

FCC RADIO TEST REPORT

FCC ID: 2APYR-EDB5

Product : EDB5 Video Doorbell

Trade Name : N/A

Model Name : EDB5

Serial Model : N/A

Report No. : UNIA21082406ER-01

Prepared for

LaView Eagle-Eye Technology Inc.

17333 Freedom Way, City of Industry, CA 91748.

Prepared by

Shenzhen United Testing Technology Co., Ltd.

2F, Annex Bldg, Jiahuangyuan Tech Park, #365 Baotian 1 Rd, Tiegang Community, Xixiang Str, Bao'an District, Shenzhen, China

TEST RESULT CERTIFICATION

Applicant's name: LaView Eagle-Eye Technology Inc.

Address.....: 17333 Freedom Way, City of Industry, CA 91748.

Manufacture's Name: Shenzhen Xmitech Electronic CO., Ltd

Address.....: 888,Floor.8, Tower B,Xinnengyuan Building ,Nanhai Blvd.,Nanshan,Shenzhen,China

Product description

Product name: EDB5 Video Doorbell

Trade Mark.....: N/A

Model and/or type reference ..: N/A

Standards: FCC Rules and Regulations Part 15 Subpart C Section 15.247
KDB 558074 D01 15.247 Meas Guidance v05r02

This device described above has been tested by Shenzhen United Testing Technology Co., Ltd., 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. This report shall not be reproduced except in full, without the written approval of UNI, this document may be altered or revised by Shenzhen United Testing Technology Co., Ltd., personnel only, and shall be noted in the revision of the document.

Date of Test

Date (s) of performance of tests: Aug. 25, 2021 ~ Sep. 09, 2021

Date of Issue: Sep. 09, 2021

Test Result.....: Pass

Prepared by:

Kahn yang/Editor

Reviewer:

Sky dong/Supervisor

Approved & Authorized Signer:

Liuze/Manager

Table of Contents

Page

1 . TEST SUMMARY 5

2 . GENERAL INFORMATION 6

2.1 GENERAL DESCRIPTION OF EUT 6

2.2 CARRIER FREQUENCY OF CHANNELS 7

2.3 DESCRIPTION OF TEST MODES 7

2.4 DESCRIPTION OF TEST SETUP 8

2.5 MEASUREMENT INSTRUMENTS LIST 9

3 . CONDUCTED EMISSIONS TEST 10

3.1 CONDUCTED POWER LINE EMISSION LIMIT 10

3.2 TEST SETUP 10

3.3 TEST PROCEDURE 10

3.4 TEST RESULT 11

4.RADIATED EMISSION TEST 13

4.1 RADIATION LIMIT 13

4.2 TEST SETUP 13

4.3 TEST PROCEDURE 14

4.4 TEST RESULT 14

5. BAND EDGE 26

5.1 LIMITS 26

5.2 TEST PROCEDURE 26

5.3 TEST RESULT 26

6.OCCUPIED BANDWIDTH MEASUREMENT 32

6.1 TEST LIMIT 32

6.2 TEST PROCEDURE 32

6.3 MEASUREMENT EQUIPMENT USED 32

6.4 TEST RESULT 32

7.POWER SPECTRAL DENSITY TEST 39

7.1 TEST LIMIT 39

7.2 TEST PROCEDURE 39

7.3 MEASUREMENT EQUIPMENT USED 39

7.4 TEST RESULT 39

8.PEAK OUTPUT POWER TEST 46

8.1 TEST LIMIT 46

8.2 TEST PROCEDURE 46

8.3 TEST RESULT 46

9.OUT OF BAND EMISSIONS TEST 47

9.1 TEST LIMIT 47

Table of Contents

Page

9.2 TEST PROCEDURE	47
9.3 TEST SETUP	47
9.4 TEST RESULT	47
10.ANTENNA REQUIREMENT	62
11.PHOTOGRAPH OF TEST	64
11.1 RADIATED EMISSION	64
11.2 CONDUCTED EMISSION	65

1. TEST SUMMARY

1.1 TEST PROCEDURES AND RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
FCC Part 15.207	CONDUCTED EMISSIONS TEST	COMPLIANT
FCC Part 15.209(a)	RADIATED EMISSION TEST	COMPLIANT
FCC Part 15.247(d)	BAND EDGE	COMPLIANT
FCC Part 15.247(a)(2)	OCCUPIED BANDWIDTH MEASUREMENT	COMPLIANT
FCC Part 15.247(e)	POWER SPECTRAL DENSITY	COMPLIANT
FCC Part 15.247(b)	PEAK OUTPUT POWER	COMPLIANT
FCC Part 15.247(d)	OUT OF BAND EMISSIONS	COMPLIANT
FCC Part 15.203	ANTENNA REQUIREMENT	COMPLIANT

1.2 TEST LOCATION

Test Laboratory : Shenzhen United Testing Technology Co., Ltd.

Address : 2F, Annex Bldg, Jiahuangyuan Tech Park, #365 Baotian 1 Rd, Tiegang Community, Xixiang Str, Bao'an District, Shenzhen, China

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

CNAS-LAB Code: L6964

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of testing Laboratories.

Designation Number: CN1227

Test Firm Registration Number: 674885

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files.

1.3 MEASUREMENT UNCERTAINTY

Measurement Uncertainty		
Conducted Emission Expanded Uncertainty	=	2.23dB, k=2
Radiated emission expanded uncertainty(9kHz-30MHz)	=	3.08dB, k=2
Radiated emission expanded uncertainty(30MHz-1000MHz)	=	4.42dB, k=2
Radiated emission expanded uncertainty(Above 1GHz)	=	4.06dB, k=2

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

The following information of EUT submitted and identified by applicant:

Equipment	EDB5 Video Doorbell
Trade Mark	N/A
Model Name	EDB5
Serial No.	N/A
Model Difference	N/A
FCC ID	2APYR-EDB5
Antenna Type	FPC antenna
Antenna Gain	2dBi
Number of Channels	11
Output Power(Peak)	IEEE 802.11b: 14.67dBm; IEEE 802.11g: 16.60dBm; IEEE 802.11n(20): 17.24dBm;
Modulation Type	CCK, OFDM, DBPSK, DAPSK
Power Source	DC 3.7V by battery

2.2 CARRIER FREQUENCY OF CHANNELS

Frequency Band	Channel Number	Frequency
2400~2483.5MHz	1	2412 MHZ
	2	2417 MHZ
	3	2422 MHZ
	4	2427 MHZ
	5	2432 MHZ
	6	2437 MHZ
	7	2442 MHZ
	8	2447 MHZ
	9	2452 MHZ
	10	2457 MHZ
	11	2462 MHZ

Note: For 20MHz bandwidth system use Channel 1 to Channel 11. For 40MHz bandwidth system use Channel 3 to Channel 9

2.3 DESCRIPTION OF TEST MODES

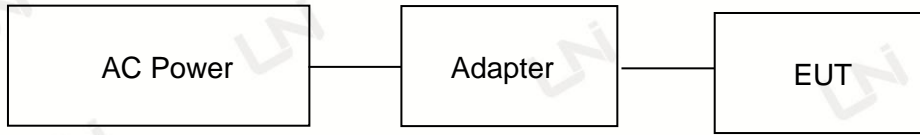
NO.	TEST MODE DESCRIPTION
1	Low channel TX(2412MHz)
2	Middle channel TX(2437MHz)
3	High channel TX(2462MHz)
Note: Transmit by 802.11b with Data rate (1/2/5.5/11) Transmit by 802.11g with Data rate (6/9/12/18/24/36/48/54) Transmit by 802.11n (20MHz) with Data rate (6.5/13/19.5/26/39/52/58.5/65)	

Note:

- The EUT has been set to operate continuously on the lowest, middle and highest operation frequency Individually, and the EUT is operating at its maximum duty cycle>or equal 98%
- All modes under which configure applicable have been tested and the worst mode test data recording in the test report, if no other mode data.
- The test software is the netcmd which can set the EUT into the individual test modes.

2.4 DESCRIPTION OF TEST SETUP

Operation of EUT during Conducted testing:



Operation of EUT during Radiation testing:

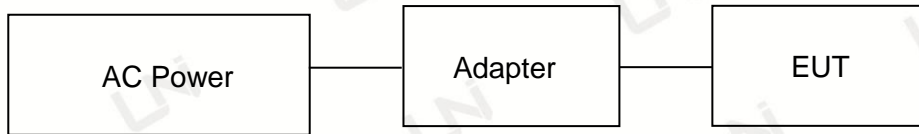


Table for auxiliary equipment:

Equipment Description	Manufacturer	Model	Calibration Due Date
Adapter	lyangel	LY024SPS-120 210VH	N/A

2.5 MEASUREMENT INSTRUMENTS LIST

Item	Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
CONDUCTED EMISSIONS TEST					
1	AMN	Schwarzbeck	NNLK8121	8121370	2021.9.9
2	AMN	ETS	3810/2	00020219	2021.9.9
3	EMI TEST RECEIVER	Rohde&Schwarz	ESCI	101210	2021.9.9
4	AAN	TESEQ	T8-Cat6	38888	2021.9.9
RADIATED EMISSION TEST					
1	Horn Antenna	Sunol	DRH-118	A101415	2021.9.29
2	BicoNILog Antenna	Sunol	JB1 Antenna	A090215	2021.9.29
3	PREAMP	HP	8449B	3008A00160	2021.9.9
4	PREAMP	HP	8447D	2944A07999	2021.9.9
5	EMI TEST RECEIVER	Rohde&Schwarz	ESR3	101891	2021.9.9
6	VECTOR Signal Generator	Rohde&Schwarz	SMU200A	101521	2021.9.28
7	Signal Generator	Agilent	E4421B	MY4335105	2021.9.28
8	MXA Signal Analyzer	Agilent	N9020A	MY50510140	2021.9.28
9	MXA Signal Analyzer	Agilent	N9020A	MY51110104	2021.9.9
10	ANT Tower&Turn table Controller	Champro	EM 1000	60764	2021.9.28
11	Anechoic Chamber	Taihe Maorui	9m*6m*6m	966A0001	2021.9.9
12	Shielding Room	Taihe Maorui	6.4m*4m*3m	643A0001	2021.9.9
13	RF Power sensor	DARE	RPR3006W	15I00041SNO88	2022.3.14
14	RF Power sensor	DARE	RPR3006W	15I00041SNO89	2022.3.14
15	RF power divider	Anritsu	K241B	992289	2021.9.28
16	Wideband radio communication tester	Rohde&Schwarz	CMW500	154987	2021.9.28
17	Biconical antenna	Schwarzbeck	VHA 9103	91032360	2021.9.8
18	Biconical antenna	Schwarzbeck	VHA 9103	91032361	2021.9.8
19	Broadband Hybrid Antennas	Schwarzbeck	VULB9163	VULB9163#958	2021.9.8
20	Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1680	2022.1.12
21	Active Receive Loop Antenna	Schwarzbeck	FMZB 1919B	00023	2021.9.8
22	Horn Antenna	A-INFOMW	LB-180400-KF	J211060660	2022.3.14
23	Microwave Broadband Preamplifier	Schwarzbeck	BBV 9721	100472	2021.9.8
24	Active Loop Antenna	Com-Power	AL-130R	10160009	2022.5.9
25	Power Meter	KEYSIGHT	N1911A	MY50520168	2022.5.9
26	Frequency Meter	VICTOR	VC2000	997406086	2022.5.9
27	DC Power Source	HYELEC	HY5020E	055161818	2022.5.9

3.CONDUCTED EMISSIONS TEST

3.1 CONDUCTED POWER LINE EMISSION LIMIT

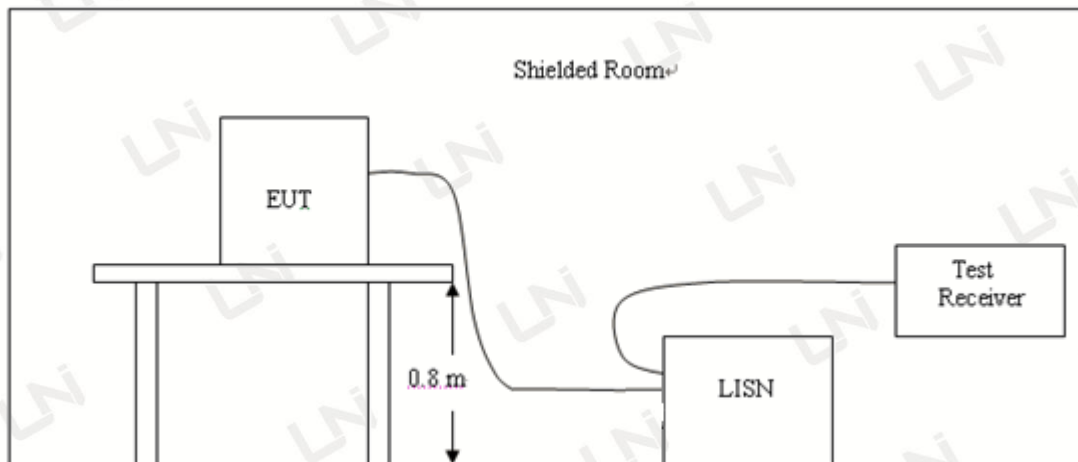
For unintentional device, according to § 15.207 Line Conducted Emission Limits is as following

Frequency (MHz)	Maximum RF Line Voltage(dB μ V)			
	CLASS A		CLASS B	
	Q.P.	Average.	Q.P.	Average.
0.15~0.50	79	66	66~56*	56~46*
0.50~5.00	73	60	56	46
5.00~30.0	73	60	60	50

* Decreasing linearly with the logarithm of the frequency

For intentional device, according to §15.207(a) Line Conducted Emission Limit is same as above table.

3.2 TEST SETUP



3.3 TEST PROCEDURE

- 1, The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. A wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10.
- 2, Support equipment, if needed, was placed as per ANSI C63.10.
- 3, All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4, If a EUT received DC power from the USB Port of Notebook PC, the PC's adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5, All support equipments received AC power from a second LISN, if any.
- 6, The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7, Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.

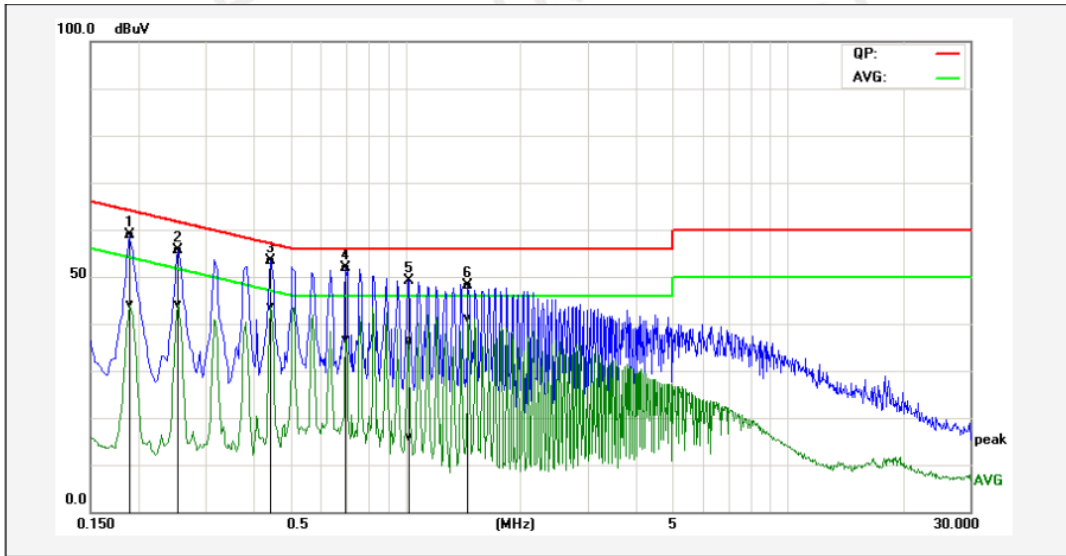
3.4 TEST RESULT

Pass

Remark:

1. All modes were tested at AC 120V and 240V, only the worst result of AC 120V was reported.
2. All modes were tested at Low, Middle, and High channel, only the worst result of 802.11b High Channel was reported as below:

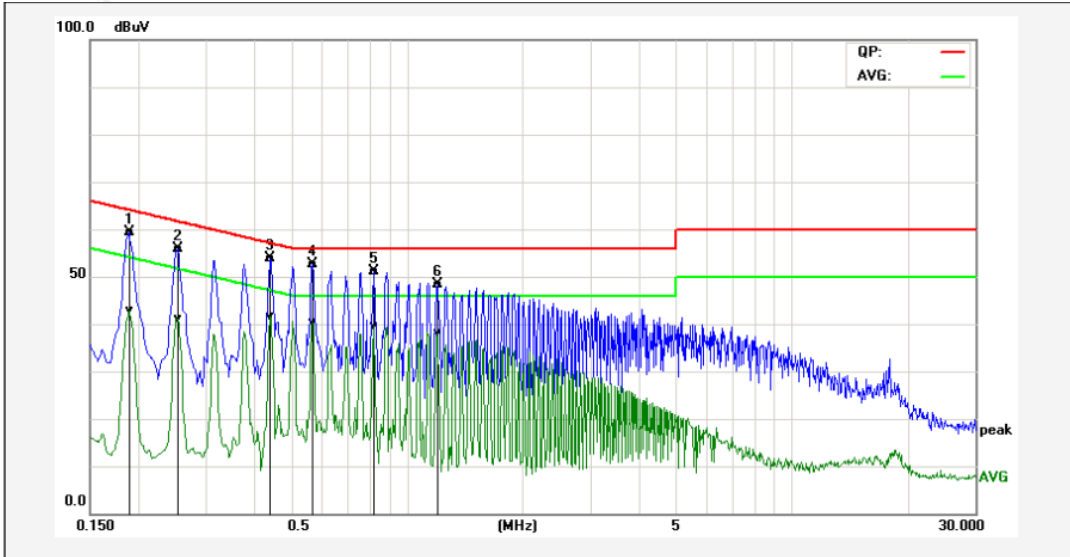
Temperature:	24°C	Relative Humidity:	48%
Test Date:	Aug. 27, 2021	Pressure:	1030hPa
Test Voltage:	AC 120V, 60Hz	Phase:	Line
Test Mode:	Transmitting mode of 802.11b 2462MHz		



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1P	0.1900	49.18	34.44	9.71	58.89	44.15	64.03	54.04	-5.14	-9.89	Pass
2P	0.2540	45.80	34.30	9.78	55.58	44.08	61.62	51.63	-6.04	-7.55	Pass
3*	0.4460	43.54	33.88	9.80	53.34	43.68	56.95	46.95	-3.61	-3.27	Pass
4P	0.6980	41.99	26.87	9.81	51.80	36.68	56.00	46.00	-4.20	-9.32	Pass
5P	1.0220	26.41	6.09	9.87	36.28	15.96	56.00	46.00	-19.72	-30.04	Pass
6P	1.4620	38.14	31.36	9.89	48.03	41.25	56.00	46.00	-7.97	-4.75	Pass

Remark: Factor = Insertion Loss + Cable Loss, Result = Reading + Factor, Margin = Result – Limit.

Temperature:	24°C	Relative Humidity:	48%
Test Date:	Aug. 27, 2021	Pressure:	1030hPa
Test Voltage:	AC 120V, 60Hz	Phase:	Neutral
Test Mode:	Transmitting mode of 802.11b 2462MHz		



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1P	0.1900	49.75	33.30	9.60	59.35	42.90	64.03	54.04	-4.68	-11.14	Pass
2P	0.2540	46.29	31.42	9.67	55.96	41.09	61.62	51.63	-5.66	-10.54	Pass
3*	0.4420	44.14	31.85	9.69	53.83	41.54	57.02	47.02	-3.19	-5.48	Pass
4P	0.5700	43.04	30.60	9.69	52.73	40.29	56.00	46.00	-3.27	-5.71	Pass
5P	0.8220	41.28	29.87	9.75	51.03	39.62	56.00	46.00	-4.97	-6.38	Pass
6P	1.2020	38.71	28.48	9.74	48.45	38.22	56.00	46.00	-7.55	-7.78	Pass

Remark: Factor = Insertion Loss + Cable Loss, Result = Reading + Factor, Margin = Result – Limit.

