

TEST REPORT

Applicant : Shenzhen Yuan Guang Hui Electronic Equipment Co., Ltd.

Address : No. 801, Building A, Jinke Industrial Park, 310 Wuhe Avenue, Luhuhu Community, Guanhu Street, Longhua District, Shenzhen City

Manufacturer : Shenzhen Yuan Guang Hui Electronic Equipment Co., Ltd.

Address : No. 801, Building A, Jinke Industrial Park, 310 Wuhe Avenue, Luhuhu Community, Guanhu Street, Longhua District, Shenzhen City

Product Name : Wi-Fi PTZ Network Camera

Model Number : YG-WF980KBW-500HX/36X, YG-WF15HX-5MP, YG-WF15C-4MP, YG-WF93AR-3MP-20X/25X, YG-WF880K-3MP-20X/25X, YG-WF580K-3MP-20X/25X, YG-WF980K-3MP-20X/25X

Trademark : N/A

FCC ID : 2BYJK-YG-WF980

Test Date : Aug. 10, 2026 to Aug. 26, 2026

Date of Report : Aug. 26, 2026

Test Result : This device described above has been tested by NTT, and the test results show that the equipment under test (EUT) is in compliance with the Standard requirements. And it is applicable only to the tested sample identified in the report.

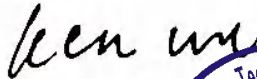
Test Procedure Used:

Standards : FCC CFR Title 47 Part 15 Subpart C Section 15.247
ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

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TABLE OF CONTENT

1. General Information	5
1.1. Description of Device (EUT)	5
1.2. Channel List	5
1.3. Test configuration	5
1.4. Summary of test result	6
1.5. Special Accessories and Auxiliary Equipment	6
1.6. Test mode	6
1.7. Block Diagram	7
1.8. Test Conditions	7
1.9. Measurement Uncertainty (95% confidence levels, k=2)	7
1.10. Test Facility	8
1.11. Test Equipment	8
2. Conducted emission at the mains terminals test	10
2.1. Limit	10
2.2. Test Setup	10
2.3. Test Procedure	10
2.4. Test Result	11
3. Radiated Spurious Emissions	13
3.1. Limit	13
3.2. Test Setup	14
3.3. Test Procedure	16
3.4. Test Result	17
4. Duty cycle	24
4.1. Limit	24
4.2. Test Setup	24
4.3. Test Procedure	24
4.4. Test Result	24
5. Conducted Spurious Emissions	25
5.1. Limit	25
5.2. Test Setup	25
5.3. Test Procedure	25
5.4. Test Result	26
6. Band Edge Measurement	29
6.1. Limit	29
6.2. Test setup	29
6.3. Test Procedure	29
6.4. Test Result	30
7. -6 dB Bandwidth and 99% Bandwidth Measurement	33
7.1. Limit	33
7.2. Test Setup	33
7.3. Test Procedure	33
7.4. Test Result	34
8. Maximum Output Power	41
8.1. Limit	41
8.2. Test Setup	41
8.3. Test Procedure	41
8.4. Test Result	42
9. Power Spectral density	43
9.1. Limit	43
9.2. Test Setup	43
9.3. Test Procedure	43

9.4. Test Result.....	44
10. Antenna Requirement	48
11. TEST SETUP & EUT PHOTOGRAPH	49

[illegible]

1. General Information

1.1. Description of Device (EUT)

EUT Name	:	Wi-Fi PTZ Network Camera
Model No.	:	YG-WF980KBW-500HX/36X, YG-WF15HX-5MP, YG-WF15C-4MP, YG-WF93AR-3MP-20X/25X, YG-WF880K-3MP-20X/25X, YG-WF580K-3MP-20X/25X, YG-WF980K-3MP-20X/25X
Model Difference	:	All the model are the same circuit and RF module, only the model names are different. Test sample model: YG-WF980KBW-500HX/36X
Power supply	:	DC12V
Operation frequency	:	2412-2462MHz for 802.11b/g/n20
Modulation	:	802.11b:(DQPSK, DBPSK, CCK) DSSS 802.11g/n:(64-QAM, 16-QAM, QPSK, BPSK) OFDM
Antenna Type	:	External antenna, Maximum Gain is 3.56dBi
Intend use environment	:	Residential, commercial and light industrial environment

1.2. Channel List

Frequency and Channel list for 802.11 b/g/n(HT20):

Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
1	2412	2	2417	3	2422	4	2427
5	2432	6	2437	7	2442	8	2447
9	2452	10	2457	11	2462		

Test Frequency and Channel for 802.11 b/g/n(HT20):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
1	2412	6	2437	11	2462
3	2422	6	2437	9	2452

1.3. Test configuration

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.	
Test Software	Wifi_Test_Tool_V1.7.9
Power level setup	13 dBm

1.4.Summary of test result

RF PART		
Test Items	Test Requirement	Result
Antenna requirement	FCC part 15.203/15.247 (b)	PASS
Duty cycle	/	PASS
AC Power Line Conducted Emission	FCC part 15.207	PASS
Conducted Peak Output Power	FCC part 15.247 (b)(3)	PASS
Channel Bandwidth& 99% OCB	FCC part 15.247 (a)(2)	PASS
Power Spectral Density	FCC part 15.247 (e)	PASS
Band Edge	FCC part 15.247(d)	PASS
Spurious Emission	FCC part 15.205/15.209	PASS
Remark: N/A is an abbreviation for Not Applicable. Measurement Uncertainty is not taken into account for conformity statement		

1.5.Special Accessories and Auxiliary Equipment

Description	Manufacturer	Model No.	Hardware Version	Software Version
Adapter	JIYIN	JY-05100C	/	/
Laptop	DELL	Vostro 5490	/	/
Cable	/	/	/	/

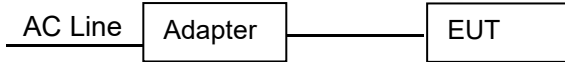
1.6.Test mode

The special RF test software was used to control EUT work in Continuous WIFI TX mode, and select test channel, wireless mode.

Test mode	Low channel	Middle channel	High channel
802.11b	2412MHz	2437MHz	2462MHz
802.11g	2412MHz	2437MHz	2462MHz
802.11n20	2412MHz	2437MHz	2462MHz
Note: All modes have been tested., Only the worst Data Record in the report			

1.7.Block Diagram

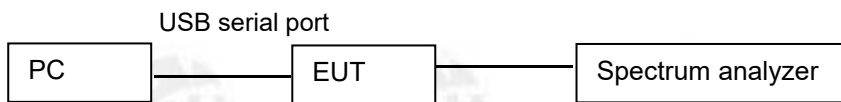
Radiated Emission



Conducted Spurious



RF Conducted Test



1.8.Test Conditions

Category	Normal Conditions	Extreme Conditions
Temperature range	15-35℃	N/A
Humidity range	20-75%	N/A
Pressure range	86-106kPa	N/A
Power supply	DC 12V	N/A

Note: N/A is an abbreviation for Not Applicable.

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

Item	MU	Remark
Uncertainty for radio frequency	$\pm 7 \times 10^{-8}$	
Conducted Emissions (150kHz~30MHz)	$\pm 3.64\text{dB}$	
Radiated Emission(9KHz~30MHz)	$\pm 4.51\text{dB}$	
Radiated Emission(30MHz~1GHz)	$\pm 5.03\text{dB}$	
Radiated Emission(1GHz~6GHz)	$\pm 3.92\text{dB}$	
Radiated Emission(6GHz~18GHz)	$\pm 4.33\text{dB}$	
Radiated Emission(18GHz~40GHz)	$\pm 3.38\text{dB}$	
Uncertainty for conducted RF Power	$\pm 0.20\text{dB}$	
Conducted spurious emissions	$\pm 0.24\text{dB}$	
Uncertainty for temperature	0.6℃	
Uncertainty for humidity	1%	
Bandwidth	$\pm 1.5 \times 10^{-6}$	
Time	$\pm 2\%$	
Duty Cycle	$\pm 2\%$	

Remark: The coverage Factor (k=2), and measurement Uncertainty for a level of Confidence of 95%

1.10.Test Facility

Site Description	
Name of Firm	: Shenzhen NTT Testing Technology Co.,Ltd.
Site Location	: 1B, Building 2, Factory Building & 103, Building 3, Factory Building, Dayang Industrial Park No.4, Industrial Avenue, Tangwei Community, Fuhai Sub-district, Bao 'an District, Shenzhen City, China
FCC Designation Number	: CN3446
FCC Test Firm Registration Number	: 129414

1.11.Test Equipment

Conducted Test Site

Name	Model No.	Serial No.	Manufacturer	Date of Cal.	Due Date
944 Shielded Room	HSRCE944	/	HTEC	2025/4/30	2028/4/29
EMI Test Receiver	ESCI	100881/003	ROHDE&SCHWARZ	2025/09/08 2026/09/04	2026/09/07 2027/09/03
LISN	AMN6500	101185	ROHDE&SCHWARZ	2025/09/08 2026/09/04	2026/09/07 2027/09/03
LISN	NNLK 8129	00603	SCHWARZBECK	2025/09/08 2026/09/04	2026/09/07 2027/09/03
Pulse Limiters	VTSD 9561 F	00343	SCHWARZBECK	2025/09/08 2026/09/04	2026/09/07 2027/09/03
Cable	RG223-2M	/	RG	2025/09/08 2026/09/04	2026/09/07 2027/09/03

Radiated Test Site(Below 1G and Above 1G)&RF Test Site

Name	Model No.	Serial No.	Manufacturer	Date of Cal.	Due Date
966 Shielded Room	966 Room	/	EMToni	2025/7/24	2028/7/23
EMI Test Receiver	ESPI	101018	ROHDE&SCHWARZ	2025/09/08 2026/09/04	2026/09/07 2027/09/03
Amplifier (30MHz-1GHz)	BBV 9745	00431	SCHWARZBECK	2025/09/08 2026/09/09	2026/09/07 2027/09/08
Bilog Antenna (30MHz-1GHz)	VULB9168	1858	SCHWARZBECK	2025/09/09 2026/09/05	2026/09/08 2027/09/04
Horn antenna (1GHz-18GHz)	BBHA 9120 D	02622	SCHWARZBECK	2025/09/09 2026/09/05	2026/09/08 2027/09/04
Preamplifier (1GHz-18GHz)	BBV 9718D	0024	SCHWARZBECK	2025/09/08 2026/09/04	2026/09/07 2027/09/03

Spectrum Analyze (10Hz-40GHz)	FSV 40	100952	ROHDE&SCHWA RZ	2025/09/08 2026/09/04	2026/09/07 2027/09/03
Pream plifier (18GHz-40GHz)	BBV 9721	0056	SCHWARZBECK	2025/09/08 2026/09/04	2026/09/07 2027/09/03
Double Ridge Guide Horn Antenna (18GHz-40GHz)	SAS-574	588	A.H.System	2025/09/09 2026/09/05	2026/09/08 2027/09/04
Loop Antenna (9KHz-30MHz)	FMZB 1513-60	00115	SCHWARZBECK	2025/09/08 2026/09/04	2026/09/07 2027/09/03
MXG Signal Analyzer	N9020A	MY49100730	Agilent	2025/09/08 2026/09/04	2026/09/07 2027/09/03
MXG Vector Signal Generator	N5182A	MY50144920	Agilent	2025/09/08 2026/09/04	2026/09/07 2027/09/03
WIDEBAND RADIO COMMUNICATION TESTER	CMW500	/	ROHDE&SCHWA RZ	2025/09/08 2026/09/07	2026/09/07 2027/09/06
Power Sensor	MW100-RFC B-2	MW260105N TT-64	MWRFTtest	2025/09/08 2026/09/04	2026/09/07 2027/09/03
RF Swith	MW100-RFC B-1	MW260105N TT-64	MWRFTtest	2025/09/08 2026/09/04	2026/09/07 2027/09/03
Cable	RG223-3M	/	DA	2025/09/08 2026/09/04	2026/09/07 2027/09/03
Cable	RG223-12M	/	DA	2025/09/08 2026/09/04	2026/09/07 2027/09/03
Cable	SFT205-NM NMSW-2.5M	/	DA	2025/09/08 2026/09/04	2026/09/07 2027/09/03
Cable	SFT205-NM NM-12M	/	DA	2025/09/08 2026/09/04	2026/09/07 2027/09/03
Cable	UCA500-NJ WSM-1.5M	017	MWRFTtest	2025/09/08 2026/09/04	2026/09/07 2027/09/03

Test software

Item	Name	Manufacturer	Model	Software version
1	EMC Conduction Test System	FALA	EZ-EMC	Ver.EMC-CON 3A1.1+
2	EMC radiation test system	FALA	EZ-EMC	Ver.FA-03A2 RE+
3	RF test system	TACHOY	RFTest	V1.0.0
4	RF communication test system	TACHOY	RFTest	V1.0.0

2. Conducted emission at the mains terminals test

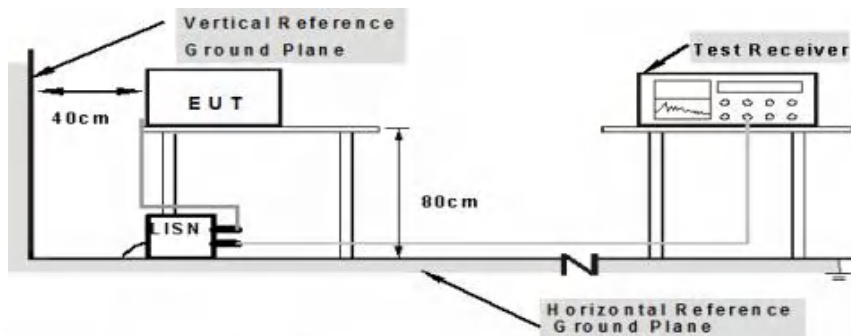
2.1.Limit

Test Requirement:	FCC Part15 C Section 15.207
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024
Test Frequency Range:	150KHz to 30MHz
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto

