

TEST REPORT

Applicant : D2G Group LLC
Address : 81 Commerce Drive Fall River Massachusetts United states 02720
Manufacturer : Shenzhen Haoshida Technology Co., Ltd.
Address : No. 1, Tongfu Yu 1st Road, Second Industrial Zone, Loucun,
Guangming New District, Shenzhen, Guangdong Province
Product Name : 21.5 Counter PCAP TCH 14 OS
Model Number : DT215TLS
Trademark : N/A
FCC ID : 2ASCB-DT215TLS
Test Date : Aug. 03, 2026
Date of Report : Aug. 03, 2026 to Oct. 21, 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.

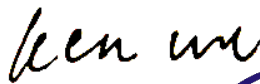
Test Procedure Used:

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

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[illegible]

1. General Information

1.1. Description of Device (EUT)

EUT Name	:	21.5 Counter PCAP TCH 14 OS
Model No.	:	DT215TLS
Model Difference	:	N/A
	:	INPUT:DC12V
Power supply		Adapter INPUT:100-240V~50/60Hz 1.5A
		Adapter OUTPUT:DC12V DC 12.0V $\approx$ 5.0A 60W
Operation frequency	:	2412-2462MHz for 802.11b/g/n20/ax20; 2422-2452MHz for 802.11n40/ax40
Modulation	:	802.11b:(DQPSK, DBPSK, CCK) DSSS 802.11g/n:(64-QAM, 16-QAM, QPSK, BPSK) OFDM 802.11ax:(1024-QAM, 256-QAM, 64-QAM, 16-QAM, QPSK, BPSK) OFDMA
Antenna Type	:	FPC antenna, Maximum Gain is 3.1dBi
Intend use environment	:	Residential, commercial and light industrial environment

1.2. Channel List

Frequency and Channel list for 802.11 b/g/n(HT20/HT40)/ax (HE20/HE40):

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/HT40)/ax (HE20/HE40):

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
/	/	/	/	/

1.6.Test mode

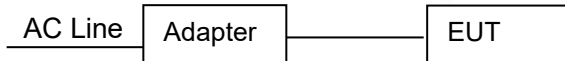
The special RF test software was used to control EUT work in Continuous WIFI TX mode, and select test channel, wireless mode.

Test mode	Low channel	Middle channel	High channel
802.11b	2412MHz	2437MHz	2462MHz
802.11g	2412MHz	2437MHz	2462MHz
802.11n20	2412MHz	2437MHz	2462MHz
802.11n40	2422MHz	2437MHz	2452MHz
802.11ax20	2412MHz	2437MHz	2462MHz
802.11ax40	2422MHz	2437MHz	2452MHz

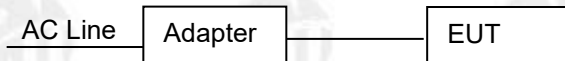
Note: All modes have been tested., Only the worst Data Record in the report

1.7.Block Diagram

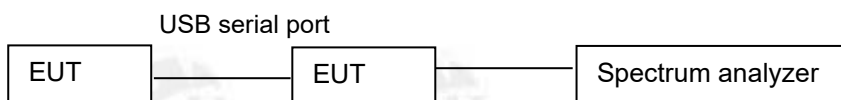
Radiated Emission



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	INPUT:DC12V Adapter INPUT:100-240V~50/60Hz 1.5A Adapter OUTPUT:DC12V	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
Amplifi (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

Pream plifier (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	MWRFTest	2025/09/08 2026/09/04	2026/09/07 2027/09/03
RF Swith	MW100-RFC B-1	MW260105N TT-64	MWRFTest	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	MWRFTest	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

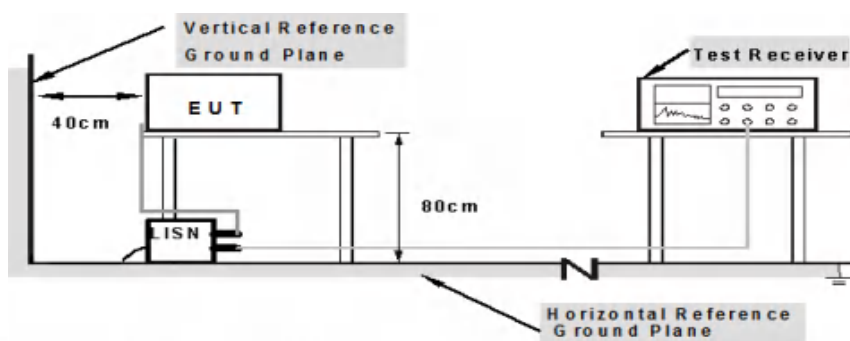
2.1.Limit

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

Frequency MHz	Limits dB(μ V)	
	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



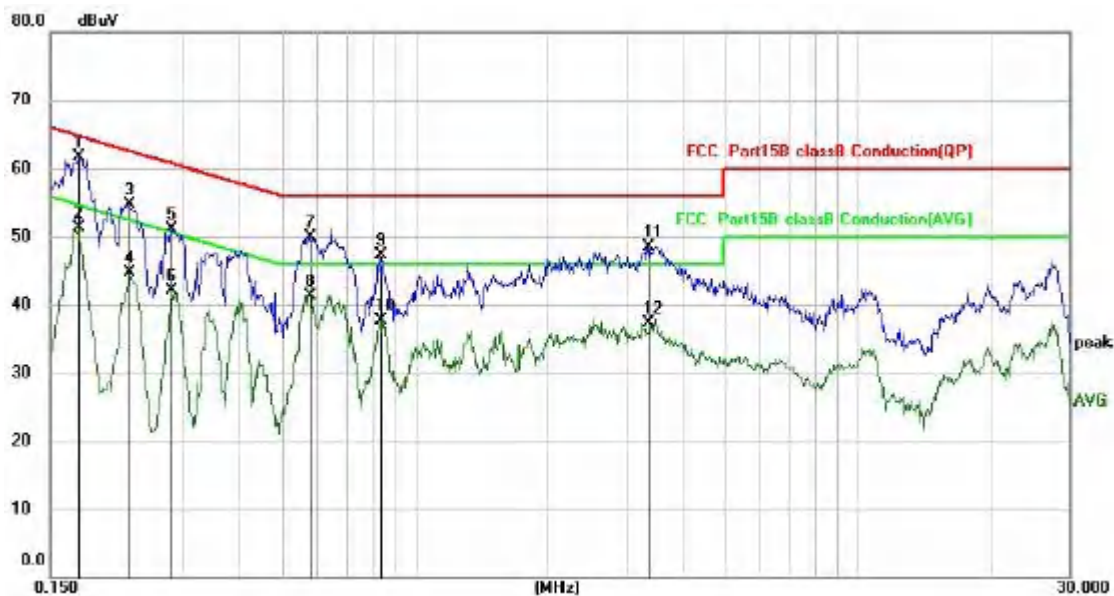
Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

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 :	DC 12V from Adapter Input AC 120V/60Hz	Test Mode:	802.11b(CH01)



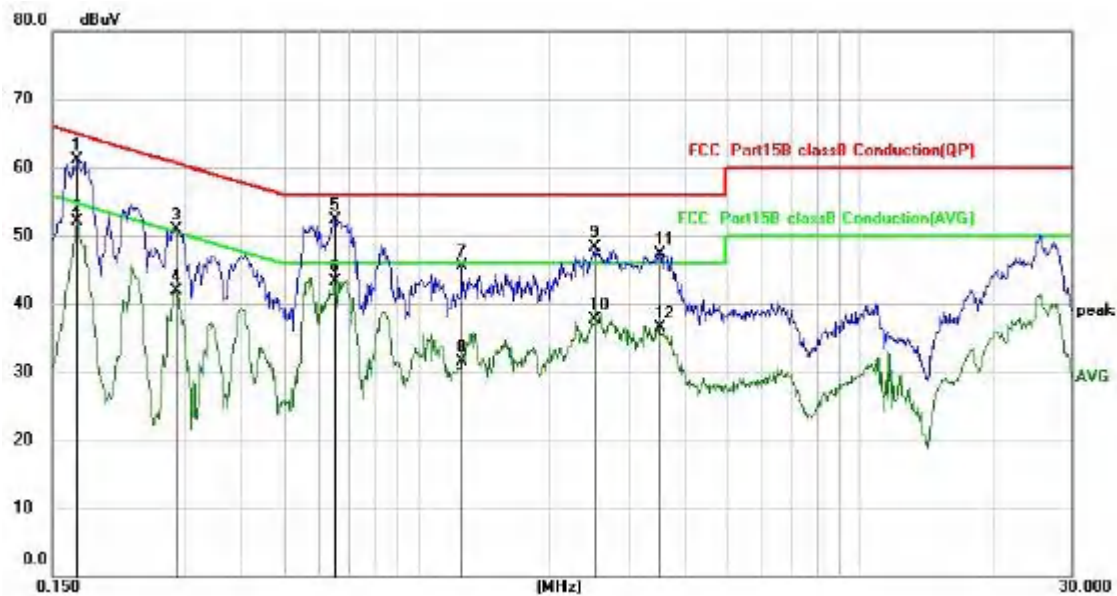
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1	*	0.1737	50.92	10.82	61.74	64.78	-3.04	QP
2		0.1737	40.47	10.82	51.29	54.78	-3.49	AVG
3		0.2260	44.01	10.73	54.74	62.60	-7.86	QP
4		0.2260	33.93	10.73	44.66	52.60	-7.94	AVG
5		0.2816	40.37	10.68	51.05	60.77	-9.72	QP
6		0.2816	31.47	10.68	42.15	50.77	-8.62	AVG
7		0.5776	39.41	10.47	49.88	56.00	-6.12	QP
8		0.5776	30.91	10.47	41.38	46.00	-4.62	AVG
9		0.8336	36.78	10.46	47.24	56.00	-8.76	QP
10		0.8336	27.32	10.46	37.78	46.00	-8.22	AVG
11		3.3580	38.02	10.49	48.51	56.00	-7.49	QP
12		3.3580	26.88	10.49	37.37	46.00	-8.63	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 :	DC 12V from Adapter Input AC 120V/60Hz	Test Mode:	802.11b(CH01)



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1711	50.32	10.83	61.15	64.91	-3.76	QP
2		0.1711	41.36	10.83	52.19	54.91	-2.72	AVG
3		0.2857	40.22	10.68	50.90	60.65	-9.75	QP
4		0.2857	31.21	10.68	41.89	50.65	-8.76	AVG
5		0.6542	41.82	10.46	52.28	56.00	-3.72	QP
6	*	0.6542	32.84	10.46	43.30	46.00	-2.70	AVG
7		1.2579	35.11	10.46	45.57	56.00	-10.43	QP
8		1.2579	20.97	10.46	31.43	46.00	-14.57	AVG
9		2.5219	37.78	10.48	48.26	56.00	-7.74	QP
10		2.5219	27.22	10.48	37.70	46.00	-8.30	AVG
11		3.5139	36.91	10.49	47.40	56.00	-8.60	QP
12		3.5139	25.95	10.49	36.44	46.00	-9.56	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
 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

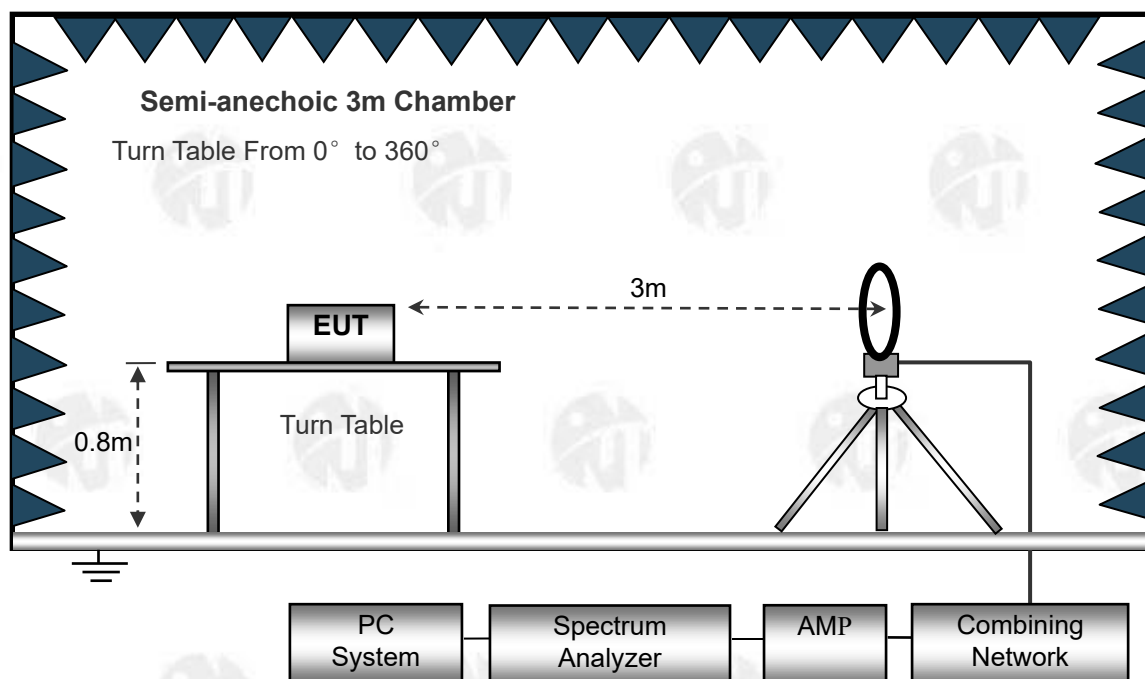
Limit:

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	$20\log(500)$

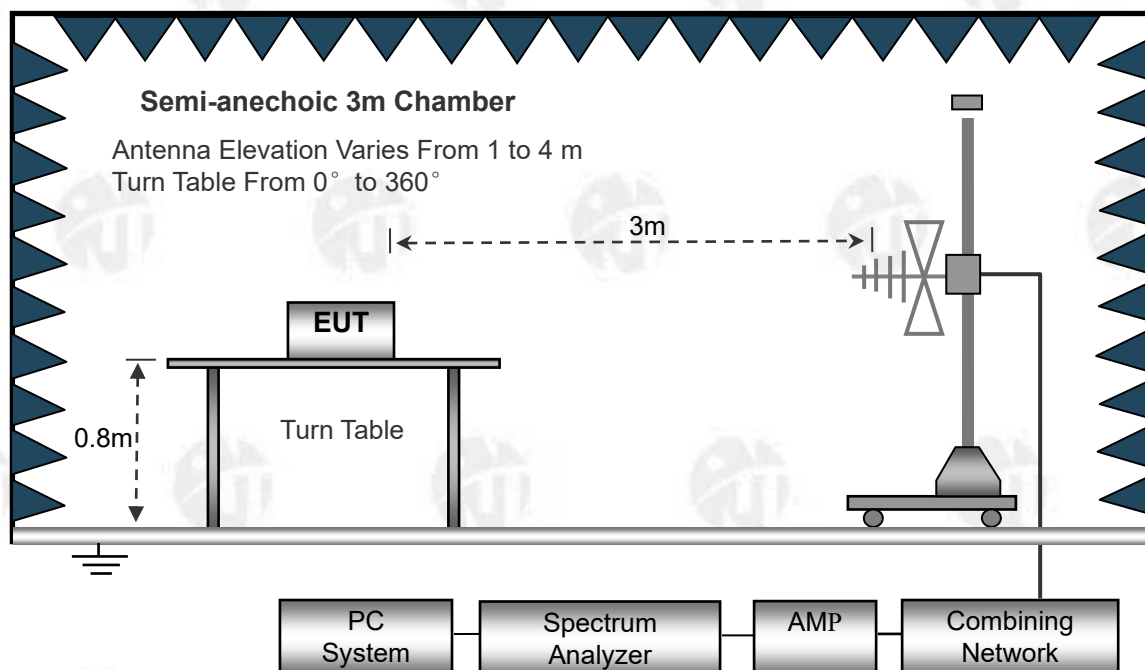
3.2.Test Setup

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

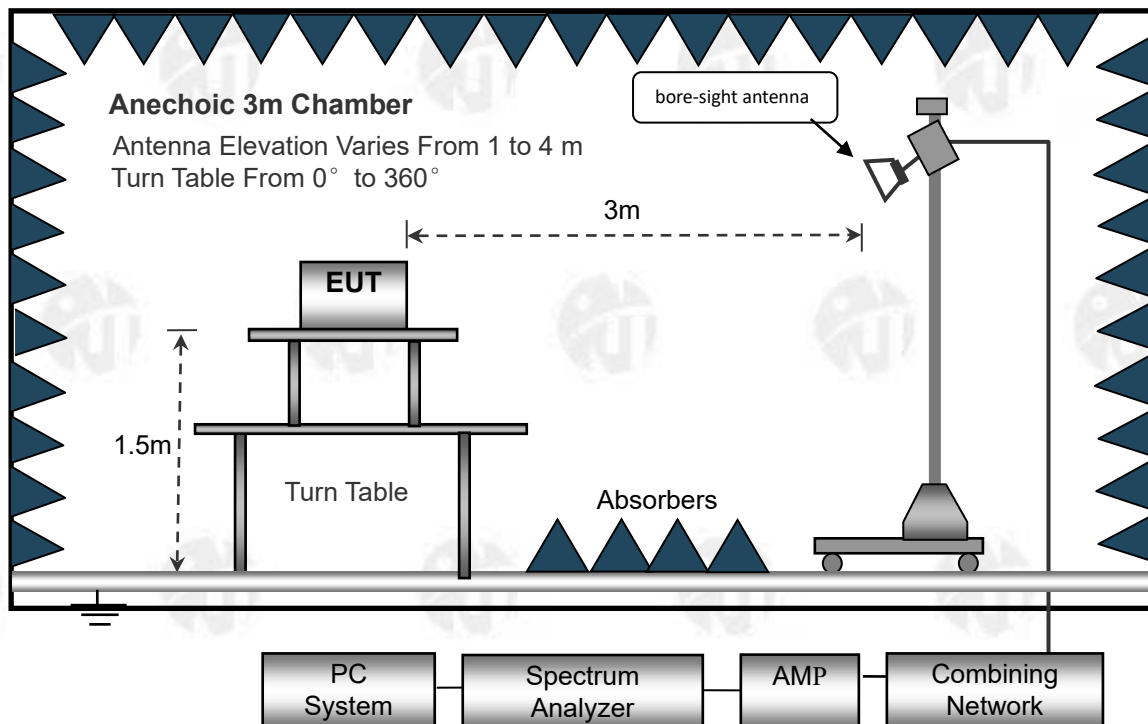
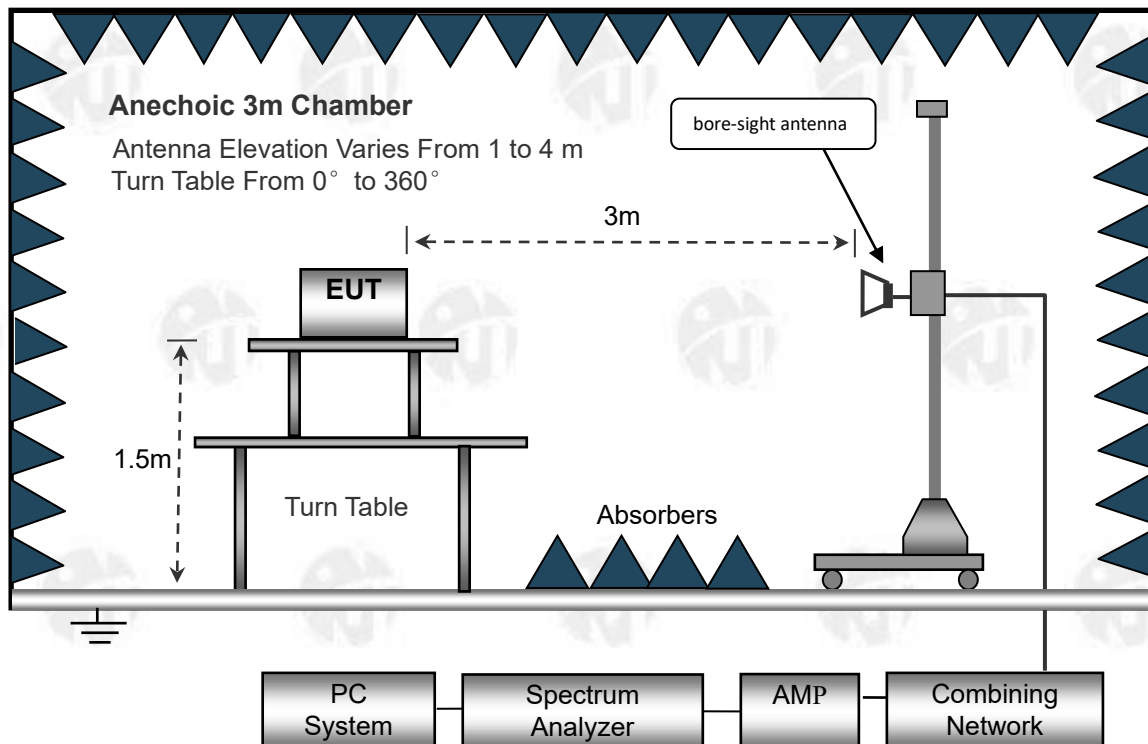
The test setup for emission measurement below 30MHz.



