

FCC CERTIFICATION TEST REPORT

Applicant	:	Hisense Commercial Display Co.,Ltd.
Address	:	No. 218, Qianwangang Road, Huangdao District, Qingdao, Shandong, P.R. China
Manufacturer	:	Hisense Commercial Display Co.,Ltd.
Address	:	No. 218, Qianwangang Road, Huangdao District, Qingdao, Shandong, P.R. China
Equipment under Test	:	Wireless cast
Model No.	:	HBT55E
Additional Model No.	:	HBT65E, HBT55IE, HBT65IE
Trade Mark	:	
FCC ID	:	2A9IW-HBT55E
Report No.	:	LS-R26061801-2F01
Issue Date	:	Jul. 15, 2026



LabSure Testing Services (Suzhou) Co., Ltd.

Table of Contents

	Test report declares.....	4
1.	Summary of Test Results.....	6
2.	General Test Information	7
2.1.	Description of EUT	7
2.2.	Accessories of EUT.....	8
2.3.	Assistant equipment used for test.....	8
2.4.	Block diagram of EUT configuration for test	8
2.5.	Deviations of test standard.....	9
2.6.	Test environment conditions	9
2.7.	Test laboratory	10
2.8.	Measurement uncertainty.....	10
3.	Equipment Used During Test.....	11
4.	Antenna Port Test Results	13
4.1.	On Time And Duty Cycle.....	13
4.1.1.	Block diagram of test setup.....	13
4.1.2.	Limits	13
4.1.3.	Test Procedure	13
4.1.4.	Test Results	13
4.2.	6dB Bandwidth and 99% Bandwidth.....	17
4.2.1.	Block diagram of test setup.....	17
4.2.2.	Limits	17
4.2.3.	Test Procedure	17
4.2.4.	Test Results	18
4.2.5.	Original Test Data	19
4.3.	Maximun Conducted Output Power.....	37
4.3.1.	Block diagram of test setup.....	37
4.3.2.	Limits	37
4.3.3.	Test Procedure	37
4.3.4.	Test Results	38
4.3.5.	Original Test Data	39
4.4.	Power Spectral Density.....	48
4.4.1.	Block diagram of test setup.....	48
4.4.2.	Limits	48
4.4.3.	Test Procedure	48
4.4.4.	Test Results	48
4.4.5.	Original Test Data	50

4.5.	Conducted Band-edge And Spurious Emissions.....	59
4.5.1.	Block diagram of test setup.....	59
4.5.2.	Limits	59
4.5.3.	Test Procedure.....	59
4.5.4.	Test Results	60
5.	Radiated Spurious Emissions	86
5.1.	Block diagram of test setup.....	86
5.2.	Limit.....	87
5.3.	Test procedure	89
5.4.	Test result.....	90
6.	Radiated Band Edge Compliance.....	170
6.1.	Block diagram of test setup.....	170
6.2.	Limit.....	170
6.3.	Test procedure	170
6.4.	Test result.....	170
7.	Power Line Conducted Emission	196
7.1.	Block diagram of test setup.....	196
7.2.	Power line conducted emission limits	196
7.3.	Test procedure	196
7.4.	Test result.....	197
8.	Antenna Requirements	200
8.1.	Limit.....	200
8.2.	Result	200
9.	Test Setup Photograph	201
10.	Photos of the EUT	202

Test Report Declare

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Trade Mark	:	

Test Standard Used: 47 CFR FCC Part 15 Subpart C (Part15.247)

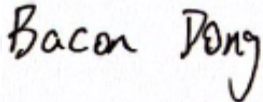
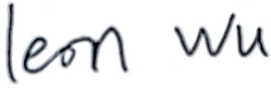
Test procedure used: ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024, KDB 558074 D01 15.247 Meas Guidance v05r02

We Declare:

The equipment described above is tested by LabSure Testing Services (Suzhou) Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and LabSure Testing Services (Suzhou) Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After test and evaluation, our opinion is that the equipment provided for test compliance with the requirement of the above standards.

Report No:	LS-R26061801-2F01		
Sample No:	Y26061801-03		
Date of Receipt:	Jun. 23, 2026	Date of Test:	Jun. 23, 2026~ Jul. 14, 2026

Prepared By: 	Reviewed By: 	Authorized By: 
Bacon Dong/Engineer	Leon Wu/Director	Chris Zhong/EMC Manager

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of LabSure Testing Services (Suzhou) Co., Ltd. The results in this report apply to the test sample(s) mentioned above at the time of the testing period only and are not to be used to indicate applicability to other similar products. This report does not imply that the product(s) has met the criteria for certification.

The results reported herein have been performed in accordance with the laboratory's terms of accreditation.

Revision History

Rev.	Revisions	Issue Date	Revised By
V0	Initial issue	Jul. 15, 2026	

1. Summary of Test Results

The EUT have been tested according to the applicable standards as referenced below.		
Description of Test Item	Standard	Verdict
6dB Bandwidth and 99% Bandwidth	FCC 15.247 (a) (2)	Pass
Maximum Conducted Output Power	FCC 15.247 (b) (3)	Pass
Power Spectral Density	FCC 15.247 (e)	Pass
Band-edge and Spurious Emissions (Conducted)	FCC 15.247 (d)	Pass
Radiated Spurious Emissions	FCC 15.247 (d) FCC 15.209 FCC 15.205	Pass
Radiated Band Edge Compliance	FCC 15.247 (d) FCC 15.209 FCC 15.205	Pass
Power Line Conducted Emission	FCC 15.207	Pass
Antenna Requirement	FCC 15.203	Pass
Note: 1) The measurement result for the sample received is <Pass> according to < ANSI C63.10 -2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024 › FCC CFR 47 Part 2, 47 CFR FCC Part 15C(Part15.247), KDB 558074 D01 15.247 Meas Guidance v05r02 › when < Simple Acceptance › decision rule is applied. 2) The N/A means “Not Applicate”		

2. General Test Information

2.1. Description of EUT

EUT Name	: Wireless cast
Model Number	: HBT55E
EUT Function Description	: Please refer to user manual of this device
Power supply	: DC 5V/0.5A
Radio Technology	: IEEE 802.11b/g/n/ax
Operation Frequency	: IEEE 802.11b: 2412MHz-2462MHz IEEE 802.11g: 2412MHz-2462MHz IEEE 802.11n HT20: 2412MHz-2462MHz IEEE 802.11n HT40: 2422MHz-2452MHz IEEE 802.11ax HE20: 2412MHz-2462MHz IEEE 802.11ax HE40: 2422MHz-2452MHz
Modulation	: IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n (HT20, HT40): OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ax (HE20, HE40): OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)
Transmitter Rate	: IEEE 802.11b: 1, 2, 5.5, 11 Mbps IEEE 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps IEEE 802.11n (HT20, HT40): MCS0~MCS7 IEEE 802.11ax (HE20, HE40): MCS0~MCS11
Antenna Type	: Ceramic antenna
Antenna Gain	: Max. Peak gain: 0.46 dBi for Antenna 1 (Declare by customer and the lab isn't responsible for the value)

Note1: The lab isn't responsible for the value provide by customer (Such as RF cable loss, antenna gain etc.)

Channel information (IEEE 802.11b, IEEE 802.11g, IEEE 802.11n HT20, IEEE 802.11ax HE20)							
CH	Frequency (MHz)	CH	Frequency (MHz)	CH	Frequency (MHz)	CH	Frequency (MHz)
*1	2412	4	2427	7	2442	10	2457
2	2417	5	2432	8	2447	*11	2462
3	2422	*6	2437	9	2452	/	/

Channel information (IEEE 802.11n HT40, IEEE 802.11ax HE40)					
CH	Frequency (MHz)	CH	Frequency (MHz)	CH	Frequency (MHz)
*3	2422	*6	2437	*9	2452
4	2427	7	2442	/	/
5	2432	8	2447	/	/

Note: Channels remarked * are selected to perform test

EUT only has one TX Antenna and can only operate SISO mode

Modulation Type	TX Configuration
-----------------	------------------

IEEE 802.11b	1TX
IEEE 802.11g	1TX
IEEE 802.11n HT20	1TX
IEEE 802.11n HT40	1TX
IEEE 802.11ax HE20	1TX
IEEE 802.11ax HE40	1TX

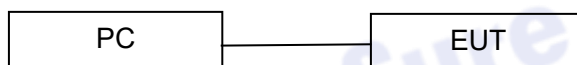
2.2. Accessories of EUT

Description of Accessories	Manufacturer	Model number	Description	Remark
N/A	N/A	N/A	N/A	N/A

2.3. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	EMC Compliance	SN
Notebook	Lenovo	Xiaoxin 14c RH10	CE/FCC	N/A

2.4. Block diagram of EUT configuration for test



Run the special test software ADB, Version: 1.0.40.

The pathloss of external cable: 1dB (According to the manufacturer's claims)

Tested mode, channel, setting Tx power and rand data rate information				
Mode	Setting Tx Power	Data rate (Mbps) (See Note)	Channel	Frequency (MHz)
IEEE 802.11b	13	1	LCH: CH1	2412
	14	1	MCH: CH6	2437
	14	1	HCH: CH11	2462
IEEE 802.11g	13	6	LCH: CH1	2412
	14	6	MCH: CH6	2437
	14	6	HCH: CH11	2462
IEEE 802.11n HT20	14	MCS 0	LCH: CH1	2412
	14	MCS 0	MCH: CH6	2437
	14	MCS 0	HCH: CH11	2462
IEEE 802.11n HT40	14	MCS 0	LCH: CH3	2422
	13	MCS 0	MCH: CH6	2437
	13	MCS 0	HCH: CH9	2452
IEEE 802.11ac HT20	14	MCS 0	LCH: CH1	2412
	14	MCS 0	MCH: CH6	2437
	14	MCS 0	HCH: CH11	2462
IEEE 802.11ac HT40	14	MCS 0	LCH: CH3	2422
	13	MCS 0	MCH: CH6	2437
	13	MCS 0	HCH: CH9	2452

Note: According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.

2.5. Deviations of test standard

No Deviation.

2.6. Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

Environment Parameter	Selected Values During Tests	
Relative Humidity	55 ~ 65%	
Atmospheric Pressure:	1025Pa	
Temperature	TN	23 ~ 28°C
Voltage:	VL	N/A
	VN	DC 5V
	VH	N/A

Note: VL= Lower Extreme Test Voltage

VN= Nominal Voltage

VH= Upper Extreme Test Voltage

TN= Normal Temperature

2.7. Test laboratory

Lab Information	Company Name: LabSure Testing Services (Suzhou) Co., Ltd. Address: Phase II, No.16 Runsheng Road, Suzhou Industrial Park, Suzhou, People's Republic of China.
Accreditation Certificate	A2LA (Certificate No.: 7346.01) LabSure Testing Services (Suzhou) Co., Ltd.. has been assessed and proved to be in compliance with A2LA. FCC (FCC Designation No.: CN1397) LabSure Testing Services (Suzhou) Co., Ltd.. has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules. IC (IC Designation No.: 32952; CAB No.:CN0182) LabSure Testing Services (Suzhou) Co., Ltd.. has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules.
Note 1: All tests measurement facilities use to collect the measurement data are located at Phase II, No.16 Runsheng Road, Suzhou Industrial Park, Suzhou, China. Note 2: For below 30MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. These measurements below 30MHz had been correlated to measurements performed on an OFS. Note 3: The test anechoic chamber in LabSure Testing Services (Suzhou) Co., Ltd. had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.	

2.8. Measurement uncertainty

Test Item	Uncertainty
DTS Bandwidth	$\pm 1.9 \%$
Maximum Conducted Output Power	$\pm 0.57\text{dB}$
Maximum Power Spectral Density Level	$\pm 1.5 \text{ dB}$
Band-edge Compliance	$\pm 1.9\%$
Conducted Spurious Emissions	9KHz-30MHz: $\pm 0.90\text{dB}$
	30MHz-1GHz: $\pm 1.5 \text{ dB}$
	1GHz-12.75GHz: $\pm 1.9\text{dB}$
	12.75GHz-26.5GHz: $\pm 2.1\text{dB}$
Uncertainty for Radiation Emission Test (9kHz - 1 GHz)	9kHz-30MHz: 3.4 dB
	30MHz-1000MHz: 2.4 dB
Uncertainty for Radiation Emission Test (1 GHz - 40 GHz)	1GHz - 18 GHz: 3.1 dB
	18GHz - 40 GHz: 4.3 dB
Uncertainty for Power Line Conduction Emission Test	3.0 dB (150 kHz - 30 MHz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

3. Equipment Used During Test

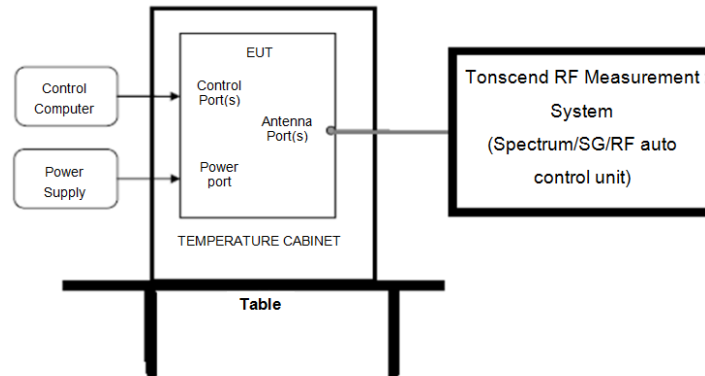
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
RF Connected Test					
MXA Signal Analyzer (10Hz-50GHz)	Keysight	N9020B	MY63470246	2026/05/27	1 Year
MXA Signal Analyzer (10Hz-26.5GHz)	Keysight	N9020B	MY56080159	2026/03/06	1 Year
MXG Vector Signal Generator (100kHz-6GHz)	Agilent	N5182A	MY50144775	2026/01/25	1 Year
EXG Analog Signal Generator (9kHz-40GHz)	Keysight	N5173B	MY59101189	2026/05/27	1 Year
Vector Signal Generator (4kHz-7.125GHz)	Rohde&Schwarz	SMCV100B	1432.7000K02-106109-gD	2026/05/27	1 Year
Wireless Connectivity Test Set	Anritsu Corp.	MT8862A	6272445466	2026/05/27	1 Year
Wideband Radio Communication Tester	Rohde&Schwarz	CMW 500	1201.0002K50-158800-Qi	2026/02/11	1 Year
RF Control Unit	Tonscend	JS0806-2	806JS2X022505261006	2026/05/27	1 Year
Temperature, humidity and pressure recorder	Huahanwei	THP40W-E	c0222020002d	2026/03/02	1 Year
Test Software	Tonscend	JS1120-3	3.6.21	N/A	N/A
Radiated Emission -3m EMI Chamber					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
3m Anechoic Chamber	CRT	3m-SAC	N/A	2024/05/18	3 Year
Loop antenna	SCHWARZBECK	FMZB1519-60D	00058	2024/11/05	3 Year
Hybrid antenna	TESEQ	CBL6141B	27421	2024/01/10	3 Year
Horn antenna	ETS-Lindgren	3117	157735	2024/01/19	3 Year
Low Noise Amplifier	Tonscend	TAP10M1G40N	806JSAP039904251006	2026/01/25	1 Year
Pre-Amplifier_HF	COM-MW	DPA8-1000-18000-1012	05231257	2026/01/25	1 Year
EMI Test Receiver	Rohde & Schwarz	ESCI7	101138	2026/01/25	1 Year
Spectrum Analyzer(9kHz-40GHz)	Rohde & Schwarz	FSV40-N	101642	2026/01/25	1 Year
Temperature, humidity and pressure recorder	HuaHanWei	THP40W-E	c0222020002F	2026/01/31	1 Year
Test software	TONSCEND	JS32-RE	5.0.0	N/A	N/A
Power Line Conducted Emissions Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
Shielding Room 1	Tai He Mao Rui	N/A	N/A	2024/01/25	3 Year
EMI Test Receiver	Rohde & Schwarz	ESCI3	101705	2026/01/25	1 Year
Two-Line V-Network	Rohde & Schwarz	ENV216	101064	2026/01/25	1 Year
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	102704	2026/01/25	1 Year

Temperature, humidity and pressure recorder	HuaHanWei	THP40W-E	c0222020002E	2026/01/25	1 Year
Test software	TONSCEND	JS32-CE	5.0.0	N/A	N/A

4. Antenna Port Test Results

4.1. On Time And Duty Cycle

4.1.1. Block diagram of test setup



4.1.2. Limits

None; for reporting purposes only.

