

TEST REPORT

Report No.	CISRR25070906502
Project No.	CISR250709065
FCC ID	2BQSZ-ATS25PRO
Applicant	Shenzhen Qiaofang Trading Co., LTD
Address	Room 403, Building B, City Mountain Sea Dinghui, No. 37, Longjing 'ao Road, Yangmei Community, Bantian Sub-district, Longgang District, Shenzhen City
Manufacturer	Shenzhen Qiaofang Trading Co., LTD
Address	Room 403, Building B, City Mountain Sea Dinghui, No. 37, Longjing 'ao Road, Yangmei Community, Bantian Sub-district, Longgang District, Shenzhen City
Product Name	si4732 radio
Trademark	buloti
Model/Type reference	ATS25PRO+
Listed Model(s)	N/A
Standard	47 CFR Part 15.247
Test date	July 11, 2025 to July 16, 2025
Issue date	July 16, 2025
Test result	Complied

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Approved by: Genry Long

The test results relate only to the tested samples.

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1. REPORT VERSION

Version No.	Issue date	Description
00	July 16, 2025	Original

2. TEST DESCRIPTION

No.	Test Item	Standard Requirement	Result
1	Antenna Requirement	47 CFR 15.203	Pass
2	Conducted Emission at AC power line	47 CFR 15.207(a)	Pass
3	6dB Bandwidth	47 CFR 15.247(a)(2)	Pass
4	Maximum Conducted Output Power	47 CFR 15.247(b)(3)	Pass
5	Power Spectral Density	47 CFR 15.247(e)	Pass
6	Conducted band edge and spurious emission	47 CFR 15.247(d)	Pass
7	Radiated band edge emission	47 CFR 15.247(d), 15.209, 15.205	Pass
8	Radiated Spurious Emission (below 1GHz)	47 CFR 15.247(d), 15.209, 15.205	Pass
9	Radiated Spurious Emission (Above 1GHz)	47 CFR 15.247(d), 15.209, 15.205	Pass

Note:

- The measurement uncertainty is not included in the test result.

3. SUMMARY

3.1. Product Description *

Main unit information:	
Product Name:	si4732 radio
Trade Mark:	buloti
Model No.:	ATS25PRO+
Listed Model(s):	N/A
Model difference:	N/A
Power supply:	Input: DC 5V
Hardware version:	N/A
Software version:	N/A
Accessory unit (AU) information:	
Battery information:	DC 3.7V

3.2. Radio Specification Description *

Modulation type:	802.11b: DSSS(CCK, DQPSK, DBPSK); 802.11g/n(HT20)/n(HT40): OFDM(BPSK, QPSK, 16QAM, 64QAM)
Operation frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz; 802.11n(HT40): 2422MHz to 2452MHz
Channel number:	802.11b/g/n(HT20): 11 Channels; 802.11n(HT40): 7 Channels
Channel separation:	5MHz
Antenna type:	PCB Antenna
Antenna gain:	1.7dBi

Note:

- 1) *: Since the above information is provided by the applicant relevant results or conclusions of this report are only made for these information, Bangce is not responsible for the authenticity, integrity and results of the information and/or the validity of the conclusion.
- 2) Operation frequency list as follow:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	5	2432	9	2452
2	2417	6	2437	10	2457
3	2422	7	2442	11	2462
4	2427	8	2447	/	/

3.3. Modification of EUT

No modifications are made to the EUT during all test items.

3.4. Deviation from standards

None

3.5. Testing Site

Laboratory Name	Shenzhen Bangce Testing Technology Co., Ltd.
Laboratory Location	101, building 10, Yunli Intelligent Park, Shutianpu community, Matian Street, Guangming District, Shenzhen, Guangdong, China
Contact information	Tel: 86-755-2319 6848, email: service@cis-cn.net Website: http://www.cis-cn.net/
FCC registration number	736346
FCC designation number	CN1372

4. TEST CONFIGURATION

4.1. Test frequency list

Bandwidth (MHz)	Lowest Channel (LCH) (MHz)	Middle Channel (MCH) (MHz)	Highest Channel (HCH) (MHz)
20	2412	2437	2462
40	2422	2437	2452

4.2. Descriptions of test mode

No	Test mode	Description
TM1	802.11b mode	Keep the EUT in 802.11b transmitting mode at lowest, middle and highest channel.
TM2	802.11g mode	Keep the EUT in 802.11g transmitting mode at lowest, middle and highest channel.
TM3	802.11n(HT20) mode	Keep the EUT in 802.11n(HT20) transmitting mode at lowest, middle and highest channel.
TM4	802.11n(HT40) mode	Keep the EUT in 802.11n(HT40) transmitting mode at lowest, middle and highest channel.
TM5	Link mode	Keep the EUT in WiFi linking mode with AE.
TM6	Charging mode	Keep the EUT in charging mode status

4.3. Support unit used in test configuration

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:

Item	Equipment name	Trade Name	Model No.
1	Adapter	Guangdong Sangu Technology Co. Ltd	SG-0501000AU
2	Phone	Huawei	NZONE S7

4.4. Test sample information

Type	Sample No.
Engineer sample	CISR250709065-S01
Normal sample	CISR250709065-S02

4.5. Environmental conditions

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

4.6. Statement of the measurement uncertainty

No.	Test Items	Measurement Uncertainty
1	AC Conducted Emission	1.63dB
2	Peak Output Power	1.34dB
3	Power Spectral Density	1.34dB
4	6dB Bandwidth	0.002%
5	Duty cycle	-
6	Conducted Band Edge and Spurious Emission	1.93dB
7	Radiated Band Edge Emission	3.76dB for 30MHz-1GHz 3.80dB for above 1GHz
8	Radiated Spurious Emission	3.76dB for 30MHz-1GHz 3.80dB 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

Conducted Emission at AC power line						
Item	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	EMI Test Receiver	Rohde&schwarz	ESCI7	100853	2025-01-08	2026-01-07
2	Artificial power network	Schwarzbeck	NSLK8127	8127-01096	2025-01-08	2026-01-07
3	8-wire Impedance Stabilization Network	Schwarzbeck	NTFM 8158	8158-00337	2025-01-08	2026-01-07
4	Artificial power network	Schwarzbeck	ENV216	/	2025-01-08	2026-01-07

Power Spectral Density Emissions in non-restricted frequency bands 6dB Bandwidth Maximum Conducted Output Power						
Item	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	MXG RF Signal Generator	Agilent	N5181A	MY50145362	2025-01-08	2026-01-07
2	Spectrum analyzer	R&S	FSV-40N	102130	2025-01-08	2026-01-07
3	Vector Signal Generator	Agilent	N5182A	MY50142364	2025-01-08	2026-01-07
4	Power Meter	WCS	WCS-PM	WCSPM230405A	2025-01-08	2026-01-07

Band edge emissions (Radiated)

Emissions in frequency bands (below 1GHz)
Emissions in frequency bands (above 1GHz)

Item	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	EMI Test Receiver	Rohde&schwarz	ESCI7	100853	2025-01-08	2026-01-07
2	Amplifier	Tonscend	TAP9K3G 40	AP23A806027 0	2025-01-08	2026-01-07
3	Prime amplifier	Tonscend	TAP0101 8050	AP23A806028 0	2025-01-08	2026-01-07
4	9*6*6 anechoic chamber	SKET	9.3*6.3*6	N/A	2024-09-02	2027-09-01
5	Spectrum analyzer	Agilent	N9020A	MY50530263	2025-01-08	2026-01-07
6	Spectrum analyzer	R&S	FSV-40N	102130	2025-01-08	2026-01-07
7	Bilog Antenna	Schwarzbeck	VULB 9163	1463	2023-01-09	2026-01-08
8	Horn Antenna	SCHWARZBECK	BBHA 9120 D	2487	2023-01-09	2026-01-08
9	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	/	2023-01-09	2026-01-08
10	RF Cable	Tonscend	Cable 1	/	2025-01-08	2026-01-07
11	RF Cable	Tonscend	Cable 2	/	2025-01-08	2026-01-07
12	RF Cable	SKET	Cable 3	/	2025-01-08	2026-01-07
13	L.I.S.N.#1	Schwarzbeck	NSLK812 7	/	2025-01-08	2026-01-07
14	L.I.S.N.#2	ROHDE&SCHWARZ	ENV216	/	2025-01-08	2026-01-07
15	Horn Antenna	SCHWARZBECK	BBHA917 0	1130	2023-01-09	2026-01-08
16	Preamplifier	Tonscend	TAP1804 0048	AP21C806126	2025-01-08	2026-01-07
17	Variable-frequency power source	Pinhong	PH1110	/	2025-01-08	2026-01-07
18	6dB Attenuator	SKET	DC-6G	/	2025-01-08	2026-01-07
19	Antenna tower	SKT	Bk-4AT- BS	AT202104010 1-V1	2025-01-08	2026-01-07

5. TEST RESULTS

5.1. Evaluation Results (Evaluation)

5.1.1. Antenna Requirement

Test Requirement:	Refer to 47 CFR Part 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 shall be considered sufficient to comply with the provisions of this section.
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5.1.1.1. Test Result

Pass

5.1.1.2. Conclusion:

The EUT antenna is PCB Antenna(1.7dBi), the directional gain of the antenna less than 6dBi. It comply with the standard requirement. In case of replacement of broken antenna the same antenna type must be used. Antenna structure please refer to the EUT internal photographs antenna photo.

5.2. Radio Spectrum Matter Test Results (RF)

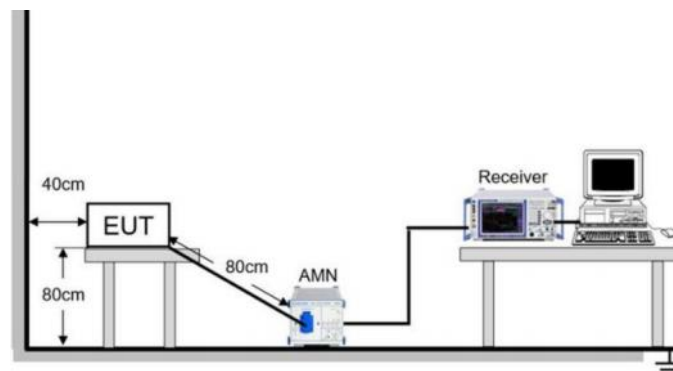
5.2.1. Conducted Emission at AC power line

Test Requirement:	Refer to 47 CFR 15.207(a), Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN).		
Test Limit:	Frequency of emission (MHz)	Conducted limit (dB μ V)	
		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 Method:	ANSI C63.10-2020 section 6.2		
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. (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.		

5.2.1.1. E.U.T. Operation

Operating Environment:					
Temperature:	22.1 °C	Humidity:	55.5 %	Atmospheric Pressure:	102 kPa
Pre test mode:	TM5				
Final test mode:	TM5				

5.2.1.2. Test Setup Diagram

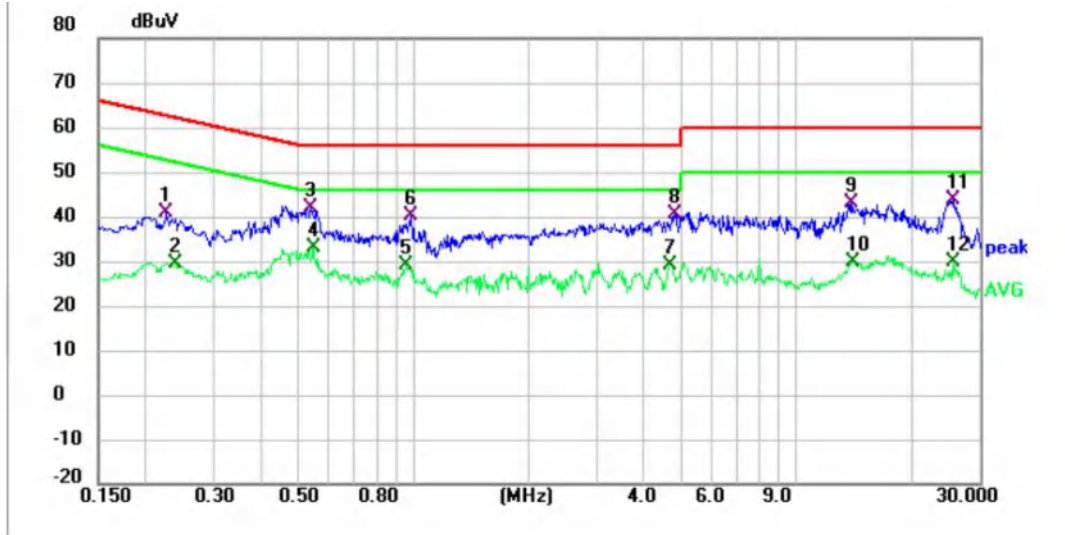


5.2.1.3. Test Result

Pass

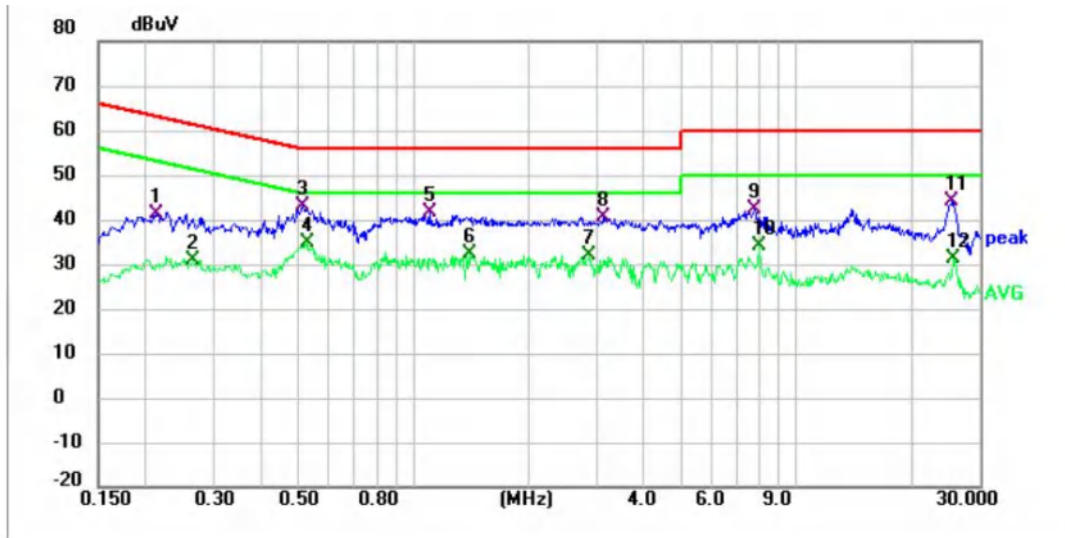
5.2.1.4. Test Data

Mode5 / Line: Line



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2260	30.72	10.33	41.05	62.60	-21.55	QP
2	0.2380	19.23	10.33	29.56	52.17	-22.61	AVG
3	0.5380	31.70	10.38	42.08	56.00	-13.92	QP
4 *	0.5460	22.68	10.38	33.06	46.00	-12.94	AVG
5	0.9580	18.77	10.43	29.20	46.00	-16.80	AVG
6	0.9860	29.76	10.43	40.19	56.00	-15.81	QP
7	4.6740	17.41	11.65	29.06	46.00	-16.94	AVG
8	4.8460	28.72	11.71	40.43	56.00	-15.57	QP
9	13.8780	27.50	15.63	43.13	60.00	-16.87	QP
10	13.9980	14.22	15.69	29.91	50.00	-20.09	AVG
11	25.7220	28.76	15.07	43.83	60.00	-16.17	QP
12	25.7300	14.62	15.07	29.69	50.00	-20.31	AVG

Mode5 / Line: Neutral



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2116	30.85	10.32	41.17	63.14	-21.97	QP
2	0.2660	20.44	10.34	30.78	51.24	-20.46	AVG
3	0.5140	32.63	10.38	43.01	56.00	-12.99	QP
4 *	0.5260	24.38	10.38	34.76	46.00	-11.24	AVG
5	1.1019	31.00	10.46	41.46	56.00	-14.54	QP
6	1.4060	21.94	10.55	32.49	46.00	-13.51	AVG
7	2.8740	21.08	10.96	32.04	46.00	-13.96	AVG
8	3.1540	29.38	11.05	40.43	56.00	-15.57	QP
9	7.7900	29.49	13.00	42.49	60.00	-17.51	QP
10	8.0020	21.13	13.06	34.19	50.00	-15.81	AVG
11	25.4660	28.94	15.31	44.25	60.00	-15.75	QP
12	25.7620	15.84	15.28	31.12	50.00	-18.88	AVG

Note:

- 1). Result = Reading +Correct (Insertion Loss + Cable Loss + Attenuator Factor)
- 2). Margin =Level - Limit

5.2.2. 6dB Bandwidth

Test Requirement:	47 CFR 15.247(a)(2)
Test Limit:	Refer to 47 CFR 15.247(a)(2), Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
Test Method:	ANSI C63.10-2020, section 11.8
Procedure:	11.8.1 Option 1 The steps for the first option are as follows: - Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz. - Set the VBW $\geq [3 \times \text{RBW}]$. - Detector = peak. - Trace mode = max-hold. - Sweep = No faster than coupled (auto) time. - Allow the trace to stabilize. - Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-6 dB down amplitude”. If a marker is below this “-6 dB down amplitude” value, then it shall be as close as possible to this value. 11.8.2 Option 2 The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., RBW = 100 kHz, VBW $\geq 3 \times \text{RBW}$, and peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB.

