



TEST REPORT

For WiFi-2.4GHz Band

Report No. : CHTEW23110071 Report Verification: 
Project No..... : SHT2306080101EW
FCC ID..... : 2A8OE-F8926-GW-02
Applicant's name..... : Xiamen Four-Faith Communication Technology Co., Ltd.
Address..... : 11th Floor,A-06 Area,No.370,Chengyi
Street,Jimei,Xiamen,Fujian,China.
Product Name : LoRaWAN Gateway
Trade Mark : 
Model No. : F8926-GW-02
Listed Model(s) : -
Standard : FCC CFR Title 47 Part 15 Subpart C § 15.247
Date of receipt of test sample..... : Aug. 07, 2023
Date of testing..... : Aug. 14, 2023- Nov. 24, 2023
Date of issue..... : Nov. 27, 2023
Result..... : PASS

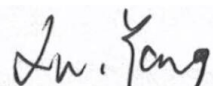
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Testing Laboratory Name : Shenzhen Huatongwei International Inspection Co., Ltd.

Address..... : 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road,
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1. TEST STANDARDS AND REPORT VERSION

1.1. Test Standards

The tests were performed according to following standards:

- [FCC CFR Title 47 Part 15 Subpart C § 15.247](#): Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz
- [ANSI C63.10:2020](#): American National Standard for Testing Unlicensed Wireless Devices
- [KDB 558074 D01 15.247 Meas Guidance v05r02](#): Guidance for Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid System Devices Operating under Section 15.247 of The FCC Rules

1.2. Report version

Revision No.	Date of issue	Description
N/A	2023-11-27	Original

2. TEST DESCRIPTION

Report clause	Test Items	Standard Requirement	Result	Test Engineer
5.1	Antenna Requirement	15.203/15.247(c)	PASS	Caspar Chen
5.2	AC Conducted Emission	15.207	PASS	Caspar Chen
5.3	Peak Output Power	15.247(b)(3)	PASS	Caspar Chen
5.4	Power Spectral Density	15.247(e)	PASS	Caspar Chen
5.5	6dB Bandwidth	15.247(a)(2)	PASS	Caspar Chen
5.6	99% Occupied Bandwidth	-	PASS ^{*1}	Caspar Chen
5.7	Duty cycle	-	PASS ^{*1}	Caspar Chen
5.8	Conducted Band Edge and Spurious Emission	15.247(d)/15.205	PASS	Caspar Chen
5.9	Radiated Band Edge Emission	15.205/15.209	PASS	Yifan Wang
5.10	Radiated Spurious Emission	15.247(d)/15.205/15.209	PASS	Yifan Wang

Note:

- The measurement uncertainty is not included in the test result.
- ^{*1}: No requirement on standard, only report these test data.

3. SUMMARY

3.1. Client Information

Applicant:	Xiamen Four-Faith Communication Technology Co., Ltd.
Address:	11th Floor,A-06 Area,No.370,Chengyi Street,Jimei,Xiamen,Fujian,China.
Manufacturer:	Xiamen Four-Faith Communication Technology Co., Ltd.
Address:	11th Floor,A-06 Area,No.370,Chengyi Street,Jimei,Xiamen,Fujian,China.

3.2. Product Description

Main unit information:	
Product Name:	LoRaWAN Gateway
Trade Mark:	
Model No.:	F8926-GW-02
Listed Model(s):	-
Power supply:	DC 12V from Adapter
Hardware version:	V 1.0.0.2
Software version:	F8926GW-V2-IOTGW-32M-STD-VPN-20230313.flash
Accessory unit information:	
Adapter information:	MODEL: KL-AD3060VA INPUT: 100-240V~50/60Hz 0.7A OUTPUT: DC 12V, 1.5A

3.3. Radio Specification Description

Support type:	☒ 802.11b	☒ 802.11g	☒ 802.11n
Support bandwidth:	☒ 20MHz	☒ 40MHz	
Modulation:	802.11b: DBPSK, DQPSK, BPSK, QPSK 802.11g/n: BPSK, QPSK, 16QAM, 64QAM		
Operation frequency:	802.11b/g/n(HT20): 2412MHz~2462MHz 802.11n(HT40) 2422MHz~2452MHz		
Channel number:	802.11b/g/n(HT20): 11 802.11n(HT40) 7		
Channel separation:	5MHz		
Antenna technology:	☒ SISO	☐ MIMO	
Antenna type:	Stick Antenna		
Antenna gain:	2.9dBi		

3.4. Testing Laboratory Information

Laboratory Name	Shenzhen Huatongwei International Inspection Co., Ltd.	
Laboratory Location	1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China	
Contact information:	Phone: 86-755-26715499 E-mail: cs@szhtw.com.cn http://www.szhtw.com.cn	
Qualifications	Type	Accreditation Number
	FCC	762235

4. TEST CONFIGURATION

4.1. Test frequency list

According to section 15.31(m), regards to the operating frequency range over 10 MHz, must select three channels which were tested. The Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, please see the below blue front.

802.11b/g/n(HT20)		802.11n(HT40)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	03	2422
02	2417	04	2427
· :	· :	· :	· :
06	2437	06	2437
· :	· :	· :	· :
10	2457	08	2447
11	2462	09	2452

4.2. Test mode

For RF test items
The engineering test program was provided and enabled to make EUT continuous transmit.
For AC power line conducted emissions:
The EUT was set to connect with the WLAN AP under large package sizes transmission.
For Radiated spurious emissions
The engineering test program was provided and enabled to make EUT continuous transmit. The EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data Recorded in the report.

Preliminary tests were performed in different data rates, final test modes are considering the modulation and worse data rates as below table.

Modulation	Data rate
802.11b	1Mbps
802.11g	6Mbps
802.11n(HT20)	MCS0
802.11n(HT40)	MCS0

4.3. Test sample information

Test item	HTW sample no.
RF Conducted test items	Please refer to the description in the appendix report
RF Radiated test items	YPHT23060801007
EMI test items	YPHT23060801008

Note:

RF Conducted test items: Peak Output Power, Power Spectral Density, 6dB Bandwidth, 99% Occupied Bandwidth, Duty cycle, Conducted Band Edge and Spurious Emission

RF Radiated test items: Radiated Band Edge Emission, Radiated Spurious Emission

EMI test items: AC Conducted Emission

4.4. Support unit used in test configuration and system

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

The following peripheral devices and interface cables were connected during the measurement:

Whether support unit is used?			
✓ No			
Item	Equipment	Trade Name	Model No.
1			
2			

4.5. Testing environmental condition

Type	Requirement	Actual
Temperature:	15~35°C	25°C
Relative Humidity:	25~75%	50%
Air Pressure:	860~1060mbar	1000mbar

4.6. Statement of the measurement uncertainty

No.	Test Items	Measurement Uncertainty
1	AC Conducted Emission	3.21dB
2	Peak Output Power	1.07
3	Power Spectral Density	1.07
4	6dB Bandwidth	0.002%
5	99% Occupied Bandwidth	0.002%
6	Duty cycle	-
7	Conducted Band Edge and Spurious Emission	1.68dB
8	Radiated Band Edge Emission	4.54dB for 30MHz-1GHz 5.10dB for above 1GHz
9	Radiated Spurious Emission	4.54dB for 30MHz-1GHz 5.10dB for above 1GHz

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

4.7. Equipment Used during the Test

● RF Conducted test item							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Signal and spectrum Analyzer	R&S	HTWE0242	FSV40	100048	2023/08/22	2024/08/21
●	Signal & Spectrum Analyzer	R&S	HTWE0262	FSW26	103440	2023/08/22	2024/08/21
●	Vector signal generator	R&S	HTWE0244	SMBV100A	260790	2023/05/23	2024/05/22
●	Test software	Tonscend	N/A	JS1120	N/A	N/A	N/A

● Conducted Emission							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	EMI Test Receiver	R&S	HTWE0111	ESCI	101247	2023/8/22	2024/8/21
●	Artificial Mains	SCHWARZBECK	HTWE0113	NNLK 8121	573	2023/8/18	2024/8/17
●	Protection Network	SCHWARZBECK	HTWE0567	VTSD9561FN	00899	2023/8/18	2024/8/17
●	ISN	FCC	HTWE0148	FCC-TLISN-T2-02	20371	2023/8/18	2024/8/17
●	ISN	FCC	HTWE0150	FCC-TLISN-T8-02	20375	2023/8/18	2024/8/17
●	Test Software	R&S	N/A	EMC32	N/A	N/A	N/A

● Radiated Emission – 9kHz~30MHz							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Semi-Anechoic Chamber	Albatross projects	HTWE0127	SAC-3m-02	C11121	2023/4/6	2026/4/5
●	EMI Test Receiver	R&S	HTWE0099	ESCI 7	100900	2023/8/22	2024/8/21
●	Loop Antenna	R&S	HTWE0170	HFH2-Z2	100020	2021/4/6	2024/4/5
●	Test Software	R&S	N/A	EMC32	N/A	N/A	N/A

● Radiated Emission - 30MHz~1GHz							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Semi-Anechoic Chamber	Albatross projects	HTWE0127	SAC-3m-02	C11121	2023/4/6	2026/4/5
●	EMI Test Receiver	R&S	HTWE0099	ESCI 7	100900	2023/8/22	2024/8/21
●	Ultra-Broadband Antenna	SCHWARZBECK	HTWE0119	VULB9163	546	2023/2/22	2026/2/21
●	Pre-Amplifier	SCHWARZBECK	HTWE0295	BBV 9742	/	2023/5/25	2024/5/24
●	Test Software	R&S	N/A	EMC32	N/A	N/A	N/A

● Radiated emission-Above 1GHz

Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Semi-Anechoic Chamber	Albatross projects	HTWE0122	SAC-3m-01	C11121	2023/4/17	2026/4/16
●	Spectrum Analyzer	R&S	HTWE0098	FSP40	100597	2023/8/22	2024/8/21
●	Horn Antenna	SCHWARZBECK	HTWE0126	BBHA 9120D	1011	2023/2/14	2026/2/13
●	Horn Antenna	SCHWARZBECK	HTWE0103	BBHA9170	BBHA9170472	2023/2/20	2026/2/19
●	Broadband Pre-amplifier	SCHWARZBECK	HTWE0201	BBV 9718	9718-248	2023/5/25	2024/5/24
●	Test Software	R&S	N/A	EMC32	N/A	N/A	N/A

5. TEST CONDITIONS AND RESULTS

5.1. Antenna Requirement

REQUIREMENT

FCC CFR Title 47 Part 15 Subpart C Section 15.203:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

TEST RESULT

☒ Passed ☐ Not Applicable

The antenna type is a Stick Antenna, please refer to the below antenna photo.



5.2. AC Conducted Emission

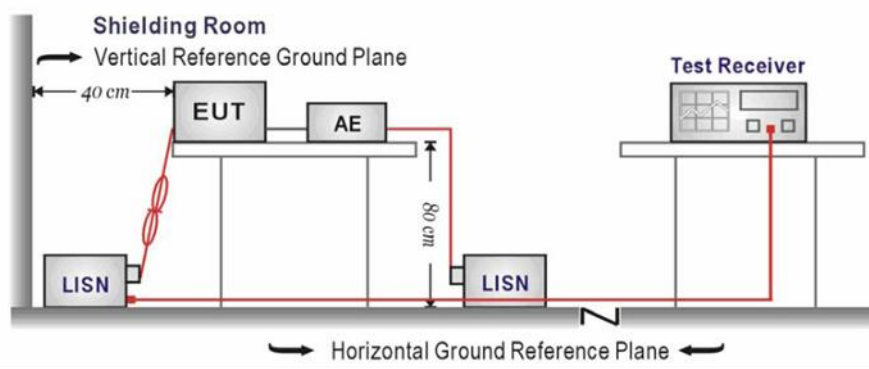
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.207

Frequency range (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

TEST CONFIGURATION



TEST PROCEDURE

1. The EUT was setup according to ANSI C63.10 requirements.
2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
3. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment.
4. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
6. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
7. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
8. During the above scans, the emissions were maximized by cable manipulation.

TEST MODE

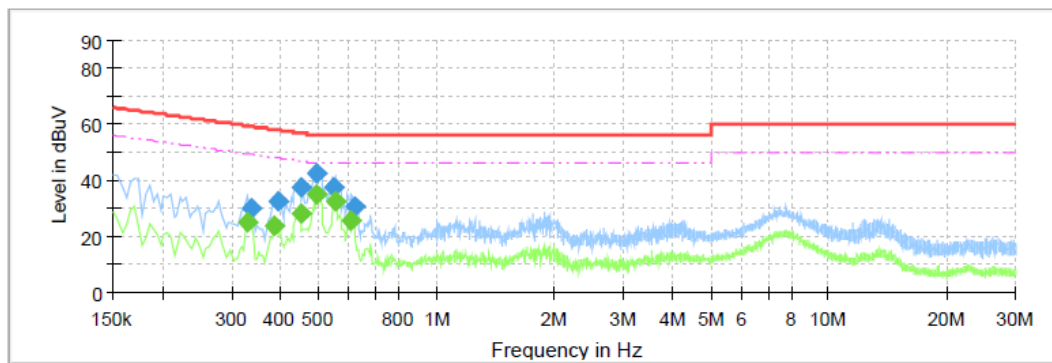
Refer to the clause 4.2

TEST RESULT

☒ Passed ☐ Not Applicable

Test Line:

L

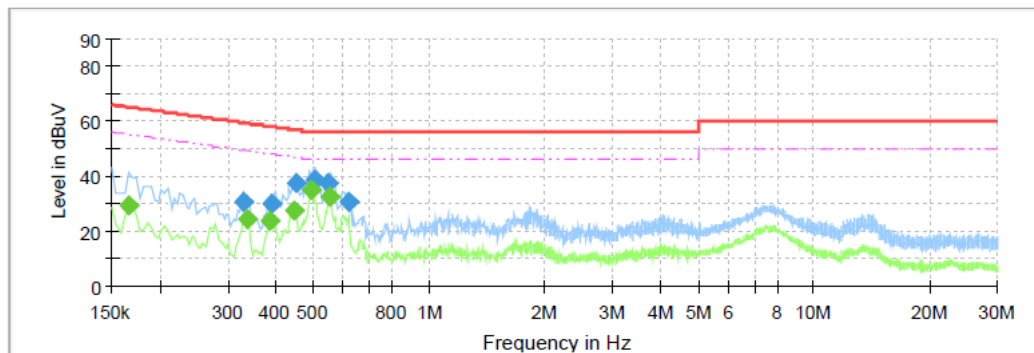


Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.3315	---	25.22	49.41	24.20	L1	10.0
0.3355	30.11	---	59.31	29.20	L1	10.0
0.3875	---	23.82	48.12	24.29	L1	10.0
0.3955	32.79	---	57.95	25.15	L1	10.0
0.4515	---	28.05	46.85	18.80	L1	10.0
0.4515	37.42	---	56.85	19.43	L1	10.0
0.4955	42.47	---	56.08	13.61	L1	10.0
0.4955	---	34.72	46.08	11.36	L1	10.0
0.5475	37.55	---	56.00	18.45	L1	10.0
0.5515	---	32.48	46.00	13.52	L1	10.0
0.6075	---	25.59	46.00	20.41	L1	10.0
0.6165	30.47	---	56.00	25.53	L1	10.0

Test Line:

N



Final Result

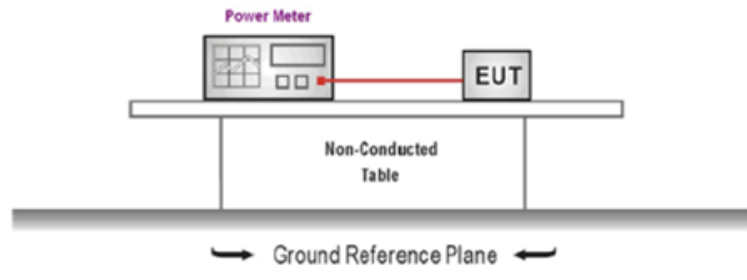
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.1660	---	29.19	55.16	25.96	N	10.0
0.3315	30.70	---	59.41	28.71	N	10.0
0.3355	---	24.32	49.31	24.99	N	10.0
0.3875	---	23.68	48.12	24.44	N	10.0
0.3915	30.23	---	58.03	27.80	N	10.0
0.4475	---	27.61	46.92	19.31	N	10.0
0.4515	37.40	---	56.85	19.45	N	10.0
0.4955	---	34.81	46.08	11.27	N	10.0
0.5075	38.84	---	56.00	17.16	N	10.0
0.5475	37.37	---	56.00	18.63	N	10.0
0.5515	---	32.79	46.00	13.21	N	10.0
0.6195	30.67	---	56.00	25.33	N	10.0

5.3. Peak Output Power

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(3): 30dBm

TEST CONFIGURATION



TEST PROCEDURE

1. The EUT was tested according to ANSI C63.10 and KDB 558074 D01 requirements.
2. The maximum peak conducted output power may be measured using a broadband peak RF power meter.
3. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.
4. Record the measurement data.

TEST MODE

Refer to the clause 4.2

TEST RESULT

☒ Passed ☐ Not Applicable

TEST DATA

Refer to the appendix report

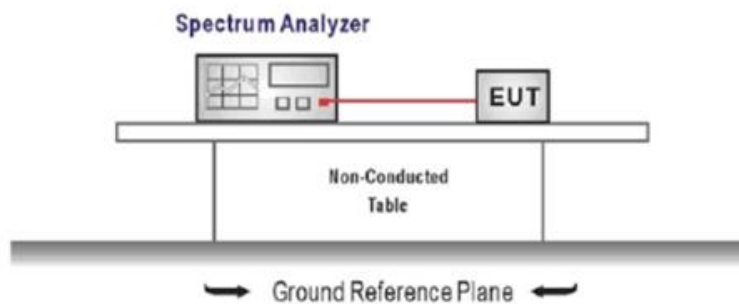
5.4. Power Spectral Density

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (e):

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

TEST CONFIGURATION



TEST PROCEDURE

1. Connect the antenna port(s) to the spectrum analyzer input,
2. Configure the spectrum analyzer as shown below:
Center frequency=DTS channel center frequency
Span =1.5 times the DTS bandwidth
 $RBW = 3 \text{ kHz} \leq RBW \leq 100 \text{ kHz}$, $VBW \geq 3 \times RBW$
Sweep time = auto couple
Detector = peak
Trace mode = max hold
3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter wave form on the spectrum analyzer.
4. Use the peak marker function to determine the maximum amplitude level within the RBW.
5. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

TEST MODE

Refer to the clause 4.2

TEST RESULT

☒ Passed ☐ Not Applicable

TEST DATA

Refer to the appendix report

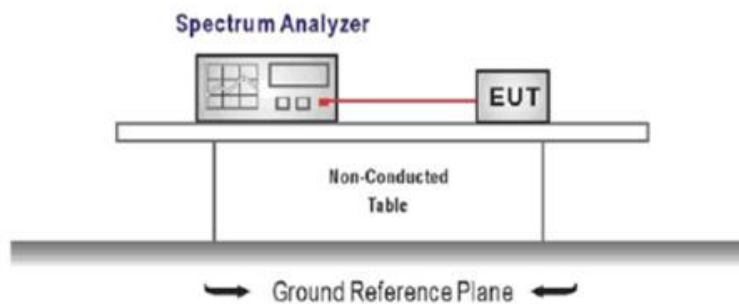
5.5. 6dB bandwidth

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(2):

For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz.

TEST CONFIGURATION



TEST PROCEDURE

1. Connect the antenna port(s) to the spectrum analyzer input.
2. Configure the spectrum analyzer as shown below (enter all losses between the transmitter output and the spectrum analyzer).
Center Frequency = DTS channel center frequency
Span = 2 x DTS bandwidth
RBW = 100 kHz, VBW $\geq 3 \times$ RBW
Sweep time = auto couple
Detector = Peak
Trace mode = max hold
3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission, and record the pertinent measurements.