4.1.3. Test Procedure

FCC KDB 558074 Zero-Span Spectrum Analyzer Method.

4.1.4. Test Results

TEST ENVIRONMENT

Temperature	24.7	Relative Humidity	51.9%
Atmosphere Pressure	100.9kPa	Test Voltage	DC 5V

TEST RESULT TABLE

Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (db)	1/T Minimum VBW (kHz)	Final VBW (kHz)
11B	19.00	19.00	1	100	0	0.01	0.01
11G	0.33	0.34	0.97	97	0.13	2.94	3
802.11n HT20	0.32	0.33	0.97	97	0.13	3.03	6
802.11n HT40	0.17	0.18	0.944	94.4	0.25	5.88	6
802.11ax HE20	0.27	0.28	0.964	96.4	0.16	3.70	6
802.11ax HE40	0.16	0.17	0.941	94.1	0.26	6.25	10

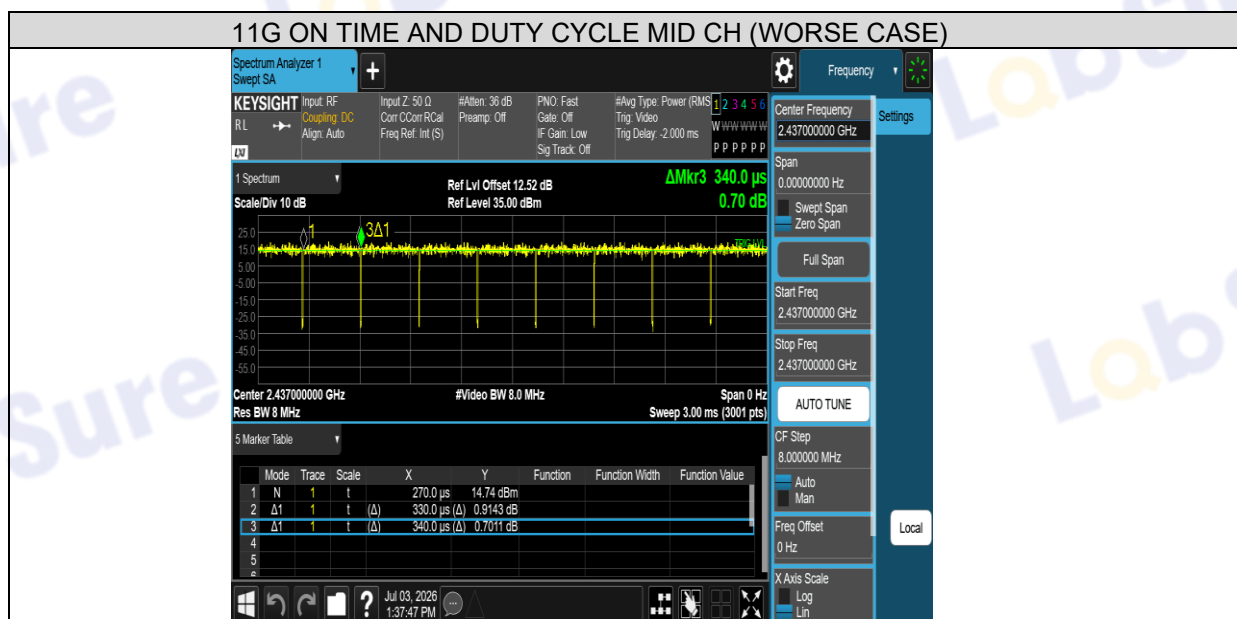
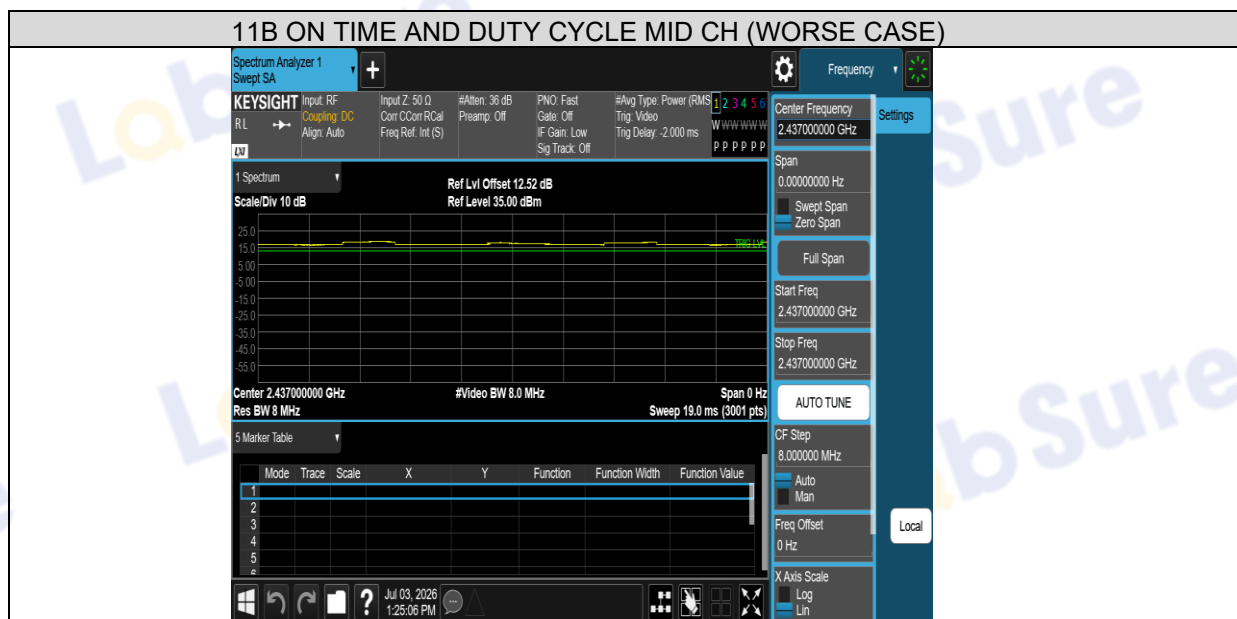
Note: 1) Duty Cycle Correction Factor=10log(1/x).

2) Where: x is Duty Cycle (Linear)

3) Where: T is On Time (transmit duration)

4) If the duty cycle is above 98%, the Final VBW is 10Hz.

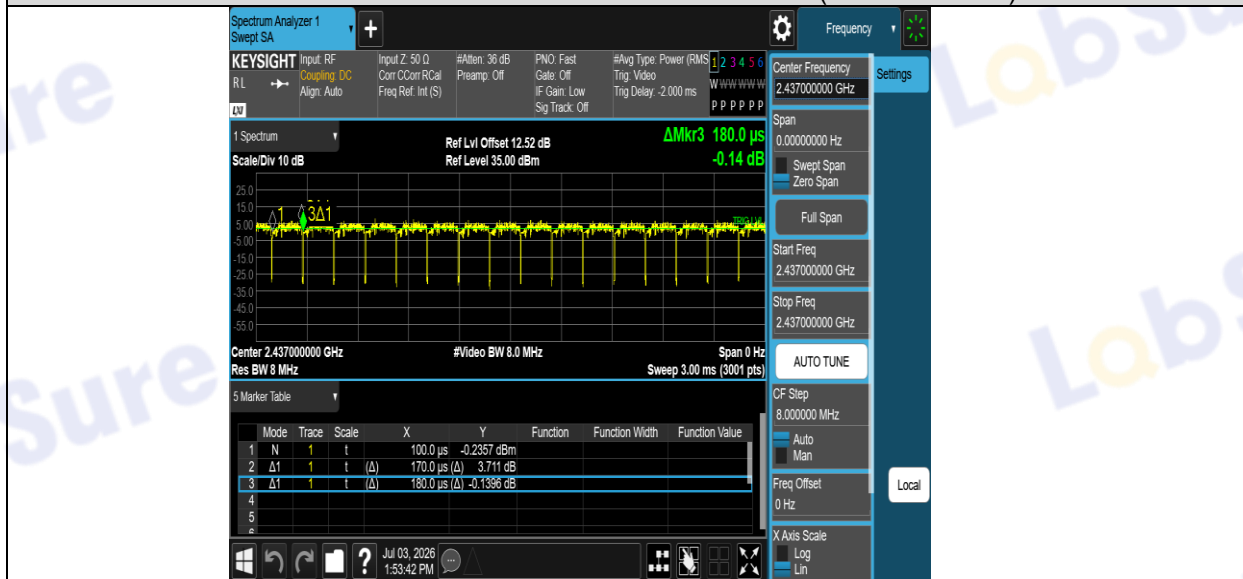
TEST GRAPHS

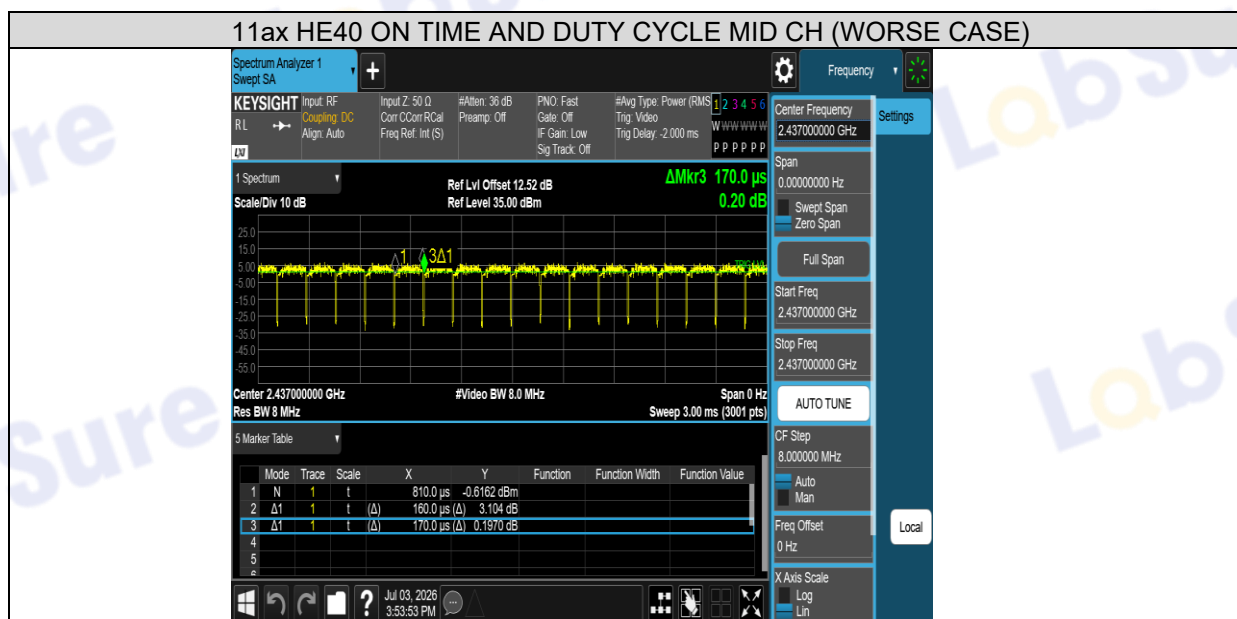
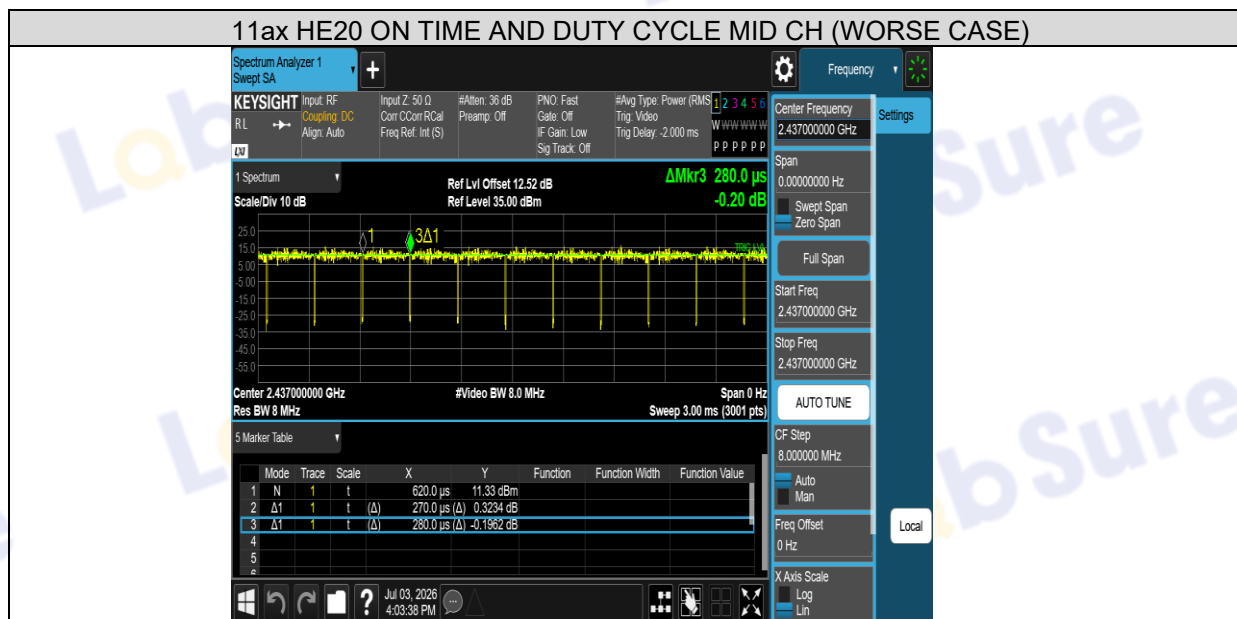