5.2.2.1. E.U.T. Operation

Operating Environment:					
Temperature:	22.1 °C	Humidity:	55.5 %	Atmospheric Pressure:	102 kPa
Pre test mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM1, TM2, TM3, TM4				

5.2.2.2. Test Setup Diagram



5.2.2.3. Test Result

Pass

5.2.2.4. Test Data

Please Refer to Appendix Report for Details.

5.2.3. Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(3)
Test Limit:	Refer to 47 CFR 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.
Test Method:	ANSI C63.10-2020 section 11.9.1
Procedure:	ANSI C63.10-2020, section 11.9.1 Maximum peak conducted output power

5.2.3.1. E.U.T. Operation

Operating Environment:					
Temperature:	22.1 °C	Humidity:	55.5 %	Atmospheric Pressure:	102 kPa
Pre test mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM1, TM2, TM3, TM4				

5.2.3.2. Test Setup Diagram



5.2.3.3. Test Result

Pass

5.2.3.4. Test Data

Please Refer to Appendix Report for Details.

5.2.4. Power Spectral Density

Test Requirement:	47 CFR 15.247(e)
Test Limit:	Refer to 47 CFR 15.247(e), For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.
Test Method:	ANSI C63.10-2020, section 11.10
Procedure:	ANSI C63.10-2020, section 11.10, Maximum power spectral density level in the fundamental emission

5.2.4.1. E.U.T. Operation

Operating Environment:					
Temperature:	22.1 °C	Humidity:	55.5 %	Atmospheric Pressure:	102 kPa
Pre test mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM1, TM2, TM3, TM4				

5.2.4.2. Test Setup Diagram



5.2.4.3. Test Result

Pass

5.2.4.4. Test Data

Please Refer to Appendix Report for Details.

5.2.5. Conducted band edge and spurious emission

Test Requirement:	47 CFR 15.247(d)
Test Limit:	Refer to 47 CFR 15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.
Test Method:	ANSI C63.10-2020 section 11.11
Procedure:	ANSI C63.10-2020 Section 11.11.1, Section 11.11.2, Section 11.11.3

5.2.5.1. E.U.T. Operation

Operating Environment:					
Temperature:	22.1 °C	Humidity:	55.5 %	Atmospheric Pressure:	102 kPa
Pre test mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM1, TM2, TM3, TM4				

5.2.5.2. Test Setup Diagram



5.2.5.3. Test Result

Pass

5.2.5.4. Test Data

Please Refer to Appendix Report for Details.

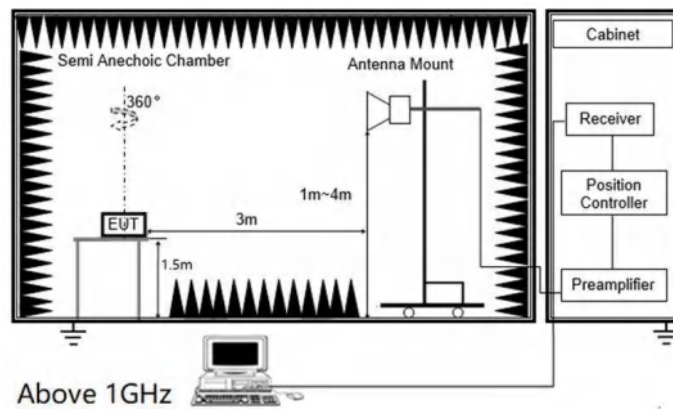
5.2.6. Radiated band edge emission

Test Requirement:	Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).`		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.			
Test Method:	ANSI C63.10-2020 section 6.10		
Procedure:	1. 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=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement For average measurement: use duty cycle correction factor method (DCCF), Averager level = Peak level + DCCF		

5.2.6.1. E.U.T. Operation

Operating Environment:					
Temperature:	22.8 °C	Humidity:	56.8 %	Atmospheric Pressure:	102 kPa
Pre test mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM1, TM2, TM3, TM4				

5.2.6.2. Test Setup Diagram



5.2.6.3. Test Result

Pass

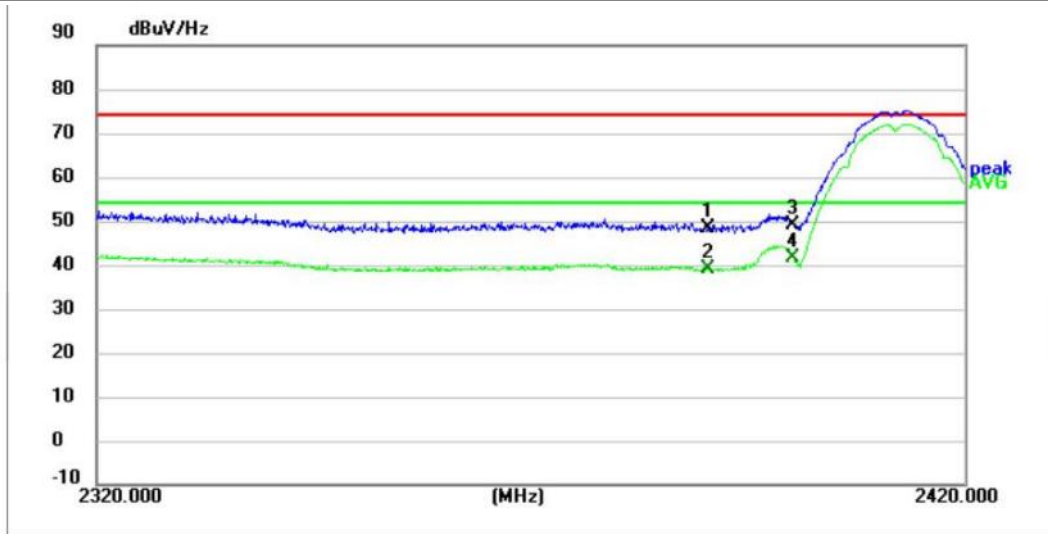
5.2.6.4. Test Data

Note:

- 1) Level= Reading + Factor; Factor =Antenna Factor+ Cable Loss- Preamp Factor
- 2) Margin =Level - Limit
- 3) Average measurement was not performed if peak level is lower than average limit
- 4) The other emission levels were very low against the limit.

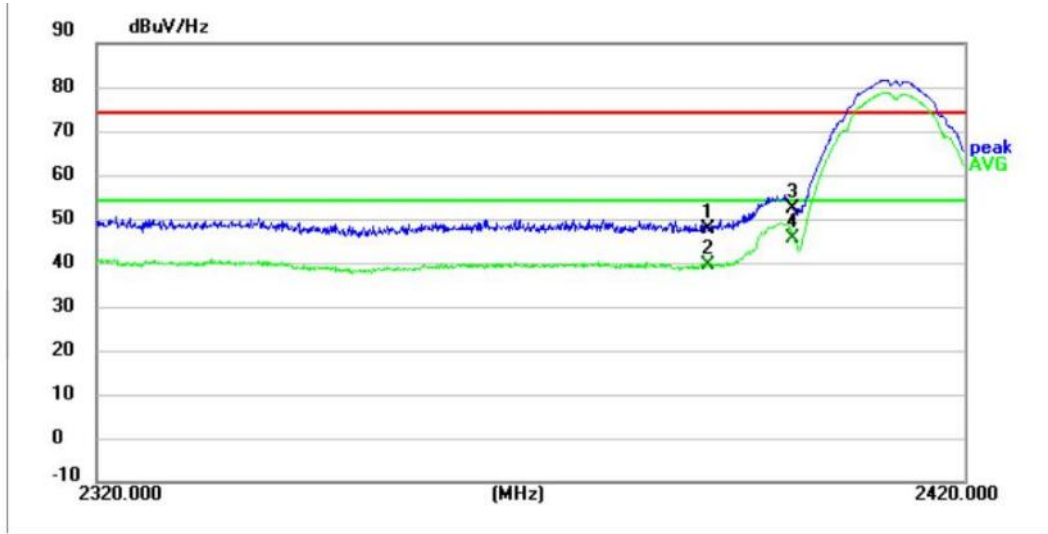
Have pre-scan all test mode, found TM1 11B mode which it was worst case, so only show the worst case's data on this report.

TM1 / Polarization: Horizontal / CH: L



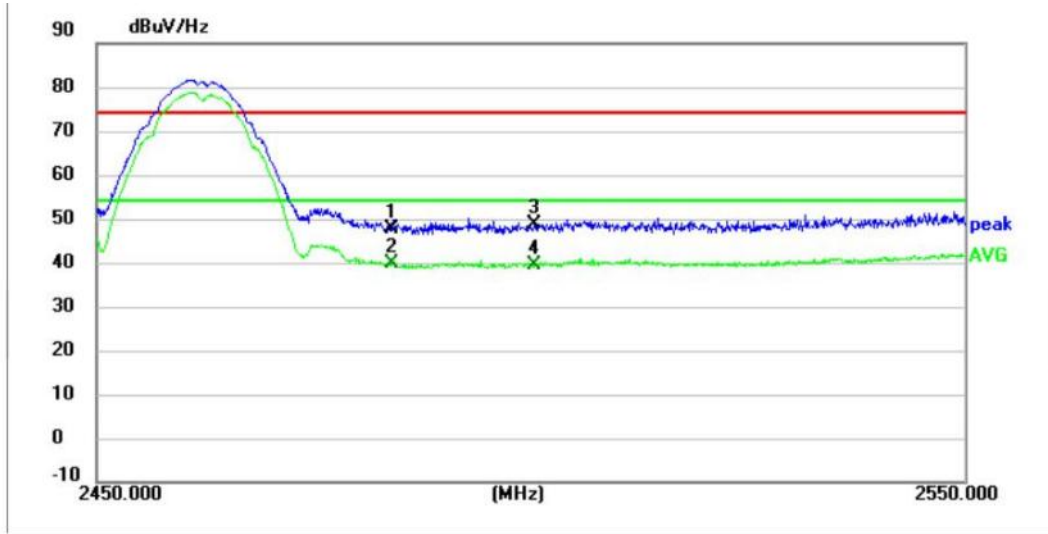
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	2390.0000	46.21	2.34	48.55	74.00	-25.45	peak
2	2390.0000	36.90	2.34	39.24	54.00	-14.76	AVG
3	2400.0000	46.83	2.38	49.21	74.00	-24.79	peak
4 *	2400.0000	39.22	2.38	41.60	54.00	-12.40	AVG

TM1 / Polarization: Vertical / CH: L



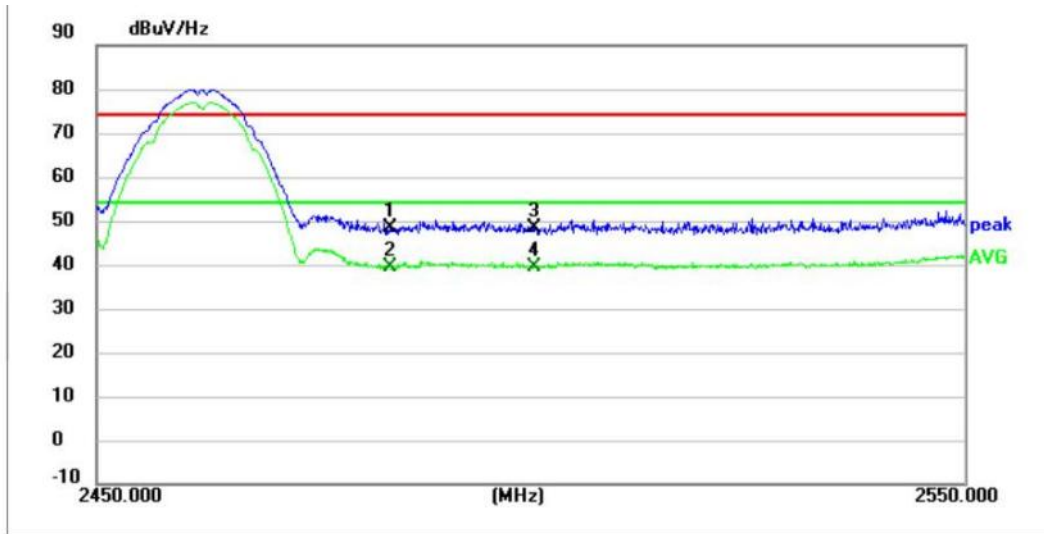
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	2390.0000	45.29	2.34	47.63	74.00	-26.37	peak
2	2390.0000	37.06	2.34	39.40	54.00	-14.60	AVG
3	2400.0000	49.80	2.38	52.18	74.00	-21.82	peak
4 *	2400.0000	43.02	2.38	45.40	54.00	-8.60	AVG

TM1 / Polarization: Horizontal / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	2483.5000	45.07	2.66	47.73	74.00	-26.27	peak
2 *	2483.5000	37.00	2.66	39.66	54.00	-14.34	AVG
3	2500.0000	46.08	2.80	48.88	74.00	-25.12	peak
4	2500.0000	36.70	2.80	39.50	54.00	-14.50	AVG

TM1 / Polarization: Vertical / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	2483.5000	45.72	2.66	48.38	74.00	-25.62	peak
2 *	2483.5000	36.82	2.66	39.48	54.00	-14.52	AVG
3	2500.0000	45.61	2.80	48.41	74.00	-25.59	peak
4	2500.0000	36.52	2.80	39.32	54.00	-14.68	AVG

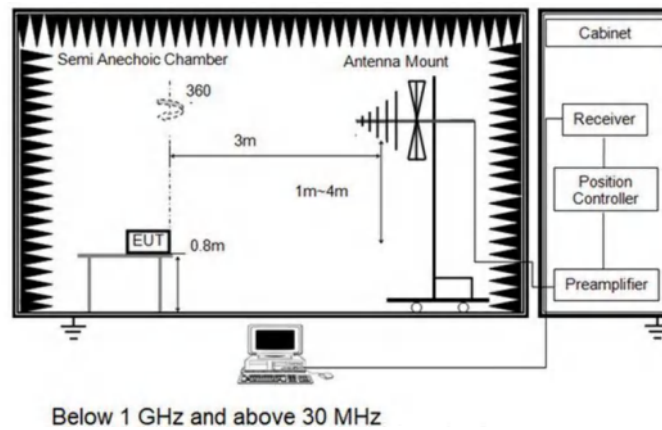
5.2.7. Radiated Spurious Emission (below 1GHz)

Test Requirement:	Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).`		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.			
Test Method:	ANSI C63.10-2020 section 6.6.4		
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) 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.		

5.2.7.1. E.U.T. Operation

Operating Environment:					
Temperature:	22.8 °C	Humidity:	56.8 %	Atmospheric Pressure:	102 kPa
Pre test mode:	TM1, TM2, TM3, TM4, TM5, TM6				
Final test mode:	TM1, TM2, TM3, TM4, TM5, TM6				

5.2.7.2. Test Setup Diagram



5.2.7.3. Test Result

Pass

5.2.7.4. Test Data

For 30 MHz ~ 1000 MHz

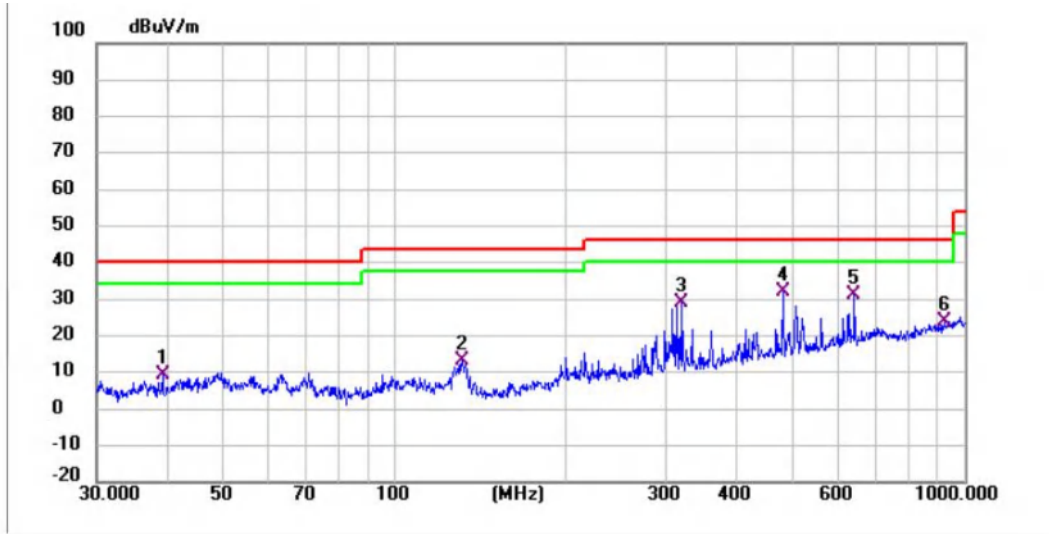
Have pre-scan all test mode, found TM1 11b mode which it was worst case, so only show the worst case's data on this report.

