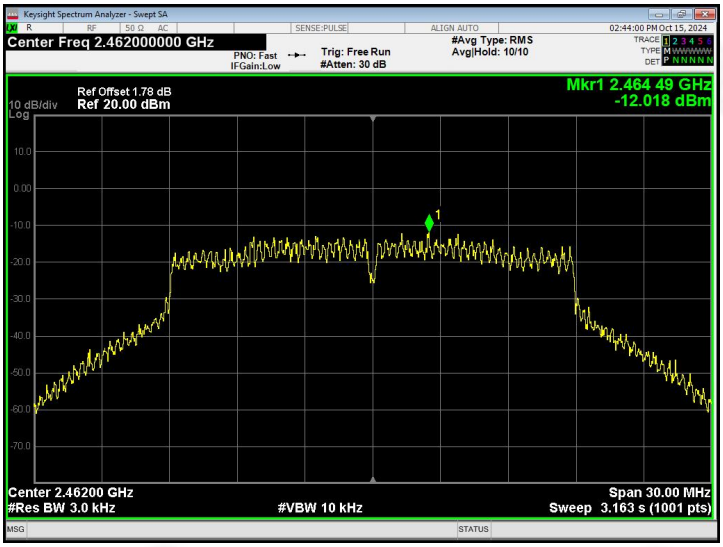
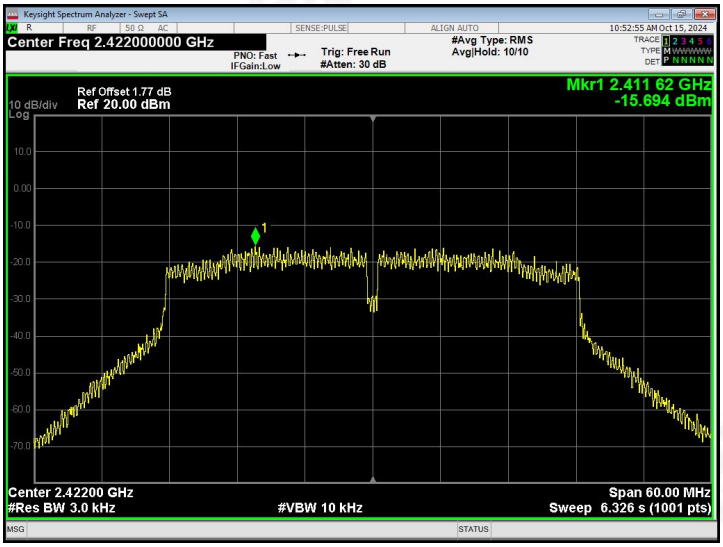


Temperature：	26℃	Relative Humidity：	54%
Pressure：	101kPa	Test Voltage：	DC 12V

Test Mode	Antenna	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
802.11n40	SISO ANT A	2422	-15.694	8	PASS
		2437	-13.948		
		2452	-14.799		
	SISO ANT B	2422	-15.387	8	PASS
		2437	-13.342		
		2452	-14.352		
	MIMO ANT A+B	2422	-12.527	8	PASS
		2437	-10.624		
		2452	-11.559		