TEST MODE

Refer to the clause 4.2

TEST RESULT

☒ Passed ☐ Not Applicable

TEST DATA

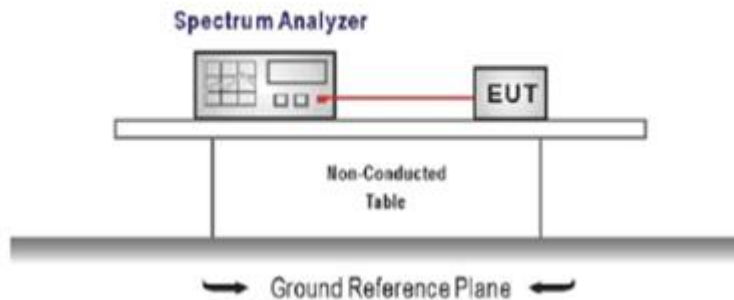
Refer to the appendix report

5.6. 99% Occupied Bandwidth

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

1. Connect the antenna port(s) to the spectrum analyzer input.
2. Configure the spectrum analyzer as shown below (enter all losses between the transmitter output and the spectrum analyzer).
Center Frequency = channel center frequency
Span $\geq 1.5 \times \text{OBW}$
RBW = 1%~5%OBW
VBW $\geq 3 \times \text{RBW}$
Sweep time = auto couple
Detector = Peak
Trace mode = max hold
3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.

TEST MODE

Refer to the clause 4.2

TEST RESULT

☒ Passed ☐ Not Applicable

TEST DATA

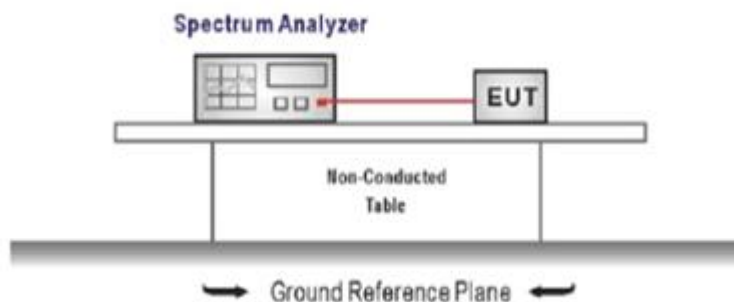
Refer to the appendix report

5.7. Duty Cycle

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

1. The transmitter output was connected to the spectrum analyzer through an attenuator, the path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously
3. Use the following spectrum analyzer settings:
Span=zero span, Frequency=centered channel, RBW= 1 MHz, VBW $\geq$ RBW
Sweep=as necessary to capture the entire dwell time,
Detector function = peak, Trigger mode
4. Measure and record the duty cycle data

TEST MODE

Refer to the clause 4.2

TEST DATA

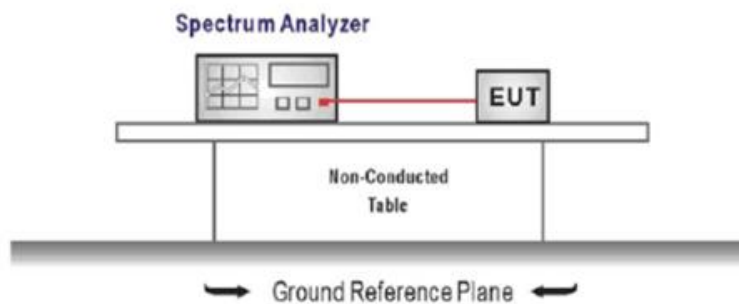
Refer to the appendix report

5.8. Conducted Band edge and Spurious Emission

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.

TEST CONFIGURATION



TEST PROCEDURE

1. Connect the antenna port(s) to the spectrum analyzer input.
2. Establish a reference level by using the following procedure
Center frequency=DTS channel center frequency
The span = 1.5 times the DTS bandwidth.
RBW = 100 kHz, VBW $\geq 3 \times$ RBW
Detector = peak, Sweep time = auto couple, Trace mode = max hold
Allow trace to fully stabilize
Use the peak marker function to determine the maximum PSD level

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

3. Emission level measurement
Set the center frequency and span to encompass frequency range to be measured
RBW = 100 kHz, VBW $\geq 3 \times$ RBW
Detector = peak, Sweep time = auto couple, Trace mode = max hold
Allow trace to fully stabilize
Use the peak marker function to determine the maximum amplitude level.
4. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.
5. Ensure that the amplitude of all unwanted emission outside of the authorized frequency band excluding restricted frequency bands) are attenuated by at least the minimum requirements specified (at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz). Report the three highest emission relative to the limit.

TEST MODE

Refer to the clause 4.2

TEST RESULT

☒ **Passed** ☐ **Not Applicable**

TEST DATA

Refer to the appendix report

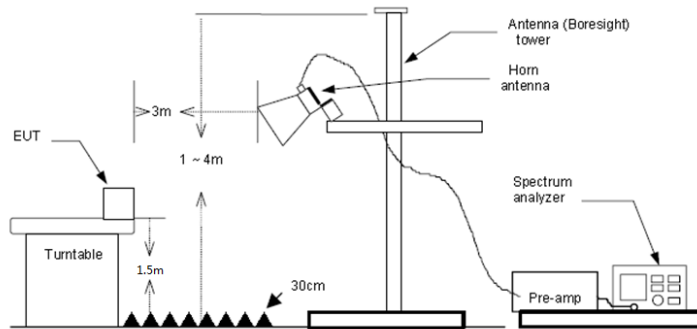
5.9. Radiated Band edge Emission

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d):

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, Radiated Emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the Radiated Emissions limits specified in §15.209(a) (see §15.205(c)).

TEST CONFIGURATION



TEST PROCEDURE

1. The EUT was setup and tested according to ANSI C63.10 .
2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10 on radiated measurement.
5. Use the following spectrum analyzer settings:
 - a) Span shall wide enough to fully capture the emission being measured
 - b) Set RBW=100kHz for <1GHz, VBW=3*RBW, Sweep time=auto, Detector=peak, Trace=max hold
 - c) Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement

For average measurement:

 - VBW=10Hz, When duty cycle is no less than 98 percent
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation, so refer to this clause 5.7 duty cycle.

TEST MODE

Refer to the clause 4.2

TEST RESULT

☒ Passed ☐ Not Applicable

Note:

- 1) Level= Reading + Factor; Factor =Antenna Factor+ Cable Loss- Preamp Factor
- 2) Over Limit = Level– Limit
- 3) Average measurement was not performed if peak level is lower than average limit(54 dBuV/m).

Type		802.11b		Test channel		CH01		Polarity		Horizontal	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	2310.00	40.50	27.86	4.01	37.55	20.00	54.82	74.00	-19.18	Peak	
2	2390.01	41.33	27.54	4.31	37.55	20.00	55.63	74.00	-18.37	Peak	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	2310.00	32.39	27.86	4.01	37.55	20.00	46.71	54.00	-7.29	Average	
2	2390.01	33.20	27.54	4.31	37.55	20.00	47.50	54.00	-6.50	Average	

Type		802.11b		Test channel		CH01		Polarity		Vertical	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	2310.00	41.61	27.86	4.01	37.55	20.00	55.93	74.00	-18.07	Peak	
2	2390.01	41.37	27.54	4.31	37.55	20.00	55.67	74.00	-18.33	Peak	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	2310.00	32.34	27.86	4.01	37.55	20.00	46.66	54.00	-7.34	Average	
2	2390.01	32.27	27.54	4.31	37.55	20.00	46.57	54.00	-7.43	Average	

Type	802.11b		Test channel		CH11		Polarity		Horizontal		
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2483.49	39.74	27.33	4.18	37.64	20.00	53.61	74.00	-20.39	Peak
	2	2500.00	38.91	27.30	4.19	37.67	20.00	52.73	74.00	-21.27	Peak
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2483.49	32.82	27.33	4.18	37.64	20.00	46.69	54.00	-7.31	Average
	2	2500.00	32.82	27.30	4.19	37.67	20.00	46.64	54.00	-7.36	Average

Type	802.11b		Test channel		CH11		Polarity		Vertical		
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2483.49	38.20	27.33	4.18	37.64	20.00	52.07	74.00	-21.93	Peak
	2	2500.00	37.89	27.30	4.19	37.67	20.00	51.71	74.00	-22.29	Peak
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2483.49	32.03	27.33	4.18	37.64	20.00	45.90	54.00	-8.10	Average
	2	2500.00	32.25	27.30	4.19	37.67	20.00	46.07	54.00	-7.93	Average

Type	802.11g		Test channel		CH01		Polarity		Horizontal	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2310.00	41.50	27.86	4.01	37.55	20.00	55.82	74.00	-18.18	Peak
2	2390.01	41.20	27.54	4.31	37.55	20.00	55.50	74.00	-18.50	Peak
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2310.00	29.41	27.86	4.01	37.55	20.00	43.73	54.00	-10.27	Average
2	2390.01	30.77	27.54	4.31	37.55	20.00	45.07	54.00	-8.93	Average

Type	802.11g		Test channel		CH11		Polarity		Horizontal	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2483.49	40.54	27.33	4.18	37.64	20.00	54.41	74.00	-19.59	Peak
2	2500.00	39.70	27.30	4.19	37.67	20.00	53.52	74.00	-20.48	Peak
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2483.49	30.64	27.33	4.18	37.64	20.00	44.51	54.00	-9.49	Average
2	2500.00	30.03	27.30	4.19	37.67	20.00	43.85	54.00	-10.15	Average

Type	802.11g		Test channel		CH11		Polarity		Vertical	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2483.49	39.87	27.33	4.18	37.64	20.00	53.74	74.00	-20.26	Peak
2	2500.00	41.56	27.30	4.19	37.67	20.00	55.38	74.00	-18.62	Peak
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2483.49	29.21	27.33	4.18	37.64	20.00	43.08	54.00	-10.92	Average
2	2500.00	29.19	27.30	4.19	37.67	20.00	43.01	54.00	-10.99	Average

Type	802.11n(HT20)		Test channel	CH01	Polarity		Horizontal			
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2310.00	40.85	27.86	4.01	37.55	20.00	55.17	74.00	-18.83	Peak
2	2390.01	41.49	27.54	4.31	37.55	20.00	55.79	74.00	-18.21	Peak
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2310.00	29.29	27.86	4.01	37.55	20.00	43.61	54.00	-10.39	Average
2	2390.01	31.04	27.54	4.31	37.55	20.00	45.34	54.00	-8.66	Average
Type	802.11n(HT20)		Test channel	CH01	Polarity		Vertical			
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2310.00	40.89	27.86	4.01	37.55	20.00	55.21	74.00	-18.79	Peak
2	2390.01	41.26	27.54	4.31	37.55	20.00	55.56	74.00	-18.44	Peak
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2310.00	29.39	27.86	4.01	37.55	20.00	43.71	54.00	-10.29	Average
2	2390.01	29.23	27.54	4.31	37.55	20.00	43.53	54.00	-10.47	Average

Type	802.11n(HT20)		Test channel	CH11	Polarity		Horizontal			
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2483.49	41.98	27.33	4.18	37.64	20.00	55.85	74.00	-18.15	Peak
2	2500.00	40.66	27.30	4.19	37.67	20.00	54.48	74.00	-19.52	Peak
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2483.49	30.66	27.33	4.18	37.64	20.00	44.53	54.00	-9.47	Average
2	2500.00	29.91	27.30	4.19	37.67	20.00	43.73	54.00	-10.27	Average
Type	802.11n(HT20)		Test channel	CH11	Polarity		Vertical			
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2483.49	40.30	27.33	4.18	37.64	20.00	54.17	74.00	-19.83	Peak
2	2500.00	41.08	27.30	4.19	37.67	20.00	54.90	74.00	-19.10	Peak
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2483.49	29.43	27.33	4.18	37.64	20.00	43.30	54.00	-10.70	Average
2	2500.00	29.34	27.30	4.19	37.67	20.00	43.16	54.00	-10.84	Average

Type	802.11n(HT40)		Test channel		CH03		Polarity		Horizontal	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2310.00	41.08	27.86	4.01	37.55	20.00	55.40	74.00	-18.60	Peak
2	2389.99	44.72	27.54	4.31	37.55	20.00	59.02	74.00	-14.98	Peak
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2310.00	29.77	27.86	4.01	37.55	20.00	44.09	54.00	-9.91	Average
2	2389.99	32.41	27.54	4.31	37.55	20.00	46.71	54.00	-7.29	Average
Type	802.11n(HT40)		Test channel		CH03		Polarity		Vertical	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2310.00	41.60	27.86	4.01	37.55	20.00	55.92	74.00	-18.08	Peak
2	2389.99	40.82	27.54	4.31	37.55	20.00	55.12	74.00	-18.88	Peak
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2310.00	29.84	27.86	4.01	37.55	20.00	44.16	54.00	-9.84	Average
2	2389.99	30.10	27.54	4.31	37.55	20.00	44.40	54.00	-9.60	Average

Type	802.11n(HT40)		Test channel		CH09		Polarity		Horizontal	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2483.50	40.83	27.33	4.18	37.64	20.00	54.70	74.00	-19.30	Peak
2	2500.00	40.87	27.30	4.19	37.67	20.00	54.69	74.00	-19.31	Peak
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2483.50	31.53	27.33	4.18	37.64	20.00	45.40	54.00	-8.60	Average
2	2500.00	30.35	27.30	4.19	37.67	20.00	44.17	54.00	-9.83	Average
Type	802.11n(HT40)		Test channel		CH09		Polarity		Vertical	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2483.50	40.72	27.33	4.18	37.64	20.00	54.59	74.00	-19.41	Peak
2	2500.00	40.55	27.30	4.19	37.67	20.00	54.37	74.00	-19.63	Peak
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2483.50	30.43	27.33	4.18	37.64	20.00	44.30	54.00	-9.70	Average
2	2500.00	29.87	27.30	4.19	37.67	20.00	43.69	54.00	-10.31	Average

5.10. Radiated Spurious Emission

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.209

Frequency	Limit (dBuV/m)	Value
0.009 MHz ~0.49 MHz	2400/F(kHz) @300m	Quasi-peak
0.49 MHz ~ 1.705 MHz	24000/F(kHz) @30m	Quasi-peak
1.705 MHz ~30 MHz	30 @30m	Quasi-peak

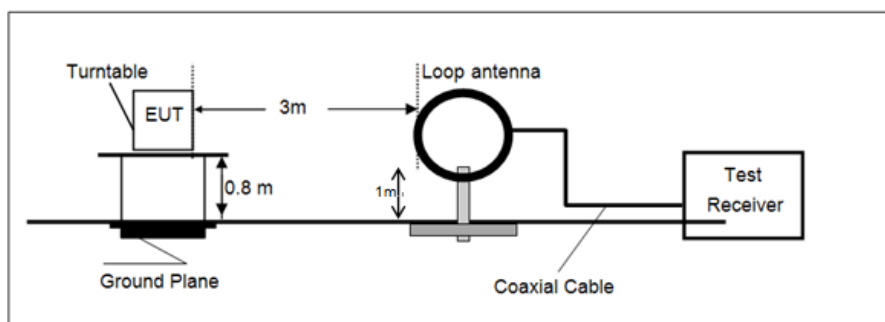
Note: Limit dBuV/m @3m = Limit dBuV/m @300m + $40 \cdot \log(300/3)$ = Limit dBuV/m @300m +80,

Limit dBuV/m @3m = Limit dBuV/m @30m + $40 \cdot \log(30/3)$ = Limit dBuV/m @30m + 40.

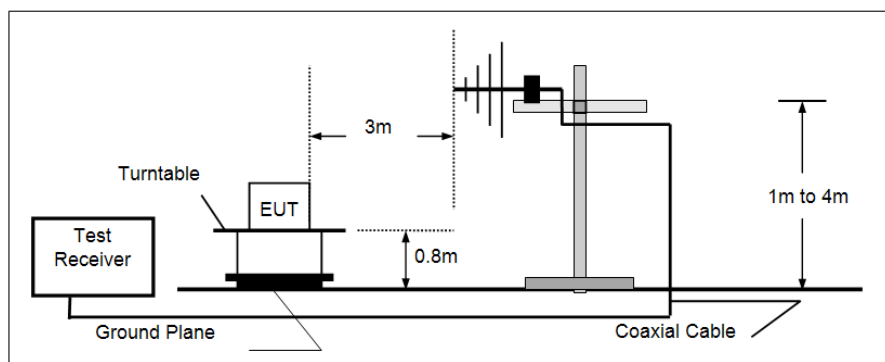
Frequency	Limit (dBuV/m @3m)	Value
30MHz~88MHz	40.00	Quasi-peak
88MHz~216MHz	43.50	Quasi-peak
216MHz~960MHz	46.00	Quasi-peak
960MHz~1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
	74.00	Peak

TEST CONFIGURATION

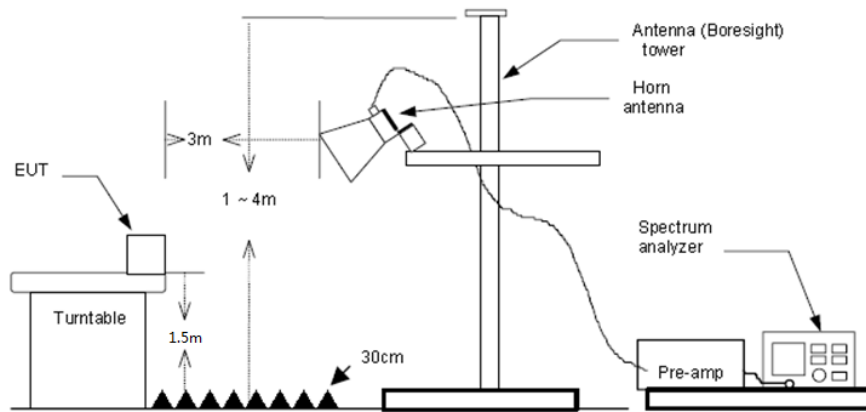
- 9 kHz ~ 30 MHz



- 30 MHz ~ 1 GHz



- Above 1 GHz



TEST PROCEDURE

1. The EUT was setup and tested according to ANSI C63.10 .
2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
5. Set to the maximum power setting and enable the EUT transmit continuously.
6. Use the following spectrum analyzer settings
 - a) Span shall wide enough to fully capture the emission being measured;
 - b) Below 1 GHz:

RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold;

If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
 - c) Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement

For average measurement:

 - VBW=10Hz, When duty cycle is no less than 98 percent
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation, so refer to this clause 5.7 duty cycle.

TEST MODE

Refer to the clause 4.2

TEST RESULT

☒ Passed ☐ Not Applicable

Note:

- 1) Level= Reading + Factor/Transd; Factor/Transd =Antenna Factor+ Cable Loss- Preamp Factor
- 2) Over Limit = Level– Limit
- 3) Average measurement was not performed if peak level is lower than average limit(54 dBuV/m) for above 1GHz.

For 9 kHz ~ 30 MHz

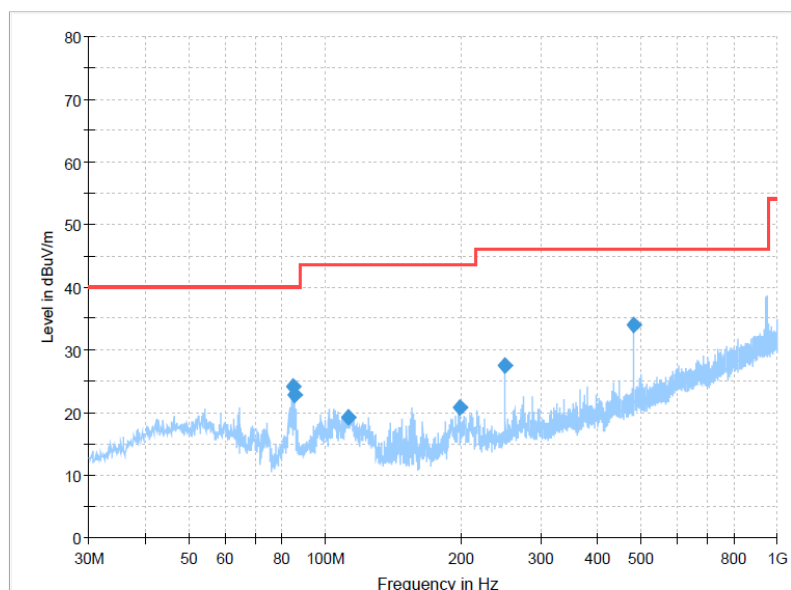
The EUT was pre-scanned this frequency band, found the radiated level 20dB lower than the limit, so don't show data on this report.

For 30 MHz ~ 1000 MHz

Have pre-scan all test channel, found CH06 of 802.11B which it was worst case, so only show the worst case's data on this report.