11N HT20 ON TIME AND DUTY CYCLE MID CH (WORSE CASE)



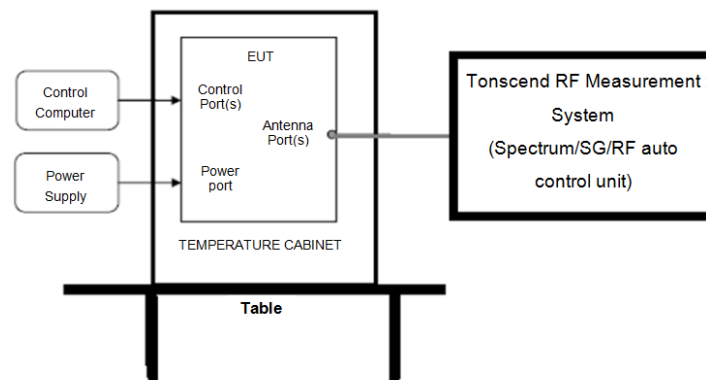
11N HT40 ON TIME AND DUTY CYCLE MID CH (WORSE CASE)





4.2. 6dB Bandwidth and 99% Bandwidth

4.2.1. Block diagram of test setup



4.2.2. Limits

FCC Part15 (15.247), Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC 15.247(a)(2)	6dB Bandwidth	$\geq 500\text{kHz}$	2400-2483.5
	99 % Occupied Bandwidth	For reporting purposes only	2400-2483.5

4.2.3. Test Procedure

(1) Connect EUT's antenna output to spectrum analyzer by RF cable.

(2) 99% Bandwidth set the spectrum analyzer as follows:

RBW: 1% to 5% of the OBW
 VBW: Three times the RBW
 Detector Mode: Peak
 Sweep time: auto
 Trace mode: Max hold

(3) 6dB Bandwidth set the spectrum analyzer as follows:

RBW: 100 kHz
 VBW: 300 kHz
 Detector Mode: Peak
 Sweep time: auto
 Trace mode: Max hold

(4) Allow the trace to stabilize, 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.

4.2.4. Test Results**TEST ENVIRONMENT**

Temperature	24.7	Relative Humidity	51.9%
Atmosphere Pressure	100.9kPa	Test Voltage	DC 5V

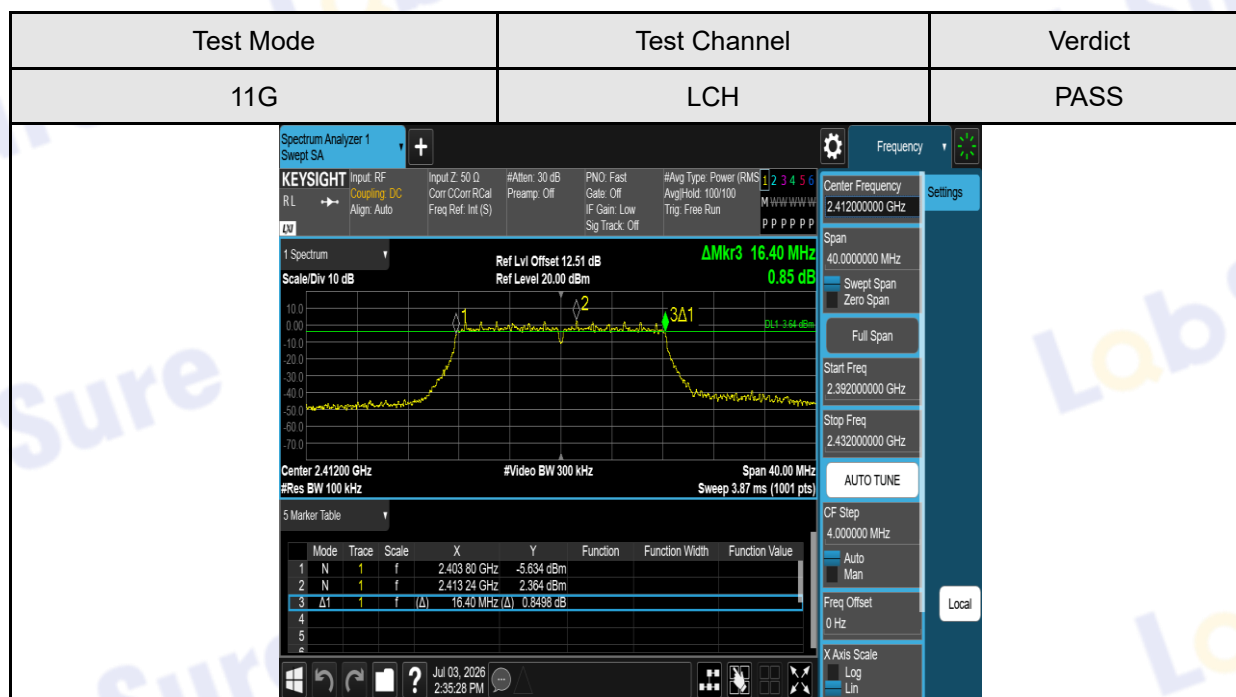
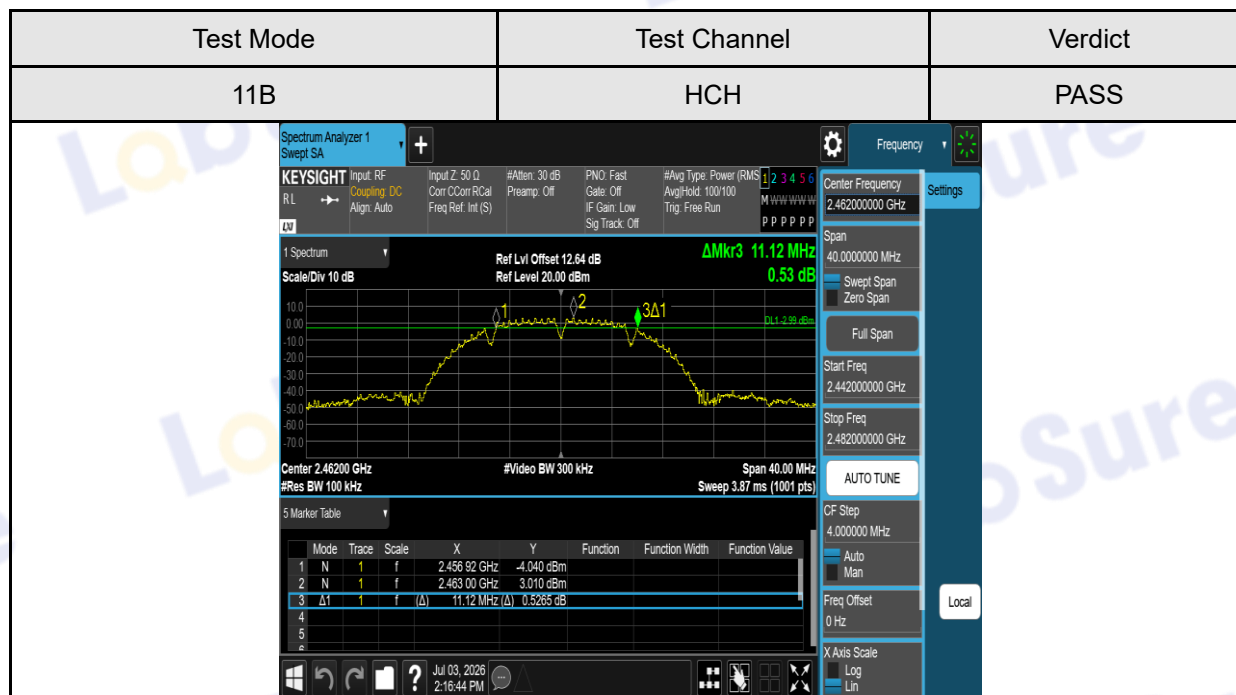
TEST RESULT TABLE

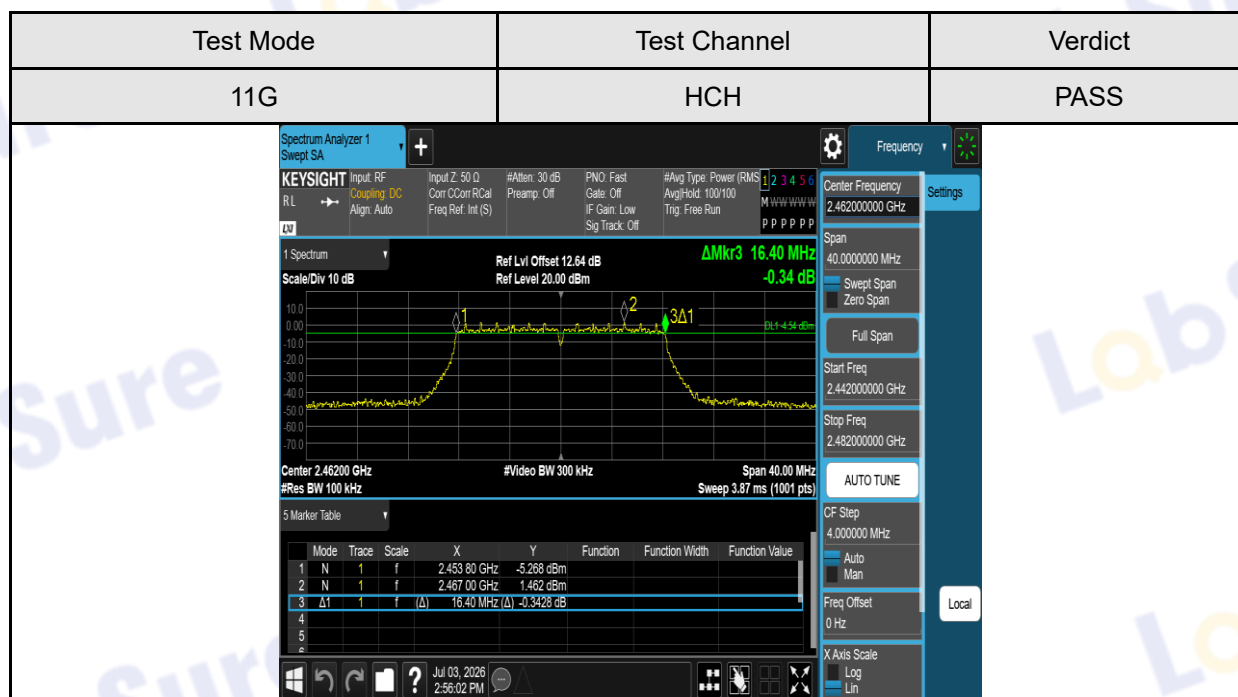
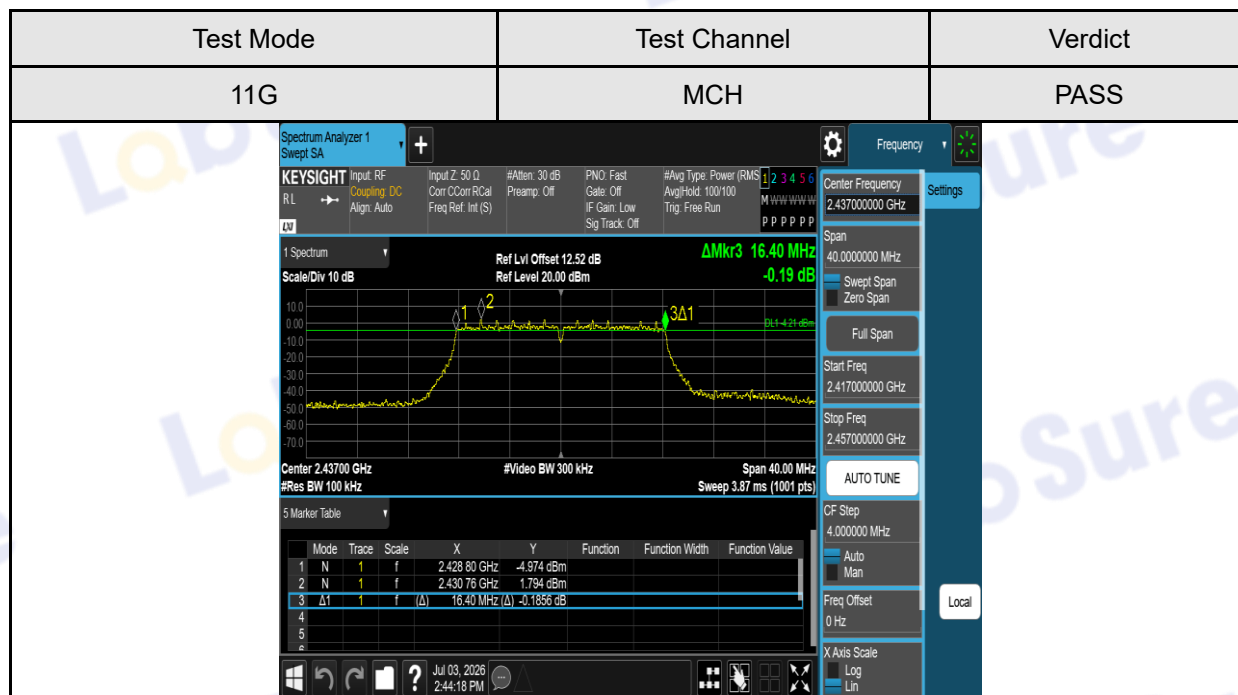
Test Mode	Test Channel	6dB bandwidth (MHz)	99% bandwidth (MHz)	Result
11B	LCH	11.160	14.942	Pass
	MCH	10.240	14.924	Pass
	HCH	11.120	14.917	Pass
11G	LCH	16.400	16.487	Pass
	MCH	16.400	16.516	Pass
	HCH	16.400	16.490	Pass
11N HT20	LCH	16.640	17.644	Pass
	MCH	16.280	17.624	Pass
	HCH	16.280	17.613	Pass
11N HT40	LCH	35.920	36.244	Pass
	MCH	35.520	36.260	Pass
	HCH	36.240	36.256	Pass
11ax HE20	LCH	18.400	18.949	Pass
	MCH	18.360	18.972	Pass
	HCH	18.160	18.935	Pass
11ax HE40	LCH	37.920	37.861	Pass
	MCH	37.760	37.886	Pass
	HCH	37.760	37.858	Pass