4. RADIATED EMISSION TEST

4.1 RADIATION LIMIT

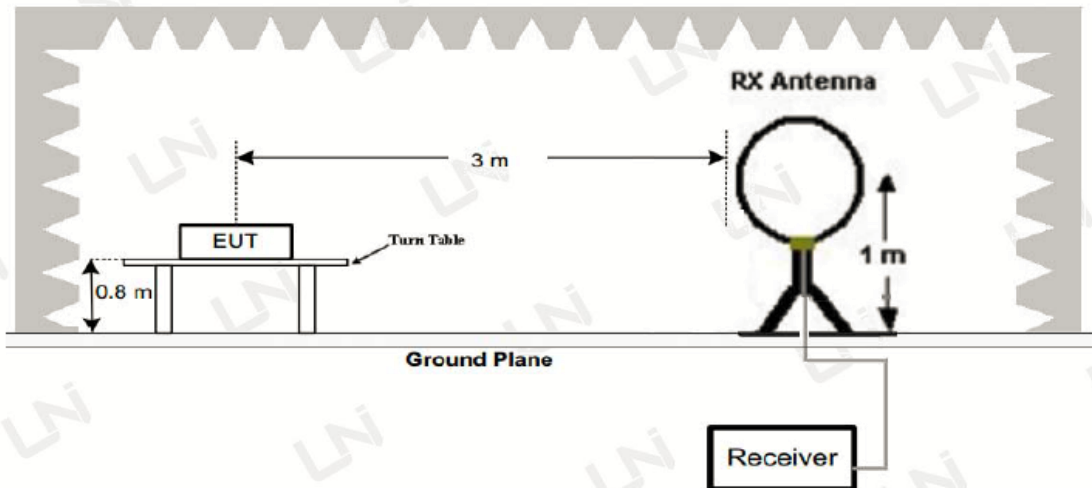
For unintentional device, according to § 15.209(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency (MHz)	Distance (Meters)	Radiated (dB μ V/m)	Radiated (μ V/m)
30-88	3	40	100
88-216	3	43.5	150
216-960	3	46	200
Above 960	3	54	500

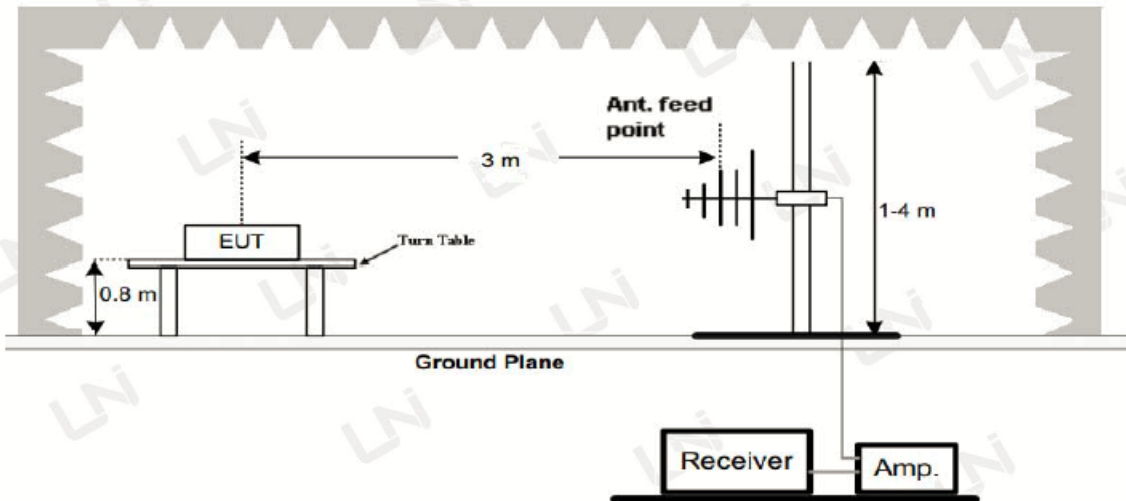
For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the above table.

4.2 TEST SETUP

1. Radiated Emission Test-Up Frequency Below 30MHz



2. Radiated Emission Test-Up Frequency 30MHz~1GHz

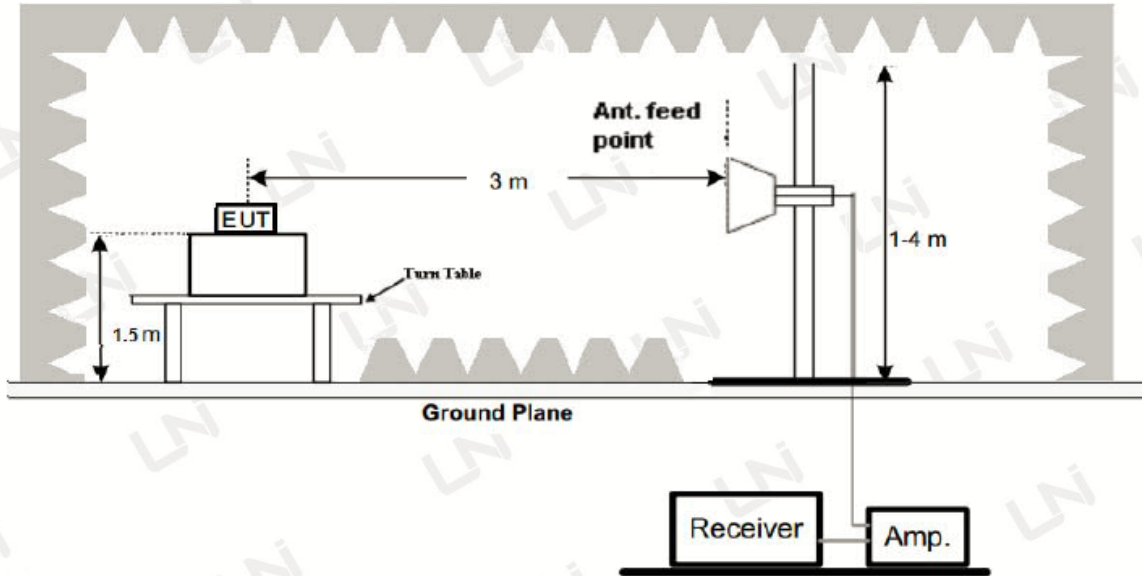


3. Radiated Emission Test-Up Frequency Above 1GHz

For unintentional device, according to § 15.209(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency (MHz)	Distance (Meters)	Radiated (dB μ V/m)	Detection method
Above 1000	3	74	PK
Above 1000	3	54	AV

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the above table.



4.3 TEST PROCEDURE

- Below 1GHz measurement the EUT is placed on turntable which is 0.8m above ground plane. And above 1GHz measurement EUT was placed on low permittivity and low tangent turn table which is 1.5m above ground plane.
- The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- Repeat above procedures until the measurements for all frequencies are complete.
- The test frequency range from 9KHz to 25GHz per FCC PART 15.33(a).

Note:

For battery operated equipment, the equipment tests shall be performed using a new battery.

4.4 TEST RESULT

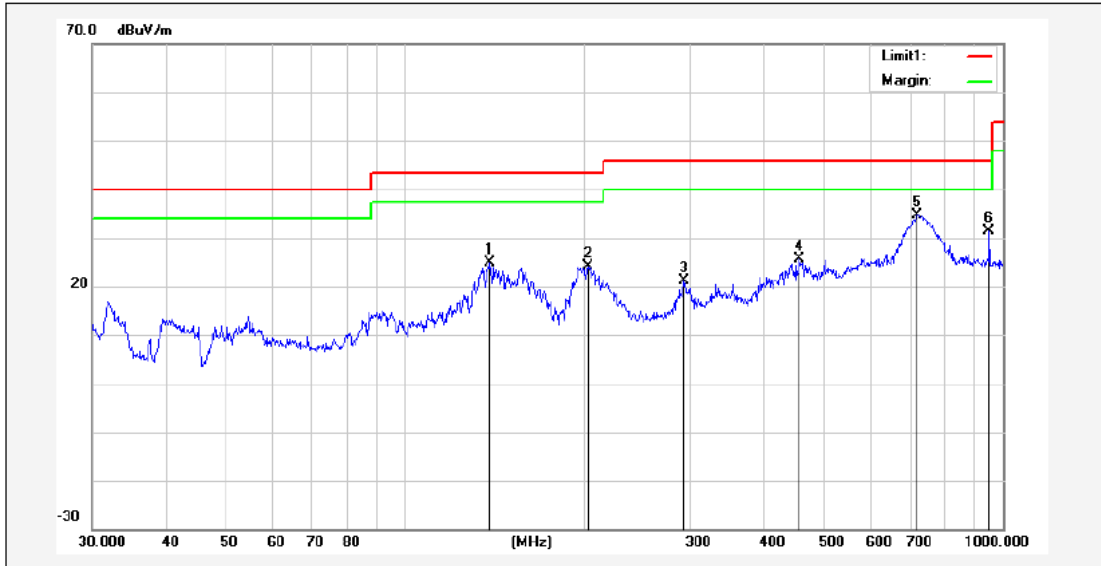
PASS

Remark:

- All modes were test at Low, Middle, and High channel, only the worst result of 802.11b High Channel was reported for below 1GHz test.
- By preliminary testing and verifying three axis (X, Y and Z) position of EUT transmitted status, it was found that "Z axis" position was the worst, and test data recorded in this report.

Below 1GHz Test Results:

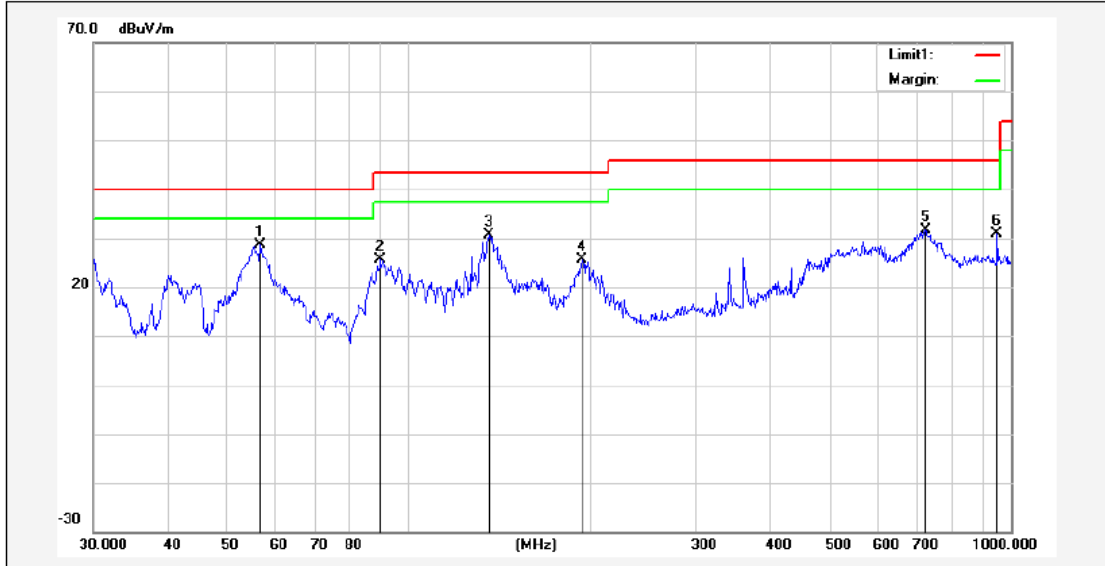
Temperature:	24°C	Relative Humidity:	48%
Test Voltage:	AC 120V, 60Hz	Pressure:	1030hPa
Test Mode:	Transmitting mode of 802.11b 2462MHz	Polarization:	Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	138.3873	40.12	-15.30	24.82	43.50	-18.68	105	100	peak
2	202.1005	39.85	-15.74	24.11	43.50	-19.39	190	100	peak
3	293.0842	34.40	-13.27	21.13	46.00	-24.87	210	100	peak
4	457.5073	35.27	-9.73	25.54	46.00	-20.46	255	100	peak
5*	719.1995	40.57	-5.91	34.66	46.00	-11.34	336	100	peak
6	948.7610	34.12	-2.71	31.41	46.00	-14.59	81	100	peak

Remark: Absolute Level = Reading Level + Factor, Margin = Absolute Level – Limit
 Factor = Ant. Factor + Cable Loss – Pre-amplifier

Temperature:	24°C	Relative Humidity:	48%
Test Voltage:	AC 120V, 60Hz	Pressure:	1030hPa
Test Mode:	Transmitting mode of 802.11b 2462MHz	Polarization:	Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1*	56.7917	49.94	-21.40	28.54	40.00	-11.46	65	100	peak
2	89.9047	46.80	-21.25	25.55	43.50	-17.95	188	100	peak
3	135.9822	46.98	-16.42	30.56	43.50	-12.94	254	100	peak
4	194.4534	43.12	-17.61	25.51	43.50	-17.99	300	100	peak
5	721.7260	40.61	-8.87	31.74	46.00	-14.26	336	100	peak
6	948.7610	36.95	-6.15	30.80	46.00	-15.20	27	100	peak

Remark: Absolute Level = Reading Level + Factor, Margin = Absolute Level – Limit
Factor = Ant. Factor + Cable Loss – Pre-amplifier

Remark:

- (1) The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.
- (2) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (3) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.

Above 1 GHz Test Results:

CH Low of 802.11b Mode (2412MHz)

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4824	61.88	-3.64	58.24	74	-15.76	PK
4824	51.73	-3.64	48.09	54	-5.91	AV
7236	47.64	-0.95	46.69	74	-27.31	PK
7236	37.58	-0.95	36.63	54	-17.37	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4824	61.25	-3.64	57.61	74	-16.39	PK
4824	48.45	-3.64	44.81	54	-9.19	AV
7236	49.45	-0.95	48.5	74	-25.5	PK
7236	39.54	-0.95	38.59	54	-15.41	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit

CH Middle of 802.11b Mode (2437MHz)

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874	59.62	-3.51	56.11	74	-17.89	PK
4874	49.8	-3.51	46.29	54	-7.71	AV
7311	49.06	-0.82	48.24	74	-25.76	PK
7311	38.87	-0.82	38.05	54	-15.95	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874	60.24	-3.51	56.73	74	-17.27	PK
4874	50.87	-3.51	47.36	54	-6.64	AV
7311	50.47	-0.82	49.65	74	-24.35	PK
7311	39.2	-0.82	38.38	54	-15.62	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit

CH High of 802.11b Mode (2462MHz)

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type
4924	59.26	-3.43	55.83	74	-18.17	PK
4924	48.2	-3.43	44.77	54	-9.23	AV
7386	48.68	-0.75	47.93	74	-26.07	PK
7386	39.34	-0.75	38.59	54	-15.41	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type
4924	59.92	-3.43	56.49	74	-17.51	PK
4924	48.59	-3.43	45.16	54	-8.84	AV
7386	48.94	-0.75	48.19	74	-25.81	PK
7386	39.93	-0.75	39.18	54	-14.82	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit

Remark :

- (1) Measuring frequencies from 1 GHz to the 25 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed.

CH Low of 802.11g Mode (2412MHz)

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4824	57.28	-3.64	53.64	74	-20.36	PK
4824	46.67	-3.64	43.03	54	-10.97	AV
7236	49.78	-0.95	48.83	74	-25.17	PK
7236	38.70	-0.95	37.75	54	-16.25	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4824	57.90	-3.64	54.26	74	-19.74	PK
4824	46.49	-3.64	42.85	54	-11.15	AV
7236	48.93	-0.95	47.98	74	-26.02	PK
7236	39.48	-0.95	38.53	54	-15.47	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit

CH Middle of 802.11g Mode (2437MHz)

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874	56.96	-3.51	53.45	74	-20.55	PK
4874	46.17	-3.51	42.66	54	-11.34	AV
7311	48.88	-0.82	48.06	74	-25.94	PK
7311	38.69	-0.82	37.87	54	-16.13	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874	57.63	-3.51	54.12	74	-19.88	PK
4874	46.15	-3.51	42.64	54	-11.36	AV
7311	48.87	-0.82	48.05	74	-25.95	PK
7311	39.20	-0.82	38.38	54	-15.62	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit

CH High of 802.11g Mode (2462MHz)

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type
4924	58.30	-3.43	54.87	74	-19.13	PK
4924	45.13	-3.43	41.7	54	-12.3	AV
7386	48.28	-0.75	47.53	74	-26.47	PK
7386	39.07	-0.75	38.32	54	-15.68	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type
4924	58.70	-3.43	55.27	74	-18.73	PK
4924	46.02	-3.43	42.59	54	-11.41	AV
7386	47.18	-0.75	46.43	74	-27.57	PK
7386	38.40	-0.75	37.65	54	-16.35	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit

Remark :

- (1) Measuring frequencies from 1 GHz to the 25 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed.

CH Low of 802.11n/H20 Mode (2412MHz)

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4824	56.55	-3.64	52.91	74	-21.09	PK
4824	45.33	-3.64	41.69	54	-12.31	AV
7236	47.41	-0.95	46.46	74	-27.54	PK
7236	37.09	-0.95	36.14	54	-17.86	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4824	56.57	-3.64	52.93	74	-21.07	PK
4824	46.41	-3.64	42.77	54	-11.23	AV
7236	47.3	-0.95	46.35	74	-27.65	PK
7236	37.4	-0.95	36.45	54	-17.55	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit

CH Middle of 802.11n/H20 Mode (2437MHz)

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874	56.41	-3.51	52.9	74	-21.1	PK
4874	44.94	-3.51	41.43	54	-12.57	AV
7311	47.10	-0.82	46.28	74	-27.72	PK
7311	36.05	-0.82	35.23	54	-18.77	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874	55.56	-3.51	52.05	74	-21.95	PK
4874	44.33	-3.51	40.82	54	-13.18	AV
7311	47.03	-0.82	46.21	74	-27.79	PK
7311	36.65	-0.82	35.83	54	-18.17	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit

CH High of 802.11n/H20 Mode (2462MHz)

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type
4924	55.90	-3.43	52.47	74	-21.53	PK
4924	45.15	-3.43	41.72	54	-12.28	AV
7386	48.60	-0.75	47.85	74	-26.15	PK
7386	37.33	-0.75	36.58	54	-17.42	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type
4924	56.04	-3.43	52.61	74	-21.39	PK
4924	44.85	-3.43	41.42	54	-12.58	AV
7386	47.46	-0.75	46.71	74	-27.29	PK
7386	38.59	-0.75	37.84	54	-16.16	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Margin = Absolute Level – Limit

Remark :

- (1) Measuring frequencies from 1 GHz to the 25 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed.

5. BAND EDGE

5.1 LIMITS

FCC PART 15.247(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

5.2 TEST PROCEDURE

The band edge compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW to 1MHz and VBM to 3MHz to measure the peak field strength and set RMS detector to measure the average radiated field strength. The conducted RF band edge was measured by using a spectrum analyzer. Set span wide enough to capture the highest in-band emission and the emission at the band edge. Set RBW to 100 KHz and VBW to 300 KHz, to measure the conducted peak band edge.