Frequency MHz	Limits dB(μV)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66 ~ 56*	56 ~ 46*
0.50 ~ 5.00	56	46
5.00 ~ 30.00	60	50

Notes: 1. *Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

2.2.Test Setup



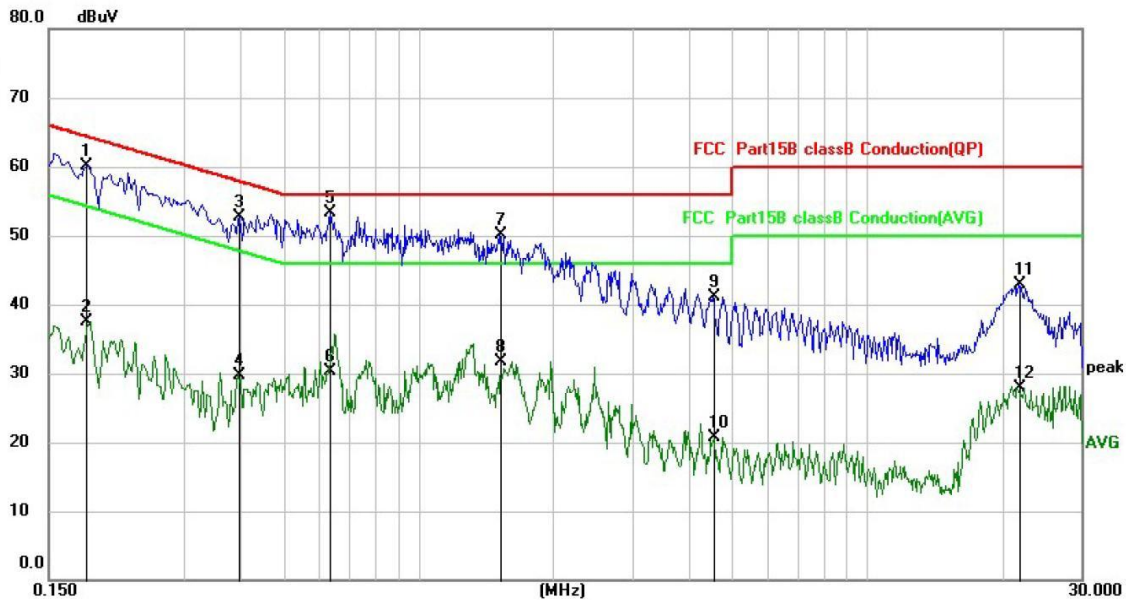
Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

2.3.Test Procedure

1. 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.
2. 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.
3. 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.
4. LISN at least 80 cm from nearest part of EUT chassis.
- 5.For the actual test configuration, please refer to the related Item - EUT Test Photos.

2.4.Test Result

Conducted Emission At The Mains Terminals Test Data			
Temperature:	25.1℃	Relative Humidity:	56%
Pressure:	1008hPa	Phase :	Line
Test Voltage :	AC 120V/60Hz	Test Mode:	802.11b(CH00)

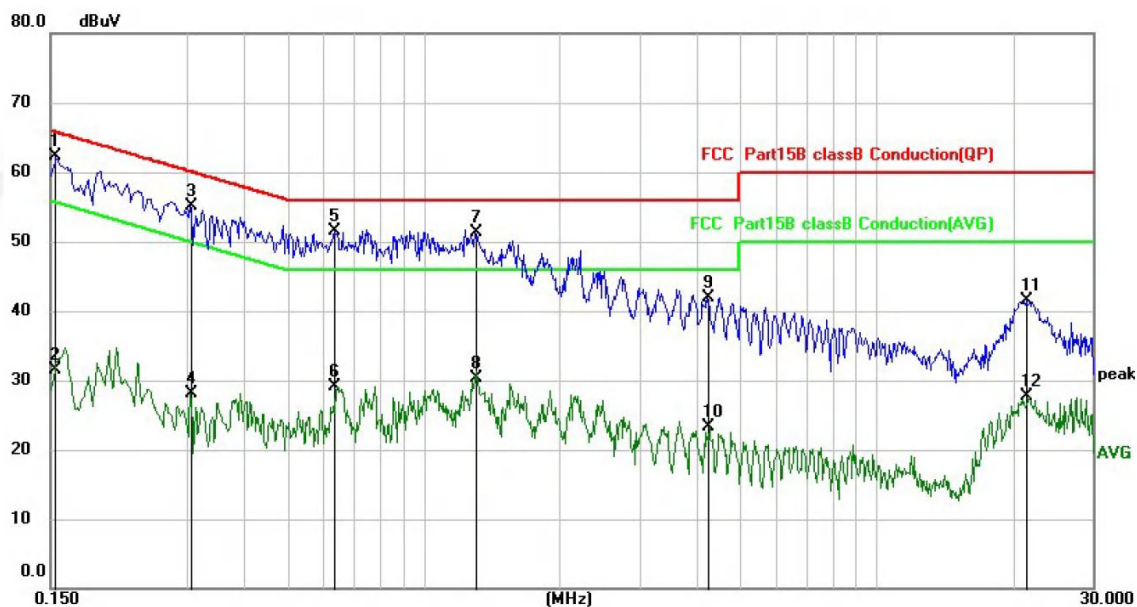


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBμV	dB	dBμV	dBμV	dB	Detector
1		0.1819	49.39	10.80	60.19	64.40	-4.21	QP
2		0.1819	26.67	10.80	37.47	54.40	-16.93	AVG
3		0.3980	42.16	10.57	52.73	57.90	-5.17	QP
4		0.3980	19.23	10.57	29.80	47.90	-18.10	AVG
5	*	0.6340	42.89	10.46	53.35	56.00	-2.65	QP
6		0.6340	19.82	10.46	30.28	46.00	-15.72	AVG
7		1.5260	39.69	10.47	50.16	56.00	-5.84	QP
8		1.5260	21.26	10.47	31.73	46.00	-14.27	AVG
9		4.5259	30.57	10.50	41.07	56.00	-14.93	QP
10		4.5259	10.25	10.50	20.75	46.00	-25.25	AVG
11		21.7300	31.77	11.08	42.85	60.00	-17.15	QP
12		21.7300	16.92	11.08	28.00	50.00	-22.00	AVG

Note:

1. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
2. Margin = Reading level + Correct Factor - Limit
3. All the modes have tested and recorded the worst mode(802.11b) in the report

Conducted Emission At The Mains Terminals Test Data			
Temperature:	25.1°C	Relative Humidity:	56%
Pressure:	1008hPa	Phase :	Neutral
Test Voltage :	AC 120V/60Hz	Test Mode:	802.11b(CH00)



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV	dBuV	dB	
1	*	0.1539	51.38	10.87	62.25	65.79	-3.54	QP
2		0.1539	20.55	10.87	31.42	55.79	-24.37	AVG
3		0.3059	44.39	10.66	55.05	60.08	-5.03	QP
4		0.3059	17.53	10.66	28.19	50.08	-21.89	AVG
5		0.6340	40.95	10.46	51.41	56.00	-4.59	QP
6		0.6340	18.55	10.46	29.01	46.00	-16.99	AVG
7		1.2980	40.91	10.46	51.37	56.00	-4.63	QP
8		1.2980	19.77	10.46	30.23	46.00	-15.77	AVG
9		4.2378	31.45	10.50	41.95	56.00	-14.05	QP
10		4.2378	12.74	10.50	23.24	46.00	-22.76	AVG
11		21.4420	30.34	11.07	41.41	60.00	-18.59	QP
12		21.4420	16.70	11.07	27.77	50.00	-22.23	AVG

Note:

1. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
2. Margin = Reading level + Correct Factor - Limit
3. All the modes have tested and recorded the worst mode(802.11b) in the report

3. Radiated Spurious Emissions

3.1.Limit

Test Requirement: FCC CFR47 Part 15 Section 15.209 & 15.247
 Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019;
 ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024
 Test Result: PASS
 Measurement Distance: 3m

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	120KHz	360KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	10Hz	Average

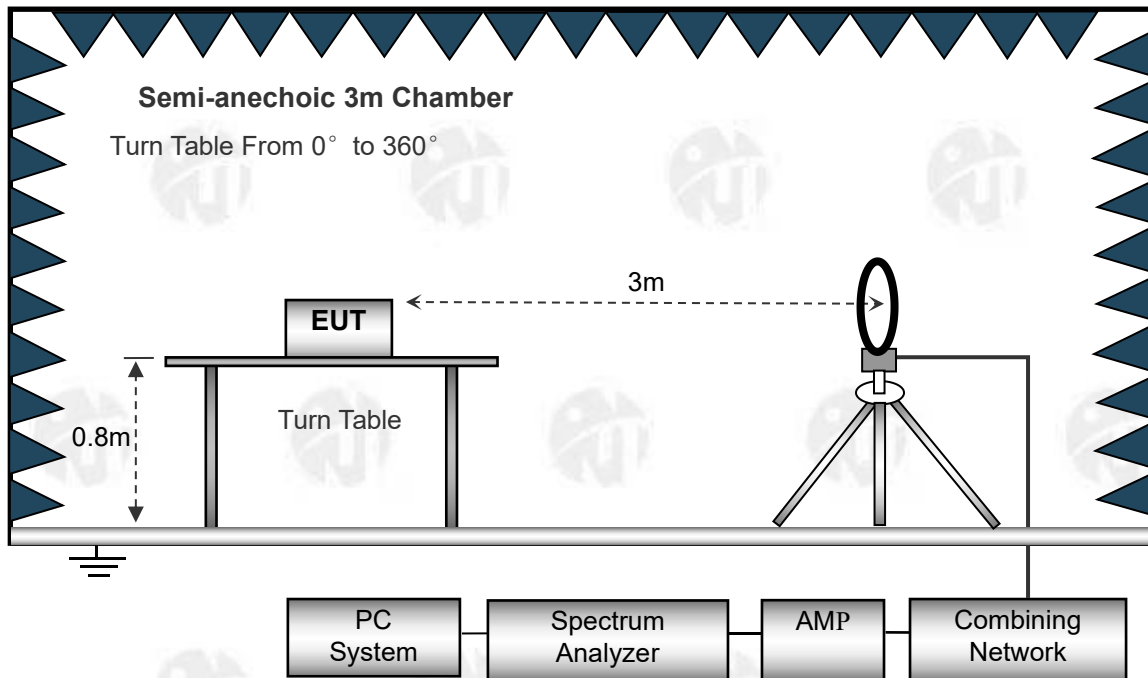
Limit:

Frequency (MHz)	Field Strength		Field Strength Limit at 3m Measurement Dist	
	uV/m	Distance (m)	uV/m	dBuV/m
0.009 ~ 0.490	$2400/F(\text{kHz})$	300	$10000 * 2400/F(\text{kHz})$	$20\log(2400/F(\text{kHz})) + 80$
0.490 ~ 1.705	$24000/F(\text{kHz})$	30	$100 * 24000/F(\text{kHz})$	$20\log(24000/F(\text{kHz})) + 40$
1.705 ~ 30	30	30	$100 * 30$	$20\log(30) + 40$
30 ~ 88	100	3	100	$20\log(100)$
88 ~ 216	150	3	150	$20\log(150)$
216 ~ 960	200	3	200	$20\log(200)$
Above 960	500	3	500	$20\log(500)$

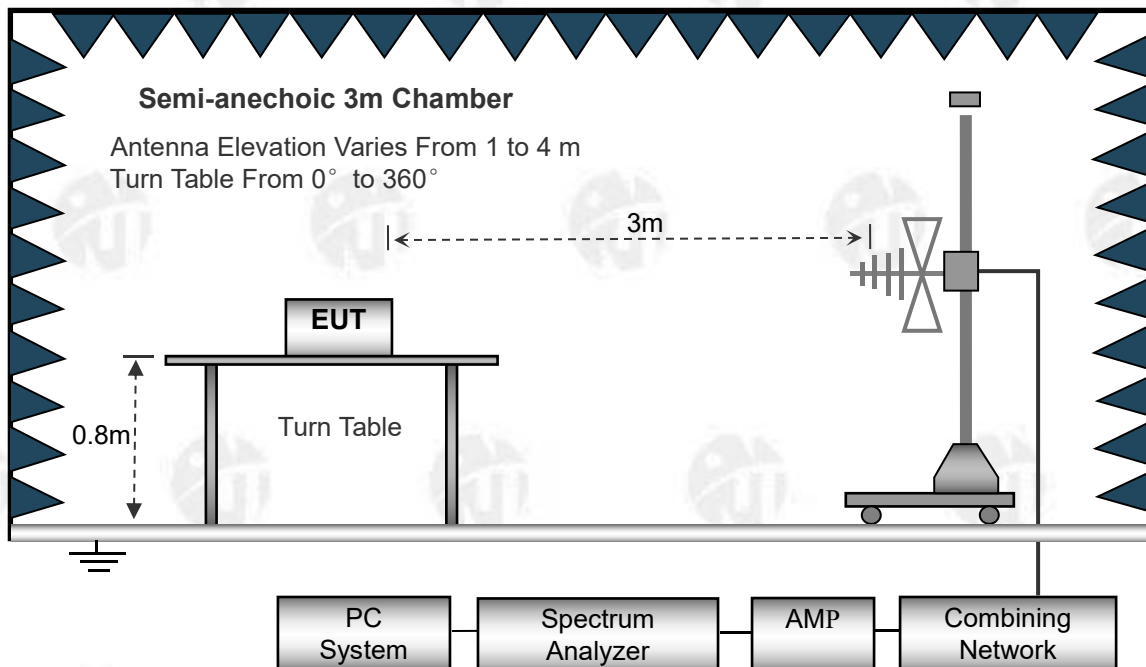
3.2.Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.10.