TM1 / Polarization: Horizontal / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	30.3172	37.46	-31.90	5.56	40.00	-34.44	QP
2	49.5328	38.93	-29.10	9.83	40.00	-30.17	QP
3	132.2205	52.84	-33.36	19.48	43.50	-24.02	QP
4	302.4811	64.83	-25.91	38.92	46.00	-7.08	QP
5 *	679.9600	56.11	-16.85	39.26	46.00	-6.74	QP
6	948.7610	37.52	-13.79	23.73	46.00	-22.27	QP

TM1 / Polarization: Vertical / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	39.1615	40.29	-31.02	9.27	40.00	-30.73	QP
2	131.2965	46.54	-33.33	13.21	43.50	-30.29	QP
3	319.9370	54.48	-25.59	28.89	46.00	-17.11	QP
4 *	480.5276	53.57	-21.60	31.97	46.00	-14.03	QP
5	640.6110	49.12	-17.87	31.25	46.00	-14.75	QP
6	922.5157	38.25	-14.36	23.89	46.00	-22.11	QP

Note:

1) For 9 kHz ~ 30 MHz Measurement

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.

2) Level= Reading + Factor; Factor =Antenna Factor+ Cable Loss- Preamp Factor

3) Margin =Level - Limit

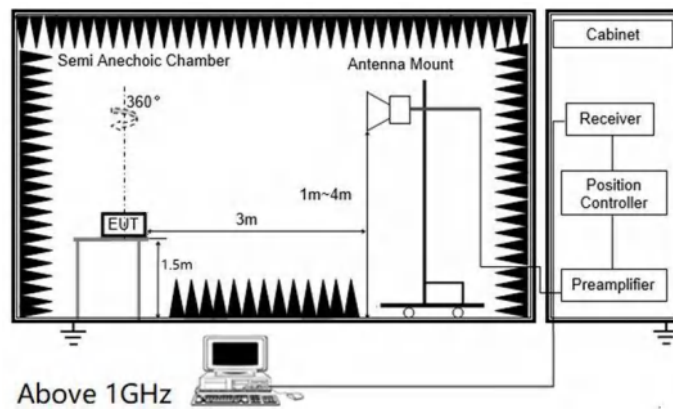
5.2.8. Radiated Spurious Emission (Above 1GHz)

Test Requirement:	Refer to 47 CFR 15.247(d), in addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).`		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.			
Test Method:	ANSI C63.10-2020 section 6.6.4		
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) Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement For average measurement: use duty cycle correction factor method (DCCF)Averager level = Peak level + DCCF		

5.2.8.1. E.U.T. Operation

Operating Environment:					
Temperature:	22.8 °C	Humidity:	56.8 %	Atmospheric Pressure:	102 kPa
Pre test mode:	TM1, TM2, TM3, TM4, TM5, TM6				
Final test mode:	TM1, TM2, TM3, TM4, TM5, TM6				

5.2.8.2. Test Setup Diagram



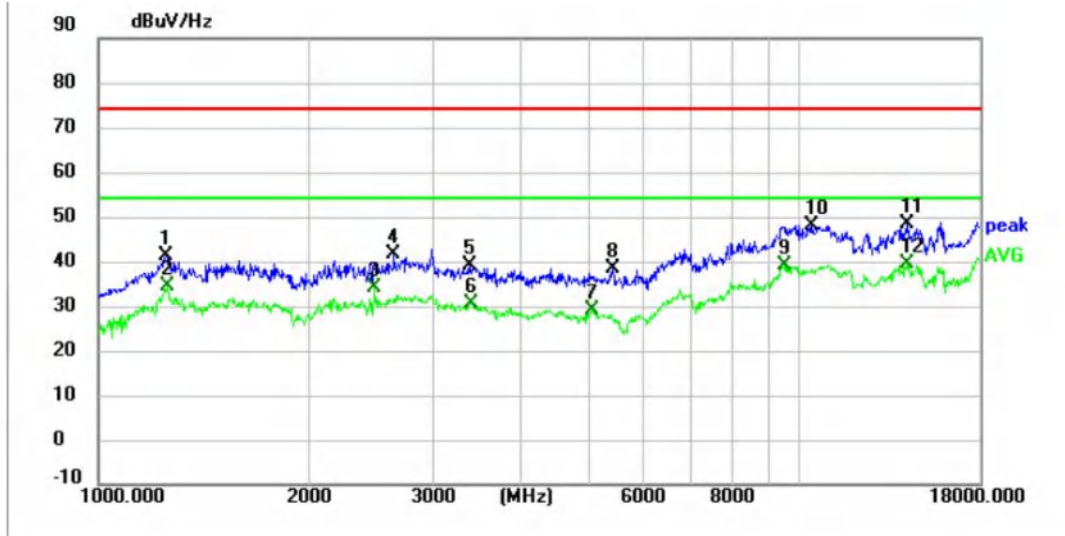
5.2.8.3. Test Result

Pass

5.2.8.4. Test Data

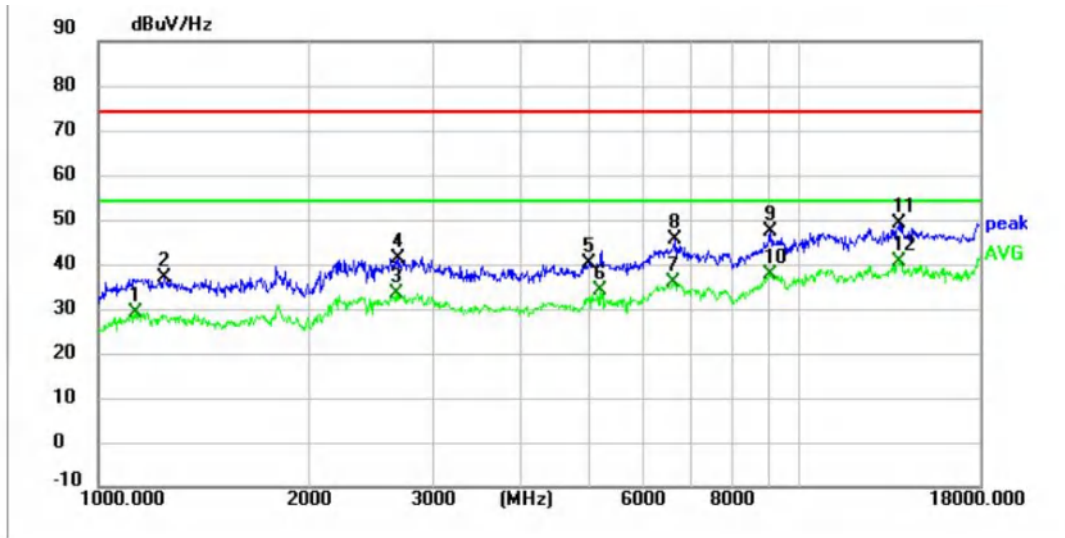
Have pre-scan all test mode, found TM1 11b mode which it was worst case, so only show the worst case's data on this report.

TM1 / Polarization: Horizontal / CH: L



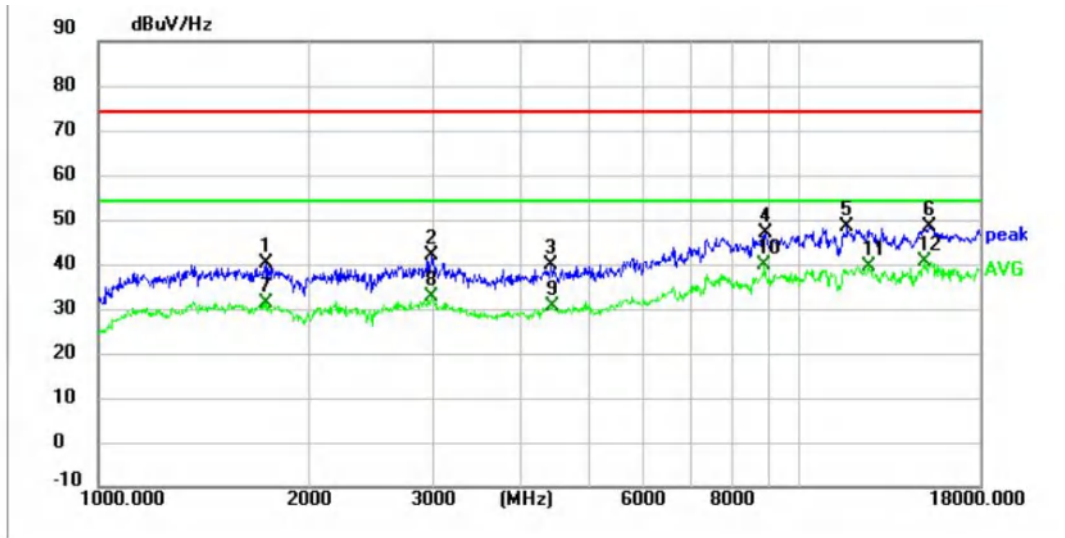
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	1251.6000	62.58	-21.37	41.21	74.00	-32.79	peak
2	1253.3000	55.73	-21.37	34.36	54.00	-19.64	AVG
3	2482.4000	51.10	-17.03	34.07	54.00	-19.93	AVG
4	2635.4000	57.56	-16.00	41.56	74.00	-32.44	peak
5	3380.0000	52.72	-13.74	38.98	74.00	-35.02	peak
6	3397.0000	44.38	-13.67	30.71	54.00	-23.29	AVG
7	5059.6000	37.47	-8.33	29.14	54.00	-24.86	AVG
8	5413.2000	44.80	-6.53	38.27	74.00	-35.73	peak
9	9494.9000	29.43	9.74	39.17	54.00	-14.83	AVG
10	10409.5000	36.21	11.78	47.99	74.00	-26.01	peak
11	14188.6000	29.94	18.62	48.56	74.00	-25.44	peak
12 *	14188.6000	20.71	18.62	39.33	54.00	-14.67	AVG

TM1 / Polarization: Vertical / CH: L



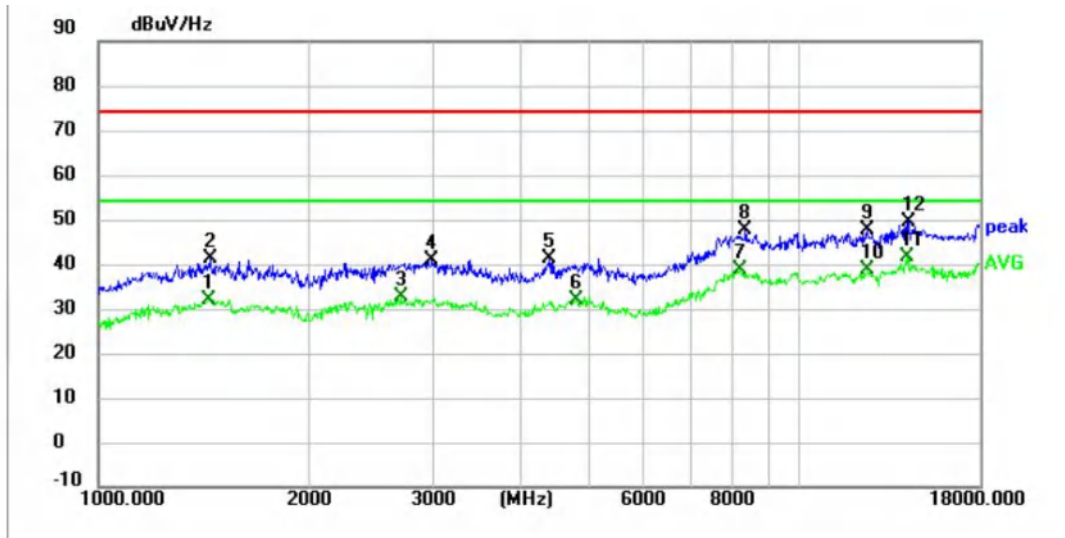
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	1129.2000	50.85	-21.68	29.17	54.00	-24.83	AVG
2	1244.8000	58.27	-21.38	36.89	74.00	-37.11	peak
3	2659.2000	49.25	-15.89	33.36	54.00	-20.64	AVG
4	2686.4000	57.15	-15.80	41.35	74.00	-32.65	peak
5	5001.8000	49.02	-8.73	40.29	74.00	-33.71	peak
6	5200.7000	42.07	-7.98	34.09	54.00	-19.91	AVG
7	6613.4000	35.73	0.25	35.98	54.00	-18.02	AVG
8	6632.1000	45.09	0.46	45.55	74.00	-28.45	peak
9	9056.3000	38.71	8.46	47.17	74.00	-26.83	peak
10	9056.3000	29.10	8.46	37.56	54.00	-16.44	AVG
11	13824.8000	31.23	17.94	49.17	74.00	-24.83	peak
12 *	13824.8000	22.49	17.94	40.43	54.00	-13.57	AVG

TM1 / Polarization: Horizontal / CH: M



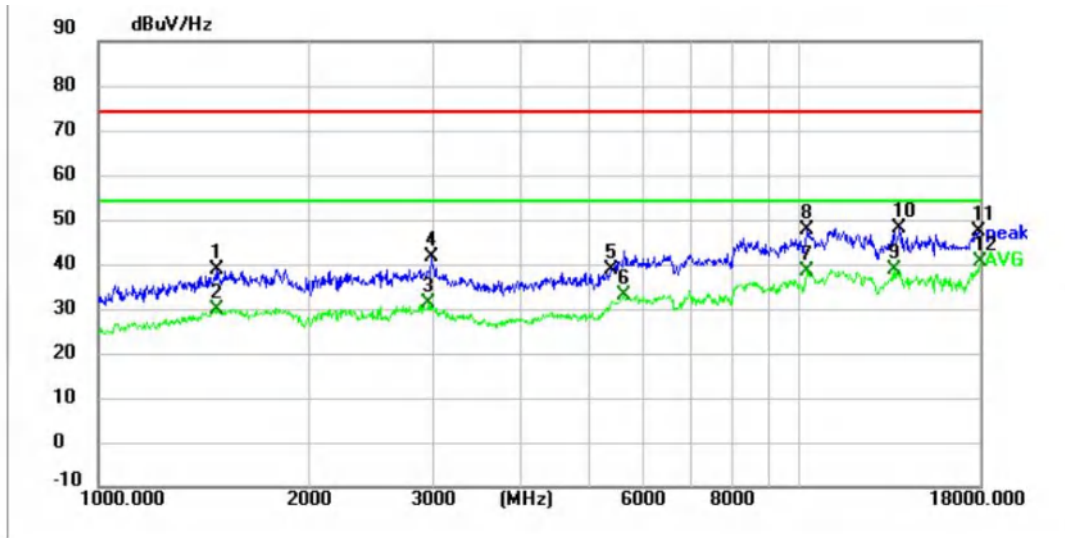
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	1732.7000	60.10	-19.89	40.21	74.00	-33.79	peak
2	2989.0000	56.70	-14.65	42.05	74.00	-31.95	peak
3	4420.4000	50.84	-11.18	39.66	74.00	-34.34	peak
4	8961.1000	38.83	8.19	47.02	74.00	-26.98	peak
5	11684.5000	34.27	14.10	48.37	74.00	-25.63	peak
6	15307.2000	30.62	17.61	48.23	74.00	-25.77	peak
7	1732.7000	51.00	-19.89	31.11	54.00	-22.89	AVG
8	2989.0000	47.20	-14.65	32.55	54.00	-21.45	AVG
9	4442.5000	41.65	-11.07	30.58	54.00	-23.42	AVG
10	8916.9000	31.81	8.07	39.88	54.00	-14.12	AVG
11	12520.9000	24.47	15.02	39.49	54.00	-14.51	AVG
12 *	15025.0000	22.84	17.69	40.53	54.00	-13.47	AVG