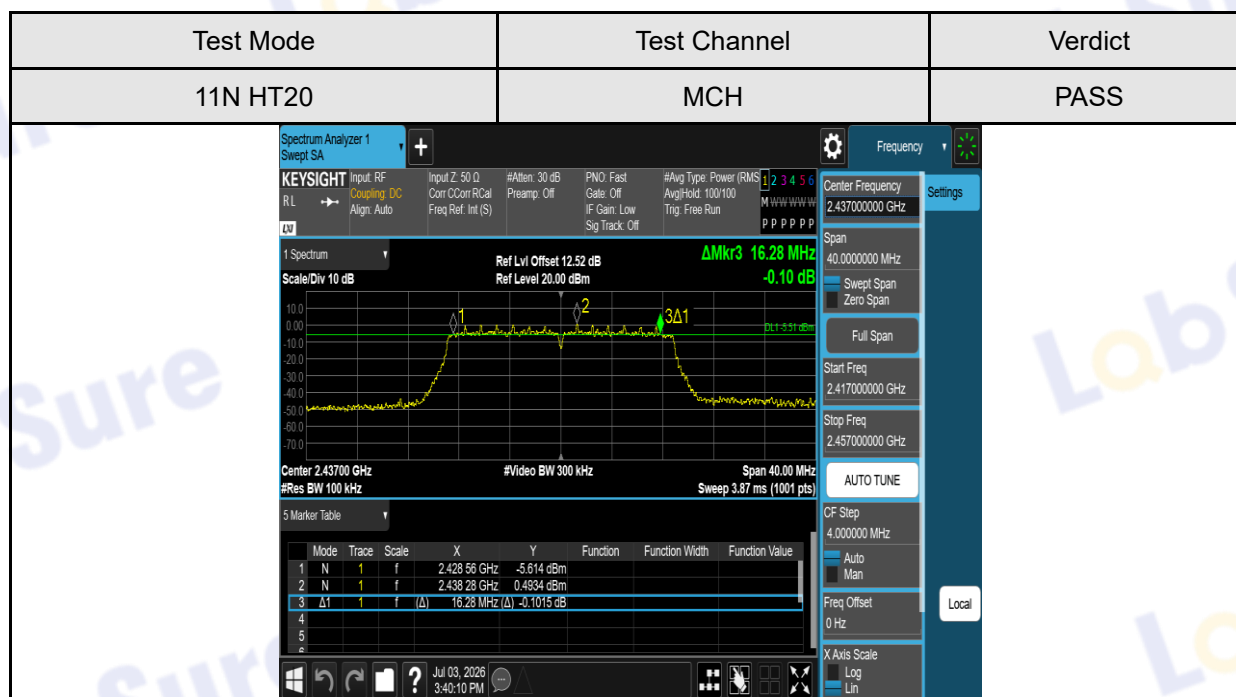
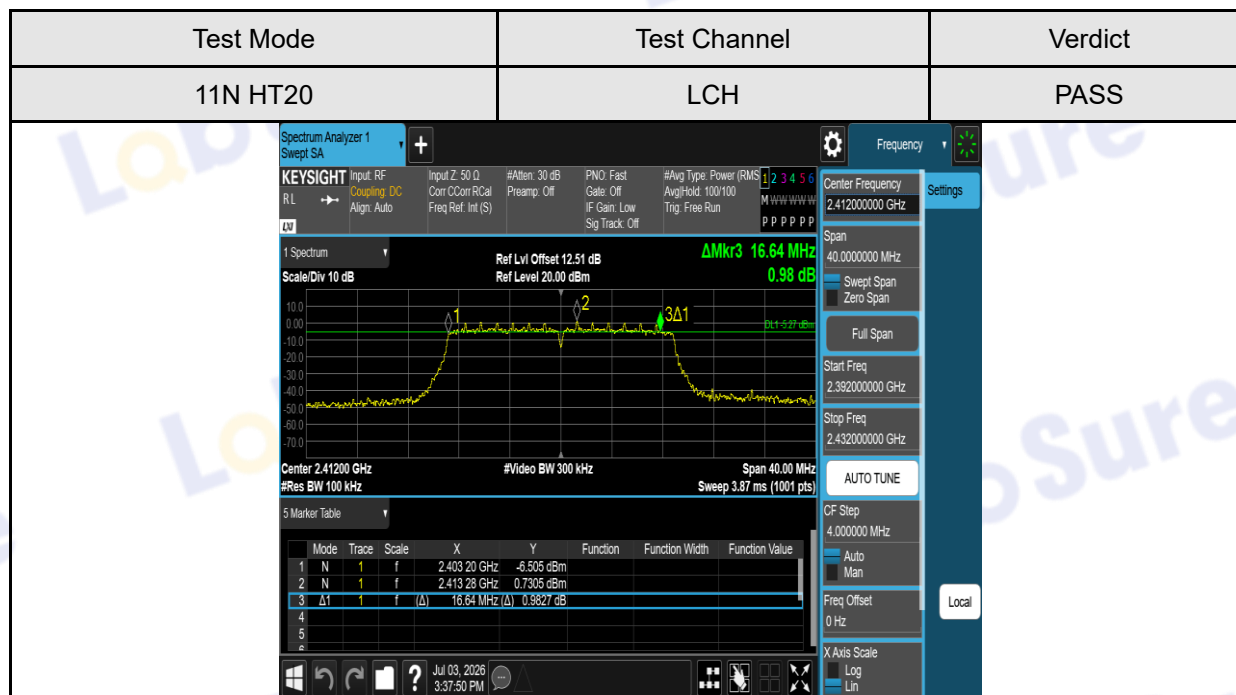
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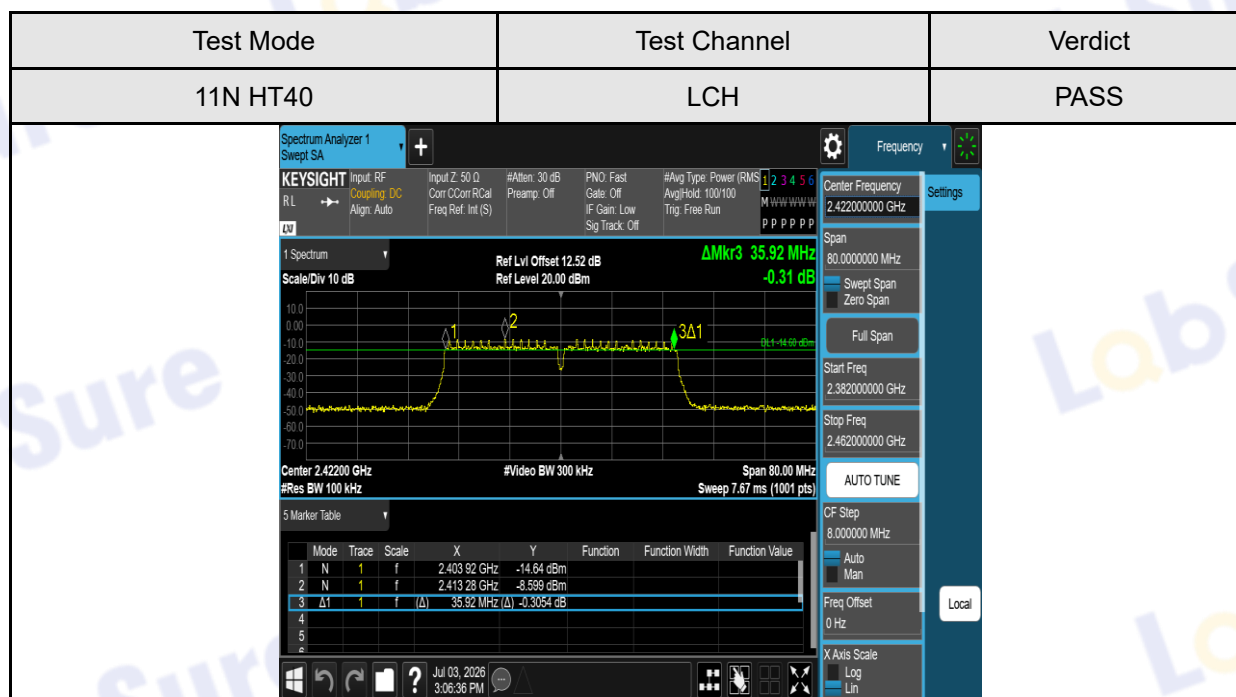
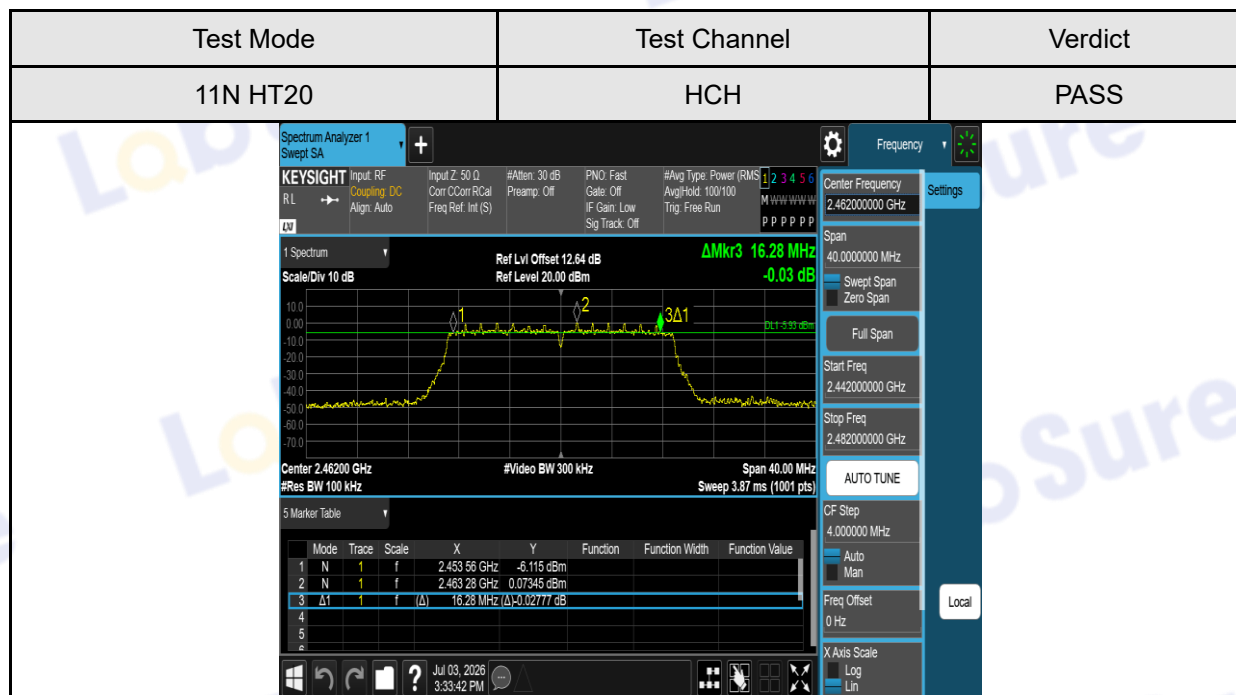
Test Mode	Test Channel	Verdict
11B	MCH	PASS

