



FCC TEST REPORT

FCC ID:2A5AK-M7

Applicant: Shenzhen Xiaowei Intelligent Technology Co., Ltd
Address: 203,building a,Yintian wenle Industrial ZoneGongle community,Xixiang street Shenzhen China
Manufacturer: Shenzhen Xiaowei Intelligent Technology Co., Ltd
Address: 203,building a,Yintian wenle Industrial ZoneGongle community,Xixiang street Shenzhen China
EUT: Surveillance Camera (M7)
Trade Mark: N/A
Model Number: M7
Date of Receipt: Jul. 04, 2025
Test Date: Jul. 04, 2025 to Jul. 11, 2025
Date of Report: Jul. 11, 2025
Prepared By: Shenzhen DL Testing Technology Co., Ltd.
Address: 101-201, Comprehensive Building, Tongzhou Electronics Longgang Factory Area, No.1 Baolong Fifth Road, Baolong Community, Baolong Street, Longgang District, Shenzhen, China
Applicable Standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247
ANSI C63.10:2013
Test Result: Pass
Report Number: DLE-250726025R

Prepared by(Engineer): Ken Tan
Reviewer(Supervisor): Jack Bu
Approved(Manager): Jade Yang



This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of Shenzhen DL Testing Technology Co., Ltd.



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**1. VERSION**

Report No.	Version	Description	Approved
DLE-250726025R	Rev.01	Initial issue of report	Jul. 11, 2025



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 Occupied 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 DL Testing Technology Co., Ltd.

Add. : 101-201, Comprehensive Building, Tongzhou Electronics Longgang Factory Area, No.1 Baolong Fifth Road, Baolong Community, Baolong Street, Longgang District, Shenzhen, China

FCC Test Firm Registration Number: 854456

Designation Number: CN1307

IC Registered No.: 27485

CAB identifier: CN0118

2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$ · 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 chamber Radiated spurious emission(9KHz-30MHz)	U=4.5dB
2	3m chamber 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°C



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Product Name:	Surveillance Camera (M7)
Model No.:	M7
Serial No.:	N/A
Model Different.:	N/A
Hardware Version:	H1.0
Software Version:	S1.0
Sample(s) Status:	Engineer sample
Frequency Range:	2412-2462MHz for 802.11 b/g/n20 2422-2452MHz for 802.11 n40
Channel numbers:	802.11b/g/n (20M): 11 CH 802.11n (40M): 7 CH
Channel separation:	5MHz
Modulation technology:	802.11b: Direct Sequence Spread Spectrum(DSSS) 802.11g/n: 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 802.11n: MCS0-MCS7
Antenna Type:	FPC Antenna
Antenna Gain:	2.06dBi
Power Supply:	Input : 5V1A Battery : DC 3.7V, 2400mAh, 8.8Wh



Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Test channel	Frequency (MHz)	
	802.11b/g/n (20M)	802.11n (40M)
Lowest channel	2412MHz	2422MHz
Middle channel	2437MHz	2437MHz
Highest channel	2462MHz	2452MHz

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.	

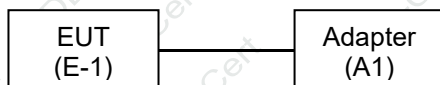
We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:				
Pre-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.				
Mode	802.11b	802.11g	802.11n20	802.11n40
Data rate	1Mbps	6Mbps	MCS0(HT0)	MCS0(HT0)

Test Software	CMD
Power level setup	Default

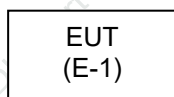


3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

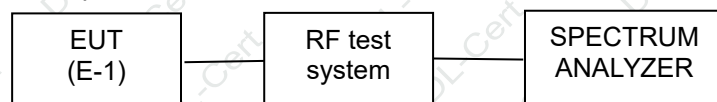
Radiated Emission



Radiated Emission



Conducted Spurious



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	Surveillance Camera (M7)	N/A	SGW03WF	N/A	EUT
A1	AC/DC Adapter	SANXING	SX-53250	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.



3.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation test, Band-edge test and 6db bandwidth test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	Agilent	E4408B	MY50140780	Nov. 01, 2024	Oct. 31, 2025
2	Test Receiver (9kHz-7GHz)	R&S	ESRP7	101393	Nov. 01, 2024	Oct. 31, 2025
3	Bilog Antenna (30MHz-1GHz)	R&S	VULB9162	00306	Nov. 01, 2024	Oct. 31, 2025
4	Horn Antenna (1GHz-18GHz)	Schwarzbeck	BBHA9120D	02139	Nov. 01, 2024	Oct. 31, 2025
5	Horn Antenna (18GHz-40GHz)	A.H. Systems	SAS-574	588	Nov. 01, 2024	Oct. 31, 2025
6	Amplifier (9KHz-6GHz)	Schwarzbeck	BBV9743B	00153	Nov. 01, 2024	Oct. 31, 2025
7	Amplifier (1GHz-18GHz)	EMEC	EM01G8GA	00270	Nov. 01, 2024	Oct. 31, 2025
8	Amplifier (18GHz-40GHz)	Quanjuda	DLE-161	97	Nov. 01, 2024	Oct. 31, 2025
9	Loop Antenna (9KHz-30MHz)	Schwarzbeck	FMZB1519B	00014	Nov. 01, 2024	Oct. 31, 2025
10	RF cables1 (9kHz-1GHz)	ChengYu	966	004	Nov. 01, 2024	Oct. 31, 2025
11	RF cables2 (1GHz-40GHz)	ChengYu	966	003	Nov. 01, 2024	Oct. 31, 2025
12	Antenna connector	Florida RF Labs	N/A	RF 01#	Nov. 01, 2024	Oct. 31, 2025
13	Power probe	KEYSIGHT	U2021XA	MY55210018	Nov. 01, 2024	Oct. 31, 2025
14	Signal Analyzer 9kHz-26.5GHz	Agilent	N9020A	MY55370280	Nov. 01, 2024	Oct. 31, 2025
15	Test Receiver 20kHz-40GHz	R&S	ESU 40	100376	Nov. 01, 2024	Oct. 31, 2025
16	D.C. Power Supply	LongWei	PS-305D	010964729	Nov. 01, 2024	Oct. 31, 2025
17	Power Meter	KEYSIGHT	N1912AP	926431	Sep. 29, 2024	Sep. 28, 2025

Conduction Test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	843 Shielded Room	ChengYu	843 Room	843	Nov. 01, 2024	Oct. 31, 2025
2	EMI Receiver	R&S	ESR	101421	Nov. 01, 2024	Oct. 31, 2025
3	LISN	R&S	ENV216	102417	Nov. 01, 2024	Oct. 31, 2025
4	843 Cable 1#	ChengYu	CE Cable	001	Nov. 01, 2024	Oct. 31, 2025

Other

Item	Name	Manufacturer	Model	Software version
1	EMC Conduction Test System	FALA	EZ EMC	EMC-CON 3A1.1
2	EMC radiation test system	FALA	EZ EMC	FA-03A2
3	RF test system	MAIWEI	MTS8310	2.0.0.0
4	RF communication test system	MAIWEI	MTS8200	2.0.0.0



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.

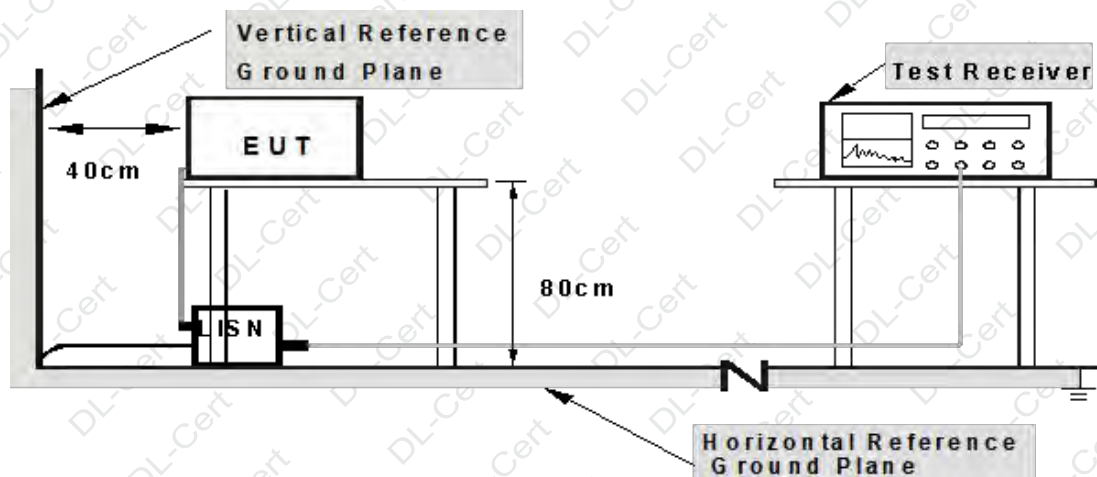
4.1.2 TEST PROCEDURE

- The EUT was placed 0.8 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.
- 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.
- 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.
- LISN at least 80 cm from nearest part of EUT chassis.
- 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

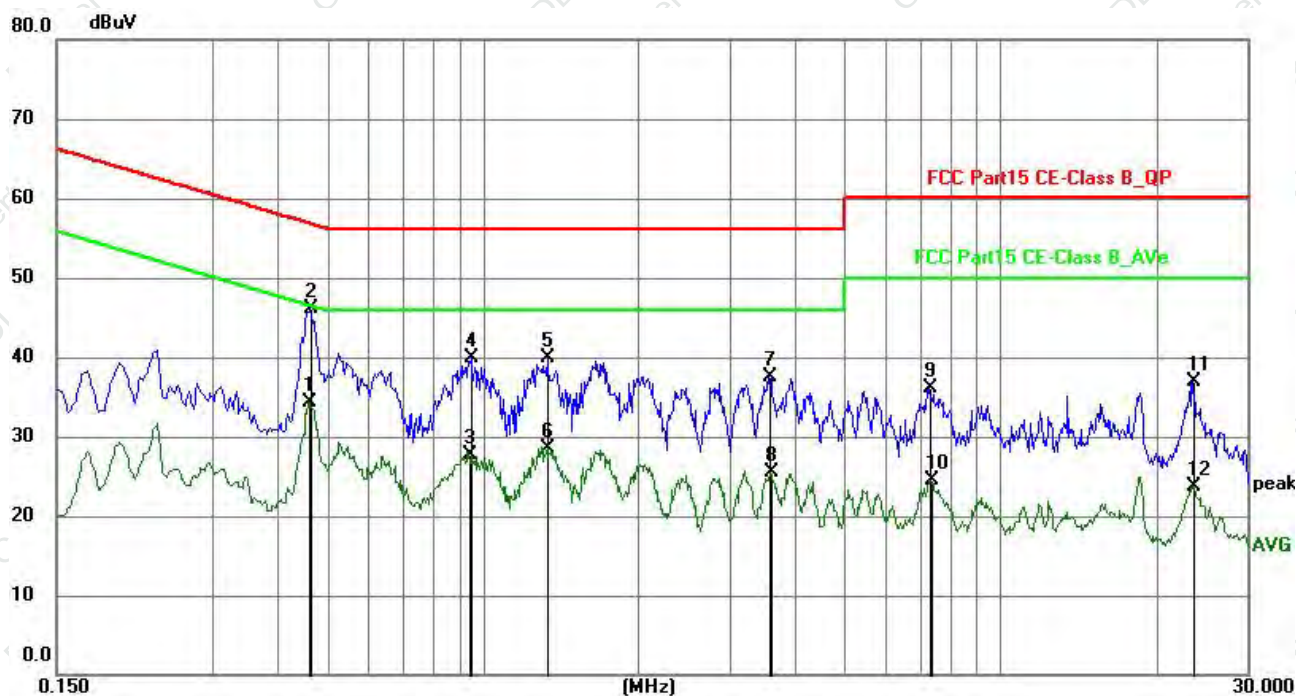
4.1.5 EUT OPERATING CONDITIONS

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:	TX GFSK - 2402MHz



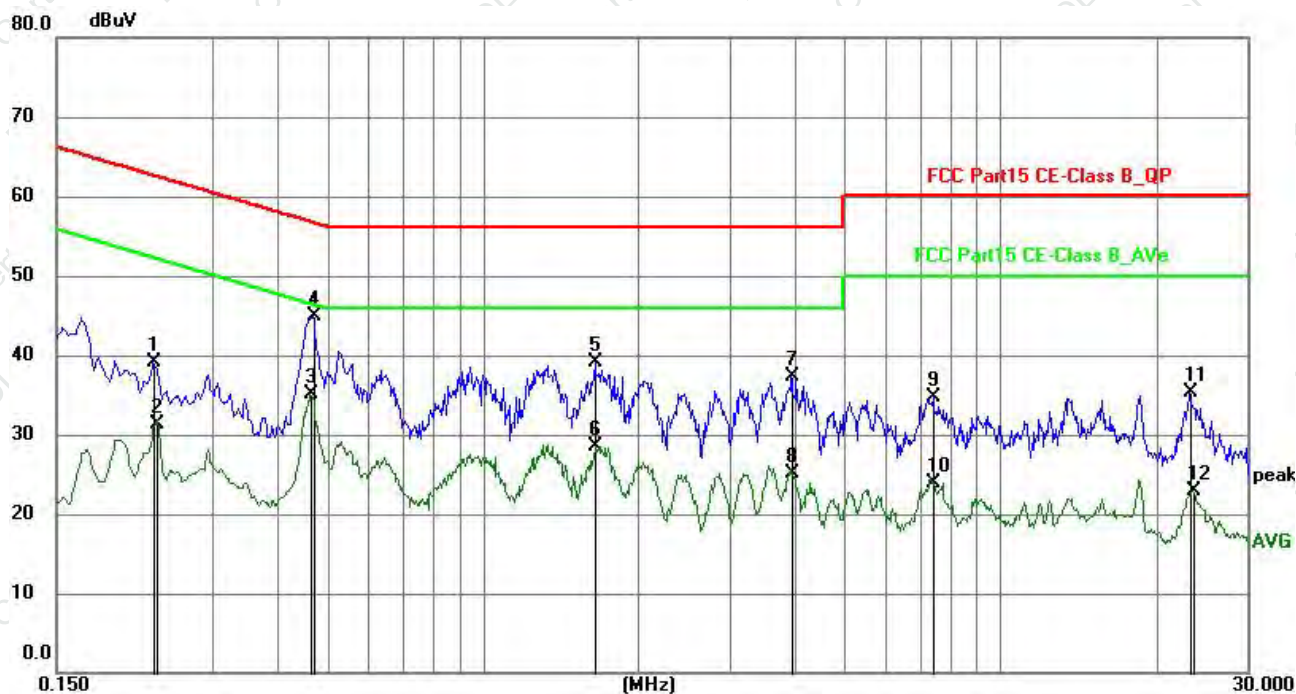
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.4605	14.07	20.31	34.38	46.68	-12.30	AVG	P	
2	0.4650	25.78	20.31	46.09	56.60	-10.51	QP	P	
3	0.9419	7.39	20.30	27.69	46.00	-18.31	AVG	P	
4	0.9509	19.59	20.30	39.89	56.00	-16.11	QP	P	
5	1.3334	19.53	20.31	39.84	56.00	-16.16	QP	P	
6	1.3334	8.25	20.31	28.56	46.00	-17.44	AVG	P	
7	3.5700	17.08	20.34	37.42	56.00	-18.58	QP	P	
8	3.5880	5.18	20.34	25.52	46.00	-20.48	AVG	P	
9	7.3230	15.67	20.39	36.06	60.00	-23.94	QP	P	
10	7.3365	4.17	20.39	24.56	50.00	-25.44	AVG	P	
11	23.5860	16.25	20.60	36.85	60.00	-23.15	QP	P	
12	23.5860	3.12	20.60	23.72	50.00	-26.28	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 = Lism factor+ Cable loss factor + limiter factor.
5. Margin = Measurement Level-Limit.
6. The test data shows only the worst case TX GFSK - 2402MHz.



Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	N
Test Voltage:	AC 120V/60Hz	Test Mode:	TX GFSK - 2402MHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.2310	18.75	20.36	39.11	62.41	-23.30	QP	P	
2	0.2329	11.03	20.36	31.39	52.35	-20.96	AVG	P	
3	0.4650	14.73	20.31	35.04	46.60	-11.56	AVG	P	
4	0.4695	24.57	20.31	44.88	56.52	-11.64	QP	P	
5	1.6485	18.79	20.30	39.09	56.00	-16.91	QP	P	
6	1.6485	8.16	20.30	28.46	46.00	-17.54	AVG	P	
7	3.9525	16.94	20.33	37.27	56.00	-18.73	QP	P	
8	3.9525	4.86	20.33	25.19	46.00	-20.81	AVG	P	
9	7.4220	14.35	20.40	34.75	60.00	-25.25	QP	P	
10	7.4220	3.59	20.40	23.99	50.00	-26.01	AVG	P	
11	23.1540	14.66	20.62	35.28	60.00	-24.72	QP	P	
12	23.5815	2.34	20.63	22.97	50.00	-27.03	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 = Lism factor+ Cable loss factor + limiter factor.
5. Margin = Measurement Level-Limit.
6. The test data shows only the worst case TX GFSK - 2402MHz.



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 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.



- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 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 be stopped 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 reported in 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 and change 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:

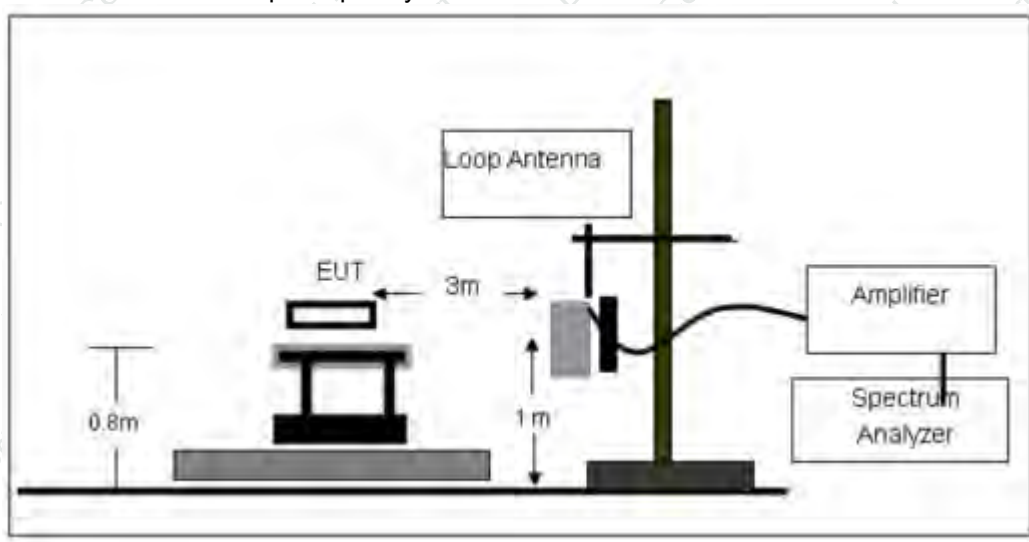
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

4.2.3 DEVIATION FROM TEST STANDARD

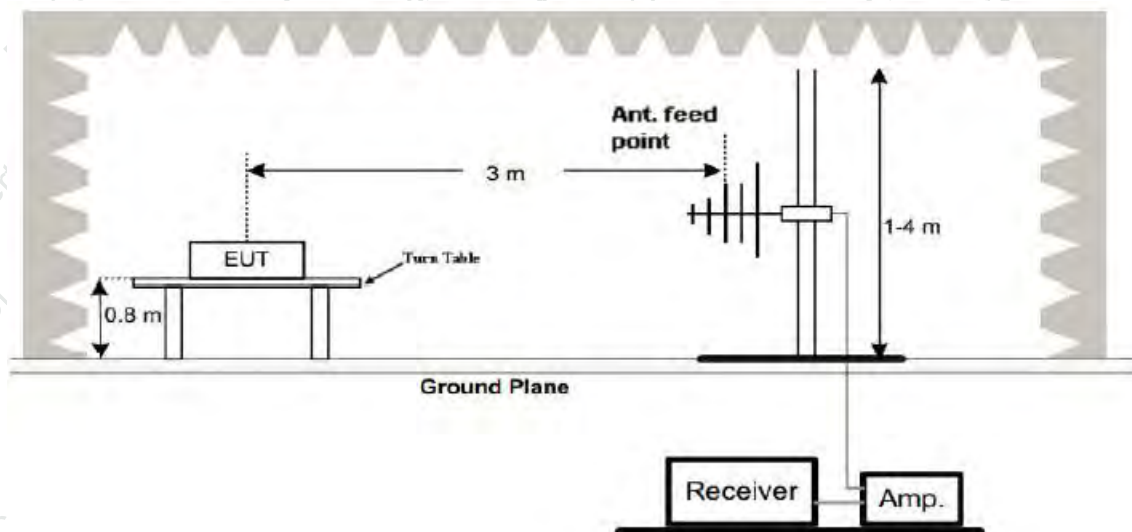
No deviation

4.2.4 TEST SETUP

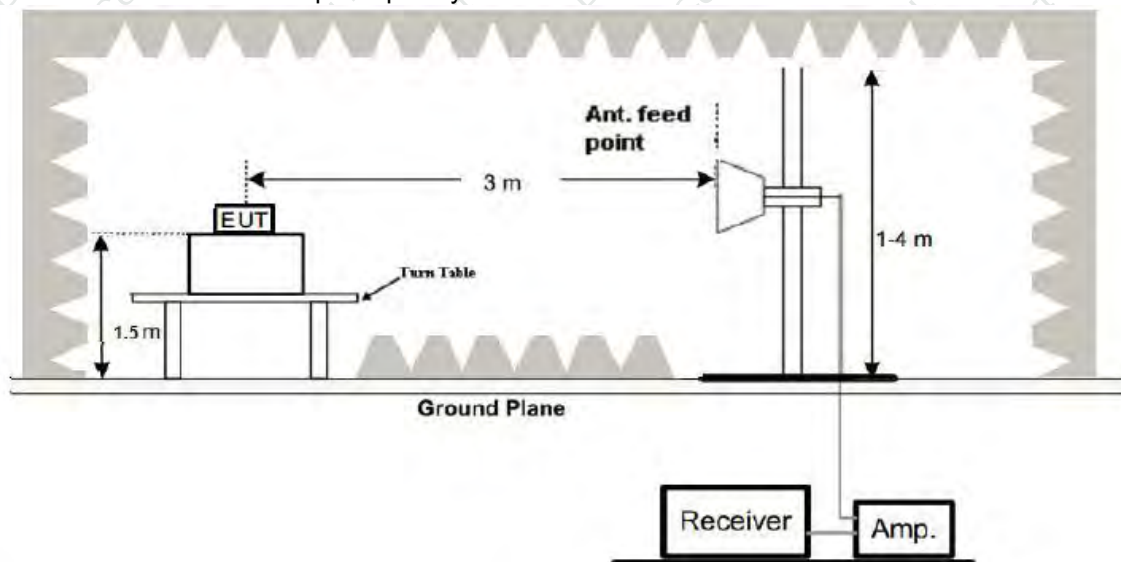
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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 4.2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

4.2.6 TEST RESULTS

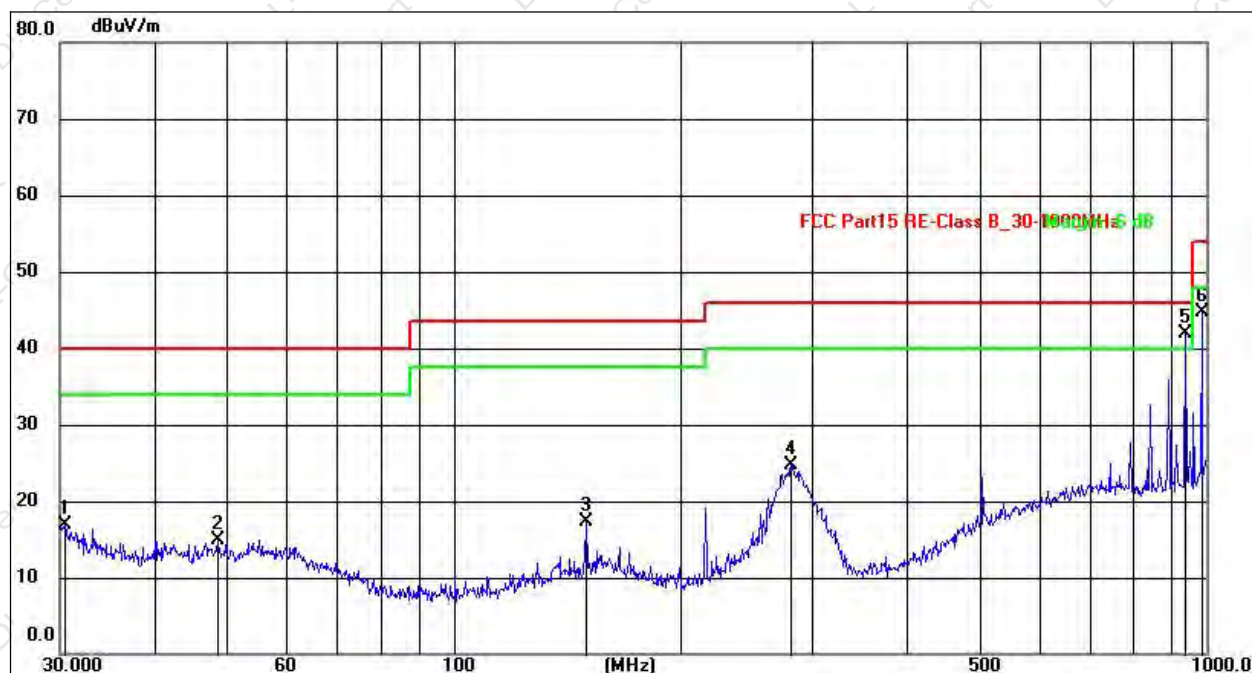
Between 9KHz – 30MHz

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 3.7V	Test Mode :	TX 802.11n20 - 2412MHz



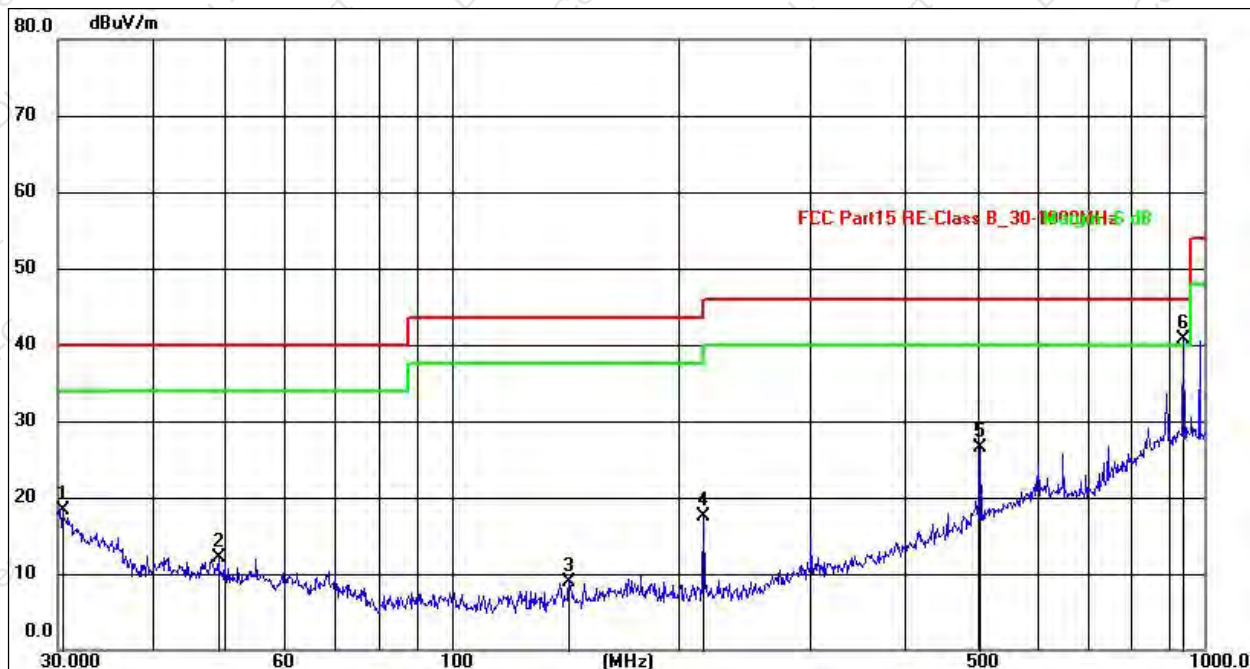
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	30.5306	31.06	-14.19	16.87	40.00	-23.13	QP
2	48.6719	28.91	-13.95	14.96	40.00	-25.04	QP
3	150.0108	33.67	-16.35	17.32	43.50	-26.18	QP
4	281.0074	38.75	-14.07	24.68	46.00	-21.32	QP
5	938.8326	47.76	-5.86	41.90	46.00	-4.10	QP
6	986.0716	49.53	-4.86	44.67	54.00	-9.33	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. The test data shows only the worst case TX 802.11n20 - 2412MHz.



Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 3.7V	Test Mode :	TX 802.11n20 - 2412MHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	30.4237	36.67	-18.27	18.40	40.00	-21.60	QP
2	49.0144	29.31	-17.14	12.17	40.00	-27.83	QP
3	143.3260	29.61	-20.61	9.00	43.50	-34.50	QP
4	216.0239	37.67	-20.12	17.55	46.00	-28.45	QP
5	504.7062	37.32	-10.80	26.52	46.00	-19.48	QP
6	938.8326	40.85	-0.23	40.62	46.00	-5.38	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. The test data shows only the worst case TX 802.11n20 - 2412MHz.