Polarization:

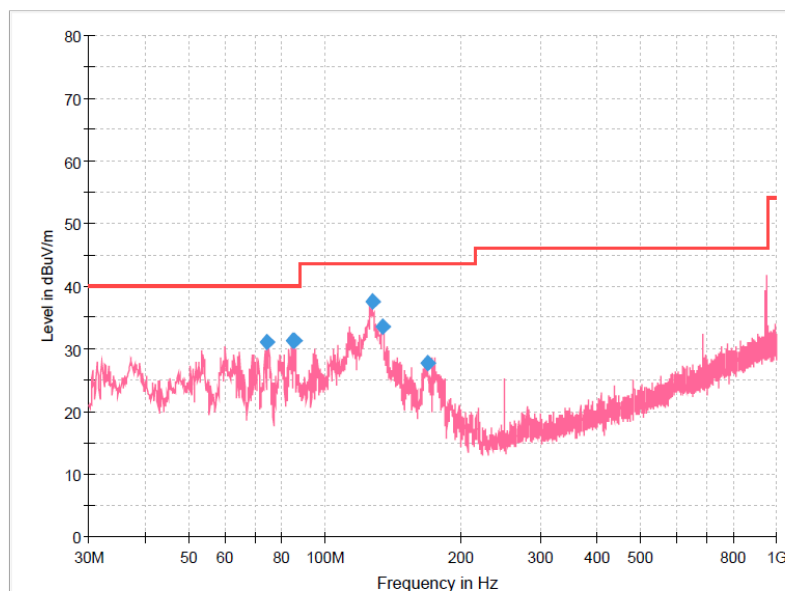
Horizontal

**Final Result**

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
84.8050	24.10	40.00	15.90	300.0	H	169.0	-14.6
85.4113	22.87	40.00	17.13	300.0	H	74.0	-14.4
112.5713	19.13	43.50	24.37	300.0	H	181.0	-11.6
198.5375	20.70	43.50	22.80	100.0	H	135.0	-10.4
249.9475	27.54	46.00	18.46	100.0	H	248.0	-8.9
479.9588	34.01	46.00	11.99	100.0	H	335.0	-2.8

Polarization:

Vertical

**Final Result**

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
74.4988	30.97	40.00	9.03	100.0	V	11.0	-14.9
84.6838	31.26	40.00	8.74	100.0	V	130.0	-14.6
85.4113	31.28	40.00	8.72	100.0	V	257.0	-14.4
127.3638	37.59	43.50	5.91	100.0	V	35.0	-13.7
134.2750	33.60	43.50	9.90	100.0	V	138.0	-14.2
168.8313	27.80	43.50	15.70	100.0	V	0.0	-13.4

For 1 GHz ~ 25 GHz

Type	802.11b		Test channel	CH01		Polarity		Horizontal	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2995.54	54.52	28.50	4.75	37.38	50.39	74.00	-23.61	Peak
2	4983.99	43.08	31.34	6.08	35.81	44.69	74.00	-29.31	Peak
3	7820.82	40.83	36.28	7.83	33.79	51.15	74.00	-22.85	Peak
4	9809.40	34.17	39.32	9.50	33.53	49.46	74.00	-24.54	Peak
Type	802.11b		Test channel	CH01		Polarity		Vertical	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2987.92	52.39	28.50	4.77	37.40	48.26	74.00	-25.74	Peak
2	4821.76	47.35	31.26	6.00	35.86	48.75	74.00	-25.25	Peak
3	4983.99	48.94	31.34	6.08	35.81	50.55	74.00	-23.45	Peak
4	9784.47	34.20	39.30	9.48	33.44	49.54	74.00	-24.46	Peak
Type	802.11b		Test channel	CH06		Polarity		Horizontal	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2987.92	46.98	28.50	4.77	37.40	42.85	74.00	-31.15	Peak
2	4858.72	46.91	31.20	6.33	36.07	48.37	74.00	-25.63	Peak
3	6833.77	39.87	34.34	7.27	34.22	47.26	74.00	-26.74	Peak
4	9784.47	35.49	39.30	9.48	33.44	50.83	74.00	-23.17	Peak
Type	802.11b		Test channel	CH06		Polarity		Vertical	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2995.54	52.65	28.50	4.75	37.38	48.52	74.00	-25.48	Peak
2	3983.75	46.60	29.77	5.60	36.91	45.06	74.00	-28.94	Peak
3	4858.72	42.34	31.20	6.33	36.07	43.80	74.00	-30.20	Peak
4	4996.69	47.67	31.39	6.09	35.75	49.40	74.00	-24.60	Peak
Type	802.11b		Test channel	CH11		Polarity		Horizontal	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2995.54	53.78	28.50	4.75	37.38	49.65	74.00	-24.35	Peak
2	6851.19	39.98	34.40	7.29	34.05	47.62	74.00	-26.38	Peak
3	7820.82	40.22	36.28	7.83	33.79	50.54	74.00	-23.46	Peak
4	9562.85	36.89	38.95	9.34	34.60	50.58	74.00	-23.42	Peak
Type	802.11b		Test channel	CH11		Polarity		Vertical	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	3003.17	52.37	28.51	4.72	37.37	48.23	74.00	-25.77	Peak
2	3993.90	47.28	29.79	5.62	36.97	45.72	74.00	-28.28	Peak
3	4267.18	48.76	30.07	5.77	36.54	48.06	74.00	-25.94	Peak
4	4996.69	48.93	31.39	6.09	35.75	50.66	74.00	-23.34	Peak

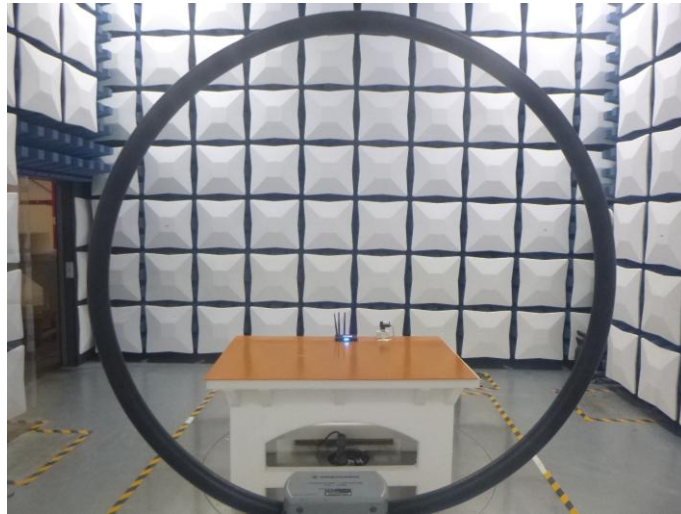
Type	802.11g	Test channel	CH01	Polarity	Horizontal				
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2987.92	47.63	28.50	4.77	37.40	43.50	74.00	-30.50	Peak
2	4821.76	44.38	31.26	6.00	35.86	45.78	74.00	-28.22	Peak
3	6974.36	39.77	35.00	7.34	34.15	47.96	74.00	-26.04	Peak
4	9759.59	34.45	39.30	9.46	33.66	49.55	74.00	-24.45	Peak
Type	802.11g	Test channel	CH01	Polarity	Vertical				
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2995.54	54.63	28.50	4.75	37.38	50.50	74.00	-23.50	Peak
2	4267.18	49.44	30.07	5.77	36.54	48.74	74.00	-25.26	Peak
3	4821.76	49.90	31.26	6.00	35.86	51.30	74.00	-22.70	Peak
4	7245.81	41.70	36.00	7.61	34.39	50.92	74.00	-23.08	Peak
Type	802.11g	Test channel	CH06	Polarity	Horizontal				
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2987.92	47.96	28.50	4.77	37.40	43.83	74.00	-30.17	Peak
2	4871.10	47.96	31.20	6.30	36.04	49.42	74.00	-24.58	Peak
3	6956.63	39.18	34.93	7.35	34.16	47.30	74.00	-26.70	Peak
4	9809.40	33.73	39.32	9.50	33.53	49.02	74.00	-24.98	Peak
Type	802.11g	Test channel	CH06	Polarity	Vertical				
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2987.92	53.55	28.50	4.77	37.40	49.42	74.00	-24.58	Peak
2	4871.10	49.58	31.20	6.30	36.04	51.04	74.00	-22.96	Peak
3	6974.36	41.44	35.00	7.34	34.15	49.63	74.00	-24.37	Peak
4	7301.36	40.99	36.10	7.76	34.26	50.59	74.00	-23.41	Peak
Type	802.11g	Test channel	CH11	Polarity	Horizontal				
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2995.54	46.34	28.50	4.75	37.38	42.21	74.00	-31.79	Peak
2	3993.90	45.52	29.79	5.62	36.97	43.96	74.00	-30.04	Peak
3	4933.50	49.09	31.20	6.05	35.79	50.55	74.00	-23.45	Peak
4	9809.40	34.17	39.32	9.50	33.53	49.46	74.00	-24.54	Peak
Type	802.11g	Test channel	CH11	Polarity	Vertical				
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2995.54	53.55	28.50	4.75	37.38	49.42	74.00	-24.58	Peak
2	4996.69	46.78	31.39	6.09	35.75	48.51	74.00	-25.49	Peak
3	6974.36	42.58	35.00	7.34	34.15	50.77	74.00	-23.23	Peak
4	9784.47	34.53	39.30	9.48	33.44	49.87	74.00	-24.13	Peak

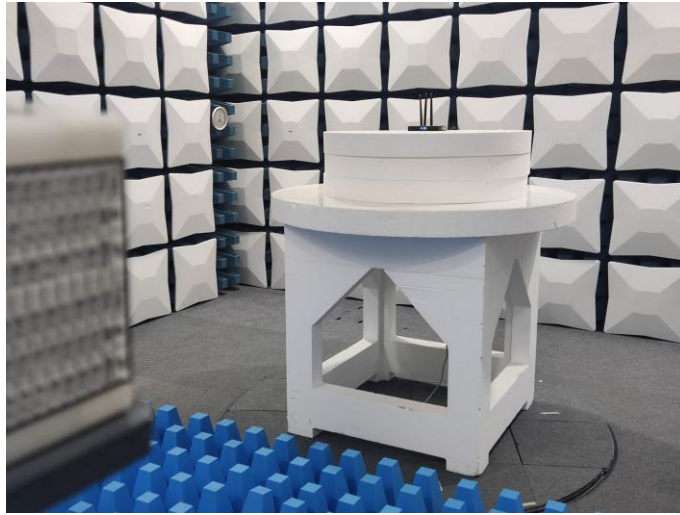
Type	802.11n(HT20)	Test channel	CH01	Polarity	Horizontal																																																							
<table><tr><th>Mark</th><th>Frequency MHz</th><th>Reading dBuV/m</th><th>Antenna dB</th><th>Cable dB</th><th>Preamp dB</th><th>Level dBuV/m</th><th>Limit dBuV/m</th><th>Over limit</th><th>Remark</th></tr><tr><td>1</td><td>2995.54</td><td>49.79</td><td>28.50</td><td>4.75</td><td>37.38</td><td>45.66</td><td>74.00</td><td>-28.34</td><td>Peak</td></tr><tr><td>2</td><td>4821.76</td><td>48.19</td><td>31.26</td><td>6.00</td><td>35.86</td><td>49.59</td><td>74.00</td><td>-24.41</td><td>Peak</td></tr><tr><td>3</td><td>6992.14</td><td>39.17</td><td>35.07</td><td>7.34</td><td>34.22</td><td>47.36</td><td>74.00</td><td>-26.64</td><td>Peak</td></tr><tr><td>4</td><td>10860.83</td><td>34.87</td><td>40.42</td><td>9.93</td><td>35.94</td><td>49.28</td><td>74.00</td><td>-24.72</td><td>Peak</td></tr></table>											Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	1	2995.54	49.79	28.50	4.75	37.38	45.66	74.00	-28.34	Peak	2	4821.76	48.19	31.26	6.00	35.86	49.59	74.00	-24.41	Peak	3	6992.14	39.17	35.07	7.34	34.22	47.36	74.00	-26.64	Peak	4	10860.83	34.87	40.42	9.93	35.94	49.28	74.00	-24.72	Peak
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark																																																			
1	2995.54	49.79	28.50	4.75	37.38	45.66	74.00	-28.34	Peak																																																			
2	4821.76	48.19	31.26	6.00	35.86	49.59	74.00	-24.41	Peak																																																			
3	6992.14	39.17	35.07	7.34	34.22	47.36	74.00	-26.64	Peak																																																			
4	10860.83	34.87	40.42	9.93	35.94	49.28	74.00	-24.72	Peak																																																			
Type	802.11n(HT20)	Test channel	CH01	Polarity	Vertical																																																							
<table><tr><th>Mark</th><th>Frequency MHz</th><th>Reading dBuV/m</th><th>Antenna dB</th><th>Cable dB</th><th>Preamp dB</th><th>Level dBuV/m</th><th>Limit dBuV/m</th><th>Over limit</th><th>Remark</th></tr><tr><td>1</td><td>2987.92</td><td>53.35</td><td>28.50</td><td>4.77</td><td>37.40</td><td>49.22</td><td>74.00</td><td>-24.78</td><td>Peak</td></tr><tr><td>2</td><td>4821.76</td><td>48.81</td><td>31.26</td><td>6.00</td><td>35.86</td><td>50.21</td><td>74.00</td><td>-23.79</td><td>Peak</td></tr><tr><td>3</td><td>6992.14</td><td>41.82</td><td>35.07</td><td>7.34</td><td>34.22</td><td>50.01</td><td>74.00</td><td>-23.99</td><td>Peak</td></tr><tr><td>4</td><td>9859.47</td><td>35.66</td><td>39.38</td><td>9.50</td><td>34.73</td><td>49.81</td><td>74.00</td><td>-24.19</td><td>Peak</td></tr></table>											Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	1	2987.92	53.35	28.50	4.77	37.40	49.22	74.00	-24.78	Peak	2	4821.76	48.81	31.26	6.00	35.86	50.21	74.00	-23.79	Peak	3	6992.14	41.82	35.07	7.34	34.22	50.01	74.00	-23.99	Peak	4	9859.47	35.66	39.38	9.50	34.73	49.81	74.00	-24.19	Peak
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark																																																			
1	2987.92	53.35	28.50	4.77	37.40	49.22	74.00	-24.78	Peak																																																			
2	4821.76	48.81	31.26	6.00	35.86	50.21	74.00	-23.79	Peak																																																			
3	6992.14	41.82	35.07	7.34	34.22	50.01	74.00	-23.99	Peak																																																			
4	9859.47	35.66	39.38	9.50	34.73	49.81	74.00	-24.19	Peak																																																			
Type	802.11n(HT20)	Test channel	CH06	Polarity	Horizontal																																																							
<table><tr><th>Mark</th><th>Frequency MHz</th><th>Reading dBuV/m</th><th>Antenna dB</th><th>Cable dB</th><th>Preamp dB</th><th>Level dBuV/m</th><th>Limit dBuV/m</th><th>Over limit</th><th>Remark</th></tr><tr><td>1</td><td>2987.92</td><td>49.11</td><td>28.50</td><td>4.77</td><td>37.40</td><td>44.98</td><td>74.00</td><td>-29.02</td><td>Peak</td></tr><tr><td>2</td><td>4883.52</td><td>47.21</td><td>31.20</td><td>6.21</td><td>35.97</td><td>48.65</td><td>74.00</td><td>-25.35</td><td>Peak</td></tr><tr><td>3</td><td>7009.96</td><td>39.70</td><td>35.14</td><td>7.35</td><td>34.24</td><td>47.95</td><td>74.00</td><td>-26.05</td><td>Peak</td></tr><tr><td>4</td><td>9784.47</td><td>33.77</td><td>39.30</td><td>9.48</td><td>33.44</td><td>49.11</td><td>74.00</td><td>-24.89</td><td>Peak</td></tr></table>											Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	1	2987.92	49.11	28.50	4.77	37.40	44.98	74.00	-29.02	Peak	2	4883.52	47.21	31.20	6.21	35.97	48.65	74.00	-25.35	Peak	3	7009.96	39.70	35.14	7.35	34.24	47.95	74.00	-26.05	Peak	4	9784.47	33.77	39.30	9.48	33.44	49.11	74.00	-24.89	Peak
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark																																																			
1	2987.92	49.11	28.50	4.77	37.40	44.98	74.00	-29.02	Peak																																																			
2	4883.52	47.21	31.20	6.21	35.97	48.65	74.00	-25.35	Peak																																																			
3	7009.96	39.70	35.14	7.35	34.24	47.95	74.00	-26.05	Peak																																																			
4	9784.47	33.77	39.30	9.48	33.44	49.11	74.00	-24.89	Peak																																																			
Type	802.11n(HT20)	Test channel	CH06	Polarity	Vertical																																																							
<table><tr><th>Mark</th><th>Frequency MHz</th><th>Reading dBuV/m</th><th>Antenna dB</th><th>Cable dB</th><th>Preamp dB</th><th>Level dBuV/m</th><th>Limit dBuV/m</th><th>Over limit</th><th>Remark</th></tr><tr><td>1</td><td>2987.92</td><td>53.71</td><td>28.50</td><td>4.77</td><td>37.40</td><td>49.58</td><td>74.00</td><td>-24.42</td><td>Peak</td></tr><tr><td>2</td><td>3993.90</td><td>48.27</td><td>29.79</td><td>5.62</td><td>36.97</td><td>46.71</td><td>74.00</td><td>-27.29</td><td>Peak</td></tr><tr><td>3</td><td>4883.52</td><td>49.47</td><td>31.20</td><td>6.21</td><td>35.97</td><td>50.91</td><td>74.00</td><td>-23.09</td><td>Peak</td></tr><tr><td>4</td><td>6974.36</td><td>42.57</td><td>35.00</td><td>7.34</td><td>34.15</td><td>50.76</td><td>74.00</td><td>-23.24</td><td>Peak</td></tr></table>											Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	1	2987.92	53.71	28.50	4.77	37.40	49.58	74.00	-24.42	Peak	2	3993.90	48.27	29.79	5.62	36.97	46.71	74.00	-27.29	Peak	3	4883.52	49.47	31.20	6.21	35.97	50.91	74.00	-23.09	Peak	4	6974.36	42.57	35.00	7.34	34.15	50.76	74.00	-23.24	Peak
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark																																																			
1	2987.92	53.71	28.50	4.77	37.40	49.58	74.00	-24.42	Peak																																																			
2	3993.90	48.27	29.79	5.62	36.97	46.71	74.00	-27.29	Peak																																																			
3	4883.52	49.47	31.20	6.21	35.97	50.91	74.00	-23.09	Peak																																																			
4	6974.36	42.57	35.00	7.34	34.15	50.76	74.00	-23.24	Peak																																																			
Type	802.11n(HT20)	Test channel	CH11	Polarity	Horizontal																																																							
<table><tr><th>Mark</th><th>Frequency MHz</th><th>Reading dBuV/m</th><th>Antenna dB</th><th>Cable dB</th><th>Preamp dB</th><th>Level dBuV/m</th><th>Limit dBuV/m</th><th>Over limit</th><th>Remark</th></tr><tr><td>1</td><td>2987.92</td><td>47.71</td><td>28.50</td><td>4.77</td><td>37.40</td><td>43.58</td><td>74.00</td><td>-30.42</td><td>Peak</td></tr><tr><td>2</td><td>4996.69</td><td>40.47</td><td>31.39</td><td>6.09</td><td>35.75</td><td>42.20</td><td>74.00</td><td>-31.80</td><td>Peak</td></tr><tr><td>3</td><td>6992.14</td><td>39.11</td><td>35.07</td><td>7.34</td><td>34.22</td><td>47.30</td><td>74.00</td><td>-26.70</td><td>Peak</td></tr><tr><td>4</td><td>9228.06</td><td>36.00</td><td>38.97</td><td>9.28</td><td>34.15</td><td>50.10</td><td>74.00</td><td>-23.90</td><td>Peak</td></tr></table>											Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	1	2987.92	47.71	28.50	4.77	37.40	43.58	74.00	-30.42	Peak	2	4996.69	40.47	31.39	6.09	35.75	42.20	74.00	-31.80	Peak	3	6992.14	39.11	35.07	7.34	34.22	47.30	74.00	-26.70	Peak	4	9228.06	36.00	38.97	9.28	34.15	50.10	74.00	-23.90	Peak
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark																																																			
1	2987.92	47.71	28.50	4.77	37.40	43.58	74.00	-30.42	Peak																																																			
2	4996.69	40.47	31.39	6.09	35.75	42.20	74.00	-31.80	Peak																																																			
3	6992.14	39.11	35.07	7.34	34.22	47.30	74.00	-26.70	Peak																																																			
4	9228.06	36.00	38.97	9.28	34.15	50.10	74.00	-23.90	Peak																																																			
Type	802.11n(HT20)	Test channel	CH11	Polarity	Vertical																																																							
<table><tr><th>Mark</th><th>Frequency MHz</th><th>Reading dBuV/m</th><th>Antenna dB</th><th>Cable dB</th><th>Preamp dB</th><th>Level dBuV/m</th><th>Limit dBuV/m</th><th>Over limit</th><th>Remark</th></tr><tr><td>1</td><td>2987.92</td><td>53.57</td><td>28.50</td><td>4.77</td><td>37.40</td><td>49.44</td><td>74.00</td><td>-24.56</td><td>Peak</td></tr><tr><td>2</td><td>3993.90</td><td>49.86</td><td>29.79</td><td>5.62</td><td>36.97</td><td>48.30</td><td>74.00</td><td>-25.70</td><td>Peak</td></tr><tr><td>3</td><td>4920.96</td><td>48.92</td><td>31.20</td><td>6.06</td><td>35.82</td><td>50.36</td><td>74.00</td><td>-23.64</td><td>Peak</td></tr><tr><td>4</td><td>6974.36</td><td>42.17</td><td>35.00</td><td>7.34</td><td>34.15</td><td>50.36</td><td>74.00</td><td>-23.64</td><td>Peak</td></tr></table>											Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	1	2987.92	53.57	28.50	4.77	37.40	49.44	74.00	-24.56	Peak	2	3993.90	49.86	29.79	5.62	36.97	48.30	74.00	-25.70	Peak	3	4920.96	48.92	31.20	6.06	35.82	50.36	74.00	-23.64	Peak	4	6974.36	42.17	35.00	7.34	34.15	50.36	74.00	-23.64	Peak
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark																																																			
1	2987.92	53.57	28.50	4.77	37.40	49.44	74.00	-24.56	Peak																																																			
2	3993.90	49.86	29.79	5.62	36.97	48.30	74.00	-25.70	Peak																																																			
3	4920.96	48.92	31.20	6.06	35.82	50.36	74.00	-23.64	Peak																																																			
4	6974.36	42.17	35.00	7.34	34.15	50.36	74.00	-23.64	Peak																																																			