5.3 TEST RESULT

PASS

Operation Mode: 802.11b Mode TX CH Low (2412MHz)

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2310	49.38	-5.81	43.57	74	-30.43	PK
2310	/	-5.81	/	54	/	AV
2390	59.96	-5.84	54.12	74	-19.88	PK
2390	48.20	-5.84	42.36	54	-11.64	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2310	51.04	-5.81	45.23	74	-28.77	PK
2310	/	-5.81	/	54	/	AV
2390	62.80	-5.84	56.96	74	-17.04	PK
2390	51.11	-5.84	45.27	54	-8.73	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Operation Mode: 802.11b Mode TX CH High (2462MHz)

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.5	55.83	-5.65	50.18	74	-23.82	PK
2483.5	/	-5.65	/	54	/	AV
2500	45.76	-5.72	40.04	74	-33.96	PK
2500	/	-5.72	/	54	/	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.5	56.79	-5.65	51.14	74	-22.86	PK
2483.5	/	-5.65	/	54	/	AV
2500	44.98	-5.72	39.26	74	-34.74	PK
2500	/	-5.72	/	54	/	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Operation Mode: 802.11g Mode TX CH Low (2412MHz)

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2310	48.03	-5.81	42.22	74	-31.78	PK
2310	/	-5.81	/	54	/	AV
2390	59.62	-5.84	53.78	74	-20.22	PK
2390	47.12	-5.84	41.28	54	-12.72	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2310	48.29	-5.81	42.48	74	-31.52	PK
2310	/	-5.81	/	54	/	AV
2390	61.11	-5.84	55.27	74	-18.73	PK
2390	47.67	-5.84	41.83	54	-12.17	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Operation Mode: 802.11g Mode TX CH High (2462MHz)

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.5	53.85	-5.65	48.2	74	-25.8	PK
2483.5	/	-5.65	/	54	/	AV
2500	45.52	-5.72	39.8	74	-34.2	PK
2500	/	-5.72	/	54	/	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.5	56.14	-5.65	50.49	74	-23.51	PK
2483.5	/	-5.65	/	54	/	AV
2500	45.90	-5.72	40.18	74	-33.82	PK
2500	/	-5.72	/	54	/	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Operation Mode: 802.11n/H20 Mode TX CH Low (2412MHz)

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2310	48.3	-5.81	42.49	74	-31.51	PK
2310	/	-5.81	/	54	/	AV
2390	56.91	-5.84	51.07	74	-22.93	PK
2390	43.22	-5.84	37.38	54	-16.62	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2310	48.69	-5.81	42.88	74	-31.12	PK
2310	/	-5.81	/	54	/	AV
2390	57.02	-5.84	51.18	74	-22.82	PK
2390	44.73	-5.84	38.89	54	-15.11	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Operation Mode: 802.11n/H20 Mode TX CH High (2462MHz)

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2483.5	55.10	-5.65	49.45	74	-24.55	PK
2483.5	/	-5.65	/	54	/	AV
2500	45.72	-5.72	40	74	-34	PK
2500	/	-5.72	/	54	/	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2483.5	55.83	-5.65	50.18	74	-23.82	PK
2483.5	/	-5.65	/	54	/	AV
2500	46.07	-5.72	40.35	74	-33.65	PK
2500	/	-5.72	/	54	/	AV

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

6.OCCUPIED BANDWIDTH MEASUREMENT

6.1 TEST 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 bandwidth)	2400-2483.5	PASS

6.2 TEST PROCEDURE

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Set EUT as normal operation.
3. Based on FCC Part15 C Section 15.247: RBW=100KHz, VBW=300KHz.
4. The useful radiated emission from the EUT was detected by the spectrum analyzer with peak detector.

6.3 MEASUREMENT EQUIPMENT USED

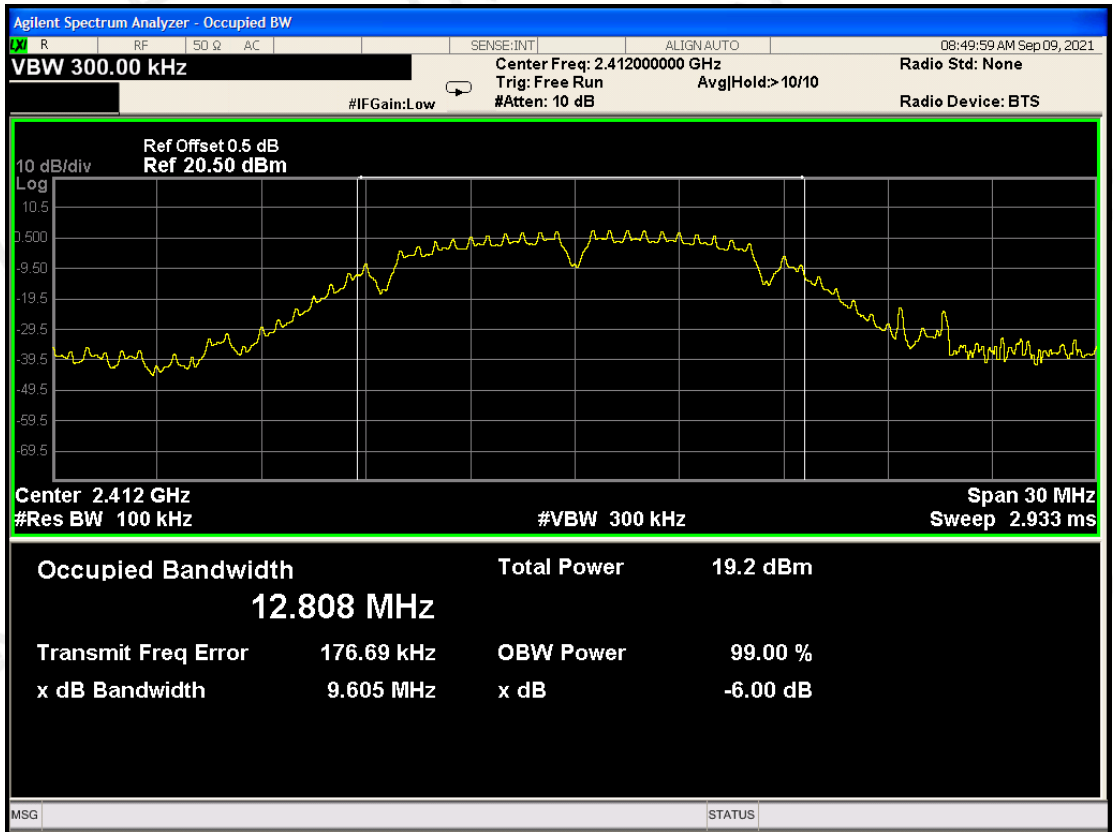
Same as Radiated Emission Measurement

6.4 TEST RESULT

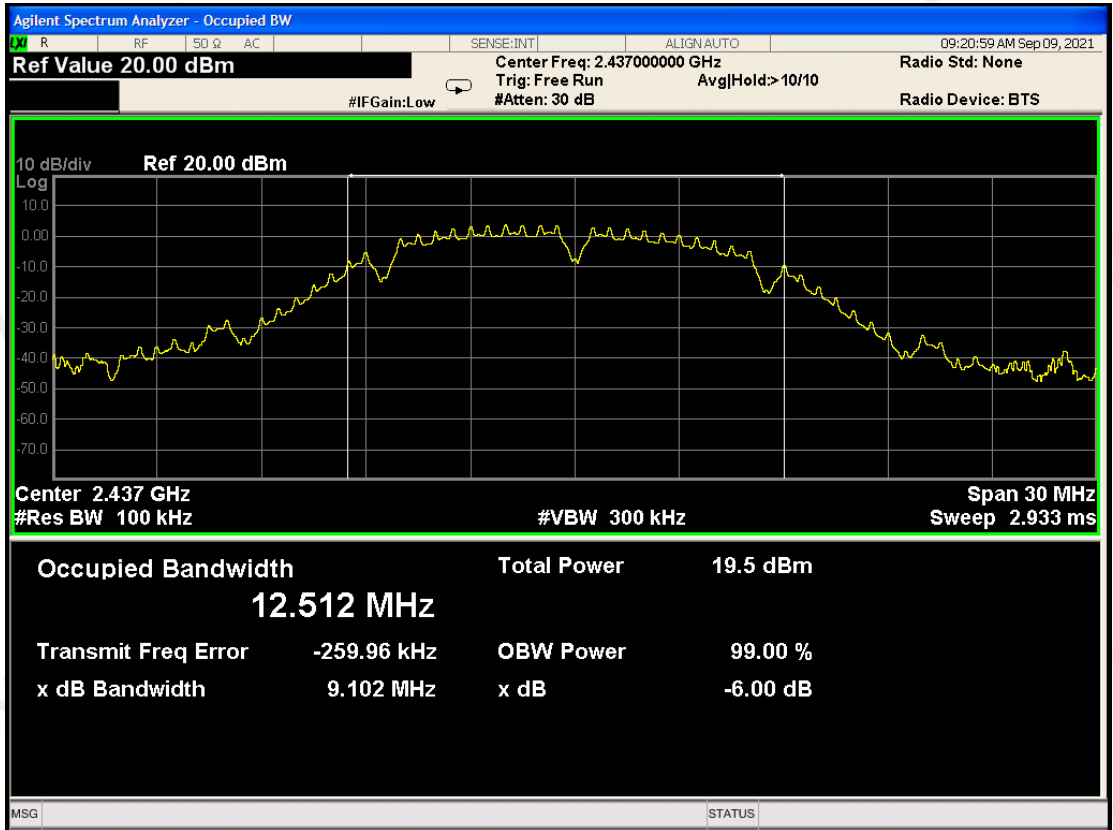
PASS

TX 802.11b Mode			
Frequency (MHz)	6dB Bandwidth (MHz)	Channel Separation (MHz)	Result
2412	9.605	$\geq 500\text{KHz}$	PASS
2437	9.102	$\geq 500\text{KHz}$	PASS
2462	9.613	$\geq 500\text{KHz}$	PASS