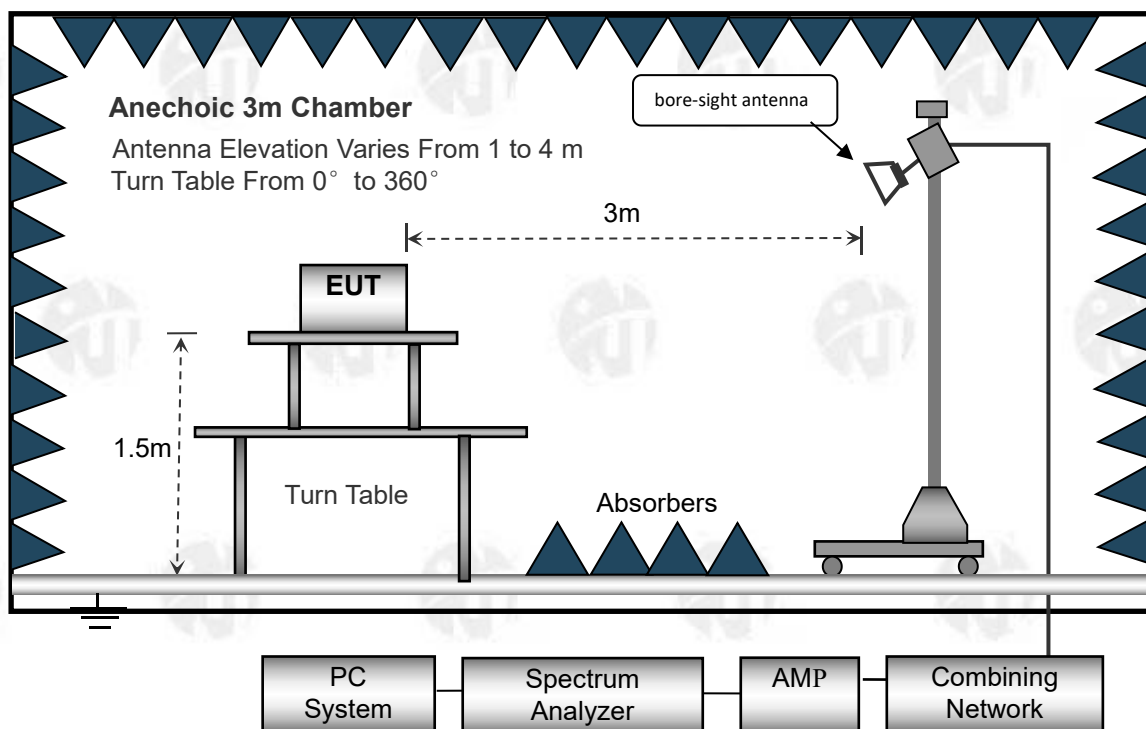
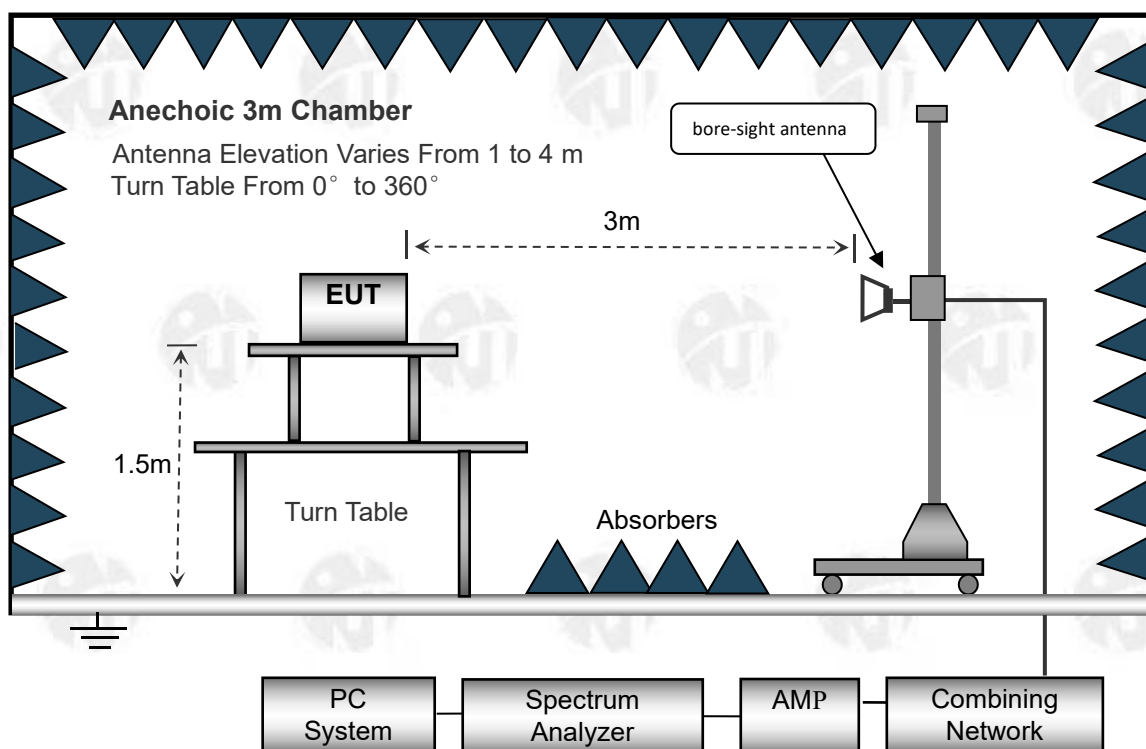
The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30 MHz to 1 GHz.



The test setup for emission measurement above 1 GHz.



3.3.Test Procedure

1. The EUT is placed on a turntable, which is 0.8m above ground plane for below 1GHz and 1.5m for above 1GHz.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The radiation measurements are performed in X,Y and Z axis positioning(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand),the worst condition was tested putting the eut in Z axis,so the worst data were shown as follow.
8. A 2.4GHz high - pass filter is used during radiated emissions above 1GHz measurement.

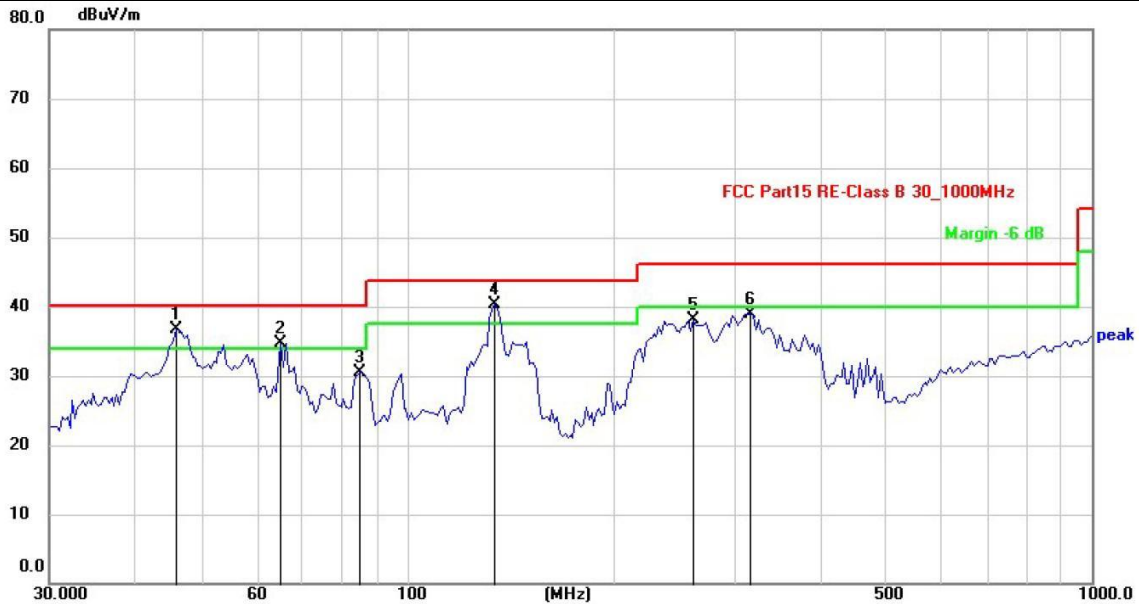
3.4.Test Result

Test Frequency: 9KHz~30MHz

The measurements were more than 20 dB below the limit and not reported.

Test Frequency : 30MHz ~ 1GHz

Radiation Emission Test Data			
Temperature:	25.1℃	Relative Humidity:	56%
Pressure:	1008hPa	Phase :	Horizontal
Test Voltage :	AC 120V/60Hz	Test Mode :	802.11b(2462.00MHz)



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1	!	46.0970	42.27	-5.62	36.65	40.00	-3.35	QP
2	!	65.4578	39.62	-4.98	34.64	40.00	-5.36	QP
3		85.1486	40.21	-9.65	30.56	40.00	-9.44	QP
4	*	134.3232	46.17	-5.90	40.27	43.50	-3.23	QP
5		261.5163	43.76	-5.58	38.18	46.00	-7.82	QP
6		317.1444	41.91	-3.05	38.86	46.00	-7.14	QP

Note:

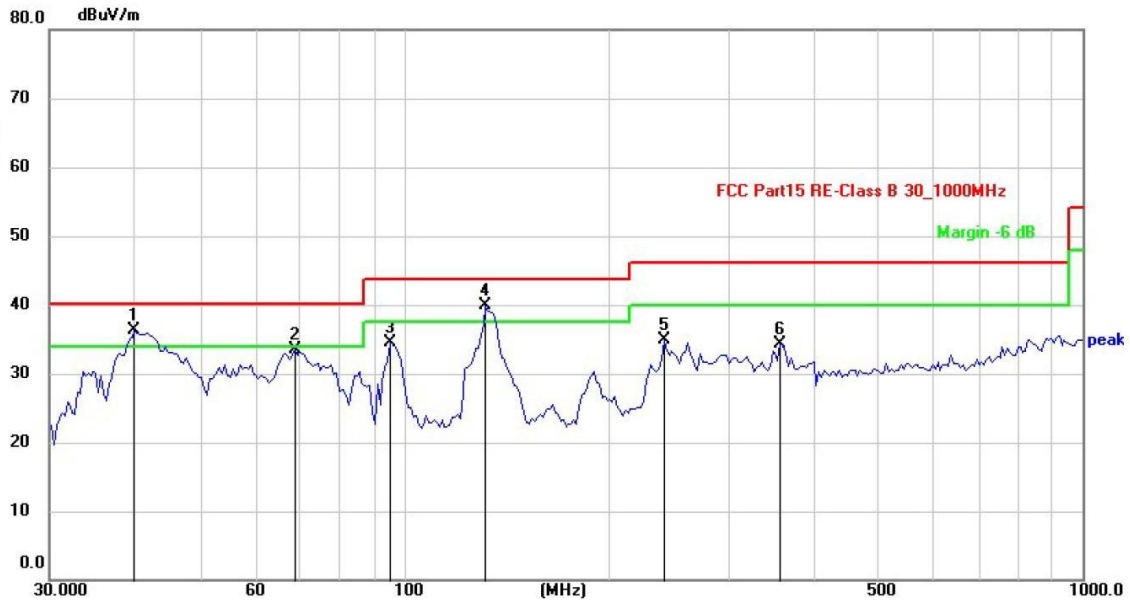
1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Emission Level = Reading + Factor

Margin=Emission Level-Limit

2. All the modes have tested and recorded the worst mode(802.11b) in the report

Radiation Emission Test Data			
Temperature:	25.1°C	Relative Humidity:	56%
Pressure:	1008hPa	Phase :	Vertical
Test Voltage :	AC 120V/60Hz	Test Mode :	802.11b(2462.00MHz)



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1	!	40.0643	42.32	-6.05	36.27	40.00	-3.73	QP
2		68.9929	38.77	-5.25	33.52	40.00	-6.48	QP
3		95.4269	44.93	-10.45	34.48	43.50	-9.02	QP
4	*	131.9889	46.05	-6.19	39.86	43.50	-3.64	QP
5		241.6762	41.43	-6.52	34.91	46.00	-11.09	QP
6		358.5568	36.80	-2.44	34.36	46.00	-11.64	QP

Note:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Emission Level = Reading + Factor