Type	802.11n(HT40)	Test channel	CH03	Polarity	Horizontal																																																							
<table><tr><th>Mark</th><th>Frequency MHz</th><th>Reading dBuV/m</th><th>Antenna dB</th><th>Cable dB</th><th>Preamp dB</th><th>Level dBuV/m</th><th>Limit dBuV/m</th><th>Over limit</th><th>Remark</th></tr><tr><td>1</td><td>2987.92</td><td>45.34</td><td>28.50</td><td>4.77</td><td>37.40</td><td>41.21</td><td>74.00</td><td>-32.79</td><td>Peak</td></tr><tr><td>2</td><td>4846.37</td><td>44.62</td><td>31.21</td><td>6.21</td><td>35.99</td><td>46.05</td><td>74.00</td><td>-27.95</td><td>Peak</td></tr><tr><td>3</td><td>7264.28</td><td>38.29</td><td>36.03</td><td>7.66</td><td>34.35</td><td>47.63</td><td>74.00</td><td>-26.37</td><td>Peak</td></tr><tr><td>4</td><td>9759.59</td><td>34.69</td><td>39.30</td><td>9.46</td><td>33.66</td><td>49.79</td><td>74.00</td><td>-24.21</td><td>Peak</td></tr></table>											Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	1	2987.92	45.34	28.50	4.77	37.40	41.21	74.00	-32.79	Peak	2	4846.37	44.62	31.21	6.21	35.99	46.05	74.00	-27.95	Peak	3	7264.28	38.29	36.03	7.66	34.35	47.63	74.00	-26.37	Peak	4	9759.59	34.69	39.30	9.46	33.66	49.79	74.00	-24.21	Peak
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark																																																			
1	2987.92	45.34	28.50	4.77	37.40	41.21	74.00	-32.79	Peak																																																			
2	4846.37	44.62	31.21	6.21	35.99	46.05	74.00	-27.95	Peak																																																			
3	7264.28	38.29	36.03	7.66	34.35	47.63	74.00	-26.37	Peak																																																			
4	9759.59	34.69	39.30	9.46	33.66	49.79	74.00	-24.21	Peak																																																			
Type	802.11n(HT40)	Test channel	CH03	Polarity	Vertical																																																							
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Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark																																																			
1	2995.54	50.55	28.50	4.75	37.38	46.42	74.00	-27.58	Peak																																																			
2	4846.37	49.01	31.21	6.21	35.99	50.44	74.00	-23.56	Peak																																																			
3	6992.14	42.00	35.07	7.34	34.22	50.19	74.00	-23.81	Peak																																																			
4	9784.47	34.31	39.30	9.48	33.44	49.65	74.00	-24.35	Peak																																																			
Type	802.11n(HT40)	Test channel	CH06	Polarity	Horizontal																																																							
<table><tr><th>Mark</th><th>Frequency MHz</th><th>Reading dBuV/m</th><th>Antenna dB</th><th>Cable dB</th><th>Preamp dB</th><th>Level dBuV/m</th><th>Limit dBuV/m</th><th>Over limit</th><th>Remark</th></tr><tr><td>1</td><td>2987.92</td><td>47.77</td><td>28.50</td><td>4.77</td><td>37.40</td><td>43.64</td><td>74.00</td><td>-30.36</td><td>Peak</td></tr><tr><td>2</td><td>4871.10</td><td>45.77</td><td>31.20</td><td>6.30</td><td>36.04</td><td>47.23</td><td>74.00</td><td>-26.77</td><td>Peak</td></tr><tr><td>3</td><td>6868.65</td><td>38.82</td><td>34.44</td><td>7.34</td><td>34.20</td><td>46.40</td><td>74.00</td><td>-27.60</td><td>Peak</td></tr><tr><td>4</td><td>10295.50</td><td>35.03</td><td>39.59</td><td>9.65</td><td>36.11</td><td>48.16</td><td>74.00</td><td>-25.84</td><td>Peak</td></tr></table>											Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	1	2987.92	47.77	28.50	4.77	37.40	43.64	74.00	-30.36	Peak	2	4871.10	45.77	31.20	6.30	36.04	47.23	74.00	-26.77	Peak	3	6868.65	38.82	34.44	7.34	34.20	46.40	74.00	-27.60	Peak	4	10295.50	35.03	39.59	9.65	36.11	48.16	74.00	-25.84	Peak
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark																																																			
1	2987.92	47.77	28.50	4.77	37.40	43.64	74.00	-30.36	Peak																																																			
2	4871.10	45.77	31.20	6.30	36.04	47.23	74.00	-26.77	Peak																																																			
3	6868.65	38.82	34.44	7.34	34.20	46.40	74.00	-27.60	Peak																																																			
4	10295.50	35.03	39.59	9.65	36.11	48.16	74.00	-25.84	Peak																																																			
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<table><tr><th>Mark</th><th>Frequency MHz</th><th>Reading dBuV/m</th><th>Antenna dB</th><th>Cable dB</th><th>Preamp dB</th><th>Level dBuV/m</th><th>Limit dBuV/m</th><th>Over limit</th><th>Remark</th></tr><tr><td>1</td><td>2995.54</td><td>50.05</td><td>28.50</td><td>4.75</td><td>37.38</td><td>45.92</td><td>74.00</td><td>-28.08</td><td>Peak</td></tr><tr><td>2</td><td>4871.10</td><td>47.47</td><td>31.20</td><td>6.30</td><td>36.04</td><td>48.93</td><td>74.00</td><td>-25.07</td><td>Peak</td></tr><tr><td>3</td><td>6992.14</td><td>41.83</td><td>35.07</td><td>7.34</td><td>34.22</td><td>50.02</td><td>74.00</td><td>-23.98</td><td>Peak</td></tr><tr><td>4</td><td>9834.41</td><td>35.17</td><td>39.37</td><td>9.50</td><td>34.13</td><td>49.91</td><td>74.00</td><td>-24.09</td><td>Peak</td></tr></table>											Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	1	2995.54	50.05	28.50	4.75	37.38	45.92	74.00	-28.08	Peak	2	4871.10	47.47	31.20	6.30	36.04	48.93	74.00	-25.07	Peak	3	6992.14	41.83	35.07	7.34	34.22	50.02	74.00	-23.98	Peak	4	9834.41	35.17	39.37	9.50	34.13	49.91	74.00	-24.09	Peak
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark																																																			
1	2995.54	50.05	28.50	4.75	37.38	45.92	74.00	-28.08	Peak																																																			
2	4871.10	47.47	31.20	6.30	36.04	48.93	74.00	-25.07	Peak																																																			
3	6992.14	41.83	35.07	7.34	34.22	50.02	74.00	-23.98	Peak																																																			
4	9834.41	35.17	39.37	9.50	34.13	49.91	74.00	-24.09	Peak																																																			
Type	802.11n(HT40)	Test channel	CH09	Polarity	Horizontal																																																							
<table><tr><th>Mark</th><th>Frequency MHz</th><th>Reading dBuV/m</th><th>Antenna dB</th><th>Cable dB</th><th>Preamp dB</th><th>Level dBuV/m</th><th>Limit dBuV/m</th><th>Over limit</th><th>Remark</th></tr><tr><td>1</td><td>2987.92</td><td>51.00</td><td>28.50</td><td>4.77</td><td>37.40</td><td>46.87</td><td>74.00</td><td>-27.13</td><td>Peak</td></tr><tr><td>2</td><td>4933.50</td><td>46.09</td><td>31.20</td><td>6.05</td><td>35.79</td><td>47.55</td><td>74.00</td><td>-26.45</td><td>Peak</td></tr><tr><td>3</td><td>6851.19</td><td>40.14</td><td>34.40</td><td>7.29</td><td>34.05</td><td>47.78</td><td>74.00</td><td>-26.22</td><td>Peak</td></tr><tr><td>4</td><td>9784.47</td><td>34.26</td><td>39.30</td><td>9.48</td><td>33.44</td><td>49.60</td><td>74.00</td><td>-24.40</td><td>Peak</td></tr></table>											Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	1	2987.92	51.00	28.50	4.77	37.40	46.87	74.00	-27.13	Peak	2	4933.50	46.09	31.20	6.05	35.79	47.55	74.00	-26.45	Peak	3	6851.19	40.14	34.40	7.29	34.05	47.78	74.00	-26.22	Peak	4	9784.47	34.26	39.30	9.48	33.44	49.60	74.00	-24.40	Peak
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark																																																			
1	2987.92	51.00	28.50	4.77	37.40	46.87	74.00	-27.13	Peak																																																			
2	4933.50	46.09	31.20	6.05	35.79	47.55	74.00	-26.45	Peak																																																			
3	6851.19	40.14	34.40	7.29	34.05	47.78	74.00	-26.22	Peak																																																			
4	9784.47	34.26	39.30	9.48	33.44	49.60	74.00	-24.40	Peak																																																			
Type	802.11n(HT40)	Test channel	CH09	Polarity	Vertical																																																							
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Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark																																																			
1	3993.90	47.11	29.79	5.62	36.97	45.55	74.00	-28.45	Peak																																																			
2	4245.51	46.08	29.99	5.78	36.62	45.23	74.00	-28.77	Peak																																																			
3	4920.96	46.93	31.20	6.06	35.82	48.37	74.00	-25.63	Peak																																																			
4	9809.40	34.65	39.32	9.50	33.53	49.94	74.00	-24.06	Peak																																																			

6. TEST SETUP PHOTOS

Radiated Emission





AC Conducted Emission



7. EXTERNAL AND INTERNAL PHOTOS

Refer to the test report No.: CHTEW23110070

8. APPENDIX REPORT

APPENDIX REPORT

Project No.	SHT2306080101EW	Radio Specification	WIFI 2.4G
Test sample No.	YPHT23060801006	Model No.	F8926-GW-02
Start test date	2023-09-08	Finish date	2023-11-23
Temperature	24.6℃	Humidity	48%
Test Engineer	<i>Casper Chen</i>	Auditor	<i>Xiaodong Zhao</i>

Appendix clause	Test item	Result
A	Conducted Peak Output Power	PASS
B	Power Spectral Density	PASS
C	6 dB Bandwidth	PASS
D	99% Occupied Bandwidth	PASS
E	Duty Cycle	PASS
F	Band edge and Spurious Emissions (conducted)	PASS

Appendix A: Conducted Peak Output Power

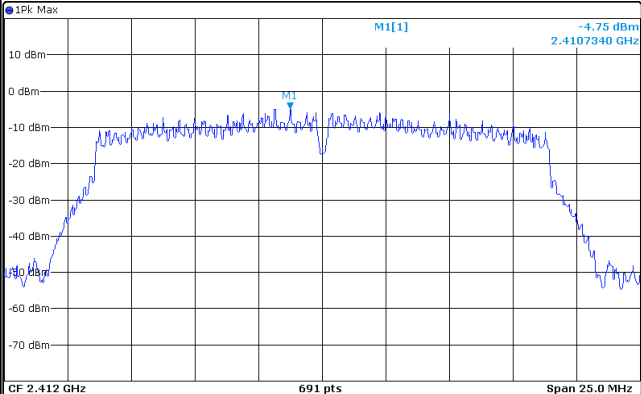
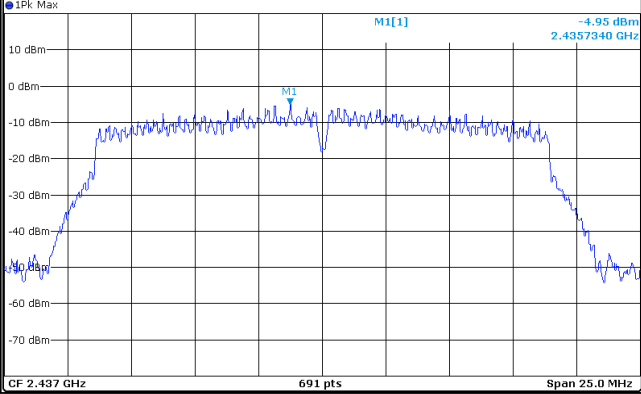
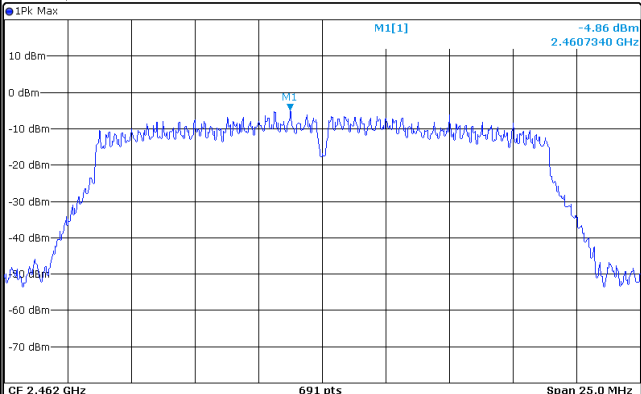
Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
802.11b	01	18.27	16.29	≤ 30.00	Pass
	06	18.12	16.08		
	11	18.22	16.09		
802.11g	01	18.24	16.09	≤ 30.00	Pass
	06	18.32	15.48		
	11	18.25	16.32		
802.11n (HT20)	01	18.05	16.11	≤ 30.00	Pass
	06	18.10	15.54		
	11	18.08	16.13		
802.11n(HT40)	03	18.38	15.62	≤ 30.00	Pass
	06	18.24	16.03		
	09	18.17	16.20		

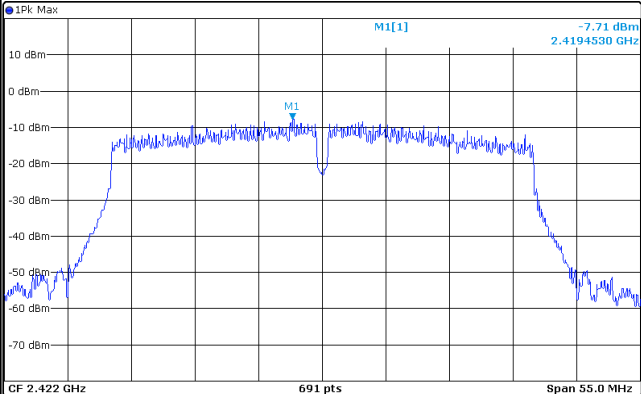
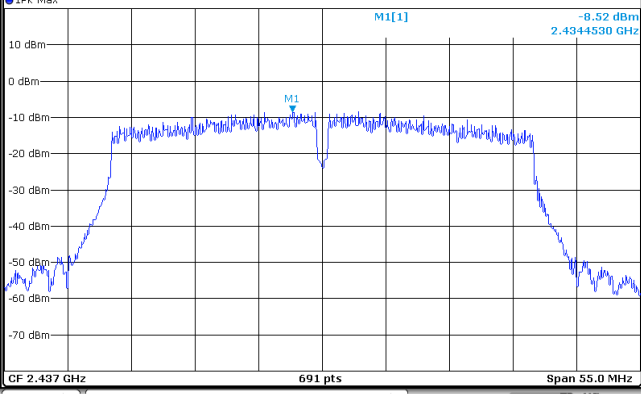
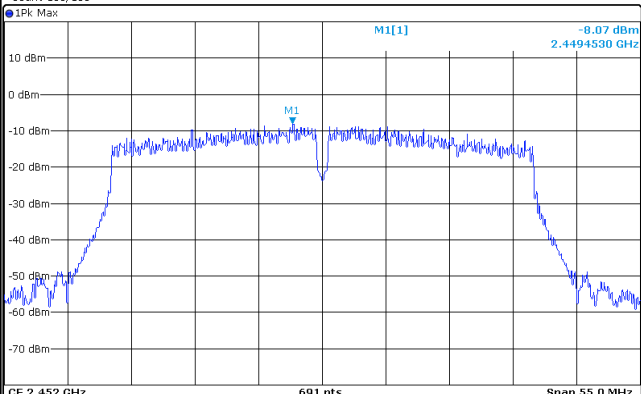
Appendix B: Power Spectral Density

Type	Channel	Power Spectral Density (dBm/30KHz)	Limit (dBm/3KHz)	Result
802.11b	01	4.46	≤8.00	Pass
	06	4.37		
	11	4.40		
802.11g	01	-5.36	≤8.00	Pass
	06	-4.76		
	11	-5.36		
802.11n(HT20)	01	-4.75	≤8.00	Pass
	06	-4.95		
	11	-4.82		
802.11n(HT40)	03	-7.71	≤8.00	Pass
	06	-8.52		
	09	-8.07		

Type:		802.11 b
CH01	Spectrum Ref Level 20.00 dBm Att 30 dB Count 100/100 Offset 0.50 dB SWT 126.4 μs RBW 30 kHz VBW 100 kHz Mode Auto FFT 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1 M1[1] 4.46 dBm 2.4112590 GHz CF 2.412 GHz 691 pts Span 16.0 MHz Date: 21 SEP 2023 09:44:42	
CH06	Spectrum Ref Level 20.00 dBm Att 30 dB Count 100/100 Offset 0.50 dB SWT 126.4 μs RBW 30 kHz VBW 100 kHz Mode Auto FFT 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1 M1[1] 4.37 dBm 2.4362590 GHz CF 2.437 GHz 691 pts Span 16.0 MHz Date: 21 SEP 2023 09:46:26	
CH11	Spectrum Ref Level 20.00 dBm Att 30 dB Count 100/100 Offset 0.50 dB SWT 126.4 μs RBW 30 kHz VBW 100 kHz Mode Auto FFT 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1 M1[1] 4.40 dBm 2.4627640 GHz CF 2.462 GHz 691 pts Span 16.0 MHz Date: 21 SEP 2023 09:47:40	