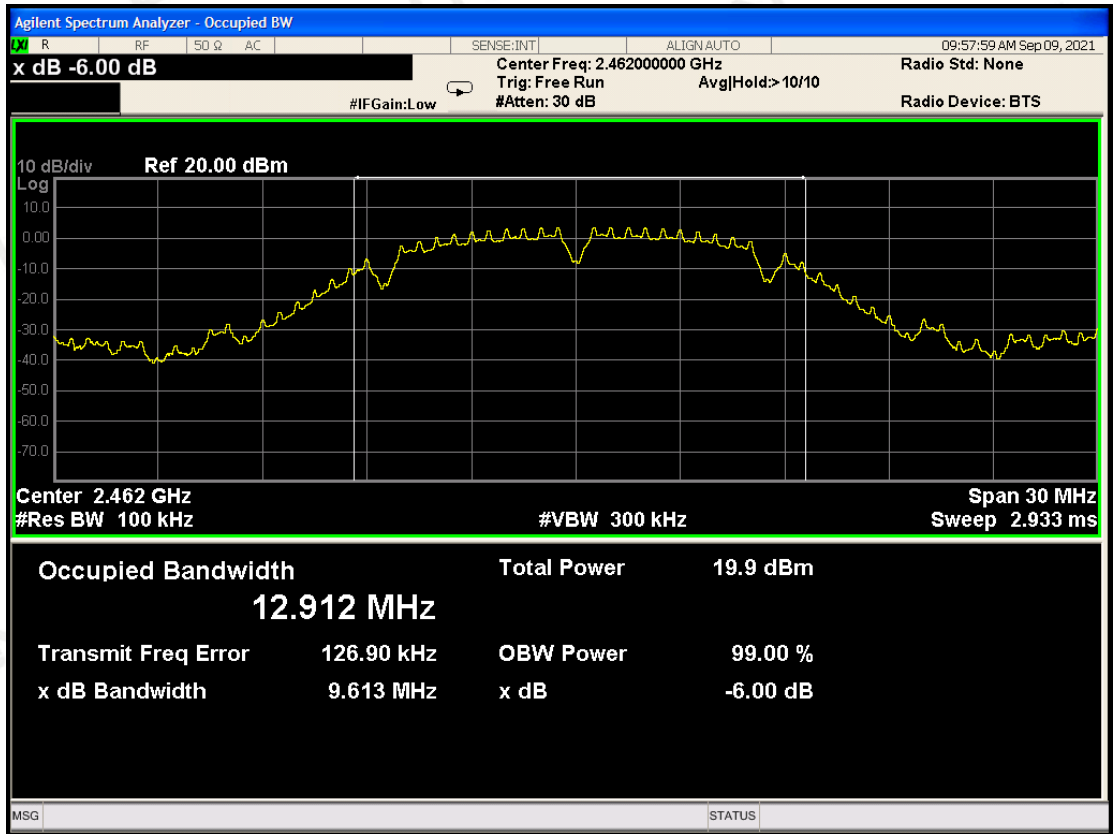
CH1: 2412MHz



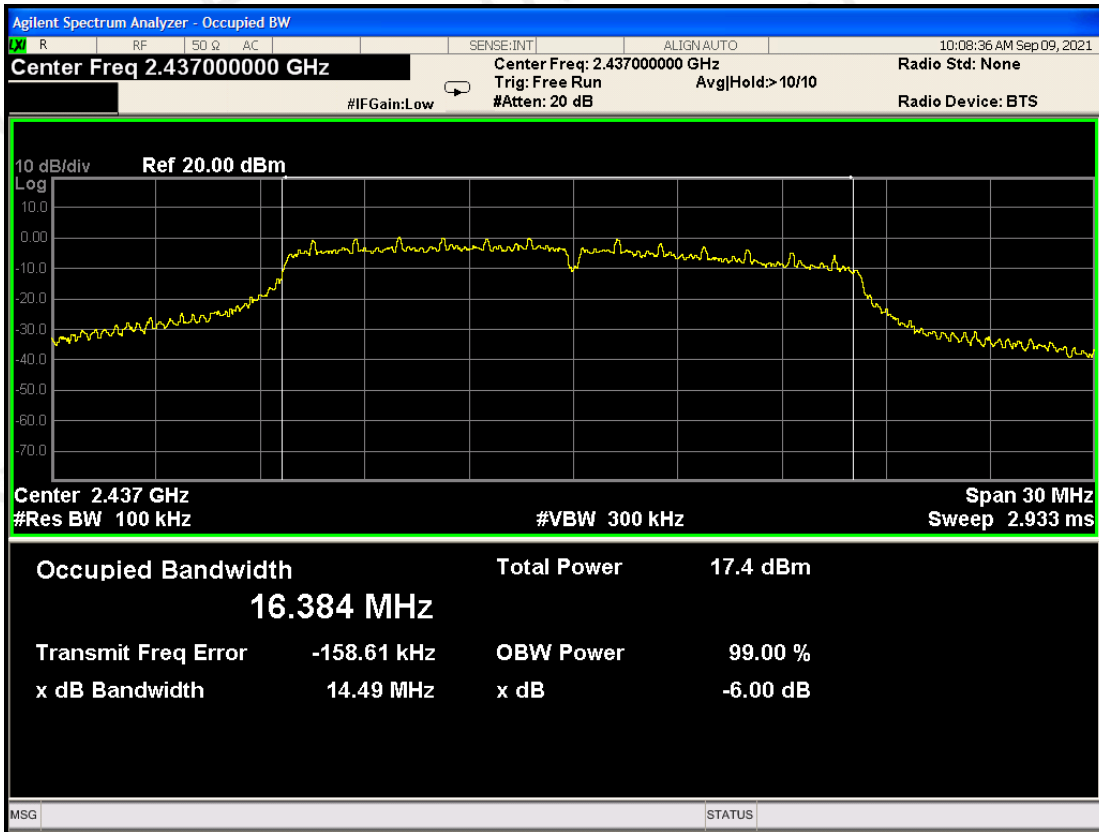
CH6: 2437MHz



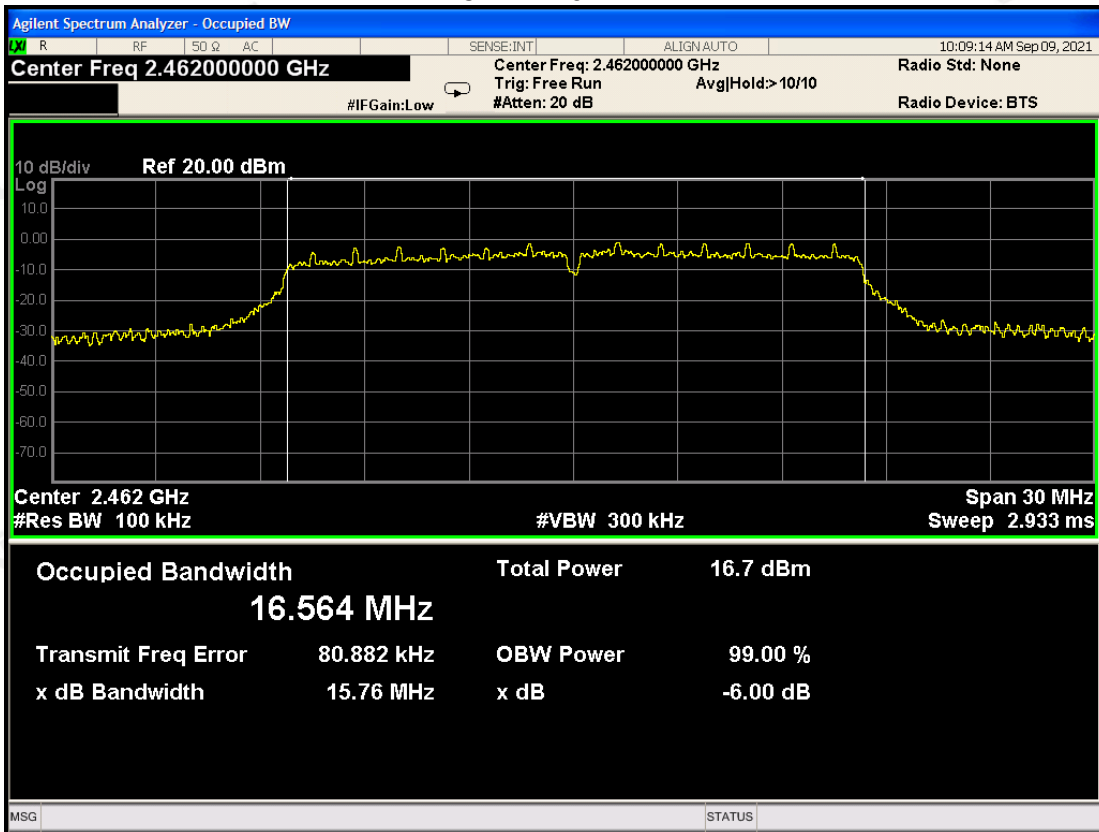
CH11: 2462MHz



CH6: 2437MHz

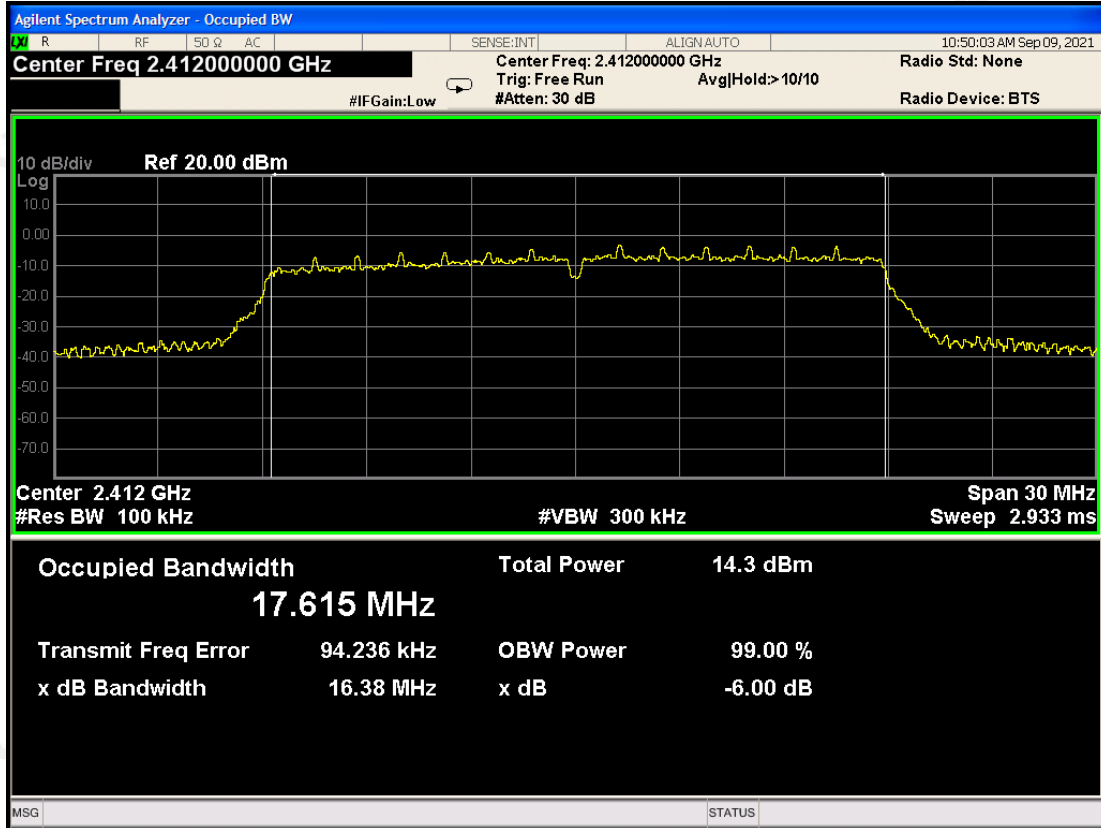


CH11: 2462MHz

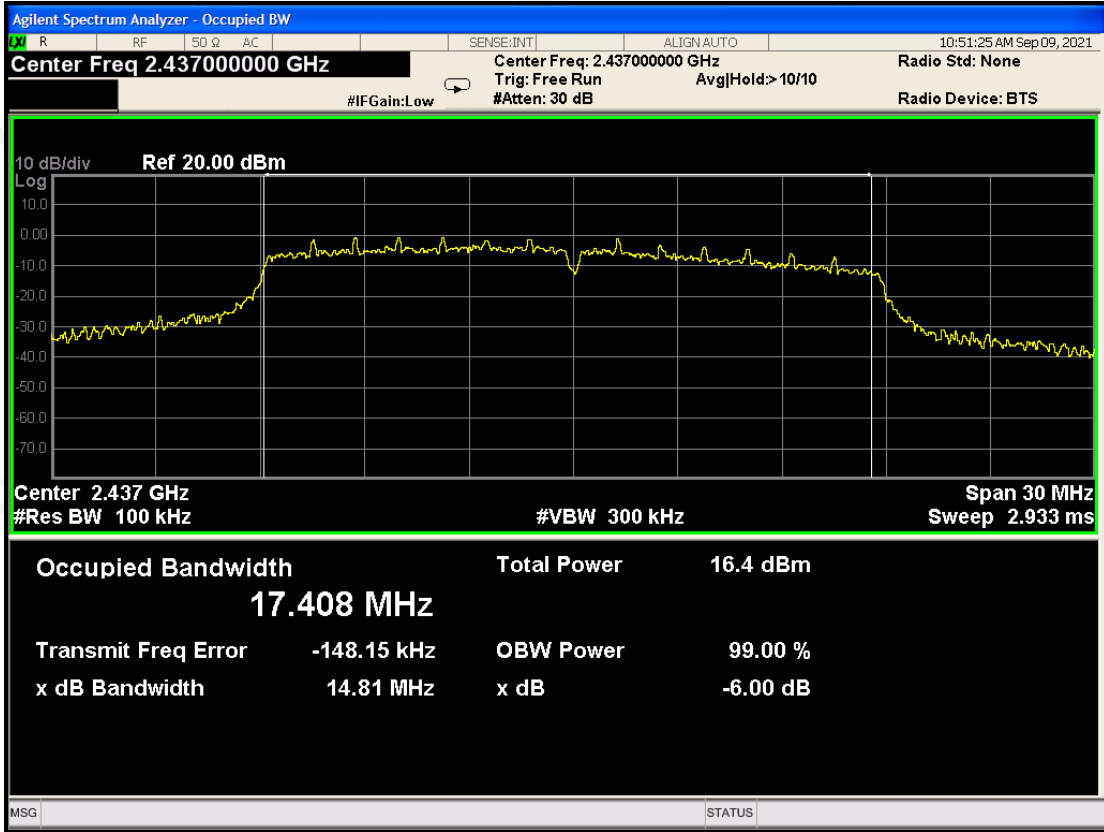


TX 802.11n/HT20 Mode			
Frequency (MHz)	6dB Bandwidth (MHz)	Channel Separation (MHz)	Result
2412	16.38	>=500KHz	PASS
2437	14.81	>=500KHz	PASS
2462	16.38	>=500KHz	PASS

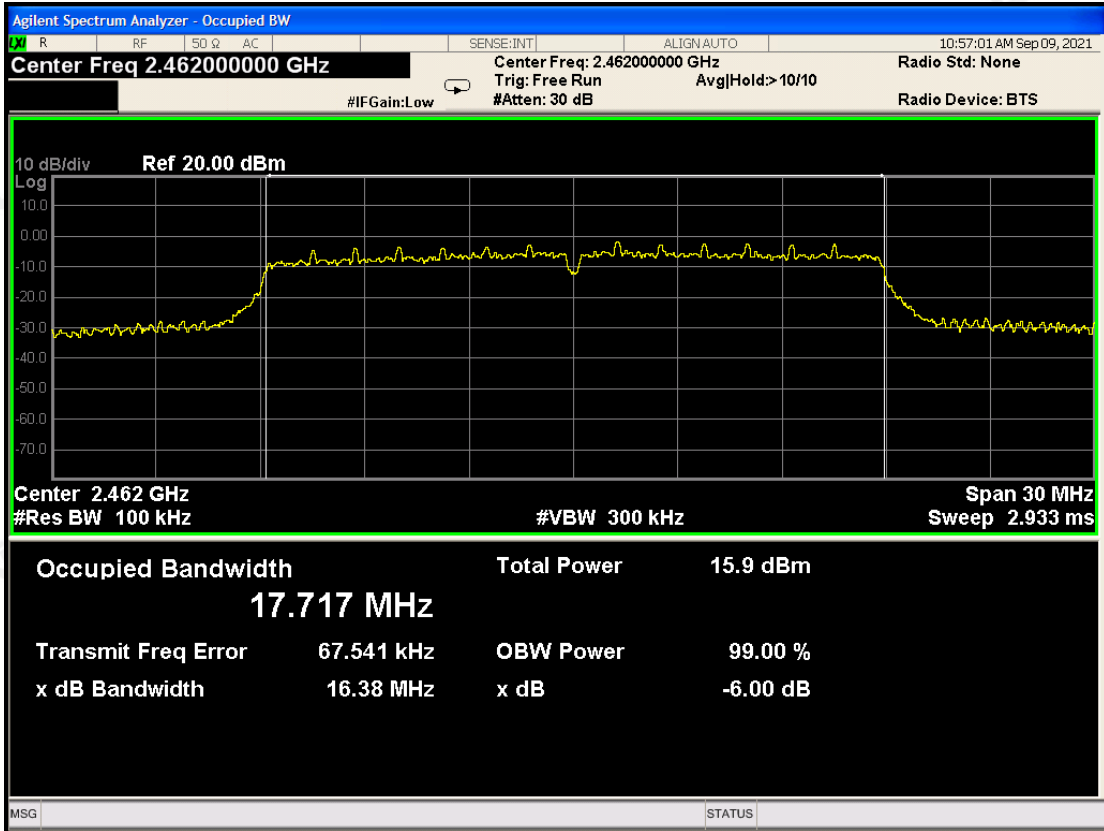
CH1: 2412MHz



CH6: 2437MHz



CH11: 2462MHz



7.POWER SPECTRAL DENSITY TEST

7.1 TEST LIMIT

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

7.2 TEST PROCEDURE

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Set EUT as normal operation.
3. Based on FCC Part15 C Section 15.247: RBW=3KHz, VBW=10KHz.
4. The useful radiated emission from the EUT was detected by the spectrum analyzer with peak detector.

7.3 MEASUREMENT EQUIPMENT USED

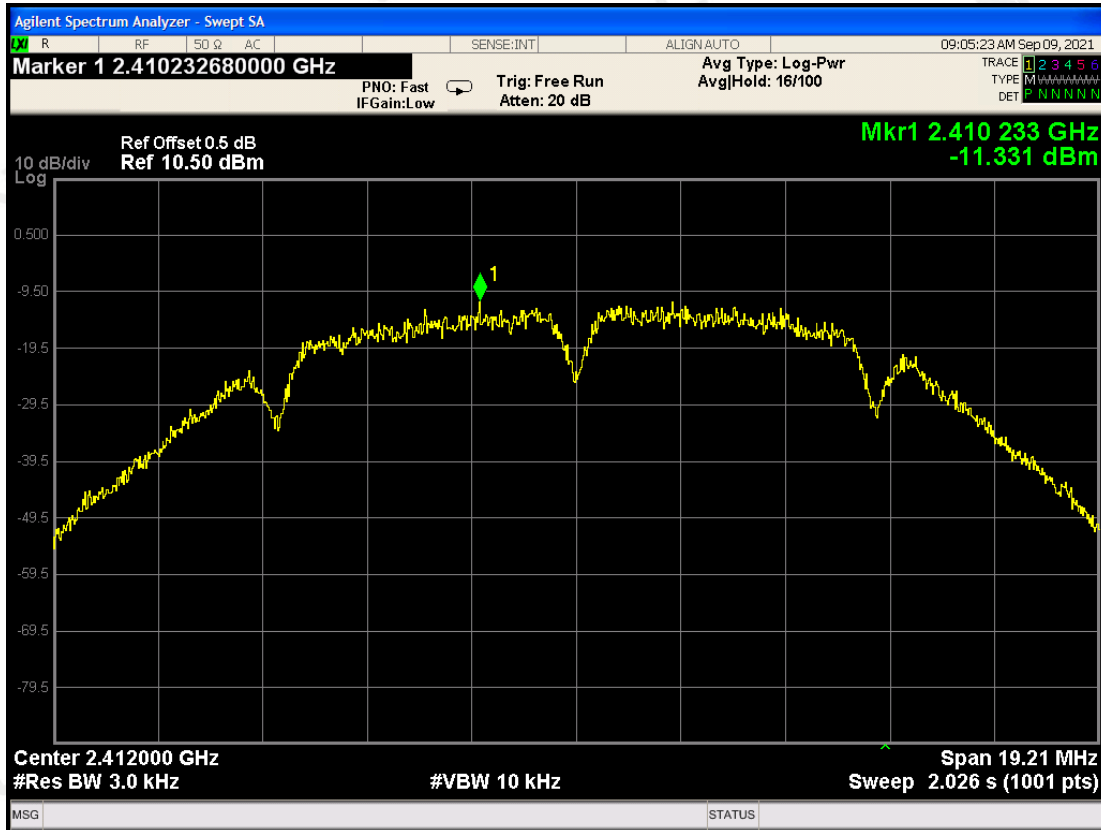
Same as Radiated Emission Measurement

7.4 TEST RESULT

PASS

TX 802.11b Mode			
Frequency (MHz)	Power Density (dBm/3KHz)	Limit (dBm/3KHz)	Result
2412	-11.331	8	PASS
2437	-10.494	8	PASS
2462	-10.246	8	PASS

CH1: 2412MHz



CH6: 2437MHz

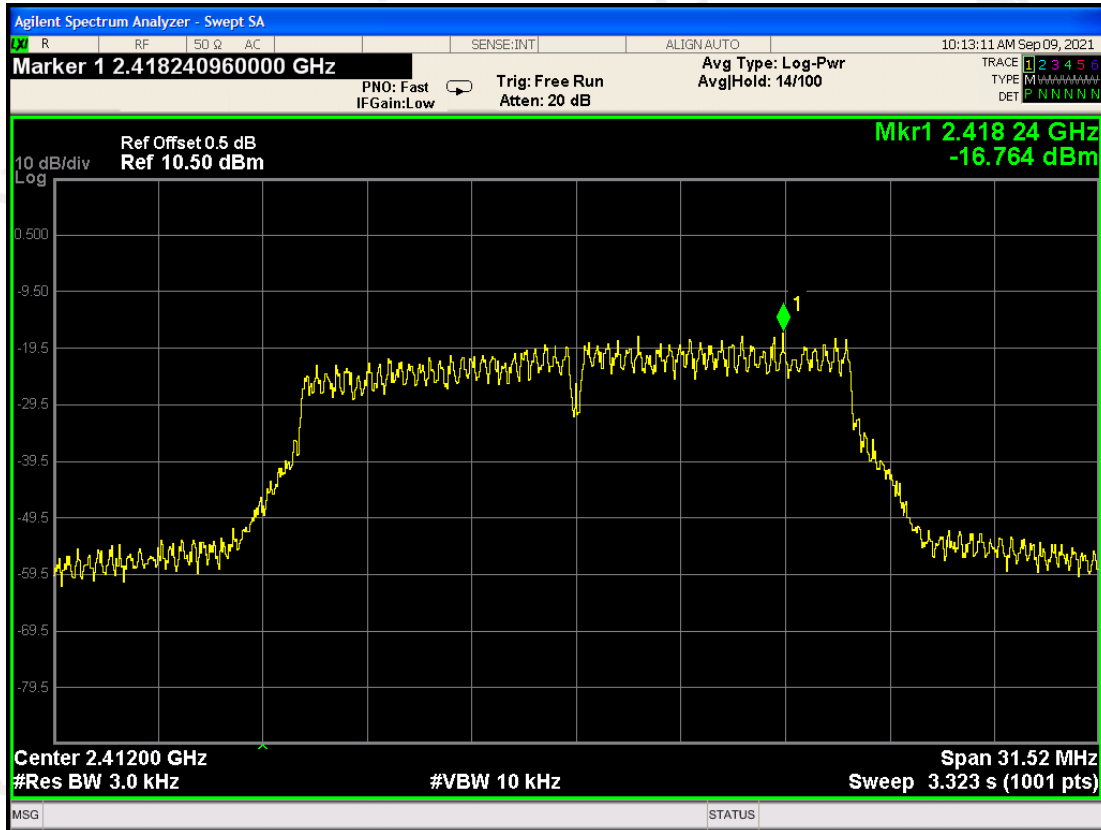


CH11: 2462MHz

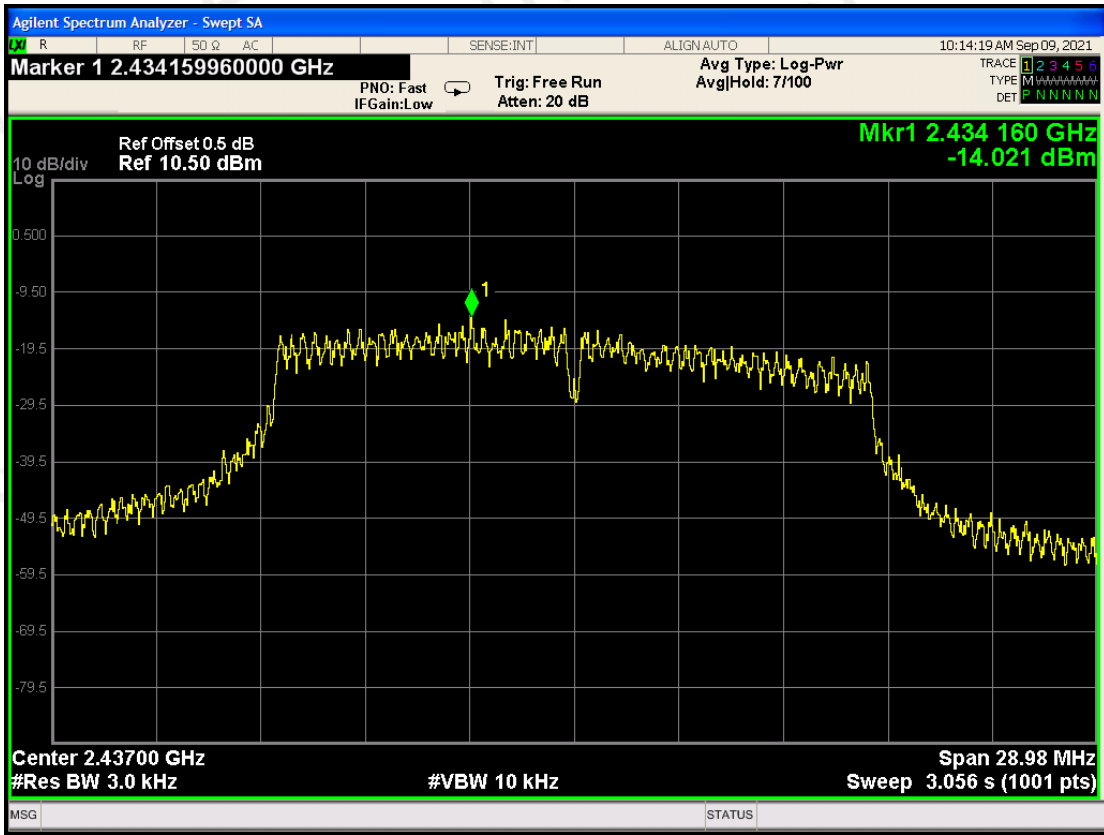


TX 802.11g Mode			
Frequency (MHz)	Power Density (dBm/3KHz)	Limit (dBm/3KHz)	Result
2412	-16.764	8	PASS
2437	-14.021	8	PASS
2462	-15.022	8	PASS