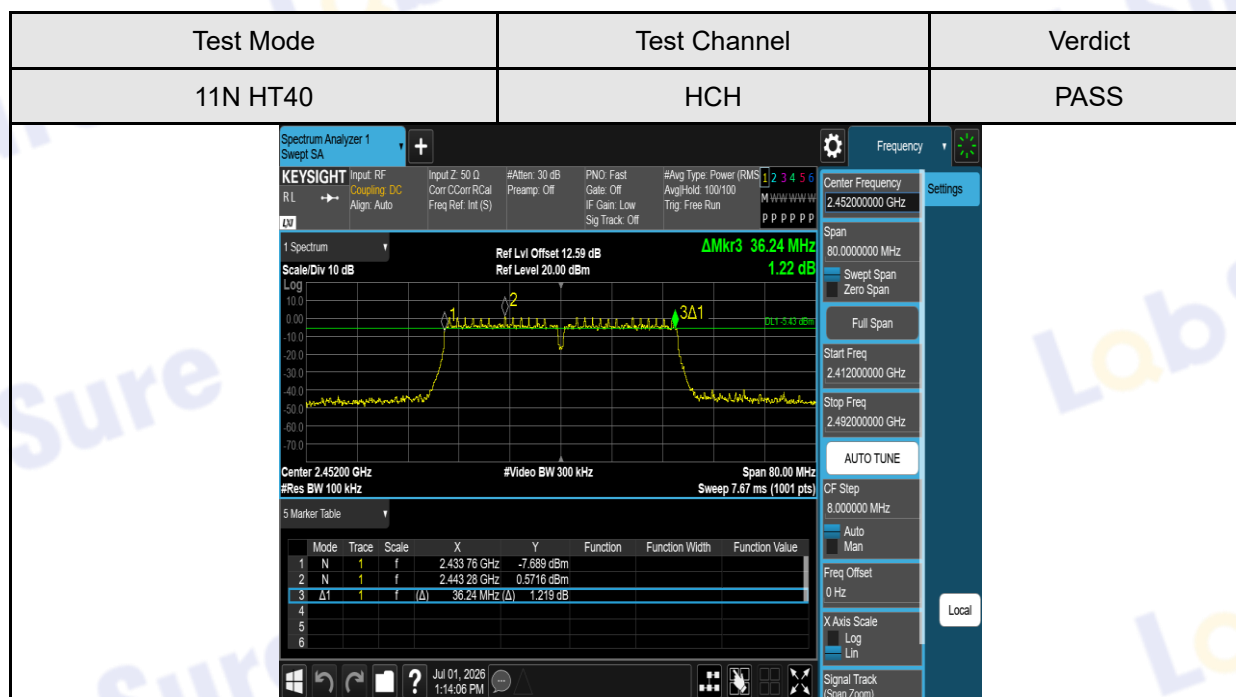
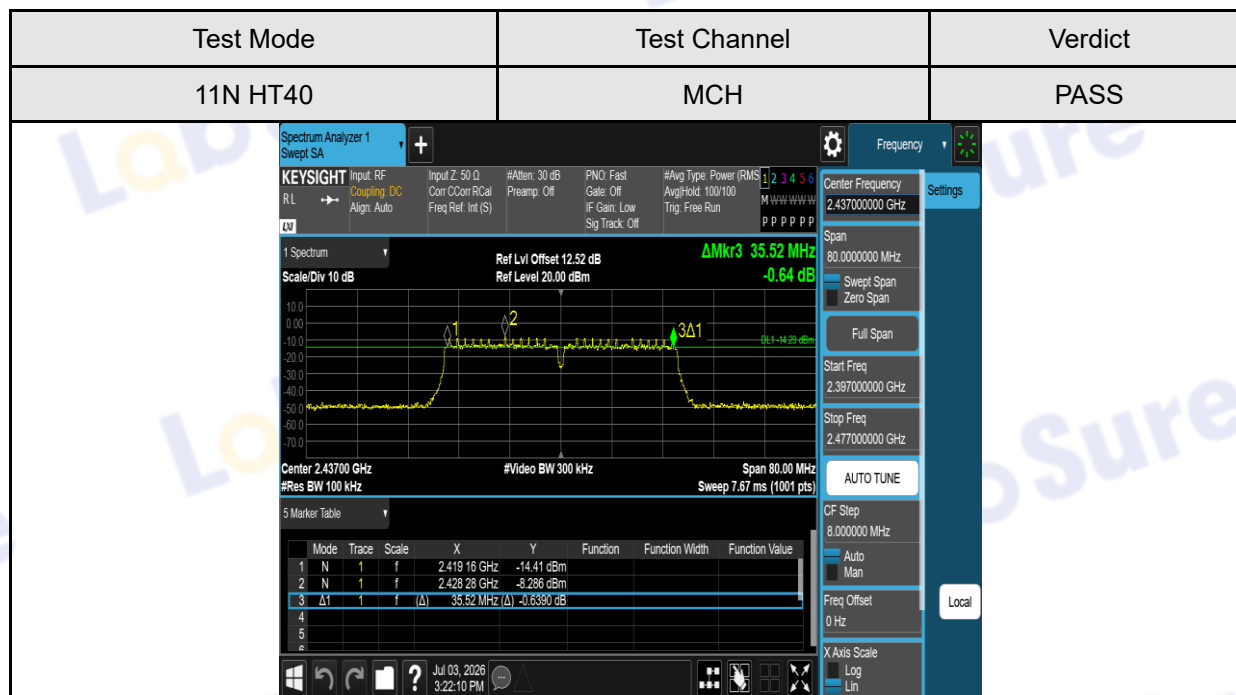
The screenshot shows a Spectrum Analyzer interface. The top status bar indicates 'Test Mode: 11B', 'Test Channel: MCH', and 'Verdict: PASS'. The main display area shows a spectrum plot with a yellow signal trace. Three markers are placed on the trace: Marker 1 at 2.43188 GHz (-3.716 dBm), Marker 2 at 2.43852 GHz (3.283 dBm), and Marker 3 at 2.43852 GHz (0.7635 dBm). The plot shows a signal with a peak around 2.438 GHz. The right-hand control panel shows various settings, including Center Frequency (2.43700000 GHz), Span (40.000000 MHz), and a 'Local' indicator.

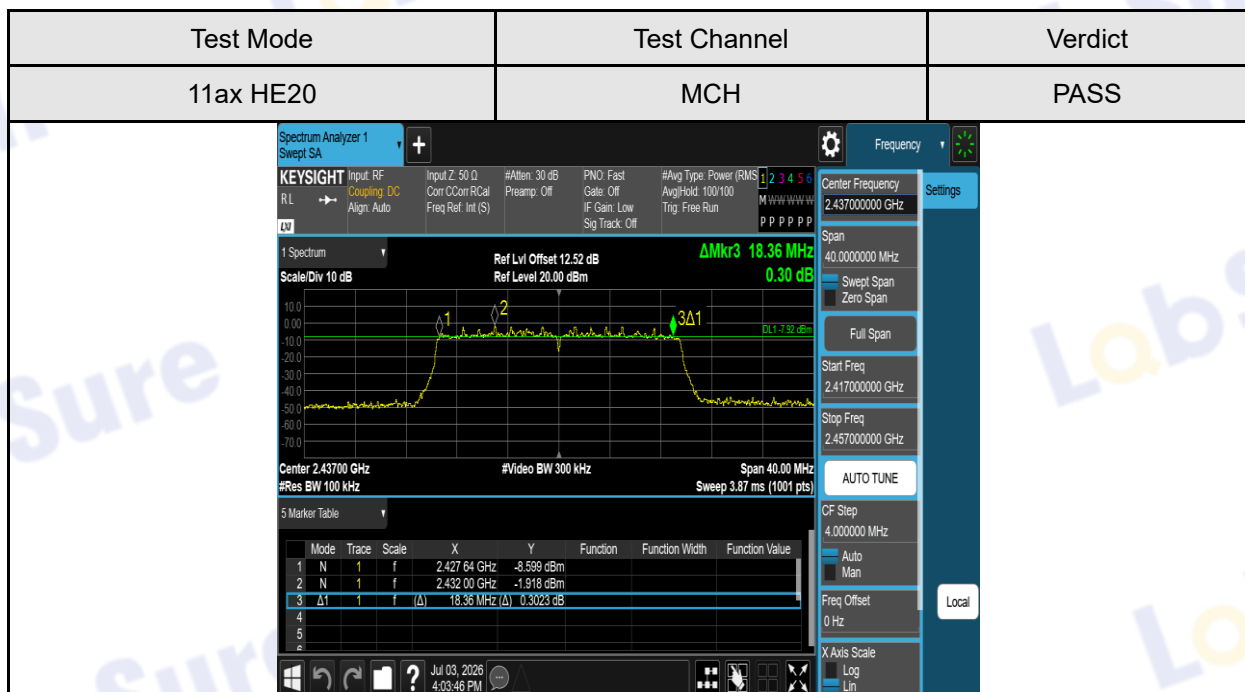
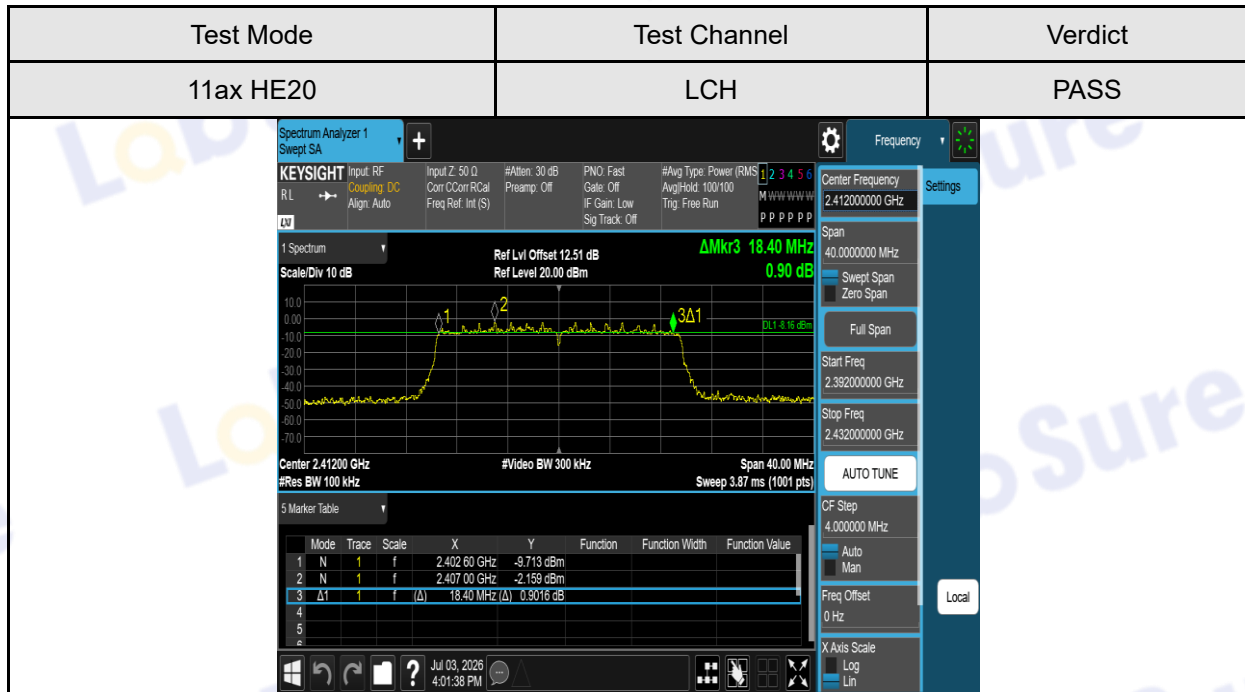




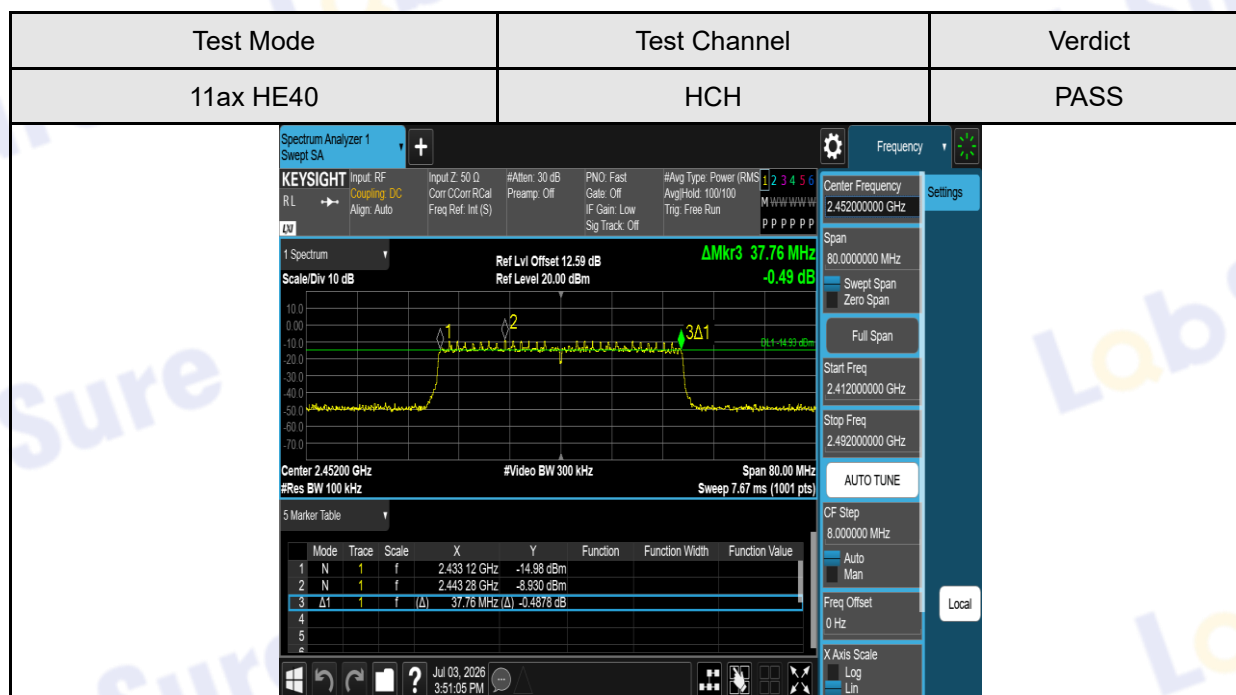
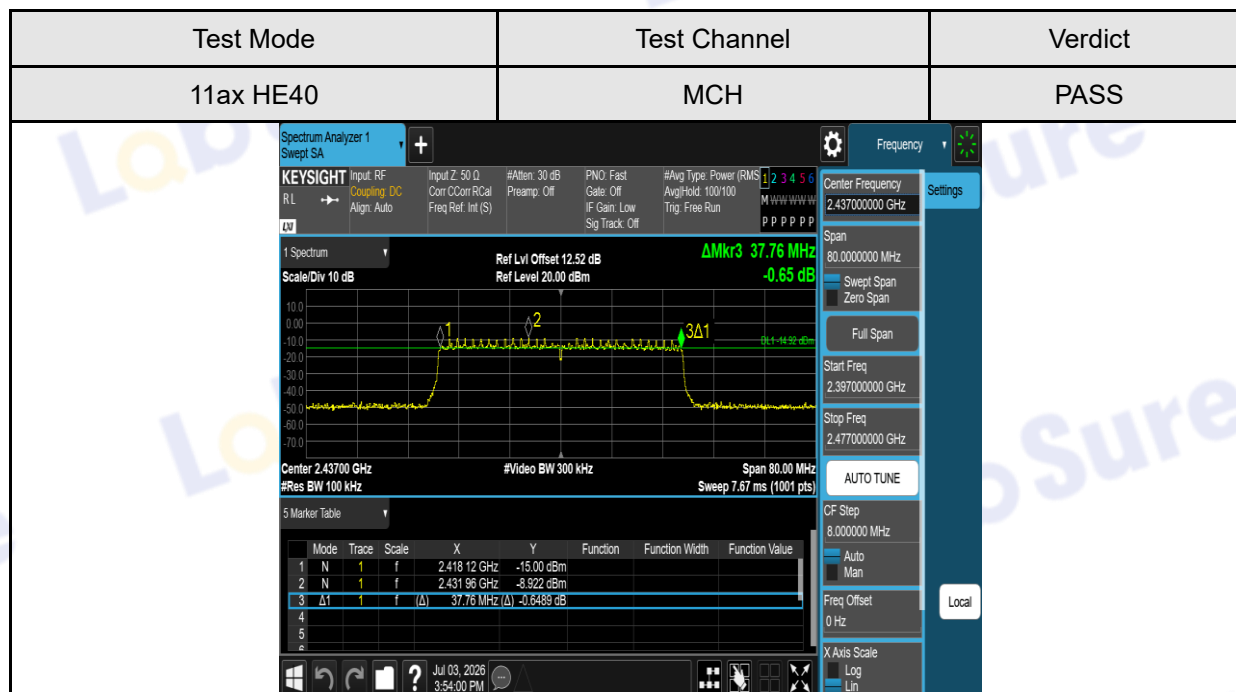