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 :	DC 12V from Adapter Input 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	!	221.4171	49.14	-7.17	41.97	46.00	-4.03	QP
2	!	295.6648	45.73	-3.56	42.17	46.00	-3.83	QP
3	!	374.6225	44.57	-2.20	42.37	46.00	-3.63	QP
4	!	442.5176	43.13	-1.48	41.65	46.00	-4.35	QP
5	*	668.1422	37.66	5.07	42.73	46.00	-3.27	QP
6	!	824.5968	33.33	8.06	41.39	46.00	-4.61	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 :	DC 12V from Adapter Input 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	!	144.0818	44.56	-4.93	39.63	43.50	-3.87	QP
2	!	221.3920	49.95	-7.17	42.78	46.00	-3.22	QP
3	!	374.6225	44.80	-2.20	42.60	46.00	-3.40	QP
4	!	450.3446	44.06	-1.42	42.64	46.00	-3.36	QP
5	!	601.4265	37.47	3.86	41.33	46.00	-4.67	QP
6	*	782.3452	35.45	7.61	43.06	46.00	-2.94	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 (MHz)	Meter Reading (dBuV)	Pre-ampli fier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel:2412MHz									
V	4824.00	52.96	34.12	5.03	32.39	56.26	74	-17.74	Pk
V	4824.00	40.41	34.12	5.03	32.39	43.71	54	-10.29	AV
V	7236.00	49.62	32.54	6.29	35.86	59.23	74	-14.77	Pk
V	7236.00	35.17	32.54	6.29	35.86	44.78	54	-9.22	AV
V	9648.00	47.38	32.98	7.55	38.4	60.35	74	-13.65	Pk
V	9648.00	33.32	32.98	7.55	38.4	46.29	54	-7.71	AV
V	12060.00	44.09	32.09	8.93	39	59.93	74	-14.07	Pk
V	12060.00	28.66	32.09	8.93	39	44.50	54	-9.50	AV
H	4824.00	50.15	34.12	5.03	32.39	53.45	74	-20.55	Pk
H	4824.00	39.49	34.12	5.03	32.39	42.79	54	-11.21	AV
H	7236.00	47.51	32.54	6.29	35.86	57.12	74	-16.88	Pk
H	7236.00	33.62	32.54	6.29	35.86	43.23	54	-10.77	AV
H	9648.00	48.47	32.98	7.55	38.4	61.44	74	-12.56	Pk
H	9648.00	29.67	32.98	7.55	38.4	42.64	54	-11.36	AV
H	12060.00	39.77	32.09	8.93	39	55.61	74	-18.39	Pk
H	12060.00	25.19	32.09	8.93	39	41.03	54	-12.97	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	4874.00	49.41	34.07	5.09	32.59	53.02	74	-20.98	Pk
V	4874.00	38.54	34.07	5.09	32.59	42.15	54	-11.85	AV
V	7311.00	44.98	32.63	6.34	35.96	54.65	74	-19.35	Pk
V	7311.00	36.93	32.63	6.34	35.96	46.60	54	-7.40	AV
V	9748.00	42.79	32.92	7.59	38.4	55.86	74	-18.14	Pk
V	9748.00	31.68	32.92	7.59	38.4	44.75	54	-9.25	AV
V	12815.00	40.67	31.96	8.88	39.04	56.63	74	-17.37	Pk
V	12815.00	29.16	31.96	8.88	39.04	45.12	54	-8.88	AV
H	4874.00	49.32	34.07	5.09	32.59	52.93	74	-21.07	Pk
H	4874.00	39.02	34.07	5.09	32.59	42.63	54	-11.37	AV
H	7311.00	46.38	32.63	6.34	35.96	56.05	74	-17.95	Pk
H	7311.00	34.04	32.63	6.34	35.96	43.71	54	-10.29	AV
H	9748.00	42.21	32.92	7.59	38.4	55.28	74	-18.72	Pk
H	9748.00	29.56	32.92	7.59	38.4	42.63	54	-11.37	AV
H	12815.00	40.63	31.96	8.88	39.04	56.59	74	-17.41	Pk
H	12815.00	30.77	31.96	8.88	39.04	46.73	54	-7.27	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	4924.00	48.81	34.02	5.15	32.8	52.74	74	-21.26	Pk
V	4924.00	35.59	34.02	5.15	32.8	39.52	54	-14.48	AV
V	7386.00	44.31	32.71	6.4	36.05	54.05	74	-19.95	Pk
V	7386.00	35.54	32.71	6.4	36.05	45.28	54	-8.72	AV
V	9848.00	41.70	32.86	7.62	38.4	54.86	74	-19.14	Pk
V	9848.00	30.21	32.86	7.62	38.4	43.37	54	-10.63	AV
V	12310.00	37.99	31.82	8.84	39.08	54.09	74	-19.91	Pk
V	12310.00	27.57	31.82	8.84	39.08	43.67	54	-10.33	AV
H	4924.00	48.51	34.02	5.15	32.8	52.44	74	-21.56	Pk
H	4924.00	38.95	34.02	5.15	32.8	42.88	54	-11.12	AV
H	7386.00	44.41	32.71	6.4	36.05	54.15	74	-19.85	Pk
H	7386.00	31.43	32.71	6.4	36.05	41.17	54	-12.83	AV
H	9848.00	40.87	32.86	7.62	38.4	54.03	74	-19.97	Pk
H	9848.00	27.27	32.86	7.62	38.4	40.43	54	-13.57	AV
H	12310.00	41.42	31.82	8.84	39.08	57.52	74	-16.48	Pk
H	12310.00	30.22	31.82	8.84	39.08	46.32	54	-7.68	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	57.35	35.17	3.48	27.49	53.15	74	-20.85	PK
	H	2390	50.99	35.17	3.48	27.49	46.79	54	-7.21	AV
	H	2400	61.01	35.16	3.49	27.52	56.86	74	-17.14	PK
	H	2400	49.80	35.16	3.49	27.52	45.65	54	-8.35	AV
	V	2390	58.52	35.17	3.48	27.49	54.32	74	-19.68	PK
	V	2390	50.40	35.17	3.48	27.49	46.20	54	-7.80	AV
	V	2400	60.83	35.16	3.49	27.52	56.68	74	-17.32	PK
	V	2400	50.65	35.16	3.49	27.52	46.50	54	-7.50	AV
	High Channel: 2462MHz									
	H	2483.5	59.81	35.11	3.56	27.75	56.01	74	-17.99	PK
	H	2483.5	50.26	35.11	3.56	27.75	46.46	54	-7.54	AV
	H	2500	59.91	35.1	3.57	27.8	56.18	74	-17.82	PK
	H	2500	51.15	35.1	3.57	27.8	47.42	54	-6.58	AV
	V	2483.5	59.63	35.11	3.56	27.75	55.83	74	-18.17	PK
	V	2483.5	50.57	35.11	3.56	27.75	46.77	54	-7.23	AV
	V	2500	60.60	35.1	3.57	27.8	56.87	74	-17.13	PK
	V	2500	50.30	35.1	3.57	27.8	46.57	54	-7.43	AV
802.11g	Low Channel: 2412MHz									
	H	2390	59.54	35.17	3.48	27.49	55.34	74	-18.66	PK
	H	2390	50.64	35.17	3.48	27.49	46.44	54	-7.56	AV
	H	2400	59.33	35.16	3.49	27.52	55.18	74	-18.82	PK
	H	2400	51.11	35.16	3.49	27.52	46.96	54	-7.04	AV
	V	2390	59.45	35.17	3.48	27.49	55.25	74	-18.75	PK
	V	2390	49.69	35.17	3.48	27.49	45.49	54	-8.51	AV
	V	2400	61.13	35.16	3.49	27.52	56.98	74	-17.02	PK
	V	2400	48.54	35.16	3.49	27.52	44.39	54	-9.61	AV
	High Channel: 2462MHz									
	H	2483.5	59.10	35.11	3.56	27.75	55.30	74	-18.70	PK
	H	2483.5	50.97	35.11	3.56	27.75	47.17	54	-6.83	AV
	H	2500	59.24	35.1	3.57	27.8	55.51	74	-18.49	PK
	H	2500	49.90	35.1	3.57	27.8	46.17	54	-7.83	AV
	V	2483.5	60.16	35.11	3.56	27.75	56.36	74	-17.64	PK
	V	2483.5	50.39	35.11	3.56	27.75	46.59	54	-7.41	AV
	V	2500	59.13	35.1	3.57	27.8	55.40	74	-18.60	PK
	V	2500	49.83	35.1	3.57	27.8	46.10	54	-7.90	AV
802.11 n20	Low Channel: 2412MHz									
	H	2390	58.64	35.17	3.48	27.49	54.44	74	-19.56	PK
	H	2390	51.50	35.17	3.48	27.49	47.30	54	-6.70	AV
	H	2400	60.21	35.16	3.49	27.52	56.06	74	-17.94	PK
	H	2400	50.45	35.16	3.49	27.52	46.30	54	-7.70	AV
	V	2390	58.76	35.17	3.48	27.49	54.56	74	-19.44	PK
	V	2390	49.98	35.17	3.48	27.49	45.78	54	-8.22	AV
	V	2400	60.21	35.16	3.49	27.52	56.06	74	-17.94	PK
	V	2400	50.35	35.16	3.49	27.52	46.20	54	-7.80	AV
	High Channel: 2462MHz									
	H	2483.5	59.22	35.11	3.56	27.75	55.42	74	-18.58	PK
	H	2483.5	50.01	35.11	3.56	27.75	46.21	54	-7.79	AV
	H	2500	60.57	35.1	3.57	27.8	56.84	74	-17.16	PK

	H	2500	49.55	35.1	3.57	27.8	45.82	54	-8.18	AV
	V	2483.5	59.31	35.11	3.56	27.75	55.51	74	-18.49	PK
	V	2483.5	51.02	35.11	3.56	27.75	47.22	54	-6.78	AV
	V	2500	57.69	35.1	3.57	27.8	53.96	74	-20.04	PK
	V	2500	49.50	35.1	3.57	27.8	45.77	54	-8.23	AV
802.11 n40	Low Channel 2422MHz									
	H	2390.00	59.13	35.17	3.48	27.49	54.93	74	-19.07	PK
	H	2390.00	49.82	35.17	3.48	27.49	45.62	54	-8.38	AV
	H	2400.00	60.22	35.16	3.49	27.52	56.07	74	-17.93	PK
	H	2400.00	49.18	35.16	3.49	27.52	45.03	54	-8.97	AV
	V	2390.00	57.78	35.17	3.48	27.49	53.58	74	-20.42	PK
	V	2390.00	50.47	35.17	3.48	27.49	46.27	54	-7.73	AV
	V	2400.00	61.77	35.16	3.49	27.52	57.62	74	-16.38	PK
	V	2400.00	49.22	35.16	3.49	27.52	45.07	54	-8.93	AV
	High Channel 2452MHz									
	H	2483.50	59.83	35.11	3.56	27.75	56.03	74	-17.97	PK
	H	2483.50	50.79	35.11	3.56	27.75	46.99	54	-7.01	AV
	H	2500.00	60.93	35.1	3.57	27.8	57.20	74	-16.80	PK
	H	2500.00	51.07	35.1	3.57	27.8	47.34	54	-6.66	AV
	V	2483.50	58.46	35.11	3.56	27.75	54.66	74	-19.34	PK
802.11 ax20	V	2483.50	52.43	35.11	3.56	27.75	48.63	54	-5.37	AV
	V	2500.00	59.99	35.1	3.57	27.8	56.26	74	-17.74	PK
	V	2500.00	51.34	35.1	3.57	27.8	47.61	54	-6.39	AV
	Low Channel 2412MHz									
	H	2390.00	60.04	35.17	3.48	27.49	55.84	74	-18.16	PK
	H	2390.00	50.91	35.17	3.48	27.49	46.71	54	-7.29	AV
	H	2400.00	59.22	35.16	3.49	27.52	55.07	74	-18.93	PK
	H	2400.00	51.76	35.16	3.49	27.52	47.61	54	-6.39	AV
	V	2390.00	57.57	35.17	3.48	27.49	53.37	74	-20.63	PK
	V	2390.00	52.24	35.17	3.48	27.49	48.04	54	-5.96	AV
	V	2400.00	59.62	35.16	3.49	27.52	55.47	74	-18.53	PK
	V	2400.00	50.26	35.16	3.49	27.52	46.11	54	-7.89	AV
	High Channel 2462MHz									
	H	2483.50	58.86	35.11	3.56	27.75	55.06	74	-18.94	PK
	H	2483.50	48.25	35.11	3.56	27.75	44.45	54	-9.55	AV
802.11 ax40	H	2500.00	59.88	35.1	3.57	27.8	56.15	74	-17.85	PK
	H	2500.00	50.54	35.1	3.57	27.8	46.81	54	-7.19	AV
	V	2483.50	57.63	35.11	3.56	27.75	53.83	74	-20.17	PK
	V	2483.50	49.70	35.11	3.56	27.75	45.90	54	-8.10	AV
	V	2500.00	58.08	35.1	3.57	27.8	54.35	74	-19.65	PK
	V	2500.00	51.69	35.1	3.57	27.8	47.96	54	-6.04	AV
	Low Channel 2422MHz									
	H	2390.00	58.46	35.17	3.48	27.49	54.26	74	-19.74	PK
	H	2390.00	49.06	35.17	3.48	27.49	44.86	54	-9.14	AV
	H	2400.00	61.26	35.16	3.49	27.52	57.11	74	-16.89	PK
	H	2400.00	51.79	35.16	3.49	27.52	47.64	54	-6.36	AV
	V	2390.00	59.71	35.17	3.48	27.49	55.51	74	-18.49	PK
	V	2390.00	51.84	35.17	3.48	27.49	47.64	54	-6.36	AV
	V	2400.00	59.90	35.16	3.49	27.52	55.75	74	-18.25	PK
	V	2400.00	50.36	35.16	3.49	27.52	46.21	54	-7.79	AV
	High Channel 2452MHz									
	H	2483.50	58.19	35.11	3.56	27.75	54.39	74	-19.61	PK
	H	2483.50	48.35	35.11	3.56	27.75	44.55	54	-9.45	AV

	H	2500.00	59.27	35.1	3.57	27.8	55.54	74	-18.46	PK
	H	2500.00	50.97	35.1	3.57	27.8	47.24	54	-6.76	AV
	V	2483.50	58.82	35.11	3.56	27.75	55.02	74	-18.98	PK
	V	2483.50	51.94	35.11	3.56	27.75	48.14	54	-5.86	AV
	V	2500.00	59.02	35.1	3.57	27.8	55.29	74	-18.71	PK
	V	2500.00	51.52	35.1	3.57	27.8	47.79	54	-6.21	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
 Test Result: PASS

4.2.Test Setup



4.3.Test Procedure

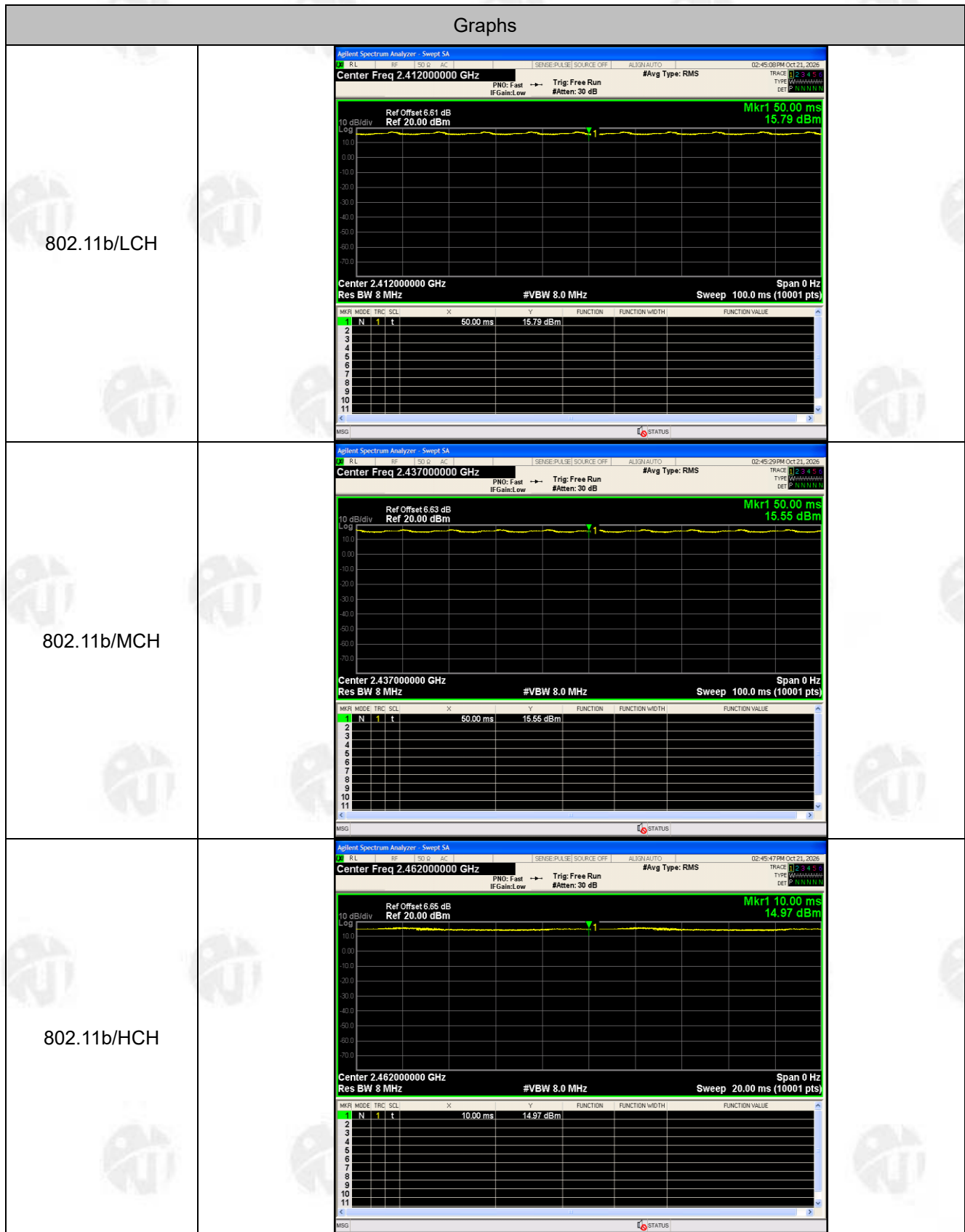
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer:
 - a) Set the center frequency of the instrument to the center frequency of the transmission.
 - b) Set RBW $\geq$ OBW if possible; otherwise, set RBW to the largest 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

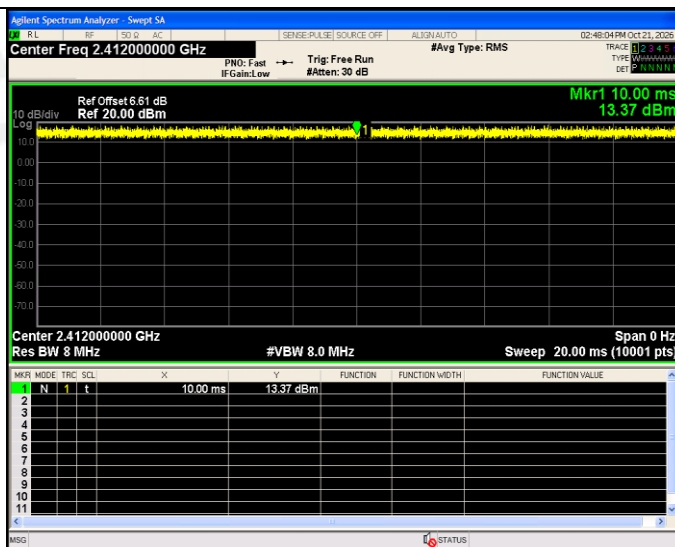
Duty Cycle

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
802.11n(HT40)	LCH	100	0
	MCH	100	0
	HCH	100	0
802.11ax(HE20)	LCH	100	0
	MCH	100	0
	HCH	100	0
802.11ax(HE40)	LCH	100	0
	MCH	100	0
	HCH	100	0

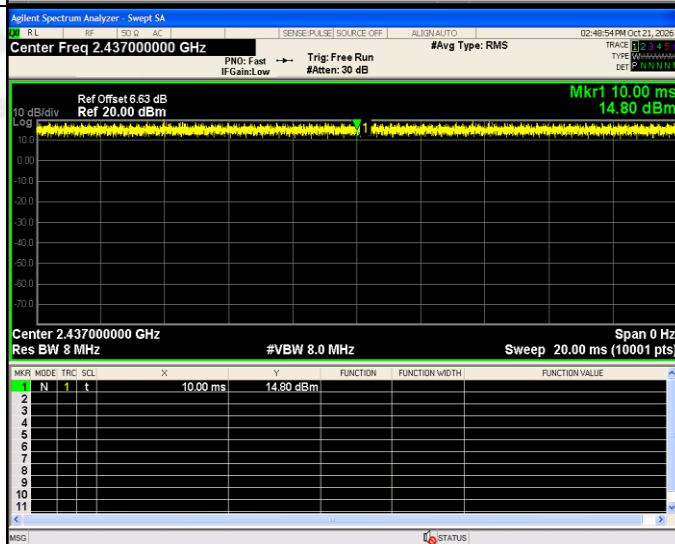
Test Graph:



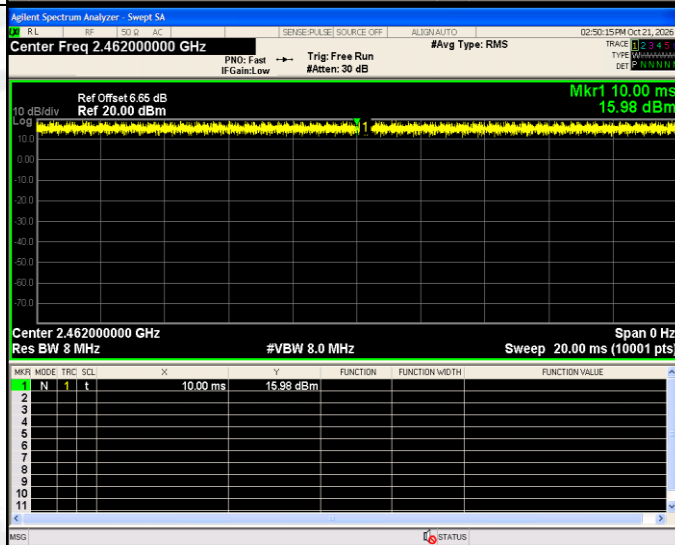
802.11g/LCH

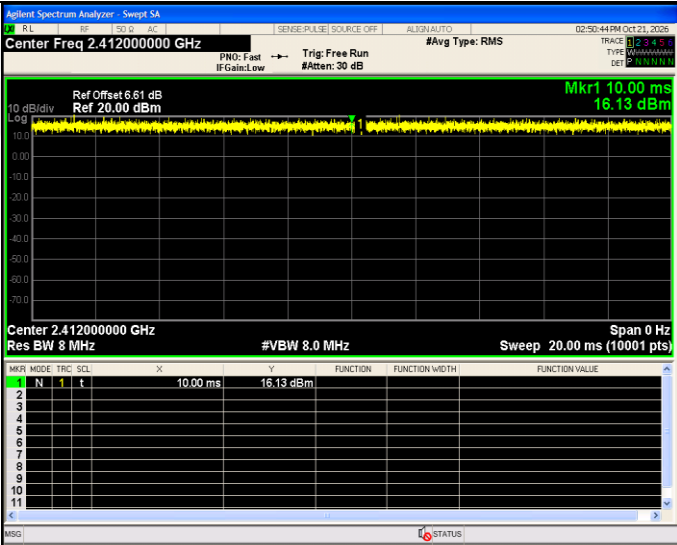
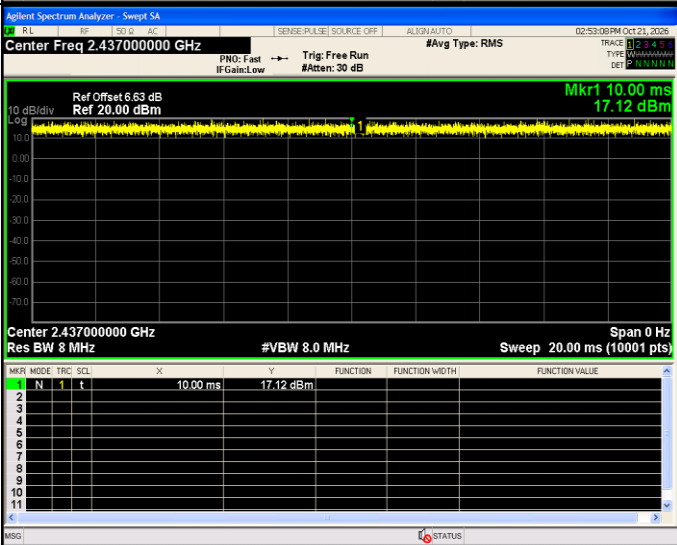
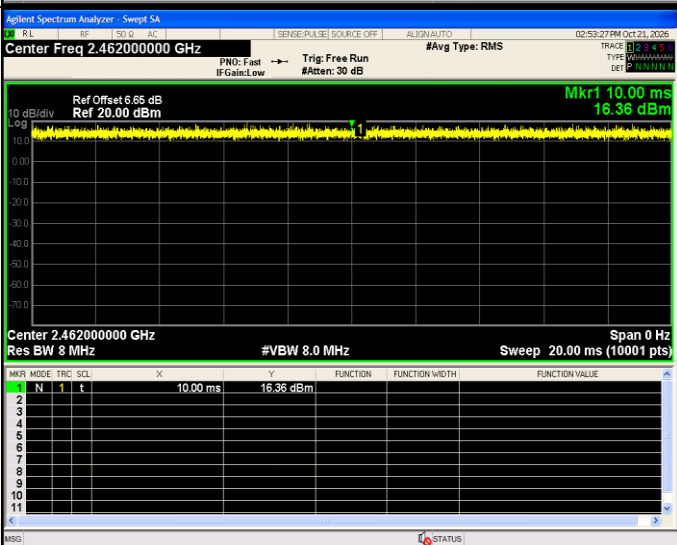


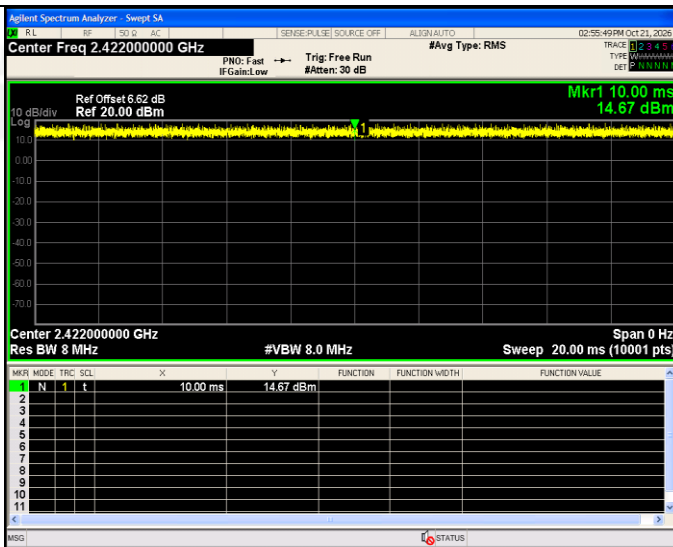
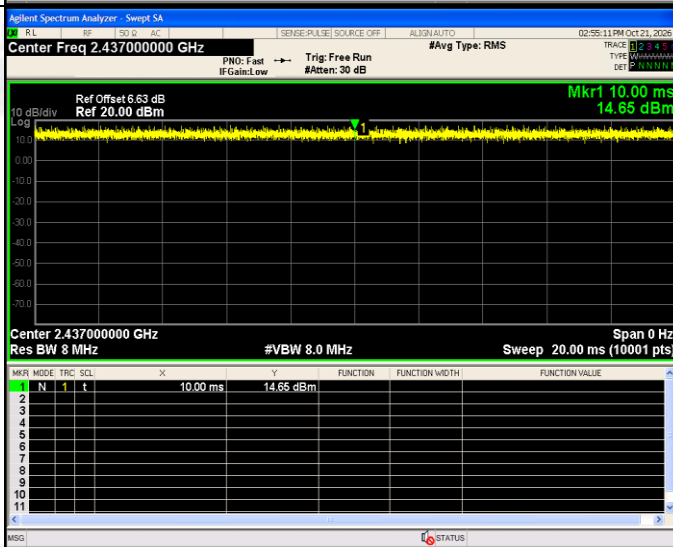
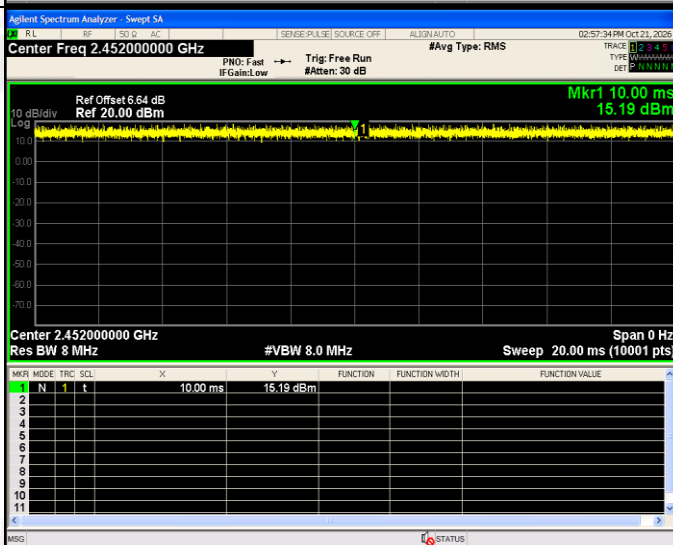
802.11g/MCH

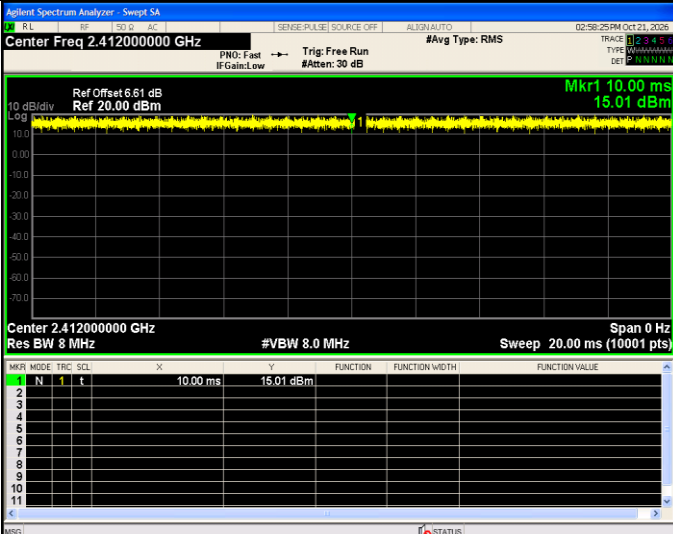
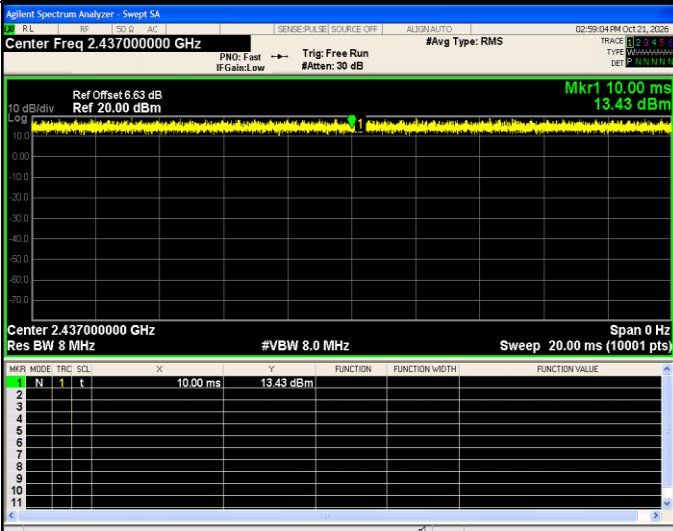
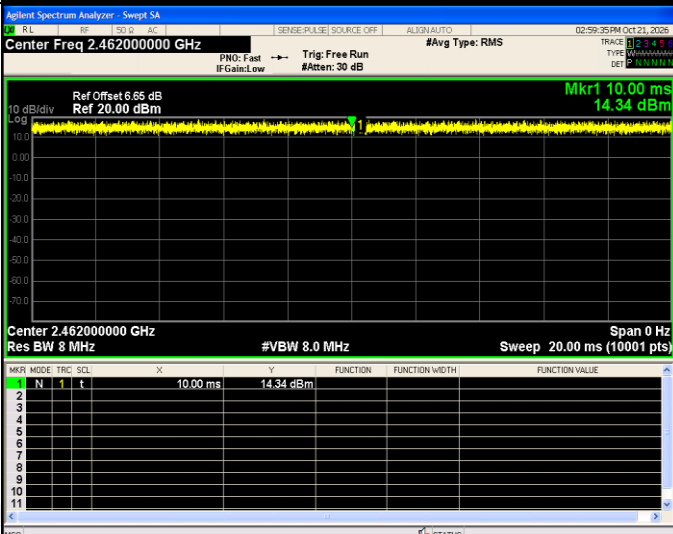


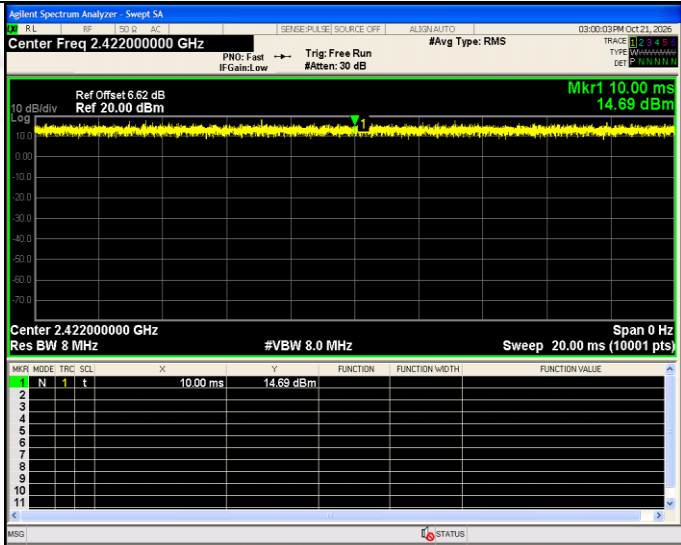
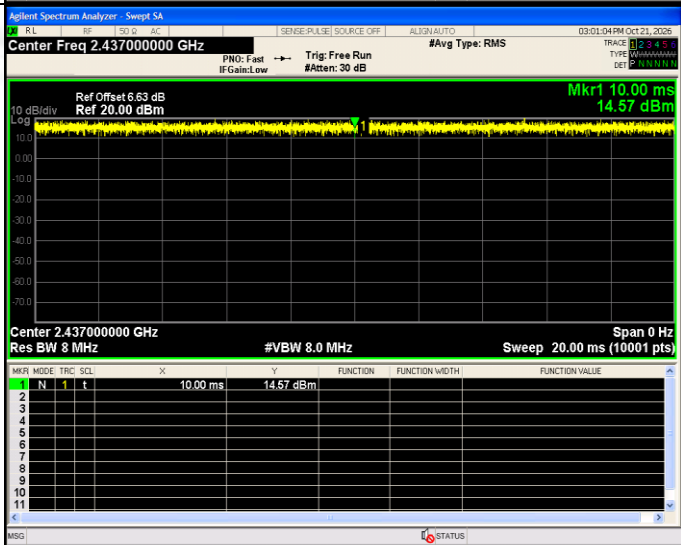
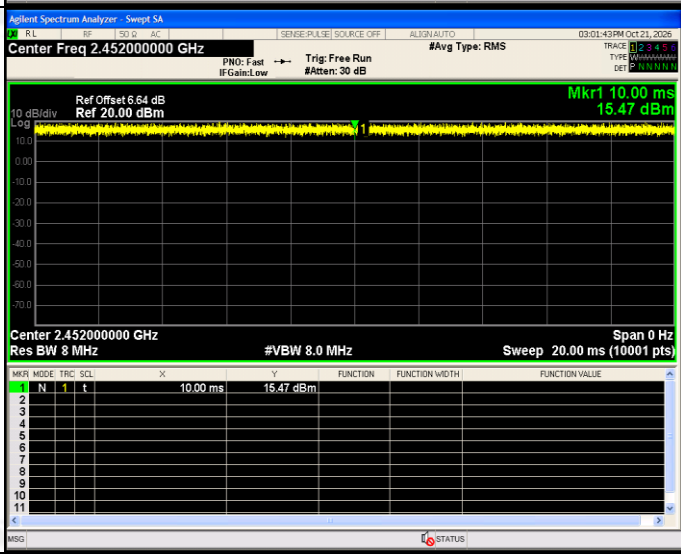
802.11g/HCH



802.11n(HT20)/LCH	 Agilent Spectrum Analyzer - Swept SA Center Freq 2.412000000 GHz Ref Offset 6.61 dB Ref 20.00 dBm Mkr1 10.00 ms 16.13 dBm Center 2.412000000 GHz Res BW 8 MHz #VBW 8.0 MHz Sweep 20.00 ms (10001 pts)
802.11n(HT20)/MCH	 Agilent Spectrum Analyzer - Swept SA Center Freq 2.437000000 GHz Ref Offset 6.63 dB Ref 20.00 dBm Mkr1 10.00 ms 17.12 dBm Center 2.437000000 GHz Res BW 8 MHz #VBW 8.0 MHz Sweep 20.00 ms (10001 pts)
802.11n(HT20)/HCH	 Agilent Spectrum Analyzer - Swept SA Center Freq 2.462000000 GHz Ref Offset 6.65 dB Ref 20.00 dBm Mkr1 10.00 ms 16.36 dBm Center 2.462000000 GHz Res BW 8 MHz #VBW 8.0 MHz Sweep 20.00 ms (10001 pts)

802.11n(HT40)/LCH	 <table><tr><th>MKR</th><th>MODE</th><th>TRC</th><th>SCL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>N</td><td>1</td><td>t</td><td>10.00 ms</td><td>14.67 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>7</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>9</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>11</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	t	10.00 ms	14.67 dBm				2									3									4									5									6									7									8									9									10									11								
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802.11ax(HE40)/LCH	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.422000000 GHz Ref Offset 6.62 dB Ref 20.00 dBm Mkr1 10.00 ms 14.69 dBm Center 2.422000000 GHz Res BW 8 MHz #VBW 8.0 MHz Sweep 20.00 ms Span 0 Hz 10 dB/div LOG 10.00 0.00 -10.00 -20.00 -30.00 -40.00 -50.00 -60.00 -70.00 MKR MODE TRIG: SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE 1 N 1 t 10.00 ms 14.69 dBm 2 3 4 5 6 7 8 9 10 11 MSG STATUS
802.11ax(HE40)/MCH	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.437000000 GHz Ref Offset 6.63 dB Ref 20.00 dBm Mkr1 10.00 ms 14.57 dBm Center 2.437000000 GHz Res BW 8 MHz #VBW 8.0 MHz Sweep 20.00 ms Span 0 Hz 10 dB/div LOG 10.00 0.00 -10.00 -20.00 -30.00 -40.00 -50.00 -60.00 -70.00 MKR MODE TRIG: SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE 1 N 1 t 10.00 ms 14.57 dBm 2 3 4 5 6 7 8 9 10 11 MSG STATUS
802.11ax(HE40)/HCH	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.452000000 GHz Ref Offset 6.64 dB Ref 20.00 dBm Mkr1 10.00 ms 15.47 dBm Center 2.452000000 GHz Res BW 8 MHz #VBW 8.0 MHz Sweep 20.00 ms Span 0 Hz 10 dB/div LOG 10.00 0.00 -10.00 -20.00 -30.00 -40.00 -50.00 -60.00 -70.00 MKR MODE TRIG: SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE 1 N 1 t 10.00 ms 15.47 dBm 2 3 4 5 6 7 8 9 10 11 MSG STATUS

5. Conducted Spurious Emissions

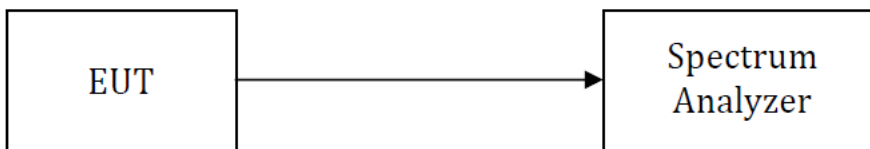
5.1.Limit

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
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



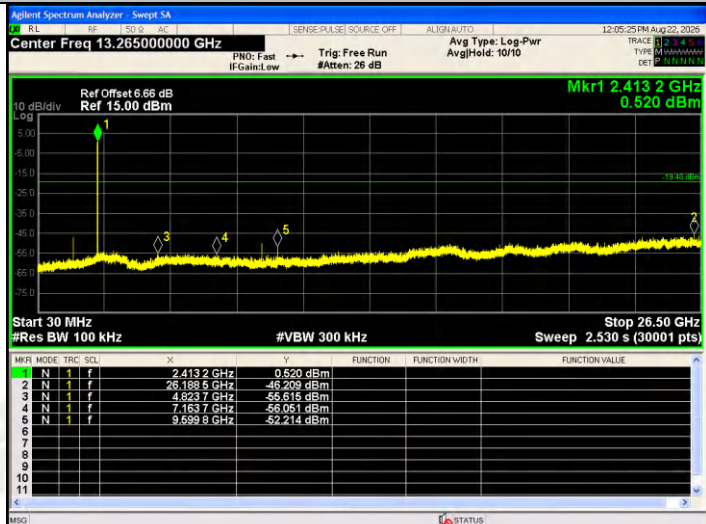
5.3.Test Procedure

- 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.