Type:		802.11 g
CH01	Spectrum Ref Level 20.00 dBm Att 30 dB Count 100/100 Offset 0.50 dB SWT 189.6 μs RBW 30 kHz VBW 100 kHz Mode Auto FFT 1Pk Max M1 M1[1] -5.36 dBm 2.4113850 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.412 GHz 691 pts Span 25.0 MHz Date: 21 SEP 2023 10:14:40	
CH06	Spectrum Ref Level 20.00 dBm Att 30 dB Count 100/100 Offset 0.50 dB SWT 189.6 μs RBW 30 kHz VBW 100 kHz Mode Auto FFT 1Pk Max M1 M1[1] -4.76 dBm 2.4357340 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.437 GHz 691 pts Span 25.0 MHz Date: 21 SEP 2023 09:57:03	
CH11	Spectrum Ref Level 20.00 dBm Att 30 dB Count 100/100 Offset 0.50 dB SWT 189.6 μs RBW 30 kHz VBW 100 kHz Mode Auto FFT 1Pk Max M1 M1[1] -5.36 dBm 2.4607340 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.462 GHz 691 pts Span 25.0 MHz Date: 21 SEP 2023 09:59:33	

Type:		802.11n(HT20)
CH01	Spectrum Ref Level 20.00 dBm Att 30 dB Count 100/100 Offset 0.50 dB SWT 189.6 μs RBW 30 kHz VBW 100 kHz Mode Auto FFT 1Pk Max M1[1] -4.75 dBm 2.4107340 GHz  CF 2.412 GHz691 ptsSpan 25.0 MHz Date: 21 SEP 2023 10:03:20	
CH06	Spectrum Ref Level 20.00 dBm Att 30 dB Count 100/100 Offset 0.50 dB SWT 189.6 μs RBW 30 kHz VBW 100 kHz Mode Auto FFT 1Pk Max M1[1] -4.95 dBm 2.4357340 GHz  CF 2.437 GHz691 ptsSpan 25.0 MHz Date: 21 SEP 2023 10:05:12	
CH11	Spectrum Ref Level 20.00 dBm Att 30 dB Count 100/100 Offset 0.50 dB SWT 189.6 μs RBW 30 kHz VBW 100 kHz Mode Auto FFT 1Pk Max M1[1] -4.86 dBm 2.4607340 GHz  CF 2.462 GHz691 ptsSpan 25.0 MHz Date: 21 SEP 2023 10:06:28	

Type:		802.11n(HT40)
CH03	Spectrum Ref Level 20.00 dBm Att 30 dB Count 100/100 Offset 0.50 dB SWT 442.4 μs RBW 30 kHz VBW 100 kHz Mode Auto FFT 1Pk Max M1 M1[1] -7.71 dBm 2.4194530 GHz  CF 2.422 GHz 691 pts Span 55.0 MHz Date: 21 SEP 2023 10:08:25	
CH06	Spectrum Ref Level 20.00 dBm Att 30 dB Count 100/100 Offset 0.50 dB SWT 442.4 μs RBW 30 kHz VBW 100 kHz Mode Auto FFT 1Pk Max M1 M1[1] -8.52 dBm 2.4344530 GHz  CF 2.437 GHz 691 pts Span 55.0 MHz Date: 21 SEP 2023 10:10:02	
CH09	Spectrum Ref Level 20.00 dBm Att 30 dB Count 100/100 Offset 0.50 dB SWT 442.4 μs RBW 30 kHz VBW 100 kHz Mode Auto FFT 1Pk Max M1 M1[1] -9.07 dBm 2.4494530 GHz  CF 2.452 GHz 691 pts Span 55.0 MHz Date: 21 SEP 2023 10:11:18	

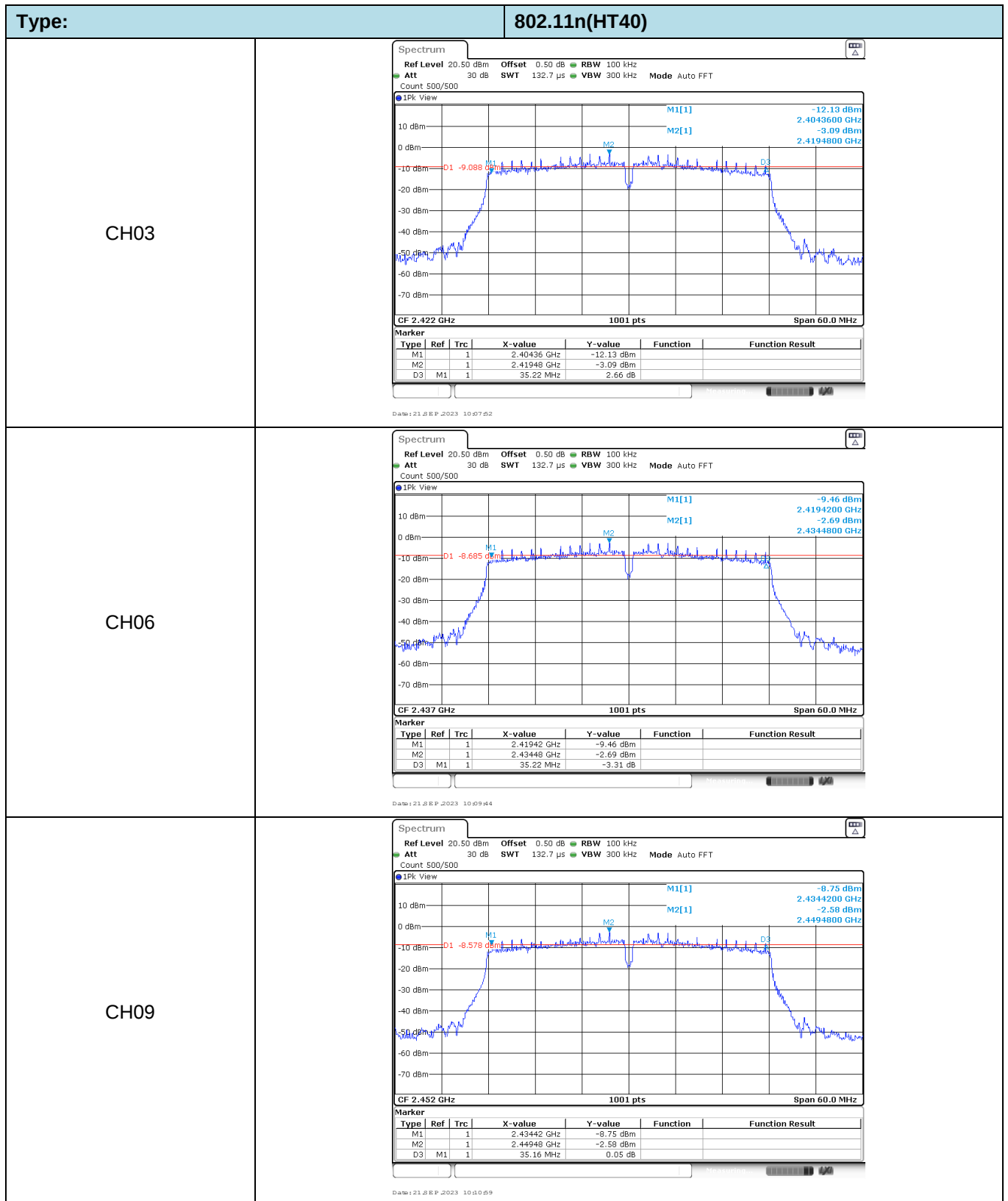
Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth (MHz)	Limit (MHz)	Result
802.11b	01	9.63	≥0.5	Pass
	06	9.63		
	11	10.08		
802.11g	01	14.49	≥0.5	Pass
	06	12.90		
	11	12.69		
802.11n(HT20)	01	13.86	≥0.5	Pass
	06	12.03		
	11	12.69		
802.11n(HT40)	03	35.22	≥0.5	Pass
	06	35.22		
	09	35.16		

Type:		802.11 b																												
CH01	Spectrum Ref Level 20.50 dBm Att 30 dB Count 500/500 Offset 0.50 dB SWT 75.9 μs RBW 100 kHz VBW 300 kHz Mode Auto FFT 1Pk View 10 dBm -0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1 M2 M1[1] M2[1] D3 -1.23 dBm 2.4069600 GHz 5.28 dBm 2.4125100 GHz D1 -0.724 dBm CF 2.412 GHz 1001 pts Span 30.0 MHz Marker <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-value</th><th>Y-value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td></td><td>1</td><td>2.40696 GHz</td><td>-1.23 dBm</td><td></td><td></td></tr><tr><td>M2</td><td></td><td>1</td><td>2.41251 GHz</td><td>5.28 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>9.63 MHz</td><td>-0.64 dB</td><td></td><td></td></tr></table> Date: 21 SEP 2023 09:44:23		Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.40696 GHz	-1.23 dBm			M2		1	2.41251 GHz	5.28 dBm			D3	M1	1	9.63 MHz	-0.64 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																								
M1		1	2.40696 GHz	-1.23 dBm																										
M2		1	2.41251 GHz	5.28 dBm																										
D3	M1	1	9.63 MHz	-0.64 dB																										
CH06	Spectrum Ref Level 20.50 dBm Att 30 dB Count 500/500 Offset 0.50 dB SWT 75.9 μs RBW 100 kHz VBW 300 kHz Mode Auto FFT 1Pk View 10 dBm -0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1 M2 M1[1] M2[1] D3 -1.31 dBm 2.4319600 GHz 5.16 dBm 2.4364900 GHz D1 -0.836 dBm CF 2.437 GHz 1001 pts Span 30.0 MHz Marker <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-value</th><th>Y-value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td></td><td>1</td><td>2.43196 GHz</td><td>-1.31 dBm</td><td></td><td></td></tr><tr><td>M2</td><td></td><td>1</td><td>2.43649 GHz</td><td>5.16 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>9.63 MHz</td><td>0.22 dB</td><td></td><td></td></tr></table> Date: 21 SEP 2023 09:46:08		Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.43196 GHz	-1.31 dBm			M2		1	2.43649 GHz	5.16 dBm			D3	M1	1	9.63 MHz	0.22 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																								
M1		1	2.43196 GHz	-1.31 dBm																										
M2		1	2.43649 GHz	5.16 dBm																										
D3	M1	1	9.63 MHz	0.22 dB																										
CH11	Spectrum Ref Level 20.50 dBm Att 30 dB Count 500/500 Offset 0.50 dB SWT 75.9 μs RBW 100 kHz VBW 300 kHz Mode Auto FFT 1Pk View 10 dBm -0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1 M2 M1[1] M2[1] D3 -1.36 dBm 2.4569600 GHz 5.22 dBm 2.4614900 GHz D1 -0.783 dBm CF 2.462 GHz 1001 pts Span 30.0 MHz Marker <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-value</th><th>Y-value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td></td><td>1</td><td>2.45696 GHz</td><td>-1.36 dBm</td><td></td><td></td></tr><tr><td>M2</td><td></td><td>1</td><td>2.46149 GHz</td><td>5.22 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>10.08 MHz</td><td>0.27 dB</td><td></td><td></td></tr></table> Date: 21 SEP 2023 09:47:22		Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.45696 GHz	-1.36 dBm			M2		1	2.46149 GHz	5.22 dBm			D3	M1	1	10.08 MHz	0.27 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																								
M1		1	2.45696 GHz	-1.36 dBm																										
M2		1	2.46149 GHz	5.22 dBm																										
D3	M1	1	10.08 MHz	0.27 dB																										

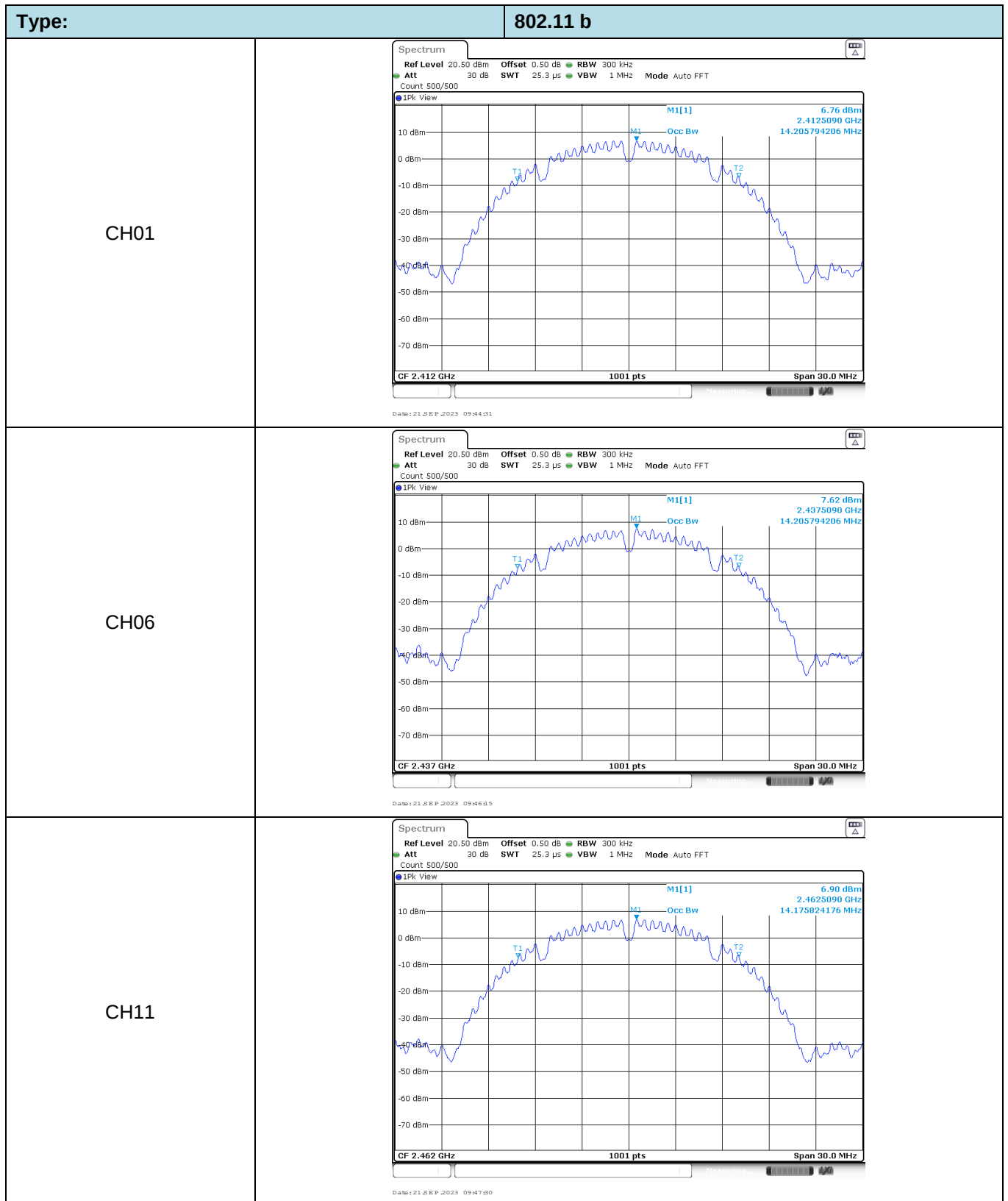
Type:		802.11 g																											
CH01	Spectrum Ref Level 20.50 dBm Att 30 dB Count 500/500 Offset 0.50 dB SWT 75.9 μs RBW 100 kHz VBW 300 kHz Mode Auto FFT 1Pk View 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1 M2 M3 -7.35 dBm 2.4050700 GHz -1.21 dBm 2.4132900 GHz CF 2.412 GHz 1001 pts Span 30.0 MHz Marker <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-value</th><th>Y-value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td></td><td>1</td><td>2.40507 GHz</td><td>-7.35 dBm</td><td></td><td></td></tr><tr><td>M2</td><td></td><td>1</td><td>2.41329 GHz</td><td>-1.21 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>14.49 MHz</td><td>-1.23 dB</td><td></td><td></td></tr></table> Date: 21 SEP 2023 10:14:22	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.40507 GHz	-7.35 dBm			M2		1	2.41329 GHz	-1.21 dBm			D3	M1	1	14.49 MHz	-1.23 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																							
M1		1	2.40507 GHz	-7.35 dBm																									
M2		1	2.41329 GHz	-1.21 dBm																									
D3	M1	1	14.49 MHz	-1.23 dB																									
CH06	Spectrum Ref Level 20.50 dBm Att 30 dB Count 500/500 Offset 0.50 dB SWT 75.9 μs RBW 100 kHz VBW 300 kHz Mode Auto FFT 1Pk View 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1 M2 M3 -6.49 dBm 2.4304600 GHz -0.07 dBm 2.4382600 GHz CF 2.437 GHz 1001 pts Span 30.0 MHz Marker <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-value</th><th>Y-value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td></td><td>1</td><td>2.43046 GHz</td><td>-6.49 dBm</td><td></td><td></td></tr><tr><td>M2</td><td></td><td>1</td><td>2.43826 GHz</td><td>-0.07 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>12.9 MHz</td><td>-1.45 dB</td><td></td><td></td></tr></table> Date: 21 SEP 2023 09:56:45	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.43046 GHz	-6.49 dBm			M2		1	2.43826 GHz	-0.07 dBm			D3	M1	1	12.9 MHz	-1.45 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																							
M1		1	2.43046 GHz	-6.49 dBm																									
M2		1	2.43826 GHz	-0.07 dBm																									
D3	M1	1	12.9 MHz	-1.45 dB																									
CH11	Spectrum Ref Level 20.50 dBm Att 30 dB Count 500/500 Offset 0.50 dB SWT 75.9 μs RBW 100 kHz VBW 300 kHz Mode Auto FFT 1Pk View 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1 M2 M3 -5.98 dBm 2.4556700 GHz 0.15 dBm 2.4632600 GHz CF 2.462 GHz 1001 pts Span 30.0 MHz Marker <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-value</th><th>Y-value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td></td><td>1</td><td>2.45567 GHz</td><td>-5.98 dBm</td><td></td><td></td></tr><tr><td>M2</td><td></td><td>1</td><td>2.46326 GHz</td><td>0.15 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>12.69 MHz</td><td>-1.54 dB</td><td></td><td></td></tr></table> Date: 21 SEP 2023 09:59:14	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.45567 GHz	-5.98 dBm			M2		1	2.46326 GHz	0.15 dBm			D3	M1	1	12.69 MHz	-1.54 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																							
M1		1	2.45567 GHz	-5.98 dBm																									
M2		1	2.46326 GHz	0.15 dBm																									
D3	M1	1	12.69 MHz	-1.54 dB																									