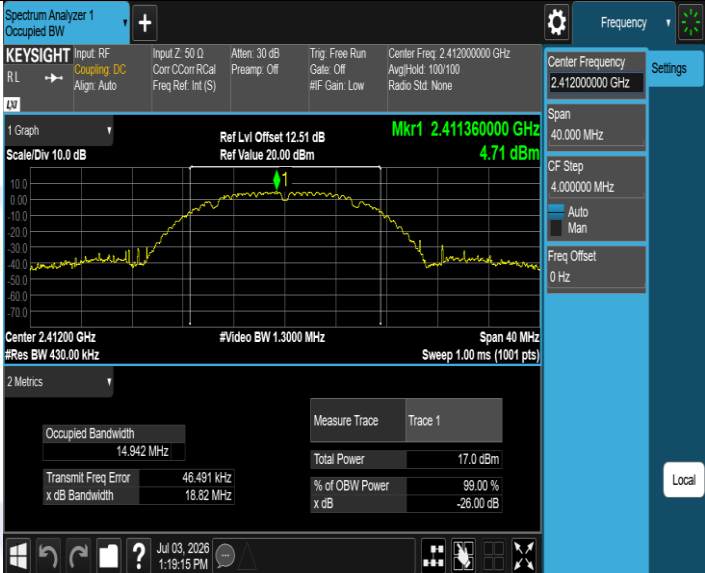


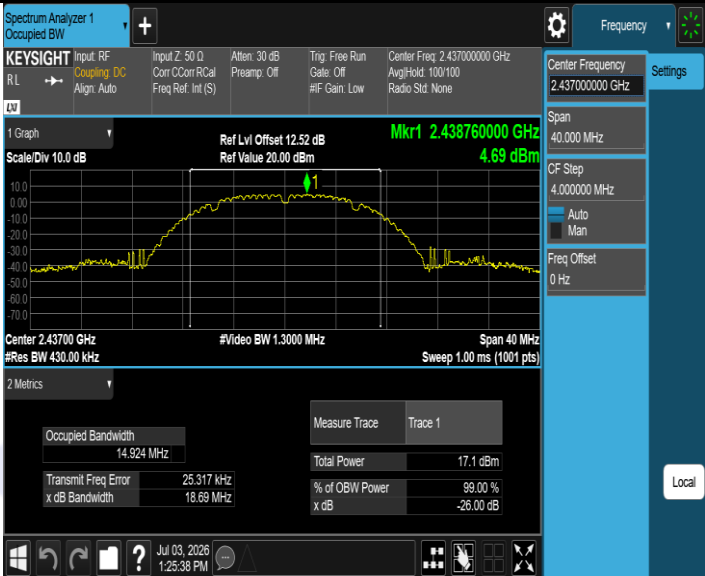


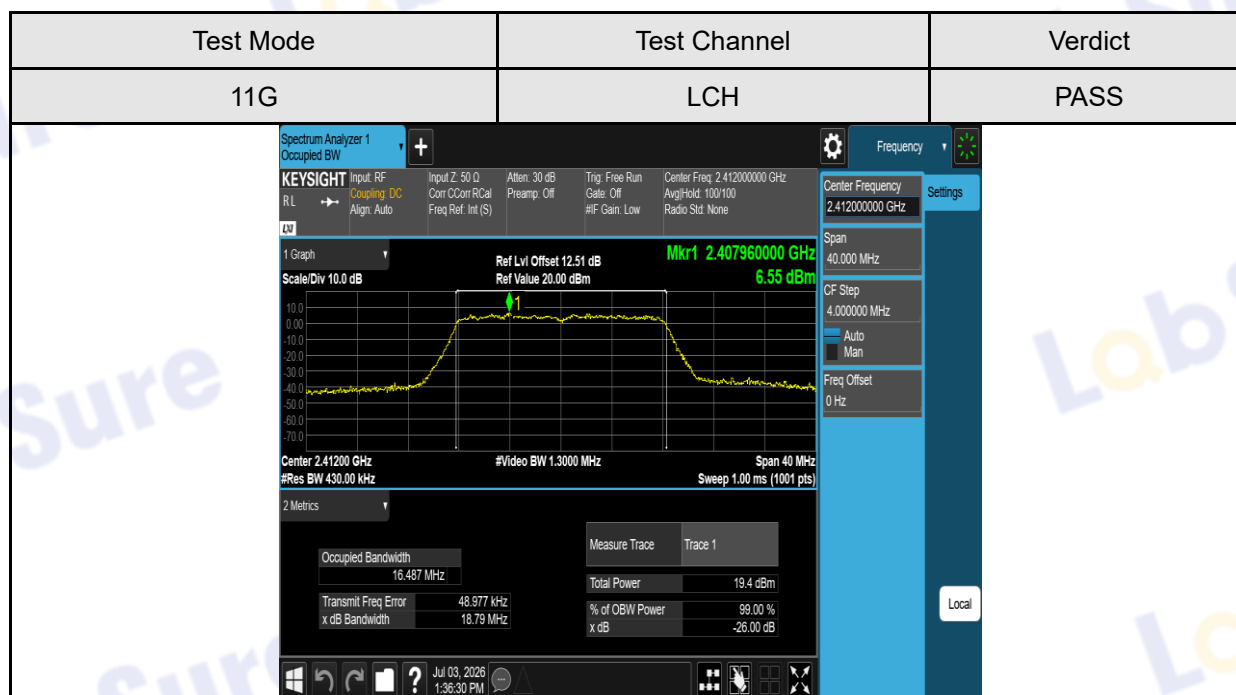
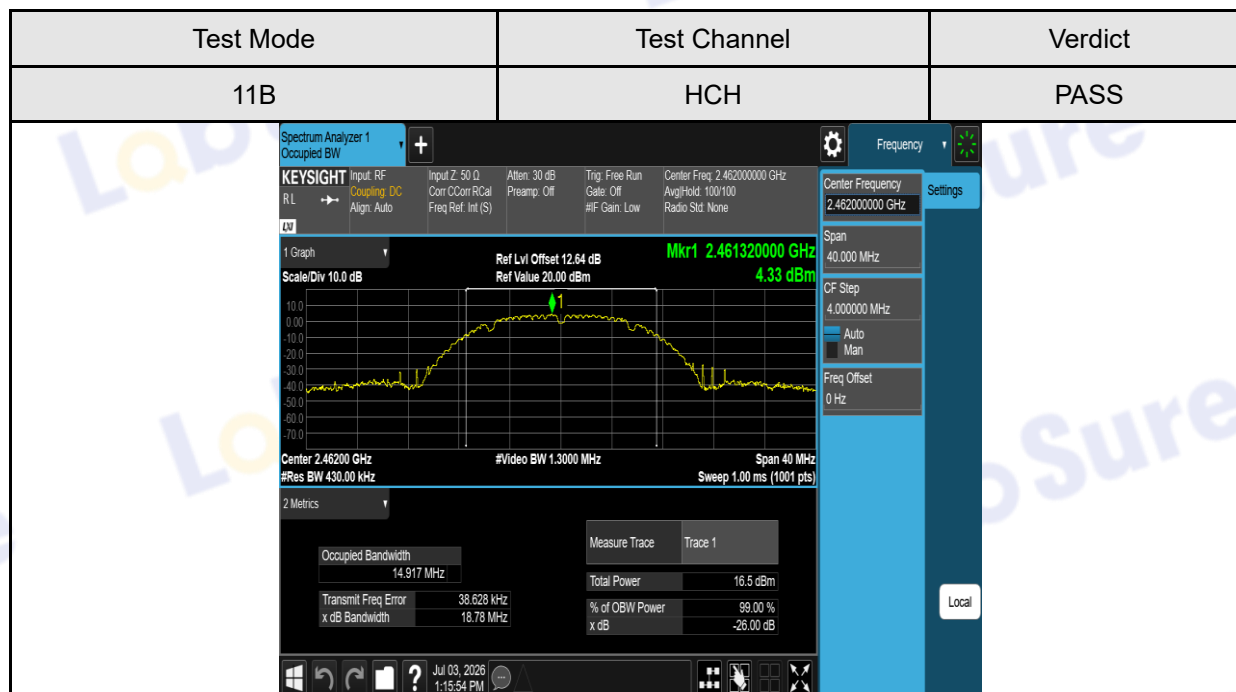
Test Mode	Test Channel	Verdict
11ax HE40	LCH	PASS

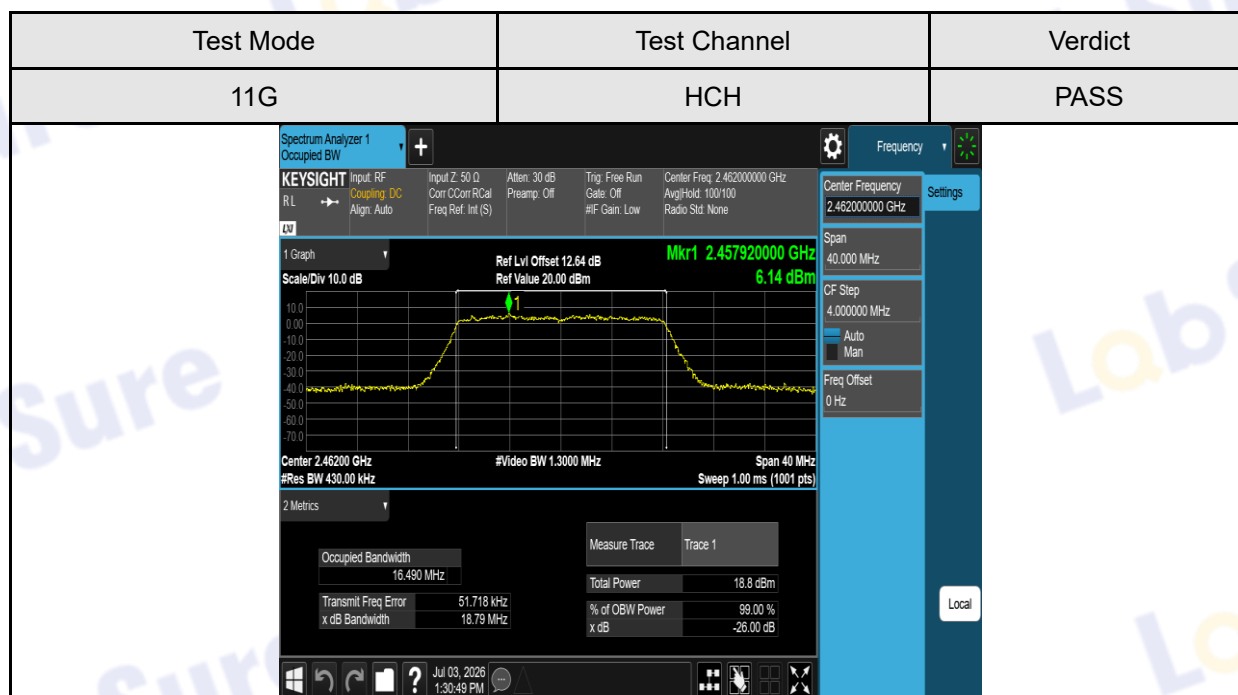
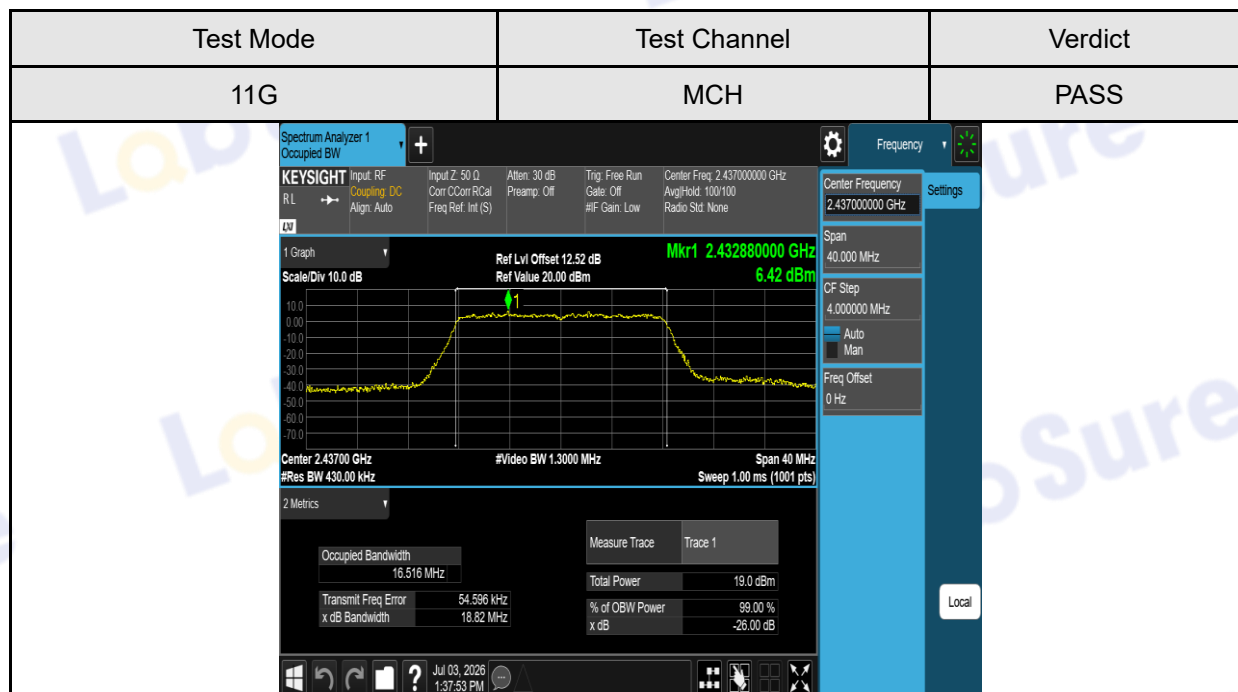