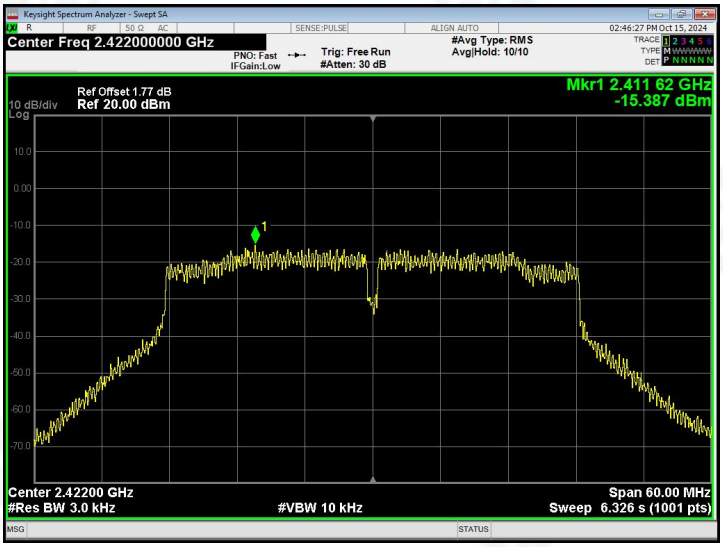
SISO ANT A - 802.11n40

CH03



SISO ANT A - 802.11n40

CH03



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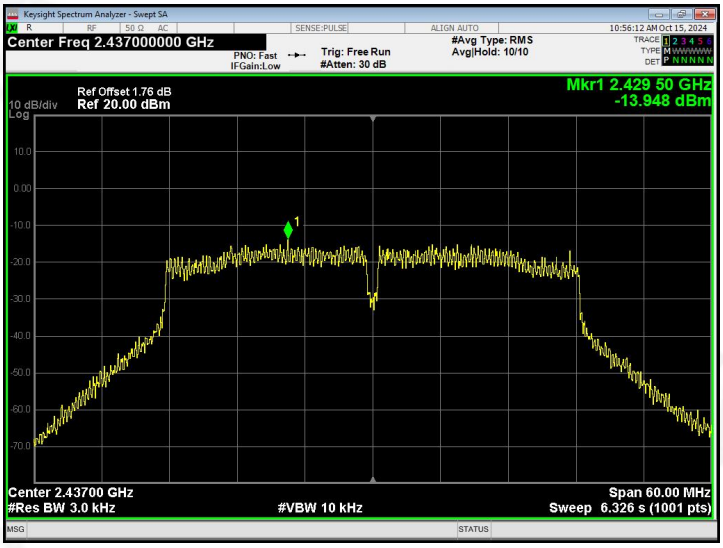

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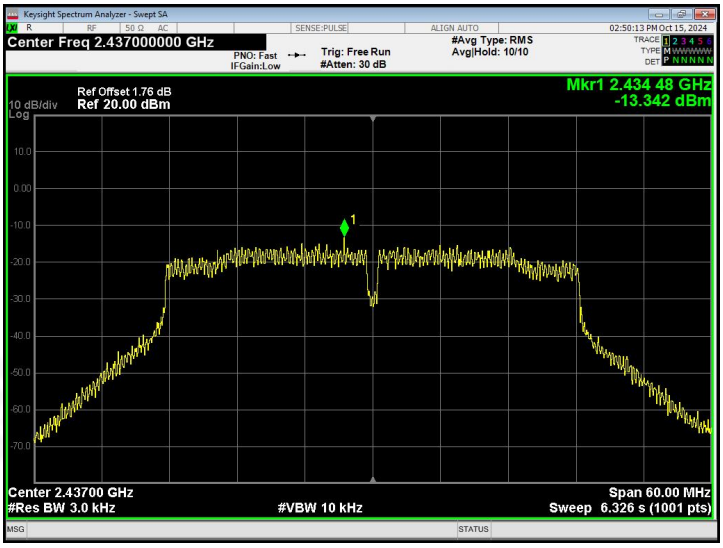
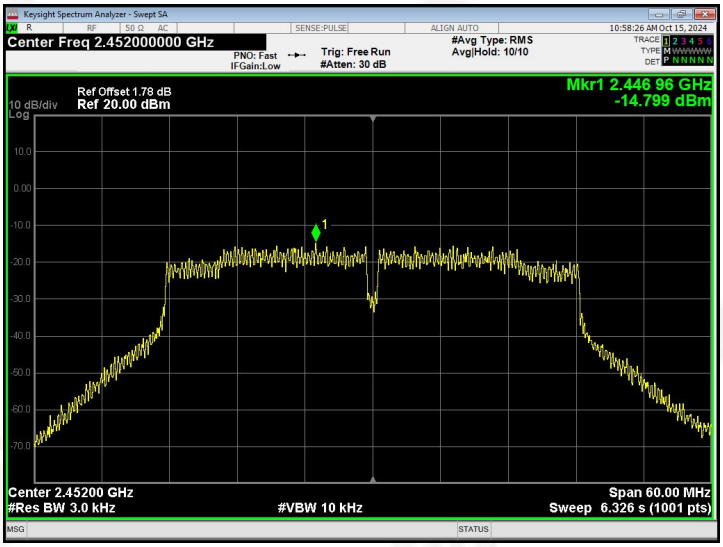