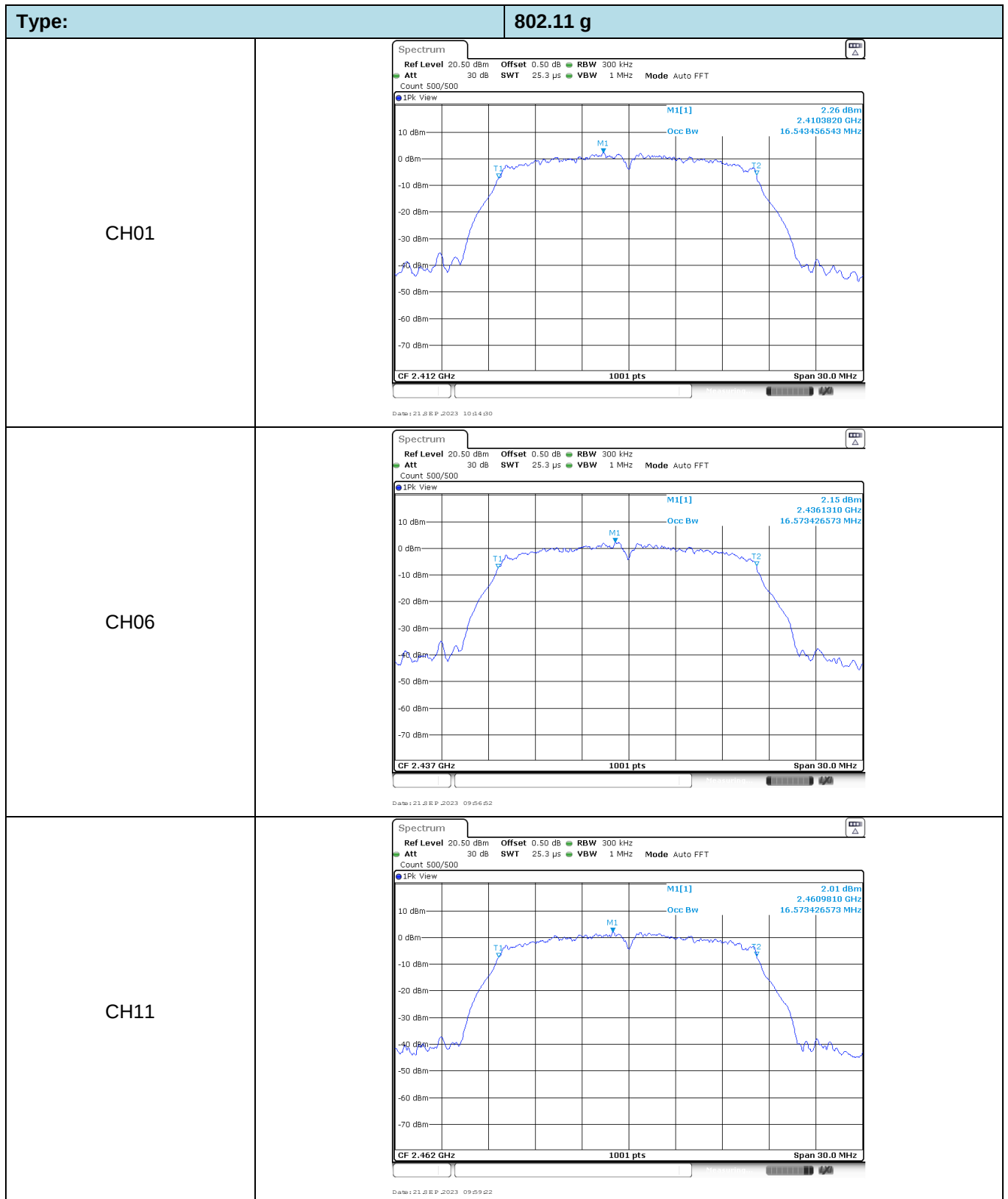
Appendix report page: 11 of 35

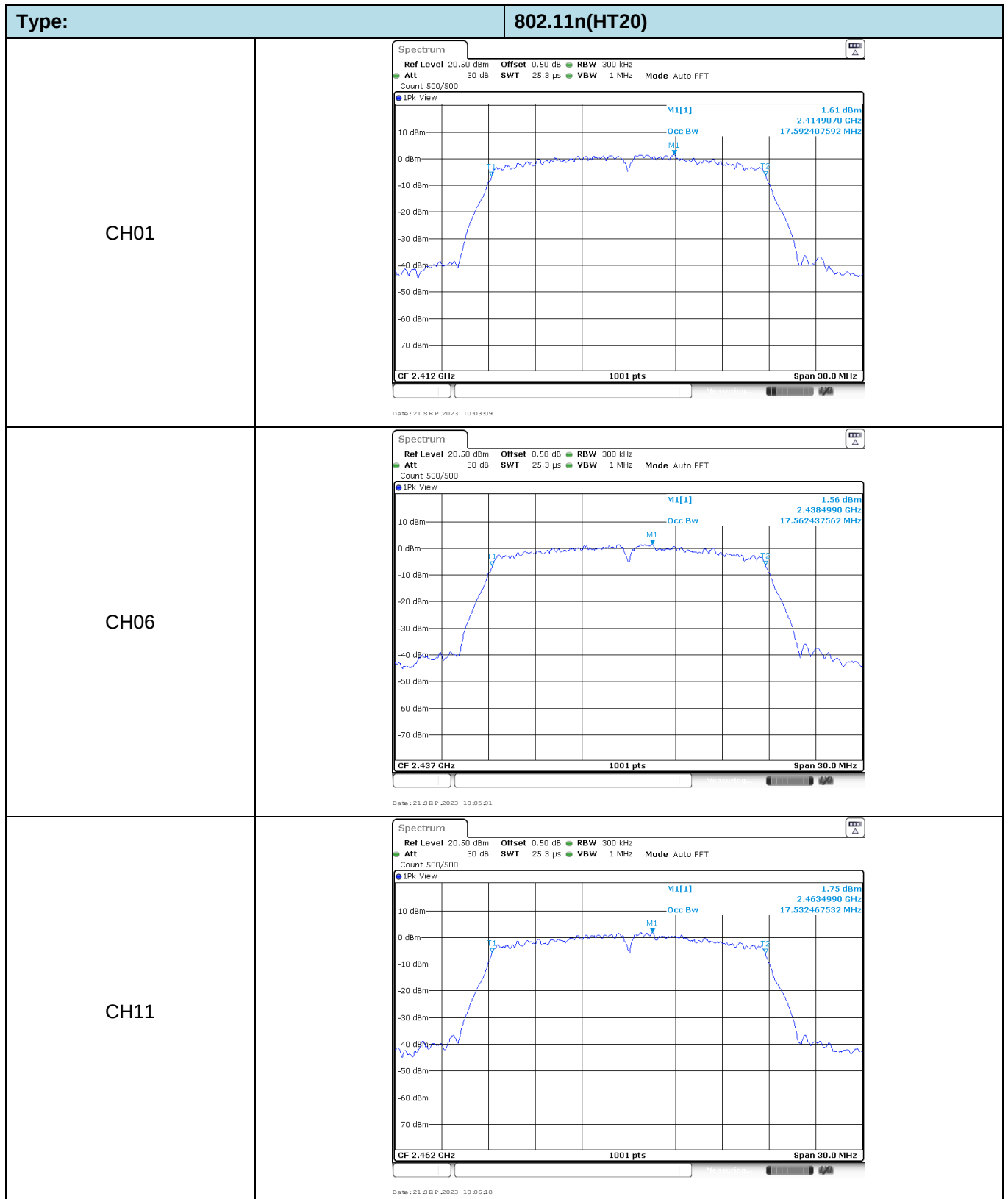


Appendix D: 99% Occupied Bandwidth

Type	Channel	99% Bandwidth (MHz)	Limit (kHz)	Result
802.11b	01	14.21	-	Pass
	06	14.21		
	11	14.18		
802.11g	01	16.54	-	Pass
	06	16.57		
	11	16.57		
802.11n(HT20)	01	17.59	-	Pass
	06	17.56		
	11	17.53		
802.11n(HT40)	03	36.02	-	Pass
	06	35.96		
	09	36.02		





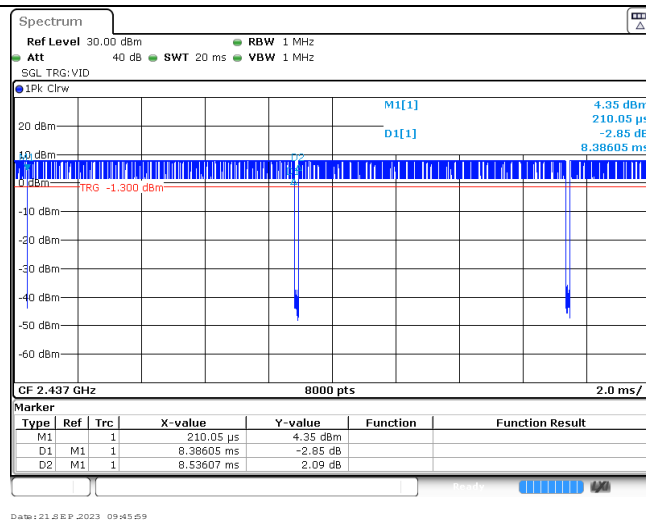


Type:		802.11n(HT40)
CH03	Spectrum Ref Level 20.50 dBm Offset 0.50 dB RBW 500 kHz Att 30 dB SWT 1 ms VBW 2 MHz Mode Auto Sweep Count 500/500 1Pk View <	

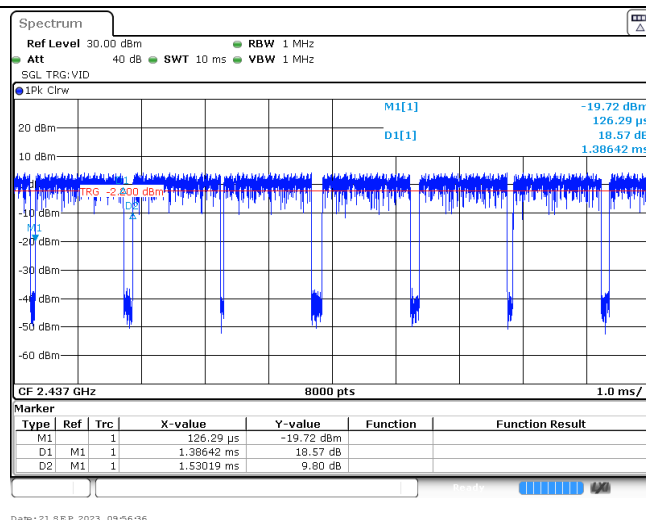
Appendix E: Duty Cycle

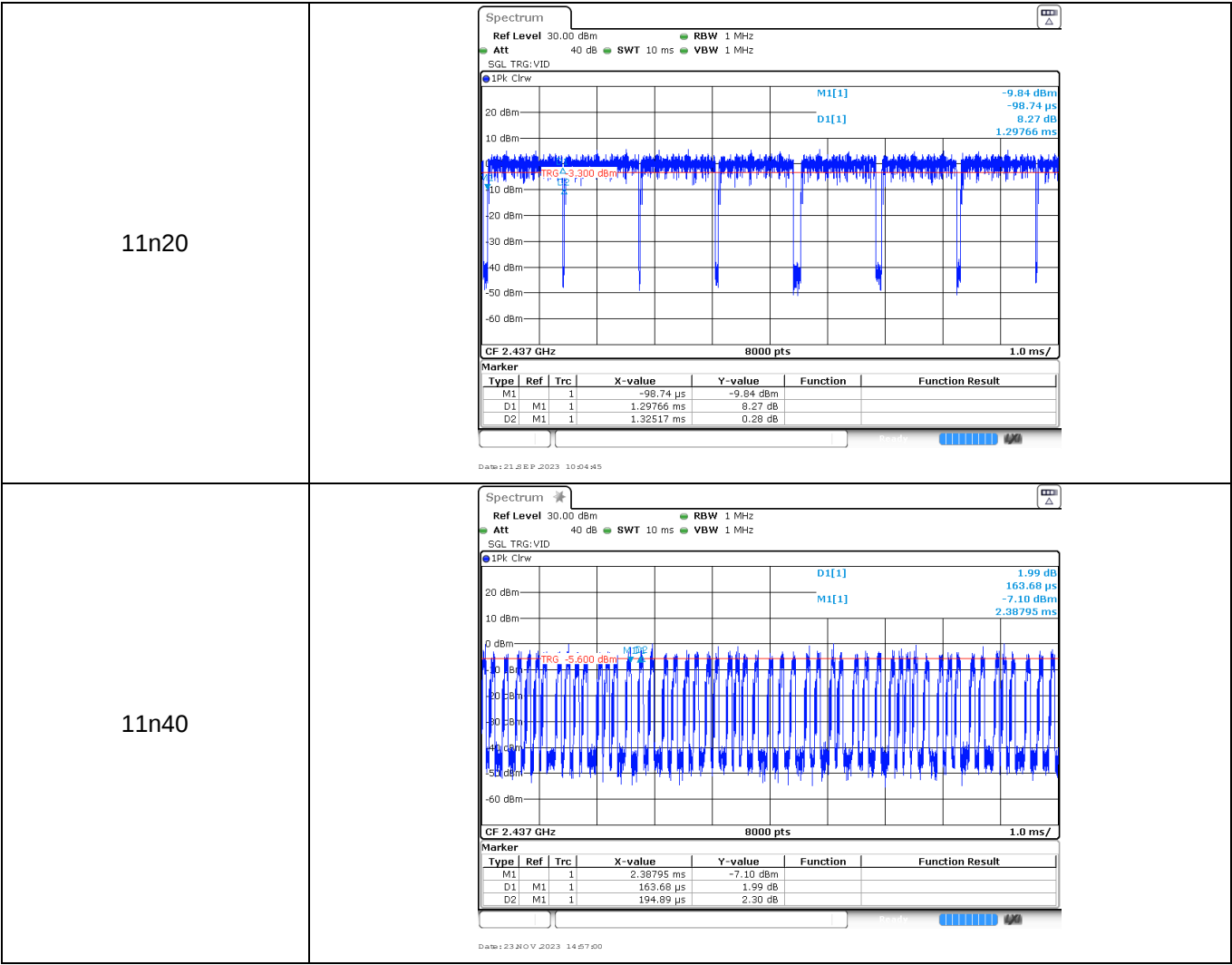
Modulation Type	Test Frequency (MHz)	T _{on time} for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on time} (kHz)
11b	2437	8.39	8.54	0.98	0.12
11g	2437	1.39	1.53	0.91	0.72
11n20	2437	1.30	1.33	0.98	0.77
11n40	2437	0.16	0.19	0.84	6.25

11b

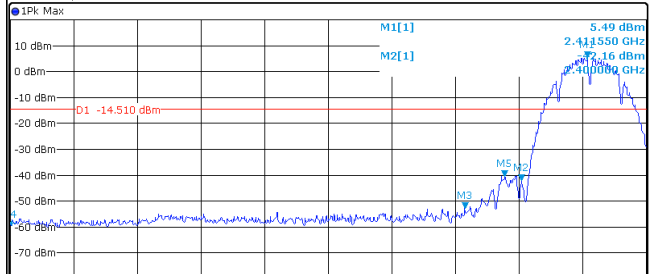
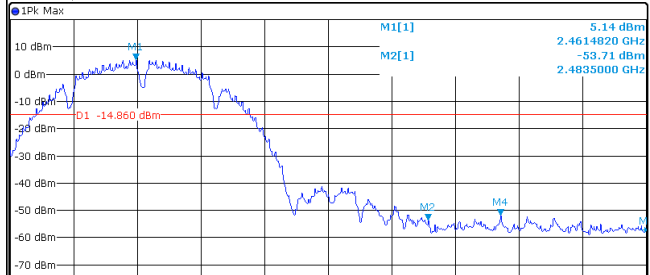


11g





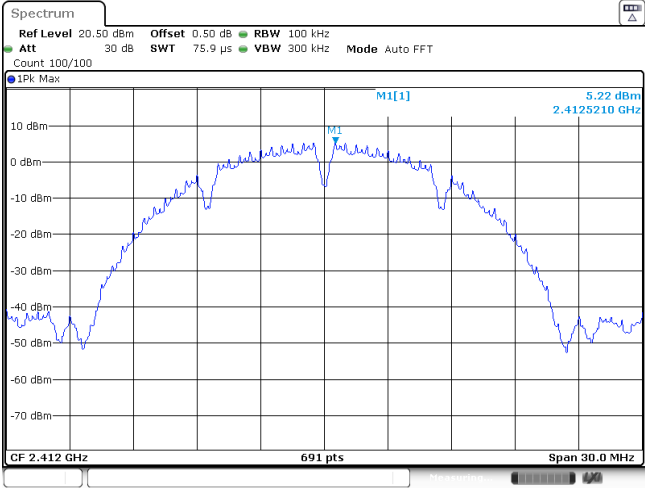
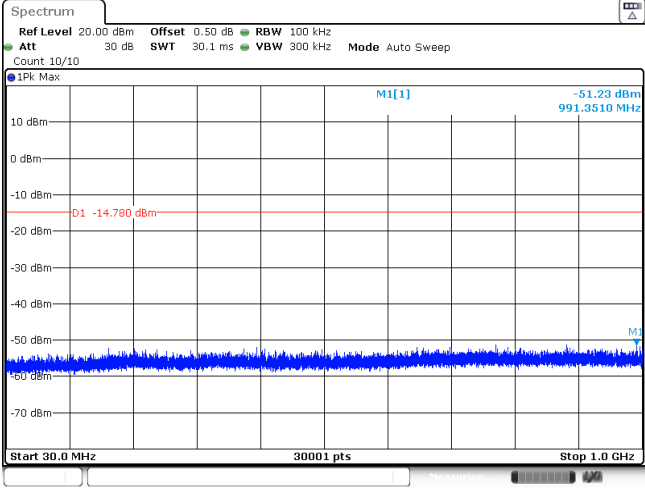
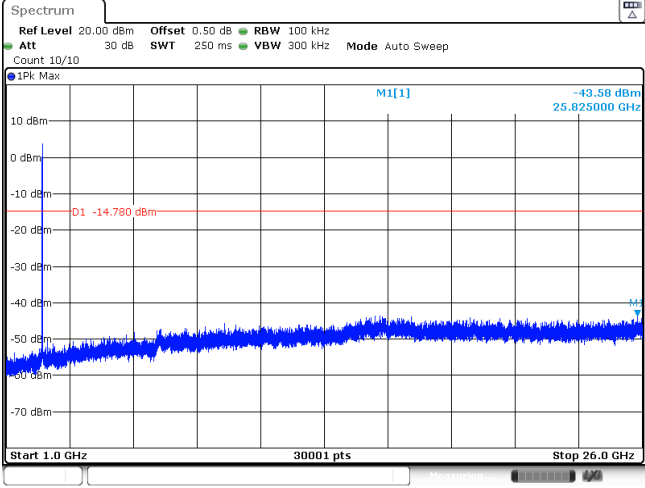
Appendix F: Band edge and Spurious Emissions (conducted)

Test Item:	Bandedge	Type:	802.11 b																																										
CH01	Spectrum Ref Level 20.00 dBm Offset 0.50 dB RBW 100 kHz Att 30 dB SWT 246.5 μs VBW 300 kHz Mode Auto FFT Count 300/300 1Pk Max  Start 2.31 GHz 691 pts Stop 2.422 GHz <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-value</th><th>Y-value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>2.41155 GHz</td><td>5.49 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-42.16 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-52.93 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-58.40 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.397003 GHz</td><td>-40.19 dBm</td><td></td><td></td></tr></table> Date: 21 SEP 2023 09:44:51			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.41155 GHz	5.49 dBm			M2	1		2.4 GHz	-42.16 dBm			M3	1		2.39 GHz	-52.93 dBm			M4	1		2.31 GHz	-58.40 dBm			M5	1		2.397003 GHz	-40.19 dBm		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
M1	1		2.41155 GHz	5.49 dBm																																									
M2	1		2.4 GHz	-42.16 dBm																																									
M3	1		2.39 GHz	-52.93 dBm																																									
M4	1		2.31 GHz	-58.40 dBm																																									
M5	1		2.397003 GHz	-40.19 dBm																																									
CH11	Spectrum Ref Level 20.00 dBm Offset 0.50 dB RBW 100 kHz Att 30 dB SWT 113.8 μs VBW 300 kHz Mode Auto FFT Count 300/300 1Pk Max  Start 2.452 GHz 691 pts Stop 2.5 GHz <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-value</th><th>Y-value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>2.461482 GHz</td><td>5.14 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-53.71 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-57.13 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.4890087 GHz</td><td>-51.77 dBm</td><td></td><td></td></tr></table> Date: 21 SEP 2023 09:47:49			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.461482 GHz	5.14 dBm			M2	1		2.4835 GHz	-53.71 dBm			M3	1		2.5 GHz	-57.13 dBm			M4	1		2.4890087 GHz	-51.77 dBm									
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
M1	1		2.461482 GHz	5.14 dBm																																									
M2	1		2.4835 GHz	-53.71 dBm																																									
M3	1		2.5 GHz	-57.13 dBm																																									
M4	1		2.4890087 GHz	-51.77 dBm																																									