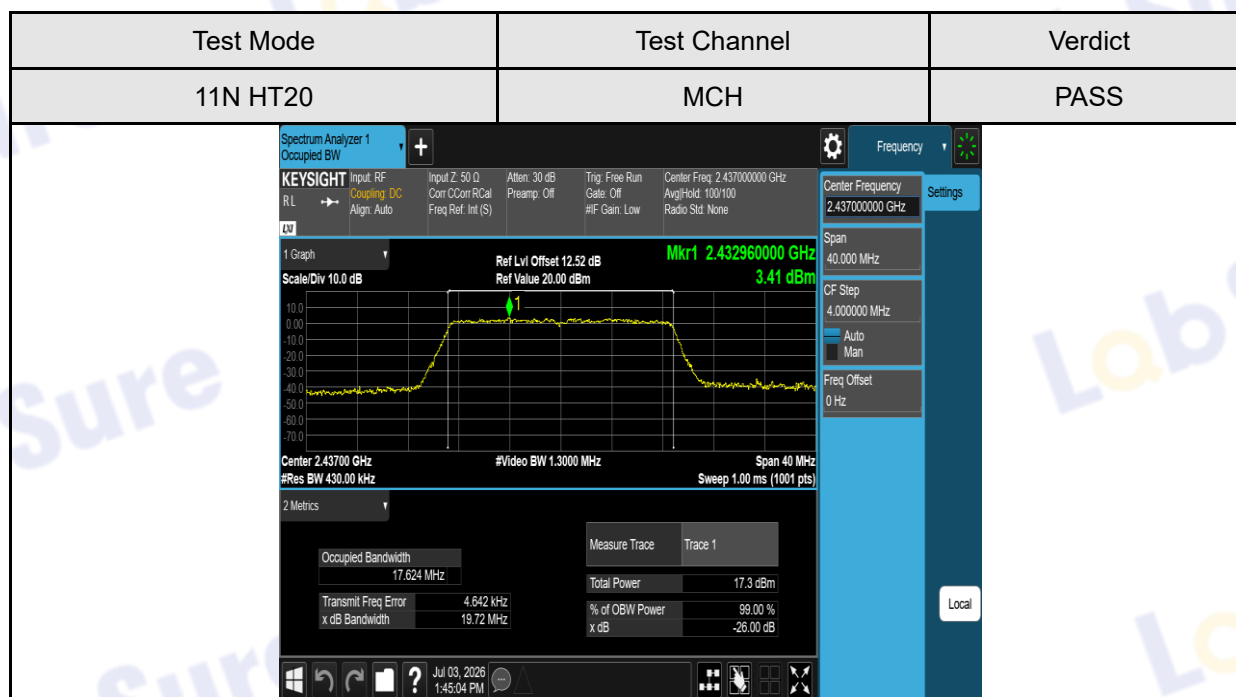
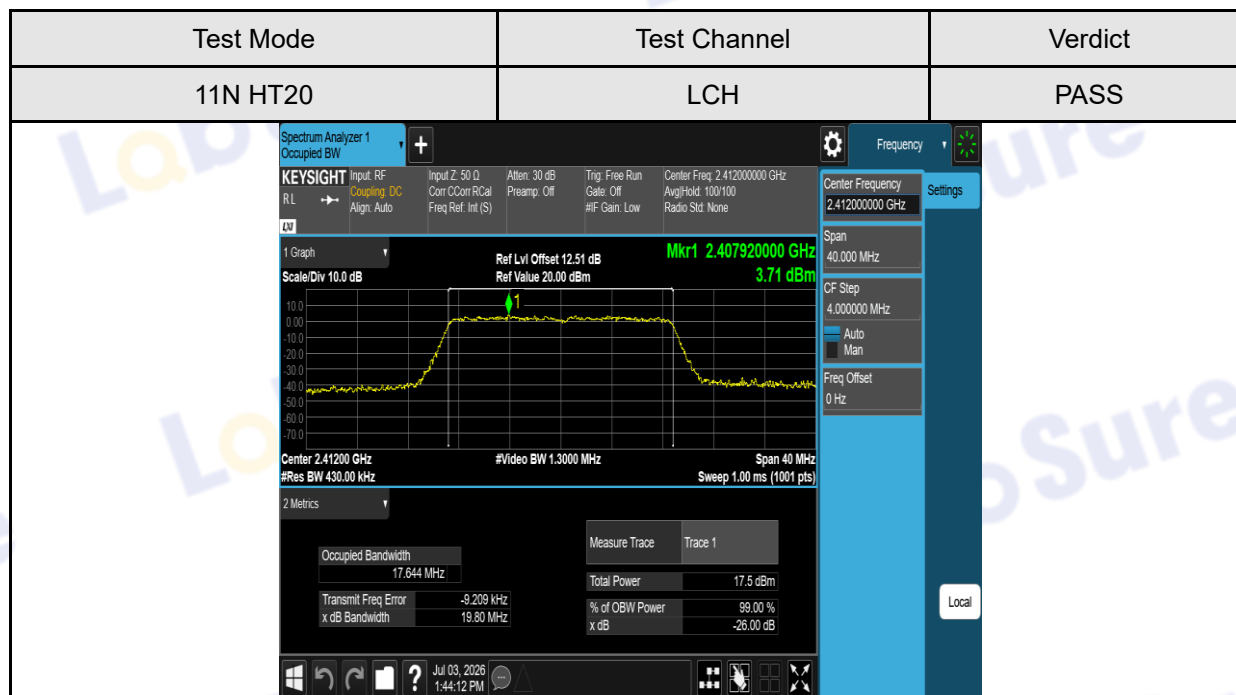
PART II: 99% Bandwidth:

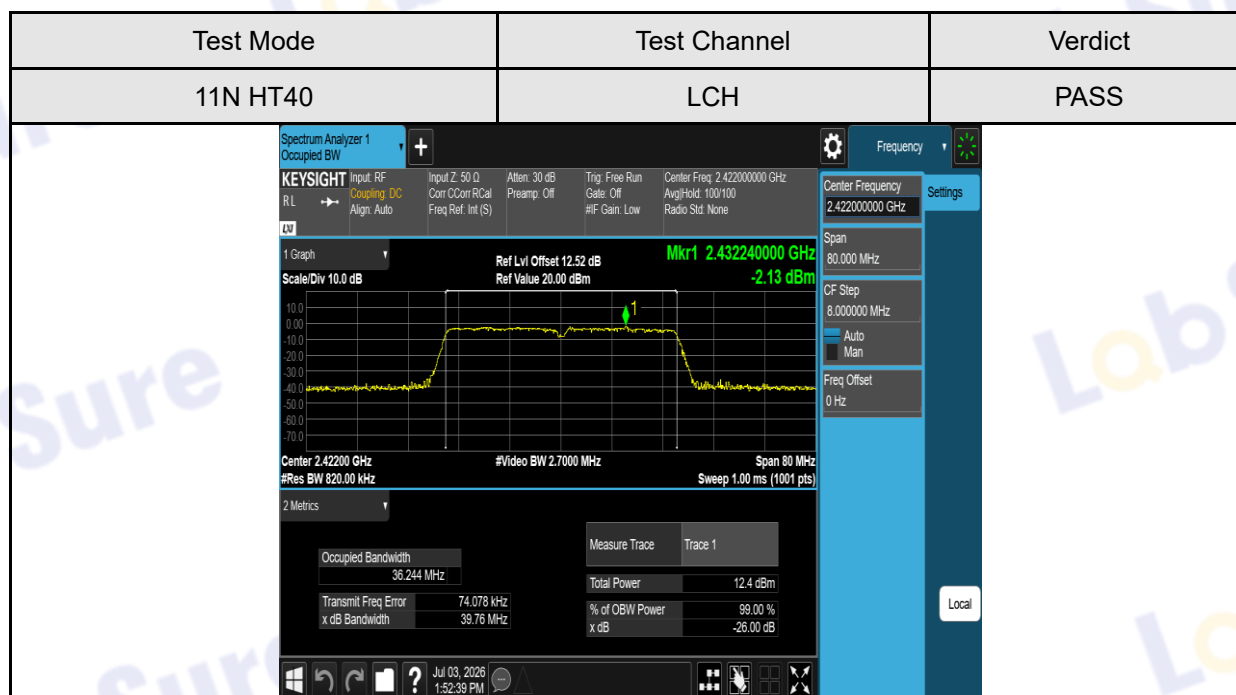
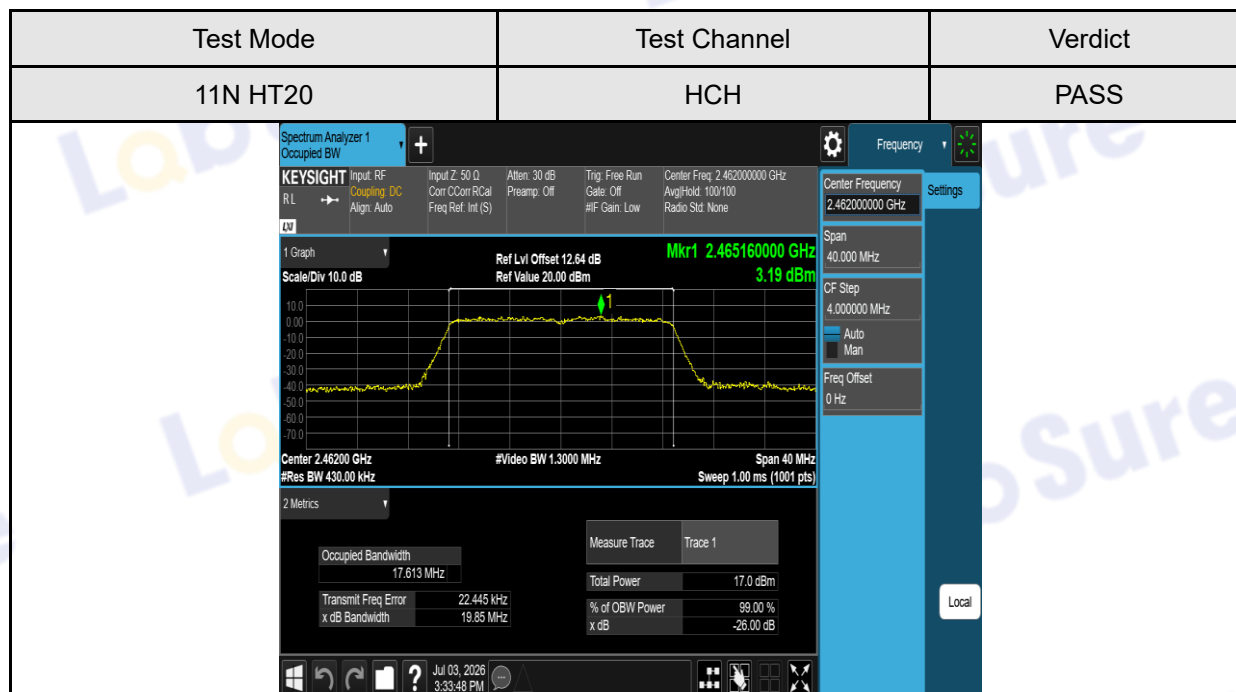
Test Mode	Test Channel	Verdict
11B	LCH	PASS
		

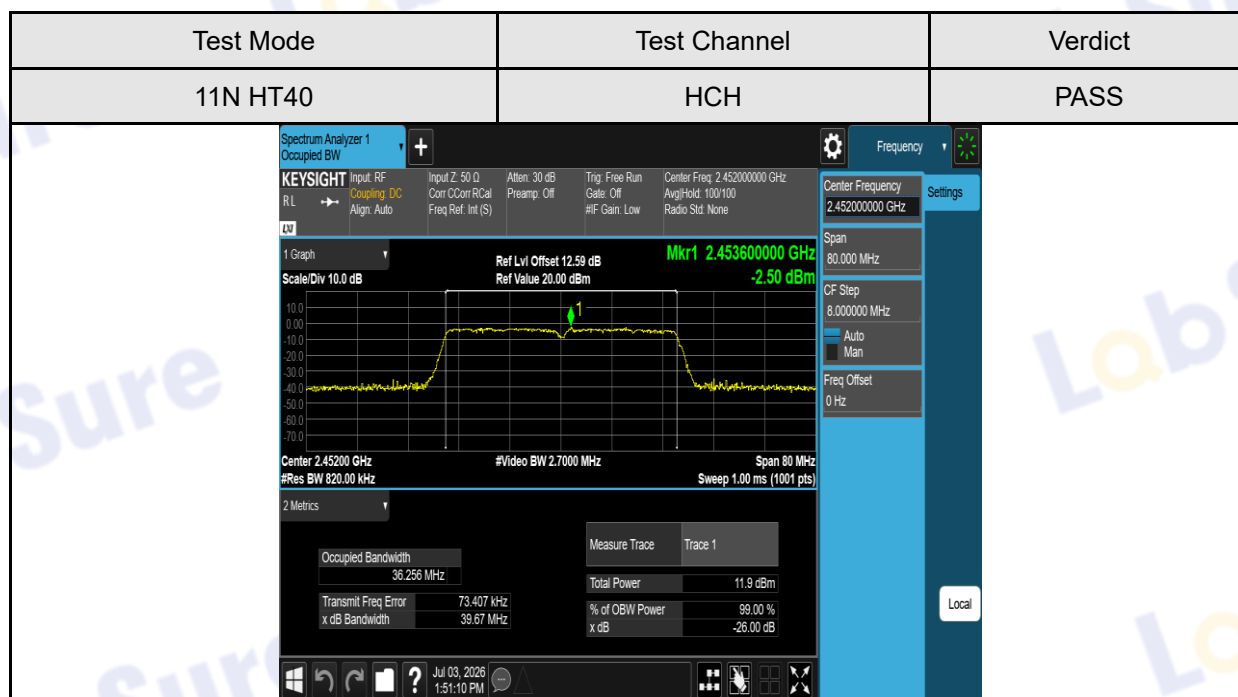
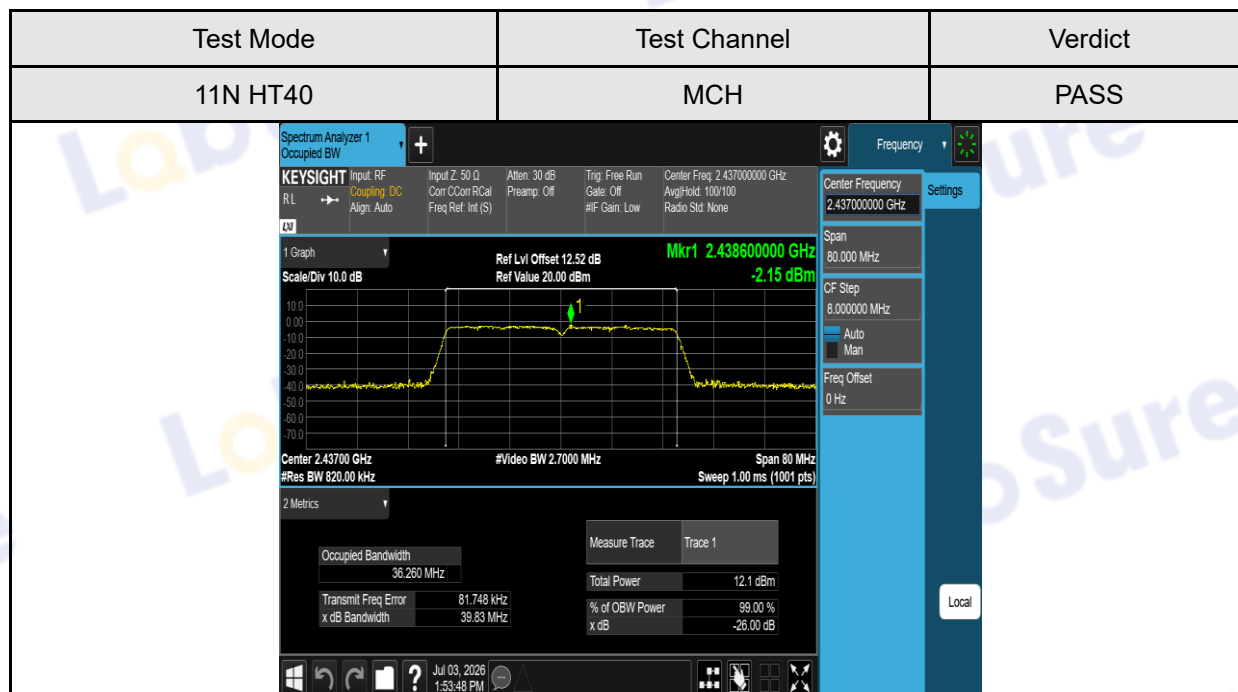
Test Mode	Test Channel	Verdict
11B	MCH	PASS
		