Margin=Emission Level-Limit

2. All the modes have tested and recorded the worst mode(802.11b) in the report

Test Frequency 1GHz-25GHz

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel:2412MHz									
V	4824	44.49	34.12	5.03	32.39	47.79	74	-26.21	Pk
V	4824	36.04	34.12	5.03	32.39	39.34	54	-14.66	AV
V	7236	46.08	32.54	6.29	35.86	55.69	74	-18.31	Pk
V	7236	33.18	32.54	6.29	35.86	42.79	54	-11.21	AV
V	9648	35.87	32.98	7.55	38.4	48.84	74	-25.16	Pk
V	9648	27.15	32.98	7.55	38.4	40.12	54	-13.88	AV
V	12060	36.60	32.09	8.93	39	52.44	74	-21.56	Pk
V	12060	25.49	32.09	8.93	39	41.33	54	-12.67	AV
H	4824	46.52	34.12	5.03	32.39	49.82	74	-24.18	Pk
H	4824	35.09	34.12	5.03	32.39	38.39	54	-15.61	AV
H	7236	43.16	32.54	6.29	35.86	52.77	74	-21.23	Pk
H	7236	27.32	32.54	6.29	35.86	36.93	54	-17.07	AV
H	9648	36.85	32.98	7.55	38.4	49.82	74	-24.18	Pk
H	9648	24.35	32.98	7.55	38.4	37.32	54	-16.68	AV
H	12060	37.13	32.09	8.93	39	52.97	74	-21.03	Pk
H	12060	25.47	32.09	8.93	39	41.31	54	-12.69	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Middle Channel:2437MHz									
V	4874	51.49	34.07	5.09	32.59	55.10	74	-18.90	Pk
V	4874	36.34	34.07	5.09	32.59	39.95	54	-14.05	AV
V	7311	45.89	32.63	6.34	35.96	55.56	74	-18.44	Pk
V	7311	32.49	32.63	6.34	35.96	42.16	54	-11.84	AV
V	9748	42.84	32.92	7.59	38.4	55.91	74	-18.09	Pk
V	9748	31.43	32.92	7.59	38.4	44.50	54	-9.50	AV
V	12815	45.60	31.96	8.88	39.04	61.56	74	-12.44	Pk
V	12815	28.86	31.96	8.88	39.04	44.82	54	-9.18	AV
H	4874	47.97	34.07	5.09	32.59	51.58	74	-22.42	Pk
H	4874	32.16	34.07	5.09	32.59	35.77	54	-18.23	AV
H	7311	41.22	32.63	6.34	35.96	50.89	74	-23.11	Pk
H	7311	33.50	32.63	6.34	35.96	43.17	54	-10.83	AV
H	9748	45.90	32.92	7.59	38.4	58.97	74	-15.03	Pk
H	9748	28.18	32.92	7.59	38.4	41.25	54	-12.75	AV
H	12815	35.65	31.96	8.88	39.04	51.61	74	-22.39	Pk
H	12815	26.35	31.96	8.88	39.04	42.31	54	-11.69	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
High Channel:2462MHz									
V	4924	48.15	34.02	5.15	32.8	52.08	74	-21.92	Pk
V	4924	32.00	34.02	5.15	32.8	35.93	54	-18.07	AV
V	7386	38.18	32.71	6.4	36.05	47.92	74	-26.08	Pk
V	7386	32.44	32.71	6.4	36.05	42.18	54	-11.82	AV
V	9848	40.46	32.86	7.62	38.4	53.62	74	-20.38	Pk
V	9848	26.72	32.86	7.62	38.4	39.88	54	-14.12	AV
V	12310	39.53	31.82	8.84	39.08	55.63	74	-18.37	Pk
V	12310	27.26	31.82	8.84	39.08	43.36	54	-10.64	AV
H	4924	44.18	34.02	5.15	32.8	48.11	74	-25.89	Pk
H	4924	36.18	34.02	5.15	32.8	40.11	54	-13.89	AV
H	7386	43.52	32.71	6.4	36.05	53.26	74	-20.74	Pk
H	7386	29.56	32.71	6.4	36.05	39.30	54	-14.70	AV
H	9848	39.48	32.86	7.62	38.4	52.64	74	-21.36	Pk
H	9848	29.86	32.86	7.62	38.4	43.02	54	-10.98	AV
H	12310	37.56	31.82	8.84	39.08	53.66	74	-20.34	Pk
H	12310	25.98	31.82	8.84	39.08	42.08	54	-11.92	AV

Note: 1. The testing has been conformed to 10*2480MHz=24800MHz.

2. All other emissions more than 30dB below the limit.

3. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Emission Level = Reading + Factor

Margin=Emission Level-Limit

All the modes have tested and recorded the worst mode(802.11b) in the report.

The 1-25GHz range has been tested, and the report only records the worst performance of the 1-18G range.

Radiated Band Emission Measurement:

	Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre- amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
802.11b	Low Channel: 2412MHz									
	H	2390	61.27	35.17	3.48	27.49	57.07	74	-16.93	PK
	H	2390	50.46	35.17	3.48	27.49	46.26	54	-7.74	AV
	H	2400	61.70	35.16	3.49	27.52	57.55	74	-16.45	PK
	H	2400	52.47	35.16	3.49	27.52	48.32	54	-5.68	AV
	V	2390	60.49	35.17	3.48	27.49	56.29	74	-17.71	PK
	V	2390	51.80	35.17	3.48	27.49	47.60	54	-6.40	AV
	V	2400	60.15	35.16	3.49	27.52	56.00	74	-18.00	PK
	V	2400	52.44	35.16	3.49	27.52	48.29	54	-5.71	AV
	High Channel: 2462MHz									
	H	2483.5	58.46	35.11	3.56	27.75	54.66	74	-19.34	PK
	H	2483.5	48.83	35.11	3.56	27.75	45.03	54	-8.97	AV
	H	2500	61.67	35.1	3.57	27.8	57.94	74	-16.06	PK
	H	2500	52.15	35.1	3.57	27.8	48.42	54	-5.58	AV
	V	2483.5	60.33	35.11	3.56	27.75	56.53	74	-17.47	PK
	V	2483.5	50.50	35.11	3.56	27.75	46.70	54	-7.30	AV
	V	2500	59.19	35.1	3.57	27.8	55.46	74	-18.54	PK
	V	2500	51.40	35.1	3.57	27.8	47.67	54	-6.33	AV
802.11g	Low Channel: 2412MHz									
	H	2390	59.87	35.17	3.48	27.49	55.67	74	-18.33	PK
	H	2390	50.94	35.17	3.48	27.49	46.74	54	-7.26	AV
	H	2400	61.36	35.16	3.49	27.52	57.21	74	-16.79	PK
	H	2400	52.78	35.16	3.49	27.52	48.63	54	-5.37	AV
	V	2390	58.19	35.17	3.48	27.49	53.99	74	-20.01	PK
	V	2390	49.48	35.17	3.48	27.49	45.28	54	-8.72	AV
	V	2400	60.00	35.16	3.49	27.52	55.85	74	-18.15	PK
	V	2400	49.63	35.16	3.49	27.52	45.48	54	-8.52	AV
	High Channel: 2462MHz									
	H	2483.5	59.42	35.11	3.56	27.75	55.62	74	-18.38	PK
	H	2483.5	50.65	35.11	3.56	27.75	46.85	54	-7.15	AV
	H	2500	59.36	35.1	3.57	27.8	55.63	74	-18.37	PK
	H	2500	51.00	35.1	3.57	27.8	47.27	54	-6.73	AV
	V	2483.5	59.73	35.11	3.56	27.75	55.93	74	-18.07	PK
	V	2483.5	52.27	35.11	3.56	27.75	48.47	54	-5.53	AV
	V	2500	59.47	35.1	3.57	27.8	55.74	74	-18.26	PK
	V	2500	51.06	35.1	3.57	27.8	47.33	54	-6.67	AV
802.11 n20	Low Channel: 2412MHz									
	H	2390	58.23	35.17	3.48	27.49	54.03	74	-19.97	PK
	H	2390	51.32	35.17	3.48	27.49	47.12	54	-6.88	AV
	H	2400	62.17	35.16	3.49	27.52	58.02	74	-15.98	PK
	H	2400	51.31	35.16	3.49	27.52	47.16	54	-6.84	AV
	V	2390	57.81	35.17	3.48	27.49	53.61	74	-20.39	PK
	V	2390	51.39	35.17	3.48	27.49	47.19	54	-6.81	AV
	V	2400	61.74	35.16	3.49	27.52	57.59	74	-16.41	PK
	V	2400	52.33	35.16	3.49	27.52	48.18	54	-5.82	AV

High Channel: 2462MHz										
	H	2483.5	58.11	35.11	3.56	27.75	54.31	74	-19.69	PK
	H	2483.5	49.24	35.11	3.56	27.75	45.44	54	-8.56	AV
	H	2500	59.55	35.1	3.57	27.8	55.82	74	-18.18	PK
	H	2500	52.19	35.1	3.57	27.8	48.46	54	-5.54	AV
	V	2483.5	61.18	35.11	3.56	27.75	57.38	74	-16.62	PK
	V	2483.5	50.55	35.11	3.56	27.75	46.75	54	-7.25	AV
	V	2500	60.76	35.1	3.57	27.8	57.03	74	-16.97	PK
	V	2500	51.47	35.1	3.57	27.8	47.74	54	-6.26	AV
Low Channel 2422MHz										
802.11 n40	H	2390	59.94	35.17	3.48	27.49	55.74	74	-18.26	PK
	H	2390	50.08	35.17	3.48	27.49	45.88	54	-8.12	AV
	H	2400	61.35	35.16	3.49	27.52	57.20	74	-16.80	PK
	H	2400	51.65	35.16	3.49	27.52	47.50	54	-6.50	AV
	V	2390	59.98	35.17	3.48	27.49	55.78	74	-18.22	PK
	V	2390	52.42	35.17	3.48	27.49	48.22	54	-5.78	AV
	V	2400	61.09	35.16	3.49	27.52	56.94	74	-17.06	PK
	V	2400	52.66	35.16	3.49	27.52	48.51	54	-5.49	AV
	H	2390	58.68	35.17	3.48	27.49	54.48	74	-19.52	PK
	High Channel 2452MHz									
	H	2483.5	58.52	35.11	3.56	27.75	54.72	74	-19.28	PK
	H	2483.5	50.35	35.11	3.56	27.75	46.55	54	-7.45	AV
	H	2500	61.21	35.1	3.57	27.8	57.48	74	-16.52	PK
	H	2500	51.15	35.1	3.57	27.8	47.42	54	-6.58	AV
	V	2483.5	58.54	35.11	3.56	27.75	54.74	74	-19.26	PK
	V	2483.5	52.18	35.11	3.56	27.75	48.38	54	-5.62	AV
	V	2500	59.93	35.1	3.57	27.8	56.20	74	-17.80	PK
	V	2500	51.98	35.1	3.57	27.8	48.25	54	-5.75	AV

Remark:

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

Margin= Emission Level - Limit

2. If peak below the average limit, the average emission was no test.

3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

4. Duty cycle

4.1.Limit

Test Requirement: FCC CFR47 Part 15 Section 15.247
 Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019;
 ANSI C63.10-2020 + Cor. 1-2023+ C63.10a-2024 + Errata to C63.10a-2024
 Test Result: PASS

4.2.Test Setup



4.3.Test Procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer:
 - a) Set the center frequency of the instrument to the center frequency of the transmission.
 - b) Set RBW $\geq$ OBW if possible; otherwise, set RBW to the largest available value.
 - c) Set VBW $\geq$ RBW. Detector = peak or average.
 - d) Sweep time = auto couple.
 - e) Trace mode = max hold.
 - f) Allow trace to fully stabilize.

4.4.Test Result

Duty Cycle

Mode	Channel.	Duty Cycle(%)	Correction Factor (dB)
802.11b	LCH	100	0
	MCH	100	0
	HCH	100	0
802.11g	LCH	100	0
	MCH	100	0
	HCH	100	0
802.11n(HT20)	LCH	100	0
	MCH	100	0
	HCH	100	0

5. Conducted Spurious Emissions

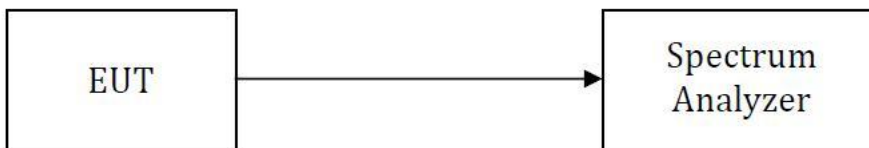
5.1.Limit

Test Requirement: FCC CFR47 Part 15 Section 15.247
Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019;
ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to
C63.10a-2024
Test Result: PASS

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. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

5.2.Test Setup



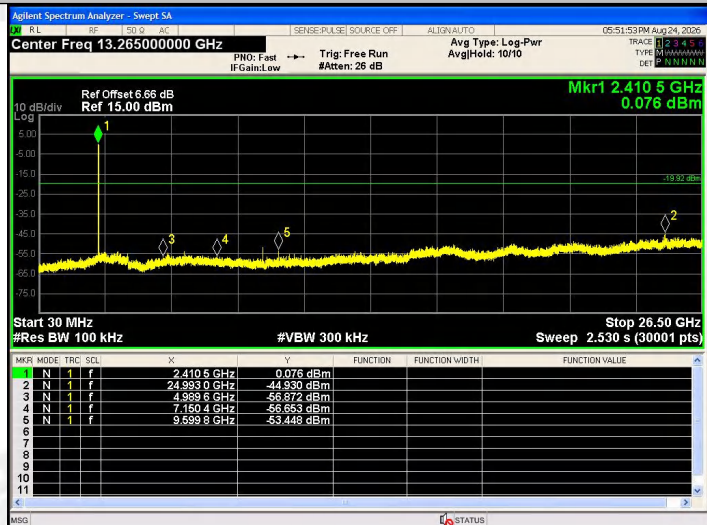
5.3.Test Procedure

- Set instrument center frequency to DTS channel center frequency.
 - Set the span to ≥ 1.5 times the DTS bandwidth.
 - Set the RBW = 100 kHz.
 - Set the VBW $\geq [3 \times \text{RBW}]$.
 - Detector = peak.
 - Sweep time = No faster than coupled (auto) time.
 - 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. Establish an emission level by using the following procedure:
- Set the center frequency and span to encompass frequency range to be measured. Note that the frequency range might need to be divided into multiple frequency ranges to retain frequency resolution.
- NOTE—the number of points can also be increased for large spans to retain frequency resolution
- Set the RBW = 100 kHz.
 - Set the VBW $\geq [3 \times \text{RBW}]$.
 - Detector = peak.
 - Sweep time = No faster than coupled (auto) time.
 - Trace mode = max-hold.
 - Allow trace to fully stabilize.
 - Use the peak marker function to determine the maximum amplitude level.