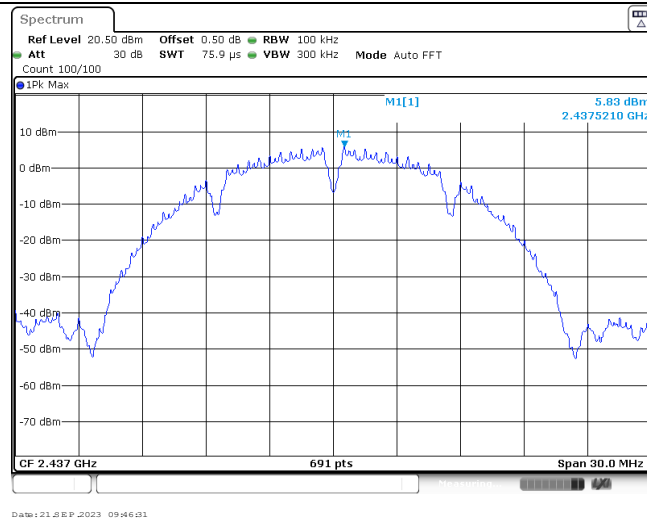
Test Item:	Bandedge	Type:	802.11 g																																										
CH01	Spectrum Ref Level 20.00 dBm Att 30 dB Offset 0.50 dB RBW 100 kHz SWT 246.5 μs VBW 300 kHz Mode Auto FFT Count 300/300 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1[1] M2[1] M3 M4 M5 -0.93 dBm 2.414460 GHz -45.69 dBm 2.400000 GHz D1 -20.930 dBm Start 2.31 GHz 691 pts Stop 2.422 GHz <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-value</th><th>Y-value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>2.41446 GHz</td><td>-0.93 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-45.69 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-54.91 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-56.95 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399925 GHz</td><td>-43.85 dBm</td><td></td><td></td></tr></table> Date: 21 SEP 2023 10:14:50			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.41446 GHz	-0.93 dBm			M2	1		2.4 GHz	-45.69 dBm			M3	1		2.39 GHz	-54.91 dBm			M4	1		2.31 GHz	-56.95 dBm			M5	1		2.399925 GHz	-43.85 dBm		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
M1	1		2.41446 GHz	-0.93 dBm																																									
M2	1		2.4 GHz	-45.69 dBm																																									
M3	1		2.39 GHz	-54.91 dBm																																									
M4	1		2.31 GHz	-56.95 dBm																																									
M5	1		2.399925 GHz	-43.85 dBm																																									
CH11	Spectrum Ref Level 20.00 dBm Att 30 dB Offset 0.50 dB RBW 100 kHz SWT 113.8 μs VBW 300 kHz Mode Auto FFT Count 300/300 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1 M2[1] M3 M4 -1.63 dBm 2.4569670 GHz -53.49 dBm 2.4835000 GHz D1 -21.630 dBm Start 2.452 GHz 691 pts Stop 2.5 GHz <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-value</th><th>Y-value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>2.456967 GHz</td><td>-1.63 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-53.49 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-56.75 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.484487 GHz</td><td>-51.00 dBm</td><td></td><td></td></tr></table> Date: 21 SEP 2023 09:59:42			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.456967 GHz	-1.63 dBm			M2	1		2.4835 GHz	-53.49 dBm			M3	1		2.5 GHz	-56.75 dBm			M4	1		2.484487 GHz	-51.00 dBm									
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
M1	1		2.456967 GHz	-1.63 dBm																																									
M2	1		2.4835 GHz	-53.49 dBm																																									
M3	1		2.5 GHz	-56.75 dBm																																									
M4	1		2.484487 GHz	-51.00 dBm																																									

Test Item:	Bandedge	Type:	802.11 n(HT20)																																										
CH01	Spectrum Ref Level 20.00 dBm Offset 0.50 dB RBW 100 kHz Att 30 dB SWT 246.5 μs VBW 300 kHz Mode Auto FFT Count 300/300 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1[1] M2[1] M3 M4 -0.28 dBm 2.410740 GHz -45.65 dBm 2.400000 GHz Start 2.31 GHz 691 pts Stop 2.422 GHz Marker <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-value</th><th>Y-value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>2.41074 GHz</td><td>-0.28 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-45.65 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-53.07 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-59.04 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399925 GHz</td><td>-43.60 dBm</td><td></td><td></td></tr></table> Date: 21 SEP 2023 10:03:29			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.41074 GHz	-0.28 dBm			M2	1		2.4 GHz	-45.65 dBm			M3	1		2.39 GHz	-53.07 dBm			M4	1		2.31 GHz	-59.04 dBm			M5	1		2.399925 GHz	-43.60 dBm		
	Type	Ref	Trc	X-value	Y-value	Function	Function Result																																						
M1	1		2.41074 GHz	-0.28 dBm																																									
M2	1		2.4 GHz	-45.65 dBm																																									
M3	1		2.39 GHz	-53.07 dBm																																									
M4	1		2.31 GHz	-59.04 dBm																																									
M5	1		2.399925 GHz	-43.60 dBm																																									
CH11	Spectrum Ref Level 20.00 dBm Offset 0.50 dB RBW 100 kHz Att 30 dB SWT 113.8 μs VBW 300 kHz Mode Auto FFT Count 300/300 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1 M2[1] M4 M5 -0.57 dBm 2.463288 GHz -54.84 dBm 2.483500 GHz Start 2.452 GHz 691 pts Stop 2.5 GHz Marker <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-value</th><th>Y-value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>2.463288 GHz</td><td>-0.57 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-54.84 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-56.49 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.484487 GHz</td><td>-50.40 dBm</td><td></td><td></td></tr></table> Date: 21 SEP 2023 10:06:37			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.463288 GHz	-0.57 dBm			M2	1		2.4835 GHz	-54.84 dBm			M3	1		2.5 GHz	-56.49 dBm			M4	1		2.484487 GHz	-50.40 dBm									
	Type	Ref	Trc	X-value	Y-value	Function	Function Result																																						
M1	1		2.463288 GHz	-0.57 dBm																																									
M2	1		2.4835 GHz	-54.84 dBm																																									
M3	1		2.5 GHz	-56.49 dBm																																									
M4	1		2.484487 GHz	-50.40 dBm																																									

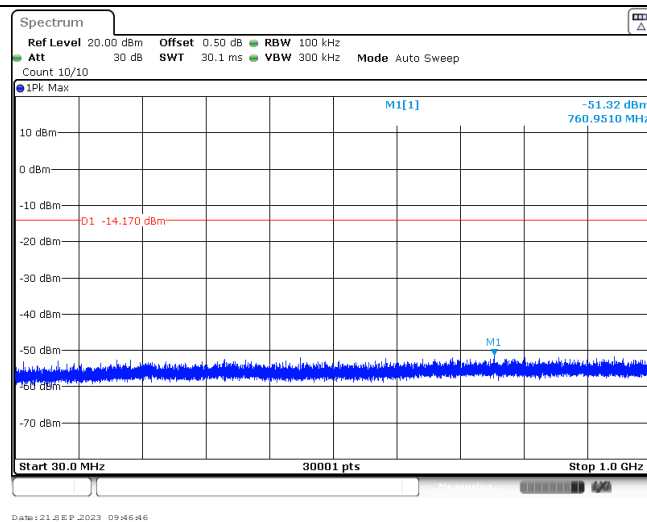
Test Item:	Bandedge	Type:	802.11 n(HT40)																																										
CH03	Spectrum Ref Level 20.00 dBm Att 30 dB Offset 0.50 dB RBW 100 kHz SWT 303.4 μs VBW 300 kHz Count 265/300 Mode Auto FFT 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1[1] M2[1] M1 M3 M4 M5 -2.57 dBm 2.419550 GHz -44.34 dBm 2.400000 GHz -22.570 dBm Start 2.31 GHz 691 pts Stop 2.442 GHz <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-value</th><th>Y-value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>2.41955 GHz</td><td>-2.57 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-44.34 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-50.58 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-58.32 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.39953 GHz</td><td>-44.36 dBm</td><td></td><td></td></tr></table> Date: 21 SEP 2023 10:08:34			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.41955 GHz	-2.57 dBm			M2	1		2.4 GHz	-44.34 dBm			M3	1		2.39 GHz	-50.58 dBm			M4	1		2.31 GHz	-58.32 dBm			M5	1		2.39953 GHz	-44.36 dBm		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
M1	1		2.41955 GHz	-2.57 dBm																																									
M2	1		2.4 GHz	-44.34 dBm																																									
M3	1		2.39 GHz	-50.58 dBm																																									
M4	1		2.31 GHz	-58.32 dBm																																									
M5	1		2.39953 GHz	-44.36 dBm																																									
CH09	Spectrum Ref Level 20.00 dBm Att 30 dB Offset 0.50 dB RBW 100 kHz SWT 1.1 ms VBW 300 kHz Count 300/300 Mode Auto Sweep 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1[1] M2[1] M1 M2 M3 M4 -2.74 dBm 2.4494670 GHz -50.54 dBm 2.4835000 GHz -22.740 dBm Start 2.432 GHz 691 pts Stop 2.5 GHz <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-value</th><th>Y-value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>2.449467 GHz</td><td>-2.74 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-50.54 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-52.12 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.4869913 GHz</td><td>-49.22 dBm</td><td></td><td></td></tr></table> Date: 21 SEP 2023 10:11:27			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.449467 GHz	-2.74 dBm			M2	1		2.4835 GHz	-50.54 dBm			M3	1		2.5 GHz	-52.12 dBm			M4	1		2.4869913 GHz	-49.22 dBm									
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
M1	1		2.449467 GHz	-2.74 dBm																																									
M2	1		2.4835 GHz	-50.54 dBm																																									
M3	1		2.5 GHz	-52.12 dBm																																									
M4	1		2.4869913 GHz	-49.22 dBm																																									

Test Item:	SE	Type:	802.11b
CH01 Reference level			
CH01 30MHz~1000MHz			
CH01 1GHz~26GHz			

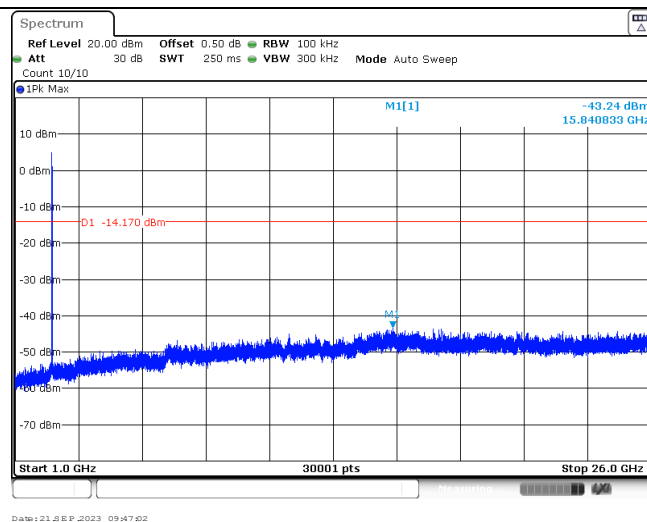
CH06
Reference level

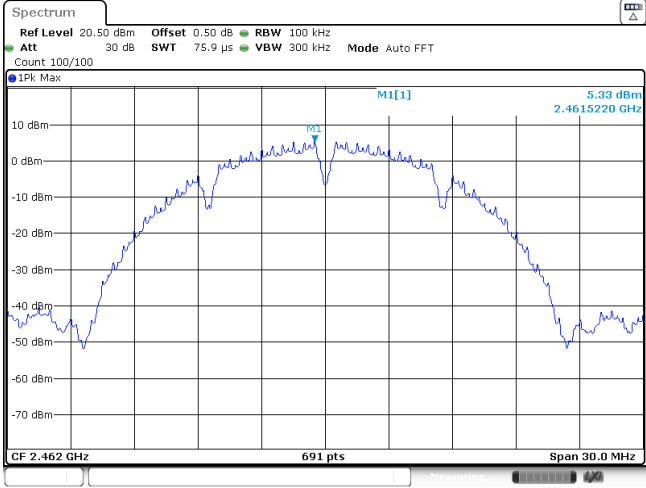
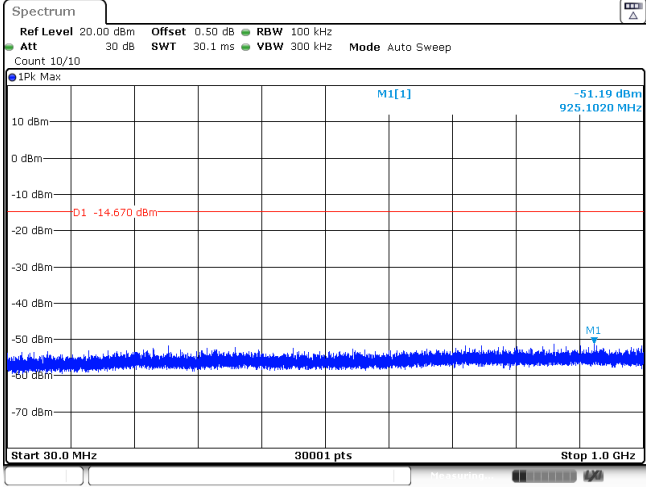
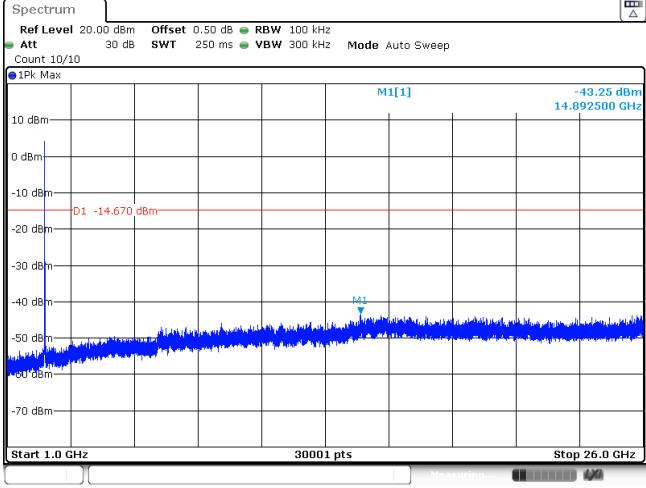


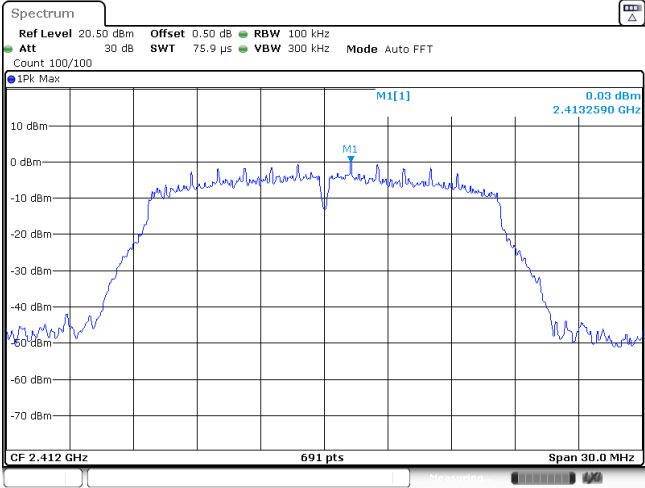
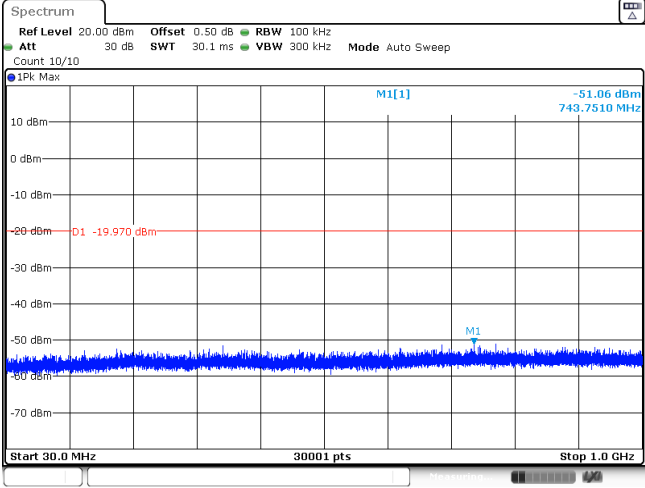
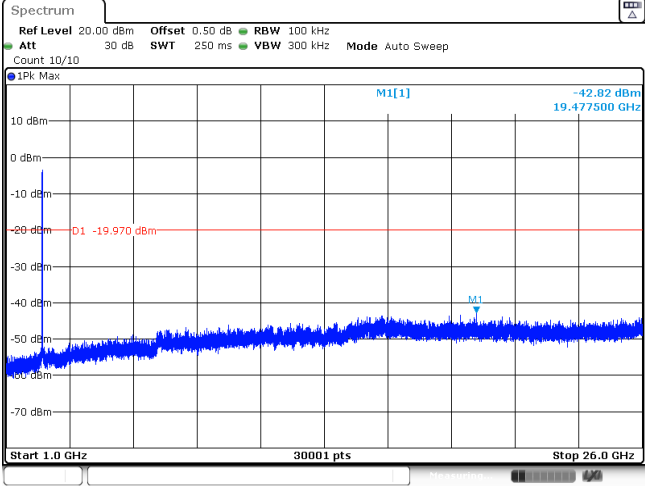
CH06
30MHz~1000MHz



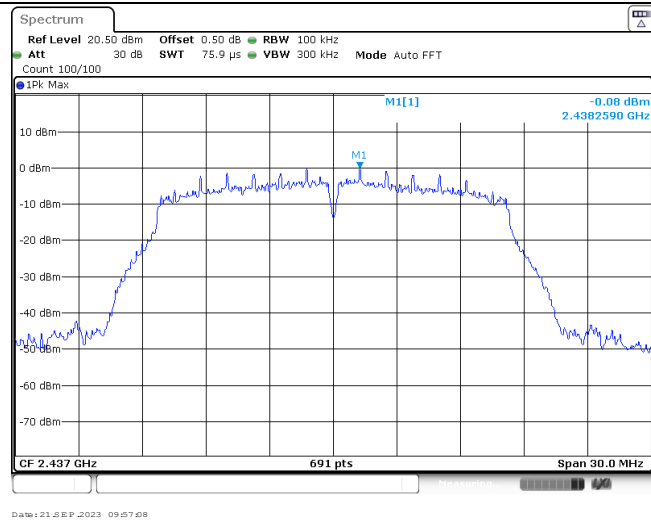
CH06
1GHz~26GHz



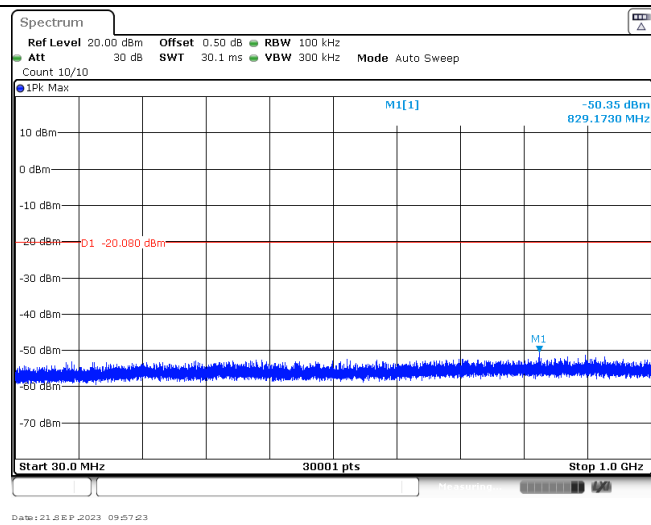
CH11 Reference level	 Ref Level 20.50 dBm Offset 0.50 dB RBW 100 kHz Att 30 dB SWT 75.9 μs VBW 300 kHz Mode Auto FFT Count 100/100 1Pk Max M1[1] 5.33 dBm 2.4615220 GHz CF 2.462 GHz 691 pts Span 30.0 MHz Date: 21 SEP 2023 09:47:55
CH11 30MHz~1000MHz	 Ref Level 20.00 dBm Offset 0.50 dB RBW 100 kHz Att 30 dB SWT 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1Pk Max M1[1] -51.19 dBm 925.1020 MHz D1 -14.670 dBm Start 30.0 MHz 30001 pts Stop 1.0 GHz Date: 21 SEP 2023 09:48:10
CH11 1GHz~26GHz	 Ref Level 20.00 dBm Offset 0.50 dB RBW 100 kHz Att 30 dB SWT 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1Pk Max M1[1] -43.25 dBm 14.892500 GHz D1 -14.670 dBm Start 1.0 GHz 30001 pts Stop 26.0 GHz Date: 21 SEP 2023 09:48:25

Test Item:	SE	Type:	802.11g
CH01 Reference level			
CH01 30MHz~1000MHz			
CH01 1GHz~26GHz			