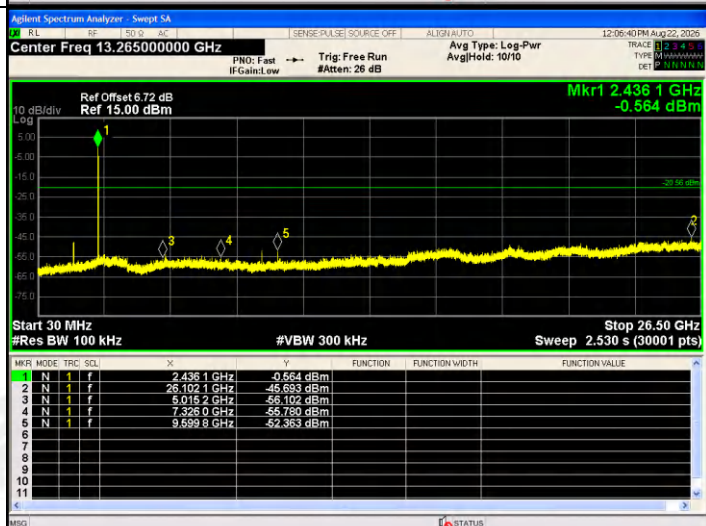
5.4. Test Result

RF Conducted Spurious Emissions Graphs

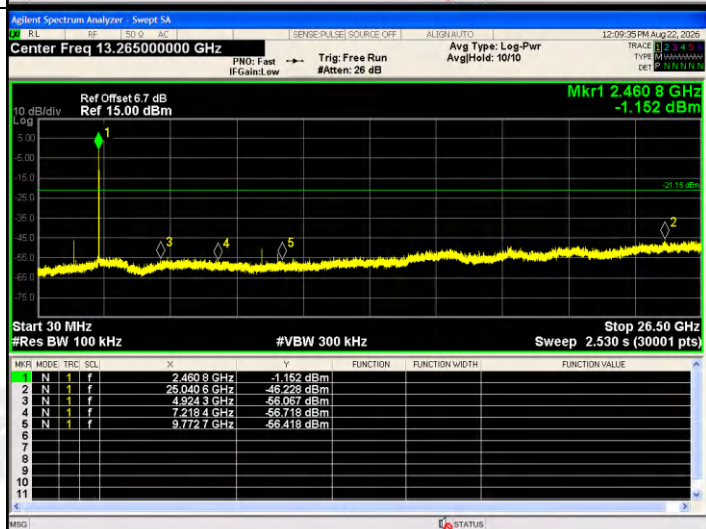
802.11b/LCH



802.11b/MCH

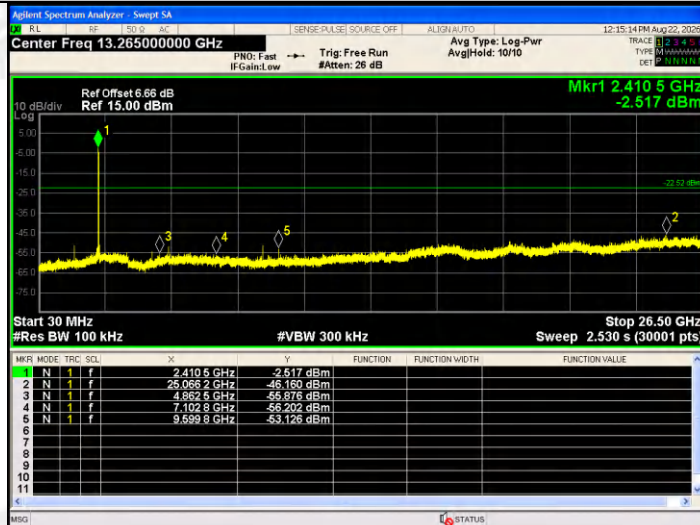


802.11b/HCH

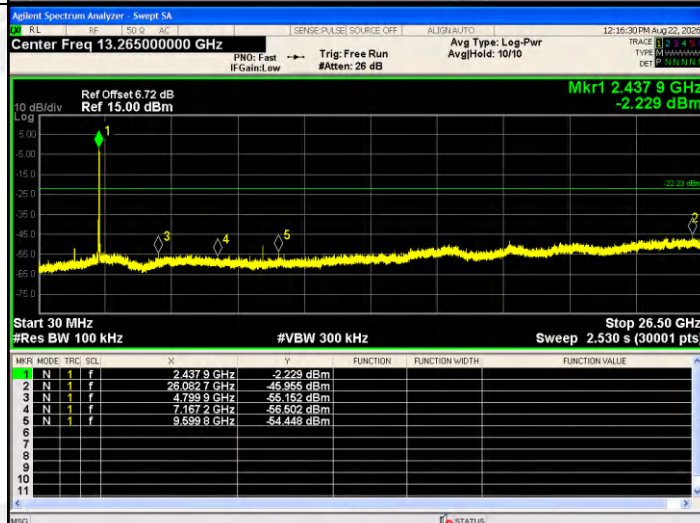


RF Conducted Spurious Emissions Graphs

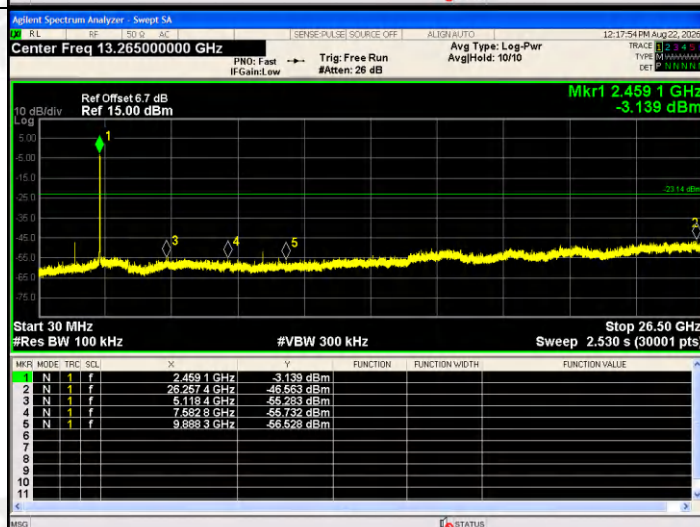
802.11g/LCH



802.11g/MCH

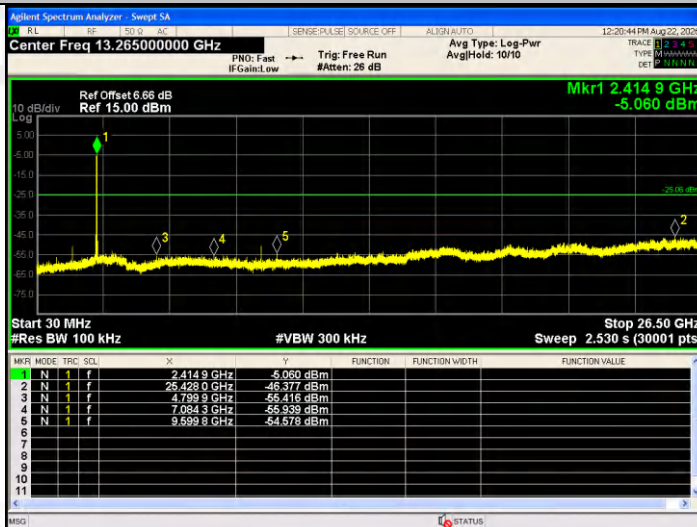


802.11g/HCH

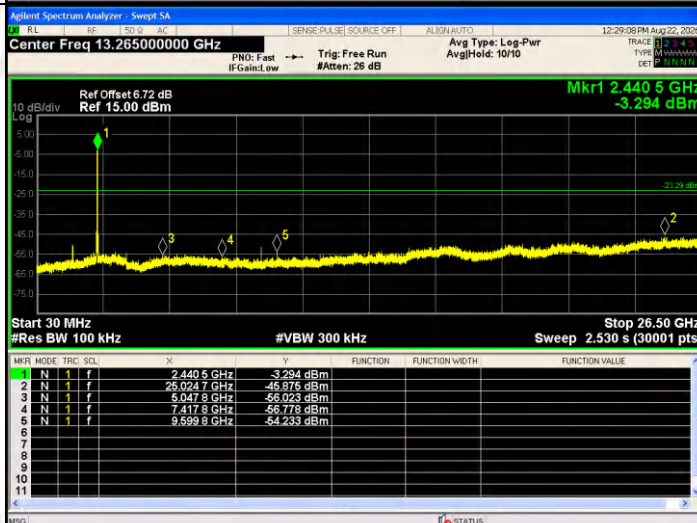


RF Conducted Spurious Emissions Graphs

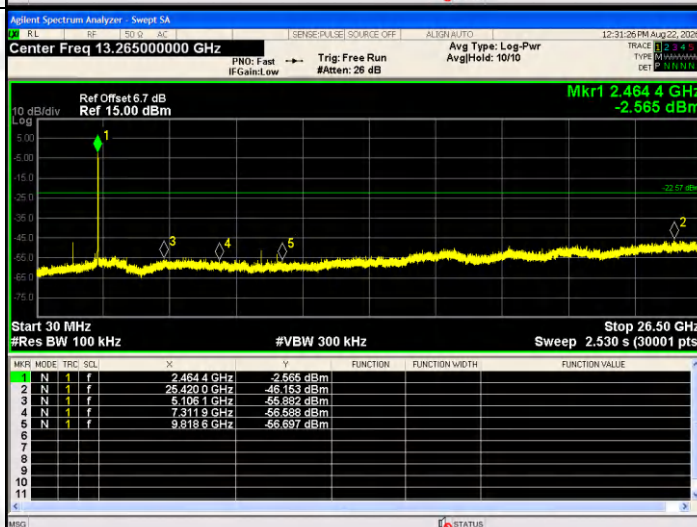
802.11n(HT20)/LCH



802.11n(HT20)/MCH

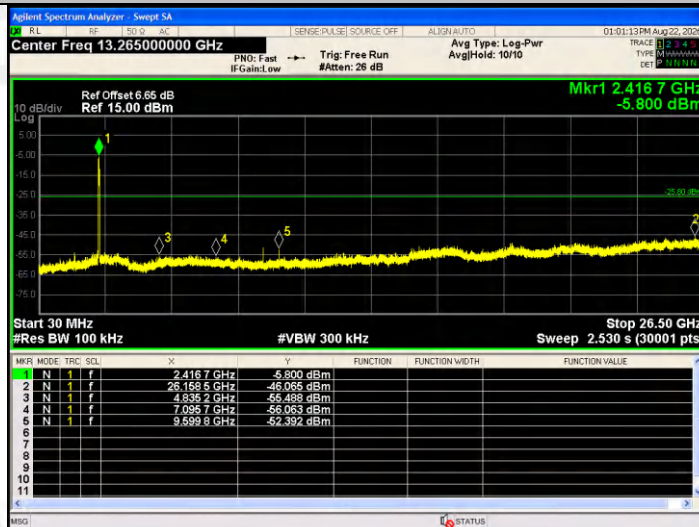


802.11n(HT20)/HCH

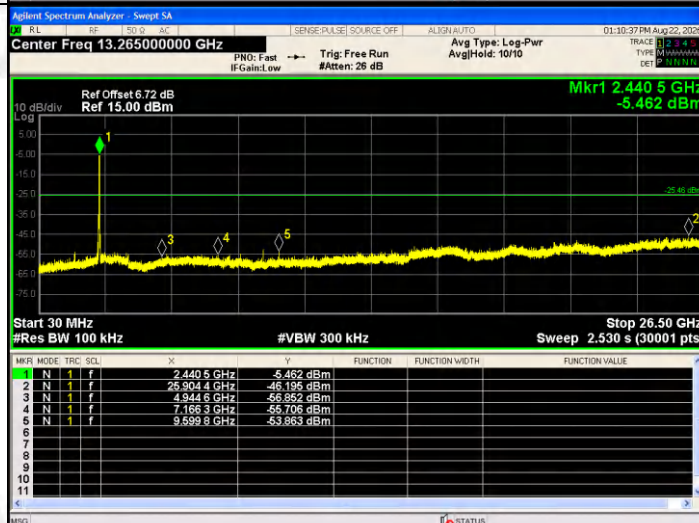


RF Conducted Spurious Emissions Graphs

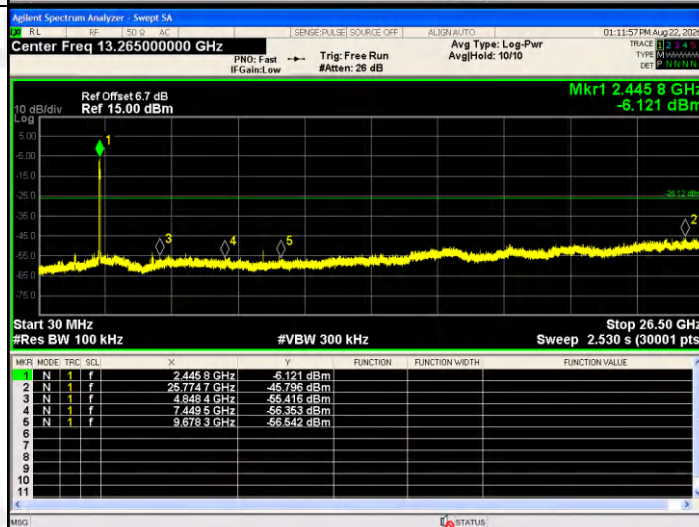
802.11n(HT40)/LCH



802.11n(HT40)/MCH

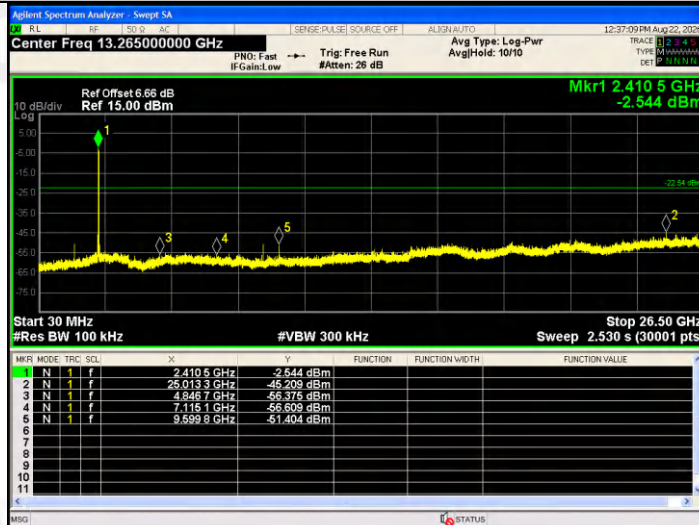


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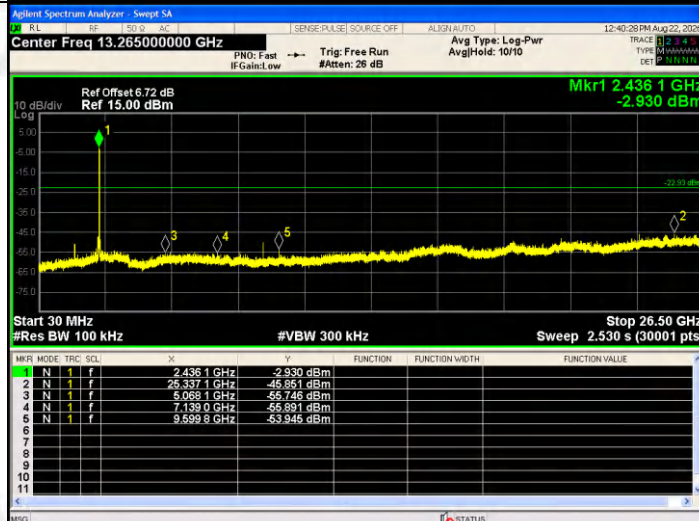


RF Conducted Spurious Emissions Graphs

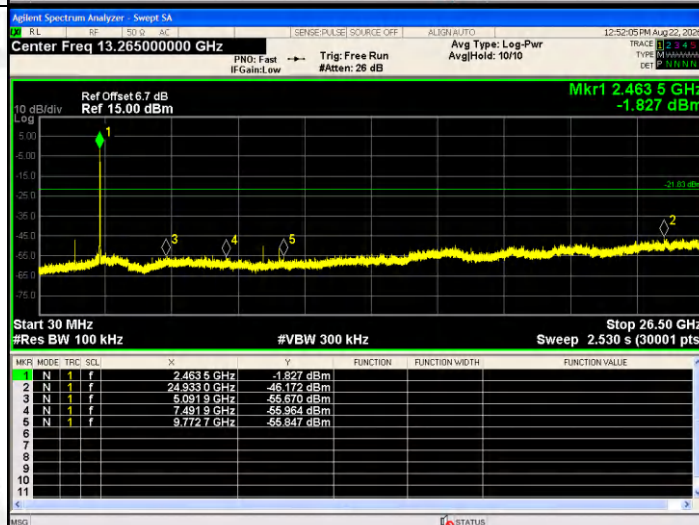
802.11ax(HE20)/LCH



802.11ax(HE20)/MCH

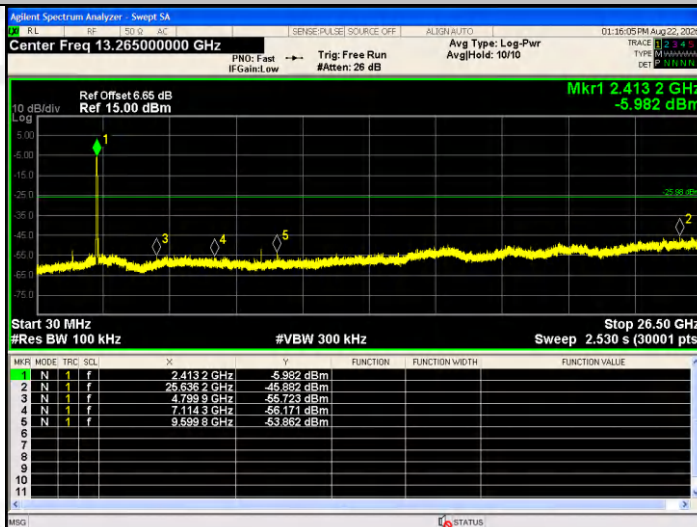


802.11ax(HE20)/HCH

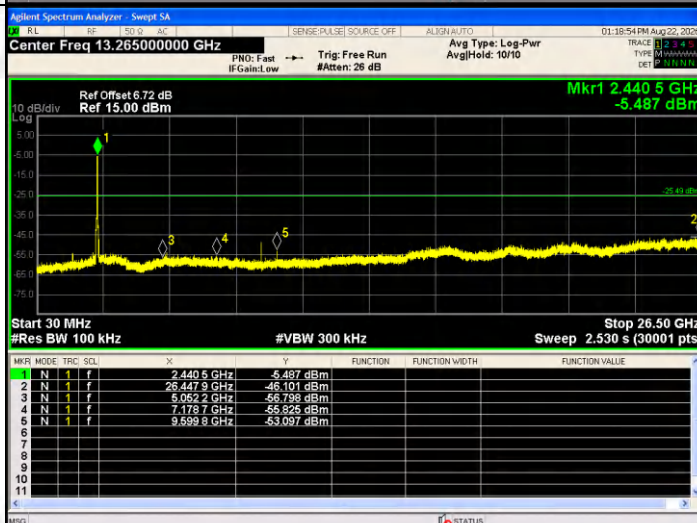


RF Conducted Spurious Emissions Graphs

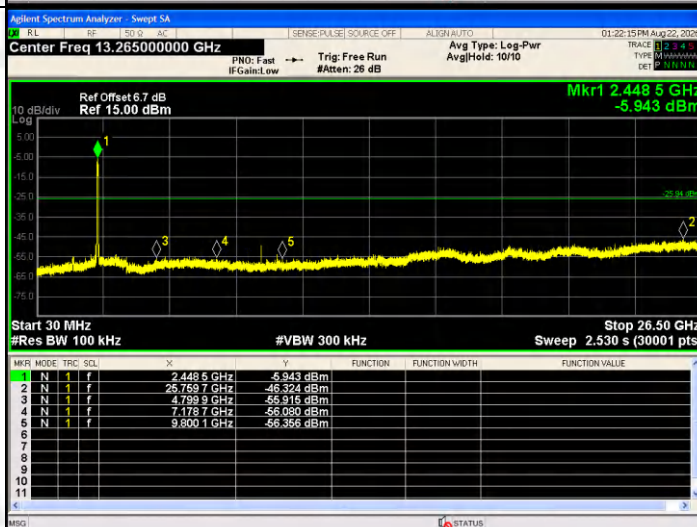
802.11ax(HE40)/LCH



802.11ax(HE40)/MCH



802.11ax(HE40)/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 v05r02 April 2, 2019;

ANSI C63.10-2020+Cor.1-2023

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 $\geq [3 \times \text{RBW}]$.
 - 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.