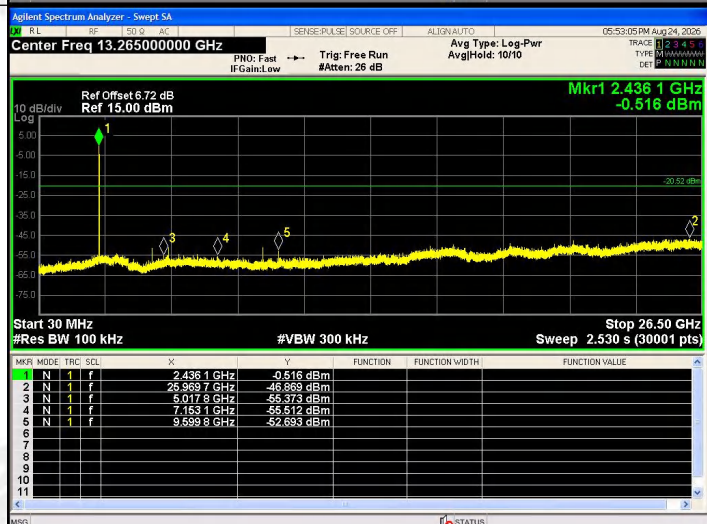
5.4.Test Result

RF Conducted Spurious Emissions Graphs

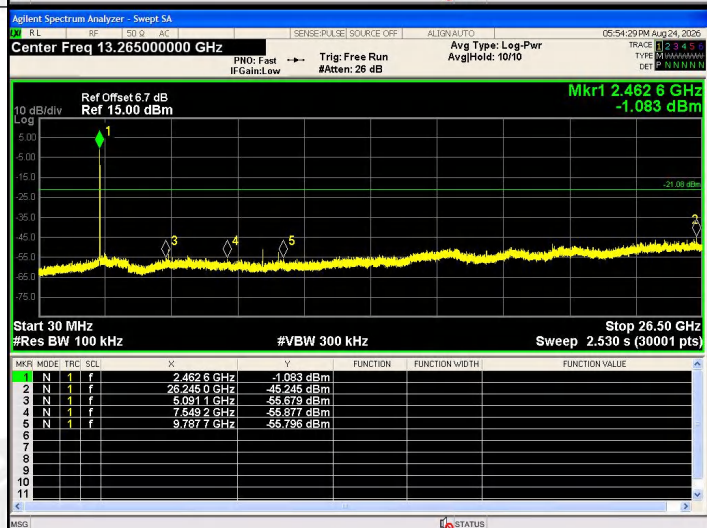
802.11b/LCH



802.11b/MCH

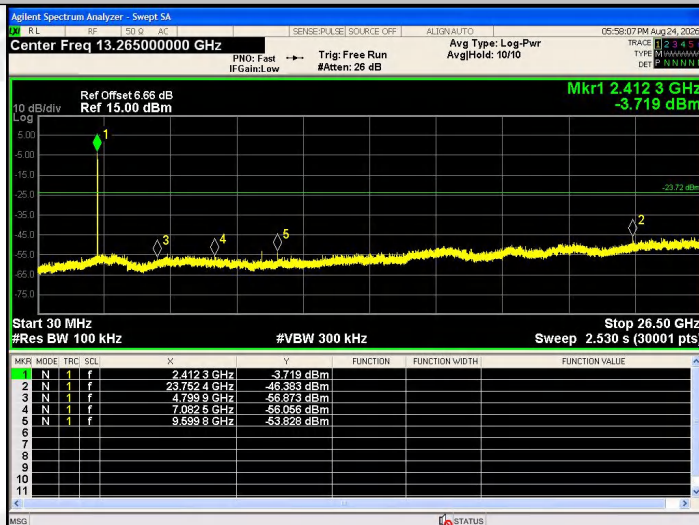


802.11b/HCH

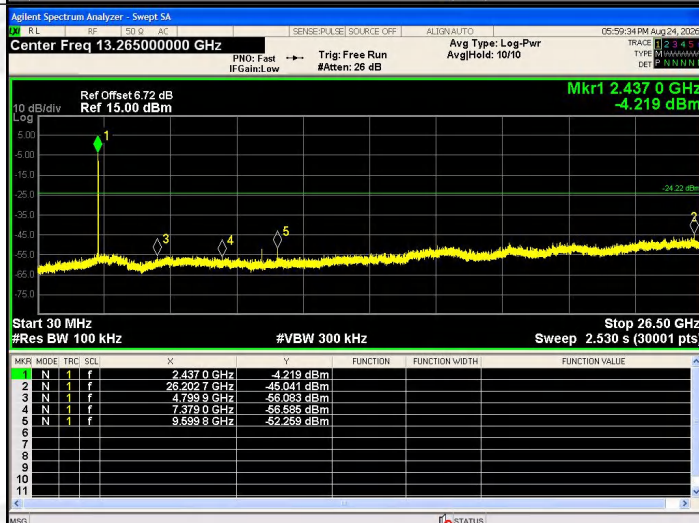


RF Conducted Spurious Emissions Graphs

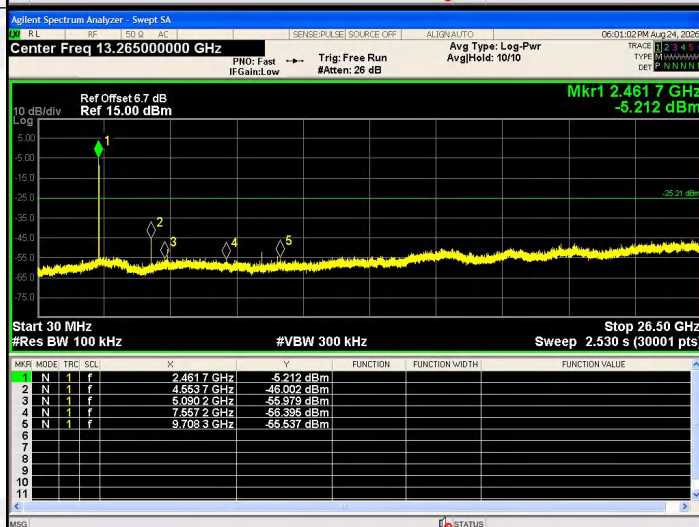
802.11g/LCH



802.11g/MCH

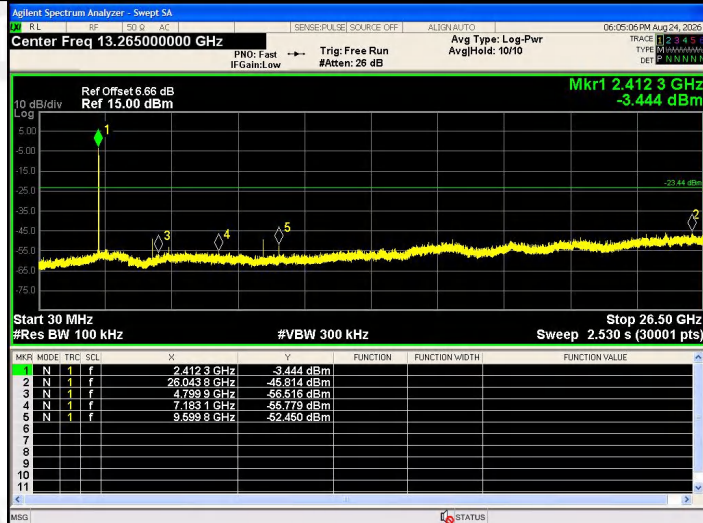


802.11g/HCH

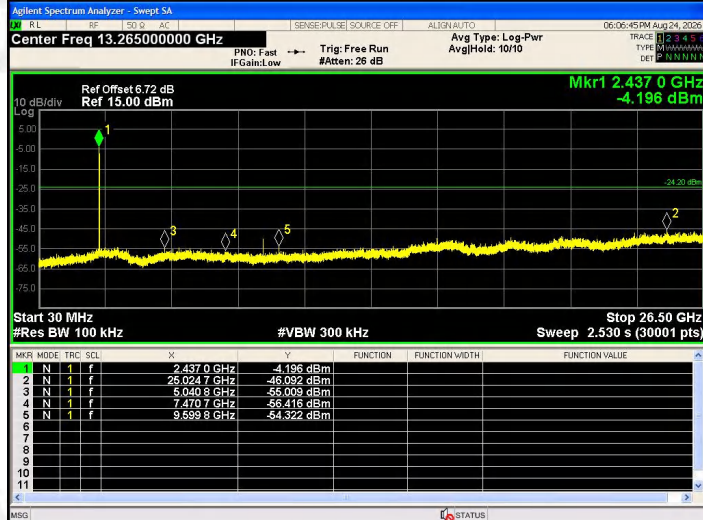


RF Conducted Spurious Emissions Graphs

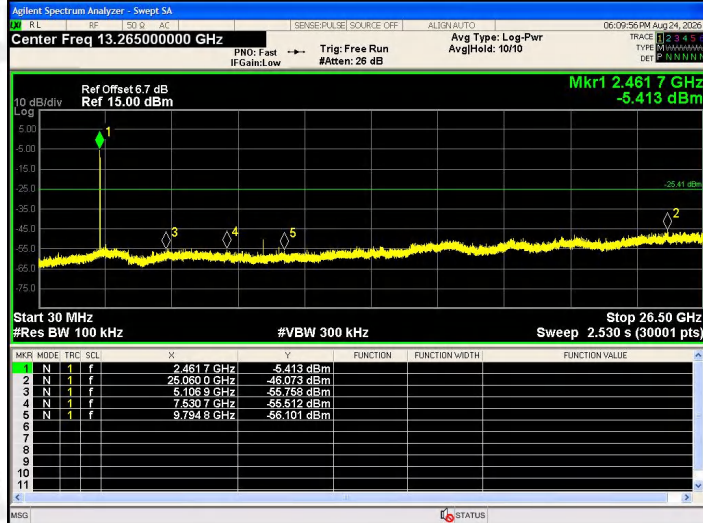
802.11n(HT20)/LCH



802.11n(HT20)/MCH



802.11n(HT20)/HCH



6. Band Edge Measurement

6.1.Limit

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02April 2,2019;

ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

Test Limit: Regulation 15.247 (d),In any 100 kHz bandwidth outside the frequency band 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. Attenuation below the general limits specified in §15.209(a) is not required. 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) (see §15.205(c)).

Test Mode: Transmitting

6.2.Test setup



6.3.Test Procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer:
3. Establish a reference level by using the following procedure
 - a) Set instrument center frequency to DTS channel center frequency.
 - b) Set the span to _ 1.5 times the DTS bandwidth.
 - c) Set the RBW = 100 kHz.
 - d) Set the VBW _ [3 × RBW].
 - e) Detector = peak.
 - f) Sweep time = No faster than coupled (auto) time.
 - g) Trace mode = max hold.
 - h) Allow trace to fully stabilize.
 - i) 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.