TM1 / Polarization: Vertical / CH: M



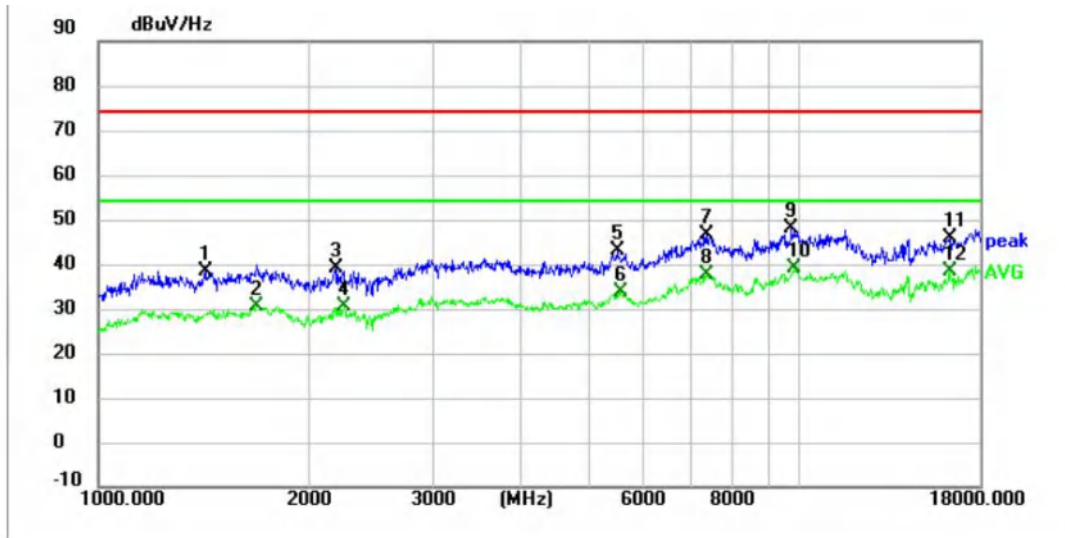
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	1438.6000	53.04	-20.90	32.14	54.00	-21.86	AVG
2	1445.4000	62.01	-20.85	41.16	74.00	-32.84	peak
3	2698.3000	48.37	-15.75	32.62	54.00	-21.38	AVG
4	2992.4000	55.59	-14.65	40.94	74.00	-33.06	peak
5	4401.7000	52.43	-11.27	41.16	74.00	-32.84	peak
6	4814.8000	41.77	-9.78	31.99	54.00	-22.01	AVG
7	8202.9000	32.03	6.73	38.76	54.00	-15.24	AVG
8	8349.1000	40.53	6.99	47.52	74.00	-26.48	peak
9	12451.2000	32.75	14.95	47.70	74.00	-26.30	peak
10	12480.1000	23.69	14.99	38.68	54.00	-15.32	AVG
11 *	14181.8000	23.11	18.61	41.72	54.00	-12.28	AVG
12	14258.3000	30.96	18.52	49.48	74.00	-24.52	peak

TM1 / Polarization: Horizontal / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	1476.0000	59.52	-20.77	38.75	74.00	-35.25	peak
2	1476.0000	50.54	-20.77	29.77	54.00	-24.23	AVG
3	2963.5000	45.88	-14.75	31.13	54.00	-22.87	AVG
4	2989.0000	56.43	-14.65	41.78	74.00	-32.22	peak
5	5408.1000	45.25	-6.46	38.79	74.00	-35.21	peak
6	5624.0000	39.48	-6.56	32.92	54.00	-21.08	AVG
7	10225.9000	26.76	11.51	38.27	54.00	-15.73	AVG
8	10251.4000	36.10	11.55	47.65	74.00	-26.35	peak
9	13624.2000	21.30	17.39	38.69	54.00	-15.31	AVG
10	13874.1000	30.11	18.10	48.21	74.00	-25.79	peak
11	17998.3000	23.13	24.12	47.25	74.00	-26.75	peak
12 *	18000.0000	16.52	24.13	40.65	54.00	-13.35	AVG

TM1 / Polarization: Vertical / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	1421.6000	59.42	-20.99	38.43	74.00	-35.57	peak
2	1680.0000	50.91	-20.20	30.71	54.00	-23.29	AVG
3	2176.4000	57.17	-17.89	39.28	74.00	-34.72	peak
4	2246.1000	48.25	-17.70	30.55	54.00	-23.45	AVG
5	5501.6000	49.78	-6.73	43.05	74.00	-30.95	peak
6	5554.3000	40.33	-6.64	33.69	54.00	-20.31	AVG
7	7359.7000	41.67	4.84	46.51	74.00	-27.49	peak
8	7359.7000	32.94	4.84	37.78	54.00	-16.22	AVG
9	9736.3000	37.53	10.36	47.89	74.00	-26.11	peak
10 *	9795.8000	28.44	10.59	39.03	54.00	-14.97	AVG
11	16328.9000	29.12	16.63	45.75	74.00	-28.25	peak
12	16328.9000	21.82	16.63	38.45	54.00	-15.55	AVG

Note:

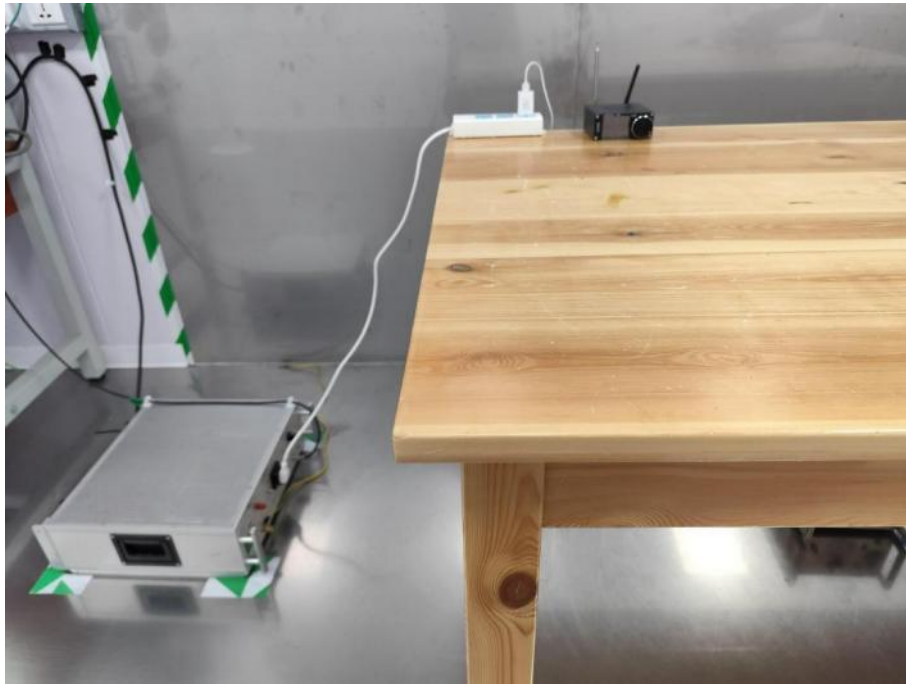
1) Level= Reading + Factor; Factor =Antenna Factor+ Cable Loss- Preamp Factor

2) Margin =Level - Limit

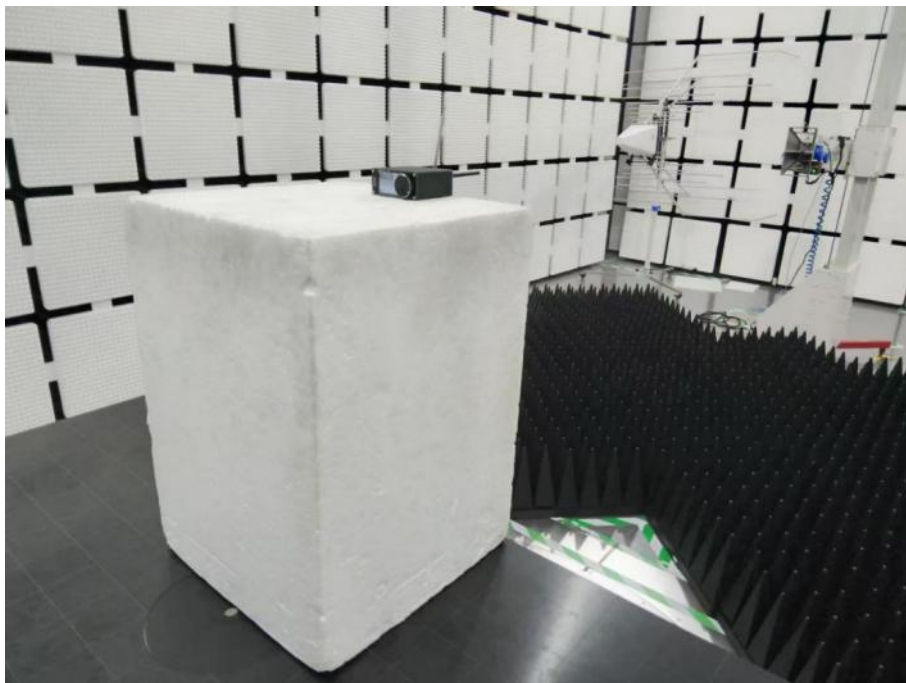
3) Average measurement was not performed if peak level is lower than average limit (54dBuV/m) for above 1GHz.

6. TEST SETUP PHOTOS

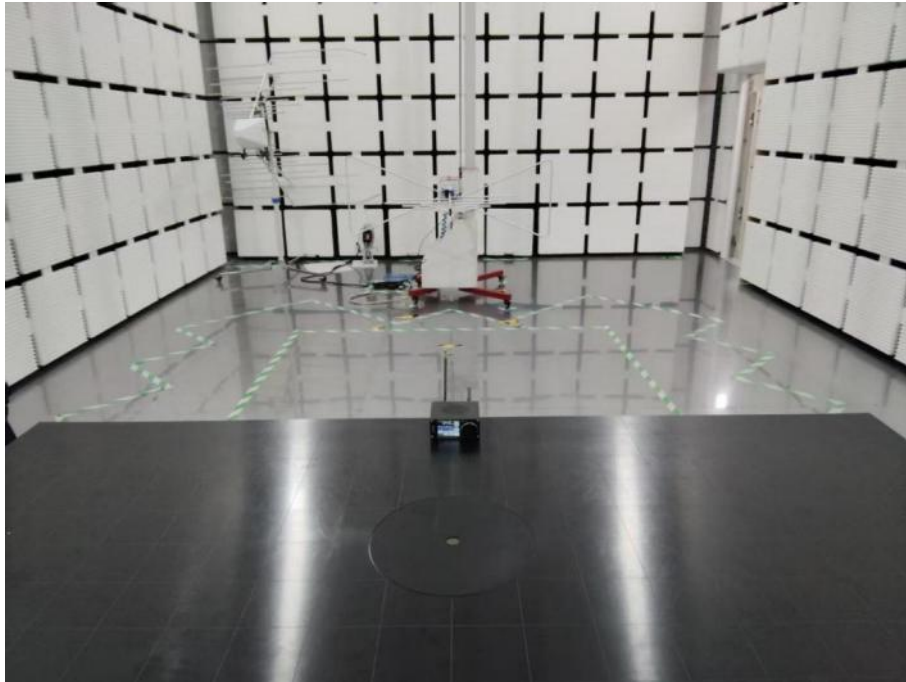
Conducted Emission at AC power line



Radiated band edge emission
Radiated Spurious Emission (Above 1GHz)



Radiated Spurious Emission (below 1GHz)



7. EXTERNAL AND INTERNAL PHOTOS

7.1. External Photos

Please refer to RF report: CISRR25070906501

7.2. Internal Photos

Please refer to RF report: CISRR25070906501

8. Appendix Report

Appendix Report

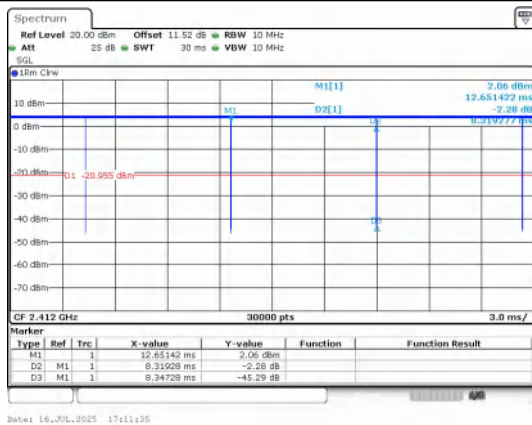
Project No.:	CISR250709065
Test Engineer:	James Wang
Supervised by:	Rory Huang

8.1. Duty Cycle

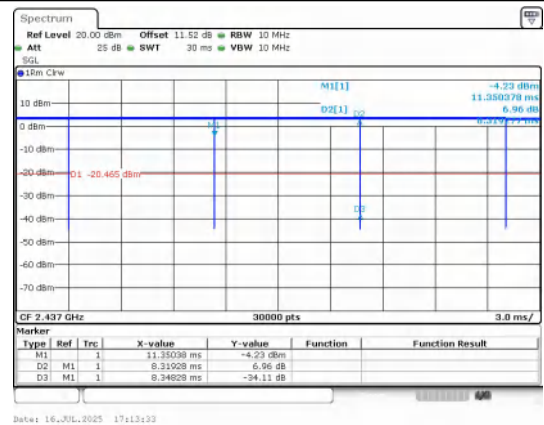
Test Result

Mode	Data rates	Channel	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
IEEE 802.11b	1	1	1	8.319	8.347	99.66	0.9966	0.0148	0.1202
		6		8.319	8.348	99.65	0.9965	0.0152	0.1202
		11		8.340	8.369	99.66	0.9966	0.0148	0.1199
IEEE 802.11g	1	1		1.396	1.429	97.69	0.9769	0.1015	0.7163
		6		1.396	1.430	97.62	0.9762	0.1046	0.7163
		11		1.396	1.429	97.69	0.9769	0.1015	0.7163
IEEE 802.11n_20	MCS 0	1		1.292	1.326	97.44	0.9744	0.1126	0.7740
		6		1.292	1.326	97.44	0.9744	0.1126	0.7740
		11		1.292	1.326	97.44	0.9744	0.1126	0.7740
IEEE 802.11n_40	MCS 0	3		0.650	0.684	94.94	0.9494	0.2255	1.5385
		6		0.650	0.684	95.00	0.9500	0.2228	1.5385
		9		0.650	0.684	94.94	0.9494	0.2255	1.5385

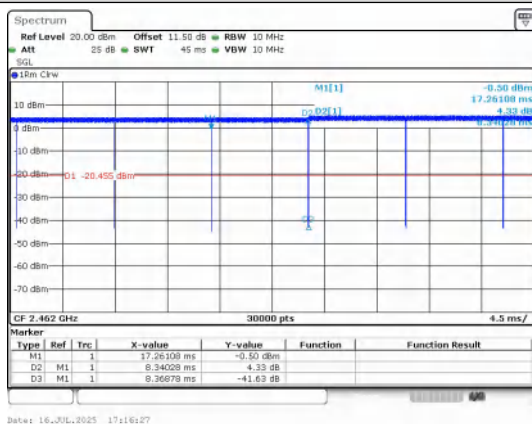
Test Graphs



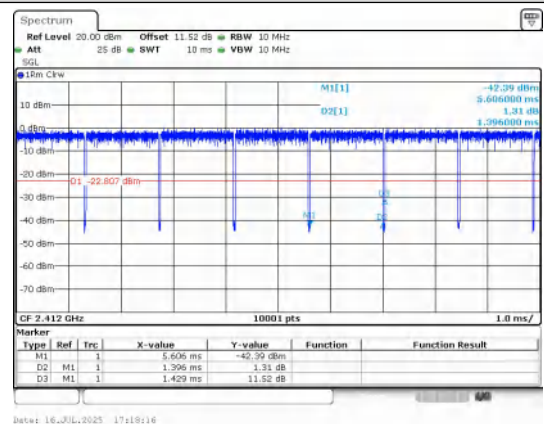
IEEE 802.11b_20MHz_Channel 1



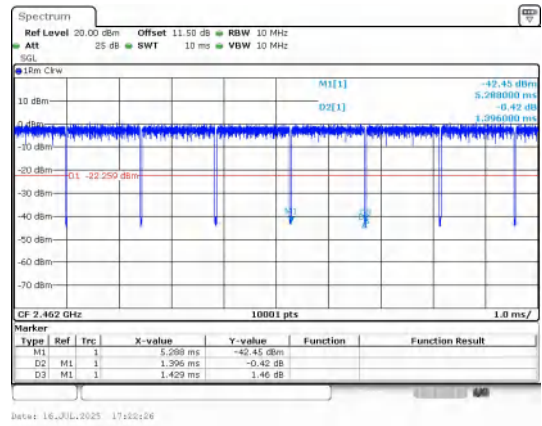
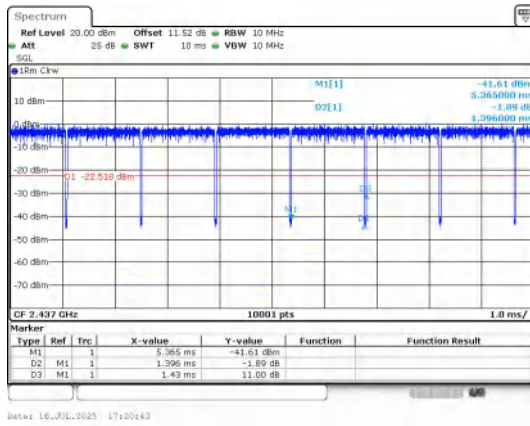
IEEE 802.11b_20MHz_Channel 6