1GHz~25GHz

802.11b

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:2412MHz									
V	4824.00	54.60	30.55	5.77	24.66	54.48	74.00	-19.52	PK
V	4824.00	43.18	30.55	5.77	24.66	43.06	54.00	-10.94	AV
V	7236.00	54.44	30.33	6.32	24.55	54.98	74.00	-19.02	PK
V	7236.00	43.15	30.33	6.32	24.55	43.69	54.00	-10.31	AV
V	9648.00	50.04	30.85	7.45	24.69	51.33	74.00	-22.67	PK
V	9648.00	43.50	30.85	7.45	24.69	44.79	54.00	-9.21	AV
V	12060.00	52.43	31.02	8.99	25.57	55.97	74.00	-18.03	PK
V	12060.00	43.18	31.02	8.99	25.57	46.72	54.00	-7.28	AV
H	4824.00	52.65	30.55	5.77	24.66	52.53	74.00	-21.47	PK
H	4824.00	43.86	30.55	5.77	24.66	43.74	54.00	-10.26	AV
H	7236.00	52.39	30.33	6.32	24.55	52.93	74.00	-21.07	PK
H	7236.00	43.17	30.33	6.32	24.55	43.71	54.00	-10.29	AV
H	9648.00	54.01	30.85	7.45	24.69	55.30	74.00	-18.70	PK
H	9648.00	43.56	30.85	7.45	24.69	44.85	54.00	-9.15	AV
H	12060.00	52.83	31.02	8.99	25.57	56.37	74.00	-17.63	PK
H	12060.00	43.88	31.02	8.99	25.57	47.42	54.00	-6.58	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:2437MHz									
V	4874.00	54.57	30.55	5.77	24.66	54.45	74.00	-19.55	PK
V	4874.00	43.09	30.55	5.77	24.66	42.97	54.00	-11.03	AV
V	7311.00	51.63	30.33	6.32	24.55	52.17	74.00	-21.83	PK
V	7311.00	43.12	30.33	6.32	24.55	43.66	54.00	-10.34	AV
V	9748.00	50.43	30.85	7.45	24.69	51.72	74.00	-22.28	PK
V	9748.00	43.31	30.85	7.45	24.69	44.60	54.00	-9.40	AV
V	12185.00	53.53	31.02	8.99	25.57	57.07	74.00	-16.93	PK
V	12185.00	43.92	31.02	8.99	25.57	47.46	54.00	-6.54	AV
H	4874.00	54.02	30.55	5.77	24.66	53.90	74.00	-20.10	PK
H	4874.00	43.88	30.55	5.77	24.66	43.76	54.00	-10.24	AV
H	7311.00	54.97	30.33	6.32	24.55	55.51	74.00	-18.49	PK
H	7311.00	43.46	30.33	6.32	24.55	44.00	54.00	-10.00	AV
H	9748.00	50.10	30.85	7.45	24.69	51.39	74.00	-22.61	PK
H	9748.00	43.88	30.85	7.45	24.69	45.17	54.00	-8.83	AV
H	12185.00	53.76	31.02	8.99	25.57	57.30	74.00	-16.70	PK
H	12185.00	43.30	31.02	8.99	25.57	46.84	54.00	-7.16	AV



Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:2462MHz									
V	4924.00	51.92	30.55	5.77	24.66	51.80	74.00	-22.20	PK
V	4924.00	43.46	30.55	5.77	24.66	43.34	54.00	-10.66	AV
V	7386.00	51.83	30.33	6.32	24.55	52.37	74.00	-21.63	PK
V	7386.00	43.43	30.33	6.32	24.55	43.97	54.00	-10.03	AV
V	9848.00	53.82	30.85	7.45	24.69	55.11	74.00	-18.89	PK
V	9848.00	43.84	30.85	7.45	24.69	45.13	54.00	-8.87	AV
V	12310.00	51.80	31.02	8.99	25.57	55.34	74.00	-18.66	PK
V	12310.00	43.22	31.02	8.99	25.57	46.76	54.00	-7.24	AV
H	4924.00	50.83	30.55	5.77	24.66	50.71	74.00	-23.29	PK
H	4924.00	43.09	30.55	5.77	24.66	42.97	54.00	-11.03	AV
H	7386.00	53.73	30.33	6.32	24.55	54.27	74.00	-19.73	PK
H	7386.00	43.65	30.33	6.32	24.55	44.19	54.00	-9.81	AV
H	9848.00	50.01	30.85	7.45	24.69	51.30	74.00	-22.70	PK
H	9848.00	43.99	30.85	7.45	24.69	45.28	54.00	-8.72	AV
H	12310.00	53.66	31.02	8.99	25.57	57.20	74.00	-16.80	PK
H	12310.00	43.20	31.02	8.99	25.57	46.74	54.00	-7.26	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.



802.11g

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:2412MHz									
V	4824.00	54.94	30.55	5.77	24.66	54.82	74.00	-19.18	PK
V	4824.00	43.54	30.55	5.77	24.66	43.42	54.00	-10.58	AV
V	7236.00	51.00	30.33	6.32	24.55	51.54	74.00	-22.46	PK
V	7236.00	43.93	30.33	6.32	24.55	44.47	54.00	-9.53	AV
V	9648.00	54.58	30.85	7.45	24.69	55.87	74.00	-18.13	PK
V	9648.00	43.43	30.85	7.45	24.69	44.72	54.00	-9.28	AV
V	12060.00	54.27	31.02	8.99	25.57	57.81	74.00	-16.19	PK
V	12060.00	43.09	31.02	8.99	25.57	46.63	54.00	-7.37	AV
H	4824.00	51.67	30.55	5.77	24.66	51.55	74.00	-22.45	PK
H	4824.00	43.31	30.55	5.77	24.66	43.19	54.00	-10.81	AV
H	7236.00	52.24	30.33	6.32	24.55	52.78	74.00	-21.22	PK
H	7236.00	43.97	30.33	6.32	24.55	44.51	54.00	-9.49	AV
H	9648.00	50.23	30.85	7.45	24.69	51.52	74.00	-22.48	PK
H	9648.00	43.54	30.85	7.45	24.69	44.83	54.00	-9.17	AV
H	12060.00	51.00	31.02	8.99	25.57	54.54	74.00	-19.46	PK
H	12060.00	43.90	31.02	8.99	25.57	47.44	54.00	-6.56	AV

Polar (H/V)	Frequency	Meter Reading	Pre-amp lifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:2437MHz									
V	4874.00	52.26	30.55	5.77	24.66	52.14	74.00	-21.86	PK
V	4874.00	43.54	30.55	5.77	24.66	43.42	54.00	-10.58	AV
V	7311.00	51.34	30.33	6.32	24.55	51.88	74.00	-22.12	PK
V	7311.00	43.34	30.33	6.32	24.55	43.88	54.00	-10.12	AV
V	9748.00	53.57	30.85	7.45	24.69	54.86	74.00	-19.14	PK
V	9748.00	43.10	30.85	7.45	24.69	44.39	54.00	-9.61	AV
V	12185.00	52.91	31.02	8.99	25.57	56.45	74.00	-17.55	PK
V	12185.00	43.73	31.02	8.99	25.57	47.27	54.00	-6.73	AV
H	4874.00	53.09	30.55	5.77	24.66	52.97	74.00	-21.03	PK
H	4874.00	43.47	30.55	5.77	24.66	43.35	54.00	-10.65	AV
H	7311.00	52.06	30.33	6.32	24.55	52.60	74.00	-21.40	PK
H	7311.00	43.62	30.33	6.32	24.55	44.16	54.00	-9.84	AV
H	9748.00	53.99	30.85	7.45	24.69	55.28	74.00	-18.72	PK
H	9748.00	43.79	30.85	7.45	24.69	45.08	54.00	-8.92	AV
H	12185.00	54.37	31.02	8.99	25.57	57.91	74.00	-16.09	PK
H	12185.00	43.94	31.02	8.99	25.57	47.48	54.00	-6.52	AV



Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:2462MHz									
V	4924.00	50.44	30.55	5.77	24.66	50.32	74.00	-23.68	PK
V	4924.00	43.12	30.55	5.77	24.66	43.00	54.00	-11.00	AV
V	7386.00	51.91	30.33	6.32	24.55	52.45	74.00	-21.55	PK
V	7386.00	43.60	30.33	6.32	24.55	44.14	54.00	-9.86	AV
V	9848.00	52.11	30.85	7.45	24.69	53.40	74.00	-20.60	PK
V	9848.00	43.73	30.85	7.45	24.69	45.02	54.00	-8.98	AV
V	12310.00	52.27	31.02	8.99	25.57	55.81	74.00	-18.19	PK
V	12310.00	43.70	31.02	8.99	25.57	47.24	54.00	-6.76	AV
H	4924.00	53.33	30.55	5.77	24.66	53.21	74.00	-20.79	PK
H	4924.00	43.95	30.55	5.77	24.66	43.83	54.00	-10.17	AV
H	7386.00	52.08	30.33	6.32	24.55	52.62	74.00	-21.38	PK
H	7386.00	43.89	30.33	6.32	24.55	44.43	54.00	-9.57	AV
H	9848.00	53.98	30.85	7.45	24.69	55.27	74.00	-18.73	PK
H	9848.00	43.52	30.85	7.45	24.69	44.81	54.00	-9.19	AV
H	12310.00	50.48	31.02	8.99	25.57	54.02	74.00	-19.98	PK
H	12310.00	43.98	31.02	8.99	25.57	47.52	54.00	-6.48	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.



802.11n20

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:2412MHz									
V	4824.00	54.00	30.55	5.77	24.66	53.88	74.00	-20.12	PK
V	4824.00	43.25	30.55	5.77	24.66	43.13	54.00	-10.87	AV
V	7236.00	54.48	30.33	6.32	24.55	55.02	74.00	-18.98	PK
V	7236.00	43.43	30.33	6.32	24.55	43.97	54.00	-10.03	AV
V	9648.00	52.74	30.85	7.45	24.69	54.03	74.00	-19.97	PK
V	9648.00	43.89	30.85	7.45	24.69	45.18	54.00	-8.82	AV
V	12060.00	52.88	31.02	8.99	25.57	56.42	74.00	-17.58	PK
V	12060.00	43.83	31.02	8.99	25.57	47.37	54.00	-6.63	AV
H	4824.00	51.46	30.55	5.77	24.66	51.34	74.00	-22.66	PK
H	4824.00	43.32	30.55	5.77	24.66	43.20	54.00	-10.80	AV
H	7236.00	52.34	30.33	6.32	24.55	52.88	74.00	-21.12	PK
H	7236.00	43.20	30.33	6.32	24.55	43.74	54.00	-10.26	AV
H	9648.00	54.82	30.85	7.45	24.69	56.11	74.00	-17.89	PK
H	9648.00	43.53	30.85	7.45	24.69	44.82	54.00	-9.18	AV
H	12060.00	50.96	31.02	8.99	25.57	54.50	74.00	-19.50	PK
H	12060.00	43.72	31.02	8.99	25.57	47.26	54.00	-6.74	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:2437MHz									
V	4874.00	53.35	30.55	5.77	24.66	53.23	74.00	-20.77	PK
V	4874.00	43.65	30.55	5.77	24.66	43.53	54.00	-10.47	AV
V	7311.00	50.27	30.33	6.32	24.55	50.81	74.00	-23.19	PK
V	7311.00	43.72	30.33	6.32	24.55	44.26	54.00	-9.74	AV
V	9748.00	54.76	30.85	7.45	24.69	56.05	74.00	-17.95	PK
V	9748.00	43.22	30.85	7.45	24.69	44.51	54.00	-9.49	AV
V	12185.00	50.55	31.02	8.99	25.57	54.09	74.00	-19.91	PK
V	12185.00	43.92	31.02	8.99	25.57	47.46	54.00	-6.54	AV
H	4874.00	54.76	30.55	5.77	24.66	54.64	74.00	-19.36	PK
H	4874.00	43.27	30.55	5.77	24.66	43.15	54.00	-10.85	AV
H	7311.00	54.71	30.33	6.32	24.55	55.25	74.00	-18.75	PK
H	7311.00	43.61	30.33	6.32	24.55	44.15	54.00	-9.85	AV
H	9748.00	53.96	30.85	7.45	24.69	55.25	74.00	-18.75	PK
H	9748.00	43.73	30.85	7.45	24.69	45.02	54.00	-8.98	AV
H	12185.00	53.18	31.02	8.99	25.57	56.72	74.00	-17.28	PK
H	12185.00	43.89	31.02	8.99	25.57	47.43	54.00	-6.57	AV



Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:2462MHz									
V	4924.00	51.46	30.55	5.77	24.66	51.34	74.00	-22.66	PK
V	4924.00	43.93	30.55	5.77	24.66	43.81	54.00	-10.19	AV
V	7386.00	54.62	30.33	6.32	24.55	55.16	74.00	-18.84	PK
V	7386.00	43.51	30.33	6.32	24.55	44.05	54.00	-9.95	AV
V	9848.00	50.66	30.85	7.45	24.69	51.95	74.00	-22.05	PK
V	9848.00	43.94	30.85	7.45	24.69	45.23	54.00	-8.77	AV
V	12310.00	54.42	31.02	8.99	25.57	57.96	74.00	-16.04	PK
V	12310.00	43.31	31.02	8.99	25.57	46.85	54.00	-7.15	AV
H	4924.00	52.90	30.55	5.77	24.66	52.78	74.00	-21.22	PK
H	4924.00	43.36	30.55	5.77	24.66	43.24	54.00	-10.76	AV
H	7386.00	54.78	30.33	6.32	24.55	55.32	74.00	-18.68	PK
H	7386.00	43.01	30.33	6.32	24.55	43.55	54.00	-10.45	AV
H	9848.00	51.25	30.85	7.45	24.69	52.54	74.00	-21.46	PK
H	9848.00	43.50	30.85	7.45	24.69	44.79	54.00	-9.21	AV
H	12310.00	53.50	31.02	8.99	25.57	57.04	74.00	-16.96	PK
H	12310.00	43.10	31.02	8.99	25.57	46.64	54.00	-7.36	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.



802.11n40

Polar (H/V)	Frequenc y	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:2422MHz									
V	4844.00	52.29	30.55	5.77	24.66	52.17	74.00	-21.83	PK
V	4844.00	43.64	30.55	5.77	24.66	43.52	54.00	-10.48	AV
V	7266.00	51.74	30.33	6.32	24.55	52.28	74.00	-21.72	PK
V	7266.00	43.53	30.33	6.32	24.55	44.07	54.00	-9.93	AV
V	9688.00	52.81	30.85	7.45	24.69	54.10	74.00	-19.90	PK
V	9688.00	43.45	30.85	7.45	24.69	44.74	54.00	-9.26	AV
V	12110.00	52.02	31.02	8.99	25.57	55.56	74.00	-18.44	PK
V	12110.00	43.88	31.02	8.99	25.57	47.42	54.00	-6.58	AV
H	4844.00	51.92	30.55	5.77	24.66	51.80	74.00	-22.20	PK
H	4844.00	43.65	30.55	5.77	24.66	43.53	54.00	-10.47	AV
H	7266.00	53.86	30.33	6.32	24.55	54.40	74.00	-19.60	PK
H	7266.00	43.47	30.33	6.32	24.55	44.01	54.00	-9.99	AV
H	9688.00	50.20	30.85	7.45	24.69	51.49	74.00	-22.51	PK
H	9688.00	43.33	30.85	7.45	24.69	44.62	54.00	-9.38	AV
H	12110.00	52.80	31.02	8.99	25.57	56.34	74.00	-17.66	PK
H	12110.00	43.36	31.02	8.99	25.57	46.90	54.00	-7.10	AV

Polar (H/V)	Frequenc y	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:2437MHz									
V	4874.00	52.46	30.55	5.77	24.66	52.34	74.00	-21.66	PK
V	4874.00	43.26	30.55	5.77	24.66	43.14	54.00	-10.86	AV
V	7311.00	52.83	30.33	6.32	24.55	53.37	74.00	-20.63	PK
V	7311.00	43.93	30.33	6.32	24.55	44.47	54.00	-9.53	AV
V	9748.00	50.05	30.85	7.45	24.69	51.34	74.00	-22.66	PK
V	9748.00	43.26	30.85	7.45	24.69	44.55	54.00	-9.45	AV
V	12185.00	52.95	31.02	8.99	25.57	56.49	74.00	-17.51	PK
V	12185.00	43.85	31.02	8.99	25.57	47.39	54.00	-6.61	AV
H	4874.00	54.45	30.55	5.77	24.66	54.33	74.00	-19.67	PK
H	4874.00	43.29	30.55	5.77	24.66	43.17	54.00	-10.83	AV
H	7311.00	54.81	30.33	6.32	24.55	55.35	74.00	-18.65	PK
H	7311.00	43.89	30.33	6.32	24.55	44.43	54.00	-9.57	AV
H	9748.00	53.34	30.85	7.45	24.69	54.63	74.00	-19.37	PK
H	9748.00	43.56	30.85	7.45	24.69	44.85	54.00	-9.15	AV
H	12185.00	53.38	31.02	8.99	25.57	56.92	74.00	-17.08	PK
H	12185.00	43.84	31.02	8.99	25.57	47.38	54.00	-6.62	AV