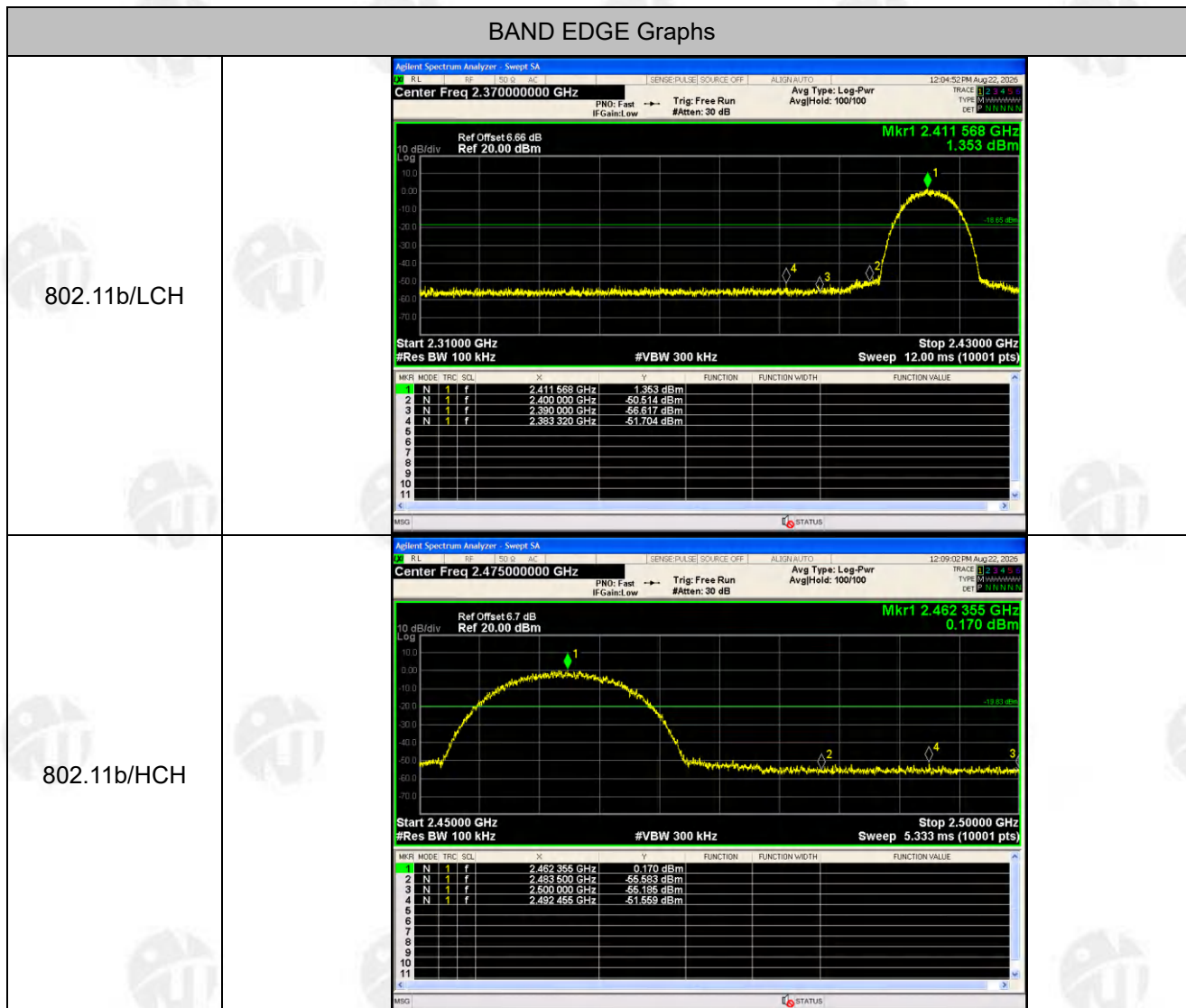
4. Establish an emission level by using the following procedure:

- 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

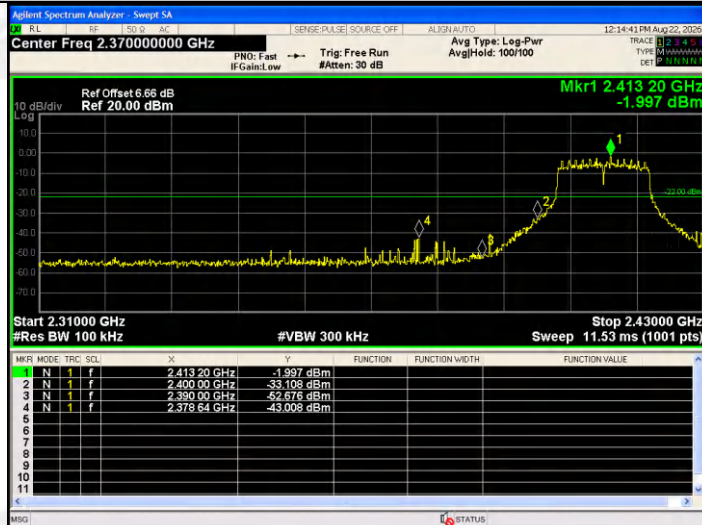
- b) Set the RBW = 100 kHz.
- c) Set the VBW $\geq [3 \times \text{RBW}]$.
- d) Detector = peak.
- e) Sweep time = No faster than coupled (auto) time.
- f) Trace mode = max-hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the maximum amplitude level.

6.4.Test Result

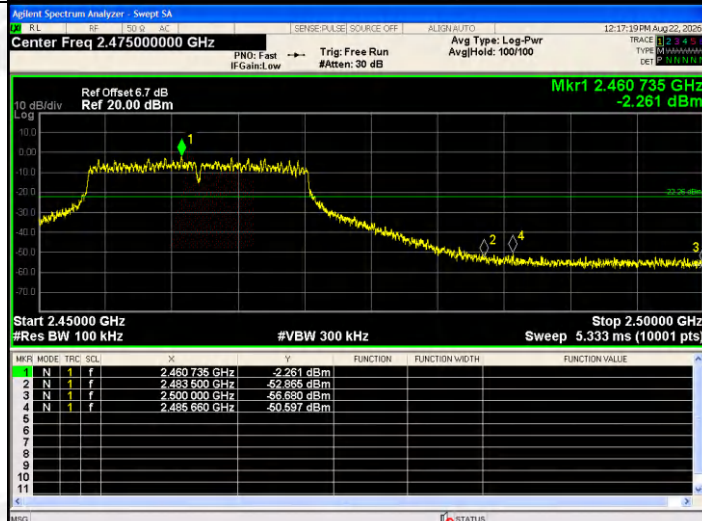


BAND EDGE Graphs

802.11g/LCH

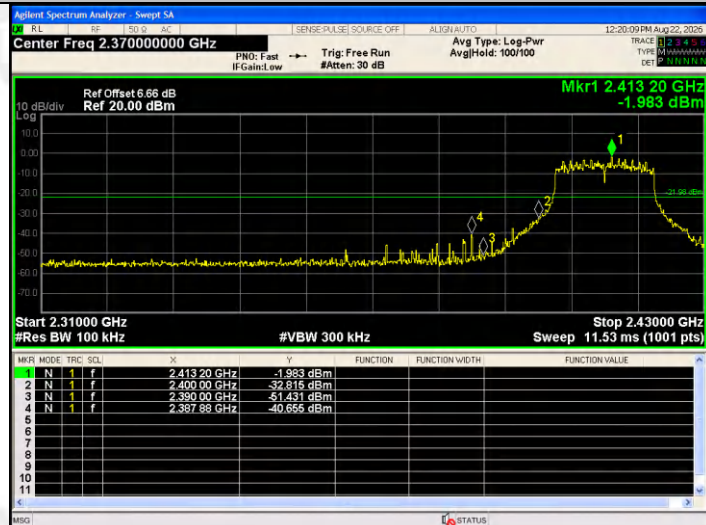


802.11g/HCH

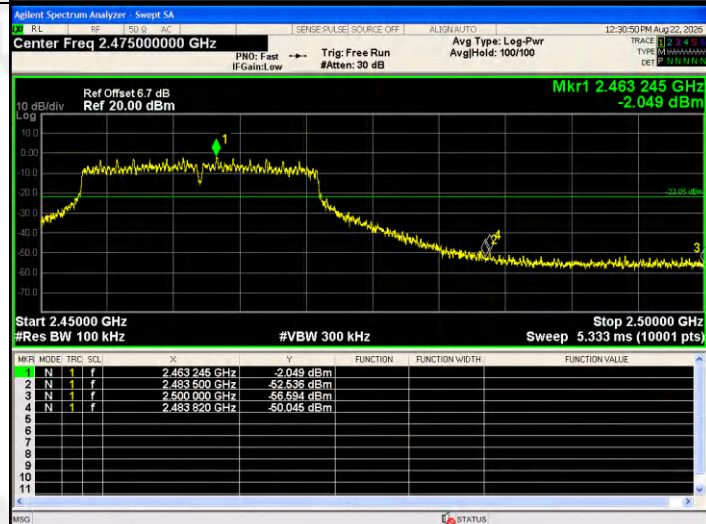


BAND EDGE Graphs

802.11n(HT20)/LCH

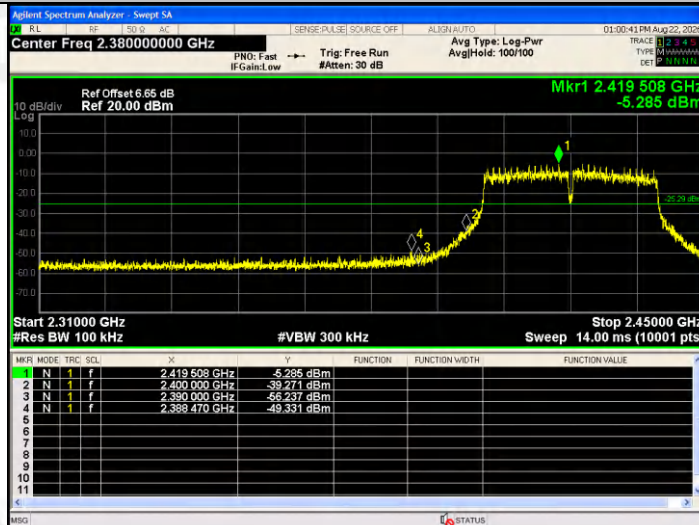


802.11n(HT20)/HCH

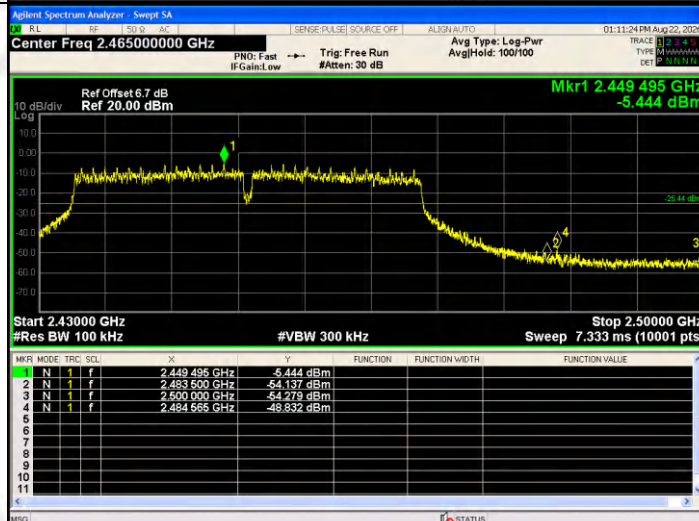


BAND EDGE Graphs

802.11n(HT40)/LCH

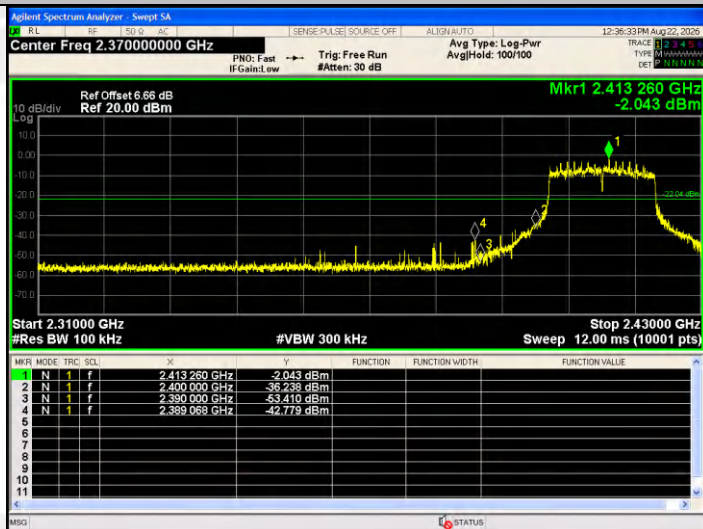


802.11n(HT40)/HCH

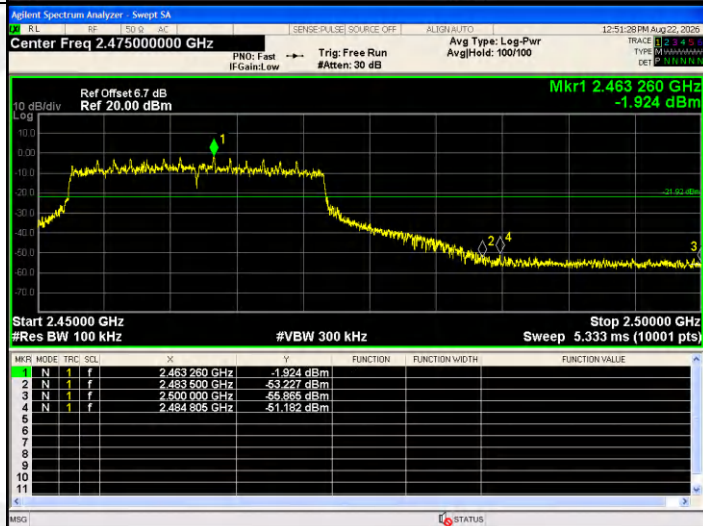


BAND EDGE Graphs

802.11ax(HE20)/LCH

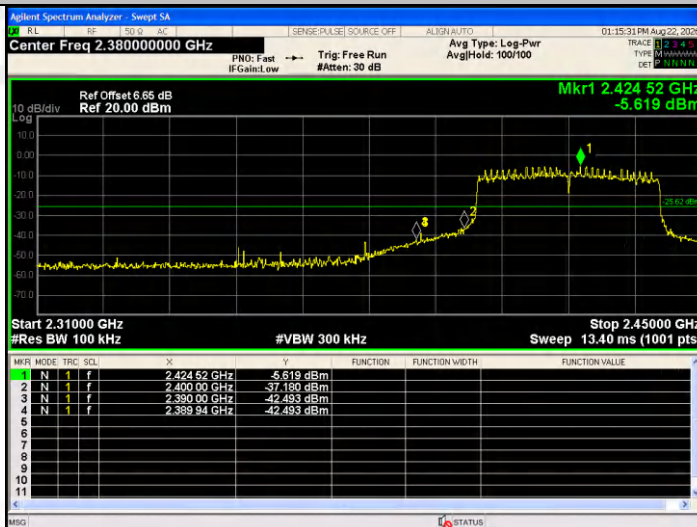


802.11ax(HE20)/HCH

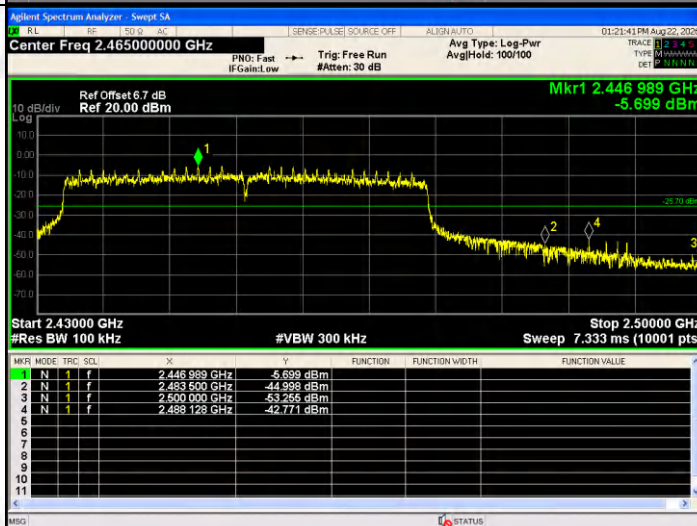


BAND EDGE Graphs

802.11ax(HE40)/LCH



802.11ax(HE40)/HCH



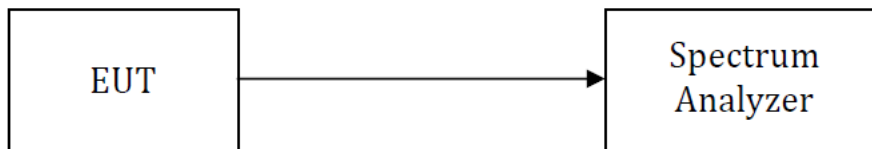
7. -6 dB Bandwidth and 99% Bandwidth Measurement

7.1.Limit

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019; ANSI C63.10-2020+Cor.1-2023

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

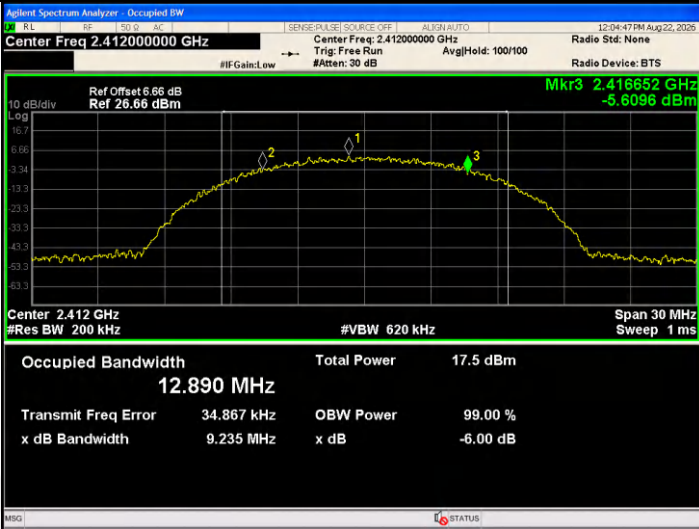
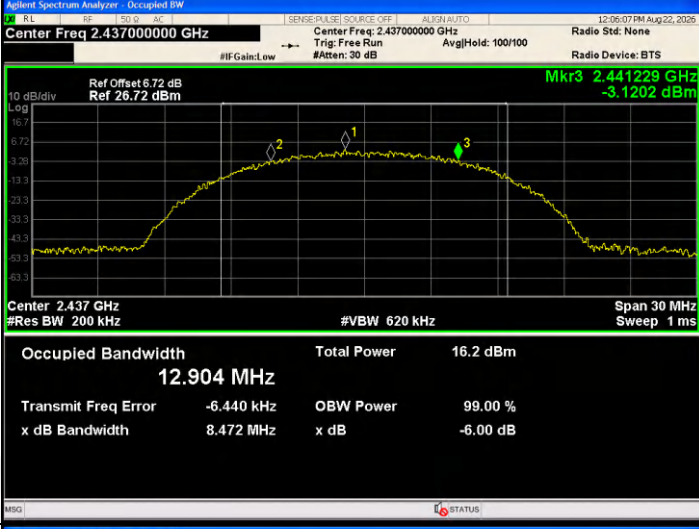
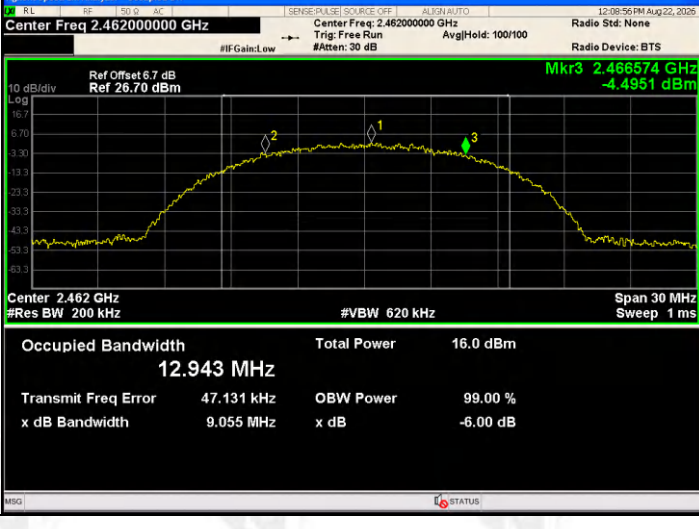
- a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be at least 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

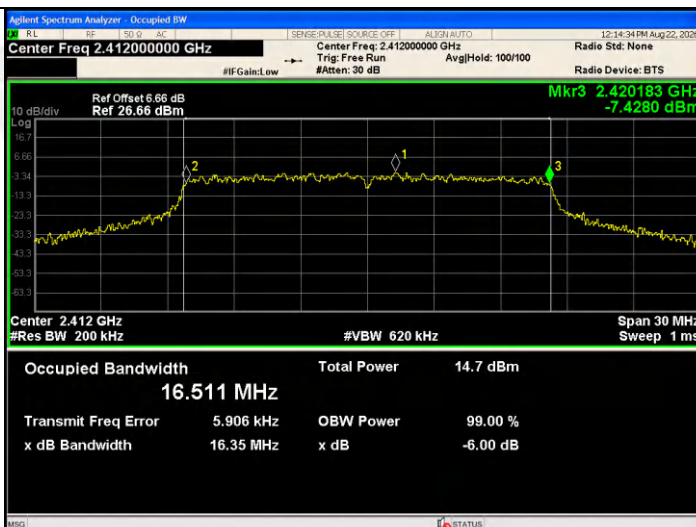
Test Mode	Frequency	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Result
802.11b	LCH	9.235	12.9326	PASS
	MCH	8.472	12.9950	PASS
	HCH	9.055	12.9274	PASS
802.11g	LCH	16.354	16.4932	PASS
	MCH	16.402	16.5046	PASS
	HCH	16.168	16.4783	PASS
802.11n(HT20)	LCH	17.403	17.6957	PASS
	MCH	17.674	17.7145	PASS
	HCH	17.59	17.7257	PASS
802.11n(HT40)	LCH	35.794	36.2288	PASS
	MCH	35.679	36.3116	PASS
	HCH	36.06	36.2431	PASS
802.11ax(HE20)	LCH	18.878	18.9283	PASS
	MCH	18.643	18.9204	PASS
	HCH	19.015	18.9328	PASS
802.11ax(HE40)	LCH	37.489	37.7959	PASS
	MCH	37.827	37.8163	PASS
	HCH	37.418	37.8254	PASS