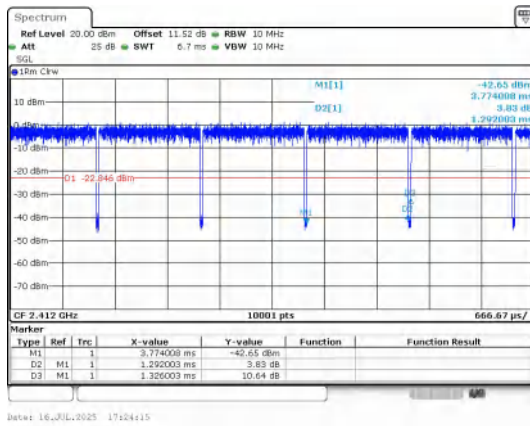
IEEE 802.11b_20MHz_Channel 11



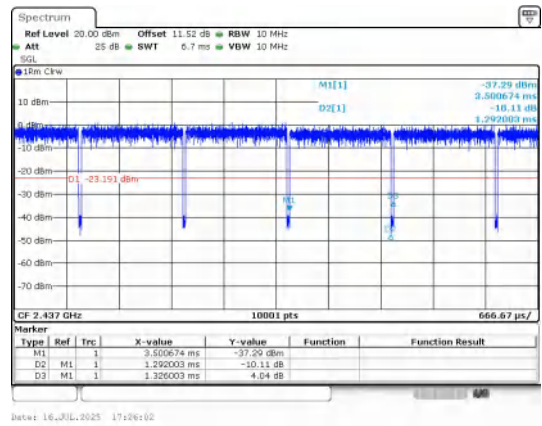
IEEE 802.11g_20MHz_Channel 1



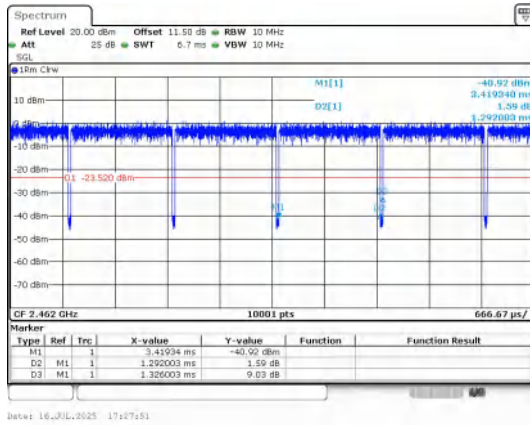
IEEE 802.11g_20MHz_Channel 6



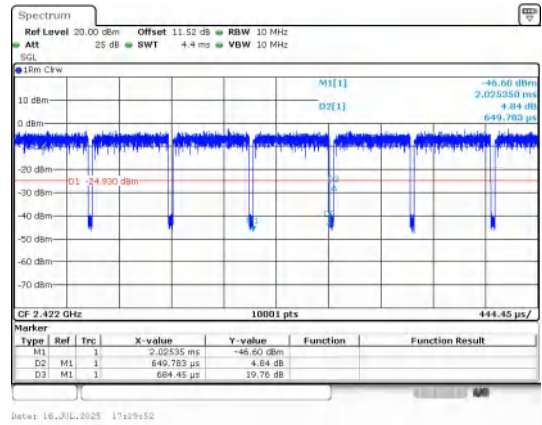
IEEE 802.11g_20MHz_Channel 11



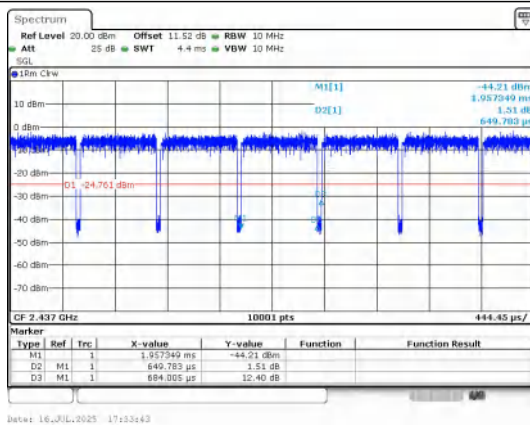
IEEE 802.11n_20MHz_Channel 1



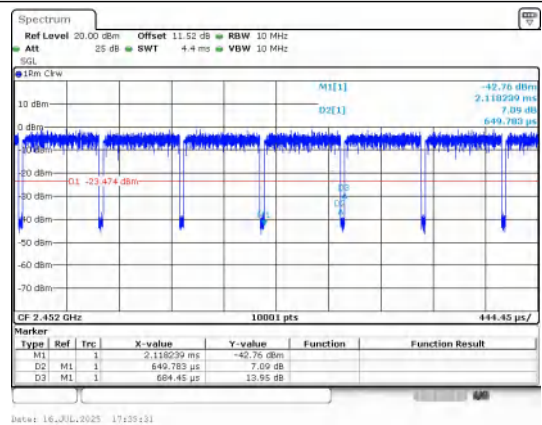
IEEE 802.11n_20MHz_Channel 6



IEEE 802.11n_20MHz_Channel 11



IEEE 802.11n_40MHz_Channel 3



IEEE 802.11n_40MHz_Channel 6

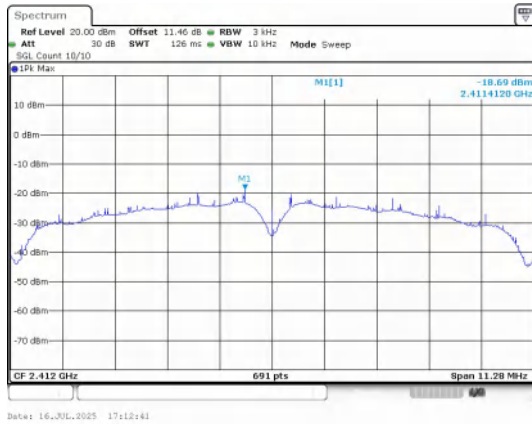
IEEE 802.11n_40MHz_Channel 9

8.2. Power Spectral Density

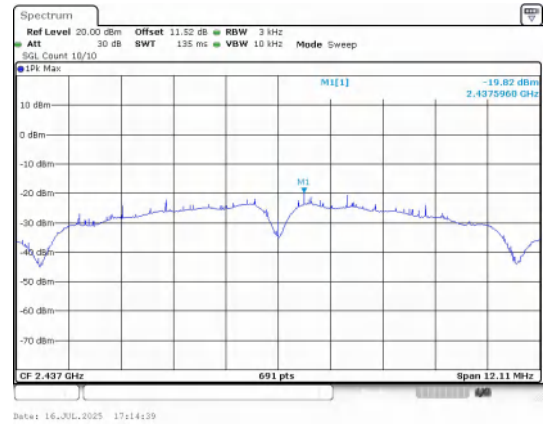
Test Result

Mode	Channel	PSD (dBm/3kHz) Ant. 0	Limit (dBm/3kHz)	Result
IEEE 802.11b	1	-18.690	≤8	PASS
	6	-19.820		PASS
	11	-21.430		PASS
IEEE 802.11g	1	-24.090		PASS
	6	-27.830		PASS
	11	-26.260		PASS
IEEE 802.11n_20	1	-24.520		PASS
	6	-28.160		PASS
	11	-25.120		PASS
IEEE 802.11n_40	3	-27.820		PASS
	6	-27.600		PASS
	9	-27.740		PASS

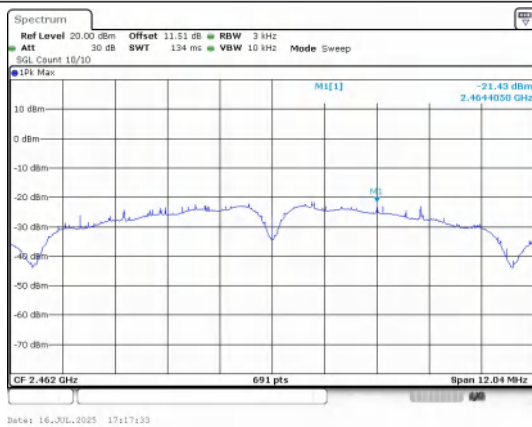
Test Graphs



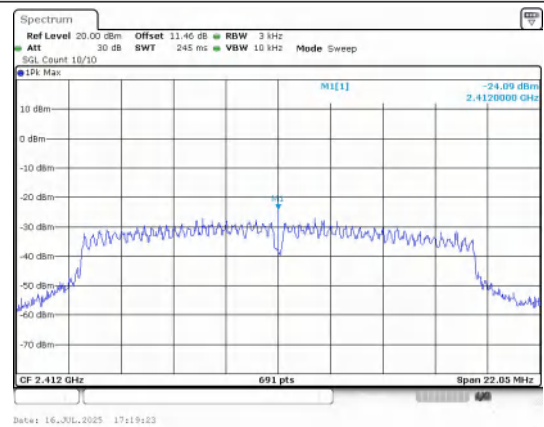
IEEE 802.11b_Channel 1_20MHz_Antenna 0



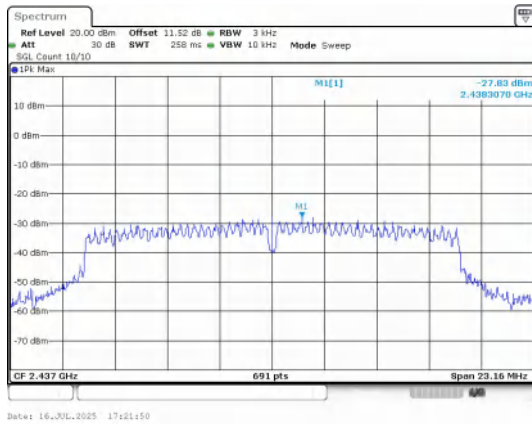
IEEE 802.11b_Channel 6_20MHz_Antenna 0



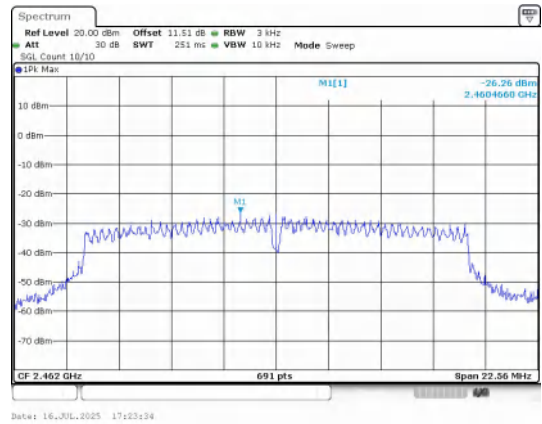
IEEE 802.11b_Channel 11_20MHz_Antenna 0



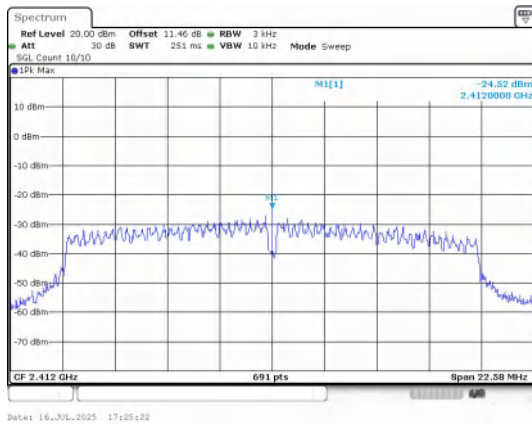
IEEE 802.11g_Channel 1_20MHz_Antenna 0



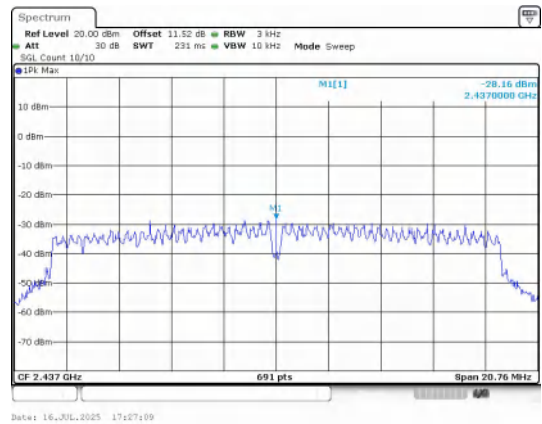
IEEE 802.11g_Channel 6_20MHz_Antenna 0



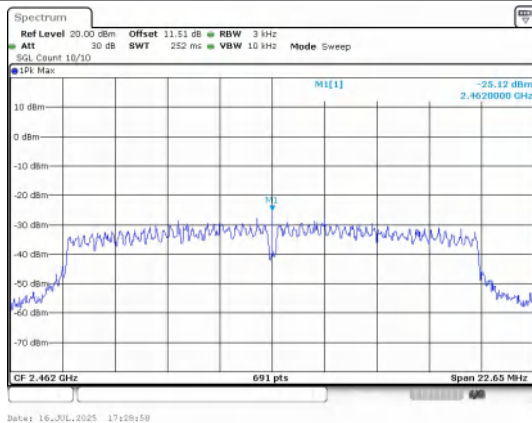
IEEE 802.11g_Channel 11_20MHz_Antenna 0



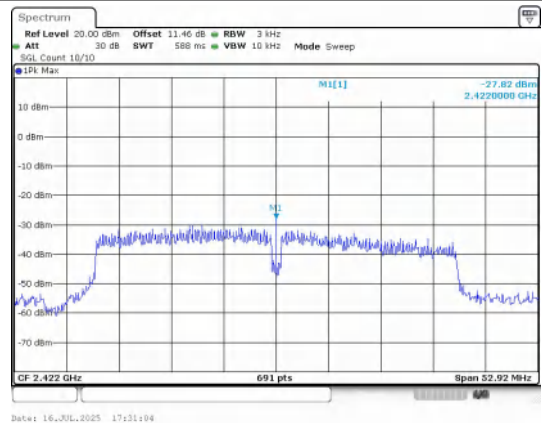
IEEE 802.11n_Channel 1_20MHz_Antenna 0



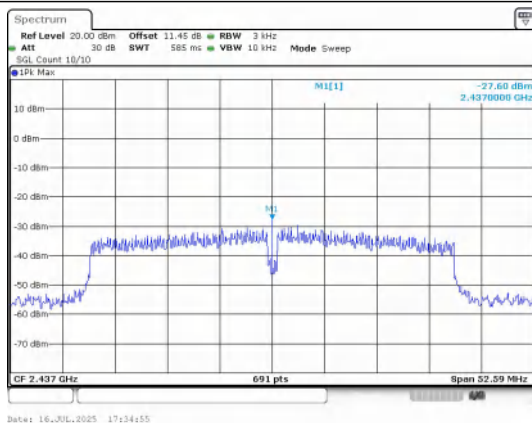
IEEE 802.11n_Channel 6_20MHz_Antenna 0



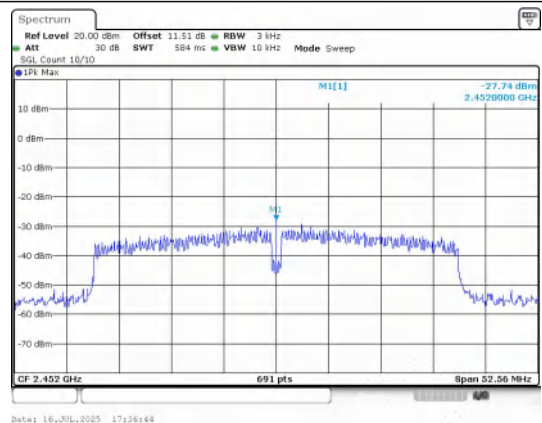
IEEE 802.11n_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 3_40MHz_Antenna 0