CH09



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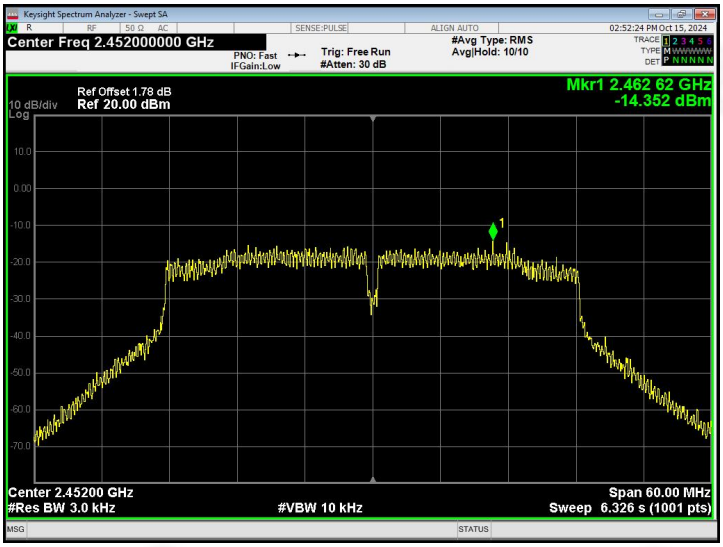


7. 6DB BANDWIDTH

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	ANSI C63.10:2013 and KDB558074 D01DTS Meas Guidancev05r02

7.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS

7.2 TEST PROCEDURE

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) ≥ 3 xRBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP

7.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

7.6 TEST RESULT

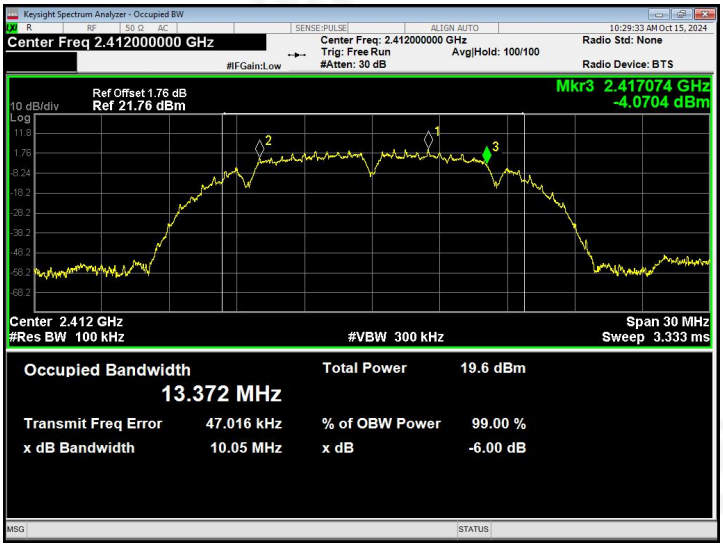
Temperature :	26℃	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	DC 12V

Test Mode	Antenna	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
802.11b	SISO ANT A	2412	10.05	>500	PASS
		2437	10.07		
		2462	10.04		
	SISO ANT B	2412	10.10	>500	PASS
		2437	10.12		
		2462	10.12		
802.11g	SISO ANT A	2412	15.10	>500	PASS
		2437	15.09		
		2462	15.08		
	SISO ANT B	2412	15.06	>500	PASS
		2437	15.00		
		2462	15.09		