-6dB

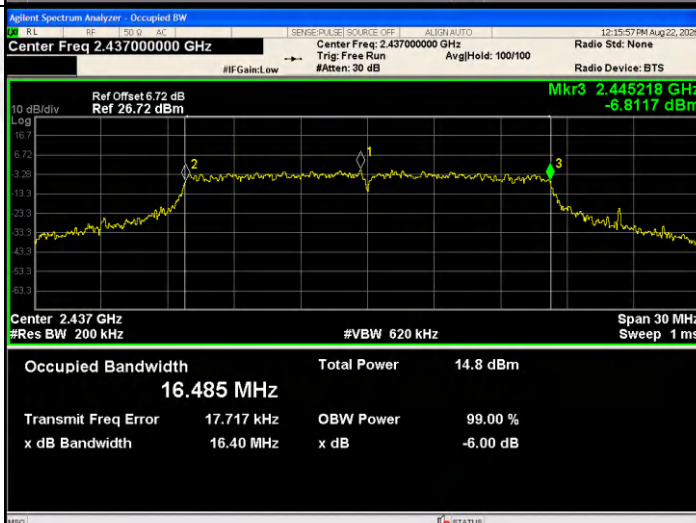
Test Graph:

Graphs	
802.11b /LCH	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.41200000 GHz Center Freq: 2.41200000 GHz Trig: Free Run Avg/Hold: 100/100 Radio Std: None Radio Device: BTS Ref Offset 5.66 dB Ref 26.66 dBm Mkr3 2.416652 GHz -5.6096 dBm Center 2.412 GHz #Res BW 200 kHz #VBW 620 kHz Span 30 MHz Sweep 1 ms Occupied Bandwidth 12.890 MHz Total Power 17.5 dBm Transmit Freq Error 34.867 kHz OBW Power 99.00 % x dB Bandwidth 9.235 MHz x dB -6.00 dB
802.11b /MCH	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.43700000 GHz Center Freq: 2.43700000 GHz Trig: Free Run Avg/Hold: 100/100 Radio Std: None Radio Device: BTS Ref Offset 5.72 dB Ref 26.72 dBm Mkr3 2.441229 GHz -3.1202 dBm Center 2.437 GHz #Res BW 200 kHz #VBW 620 kHz Span 30 MHz Sweep 1 ms Occupied Bandwidth 12.904 MHz Total Power 16.2 dBm Transmit Freq Error -6.440 kHz OBW Power 99.00 % x dB Bandwidth 8.472 MHz x dB -6.00 dB
802.11b/HCH	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.46200000 GHz Center Freq: 2.46200000 GHz Trig: Free Run Avg/Hold: 100/100 Radio Std: None Radio Device: BTS Ref Offset 5.7 dB Ref 26.70 dBm Mkr3 2.466574 GHz -4.4951 dBm Center 2.462 GHz #Res BW 200 kHz #VBW 620 kHz Span 30 MHz Sweep 1 ms Occupied Bandwidth 12.943 MHz Total Power 16.0 dBm Transmit Freq Error 47.131 kHz OBW Power 99.00 % x dB Bandwidth 9.055 MHz x dB -6.00 dB