IEEE 802.11n_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 3_40MHz_Antenna 0

IEEE 802.11n_Channel 6_40MHz_Antenna 0

IEEE 802.11n_Channel 9_40MHz_Antenna 0

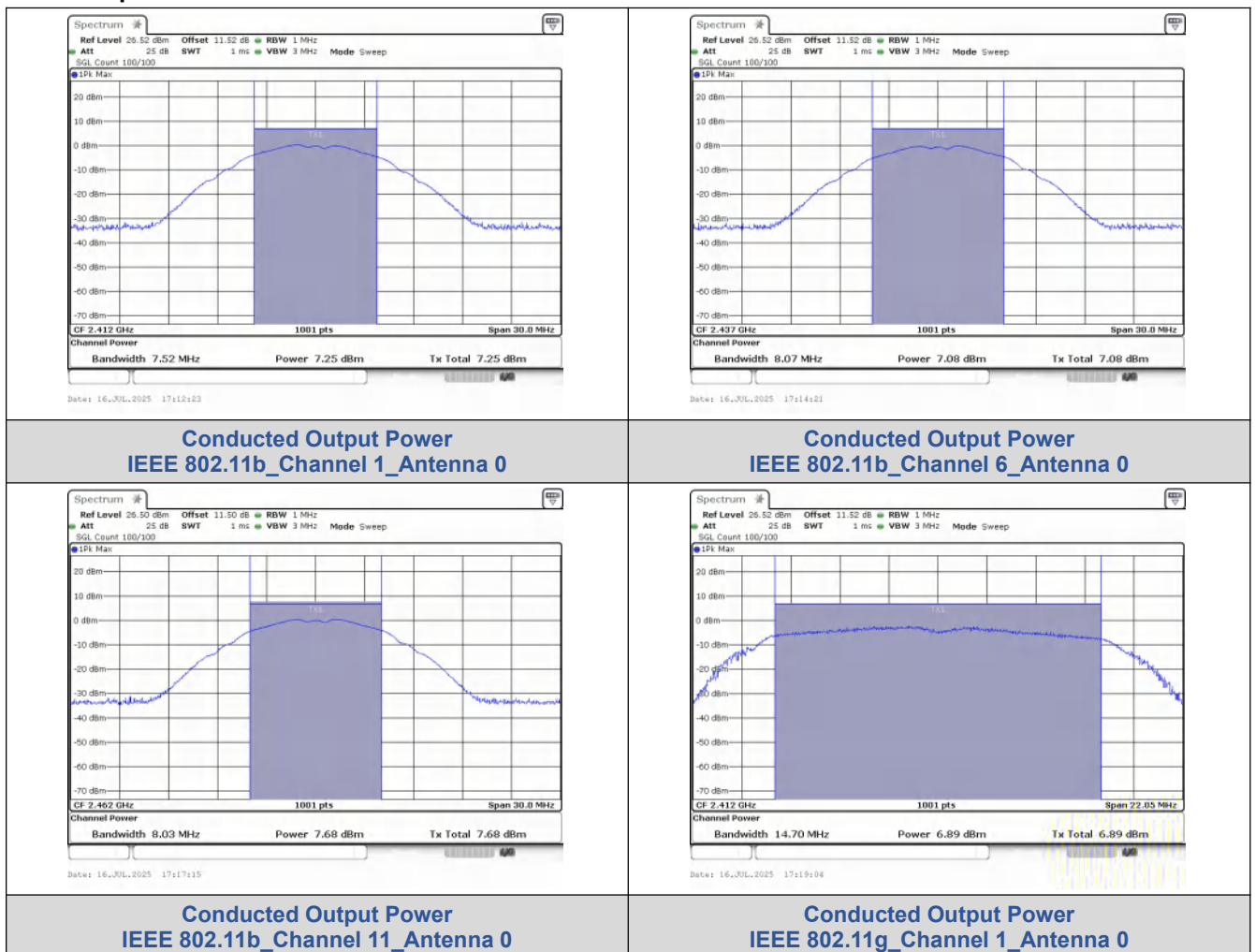
8.3. Conducted Output Power

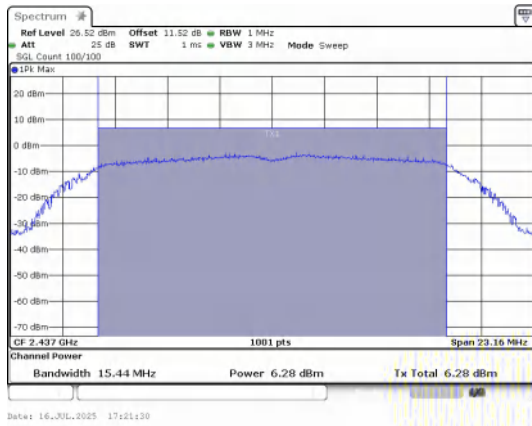
Test Result

Conducted Output Power

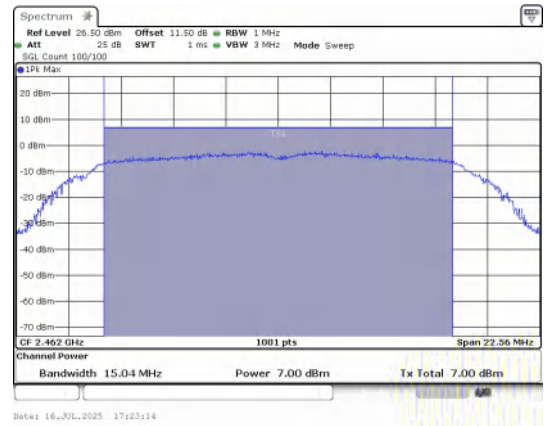
Mode	Channel	Ant. 0 (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	7.25	≤30	PASS
	6	7.08	≤30	PASS
	11	7.68	≤30	PASS
IEEE 802.11g	1	6.89	≤30	PASS
	6	6.28	≤30	PASS
	11	7.00	≤30	PASS
IEEE 802.11n_20	1	6.95	≤30	PASS
	6	5.85	≤30	PASS
	11	6.55	≤30	PASS
IEEE 802.11n_40	3	6.55	≤30	PASS
	6	6.68	≤30	PASS
	9	6.91	≤30	PASS

Test Graphs

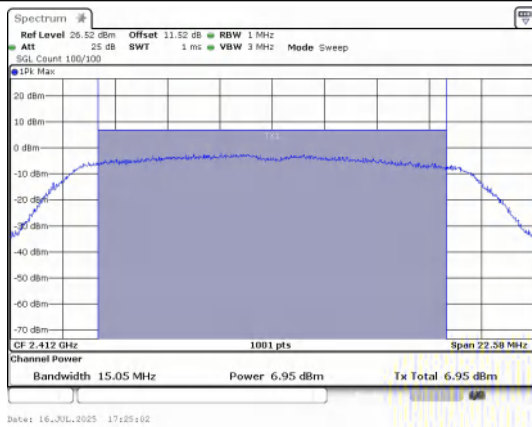




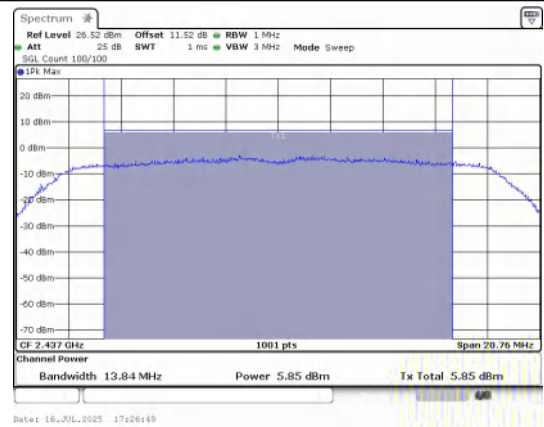
**Conducted Output Power
IEEE 802.11g_Channel 6_Antenna 0**



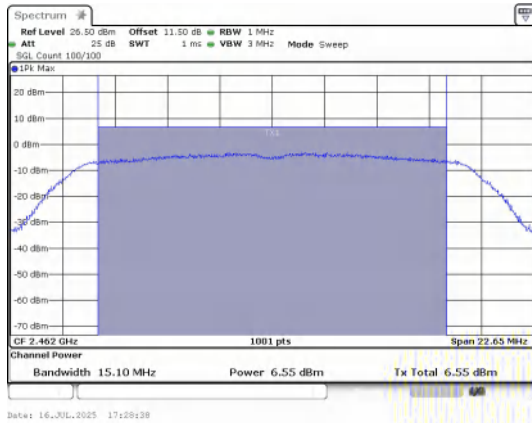
**Conducted Output Power
IEEE 802.11g_Channel 11_Antenna 0**



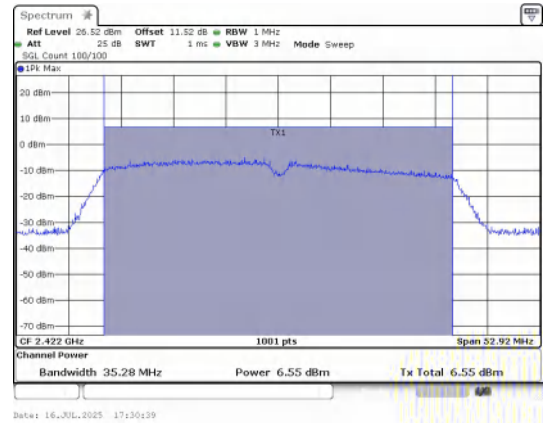
**Conducted Output Power
IEEE 802.11n_20_Channel 1_Antenna 0**



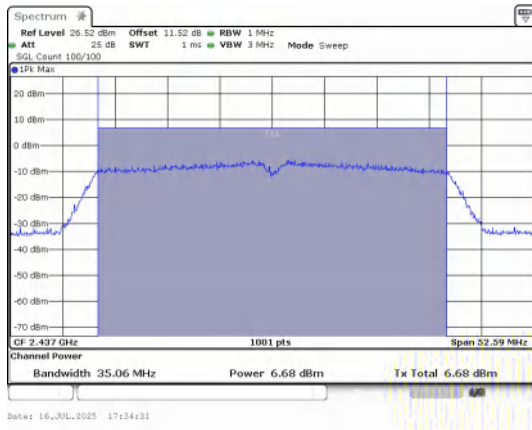
**Conducted Output Power
IEEE 802.11n_20_Channel 6_Antenna 0**



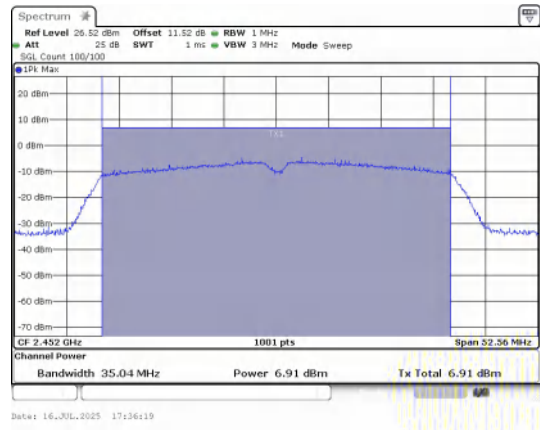
**Conducted Output Power
IEEE 802.11n_20_Channel 11_Antenna 0**



**Conducted Output Power
IEEE 802.11n_40_Channel 3_Antenna 0**



Conducted Output Power
IEEE 802.11n_40_Channel 6_Antenna 0



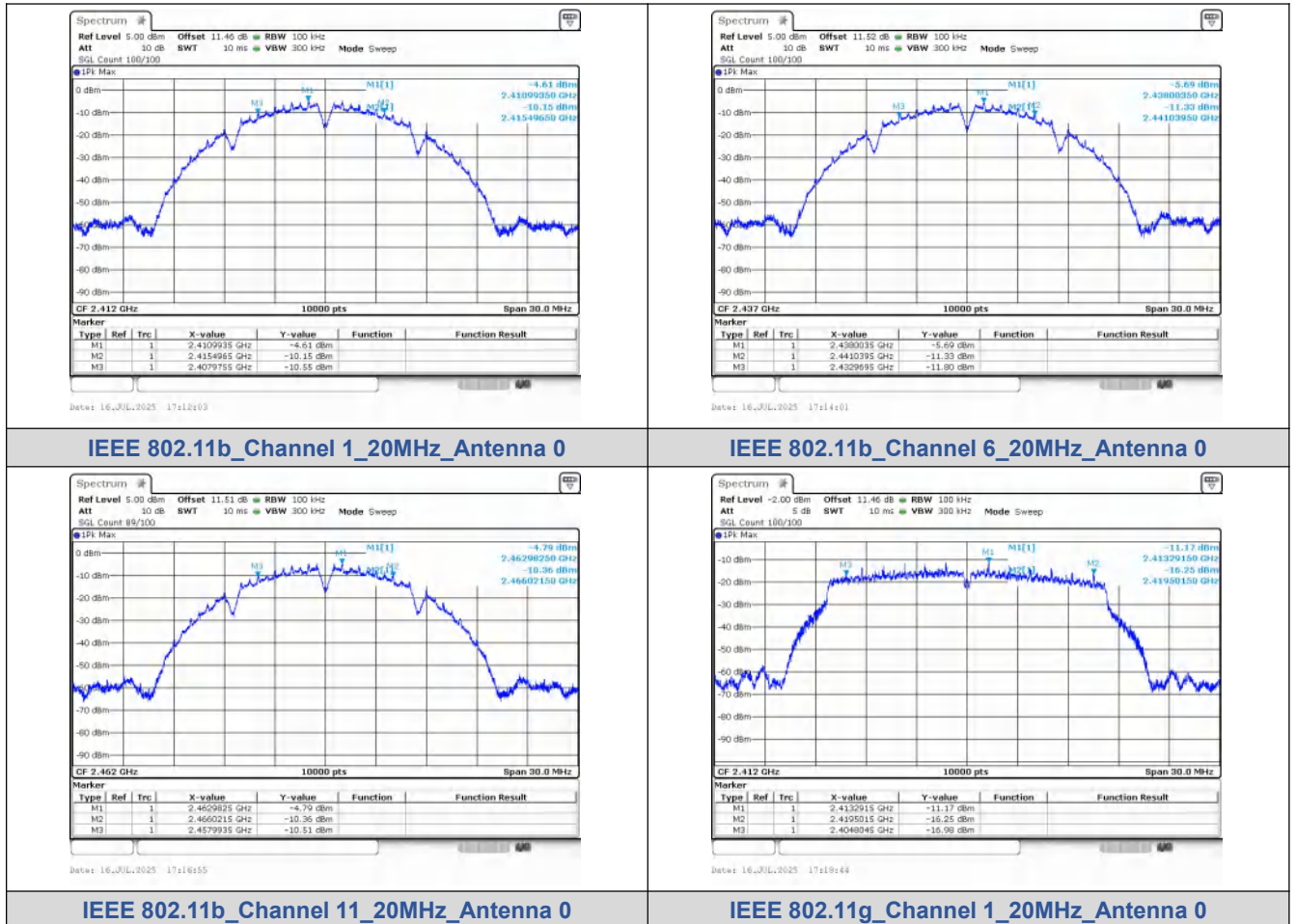
Conducted Output Power
IEEE 802.11n_40_Channel 9_Antenna 0

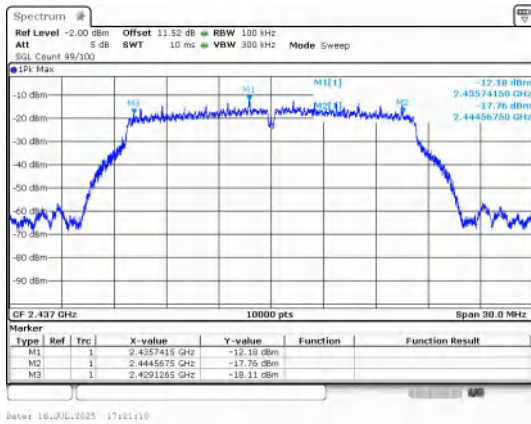
8.4. 6dB Bandwidth

Test Result

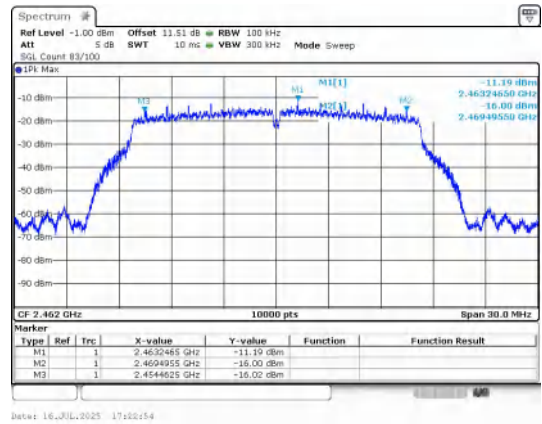
Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	0	2412	7.520	≥0.5	PASS
	6		2437	8.070		PASS
	11		2462	8.030		PASS
IEEE 802.11g	1		2412	14.70		PASS
	6		2437	15.44		PASS
	11		2462	15.04		PASS
IEEE 802.11n_20	1		2412	15.05		PASS
	6		2437	13.84		PASS
	11		2462	15.10		PASS
IEEE 802.11n_40	3		2422	35.28		PASS
	6		2437	35.06		PASS
	9		2452	35.04		PASS