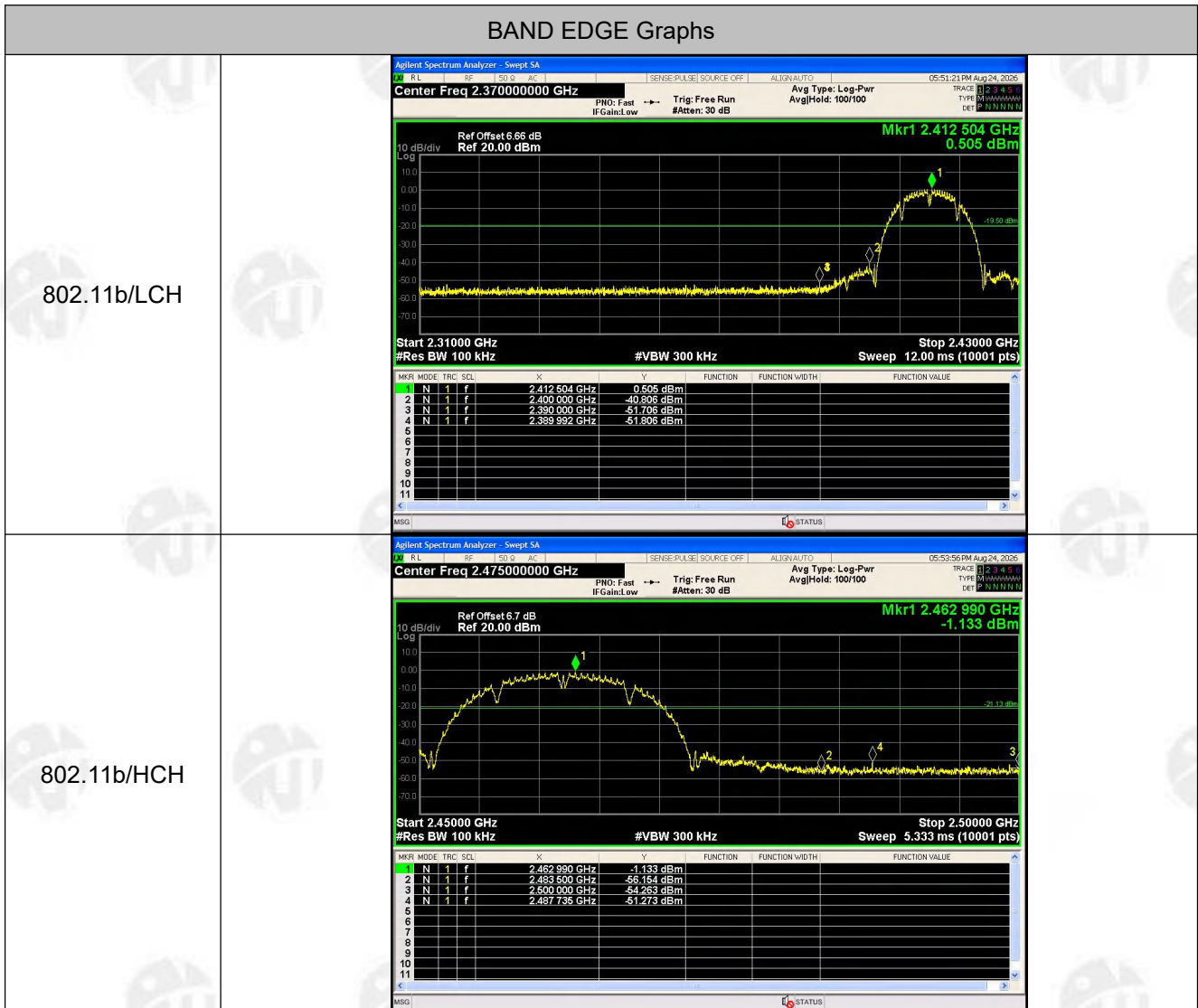
4. Establish an emission level by using the following procedure:

- a) Set the center frequency and span to encompass frequency range to be measured. Note that the frequency range might need to be divided into multiple frequency ranges to retain frequency resolution.

NOTE—the number of points can also be increased for large spans to retain frequency resolution

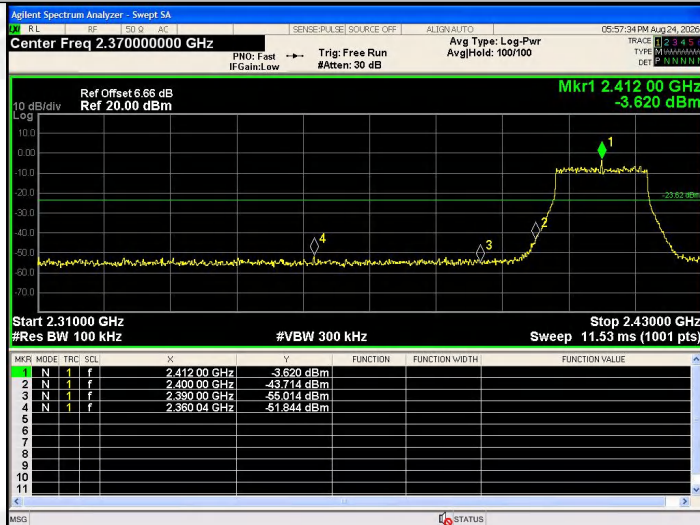
- b) Set the RBW = 100 kHz.
- c) Set the VBW ≥ [3 × RBW].
- d) Detector = peak.
- e) Sweep time = No faster than coupled (auto) time.
- f) Trace mode = max-hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the maximum amplitude level.

6.4.Test Result

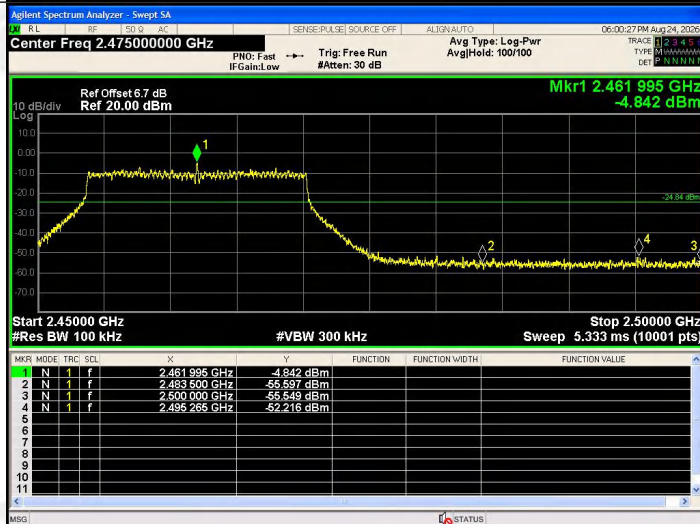


BAND EDGE Graphs

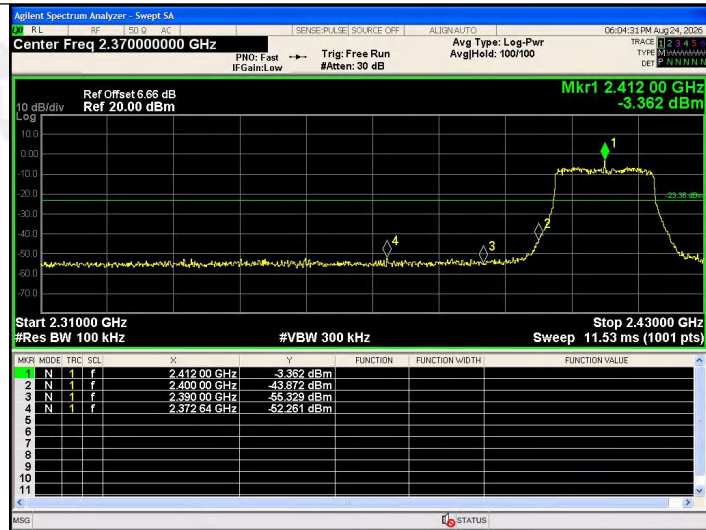
802.11g/LCH



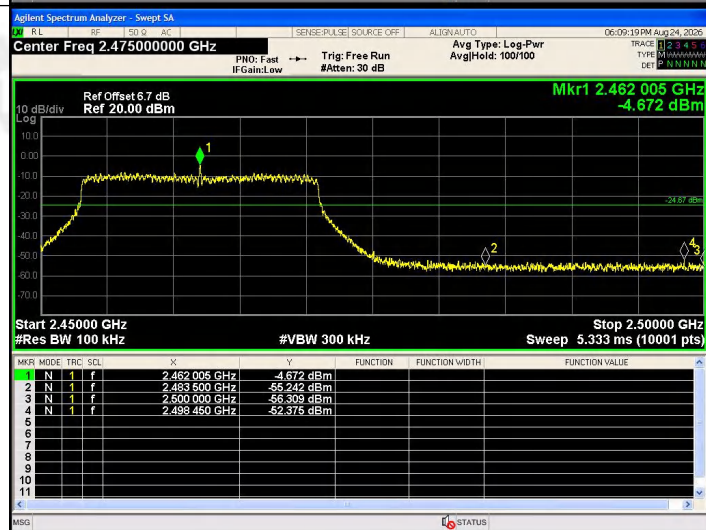
802.11g/HCH



802.11n(HT20)/LCH



802.11n(HT20)/HCH



7. -6 dB Bandwidth and 99% Bandwidth Measurement

7.1.Limit

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02April 2,2019; ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

7.2.Test Setup



7.3.Test Procedure

DTS Bandwidth

- a) Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
- b) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
- c) Set the VBW $\geq [3 \times \text{RBW}]$.
- d) Detector = peak.
- e) Trace mode = max-hold.
- f) Sweep = No faster than coupled (auto) time.
- g) Allow the trace to stabilize.

99% Bandwidth

- a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be at least three times the RBW, unless otherwise specified by the applicable requirement
- c) Detector = peak.
- d) Trace mode = max-hold.
- e) Sweep = No faster than coupled (auto) time.
- f) Allow the trace to stabilize.

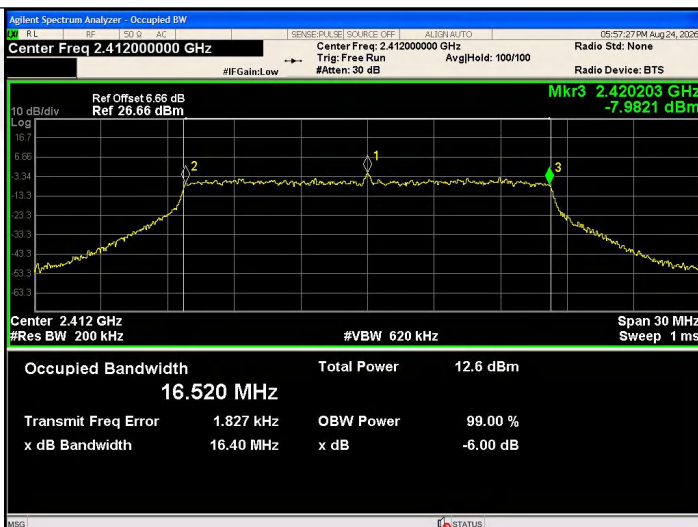
7.4.Test Result

Test Mode	Frequency	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit(kHz)	Result
802.11b	LCH	10.181	14.9795	500	PASS
	MCH	10.185	14.9674	500	PASS
	HCH	10.185	14.9758	500	PASS
802.11g	LCH	16.403	16.4893	500	PASS
	MCH	16.297	16.5212	500	PASS
	HCH	16.438	16.4975	500	PASS
802.11n(HT20)	LCH	17.363	17.6225	500	PASS
	MCH	17.227	17.6520	500	PASS
	HCH	17.3	17.6131	500	PASS