Polar (H/V)	Frequency	Meter Reading	Pre-amp lifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:2452MHz									
V	4904.00	51.51	30.55	5.77	24.66	51.39	74.00	-22.61	PK
V	4904.00	43.44	30.55	5.77	24.66	43.32	54.00	-10.68	AV
V	7356.00	54.00	30.33	6.32	24.55	54.54	74.00	-19.46	PK
V	7356.00	43.88	30.33	6.32	24.55	44.42	54.00	-9.58	AV
V	9808.00	53.27	30.85	7.45	24.69	54.56	74.00	-19.44	PK
V	9808.00	43.59	30.85	7.45	24.69	44.88	54.00	-9.12	AV
V	12260.00	53.11	31.02	8.99	25.57	56.65	74.00	-17.35	PK
V	12260.00	43.02	31.02	8.99	25.57	46.56	54.00	-7.44	AV
H	4904.00	54.20	30.55	5.77	24.66	54.08	74.00	-19.92	PK
H	4904.00	43.49	30.55	5.77	24.66	43.37	54.00	-10.63	AV
H	7356.00	53.82	30.33	6.32	24.55	54.36	74.00	-19.64	PK
H	7356.00	43.84	30.33	6.32	24.55	44.38	54.00	-9.62	AV
H	9808.00	50.82	30.85	7.45	24.69	52.11	74.00	-21.89	PK
H	9808.00	43.92	30.85	7.45	24.69	45.21	54.00	-8.79	AV
H	12260.00	51.66	31.02	8.99	25.57	55.20	74.00	-18.80	PK
H	12260.00	43.81	31.02	8.99	25.57	47.35	54.00	-6.65	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 EMISSION MEASUREMENT

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	Peak	1MHz	3MHz	Peak
	1GHz	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:

1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. 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.
4. 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.
5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dBmargin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
7. 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

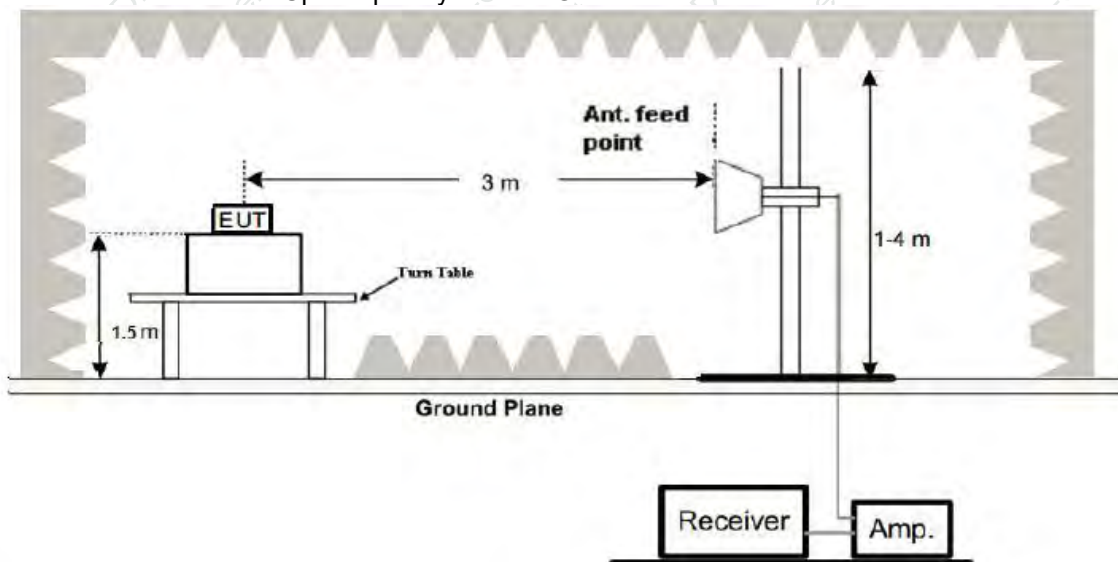
5.3 DEVIATION FROM TEST STANDARD

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 5.4 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)	Detect or Type	Result
802.11 b	Low Channel: 2412MHz										
	H	2310.00	54.82	30.22	4.85	23.98	53.43	74.00	-20.57	PK	PASS
	H	2310.00	44.01	30.22	4.85	23.98	42.62	54.00	-11.38	AV	PASS
	H	2350.00	53.31	30.22	4.85	23.98	51.92	74.00	-22.08	PK	PASS
	H	2350.00	44.78	30.22	4.85	23.98	43.39	54.00	-10.61	AV	PASS
	H	2390.00	54.86	30.22	4.85	23.98	53.47	74.00	-20.53	PK	PASS
	H	2390.00	44.17	30.22	4.85	23.98	42.78	54.00	-11.22	AV	PASS
	V	2310.00	53.34	30.22	4.85	23.98	51.95	74.00	-22.05	PK	PASS
	V	2310.00	44.65	30.22	4.85	23.98	43.26	54.00	-10.74	AV	PASS
	V	2350.00	53.02	30.22	4.85	23.98	51.63	74.00	-22.37	PK	PASS
	V	2350.00	44.29	30.22	4.85	23.98	42.90	54.00	-11.10	AV	PASS
	V	2390.00	53.07	30.22	4.85	23.98	51.68	74.00	-22.32	PK	PASS
	V	2390.00	44.98	30.22	4.85	23.98	43.59	54.00	-10.41	AV	PASS
	High Channel: 2462MHz										
	H	2483.50	54.58	30.22	4.85	23.98	53.19	74.00	-20.81	PK	PASS
	H	2483.50	44.20	30.22	4.85	23.98	42.81	54.00	-11.19	AV	PASS
	H	2500.00	53.06	30.22	4.85	23.98	51.67	74.00	-22.33	PK	PASS
	H	2500.00	44.79	30.22	4.85	23.98	43.40	54.00	-10.60	AV	PASS
	V	2483.50	54.26	30.22	4.85	23.98	52.87	74.00	-21.13	PK	PASS
	V	2483.50	44.75	30.22	4.85	23.98	43.36	54.00	-10.64	AV	PASS
	V	2500.00	54.07	30.22	4.85	23.98	52.68	74.00	-21.32	PK	PASS
	V	2500.00	44.37	30.22	4.85	23.98	42.98	54.00	-11.02	AV	PASS
802.11 g	Low Channel: 2412MHz										
	H	2310.00	54.48	30.22	4.85	23.98	53.09	74.00	-20.91	PK	PASS
	H	2310.00	44.57	30.22	4.85	23.98	43.18	54.00	-10.82	AV	PASS
	H	2350.00	53.76	30.22	4.85	23.98	52.37	74.00	-21.63	PK	PASS
	H	2350.00	44.79	30.22	4.85	23.98	43.40	54.00	-10.60	AV	PASS
	H	2390.00	54.73	30.22	4.85	23.98	53.34	74.00	-20.66	PK	PASS
	H	2390.00	44.13	30.22	4.85	23.98	42.74	54.00	-11.26	AV	PASS
	V	2310.00	53.86	30.22	4.85	23.98	52.47	74.00	-21.53	PK	PASS
	V	2310.00	44.64	30.22	4.85	23.98	43.25	54.00	-10.75	AV	PASS
	V	2350.00	54.98	30.22	4.85	23.98	53.59	74.00	-20.41	PK	PASS
	V	2350.00	44.36	30.22	4.85	23.98	42.97	54.00	-11.03	AV	PASS
	V	2390.00	54.12	30.22	4.85	23.98	52.73	74.00	-21.27	PK	PASS
	V	2390.00	44.95	30.22	4.85	23.98	43.56	54.00	-10.44	AV	PASS
	High Channel: 2462MHz										
	H	2483.50	54.88	30.22	4.85	23.98	53.49	74.00	-20.51	PK	PASS
	H	2483.50	44.31	30.22	4.85	23.98	42.92	54.00	-11.08	AV	PASS
	H	2500.00	54.92	30.22	4.85	23.98	53.53	74.00	-20.47	PK	PASS
	H	2500.00	44.71	30.22	4.85	23.98	43.32	54.00	-10.68	AV	PASS
	V	2483.50	54.49	30.22	4.85	23.98	53.10	74.00	-20.90	PK	PASS
	V	2483.50	44.46	30.22	4.85	23.98	43.07	54.00	-10.93	AV	PASS
	V	2500.00	53.93	30.22	4.85	23.98	52.54	74.00	-21.46	PK	PASS
	V	2500.00	44.76	30.22	4.85	23.98	43.37	54.00	-10.63	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)	Detect or Type	Result
802.11 N20	Low Channel: 2412MHz										
	H	2310.00	54.76	30.22	4.85	23.98	53.37	74.00	-20.63	PK	PASS
	H	2310.00	44.09	30.22	4.85	23.98	42.70	54.00	-11.30	AV	PASS
	H	2350.00	54.89	30.22	4.85	23.98	53.50	74.00	-20.50	PK	PASS
	H	2350.00	44.83	30.22	4.85	23.98	43.44	54.00	-10.56	AV	PASS
	H	2390.00	53.86	30.22	4.85	23.98	52.47	74.00	-21.53	PK	PASS
	H	2390.00	44.52	30.22	4.85	23.98	43.13	54.00	-10.87	AV	PASS
	V	2310.00	53.53	30.22	4.85	23.98	52.14	74.00	-21.86	PK	PASS
	V	2310.00	44.31	30.22	4.85	23.98	42.92	54.00	-11.08	AV	PASS
	V	2350.00	54.40	30.22	4.85	23.98	53.01	74.00	-20.99	PK	PASS
	V	2350.00	44.09	30.22	4.85	23.98	42.70	54.00	-11.30	AV	PASS
	V	2390.00	54.70	30.22	4.85	23.98	53.31	74.00	-20.69	PK	PASS
	V	2390.00	44.01	30.22	4.85	23.98	42.62	54.00	-11.38	AV	PASS
	High Channel: 2462MHz										
	H	2483.50	54.76	30.22	4.85	23.98	53.37	74.00	-20.63	PK	PASS
	H	2483.50	44.03	30.22	4.85	23.98	42.64	54.00	-11.36	AV	PASS
	H	2500.00	54.88	30.22	4.85	23.98	53.49	74.00	-20.51	PK	PASS
	H	2500.00	44.79	30.22	4.85	23.98	43.40	54.00	-10.60	AV	PASS
802.11 N40	V	2483.50	53.72	30.22	4.85	23.98	52.33	74.00	-21.67	PK	PASS
	V	2483.50	44.78	30.22	4.85	23.98	43.39	54.00	-10.61	AV	PASS
	V	2500.00	53.53	30.22	4.85	23.98	52.14	74.00	-21.86	PK	PASS
	V	2500.00	44.11	30.22	4.85	23.98	42.72	54.00	-11.28	AV	PASS
	Low Channel: 2422MHz										
	H	2310.00	53.69	30.22	4.85	23.98	52.30	74.00	-21.70	PK	PASS
	H	2310.00	44.13	30.22	4.85	23.98	42.74	54.00	-11.26	AV	PASS
	H	2350.00	53.41	30.22	4.85	23.98	52.02	74.00	-21.98	PK	PASS
	H	2350.00	44.58	30.22	4.85	23.98	43.19	54.00	-10.81	AV	PASS
	H	2390.00	54.32	30.22	4.85	23.98	52.93	74.00	-21.07	PK	PASS
	H	2390.00	44.32	30.22	4.85	23.98	42.93	54.00	-11.07	AV	PASS
	V	2310.00	53.62	30.22	4.85	23.98	52.23	74.00	-21.77	PK	PASS
	V	2310.00	44.81	30.22	4.85	23.98	43.42	54.00	-10.58	AV	PASS
	V	2350.00	54.71	30.22	4.85	23.98	53.32	74.00	-20.68	PK	PASS
	V	2350.00	44.97	30.22	4.85	23.98	43.58	54.00	-10.42	AV	PASS
	V	2390.00	53.66	30.22	4.85	23.98	52.27	74.00	-21.73	PK	PASS
	V	2390.00	44.36	30.22	4.85	23.98	42.97	54.00	-11.03	AV	PASS
	High Channel: 2452MHz										
	H	2483.50	54.77	30.22	4.85	23.98	53.38	74.00	-20.62	PK	PASS
	H	2483.50	44.69	30.22	4.85	23.98	43.30	54.00	-10.70	AV	PASS
	H	2500.00	54.95	30.22	4.85	23.98	53.56	74.00	-20.44	PK	PASS
	H	2500.00	44.96	30.22	4.85	23.98	43.57	54.00	-10.43	AV	PASS
	V	2483.50	54.05	30.22	4.85	23.98	52.66	74.00	-21.34	PK	PASS
	V	2483.50	44.31	30.22	4.85	23.98	42.92	54.00	-11.08	AV	PASS
	V	2500.00	54.86	30.22	4.85	23.98	53.47	74.00	-20.53	PK	PASS
	V	2500.00	44.01	30.22	4.85	23.98	42.62	54.00	-11.38	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:	KDB558074 D0115.247 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

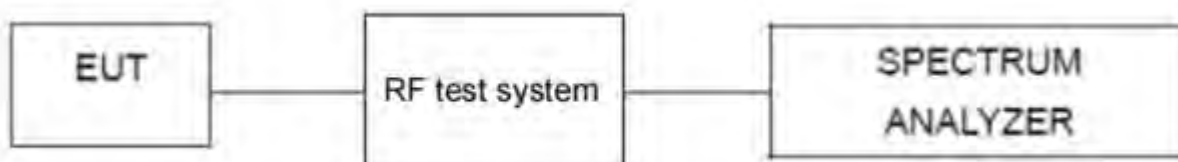
6.2 TEST PROCEDURE

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: $3\text{ kHz} \leq \text{RBW} \leq 100\text{ kHz}$.
4. Set the VBW $\geq 3 \times \text{RBW}$.
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 6.4 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 3.7V

Test Mode	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
802.11b	2412	-19.241	8	PASS
	2437	-18.958	8	PASS
	2462	-18.974	8	PASS
802.11g	2412	-23.277	8	PASS
	2437	-23.479	8	PASS
	2462	-22.927	8	PASS
802.11n20	2412	-24.613	8	PASS
	2437	-24.224	8	PASS
	2462	-24.291	8	PASS
802.11n40	2422	-26.660	8	PASS
	2437	-27.526	8	PASS
	2452	-27.105	8	PASS