Test Graphs

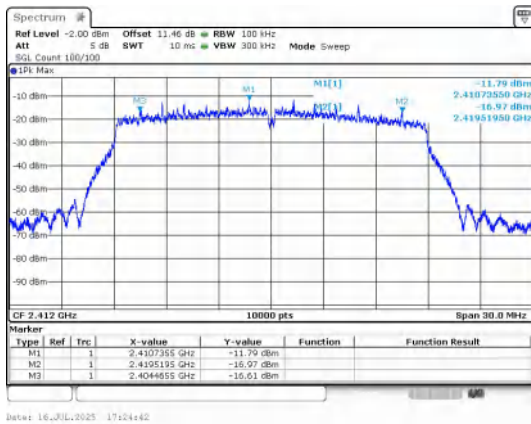




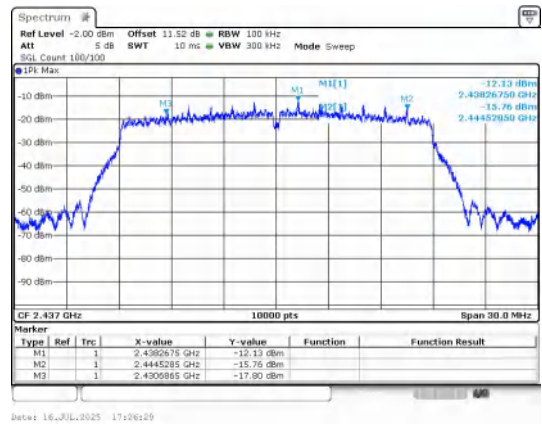
IEEE 802.11g_Channel 6_20MHz_Antenna 0



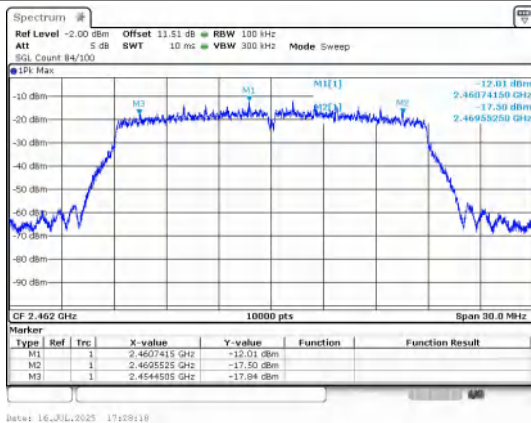
IEEE 802.11g_Channel 11_20MHz_Antenna 0



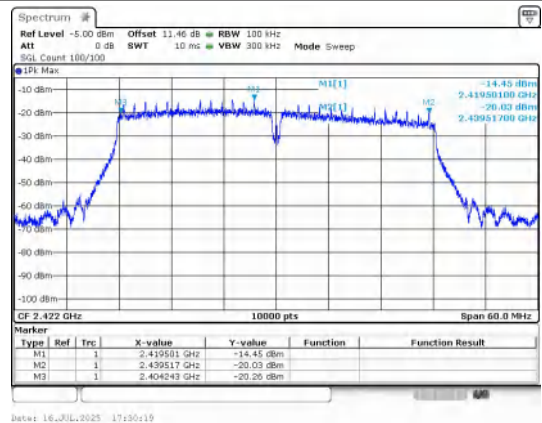
IEEE 802.11n_Channel 1_20MHz_Antenna 0



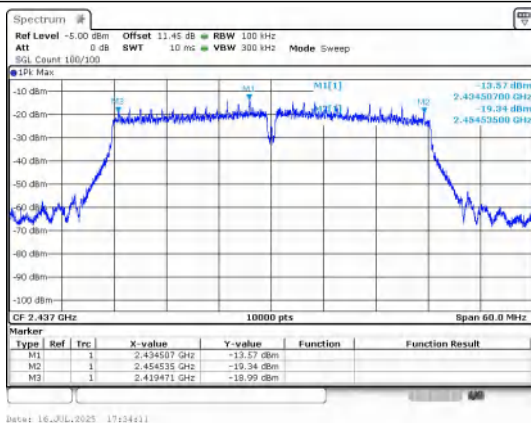
IEEE 802.11n_Channel 6_20MHz_Antenna 0



IEEE 802.11n_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 3_40MHz_Antenna 0



IEEE 802.11n_Channel 6_40MHz_Antenna 0

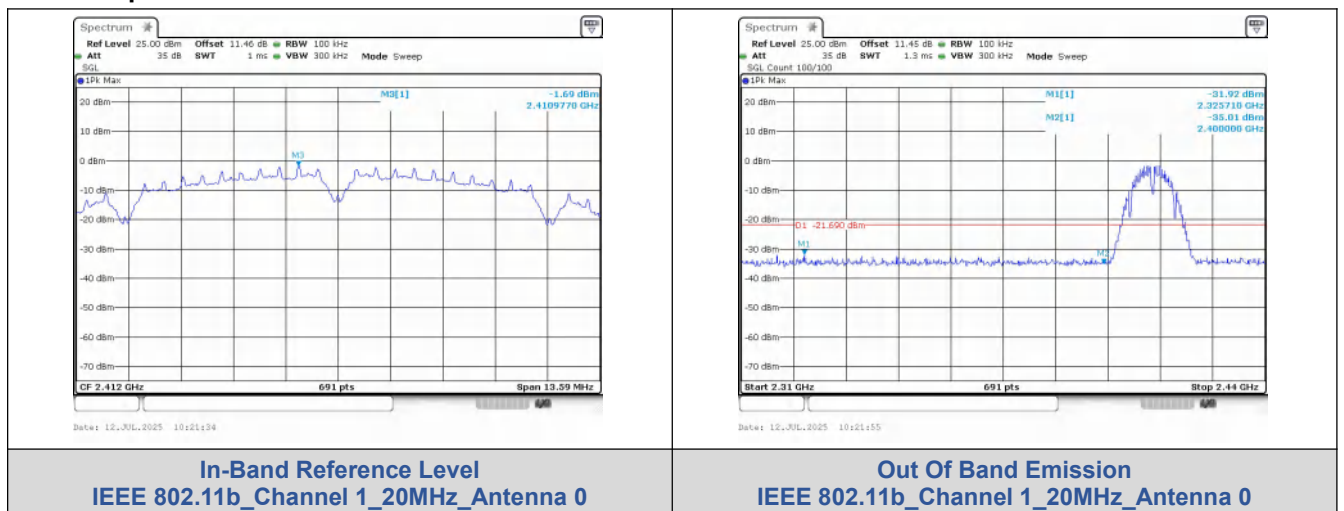
IEEE 802.11n_Channel 9_40MHz_Antenna 0

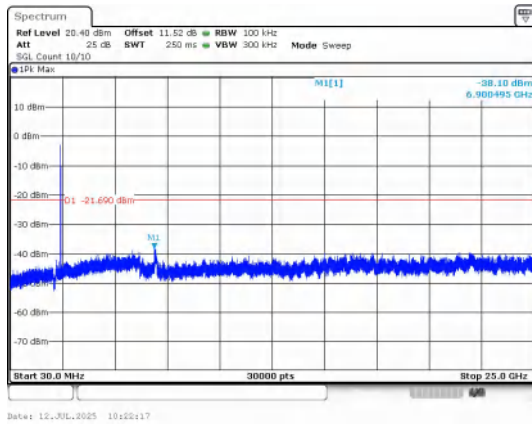
8.5. Conducted Out Of Band Emission

Test Result

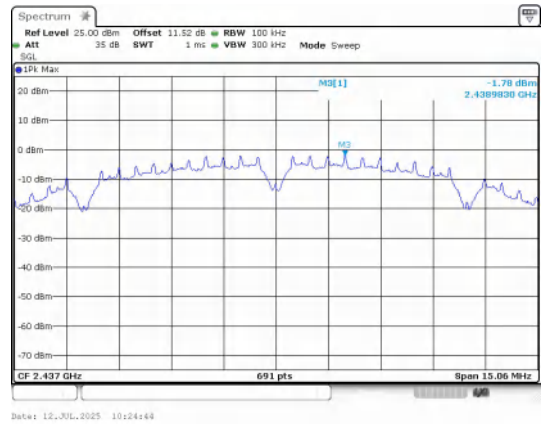
Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	
IEEE 802.11b	1	0	2325.71	-31.916	-21.69	-10.226	PASS	
			2400.00	-35.010	-21.69	-13.320	PASS	
			6900.50	-38.103	-21.69	-16.413	PASS	
	6		6937.12	-37.741	-21.78	-15.961	PASS	
			11	2483.50	-34.830	-21.51	-13.320	PASS
				6966.25	-38.638	-21.51	-17.128	PASS
IEEE 802.11g	1			2343.77	-32.257	-26.38	-5.877	PASS
			2400.00	-34.170	-26.38	-7.790	PASS	
			6960.40	-38.296	-26.38	-11.916	PASS	
	6		22054.0	-38.031	-26.31	-11.721	PASS	
			11	2483.50	-32.650	-25.97	-6.680	PASS
				6893.84	-38.612	-25.97	-12.642	PASS
IEEE 802.11n_20	1			2369.73	-32.242	-27.0	-5.242	PASS
			2400.00	-33.710	-27.0	-6.710	PASS	
			22051.5	-39.399	-27.0	-12.399	PASS	
	6		22088.1	-38.603	-26.66	-11.943	PASS	
			11	2483.50	-33.840	-27.18	-6.660	PASS
				6929.63	-38.841	-27.18	-11.661	PASS
IEEE 802.11n_40	3			2314.80	-32.649	-28.8	-3.849	PASS
			2400.00	-34.490	-28.8	-5.690	PASS	
			16821.1	-38.465	-28.8	-9.665	PASS	
	6		6934.62	-38.197	-28.81	-9.387	PASS	
			9	2483.50	-33.920	-28.31	-5.610	PASS
				6909.65	-38.715	-28.31	-10.405	PASS

Test Graphs

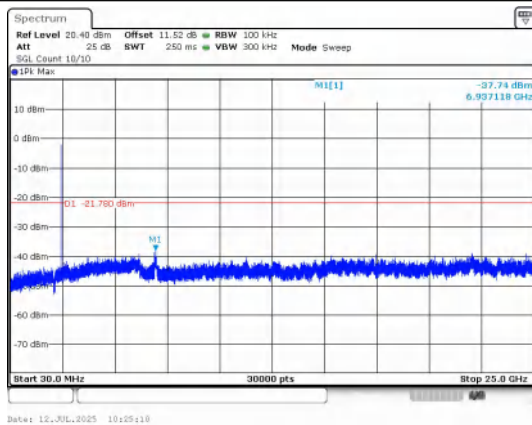




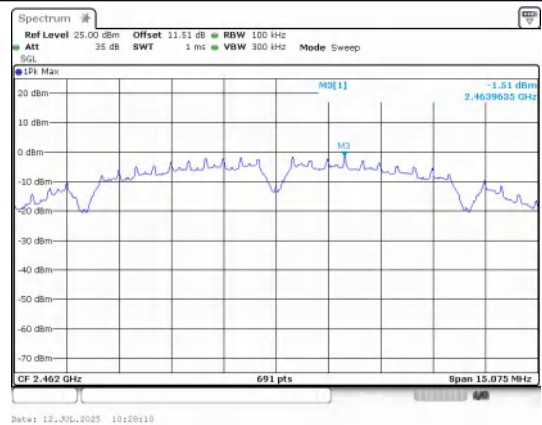
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 1_20MHz_Antenna 0



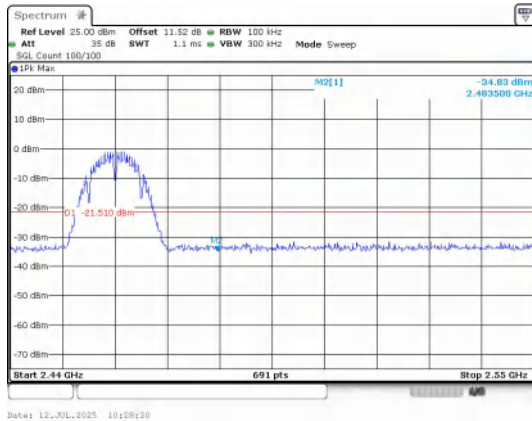
In-Band Reference Level
IEEE 802.11b_Channel 6_20MHz_Antenna 0



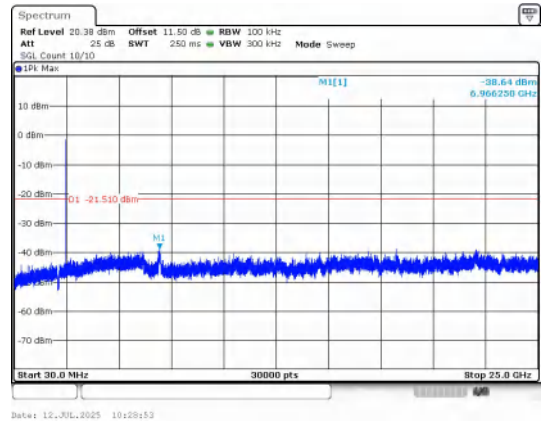
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 6_20MHz_Antenna 0



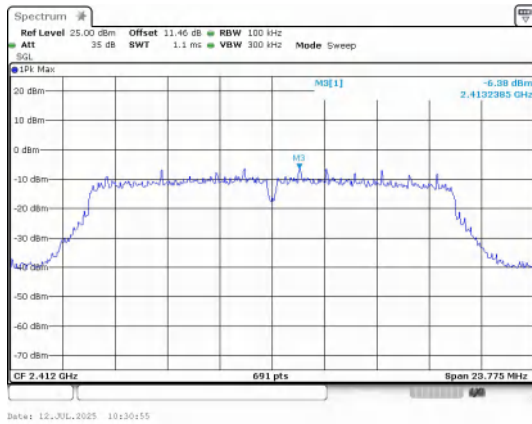
In-Band Reference Level
IEEE 802.11b_Channel 11_20MHz_Antenna 0



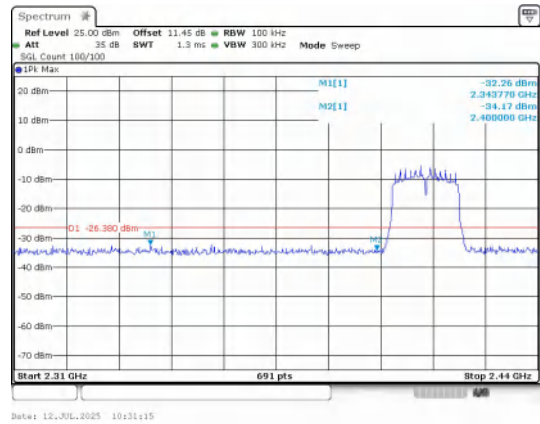
Out Of Band Emission
IEEE 802.11b_Channel 11_20MHz_Antenna 0



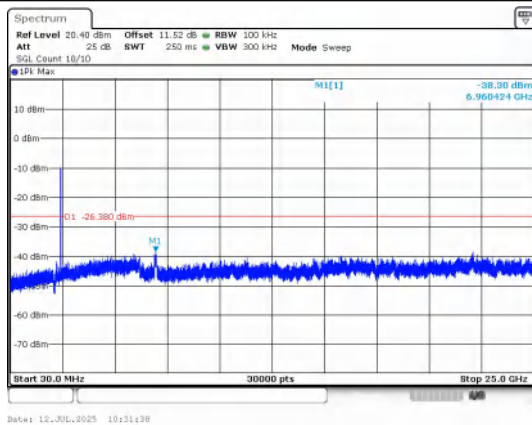
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 11_20MHz_Antenna 0