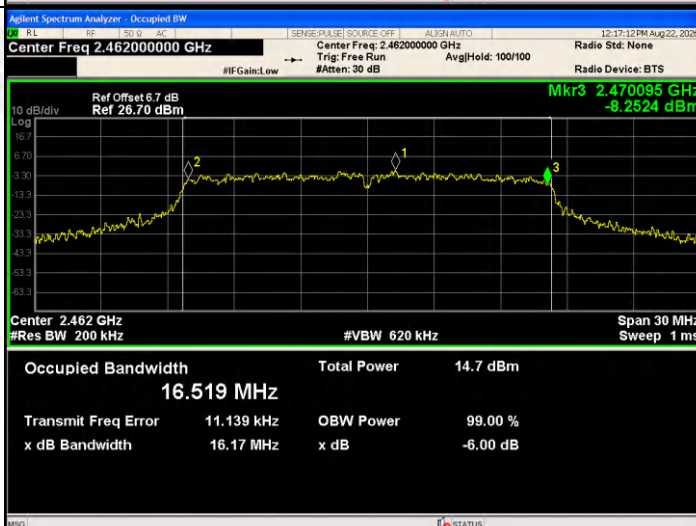
802.11g/LCH



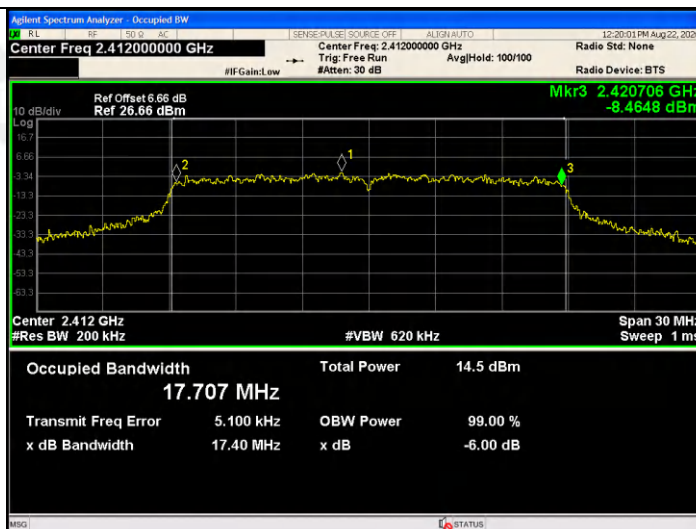
802.11g/MCH



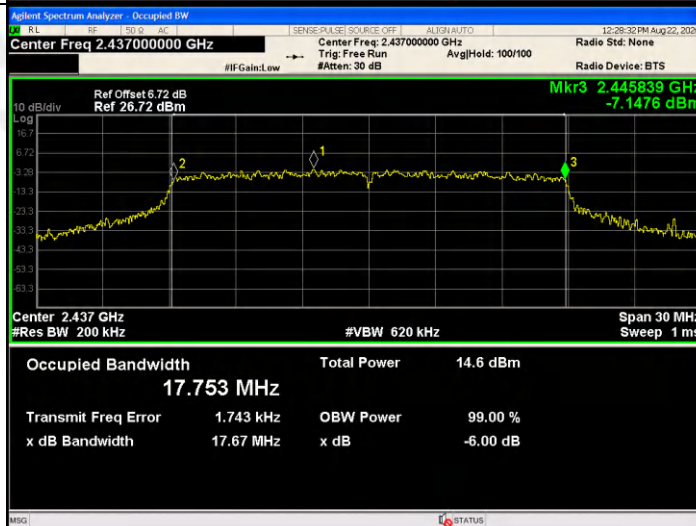
802.11g/HCH



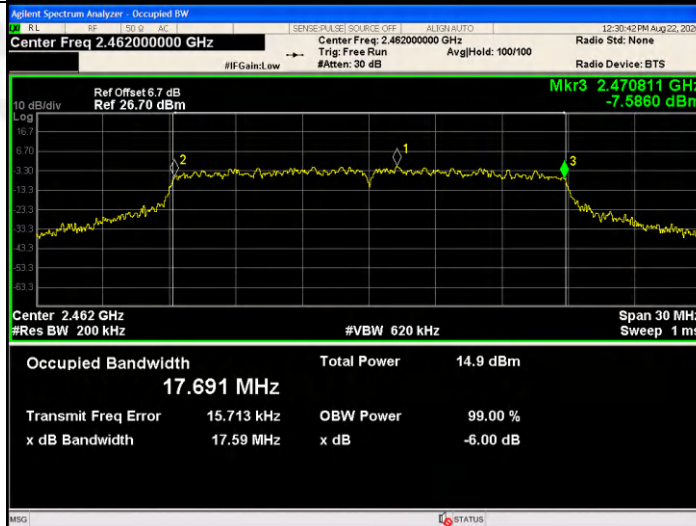
802.11n(HT20)/LCH



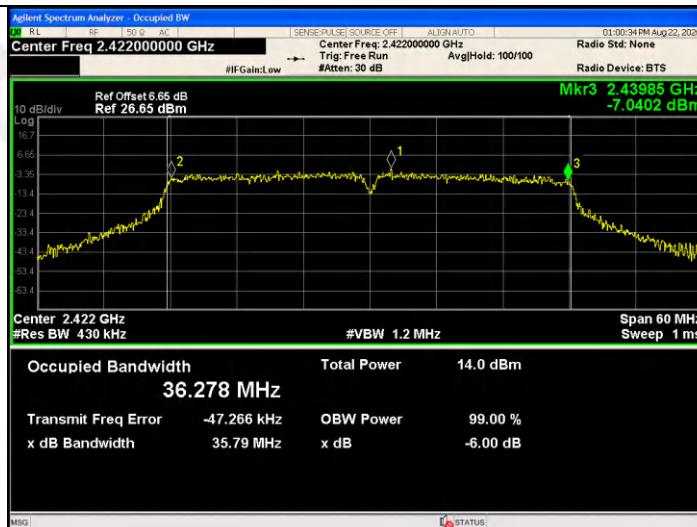
802.11n(HT20)/MCH



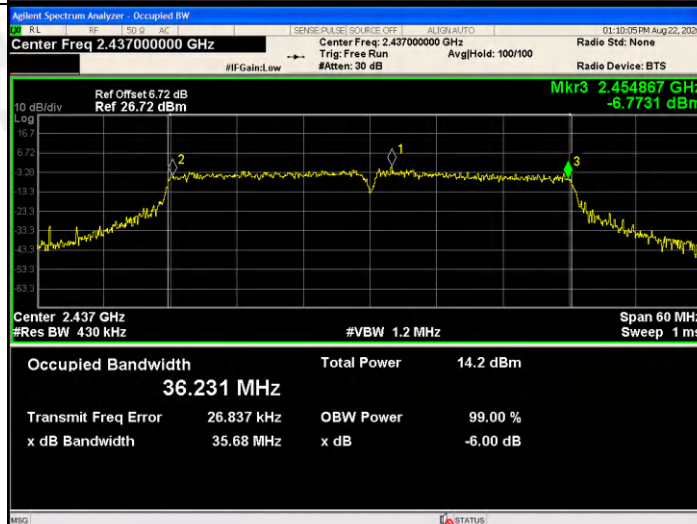
802.11n(HT20)/HCH



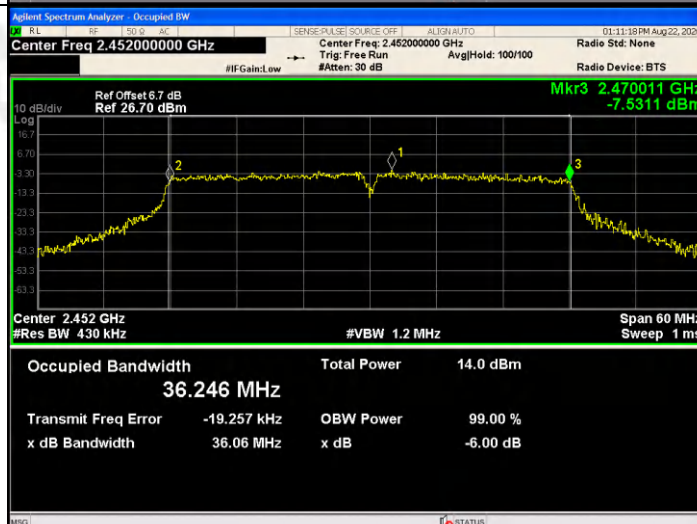
802.11n(HT40)/LCH



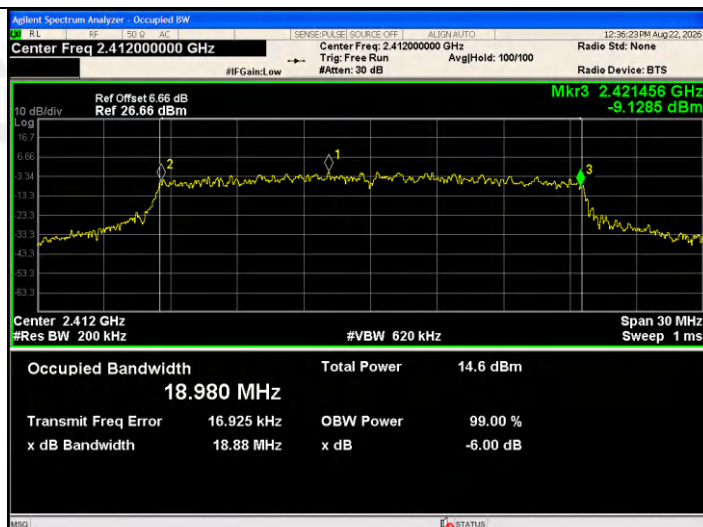
802.11n(HT40)/MCH



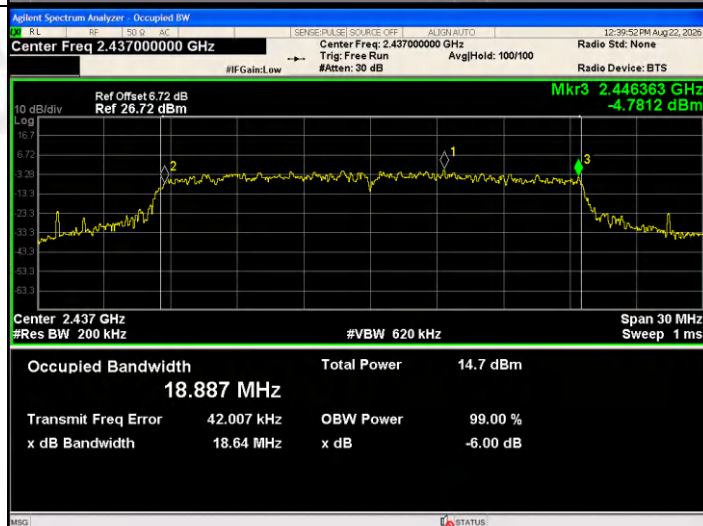
802.11n(HT40)/HCH



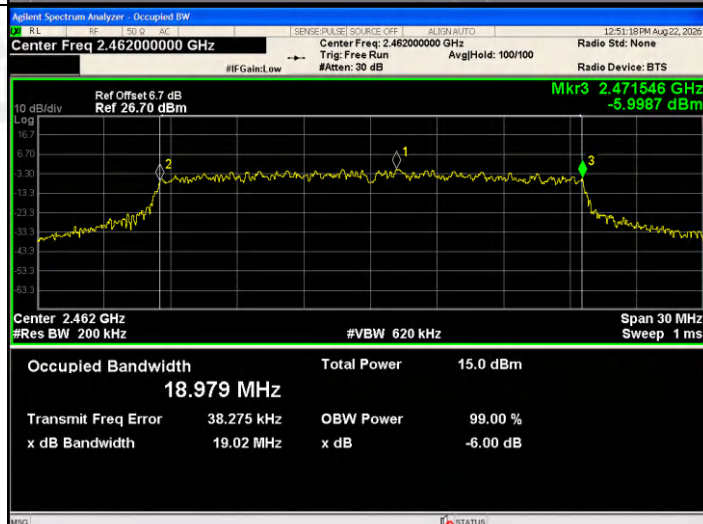
802.11ax(HE20)/LCH



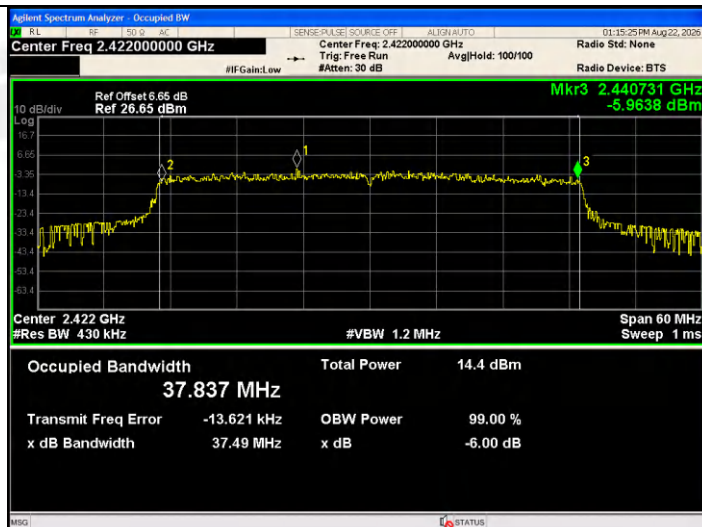
802.11ax(HE20)/MCH



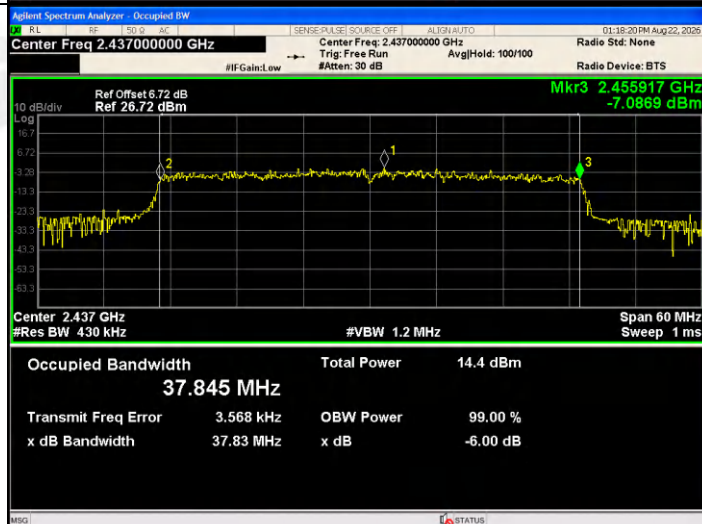
802.11ax(HE20)/HCH



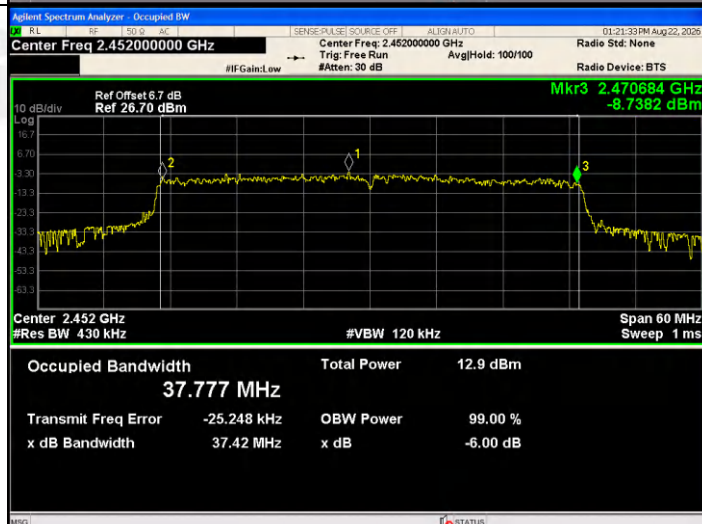
802.11ax(HE40)/LCH



802.11ax(HE40)/MCH

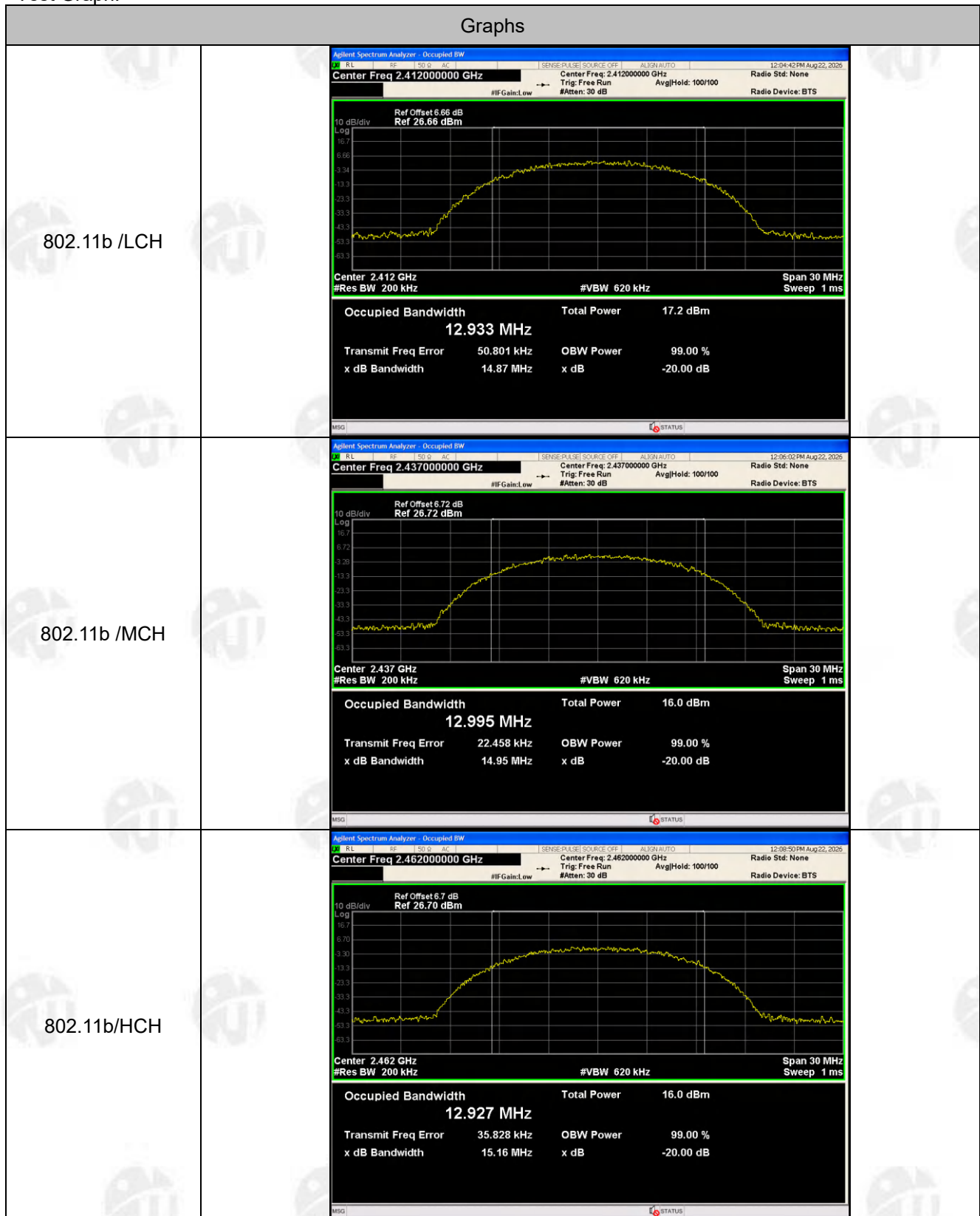


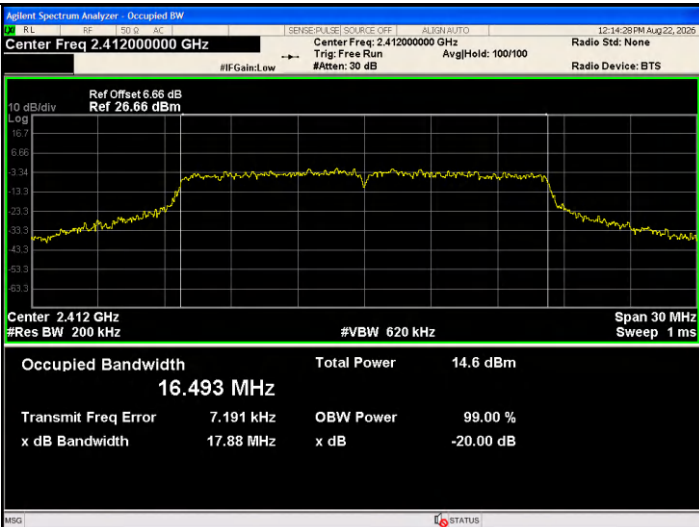
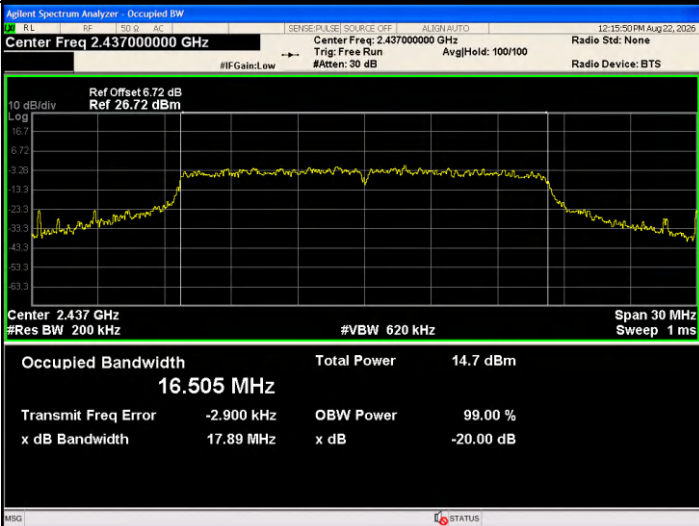
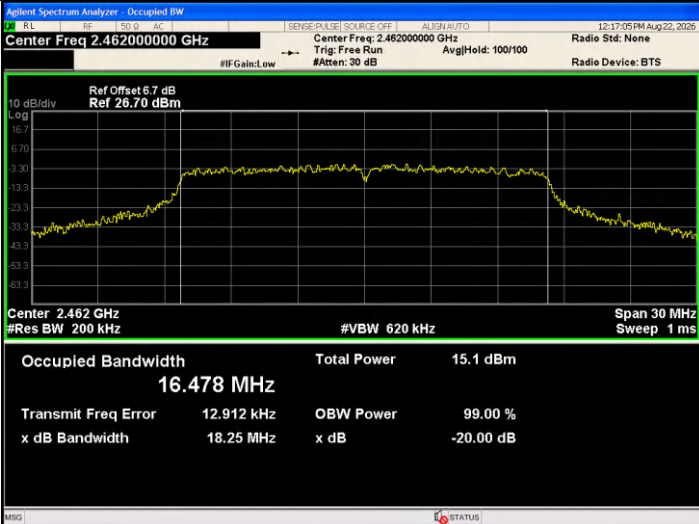
802.11ax(HE40)/HCH



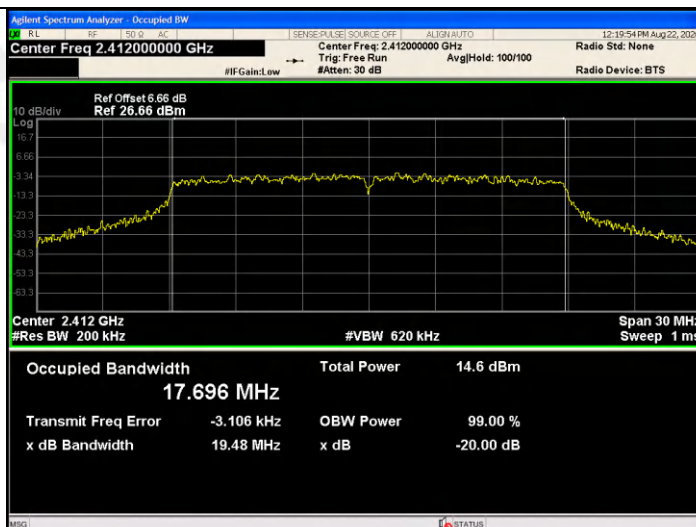
99%

Test Graph:

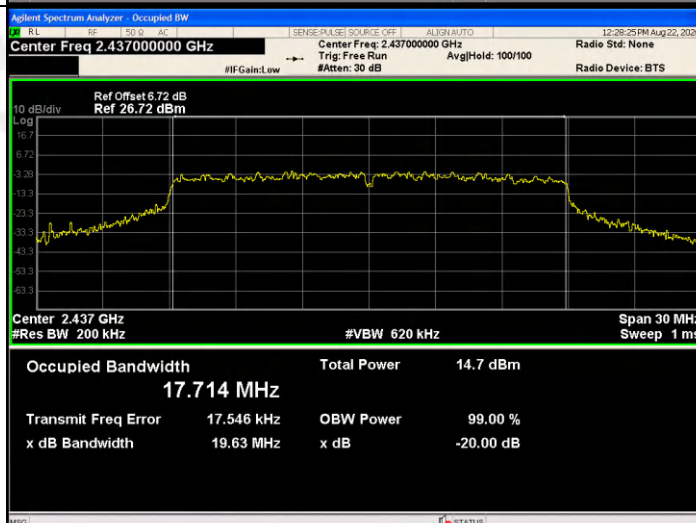


802.11g/LCH		
802.11g/MCH		
802.11g/HCH		

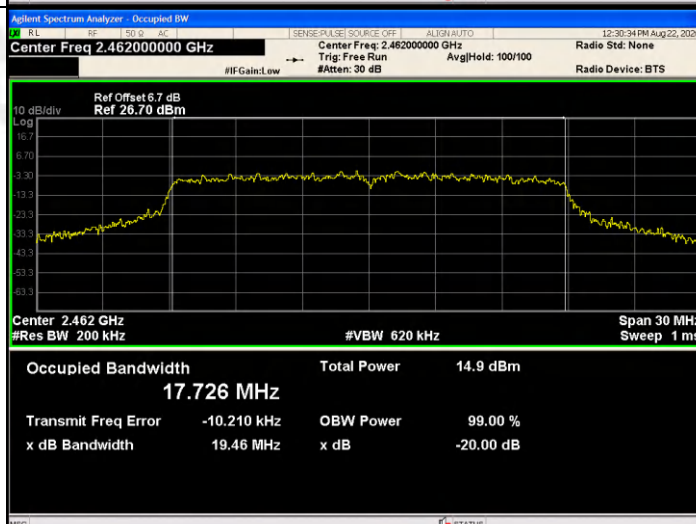
802.11n(HT20)/LCH

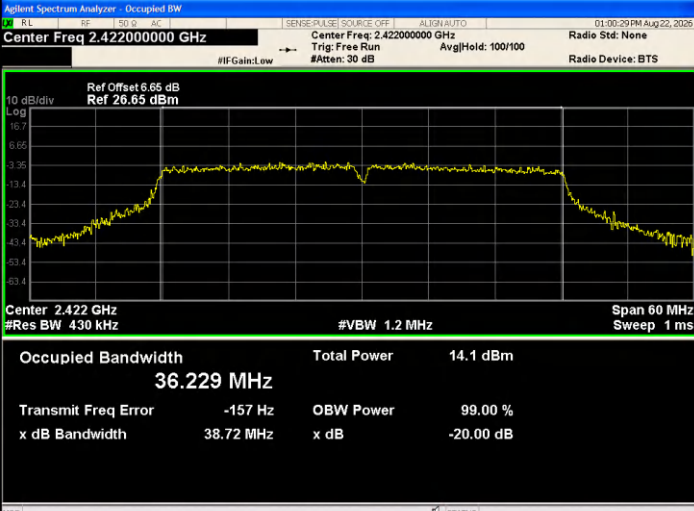
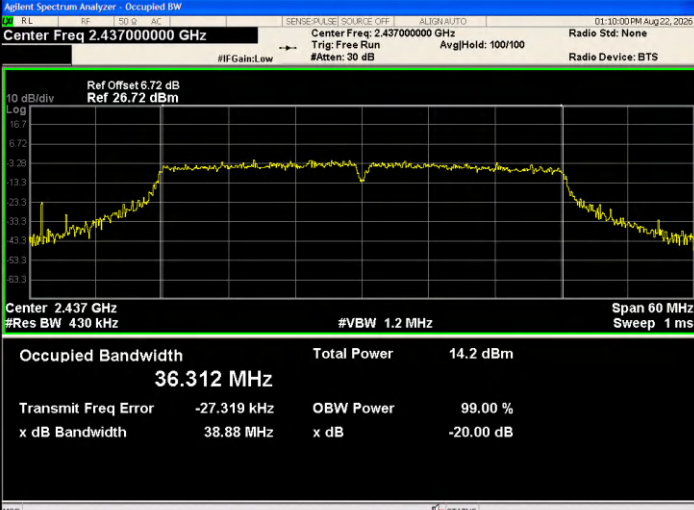
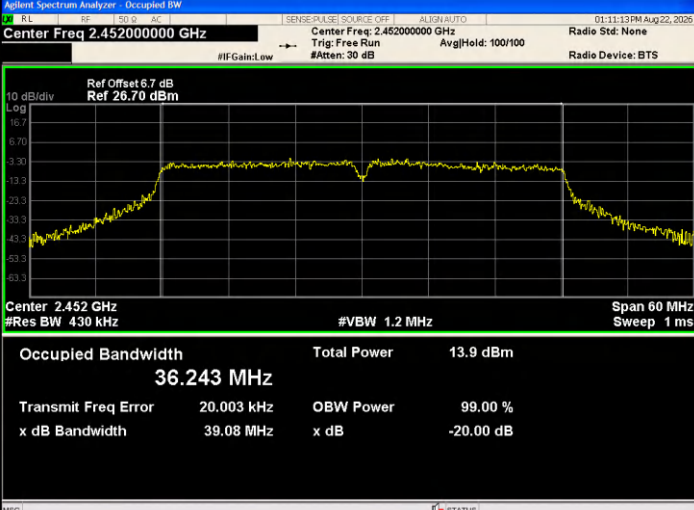


802.11n(HT20)/MCH

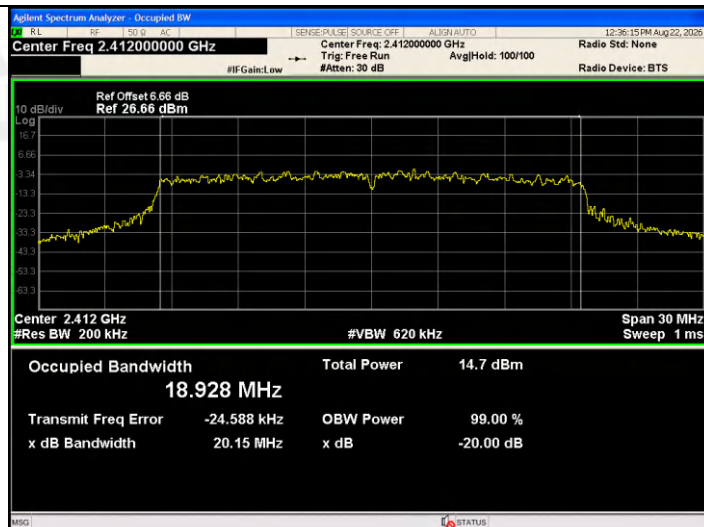


802.11n(HT20)/HCH

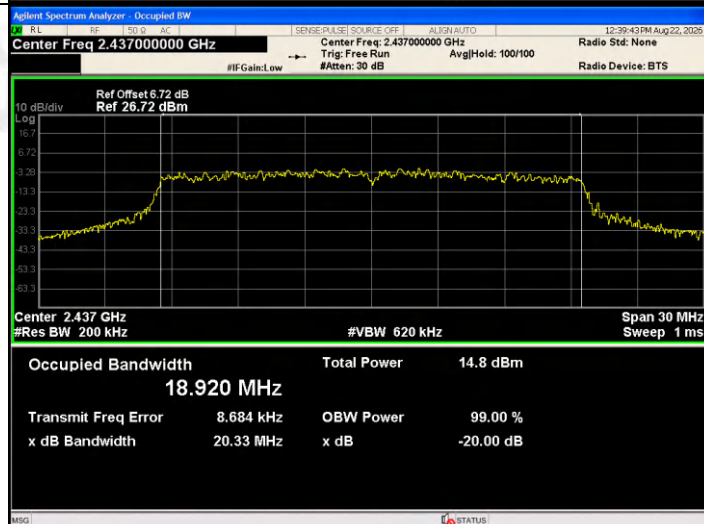


802.11n(HT40)/LCH	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.422000000 GHz Ref Offset 6.65 dB Ref 26.65 dBm Center 2.422 GHz #Res BW 430 kHz Occupied Bandwidth 36.229 MHz Total Power 14.1 dBm Transmit Freq Error -157 Hz x dB Bandwidth 38.72 MHz
802.11n(HT40)/MCH	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.437000000 GHz Ref Offset 6.72 dB Ref 26.72 dBm Center 2.437 GHz #Res BW 430 kHz Occupied Bandwidth 36.312 MHz Total Power 14.2 dBm Transmit Freq Error -27.319 kHz x dB Bandwidth 38.88 MHz
802.11n(HT40)/HCH	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.452000000 GHz Ref Offset 6.7 dB Ref 26.70 dBm Center 2.452 GHz #Res BW 430 kHz Occupied Bandwidth 36.243 MHz Total Power 13.9 dBm Transmit Freq Error 20.003 kHz x dB Bandwidth 39.08 MHz

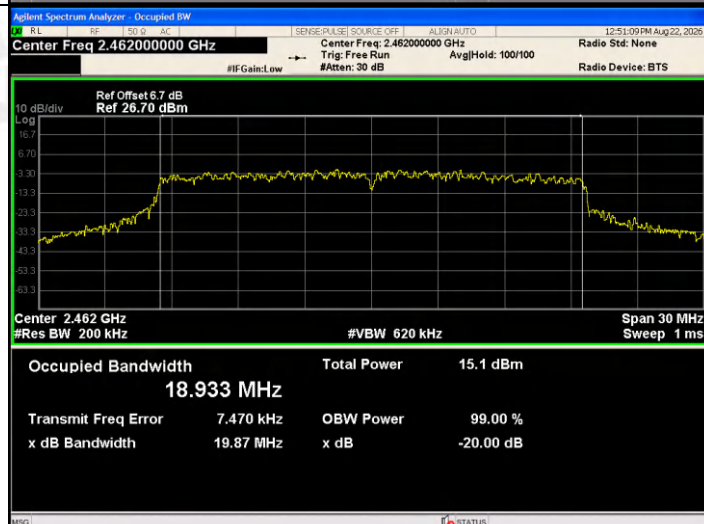
802.11ax(HE20)/LCH



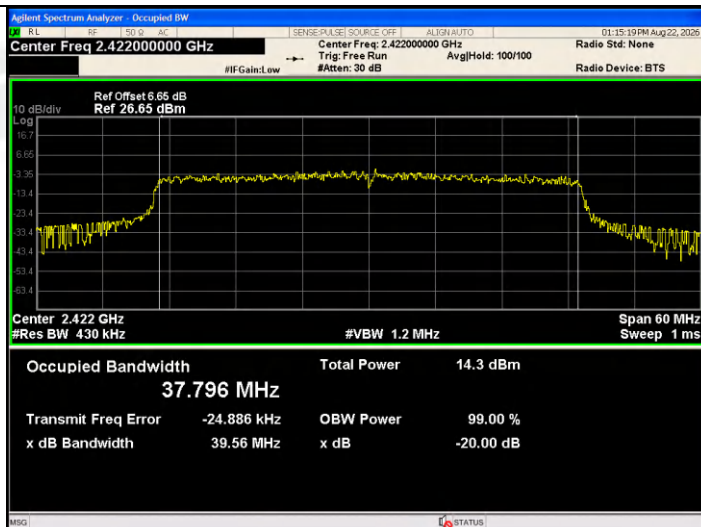
802.11ax(HE20)/MCH



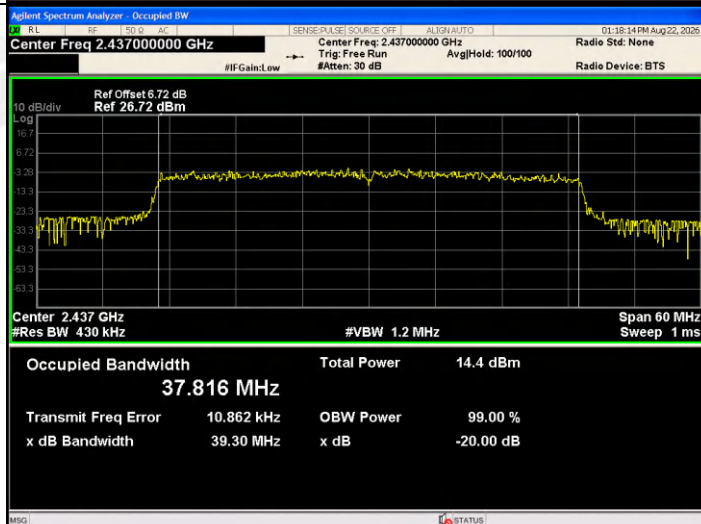
802.11ax(HE20)/HCH



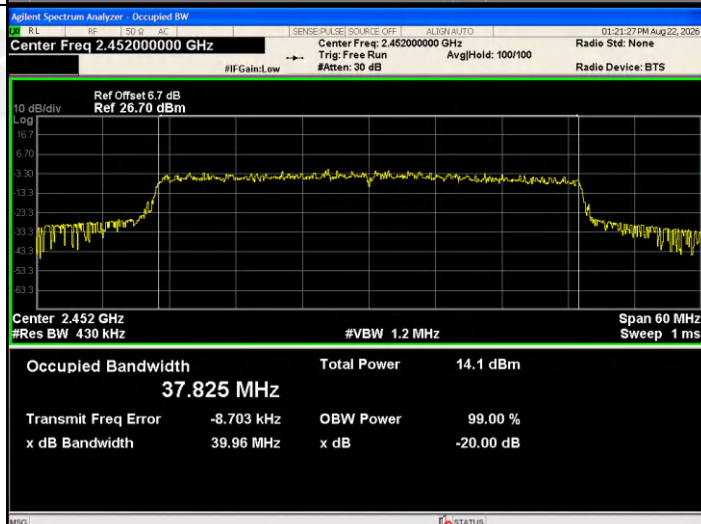
802.11ax(HE40)/LCH



802.11ax(HE40)/MCH



802.11ax(HE40)/HCH



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

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

The EUT was directly connected to the Power meter

8.4.Test Result

Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
802.11b	LCH	16.27	30	PASS
	MCH	15.183	30	PASS
	HCH	14.915	30	PASS
802.11g	LCH	15.634	30	PASS
	MCH	15.652	30	PASS
	HCH	15.823	30	PASS
802.11n(HT20)	LCH	15.16	30	PASS
	MCH	15.509	30	PASS
	HCH	15.795	30	PASS
802.11n(HT40)	LCH	14.932	30	PASS
	MCH	14.942	30	PASS
	HCH	14.636	30	PASS
802.11ax(HE20)	LCH	15.43	30	PASS
	MCH	15.294	30	PASS
	HCH	15.653	30	PASS
802.11ax(HE40)	LCH	14.988	30	PASS
	MCH	14.968	30	PASS
	HCH	14.897	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 v05r02 April 2, 2019; ANSI C63.10-2020+Cor.1-2023

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 = PEAK
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 meet the 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.