802.11b - CH01



802.11b - CH06

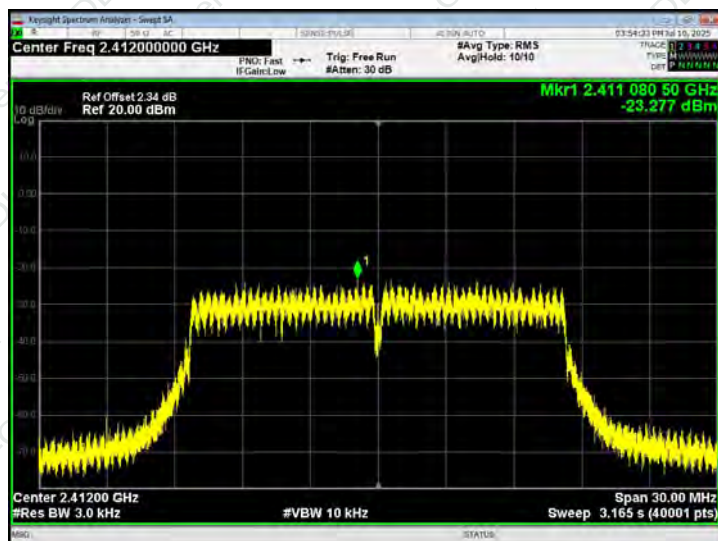


802.11b - CH11

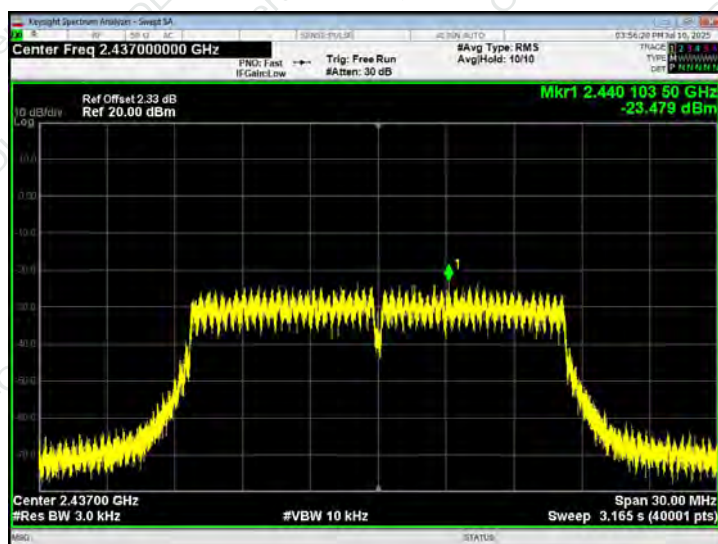




802.11g - CH01



802.11g - CH06

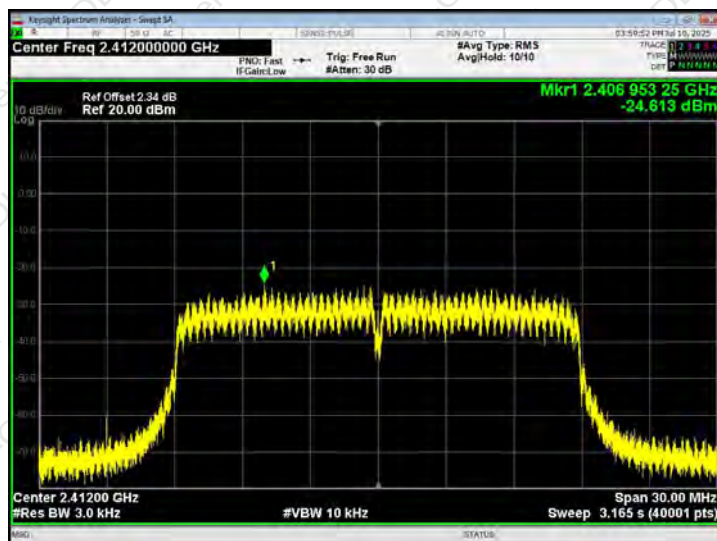


802.11g - CH11

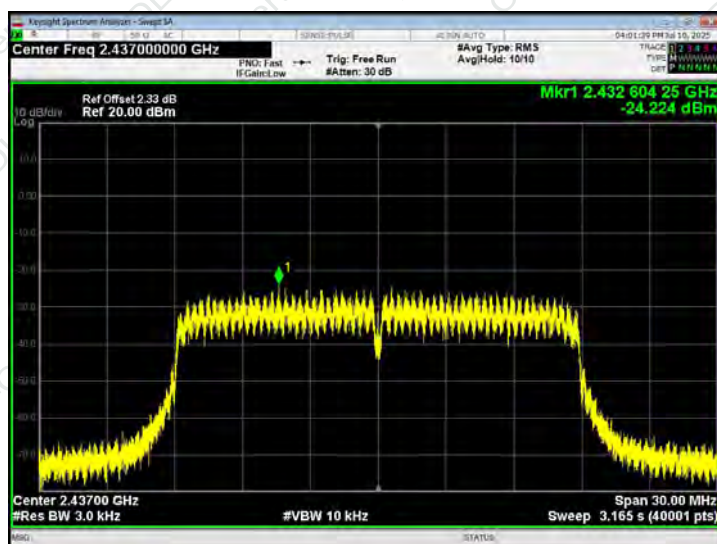




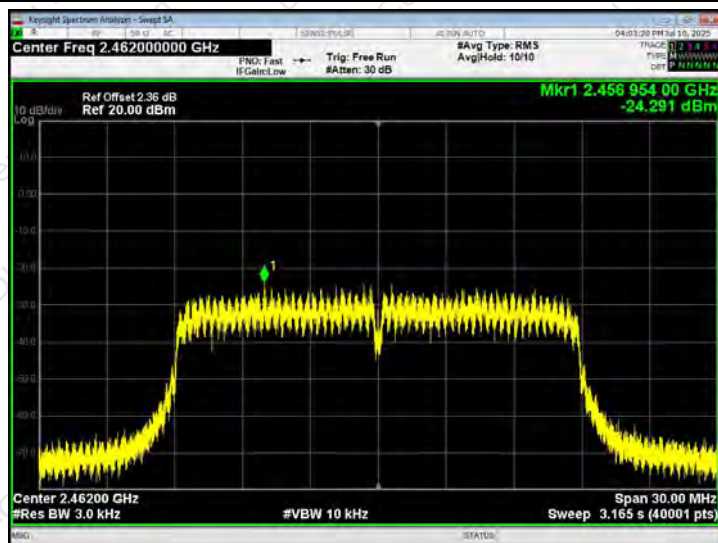
802.11n20 - CH01



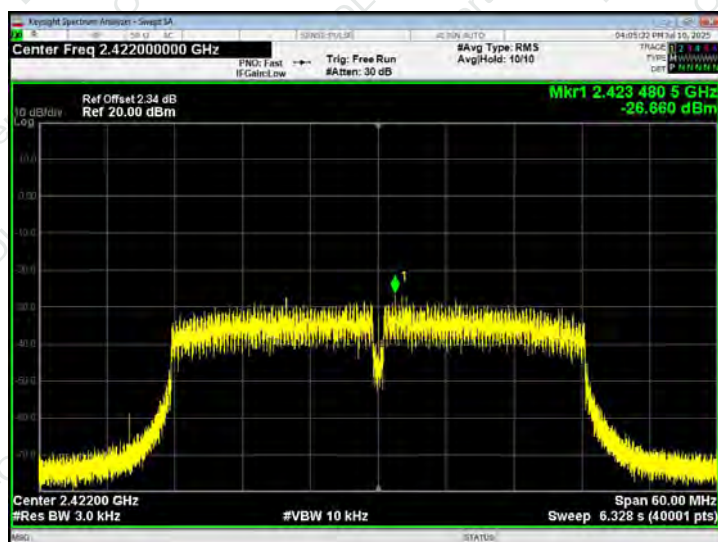
802.11n20 - CH06



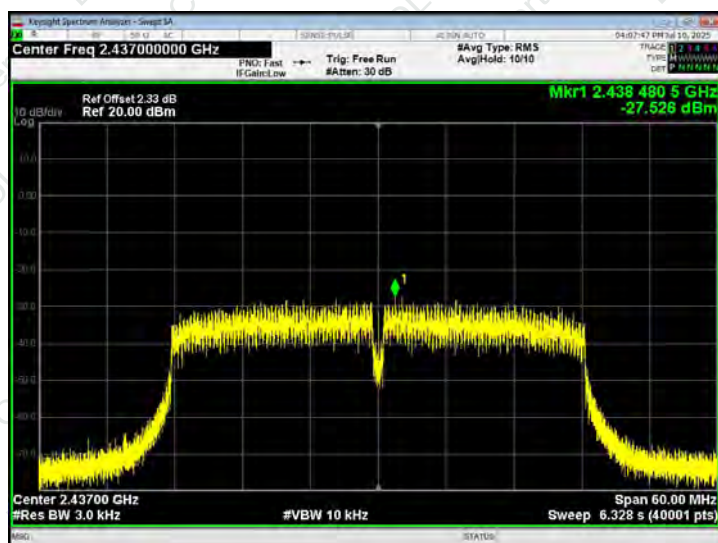
802.11n20 - CH11



802.11n40 - CH03

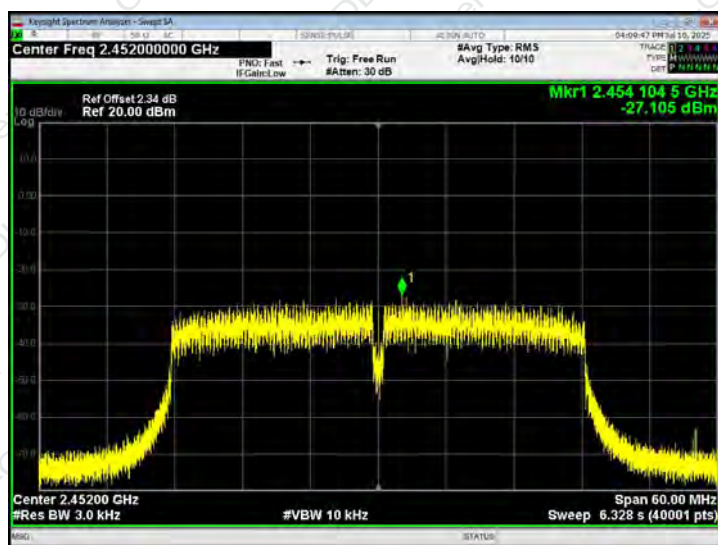


802.11n40 - CH06





802.11n40 - CH09





7. 6DB OCCUPIED BANDWIDTH

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	KDB558074 D0115.247 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	$\geq 500\text{KHz}$ (6dB Occupied Bandwidth)	2400-2483.5	PASS

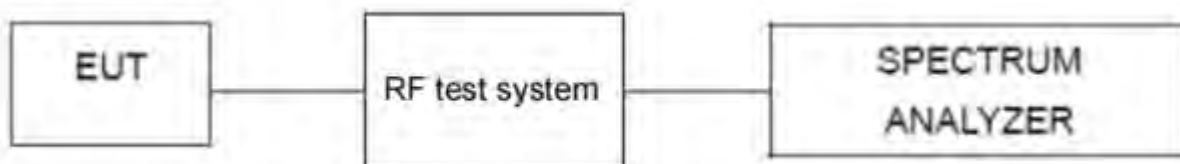
7.2 TEST PROCEDURE

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$.
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 7.4 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 3.7V
Test Mode :	TX		

Test Mode	Test Channel (MHz)	6dB Occupied Bandwidth (MHz)	Limit (kHz)	Result
802.11b	2412	9.026	>500	Pass
	2437	9.104		
	2462	8.593		
802.11g	2412	16.329	>500	Pass
	2437	16.044		
	2462	16.284		
802.11n20	2412	16.589	>500	Pass
	2437	16.995		
	2462	16.549		
802.11n40	2422	32.567	>500	Pass
	2437	35.025		
	2452	34.406		



802.11b - CH01



802.11b - CH06



802.11b - CH11





802.11g - CH01



802.11g - CH06

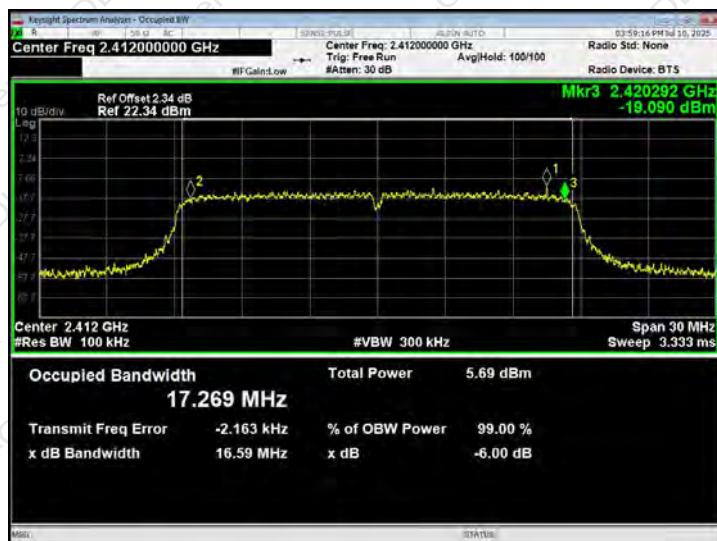


802.11g - CH11





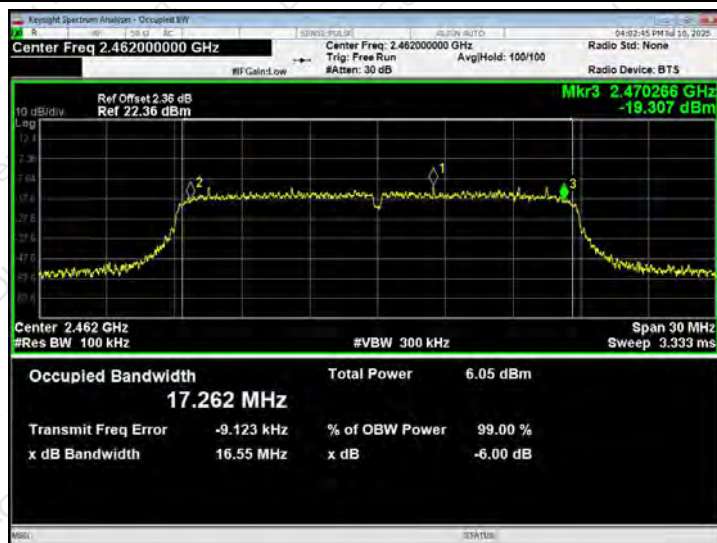
802.11n20 - CH01



802.11n20 - CH06

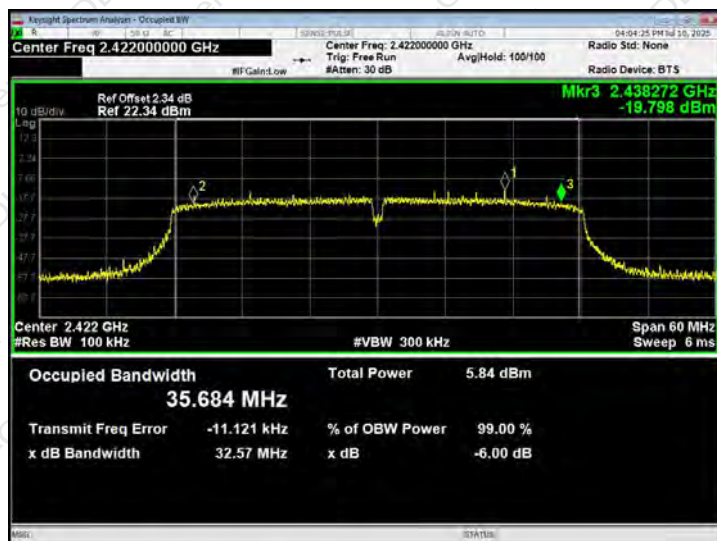


802.11n20 - CH11





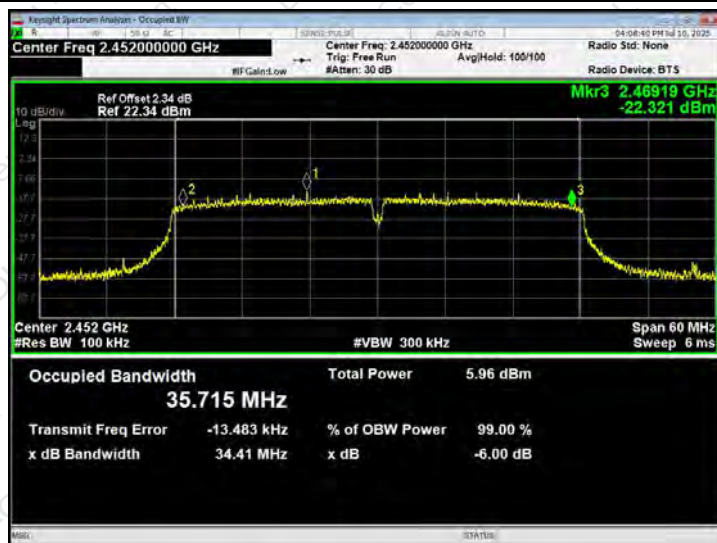
802.11n40 - CH03



802.11n40 - CH06



802.11n40 - CH09



**8. PEAK OUTPUT POWER TEST**

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	KDB558074 D0115.247 Meas Guidancev05r02

8.1 APPLIED PROCEDURES/LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

8.2 TEST PROCEDURE

- a. The EUT was directly connected to the Power meter

8.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP**8.5 EUT OPERATION CONDITIONS**

The EUT tested system was configured as the statements of 8.4 Unless otherwise a special operating condition is specified in the follows during the testing.