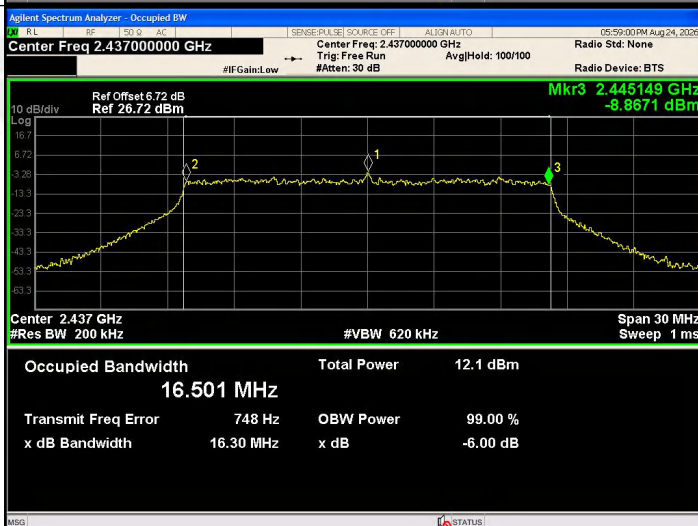
Test Graph:
6dB Bandwidth



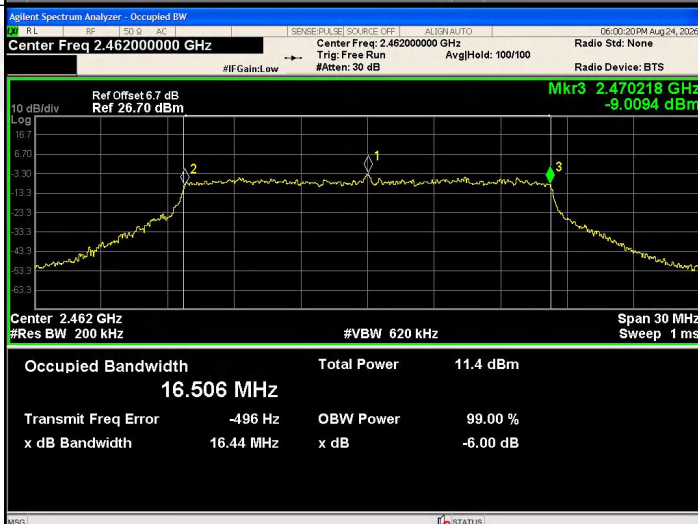
802.11g/LCH



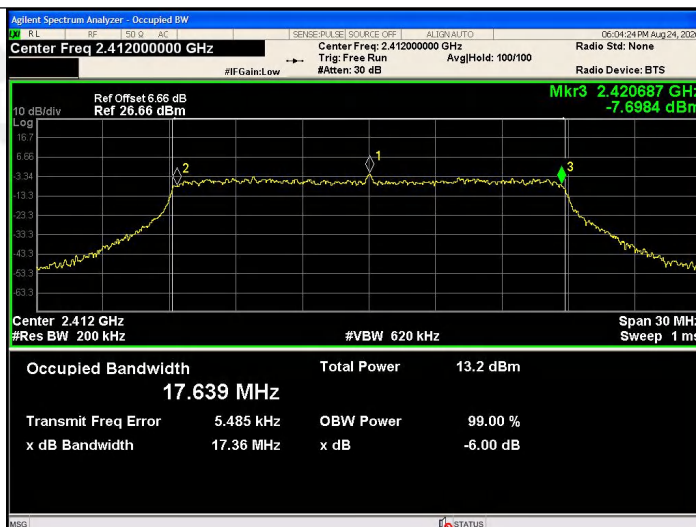
802.11g/MCH



802.11g/HCH



802.11n(HT20)/LCH



802.11n(HT20)/MCH



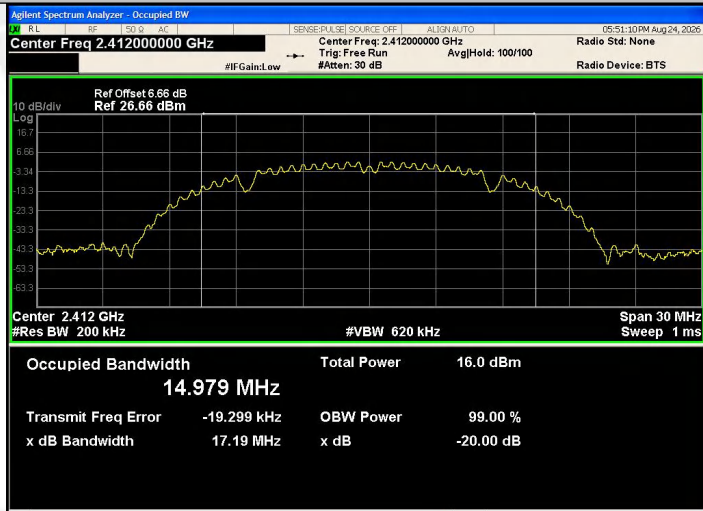
802.11n(HT20)/HCH



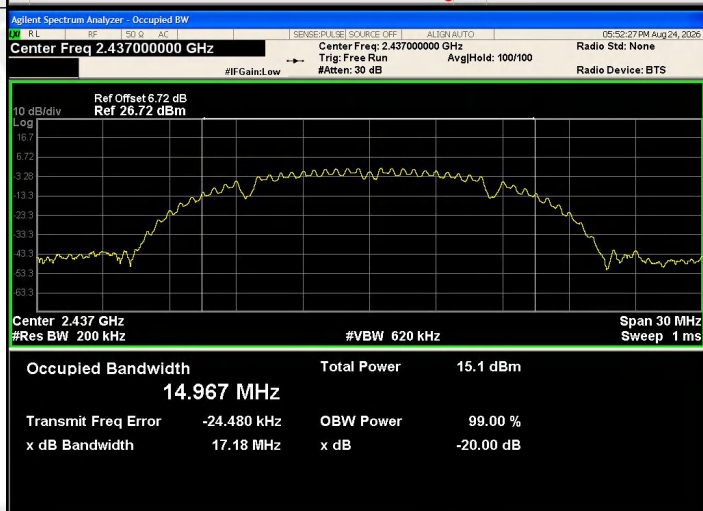
99% Bandwidth

Graphs

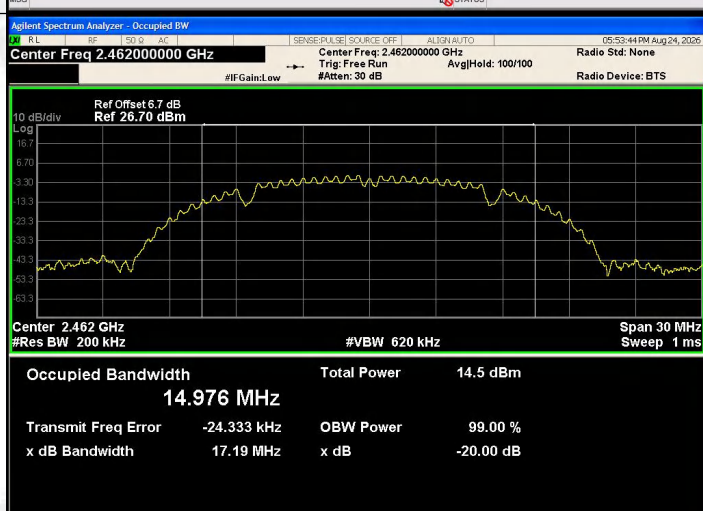
802.11b/LCH



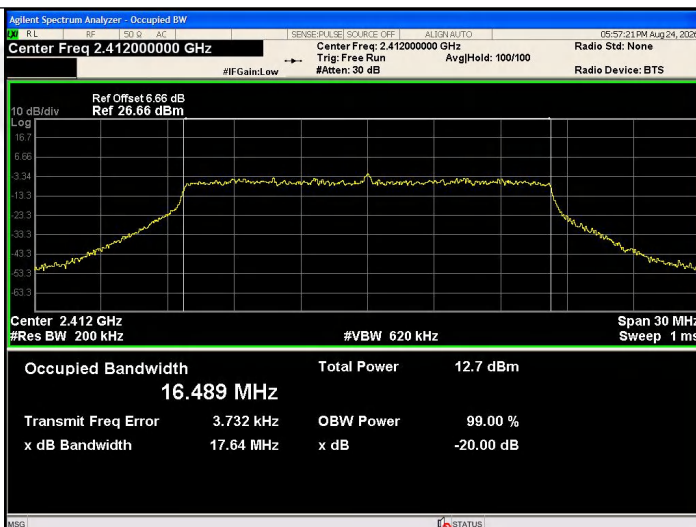
802.11b/MCH



802.11b/HCH



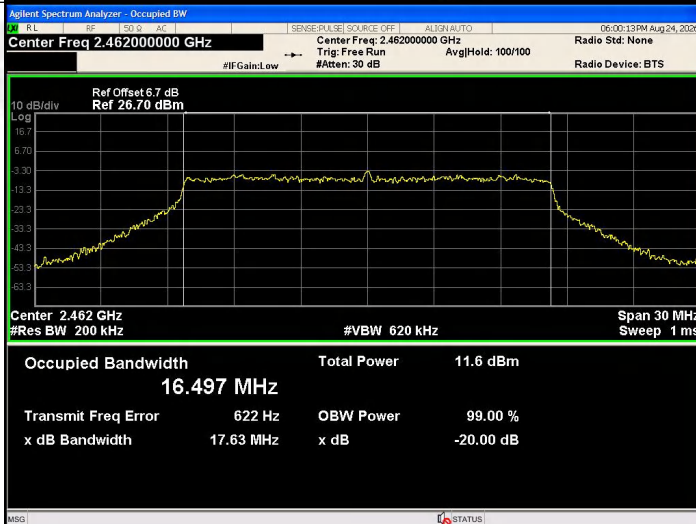
802.11g/LCH

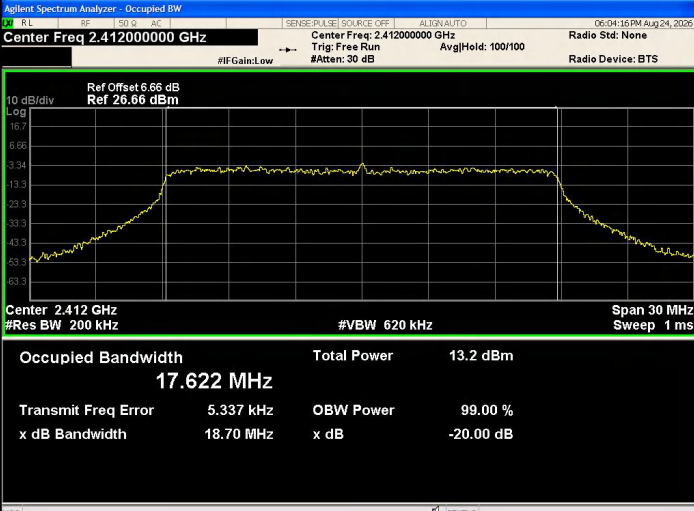
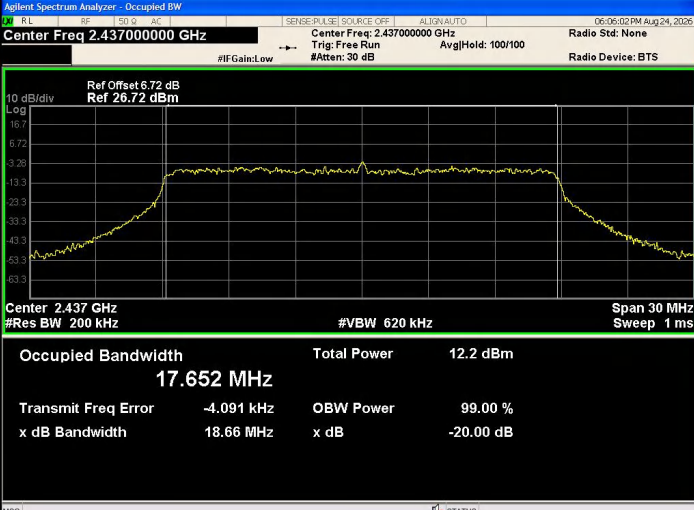
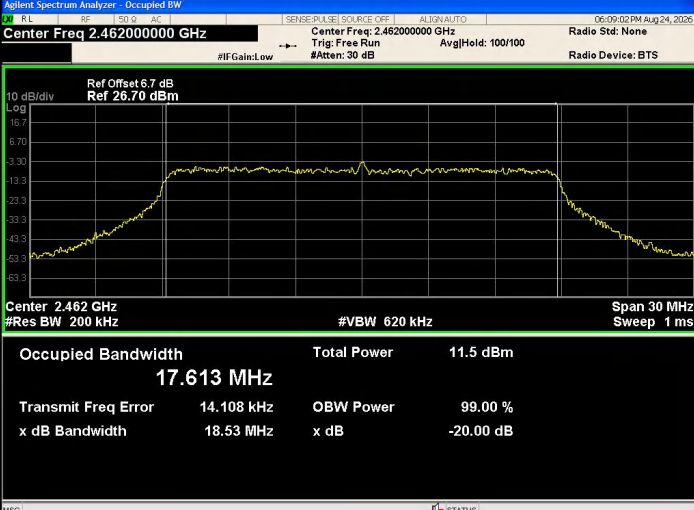


802.11g/MCH



802.11g/HCH



802.11n(HT20)/LCH	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.412000000 GHz Ref Offset 6.66 dB Ref 26.66 dBm Center 2.412 GHz #Res BW 200 kHz Occupied Bandwidth 17.622 MHz Total Power 13.2 dBm Transmit Freq Error 5.337 kHz x dB Bandwidth 18.70 MHz
802.11n(HT20)/MCH	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.437000000 GHz Ref Offset 6.72 dB Ref 26.72 dBm Center 2.437 GHz #Res BW 200 kHz Occupied Bandwidth 17.652 MHz Total Power 12.2 dBm Transmit Freq Error -4.091 kHz x dB Bandwidth 18.66 MHz
802.11n(HT20)/HCH	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.462000000 GHz Ref Offset 6.7 dB Ref 26.70 dBm Center 2.462 GHz #Res BW 200 kHz Occupied Bandwidth 17.613 MHz Total Power 11.5 dBm Transmit Freq Error 14.108 kHz x dB Bandwidth 18.53 MHz

8. Maximum Output Power

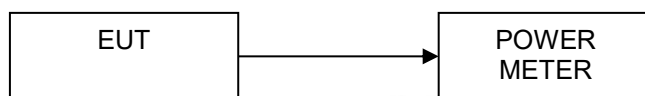
8.1.Limit

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02April 2,2019;ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

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

8.2.Test Setup



8.3.Test Procedure

ANSI C63.10-2020 section 11.9.2.2.5

Method AVGSA-2A uses rms detection with slow sweep with spectrum bin averaging across ON and OFF times of the EUT transmissions, followed by duty cycle correction. The procedure for this method is as follows:

- Measure the duty cycle D of the transmitter output signal as described in 11.6.
- Set span to >1.5 times the OBW.
- Set RBW = 1% to 5% of the OBW, but do not exceed 1 MHz.
- Set VBW $\geq [3 \times \text{RBW}]$.
- Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.)
- Manually set sweep time $\geq [10 \times (\text{number of points in sweep}) \times (\text{total ON/OFF period of the transmitted signal})]$.
- Set detector = Power averaging (rms).
- Perform a single sweep.
- Compute power by integrating the spectrum across the OBW of the signal using the instrument's band-power measurement function with band limits set equal to the OBW band-edges. If the instrument does not have a band-power function, then sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW.
- Add $[10 \log (1 / D)]$, where D is the duty cycle, to the measured power to compute the average power during the actual transmission times.