6dB Bandwidth - 802.11b

SISO ANT A

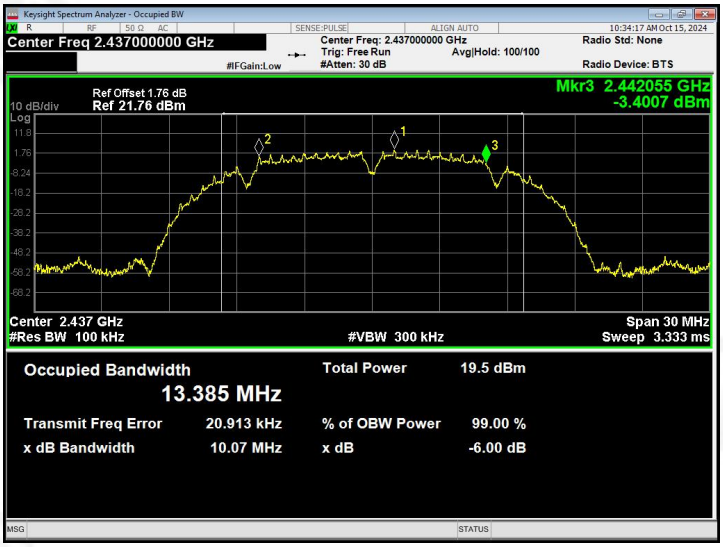
Lowest channel



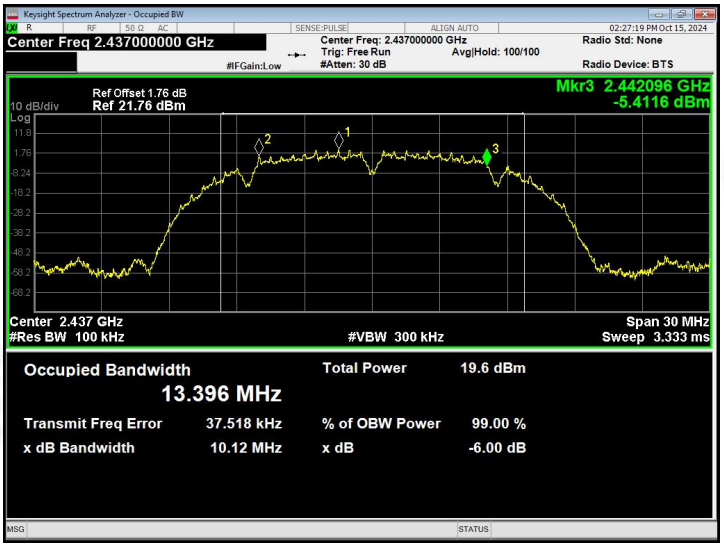
SISO ANT B

Lowest channel

Middle channel

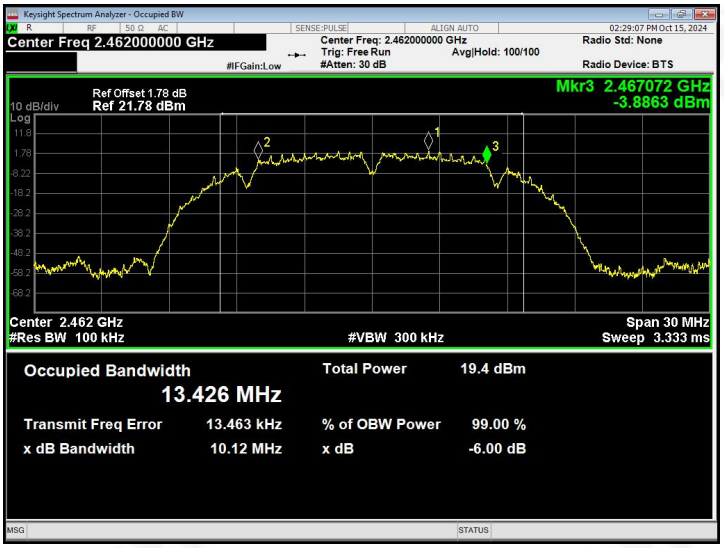


Middle channel



Highest channel

Highest channel

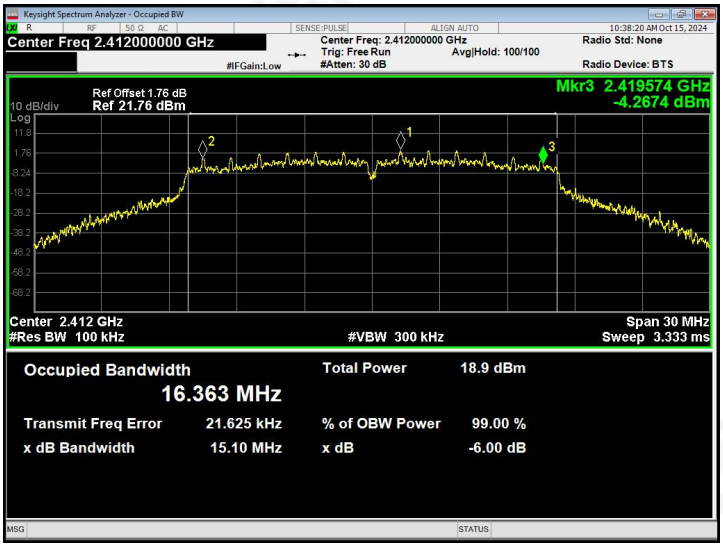


6dB Bandwidth - 802.11g

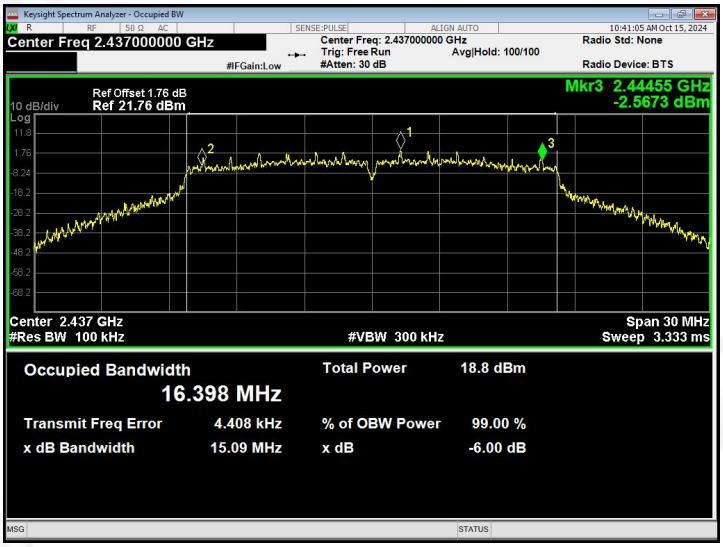
SISO ANT A

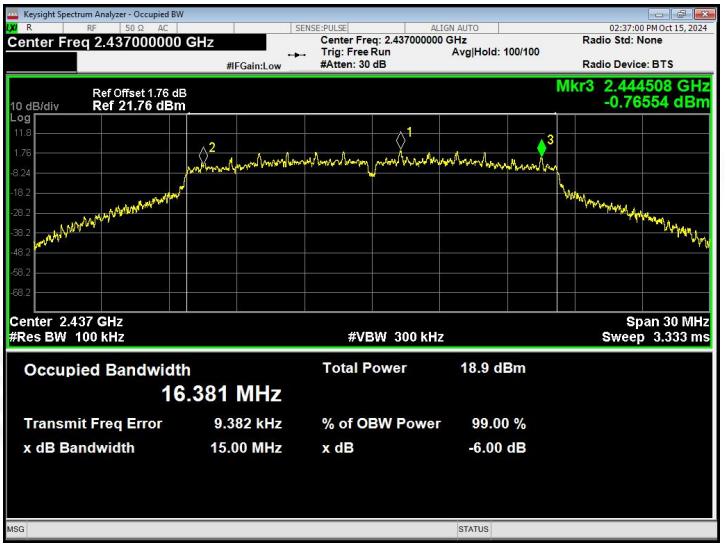