8.6 TEST RESULT

Temperature :	26℃	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	DC 3.7V

Test Mode	Test Channel (MHz)	Peak Output Power (dBm)	Limit (dBm)	Result
802.11b	2412	7.377	30.00	Pass
	2437	7.562		
	2462	7.761		
802.11g	2412	6.022	30.00	Pass
	2437	6.306		
	2462	6.462		
802.11n20	2412	4.809	30.00	Pass
	2437	4.886		
	2462	4.826		
802.11n40	2422	4.526	30.00	Pass
	2437	4.523		
	2452	4.604		



9. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB558074 D0115.247 Meas Guidancev05r02

9.1 APPLICABLE STANDARD

in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

9.2 TEST PROCEDURE

A. Reference level measurement, establish a reference level by using the following procedure:

- Set instrument center frequency to FHSS channel center frequency.
- Set the span to ≥ 1.5 times the 20dB bandwidth.
- Set the RBW = 100 kHz.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum PSD level.

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

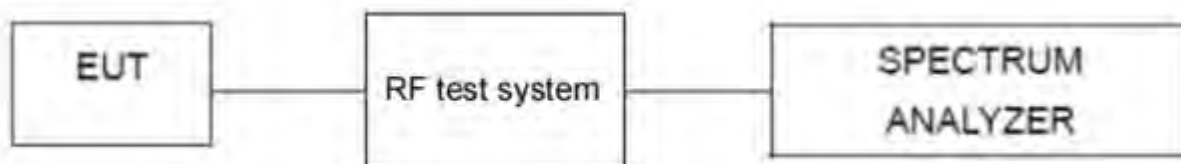
B. Emission level measurement, establish an emission level by using the following procedure:

- Set the center frequency and span to encompass frequency range to be measured.
- Set the RBW = 100 kHz.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level.

9.3 DEVIATION FROM STANDARD

No deviation.

9.4 TEST SETUP





9.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 9.4 Unless otherwise a special operating condition is specified in the follows during the testing.

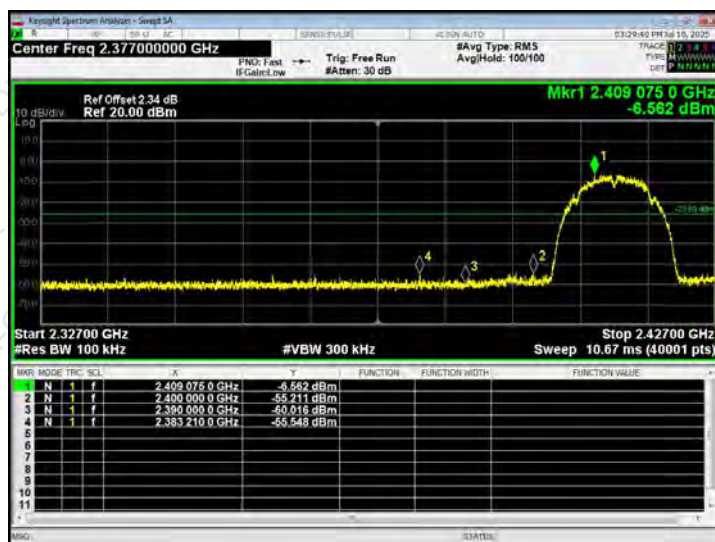
9.6 TEST RESULTS



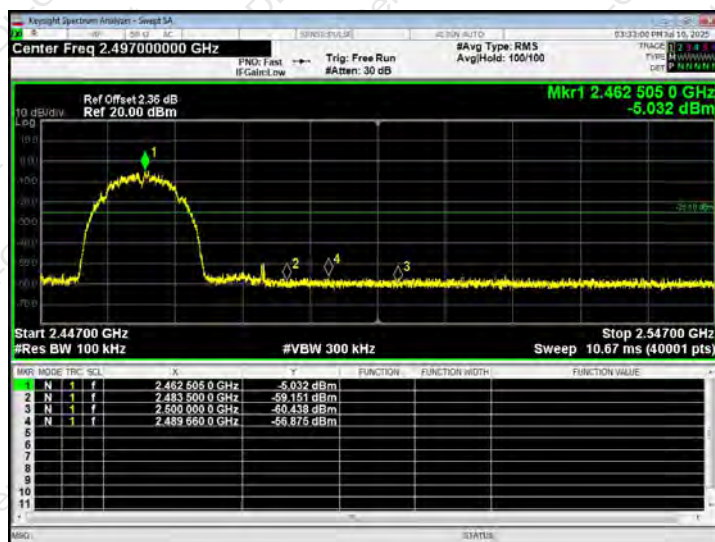
Band edge test plot as follows:

Temperature :	26°C	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	DC 3.7V

802.11b - Lowest channel

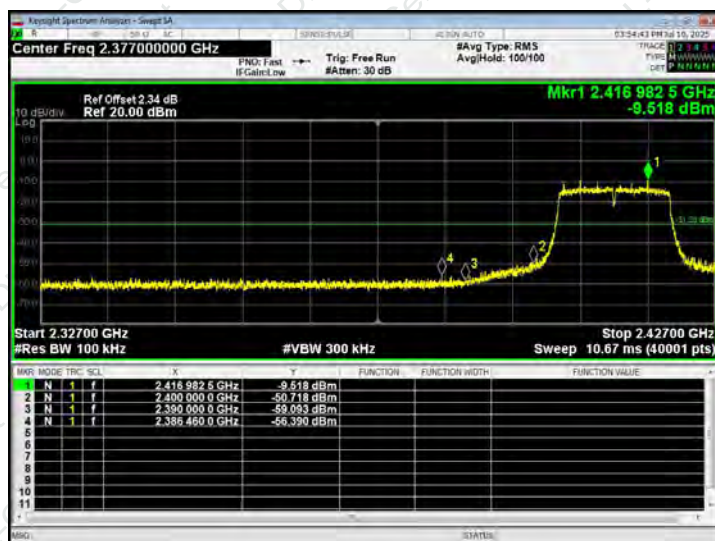


802.11b - Highest channel

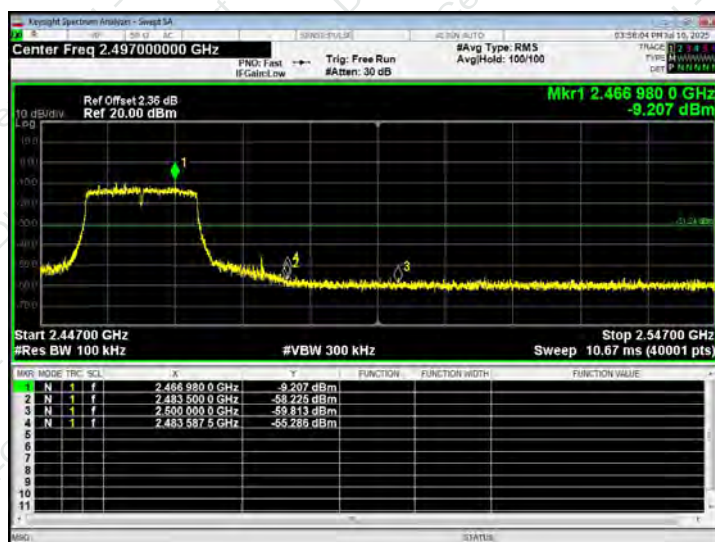
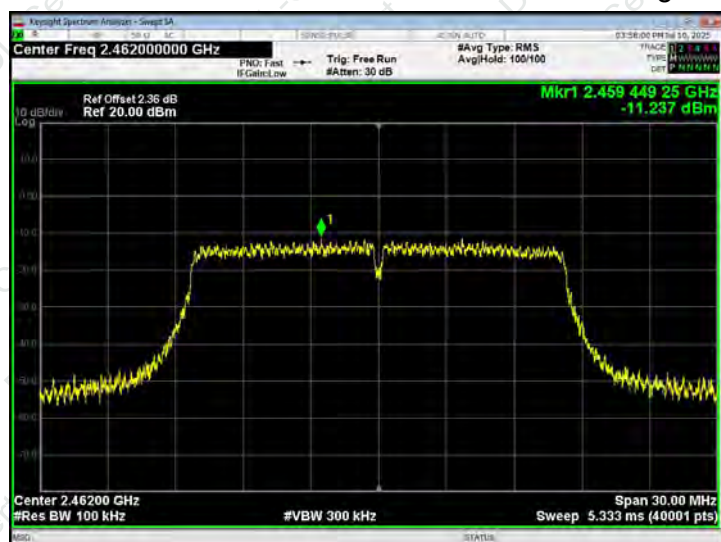




802.11g - Lowest channel

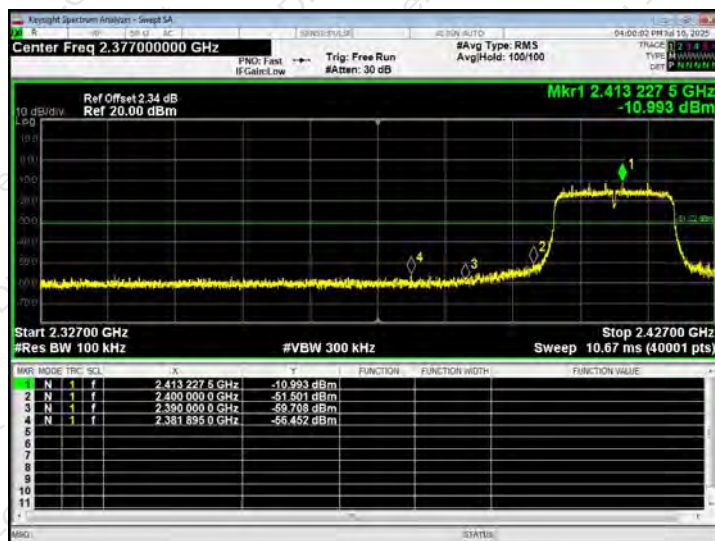


802.11g - Highest channel

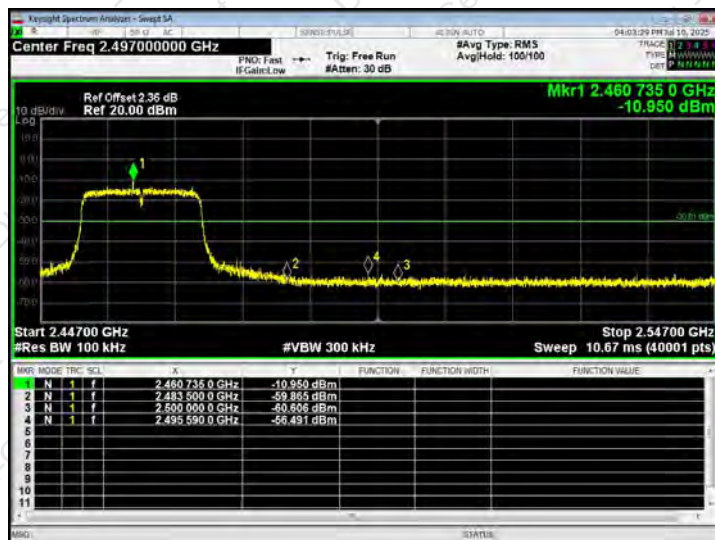




802.11n20 - Lowest channel

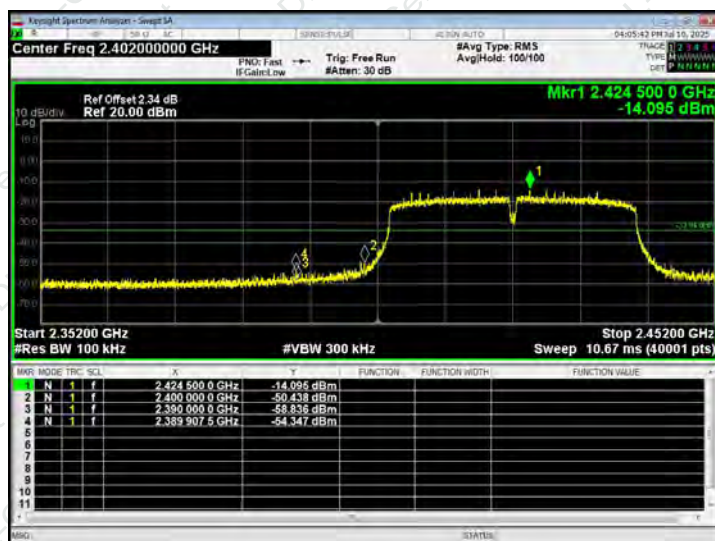
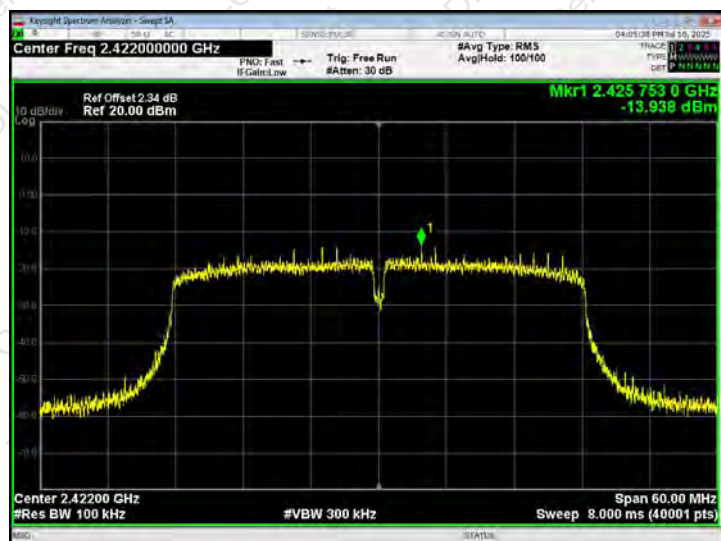