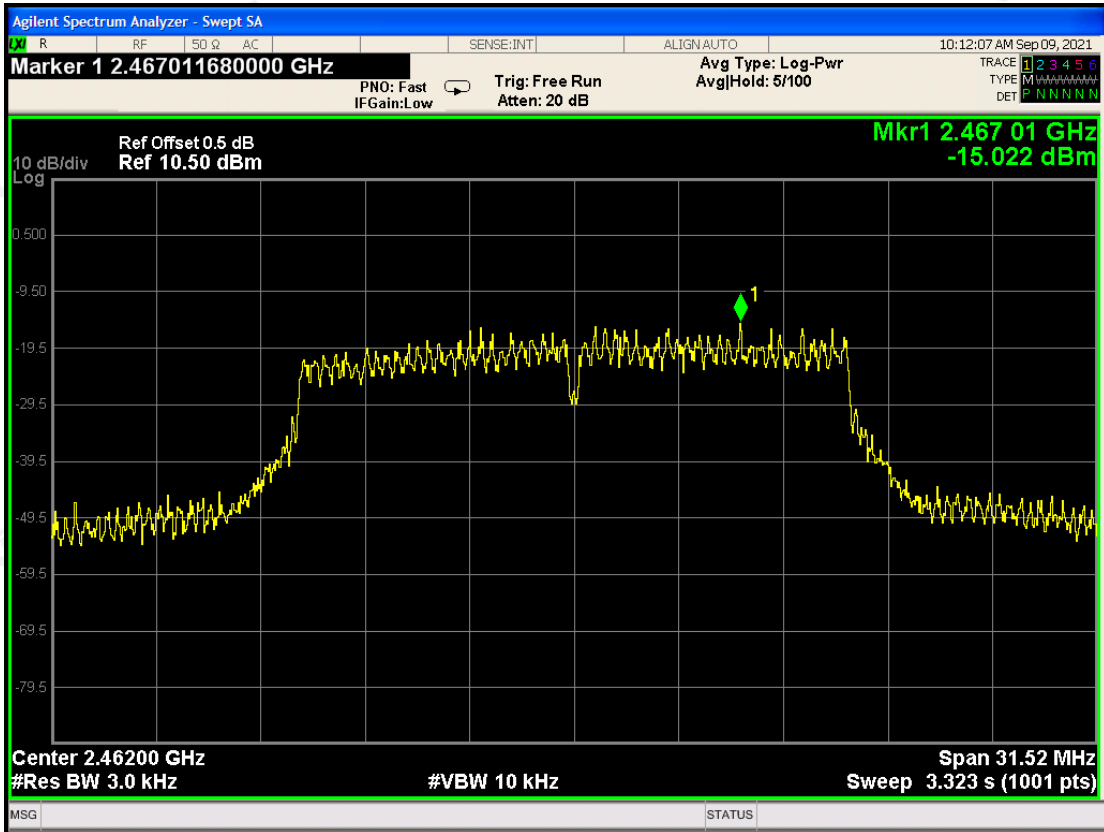
CH1: 2412MHz



CH6: 2437MHz

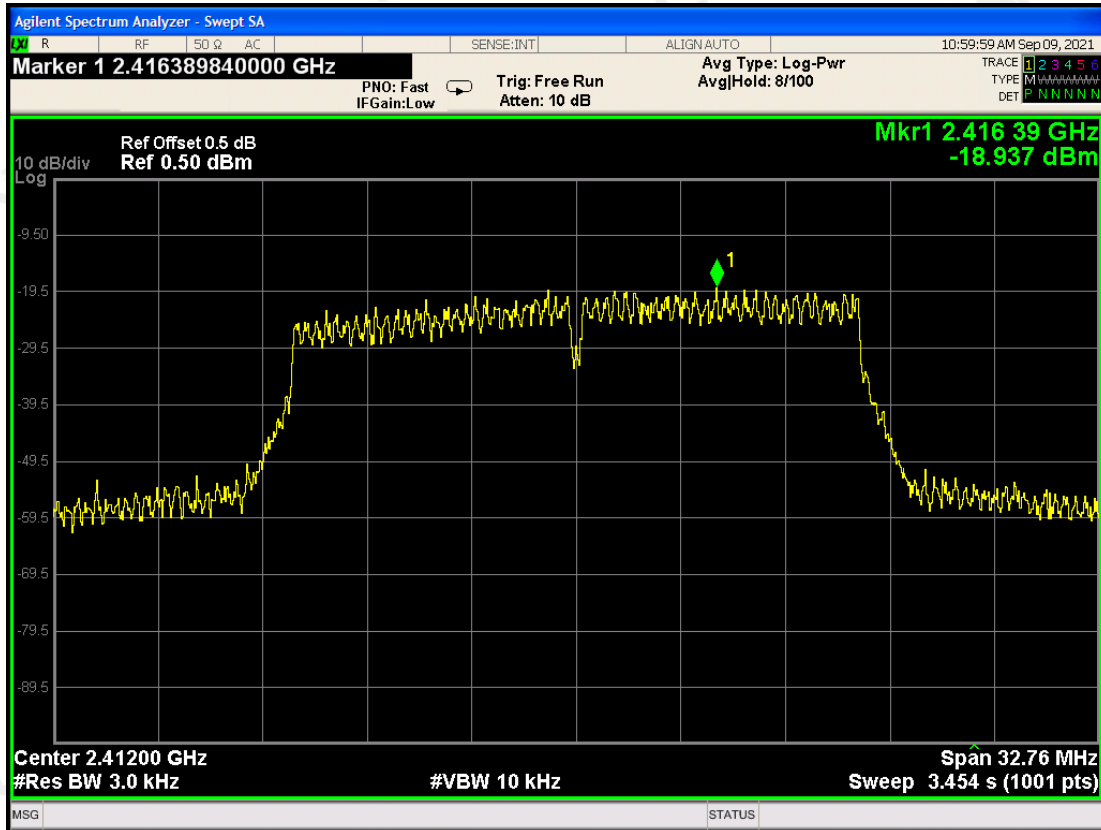


CH11: 2462MHz

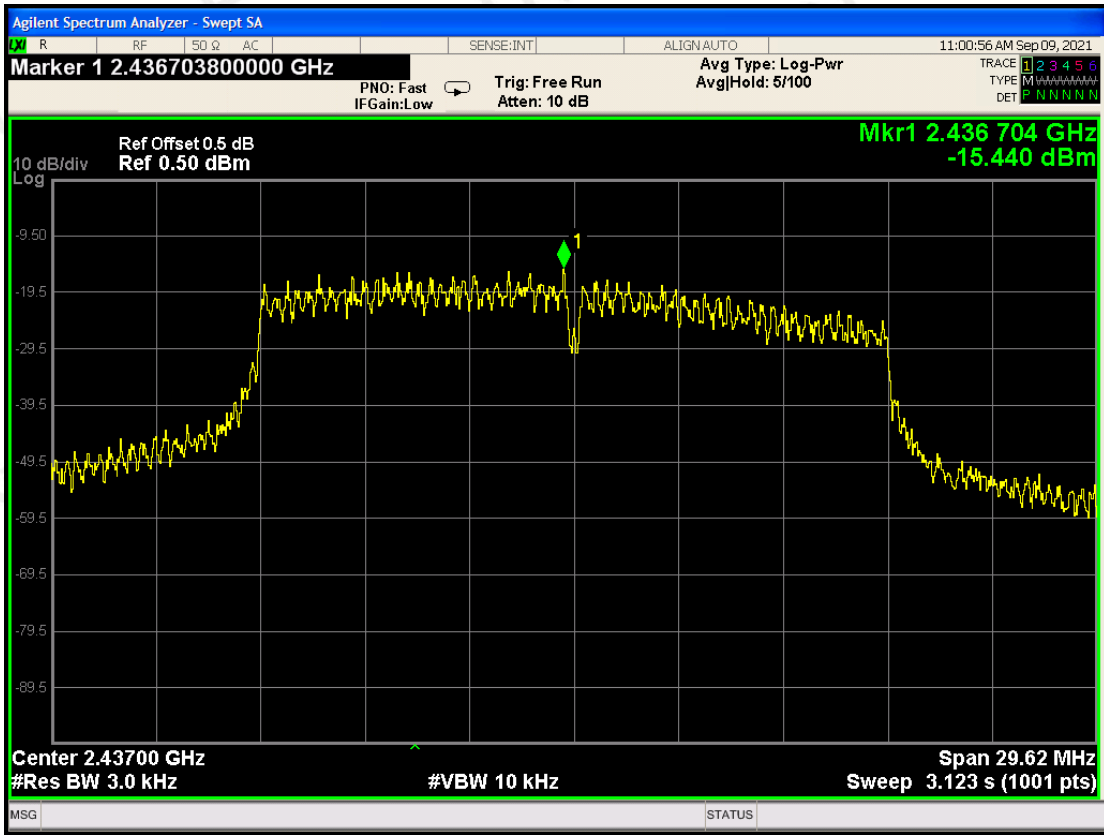


TX 802.11n/HT20 Mode			
Frequency (MHz)	Power Density (dBm/3KHz)	Limit (dBm/3KHz)	Result
2412	-18.937	8	PASS
2437	-15.440	8	PASS
2462	-16.752	8	PASS

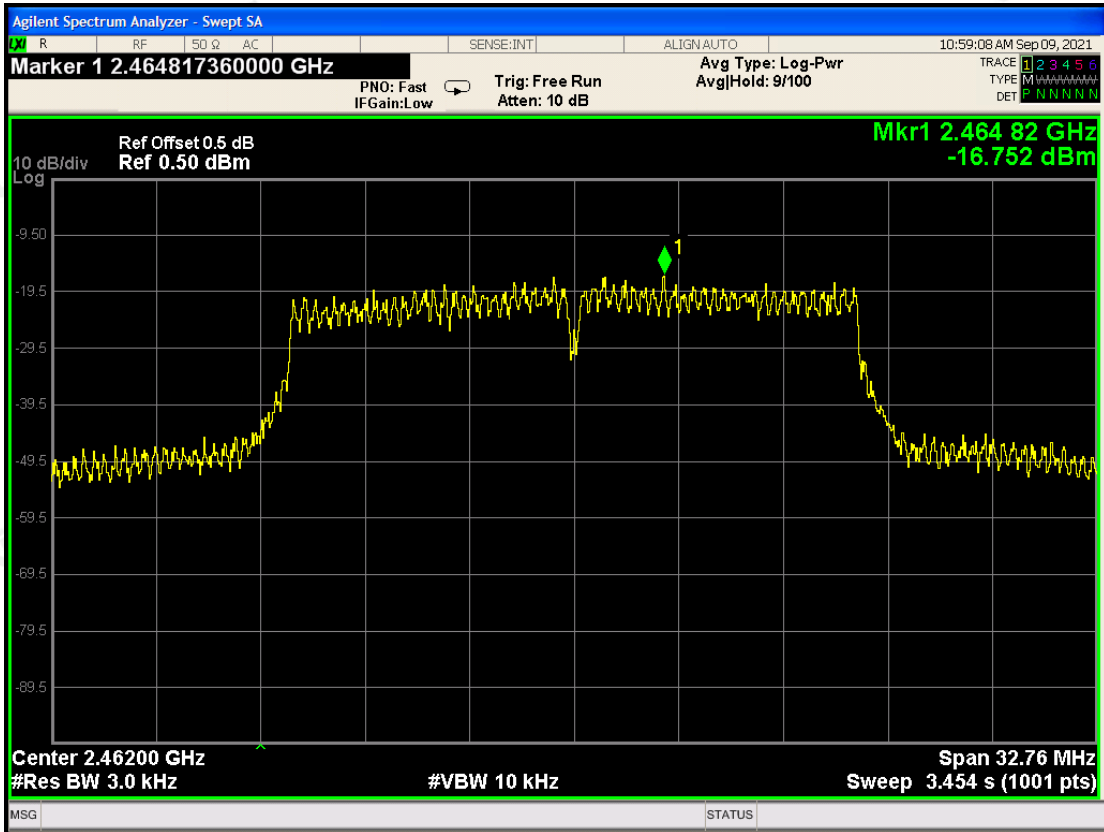
CH1: 2412MHz



CH6: 2437MHz



CH11: 2462MHz



8. PEAK OUTPUT POWER TEST

8.1 TEST 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

For average power test:

1. Connect EUT RF output port to power sensor through an RF attenuator.
2. Connect the power sensor to the PC.
3. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
4. Record the maximum power from the software.

Note : The EUT was tested according to ANSI C63.10 (2013) for compliance to FCC 47CFR 15.247 requirements.

8.3 TEST RESULT

PASS

All the test modes completed for test.

TX 802.11b Mode			
Test Channel	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)	LIMIT (dBm)
CH01	2412	14.66	30
CH06	2437	14.24	30
CH11	2462	14.67	30
TX 802.11g Mode			
CH01	2412	16.53	30
CH06	2437	16.36	30
CH11	2462	16.60	30
TX 802.11n20 Mode			
CH01	2412	17.20	30
CH06	2437	16.37	30
CH11	2462	17.24	30

9.OUT OF BAND EMISSIONS TEST

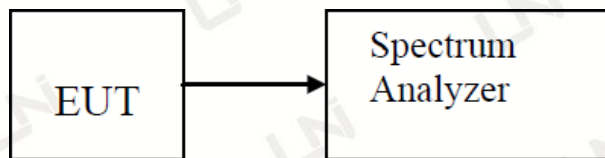
9.1 TEST LIMIT

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

9.2 TEST PROCEDURE

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Set EUT as TX operation and connect directly to the spectrum analyzer.
3. Based on FCC Part15 C Section 15.247: RBW=100KHz, VBW=300KHz.
4. Set detected by the spectrum analyzer with peak detector.

9.3 TEST SETUP

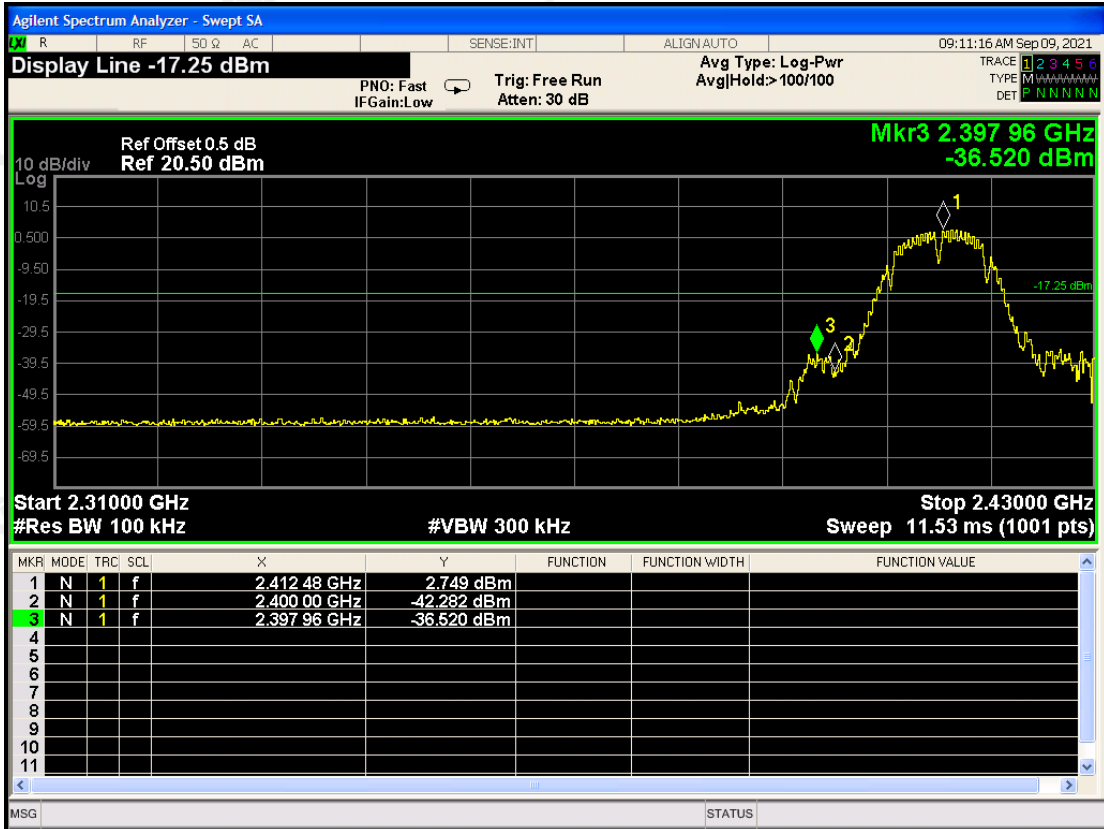
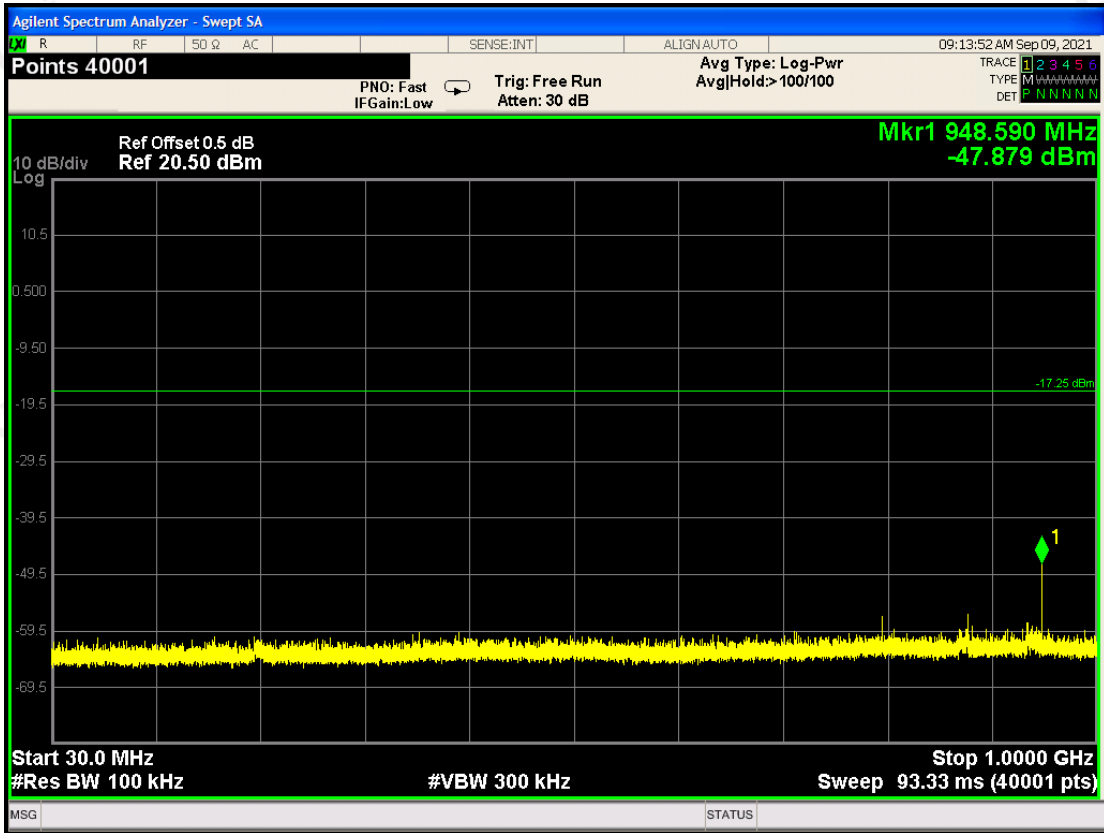