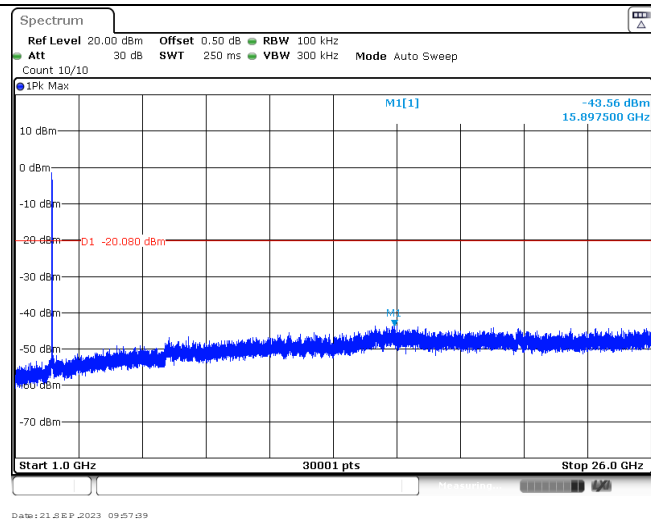
CH06
Reference level



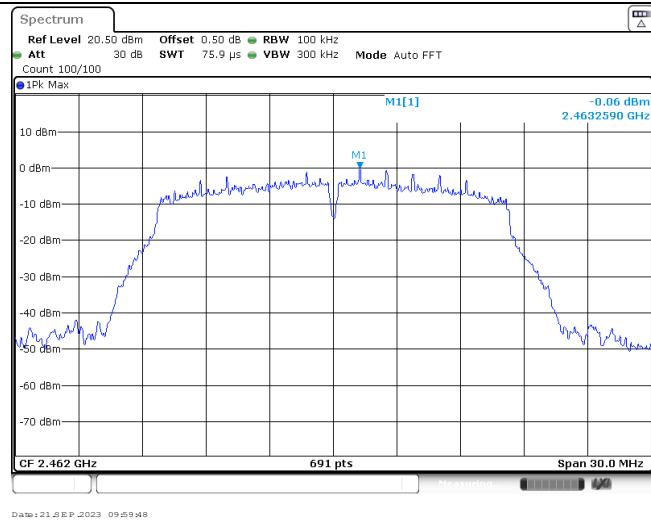
CH06
30MHz~1000MHz



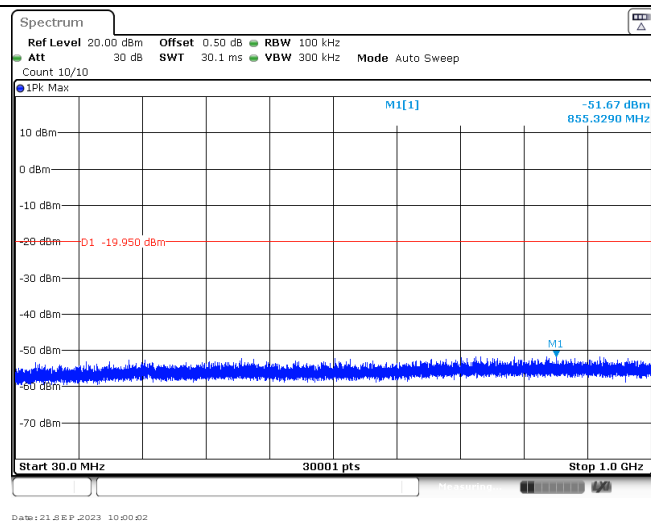
CH06
1GHz~26GHz



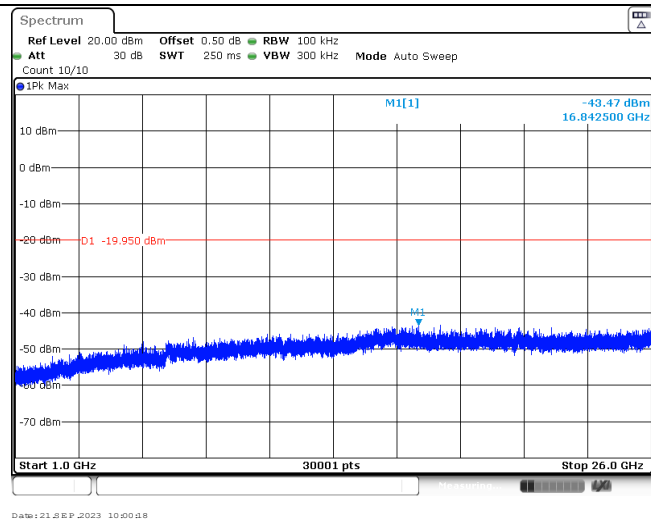
CH11
Reference level



CH11
30MHz~1000MHz

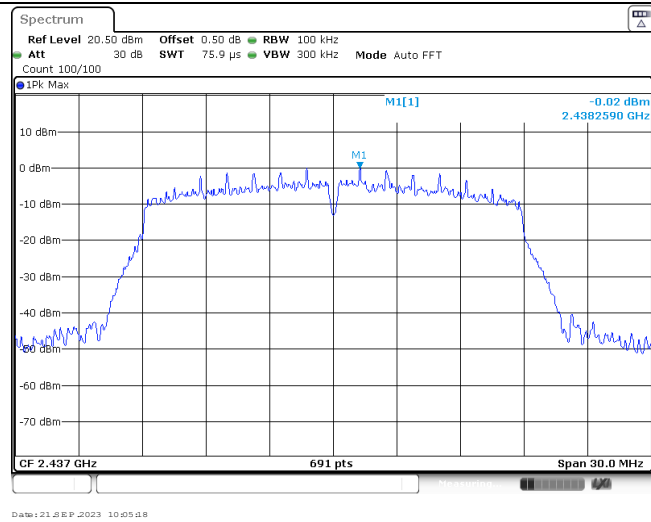


CH11
1GHz~26GHz

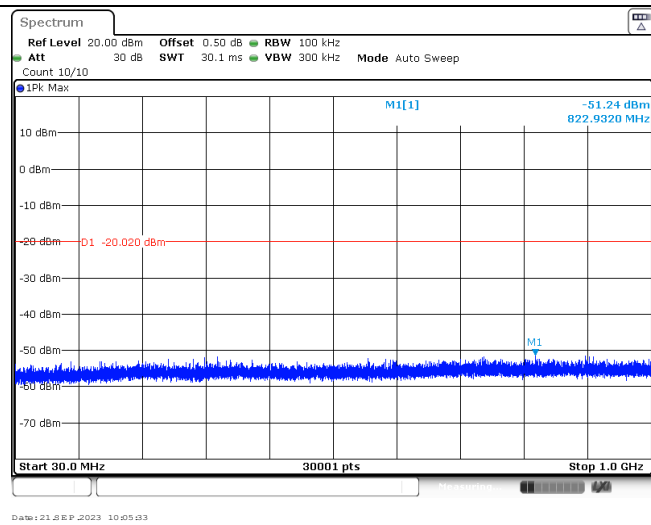


Test Item:	SE	Type:	802.11n(HT20)
CH01 Reference level		Spectrum Ref Level 20.50 dBm Att 30 dB Count 100/100 Offset 0.50 dB SWT 75.9 μs RBW 100 kHz VBW 300 kHz Mode Auto FFT 1Pk Max M1[1] -0.37 dBm 2.4132590 GHz M1 CF 2.412 GHz 691 pts Span 30.0 MHz Date: 21 SEP 2023 10:03:35	
CH01 30MHz~1000MHz		Spectrum Ref Level 20.00 dBm Att 30 dB Count 10/10 Offset 0.50 dB SWT 30.1 ms RBW 100 kHz VBW 300 kHz Mode Auto Sweep 1Pk Max M1[1] -51.29 dBm 929.8880 MHz D1 -20.370 dBm M1 Start 30.0 MHz 30001 pts Stop 1.0 GHz Date: 21 SEP 2023 10:03:50	
CH01 1GHz~26GHz		Spectrum Ref Level 20.00 dBm Att 30 dB Count 10/10 Offset 0.50 dB SWT 250 ms RBW 100 kHz VBW 300 kHz Mode Auto Sweep 1Pk Max M1[1] -43.05 dBm 15.844167 GHz D1 -20.370 dBm M1 Start 1.0 GHz 30001 pts Stop 26.0 GHz Date: 21 SEP 2023 10:04:05	

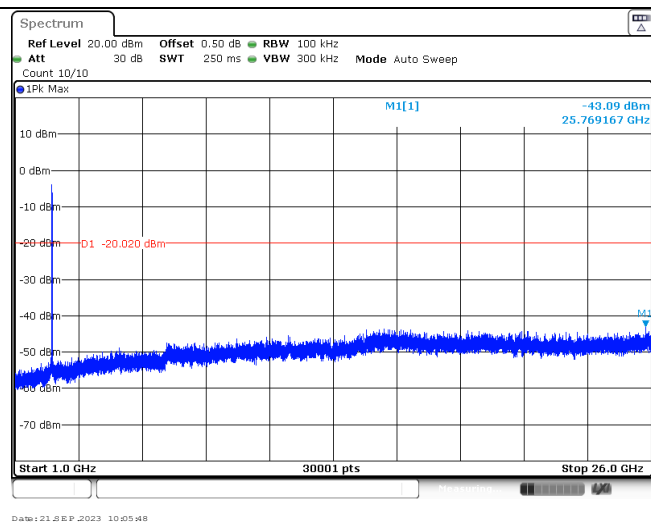
CH06
Reference level

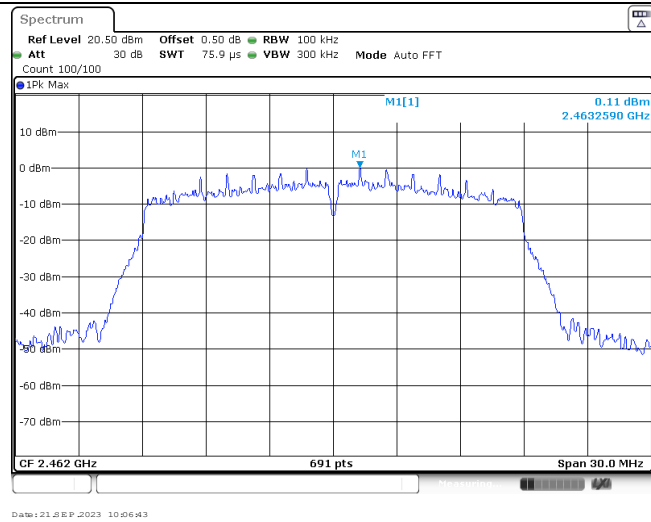
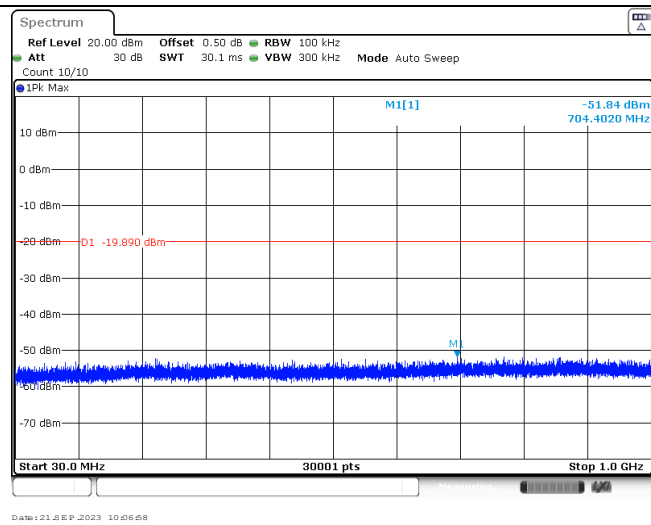
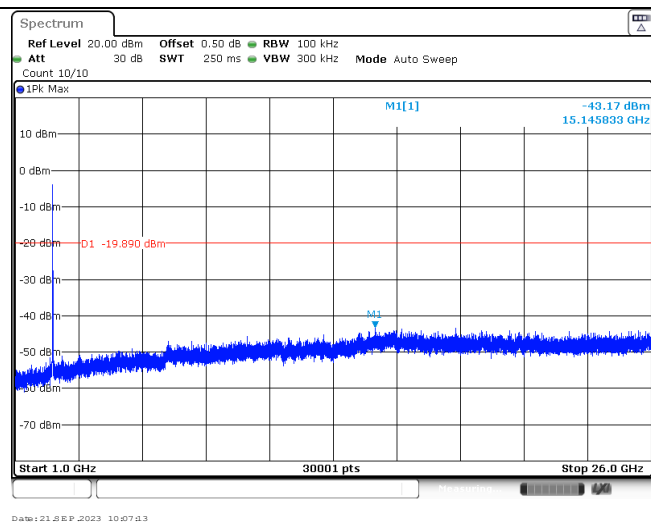


CH06
30MHz~1000MHz



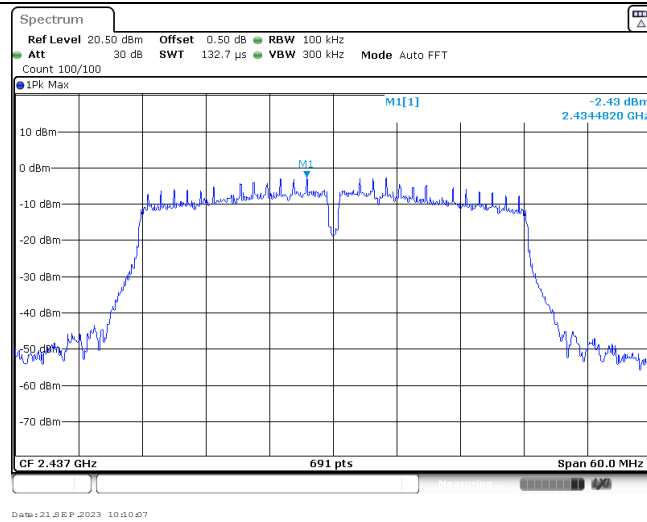
CH06
1GHz~26GHz



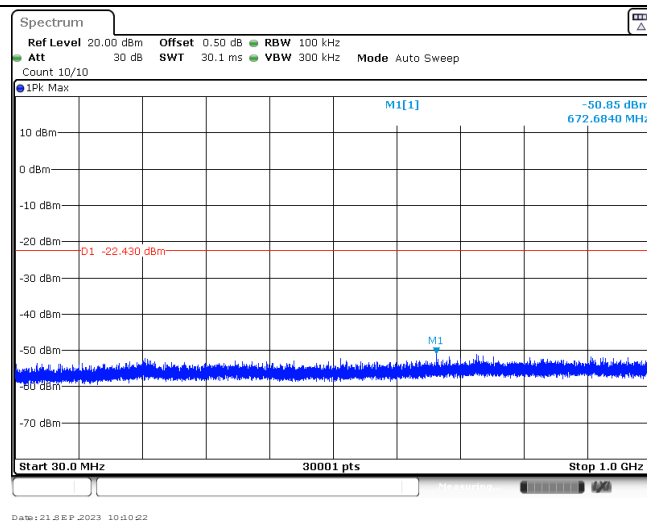
CH11
Reference levelCH11
30MHz~1000MHzCH11
1GHz~26GHz

Test Item:	SE	Type:	802.11n(HT40)
CH03 Reference level		Spectrum Ref Level 20.50 dBm Att 30 dB Count 100/100 Offset 0.50 dB SWT 132.7 μs RBW 100 kHz VBW 300 kHz Mode Auto FFT 1Pk Max M1[1] -2.65 dBm 2.4194820 GHz M1 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.422 GHz 691 pts Span 60.0 MHz Date: 21 SEP 2023 10:08:40	
CH03 30MHz~1000MHz		Spectrum Ref Level 20.00 dBm Att 30 dB Count 10/10 Offset 0.50 dB SWT 30.1 ms RBW 100 kHz VBW 300 kHz Mode Auto Sweep 1Pk Max M1[1] -51.60 dBm 651.4740 MHz D1 -22.650 dBm M1 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm Start 30.0 MHz 30001 pts Stop 1.0 GHz Date: 21 SEP 2023 10:08:55	
CH03 1GHz~26GHz		Spectrum Ref Level 20.00 dBm Att 30 dB Count 10/10 Offset 0.50 dB SWT 250 ms RBW 100 kHz VBW 300 kHz Mode Auto Sweep 1Pk Max M1[1] -43.63 dBm 15.982500 GHz D1 -22.650 dBm M1 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm Start 1.0 GHz 30001 pts Stop 26.0 GHz Date: 21 SEP 2023 10:09:11	

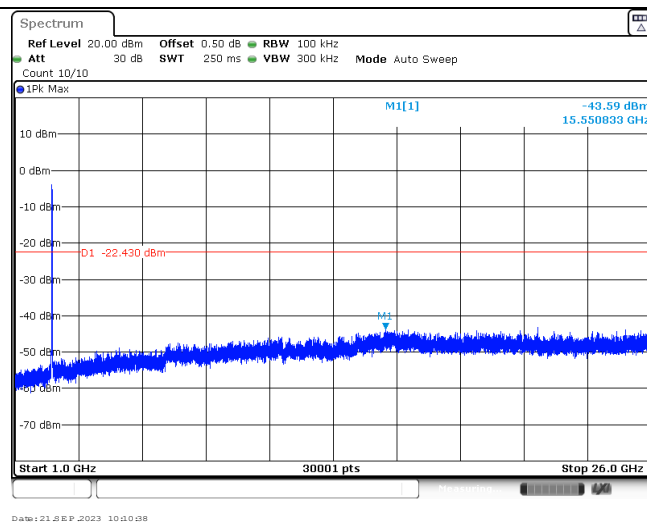
CH06
Reference level

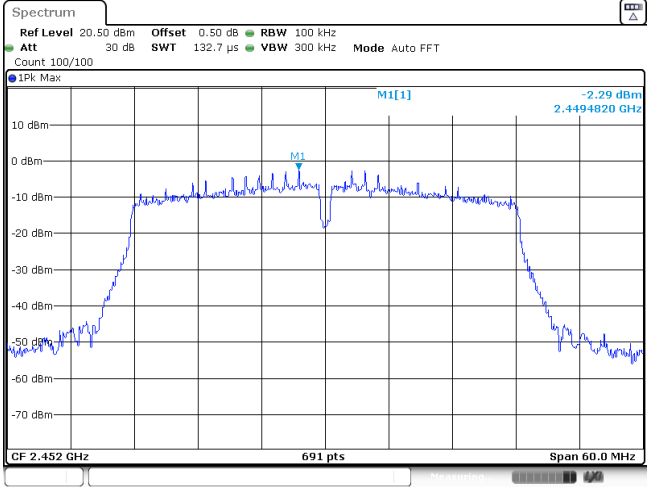
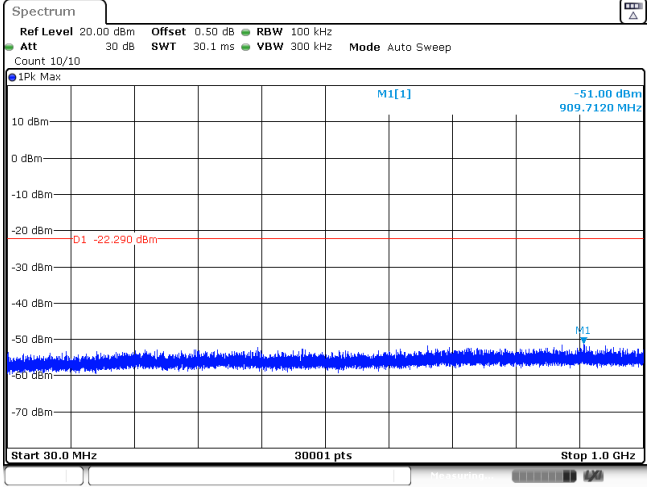
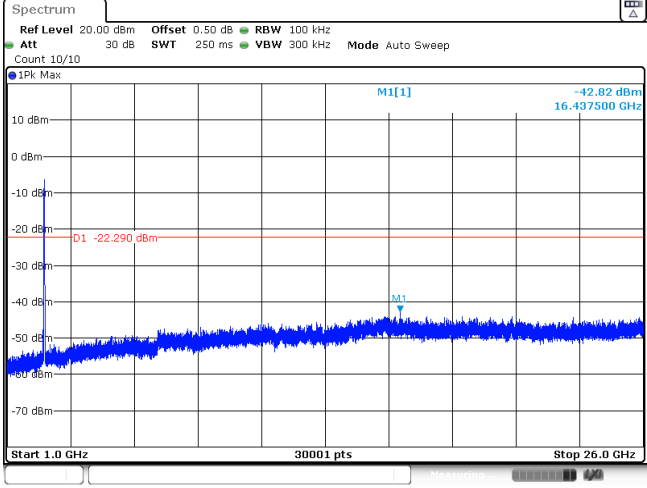


CH06
30MHz~1000MHz



CH06
1GHz~26GHz



CH09 Reference level	
CH09 30MHz~1000MHz	
CH09 1GHz~26GHz	

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