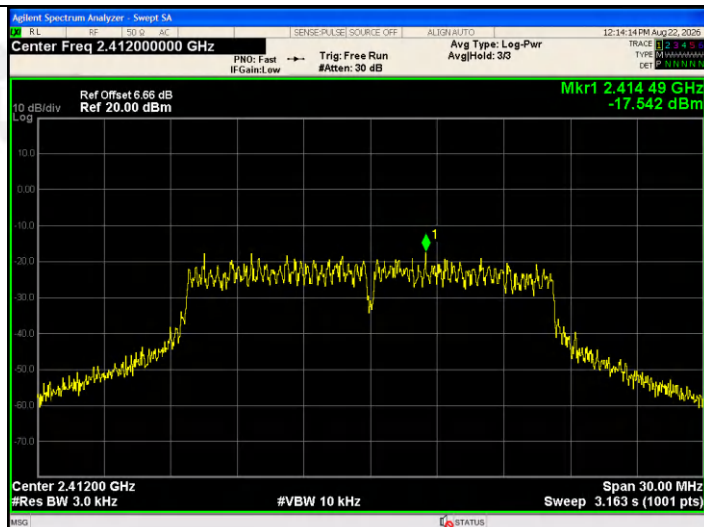
9.4.Test Result

Mode	Channel.	Power Spectral Density [dBm /3kHz]	Limit(8 dBm (in any 3kHz))	Verdict
802.11b	LCH	-12.973	8	PASS
	MCH	-13.471	8	PASS
	HCH	-13.554	8	PASS
802.11g	LCH	-17.542	8	PASS
	MCH	-19.529	8	PASS
	HCH	-17.282	8	PASS
802.11n(HT20)	LCH	-17.908	8	PASS
	MCH	-19.618	8	PASS
	HCH	-17.097	8	PASS
802.11n(HT40)	LCH	-22.835	8	PASS
	MCH	-22.86	8	PASS
	HCH	-21.042	8	PASS
802.11ax(HE20)	LCH	-18.596	8	PASS
	MCH	-19.515	8	PASS
	HCH	-18.384	8	PASS
802.11ax(HE40)	LCH	-22.124	8	PASS
	MCH	-22.481	8	PASS
	HCH	-22.175	8	PASS

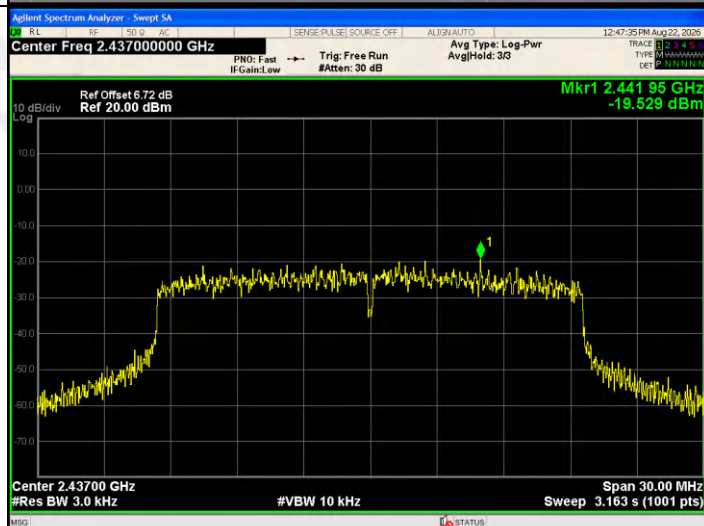
Test Graph

Graphs	
802.11b/LCH	
802.11b/MCH	
802.11b/HCH	

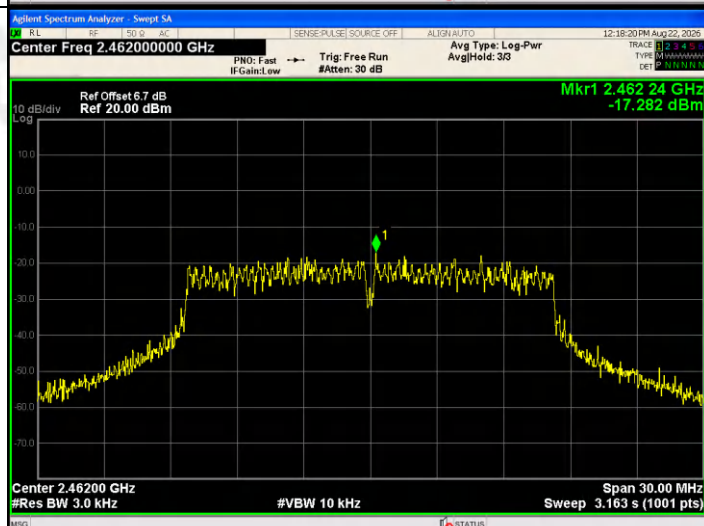
802.11g/LCH

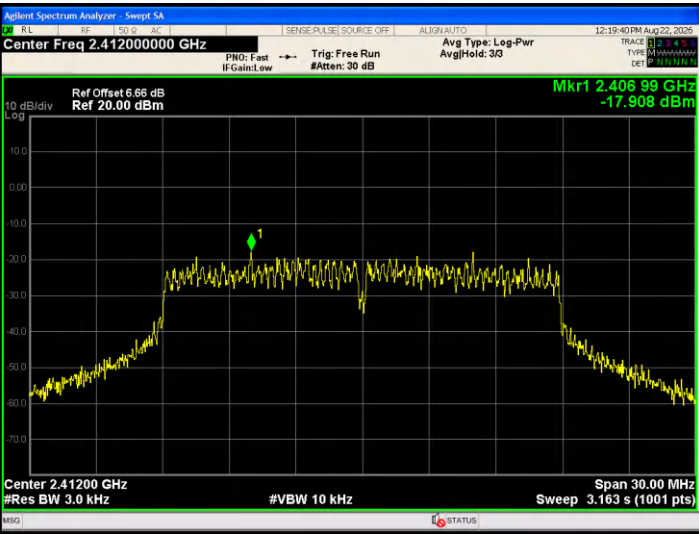
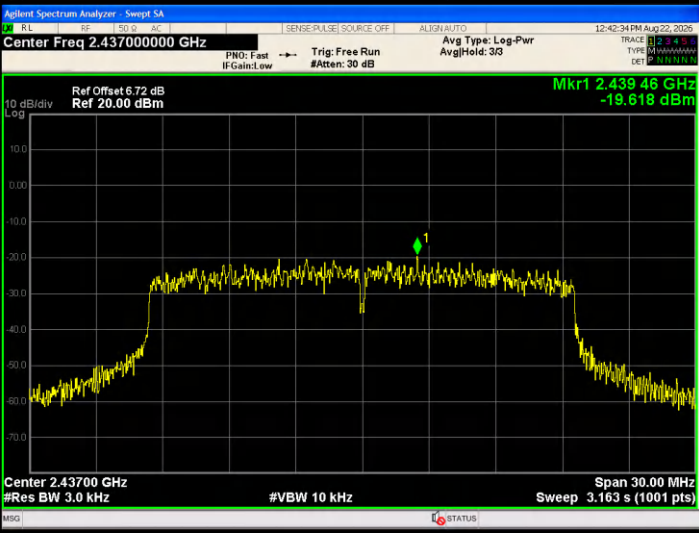
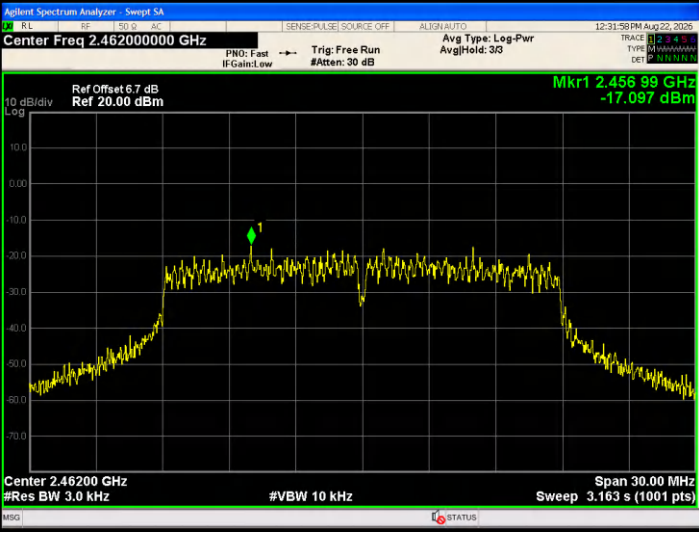


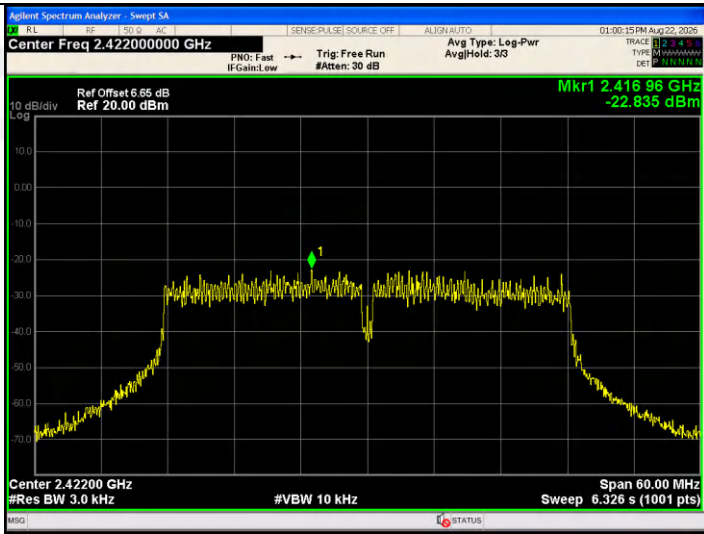
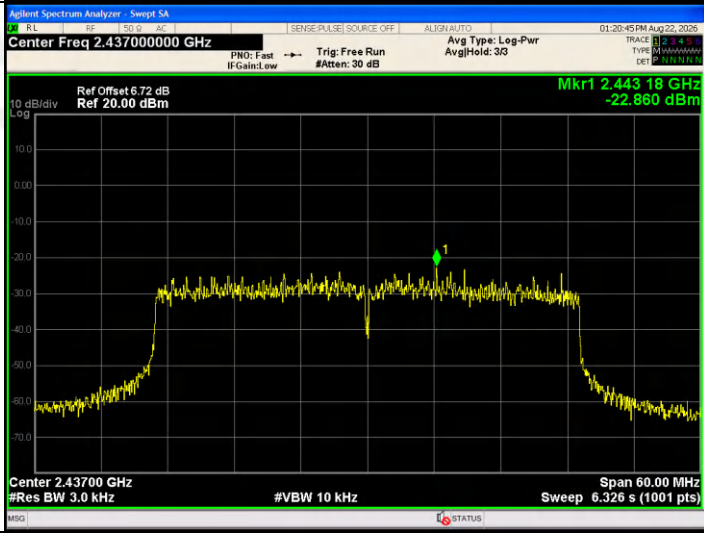
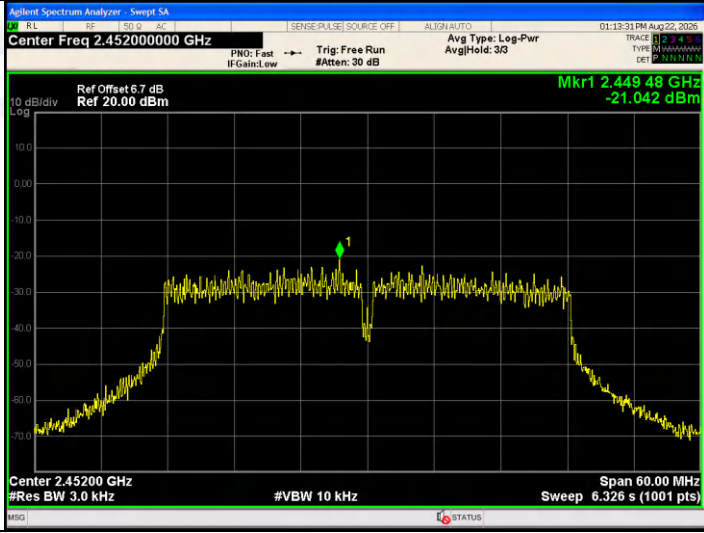
802.11g/MCH

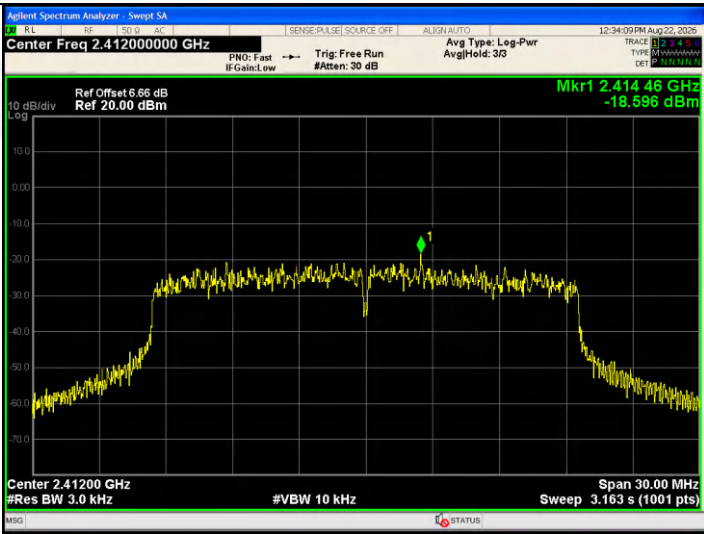
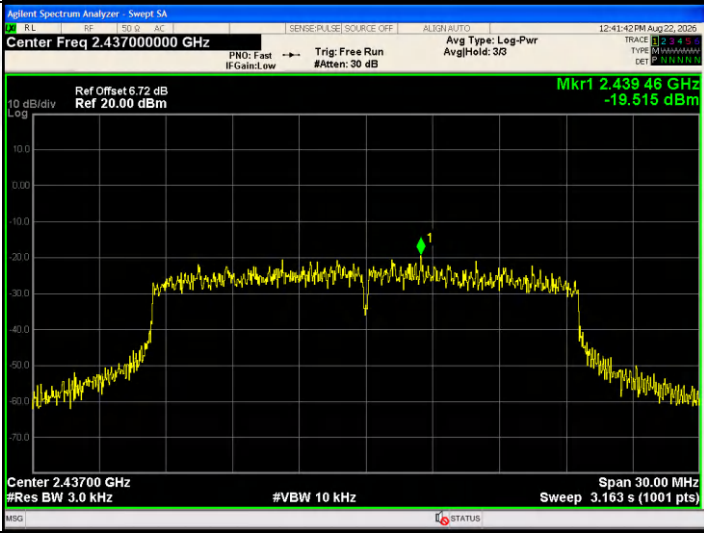
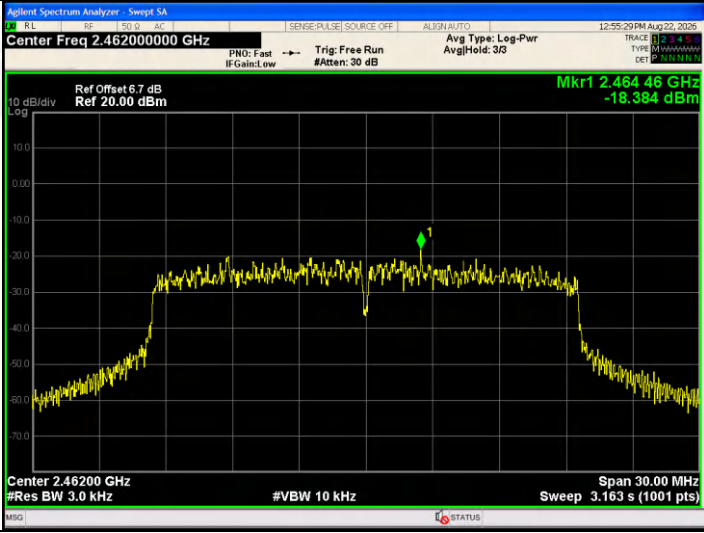


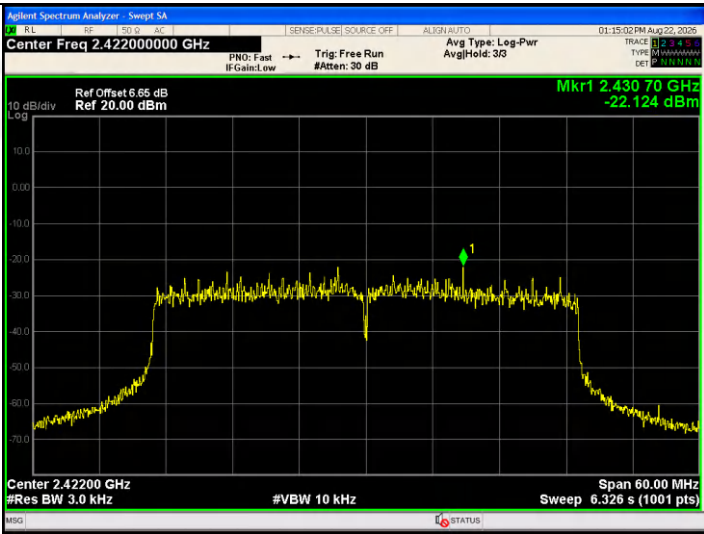
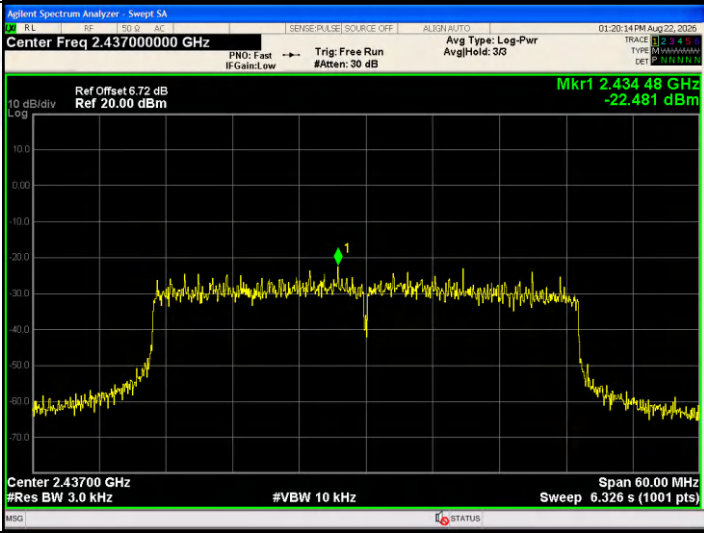
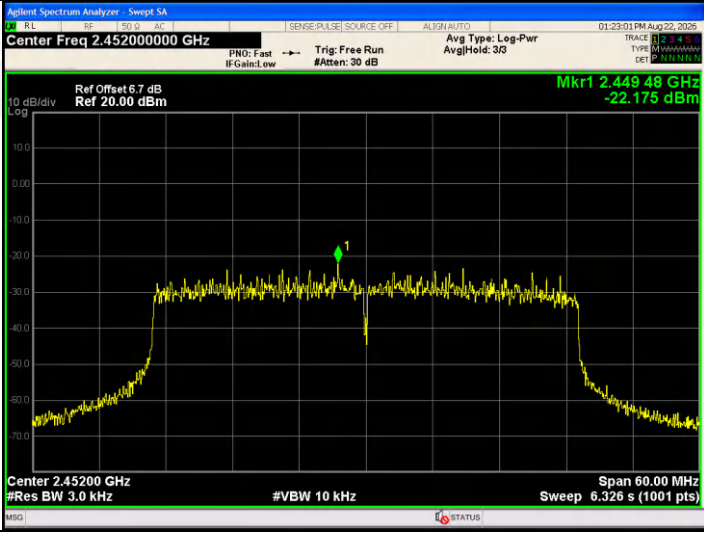
802.11g/HCH



802.11n(HT20)/LCH	
802.11n(HT20)/MCH	
802.11n(HT20)/HCH	

802.11n(HT40)/LCH	
802.11n(HT40)/MCH	
802.11n(HT40)/HCH	

802.11ax(HE20)/LCH	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.41200000 GHz Ref Offset 6.66 dB Ref 20.00 dBm Mkr1 2.414 46 GHz -18.596 dBm Center 2.41200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)
802.11ax(HE20)/MCH	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.43700000 GHz Ref Offset 6.72 dB Ref 20.00 dBm Mkr1 2.439 46 GHz -19.515 dBm Center 2.43700 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)
802.11ax(HE20)/HCH	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.46200000 GHz Ref Offset 6.7 dB Ref 20.00 dBm Mkr1 2.464 46 GHz -18.384 dBm Center 2.46200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)

802.11ax(HE40)/LCH	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.42200000 GHz Ref Offset 6.65 dB Ref 20.00 dBm Mkr1 2.43070 GHz -22.124 dBm Center 2.42200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 60.00 MHz Sweep 6.326 s (1001 pts)
802.11ax(HE40)/MCH	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.43700000 GHz Ref Offset 6.72 dB Ref 20.00 dBm Mkr1 2.43448 GHz -22.481 dBm Center 2.43700 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 60.00 MHz Sweep 6.326 s (1001 pts)
802.11ax(HE40)/HCH	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.45200000 GHz Ref Offset 6.7 dB Ref 20.00 dBm Mkr1 2.44948 GHz -22.175 dBm Center 2.45200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 60.00 MHz Sweep 6.326 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 FPC antenna, and the maximum antenna gain is 3.1dBi, fulfill the requirement of this section.

11. TEST SETUP & EUT PHOTOGRAPH

Please see the attachment for details.

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