802.11n20 - Highest channel

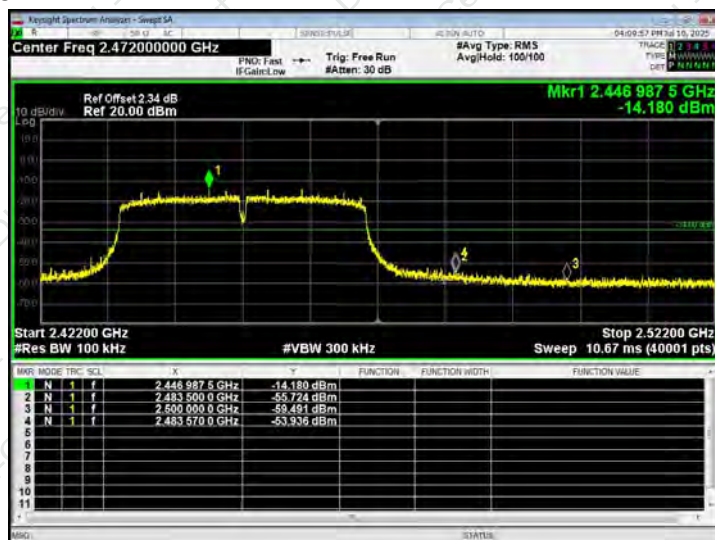
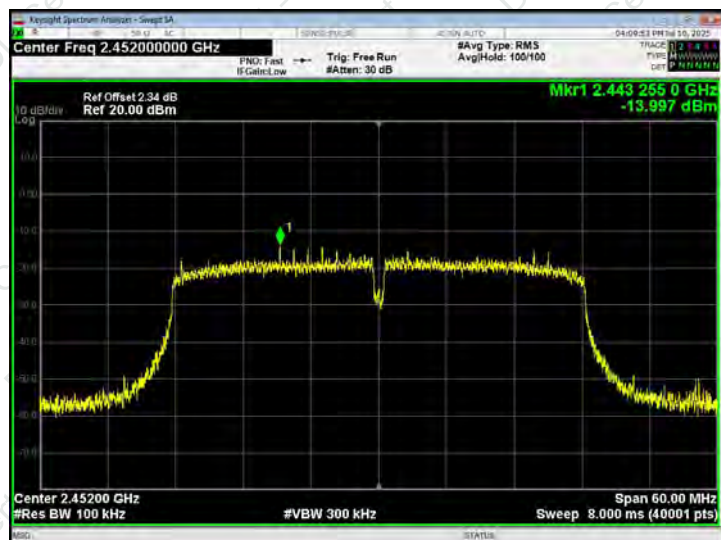




802.11n40 - Lowest channel



802.11n40 - Highest channel

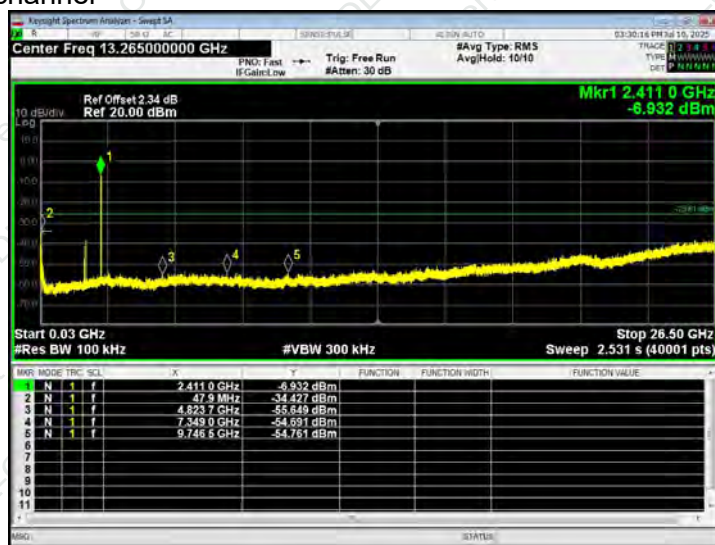




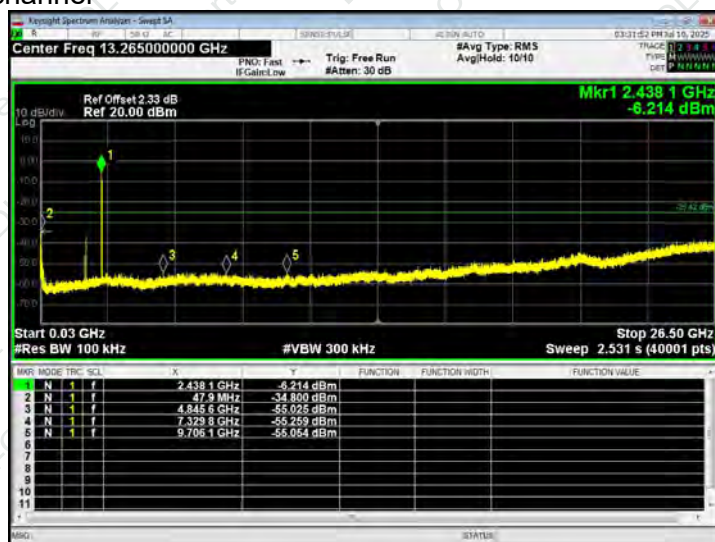
Spurious emission test plot as follows:

802.11b

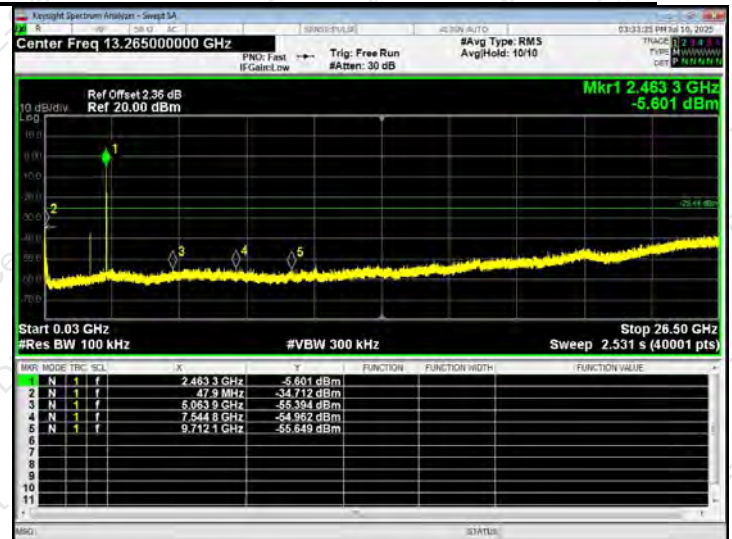
Lowest channel



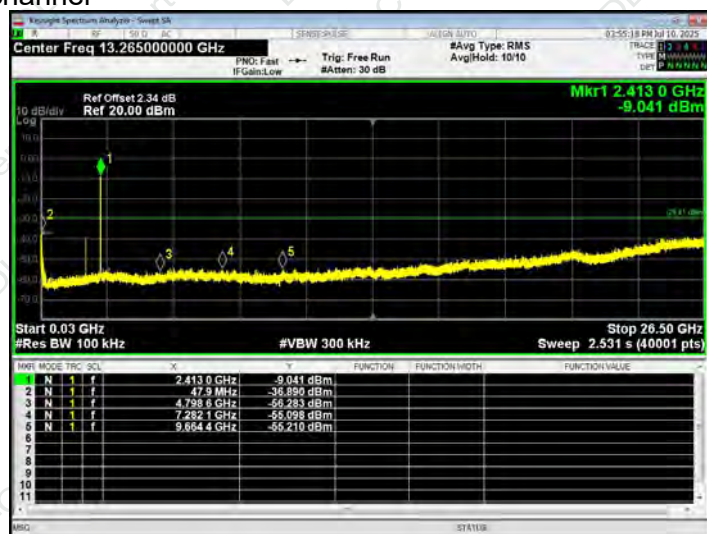
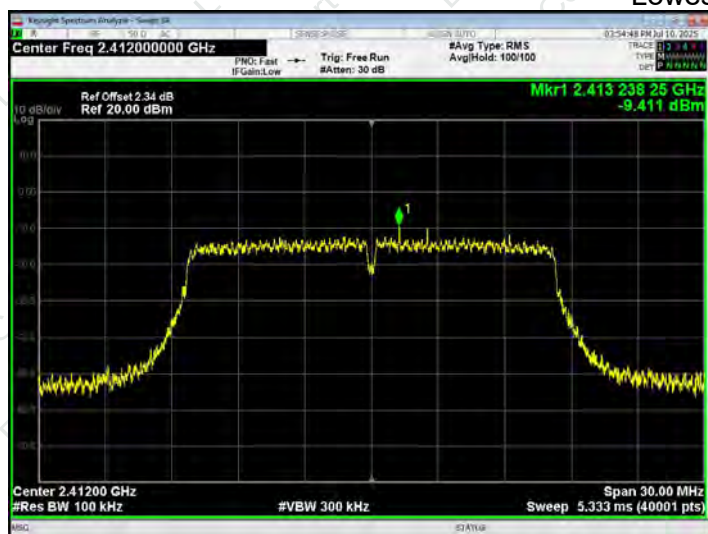
Middle channel



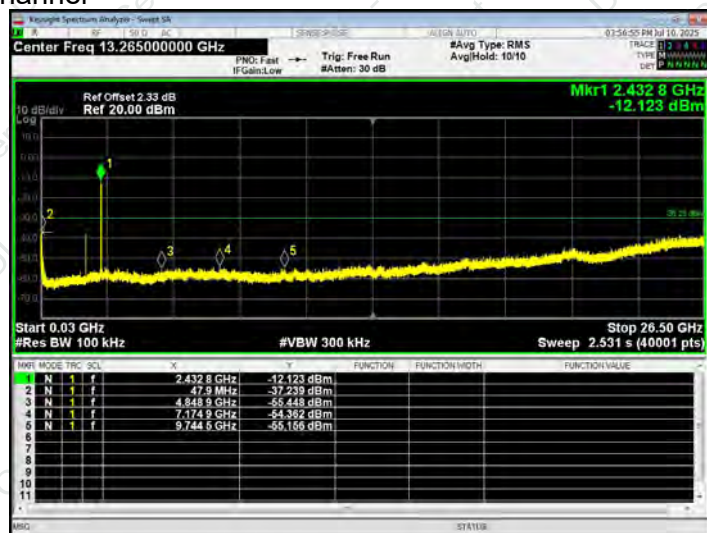
Highest channel



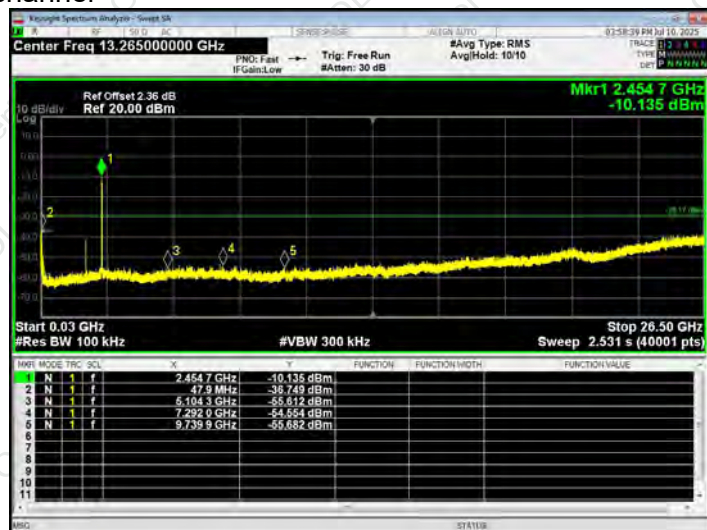
30MHz ~ 26.5GHz

802.11g
Lowest channel

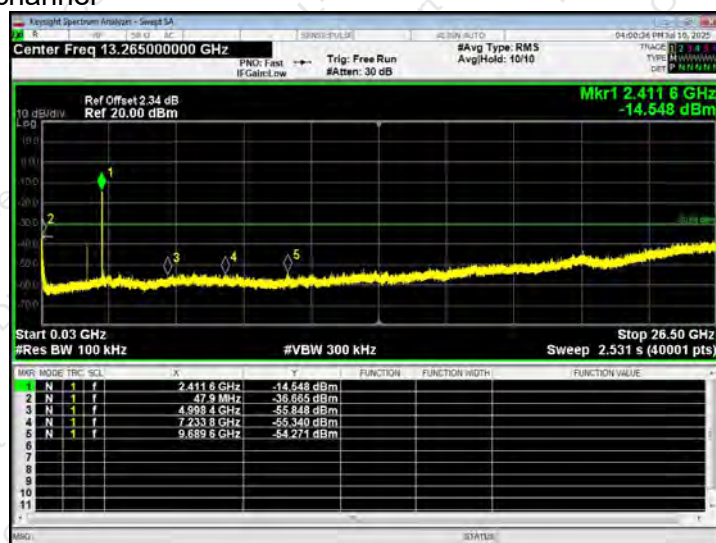
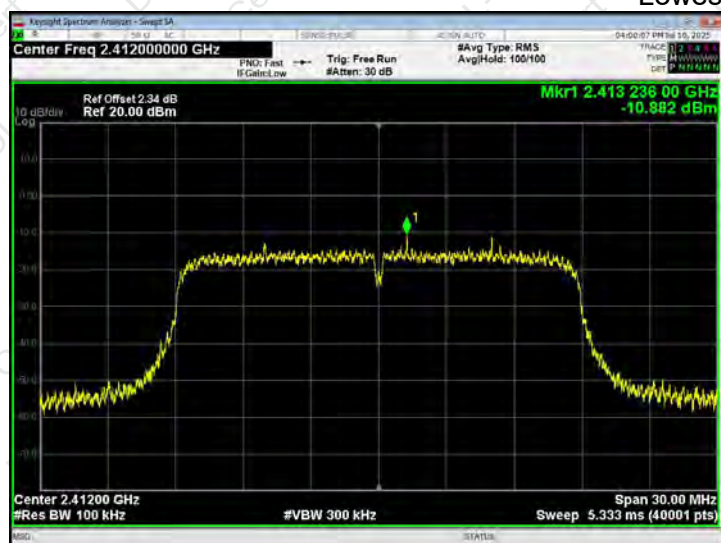
Middle channel