8.4.Test Result

Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
802.11b	LCH	14.368	30	PASS
	MCH	13.41	30	PASS
	HCH	12.744	30	PASS
802.11g	LCH	14.363	30	PASS
	MCH	13.796	30	PASS
	HCH	12.985	30	PASS
802.11n(HT20)	LCH	14.403	30	PASS
	MCH	13.324	30	PASS
	HCH	12.552	30	PASS

9. Power Spectral density

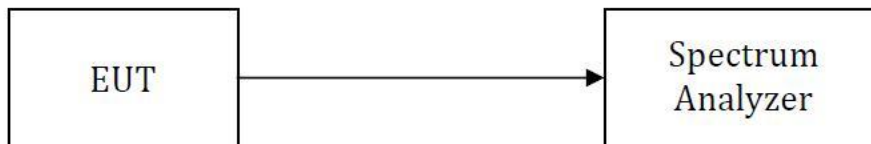
9.1.Limit

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02April 2,2019; ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

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

9.2.Test Setup



9.3.Test Procedure

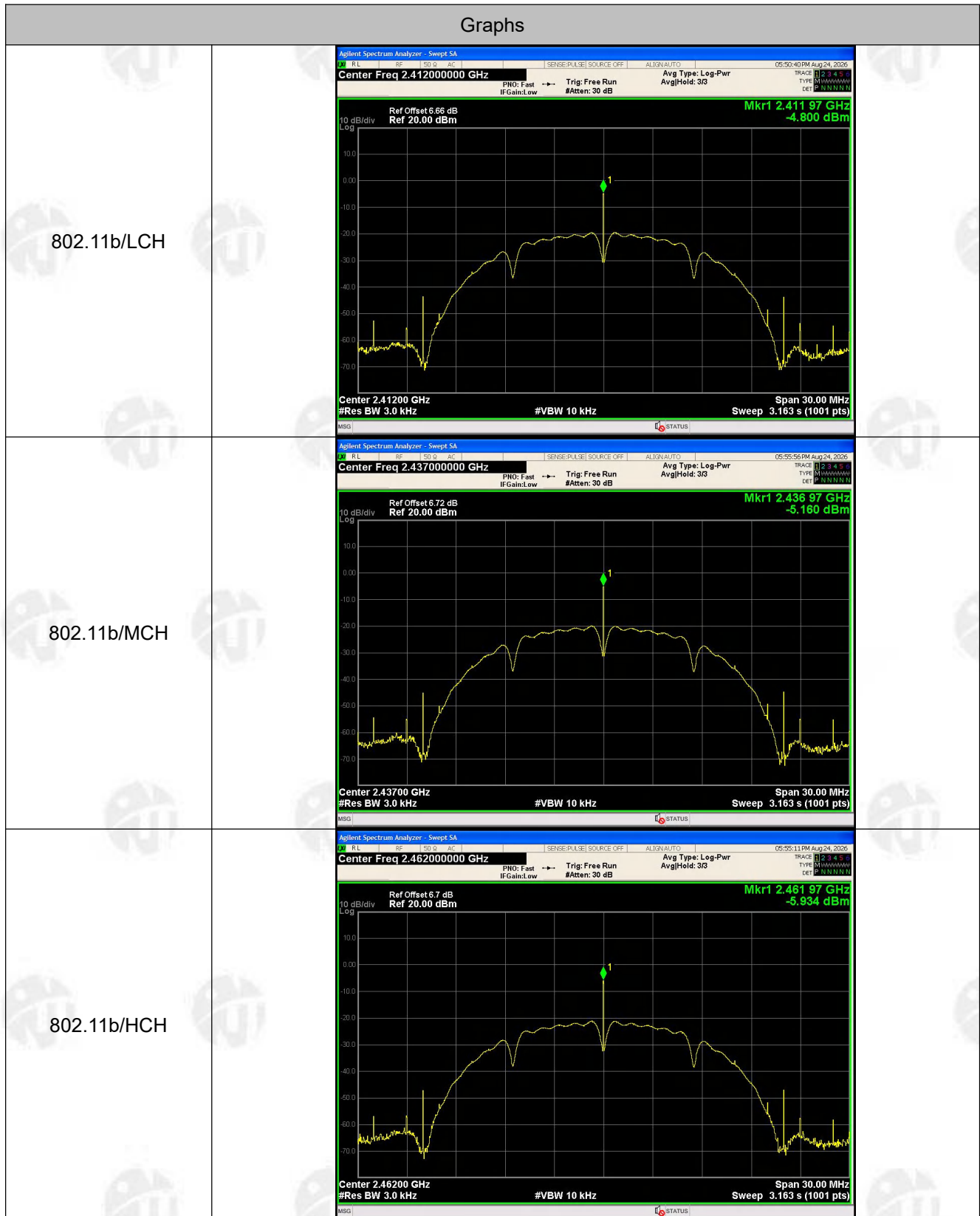
KDB 558074 D01 15.247 Meas Guidance v05r02;

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set instrument center frequency to DTS channel center frequency
3. Set span to > 1.5 times the OBW.
4. Set RBW to: $3\text{ kHz} \leq \text{RBW} \leq 100\text{ kHz}$
5. Set VBW $\geq [3 \times \text{RBW}]$
6. Detector = power averaging (rms) or sample detector (when rms not available).
7. Ensure that the number of measurement points in the sweep $\geq [2 \times \text{span} / \text{RBW}]$.
8. Sweep time = auto couple.
9. Employ trace averaging (rms) mode over a minimum of 100 traces.
10. Use the peak marker function to determine the maximum amplitude level.
11. If the measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat(note that this might require zooming in on the emission of interest and reducing the span to meetthe minimum measurement point requirement as the RBW is reduced).
12. Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section Submit this plot.

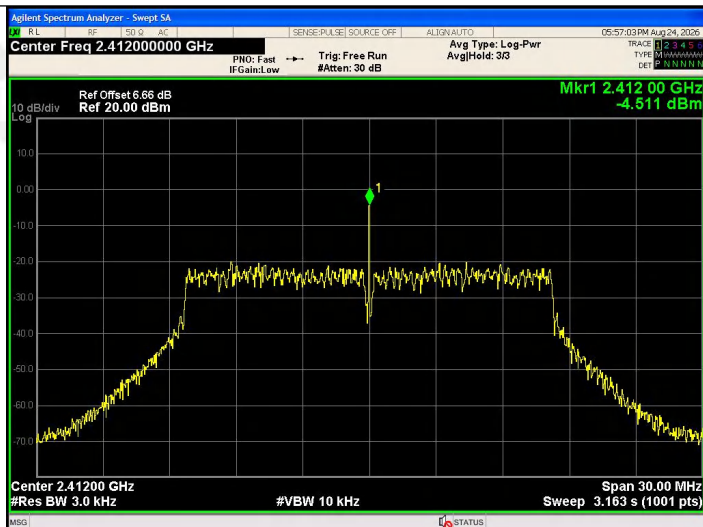
9.4.Test Result

Mode	Channel.	Power Spectral Density [dBm /3kHz]	Limit(8 dBm (in any 3kHz))	Verdict
802.11b	LCH	-4.8	8	PASS
	MCH	-5.16	8	PASS
	HCH	-5.934	8	PASS
802.11g	LCH	-4.511	8	PASS
	MCH	-4.974	8	PASS
	HCH	-5.727	8	PASS
802.11n(HT20)	LCH	-4.541	8	PASS
	MCH	-4.977	8	PASS
	HCH	-5.751	8	PASS

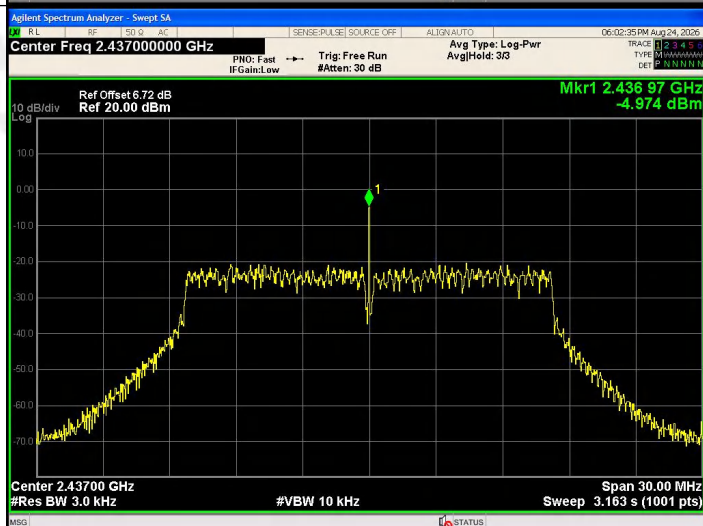
Test Graph



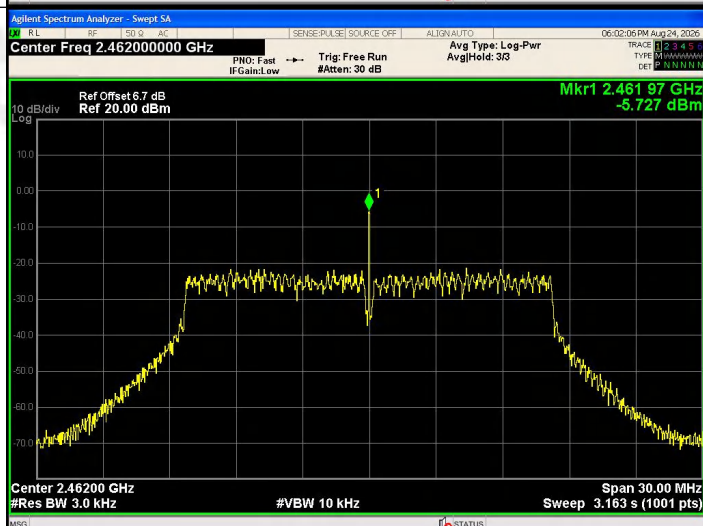
802.11g/LCH

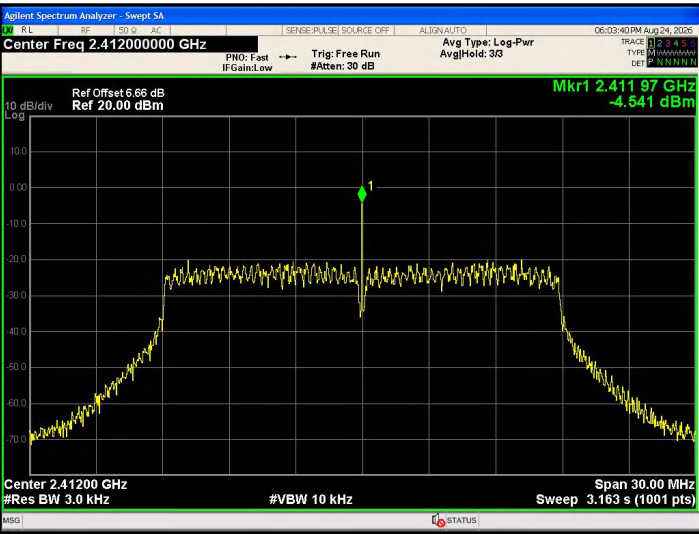
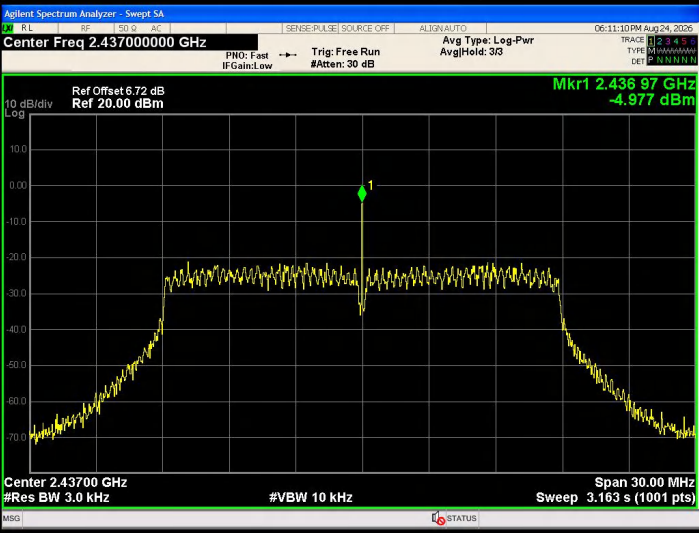
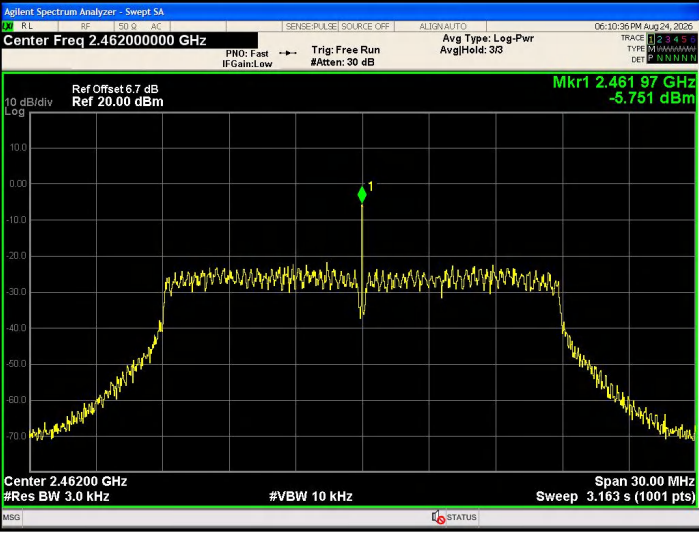


802.11g/MCH



802.11g/HCH



802.11n(HT20)/LCH	 Agilent Spectrum Analyzer - Swept SA Center Freq 2.41200000 GHz Ref Offset 6.66 dB Ref 20.00 dBm Mkr1 2.411 97 GHz -4.541 dBm Center 2.41200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)
802.11n(HT20)/MCH	 Agilent Spectrum Analyzer - Swept SA Center Freq 2.43700000 GHz Ref Offset 6.72 dB Ref 20.00 dBm Mkr1 2.436 97 GHz -4.977 dBm Center 2.43700 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)
802.11n(HT20)/HCH	 Agilent Spectrum Analyzer - Swept SA Center Freq 2.46200000 GHz Ref Offset 6.7 dB Ref 20.00 dBm Mkr1 2.461 97 GHz -6.751 dBm Center 2.46200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)

10. Antenna Requirement

According to the FCC Part 15 Paragraph 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. This product has an integrated antenna fulfill the requirement of this section.

This product has an External antenna, and the maximum antenna gain is 3.56dBi, fulfill the requirement of this section.

11. TEST SETUP & EUT PHOTOGRAPH

Please see the attachment for details.

----- End of Report -----