SISO ANT B

Lowest channel

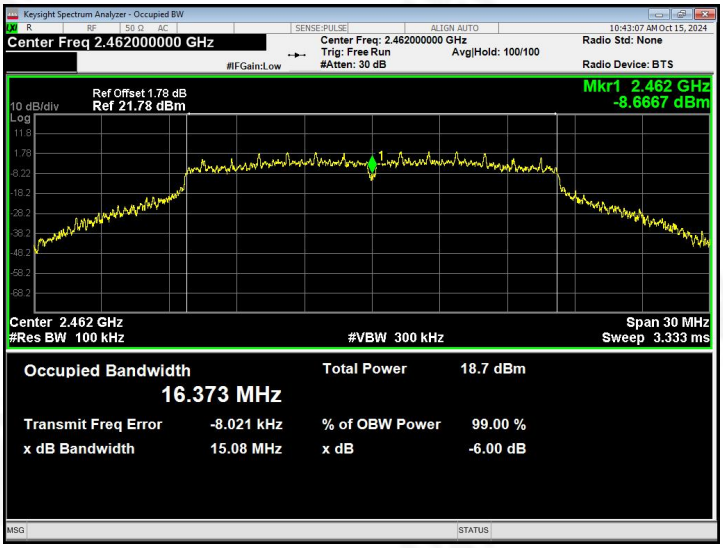


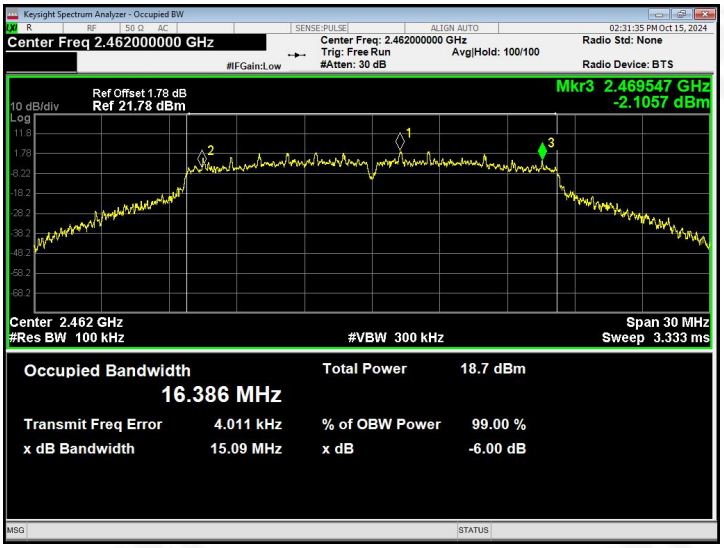
Middle channel





Highest channel





Temperature :	26℃	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	DC 12V

Test Mode	Antenna	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
802.11n20	SISO ANT A	2412	15.12	>500	PASS
		2437	15.08		
		2462	15.13		
	SISO ANT B	2412	15.04	>500	PASS
		2437	15.12		
		2462	15.04		
	MIMO ANT A	2412	15.12	>500	PASS
		2437	15.12		
		2462	15.00		
	MIMO ANT B	2412	15.10	>500	PASS
		2437	15.11		
		2462	15.12		
802.11n40	SISO ANT A	2422	35.02	>500	PASS
		2437	33.83		
		2452	35.09		
	SISO ANT B	2422	35.06	>500	PASS
		2437	33.84		
		2452	35.08		
	MIMO ANT A	2422	33.80	>500	PASS
		2437	35.08		
		2452	35.05		
	MIMO ANT B	2422	35.02	>500	PASS
		2437	35.08		
		2452	35.03		