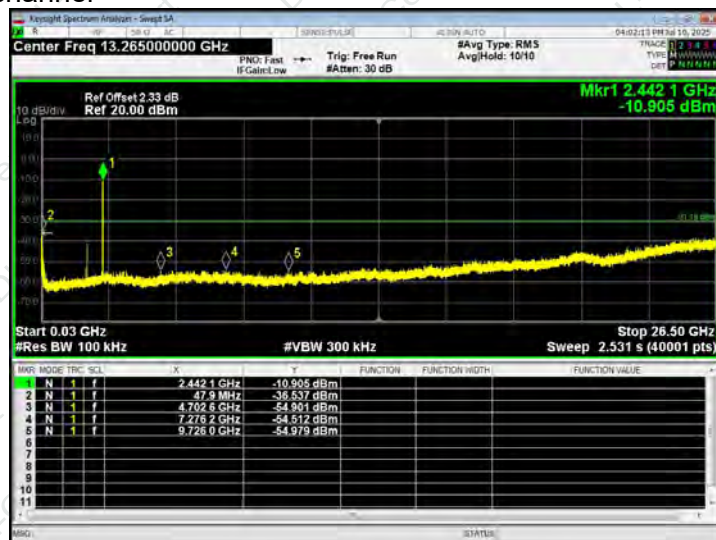
Highest channel



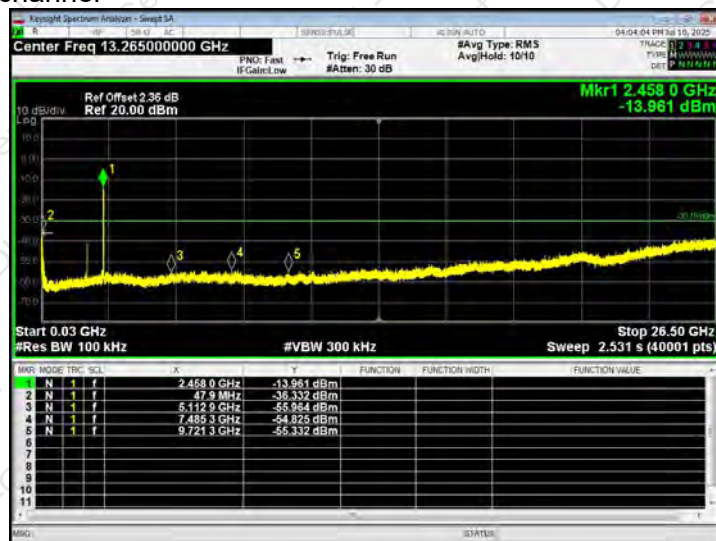
30MHz ~ 26.5GHz

802.11n20
Lowest channel

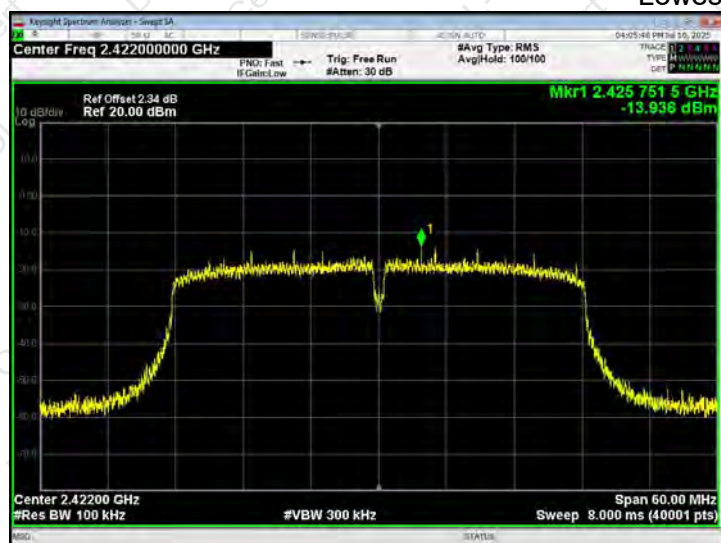
Middle channel



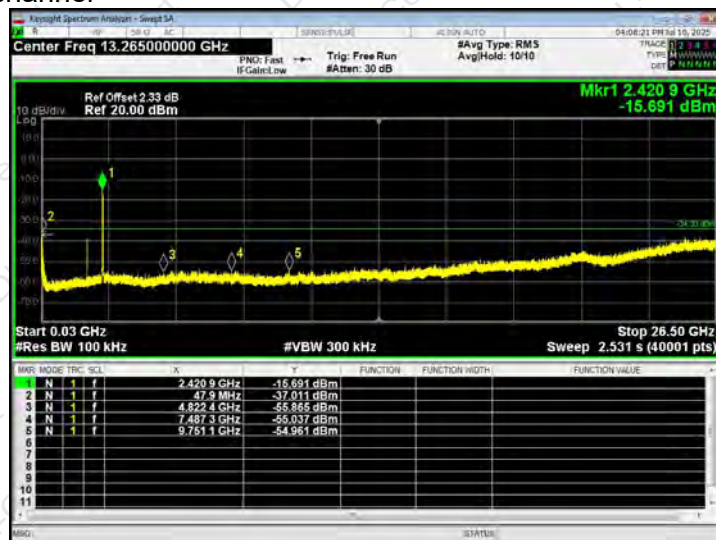
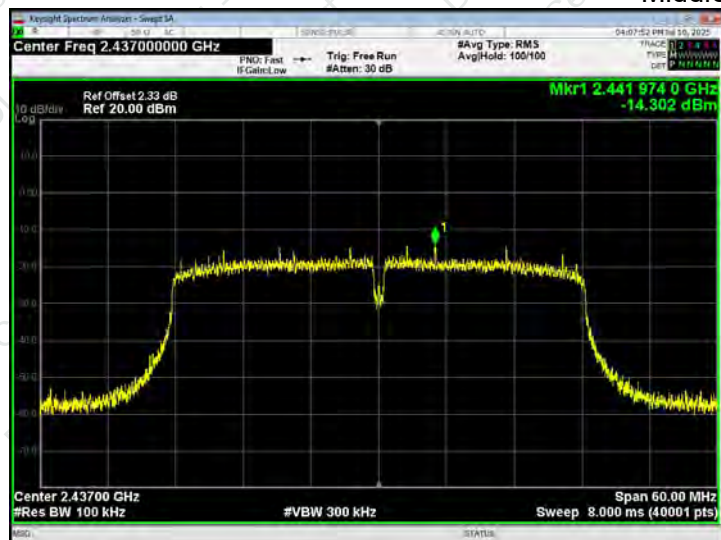
Highest channel



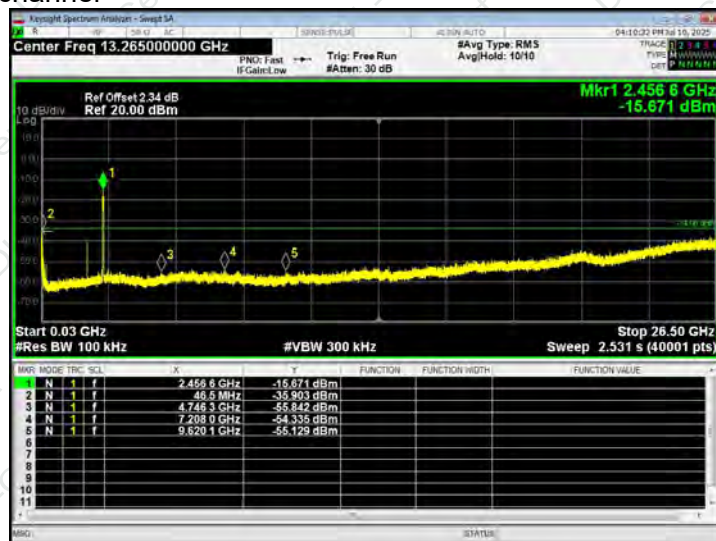
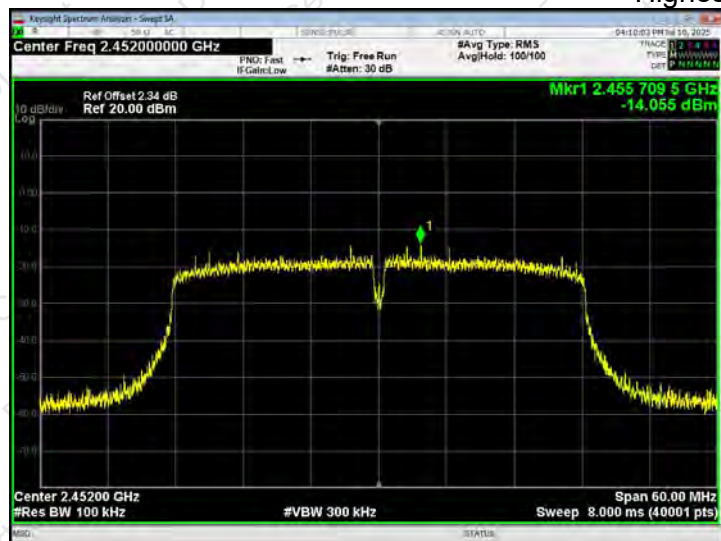
30MHz ~ 26.5GHz

802.11n40
Lowest channel

Middle channel



Highest channel



30MHz ~ 26.5GHz



10. DUTY CYCLE

Test Method:	ANSI C63.10:2013
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10.1 APPLIED PROCEDURES / LIMIT

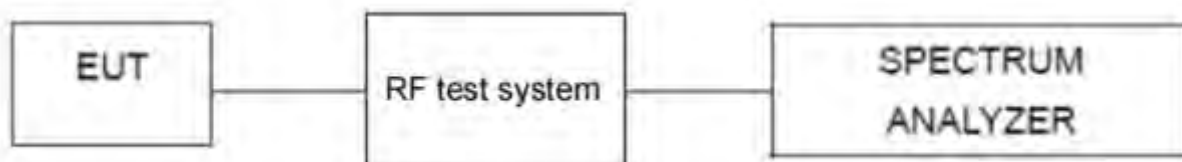
Measurements of duty cycle and transmission duration shall be performed using one of the following techniques:

- a) A diode detector and an oscilloscope that together have a sufficiently short response time to permit accurate measurements of the ON and OFF times of the transmitted signal.
- b) The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the ON and OFF times of the transmitted signal:
 - 1) Set the center frequency of the instrument to the center frequency of the transmission.
 - 2) Set $RBW \geq OBW$ if possible; otherwise, set RBW to the largest available value.
 - 3) Set $VBW \geq RBW$. Set detector = peak or average.
 - 4) The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$ and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring the duty cycle shall not be used if $T \leq 16.7 \mu s$.)

10.2 DEVIATION FROM STANDARD

No deviation.

10.3 TEST SETUP





10.4 TEST RESULTS

Temperature :	26℃	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	DC 3.7V

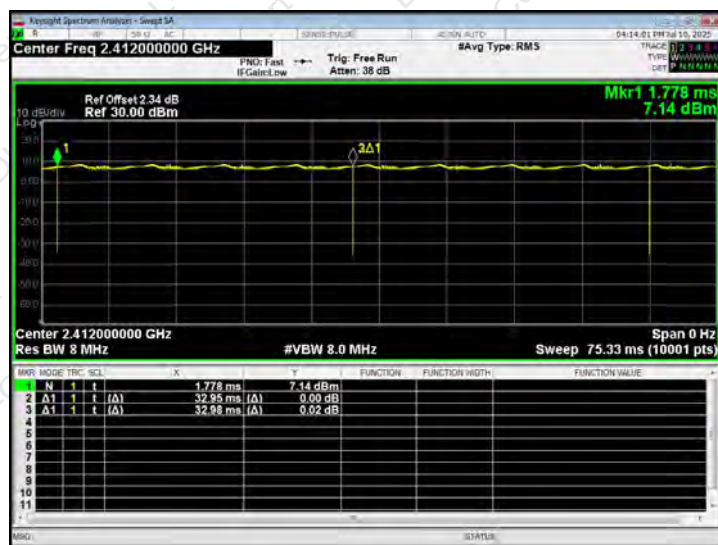
Test Mode	Test Frequency (MHz)	Duty Cycle (%)	Factor (dB)	Result
802.11b	2412	99.91	0	Pass
802.11g	2412	99.46	0	Pass
802.11n20	2412	99.41	0	Pass
802.11n40	2422	99.20	0	Pass

Note: Duty Cycle = Ton / Total * 100%;
Duty Cycle Correction Factor = 10log (1/Duty Cycle).



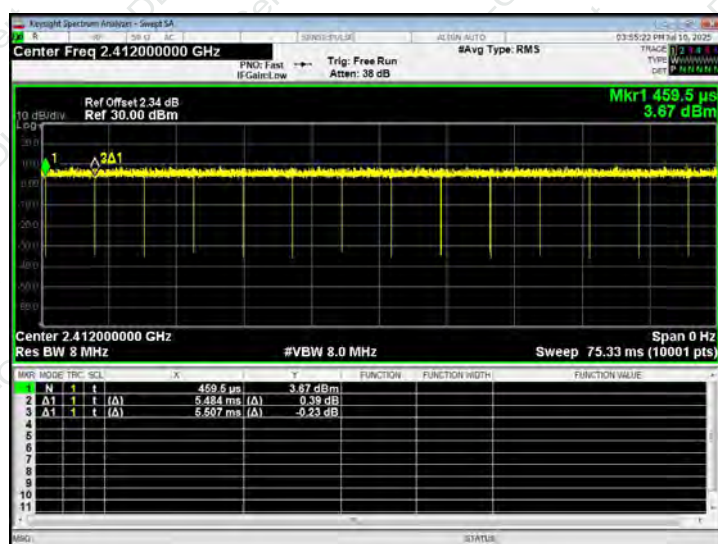
802.11b

2412MHz



802.11g

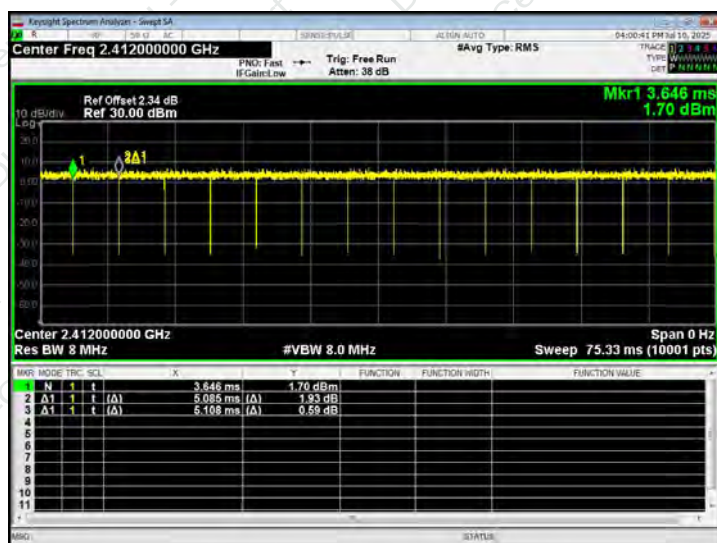
2412MHz





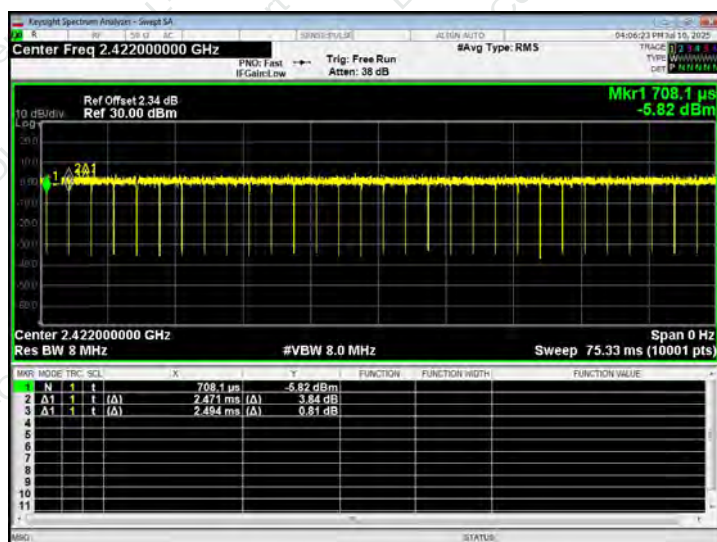
802.11n20

2412MHz



802.11n40

2422MHz



Note: All channel have been tested, and the report only reflects the worst case data.



11. ANTENNA REQUIREMENT

Standard requirement:	FCC Part15 C Section 15.203 /247(c)
15.203 requirement: 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, 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. 15.247(c) (1)(i) requirement: (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.	
EUT Antenna:	
The antenna is FPC antenna, the best case gain of the antenna is 2.06dBi, reference to the appendix II for details.	



12. TEST SETUP PHOTO

Reference to the appendix I for details.

13. EUT CONSTRUCTIONAL DETAILS

Reference to the appendix II for details.

***** END OF REPORT *****