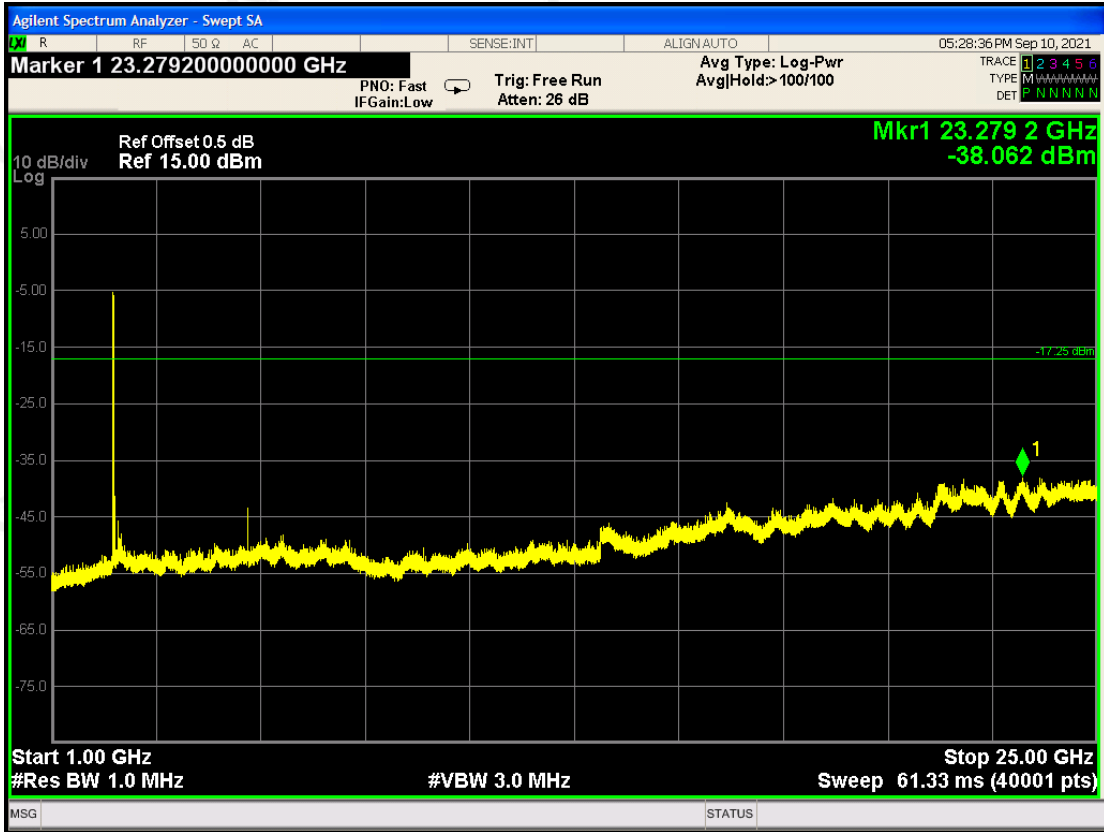
9.4 TEST RESULT

PASS

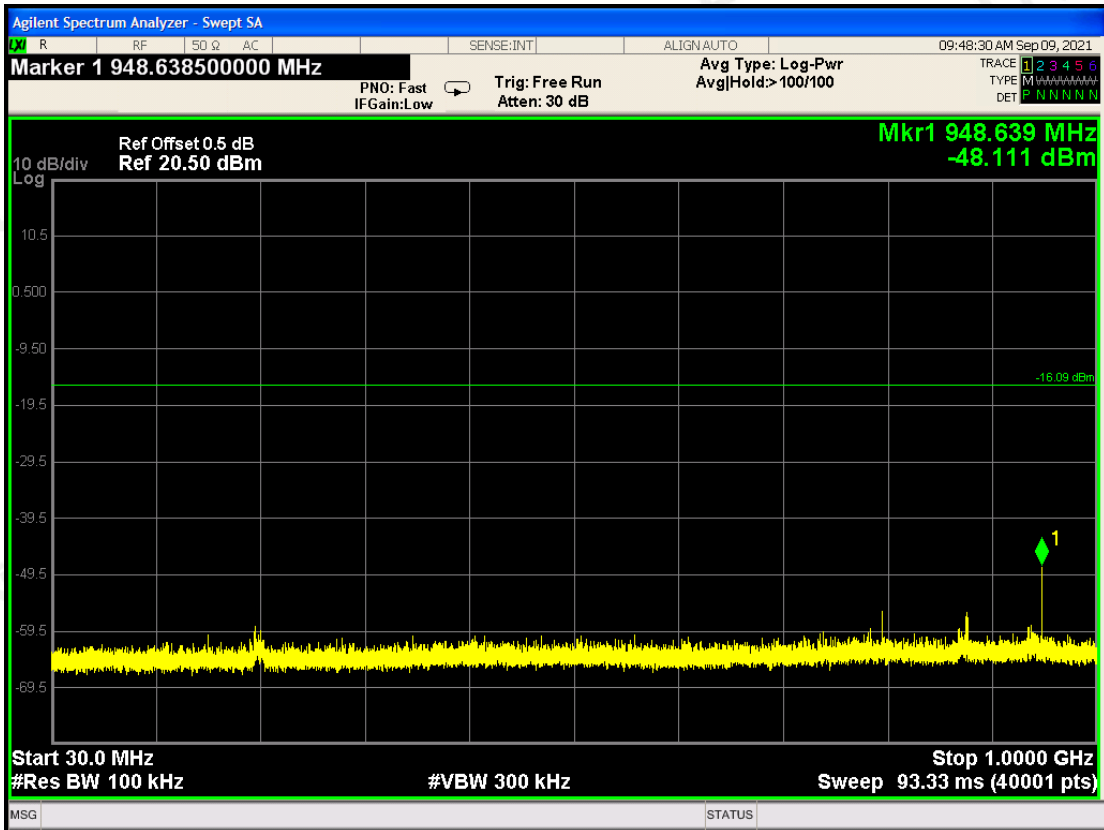
TX 802.11b Mode

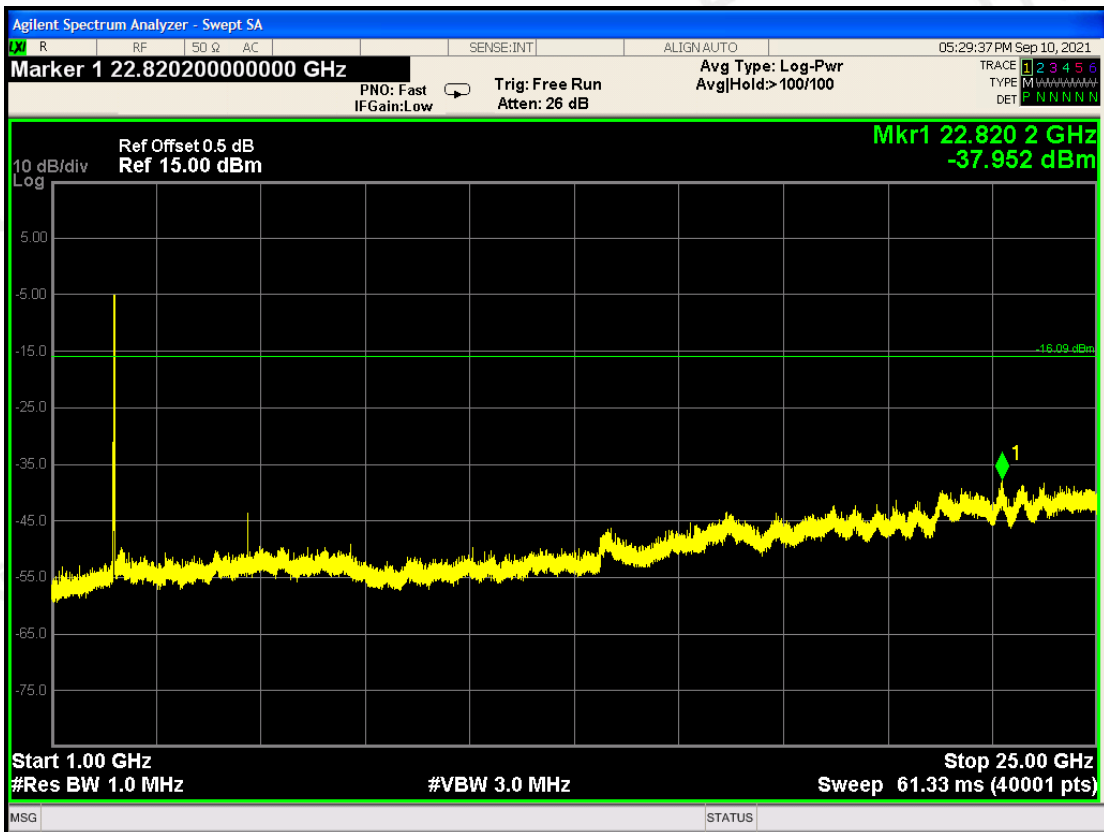
CH1: 2412MHz



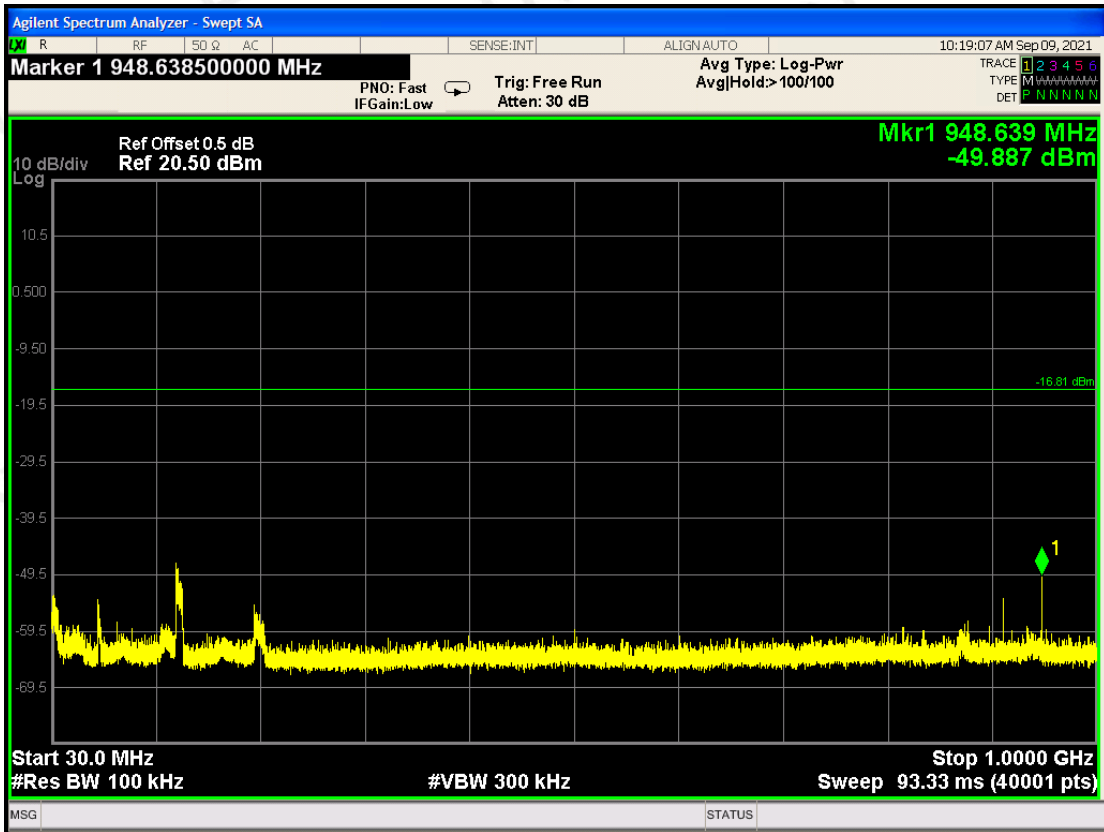


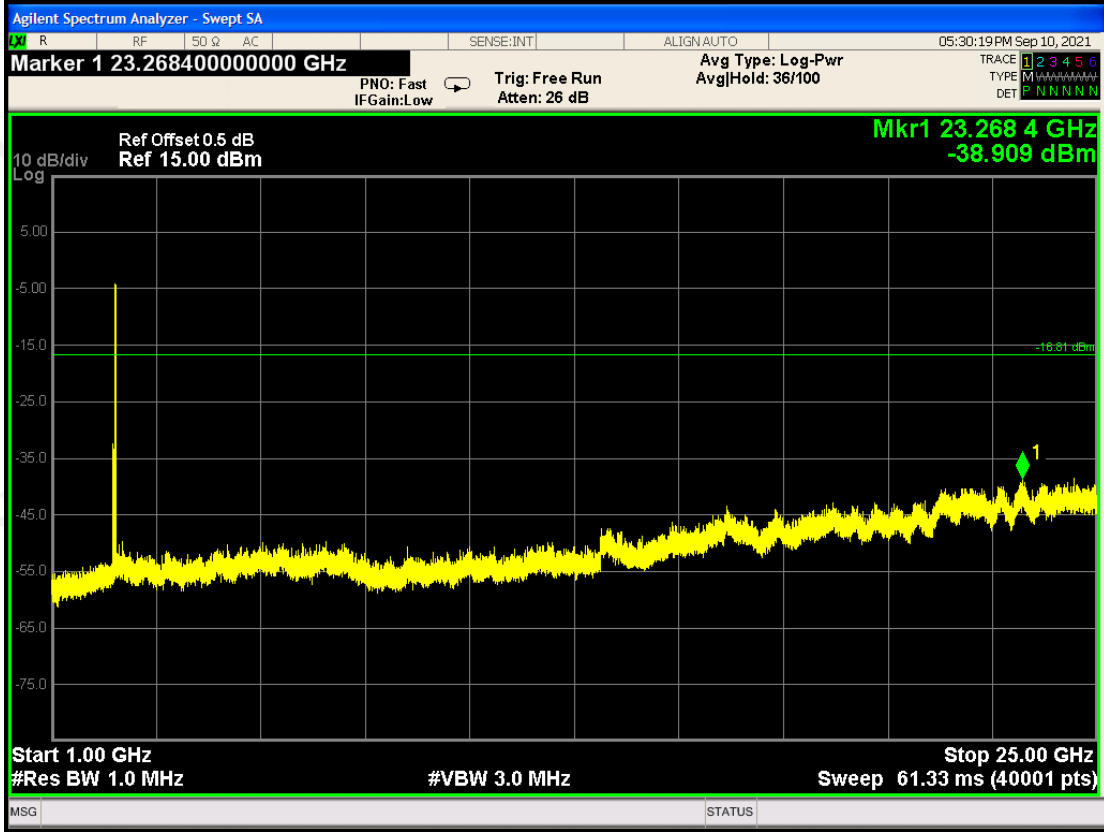
CH6: 2437MHz





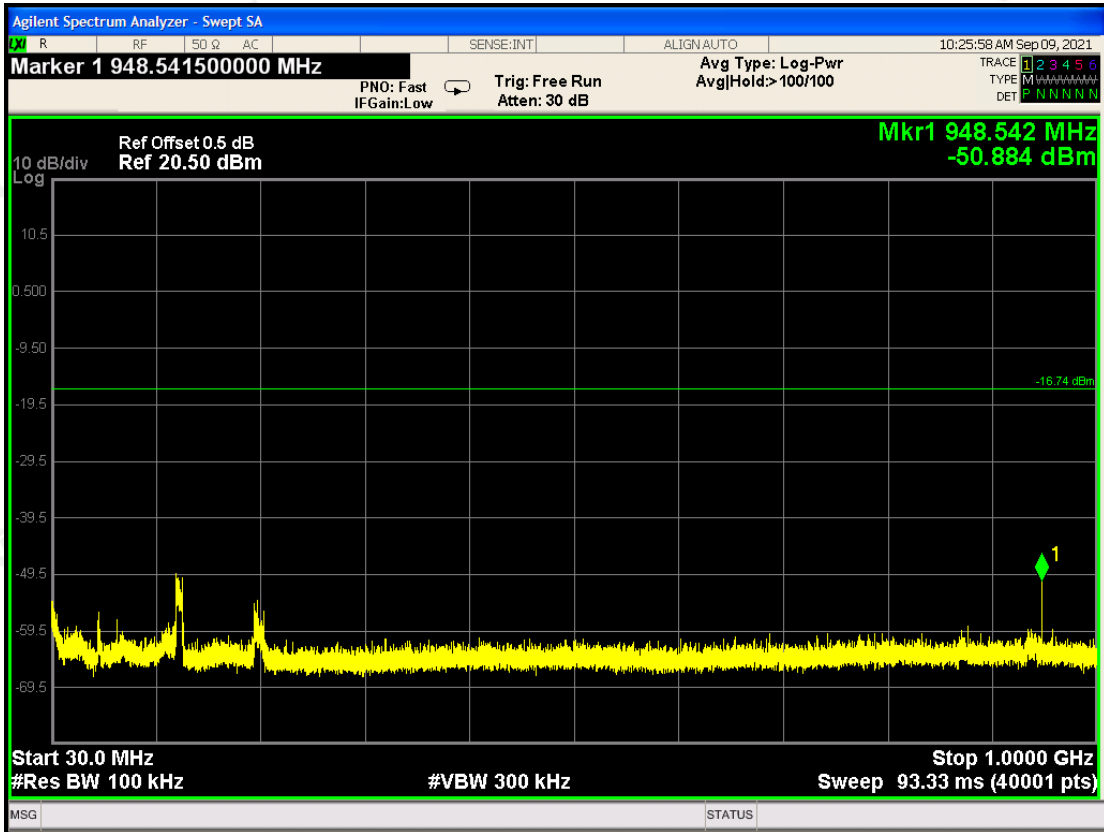
CH11: 2462MHz

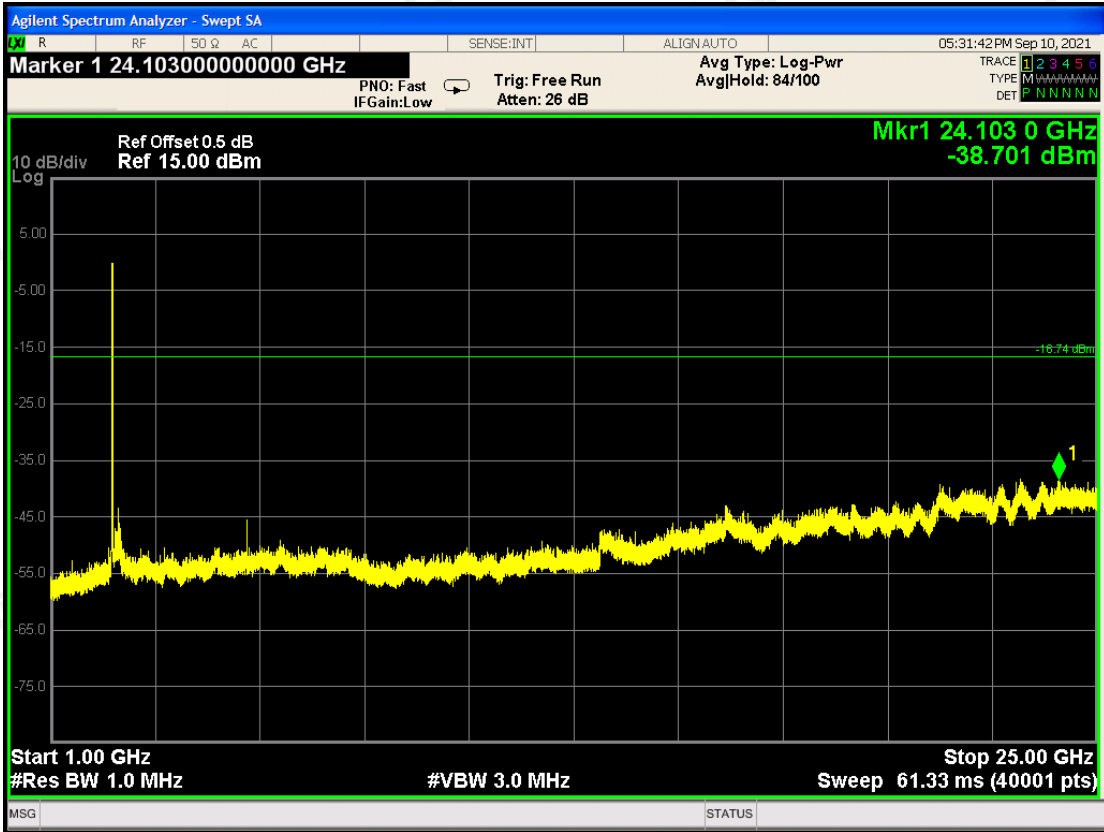
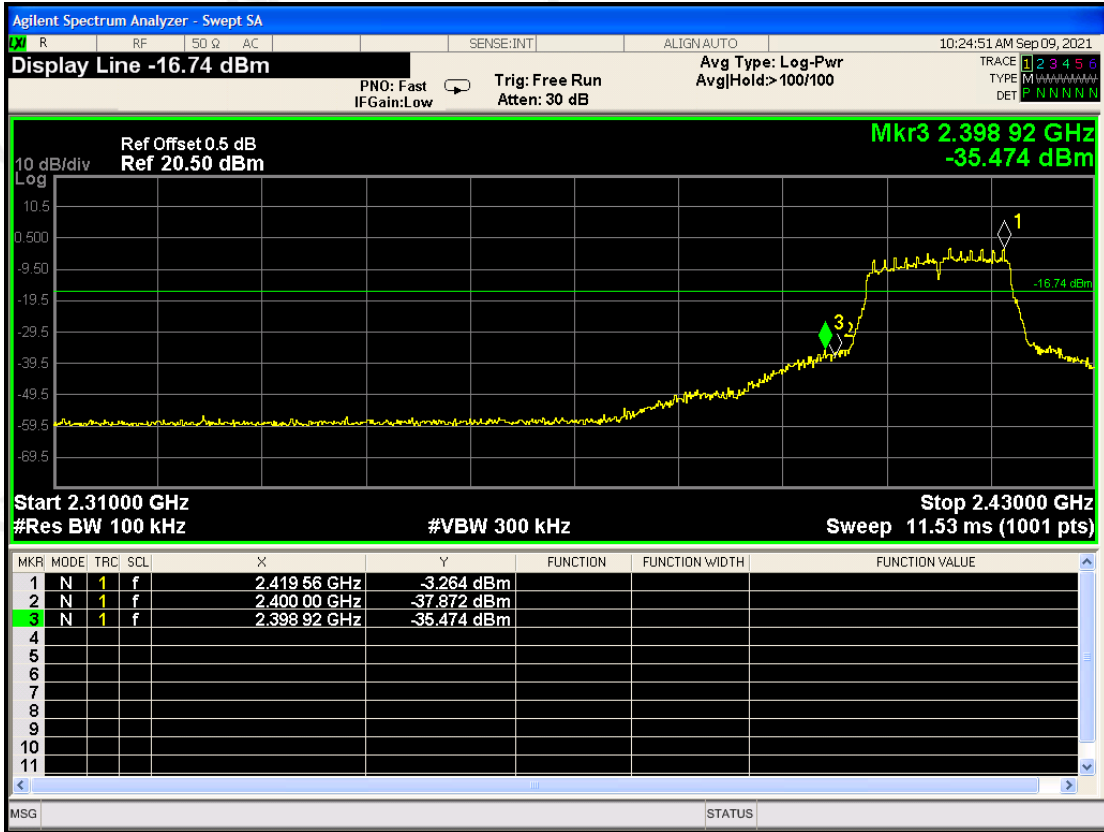