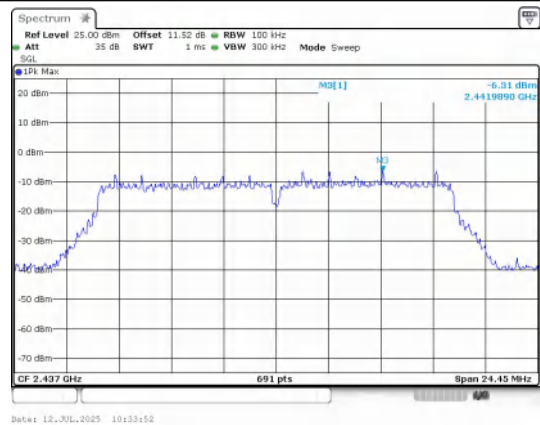
In-Band Reference Level
IEEE 802.11g_Channel 1_20MHz_Antenna 0



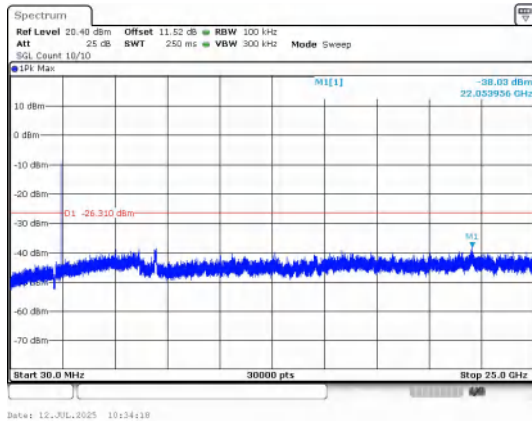
Out Of Band Emission
IEEE 802.11g_Channel 1_20MHz_Antenna 0



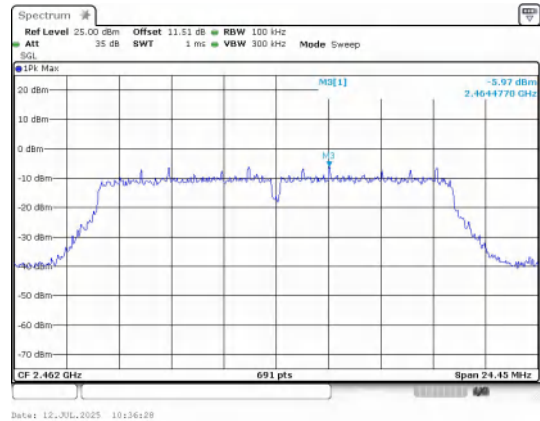
30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 1_20MHz_Antenna 0



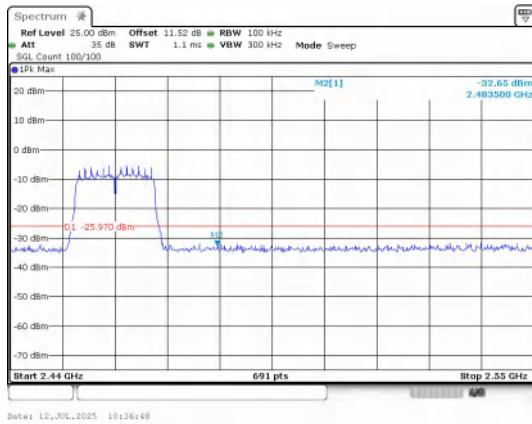
In-Band Reference Level
IEEE 802.11g_Channel 6_20MHz_Antenna 0



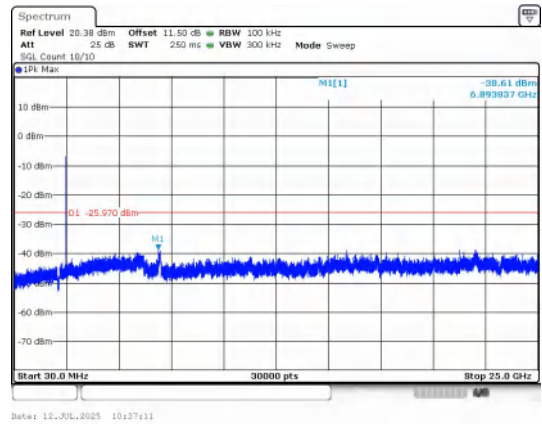
30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 6_20MHz_Antenna 0



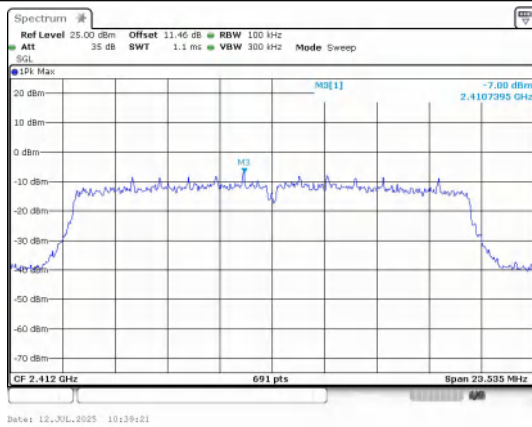
In-Band Reference Level
IEEE 802.11g_Channel 11_20MHz_Antenna 0



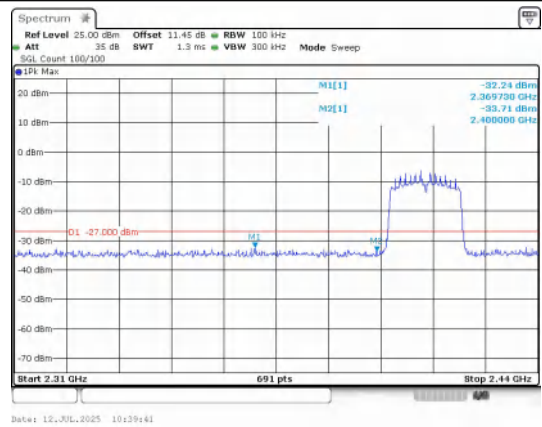
Out Of Band Emission
IEEE 802.11g_Channel 11_20MHz_Antenna 0



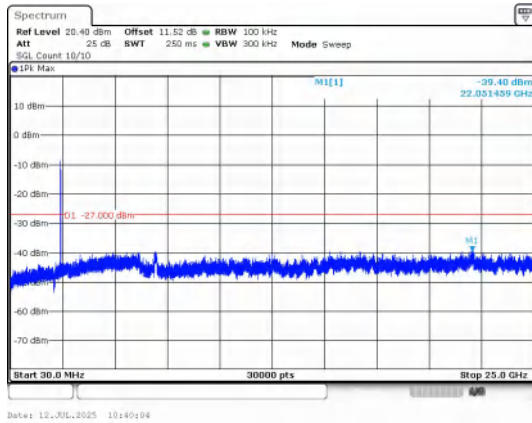
30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 11_20MHz_Antenna 0



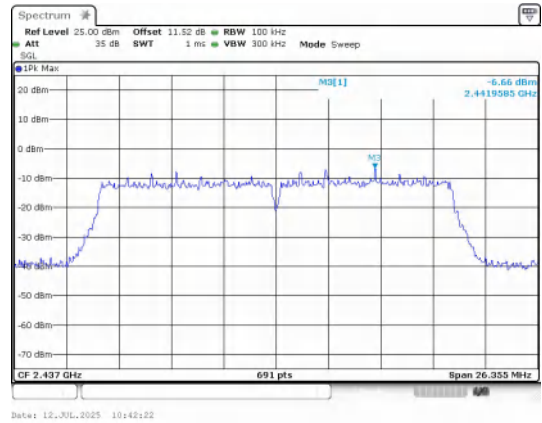
In-Band Reference Level
IEEE 802.11n_Channel 1_20MHz_Antenna 0



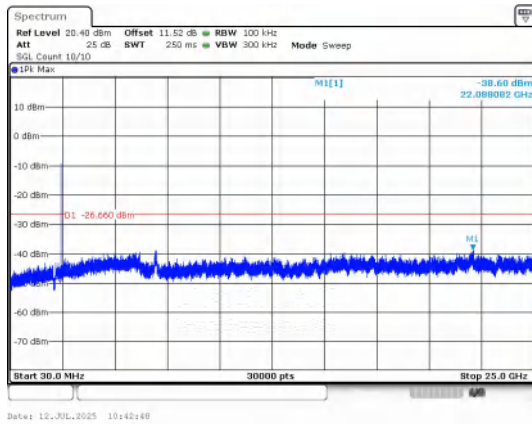
Out Of Band Emission
IEEE 802.11n_Channel 1_20MHz_Antenna 0



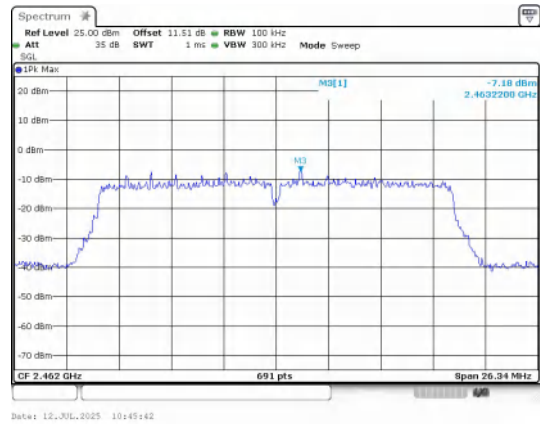
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 1_20MHz_Antenna 0



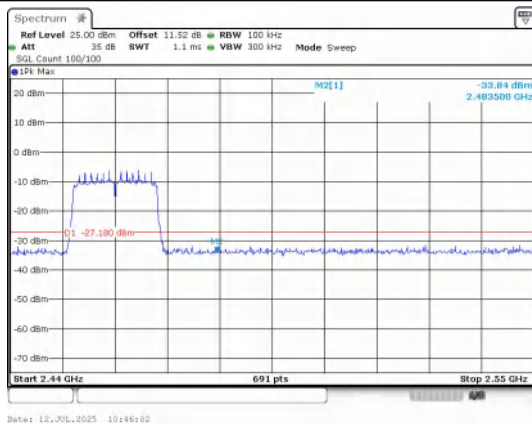
In-Band Reference Level
IEEE 802.11n_Channel 6_20MHz_Antenna 0



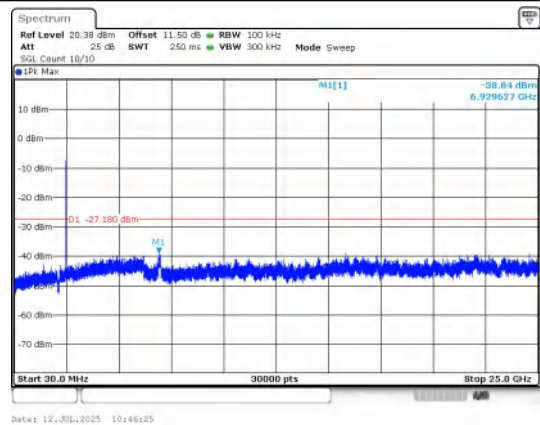
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 6_20MHz_Antenna 0



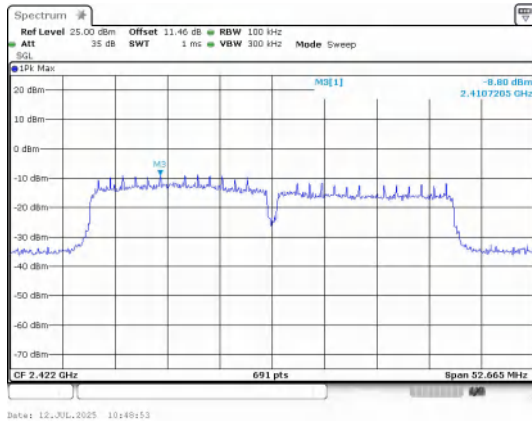
In-Band Reference Level
IEEE 802.11n_Channel 11_20MHz_Antenna 0



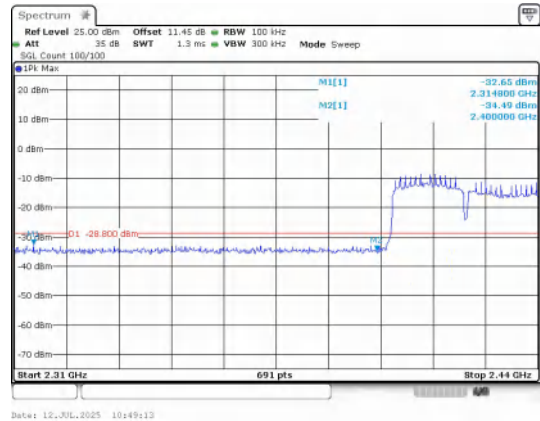
Out Of Band Emission
IEEE 802.11n_Channel 11_20MHz_Antenna 0



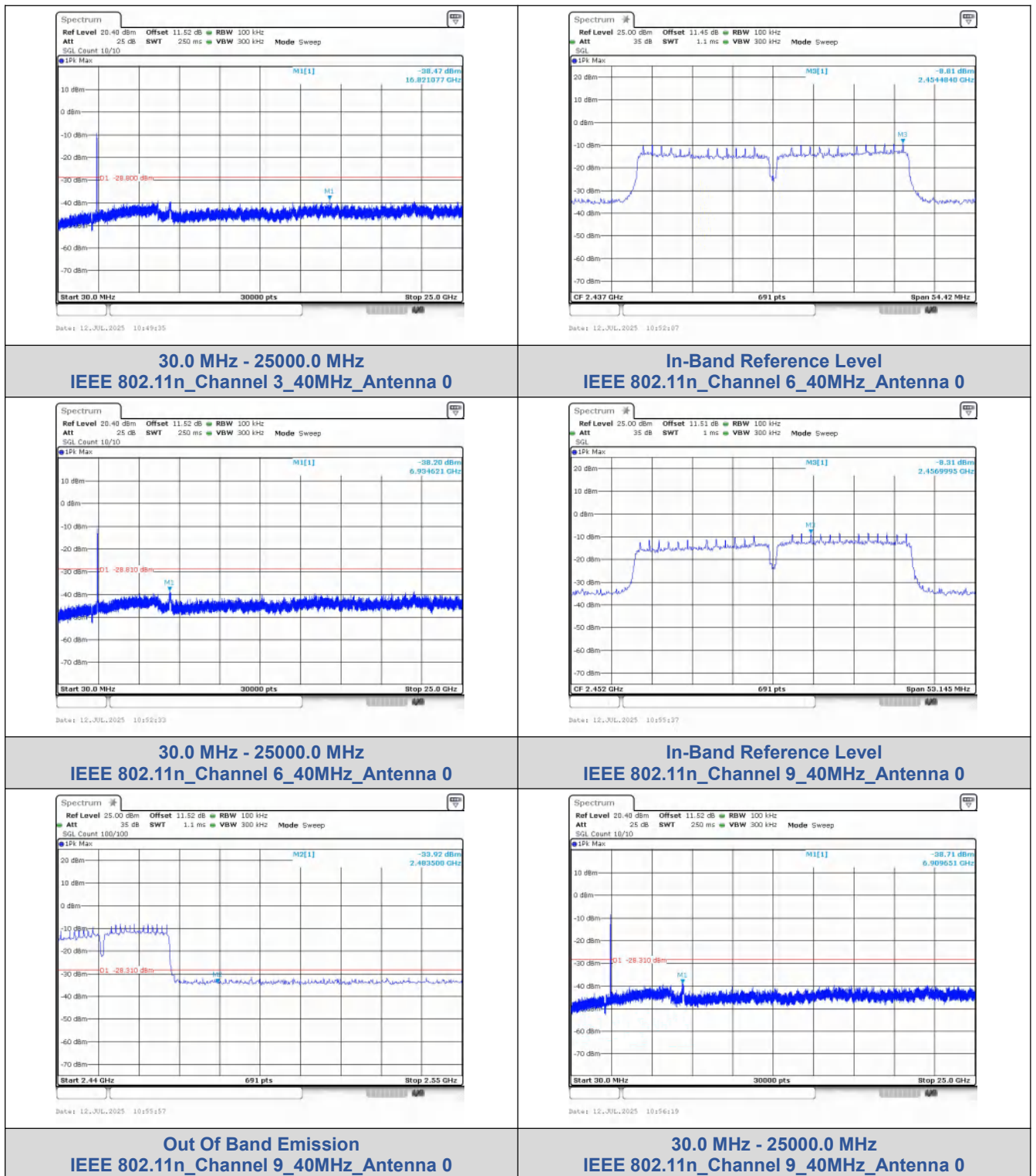
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 11_20MHz_Antenna 0



In-Band Reference Level
IEEE 802.11n_Channel 3_40MHz_Antenna 0



Out Of Band Emission
IEEE 802.11n_Channel 3_40MHz_Antenna 0



-----End of the report-----