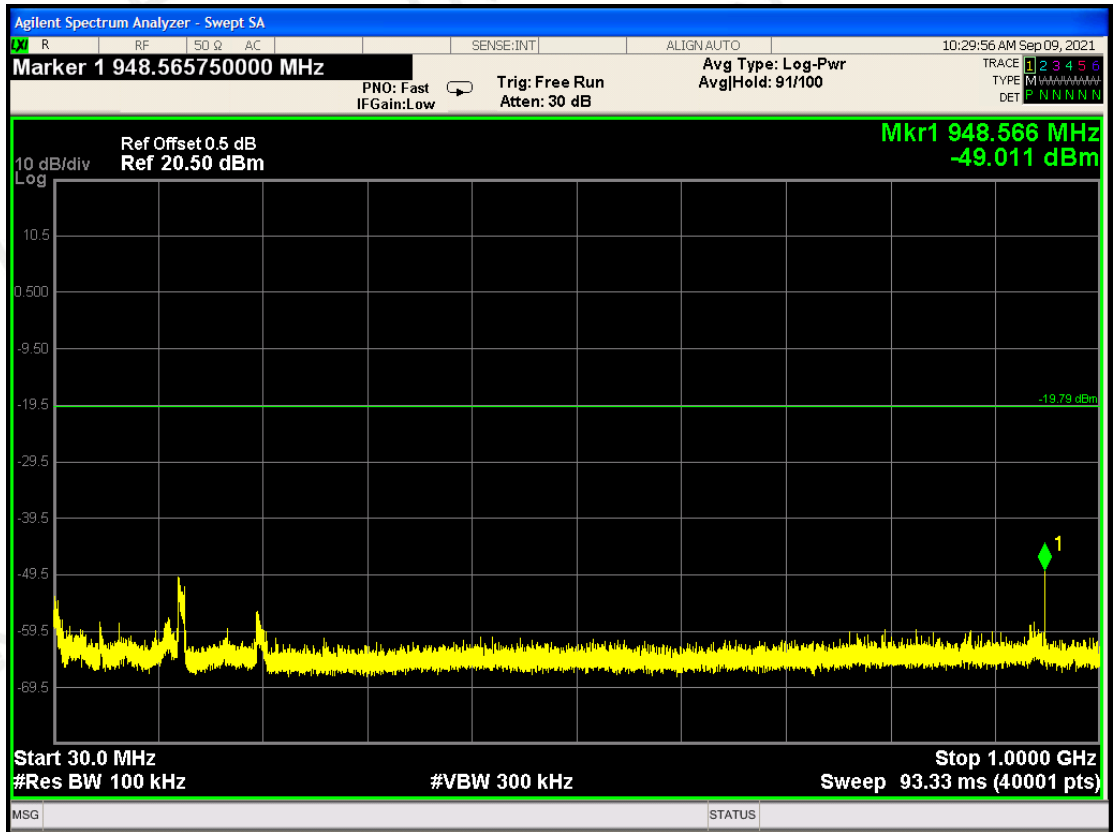
TX 802.11g Mode

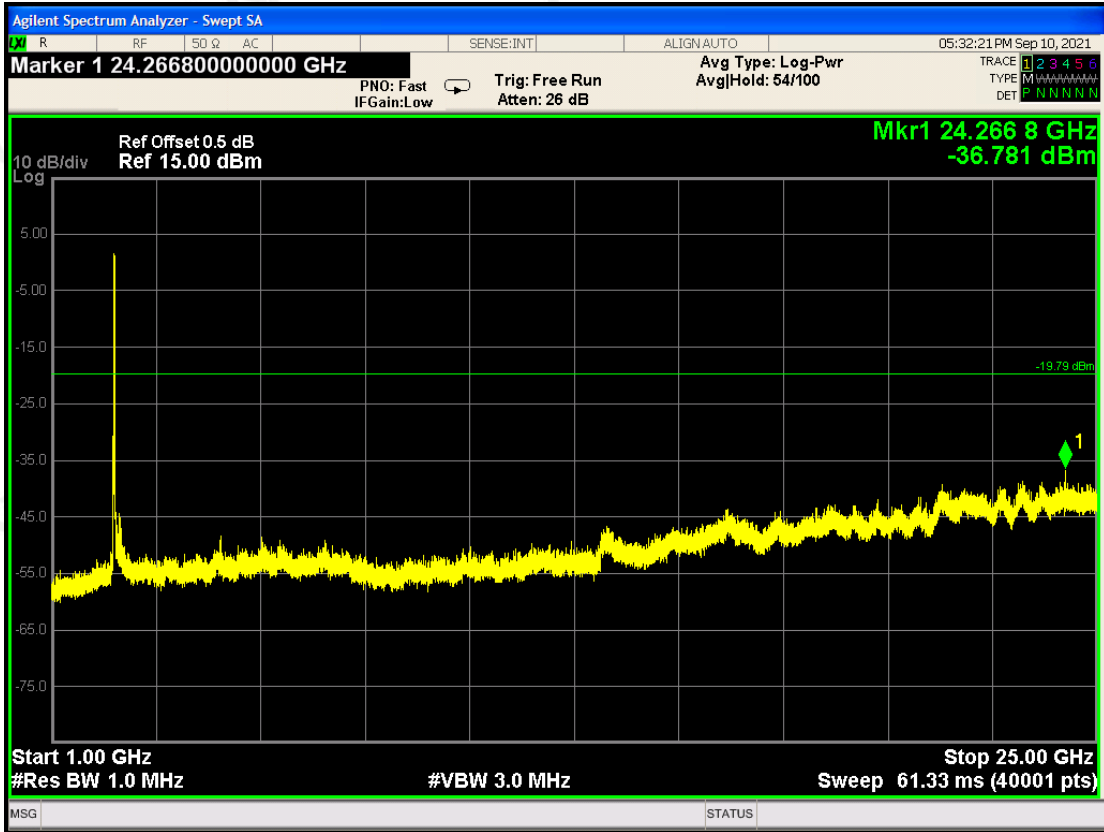
CH1: 2412MHz



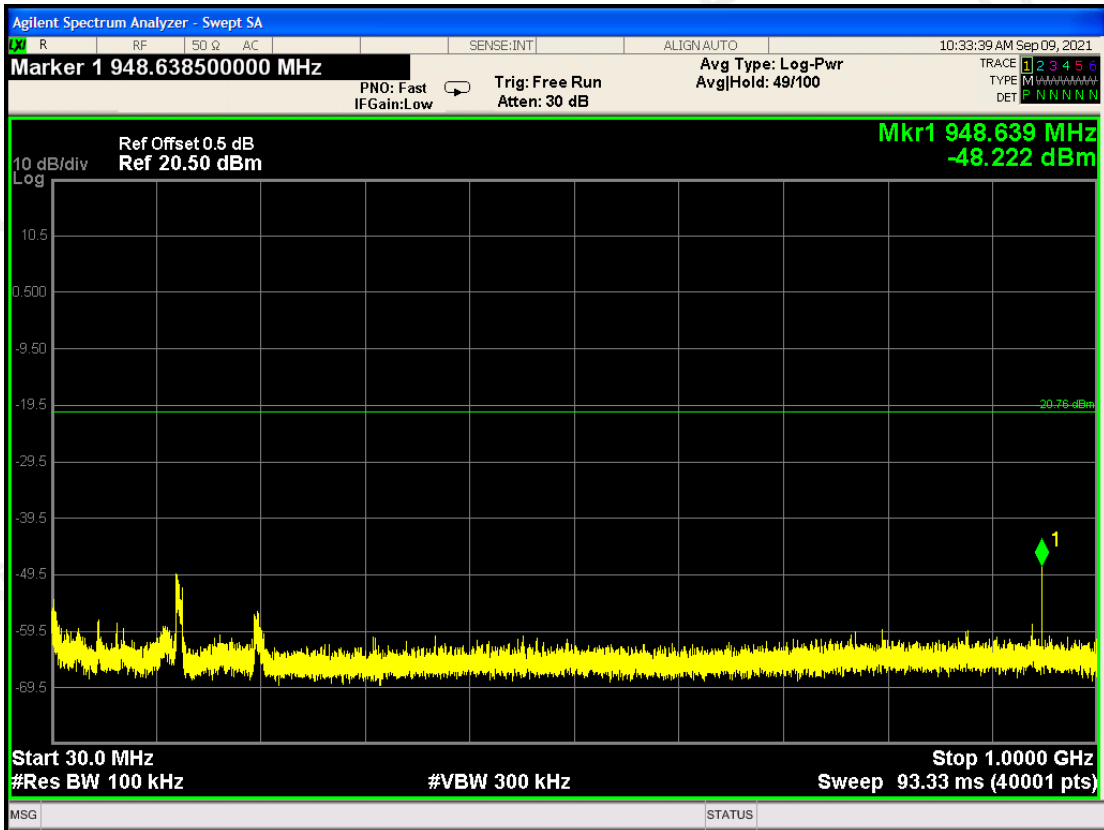


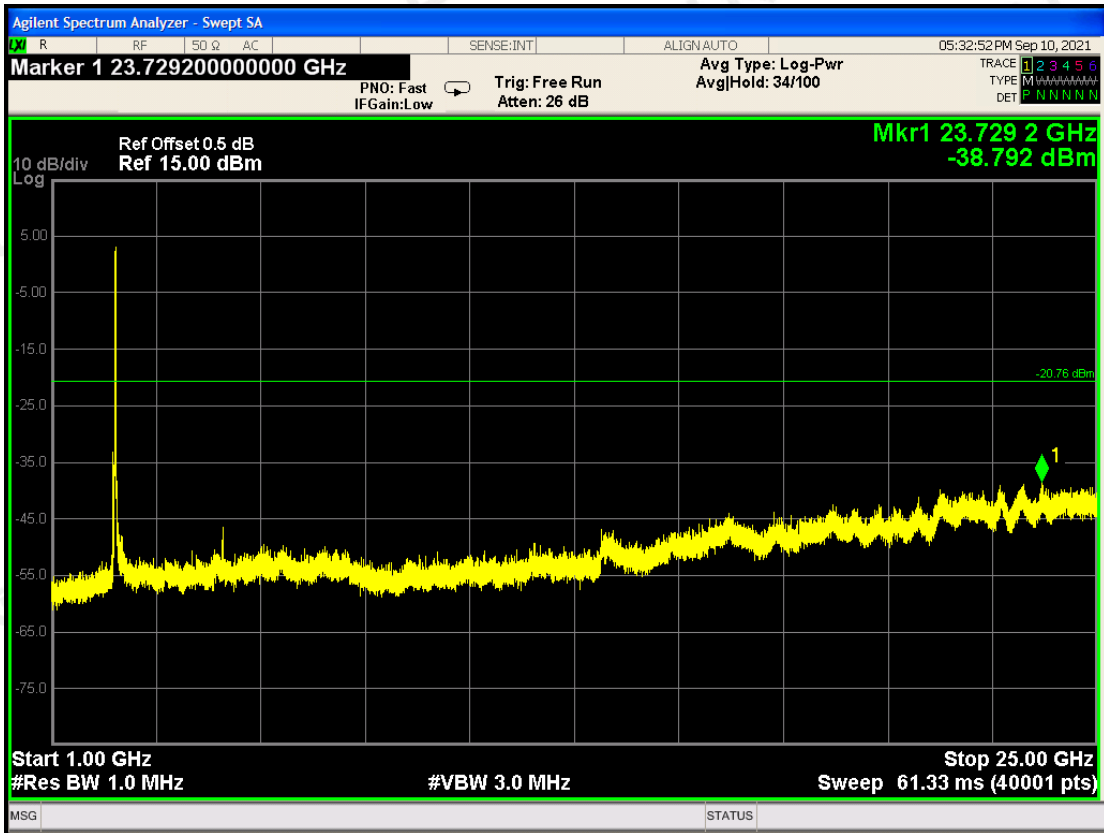
CH6:2437MHz





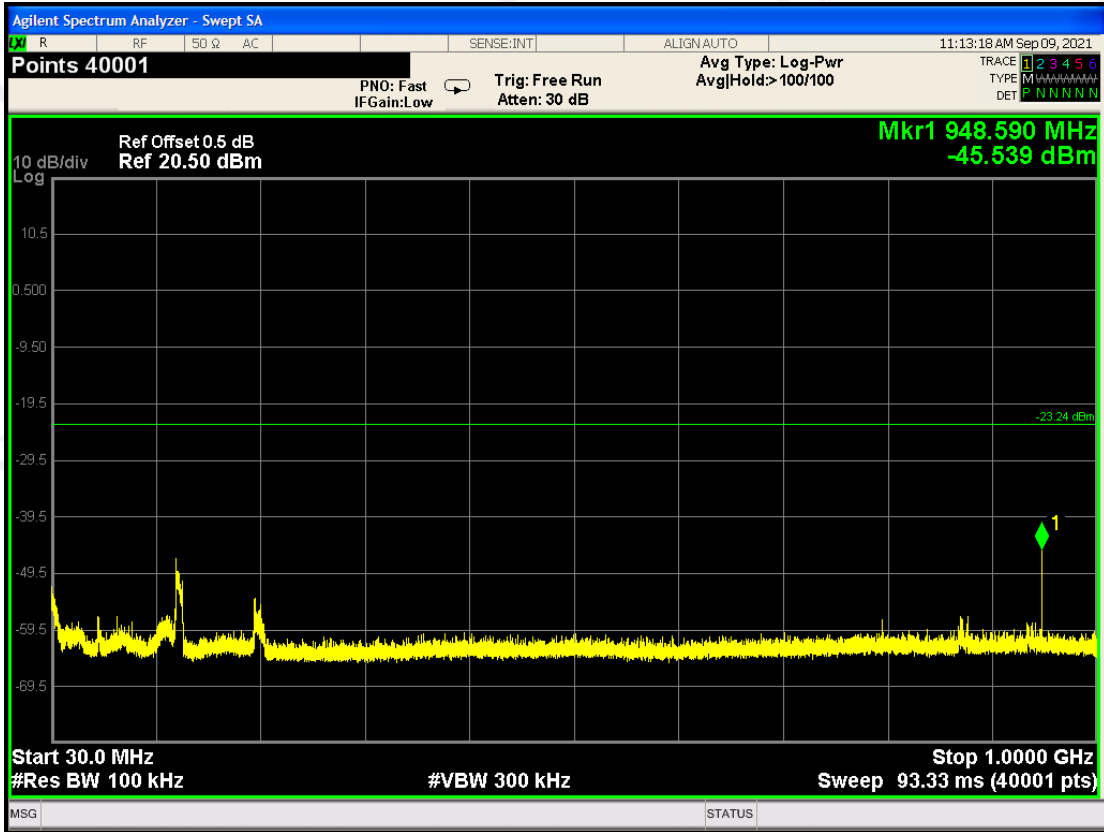
CH11: 2462MHz

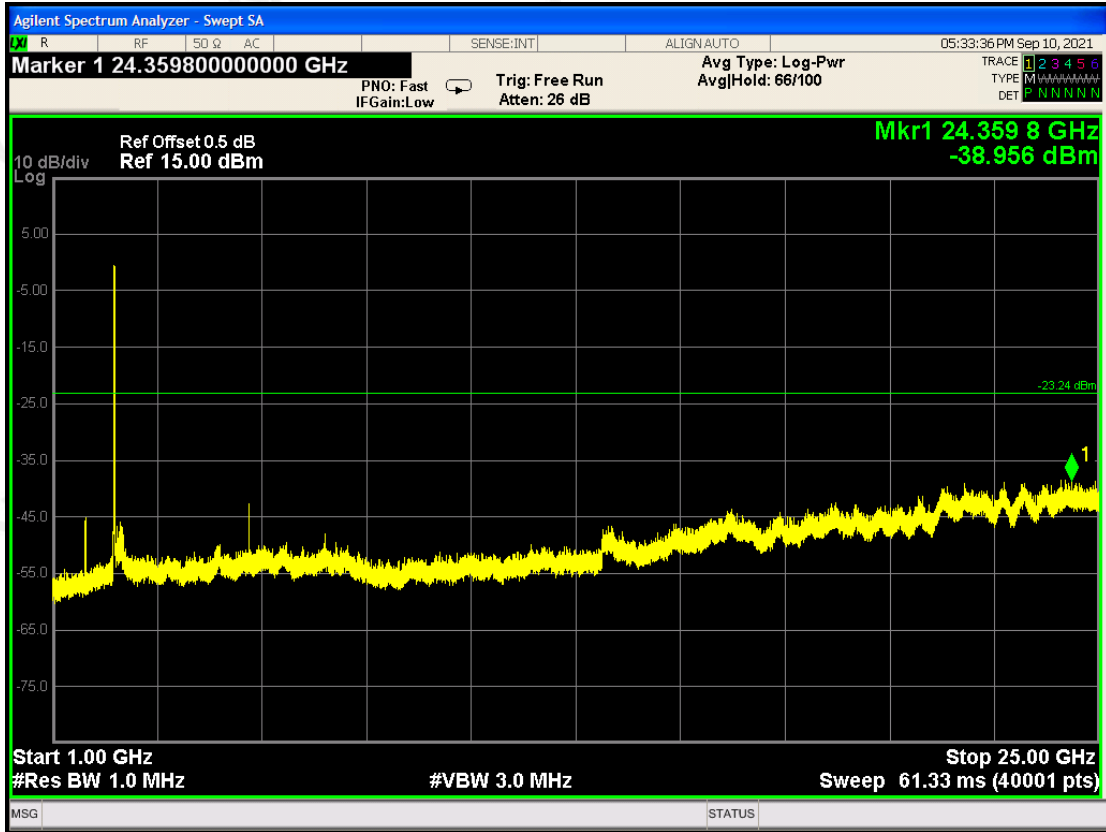




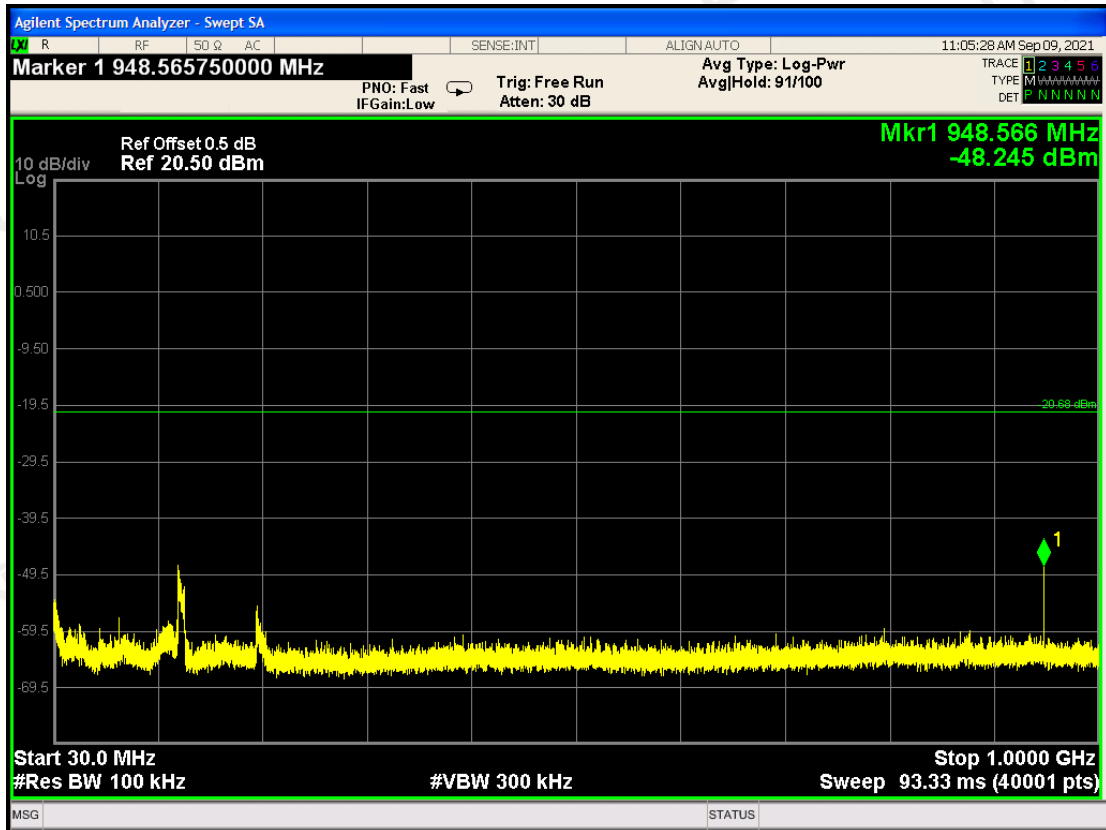
TX 802.11n/HT20 Mode

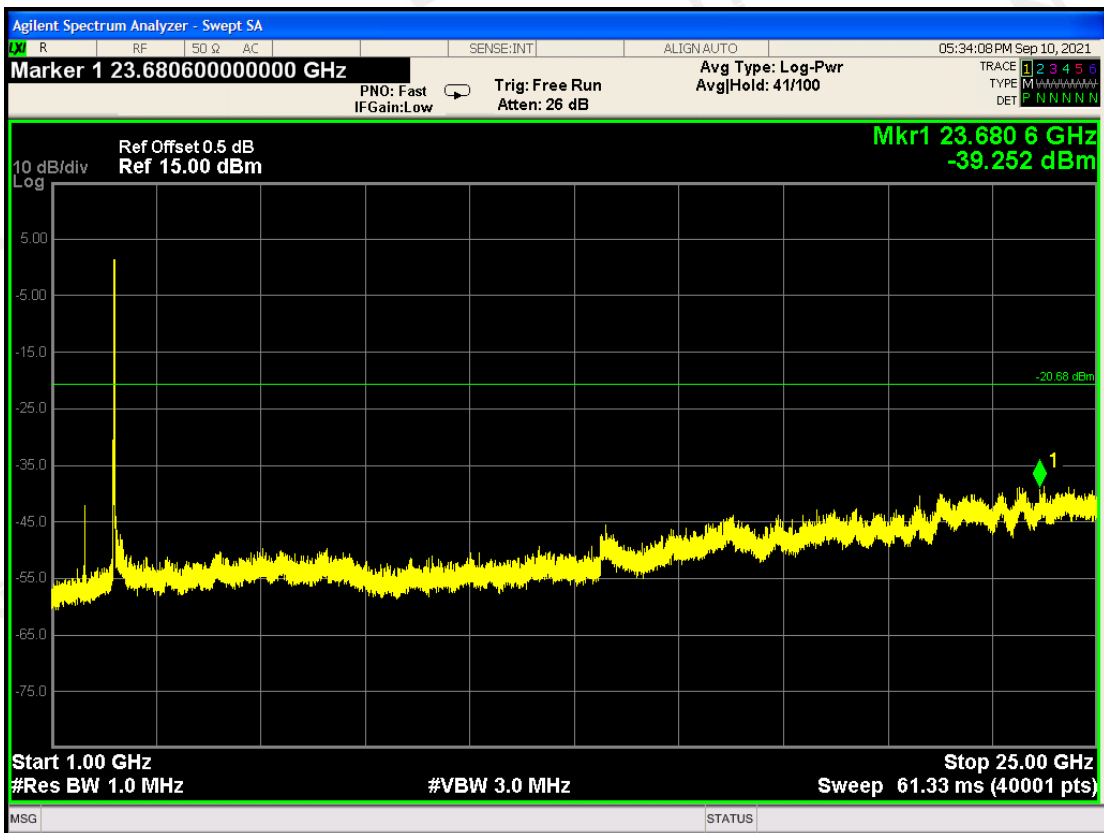
CH1: 2412MHz



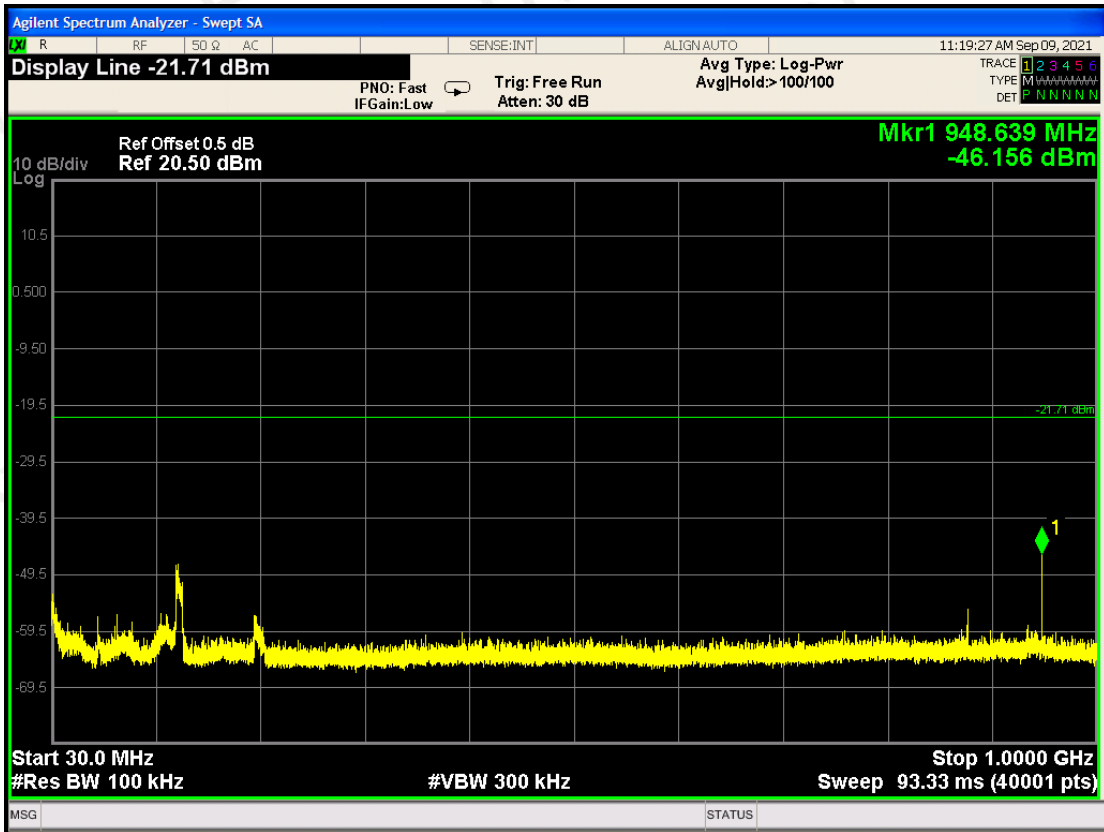


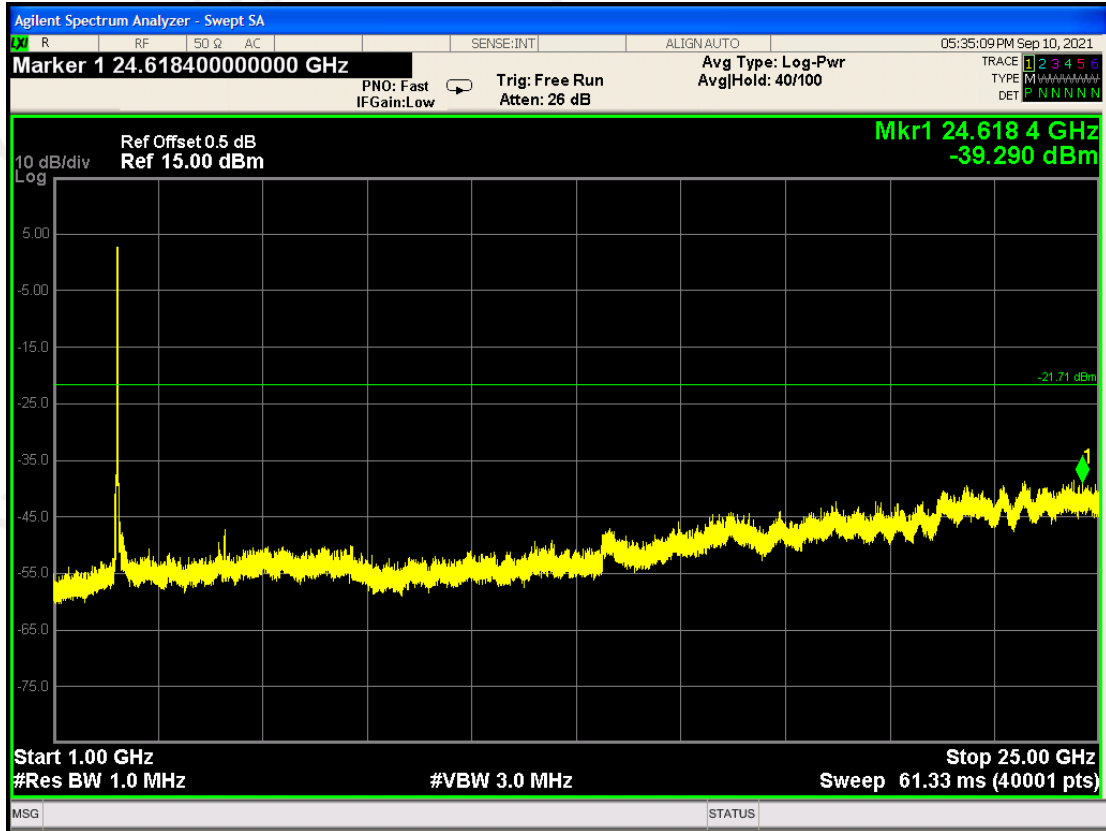
CH6: 2437MHz





CH11: 2462MHz





10.ANTENNA REQUIREMENT

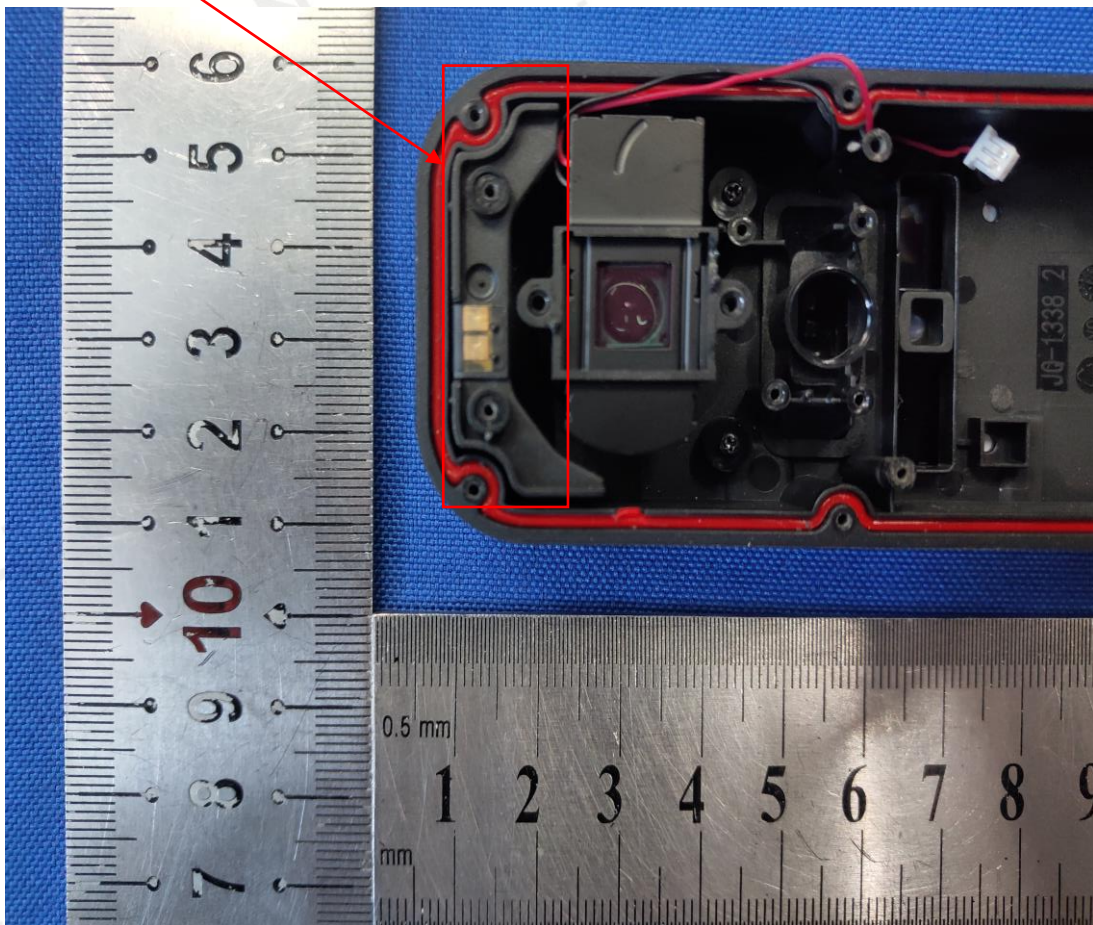
Standard Applicable:

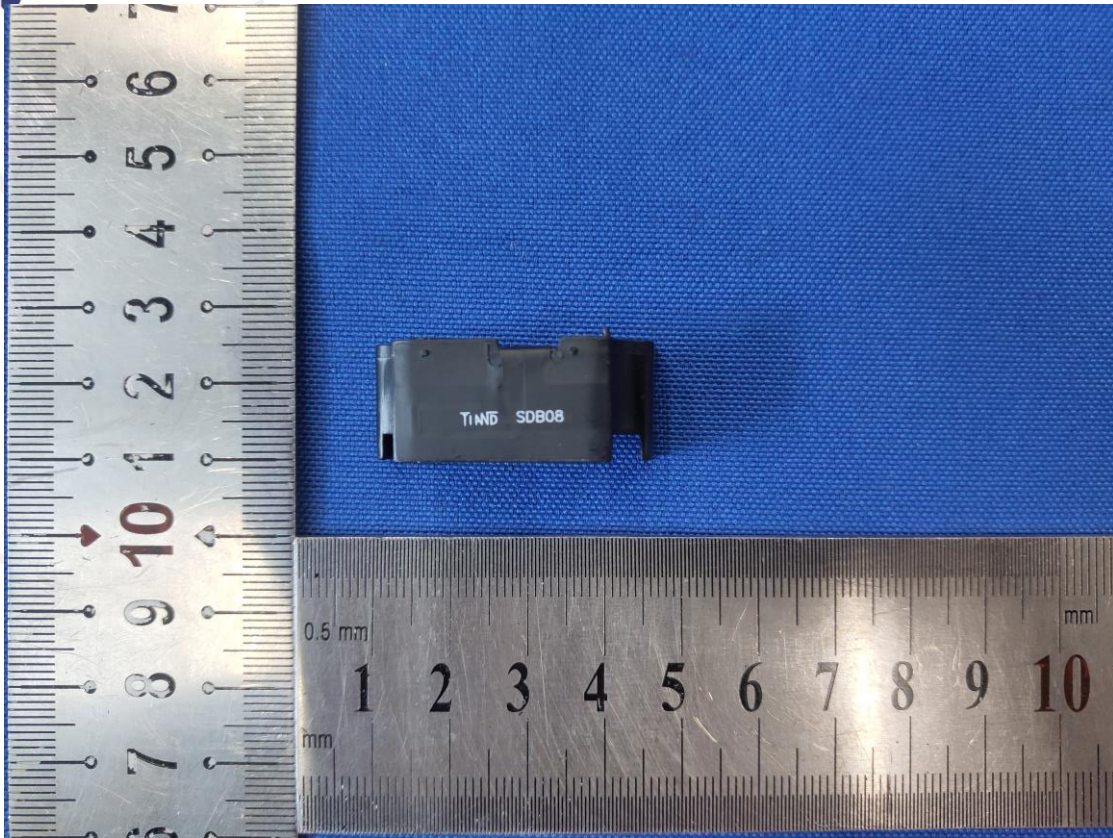
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

Antenna Connected Construction

The EUT used is a integrated antenna, using a 50Ω connector (Provided by non-manufacturers will use the product can not work), considered a special connector accepted by the FCC to comply with rule part 15.203. Please see EUT photos for details, it comply with the standard requirement. The gains of antenna used for transmitting is 2dBi.

ANTENNA:





11.PHOTOGRAPH OF TEST

11.1 RADIATED EMISSION

Below 1GHz



Above 1GHz



11.2 CONDUCTED EMISSION



End of Report

Statement

- 1.This report must have the signature of the authorized signatory and the special seal of the report, otherwise it will be considered invalid. If there is no anti-counterfeiting electronic seal of the laboratory in the report in PDF format or it is displayed as "x", the report is invalid.
- 2.This report shall not be modified, added or deleted without authorization.
- 3.The results of this report are only valid for the EUT provided by Applicant to our laboratory for inspection (That is,EUT received by our laboratory.Without special explanation, it refers to the samples presented in the report "Sample Photo(s)").
- 4.If there is any objection to the test data and conclusions of this report, please submit it in writing within 10 working days after the date of issuance of the report.
- 5.Without the written consent of the laboratory, this report shall not be copied (except for full copy), nor shall it be used as publicity materials or advertising.
- 6.The cover of the report is for decoration only, not included in the body of the report.
- 7.The paper report issued by our laboratory has the same effect as the electronic report. In case of any difference between the two, the electronic report shall prevail.
- 8.The Chinese and English reports issued by our laboratory have the same effect. In case of any difference in understanding, the Chinese version shall prevail.
- 9.Please provide the complete report documents issued by our laboratory when inquiring the report.
- 10.For cases where compliance is determined based on test values, when relevant specifications, standards, documents, and customers have no relevant requirements and no other special instructions, the test report issued by this laboratory is carried out in full value and adopts ILAC-G8:09 /2019 "Simple Acceptance Rule" for judgment.
- 11.In the People's Republic of China, when there is no CMA Accredited Symbol in this report, the report is only for scientific research, teaching or internal quality control activities.