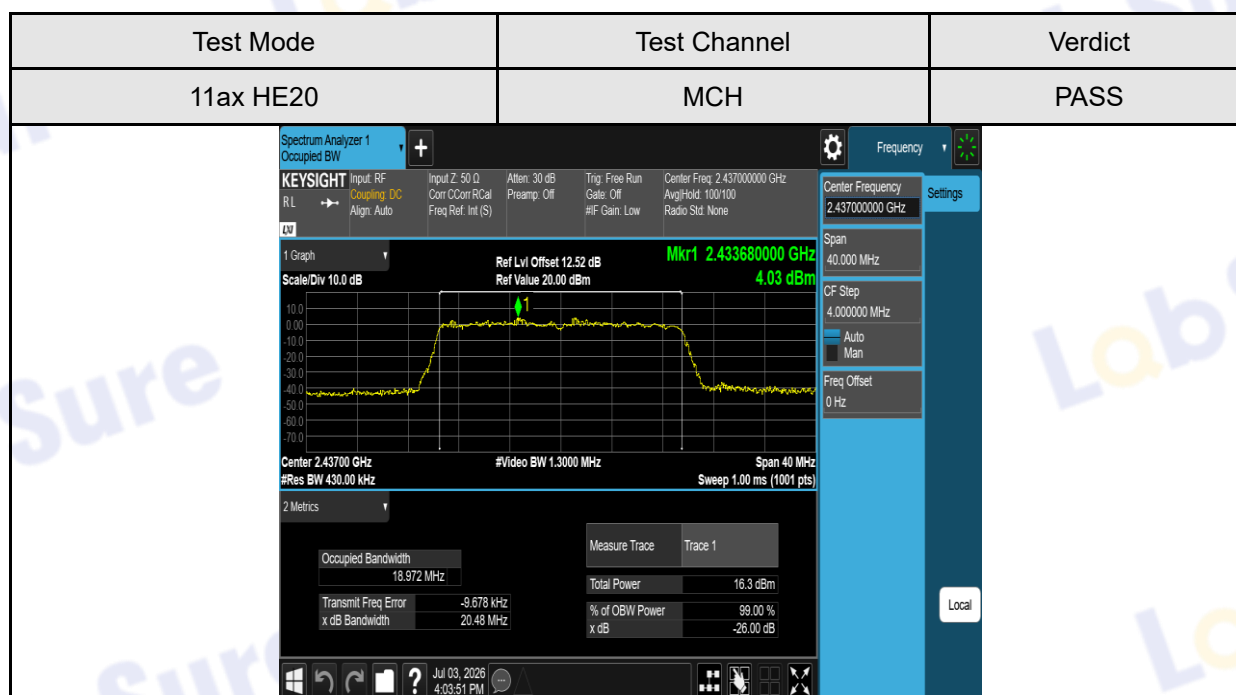
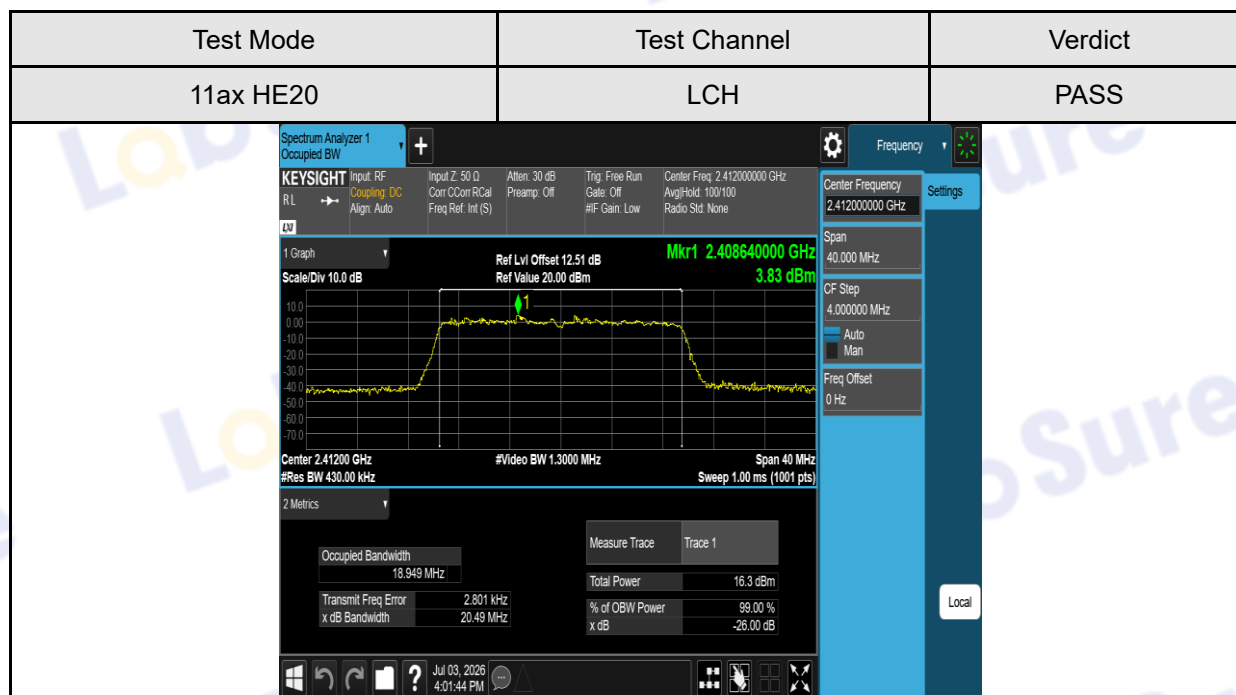


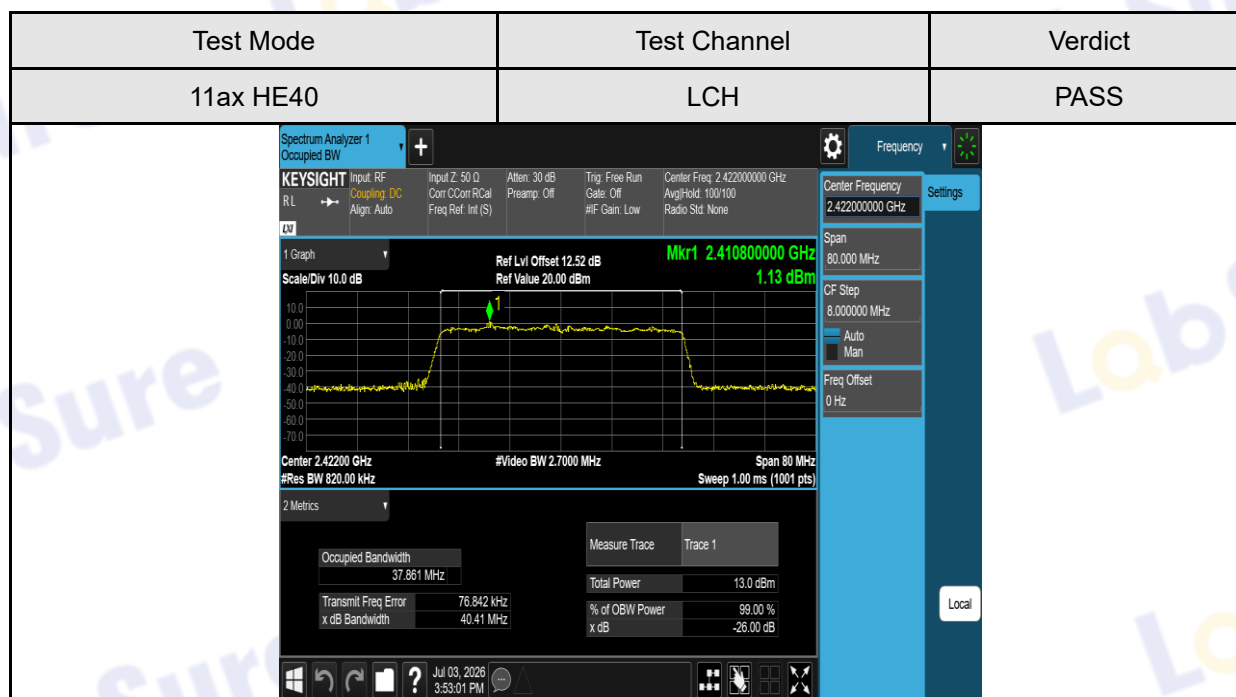
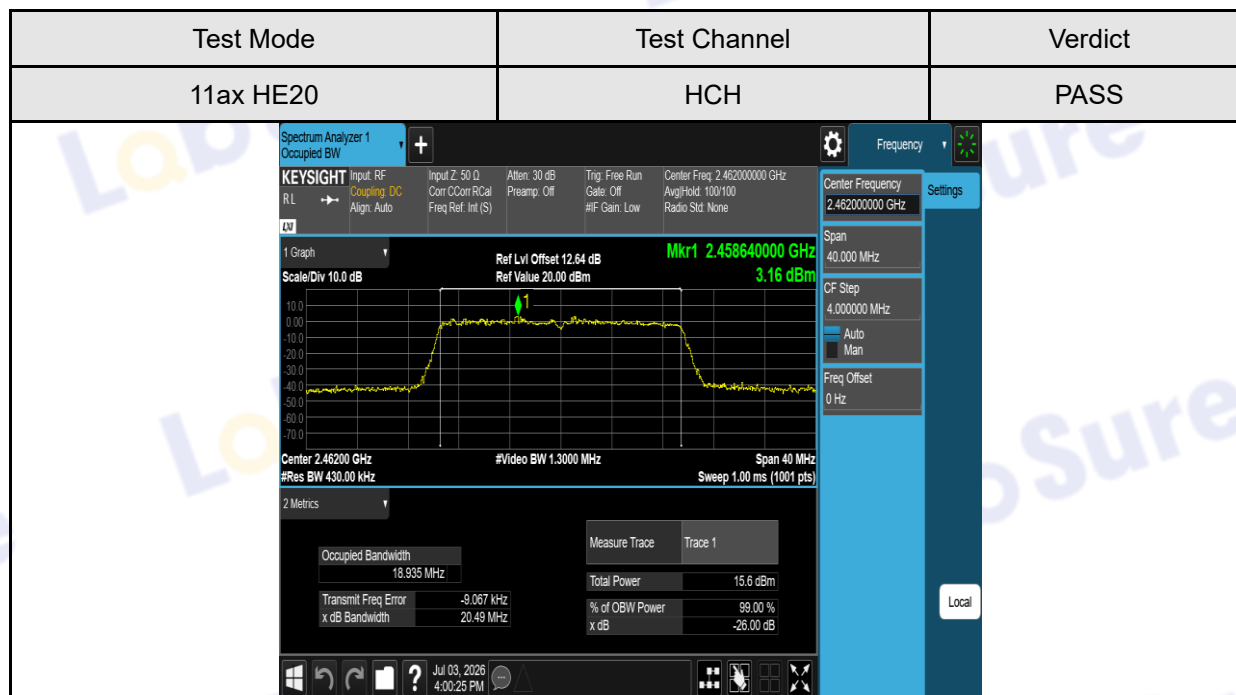


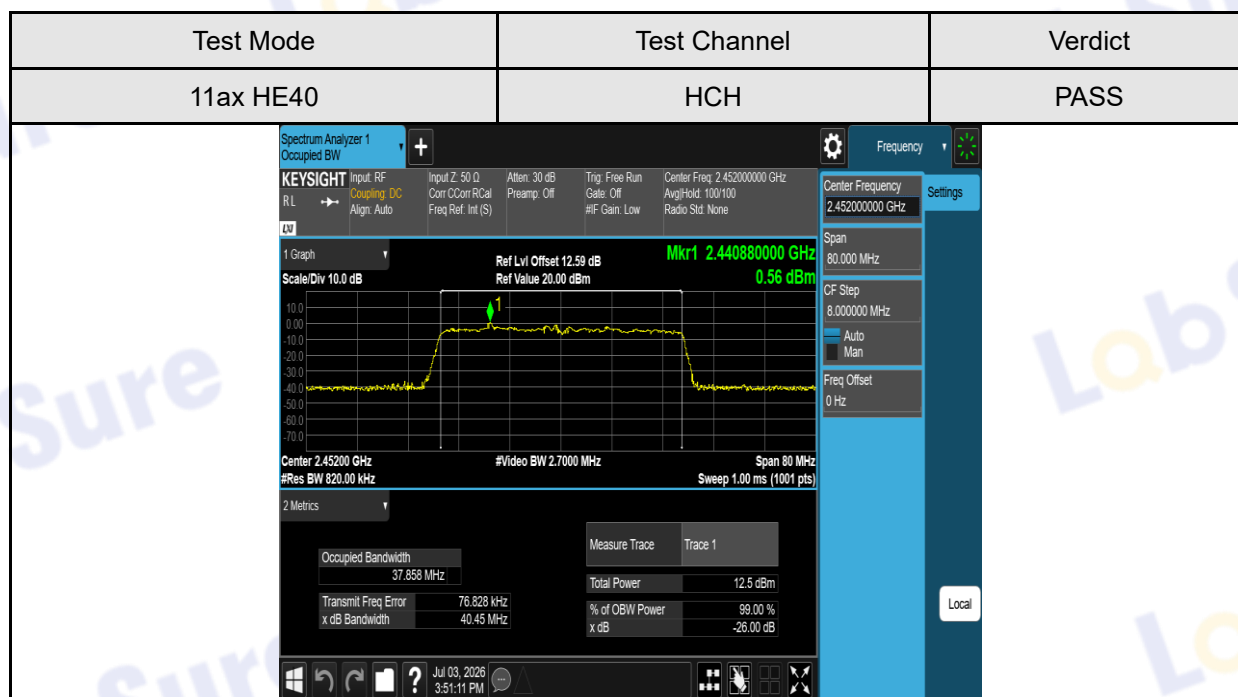
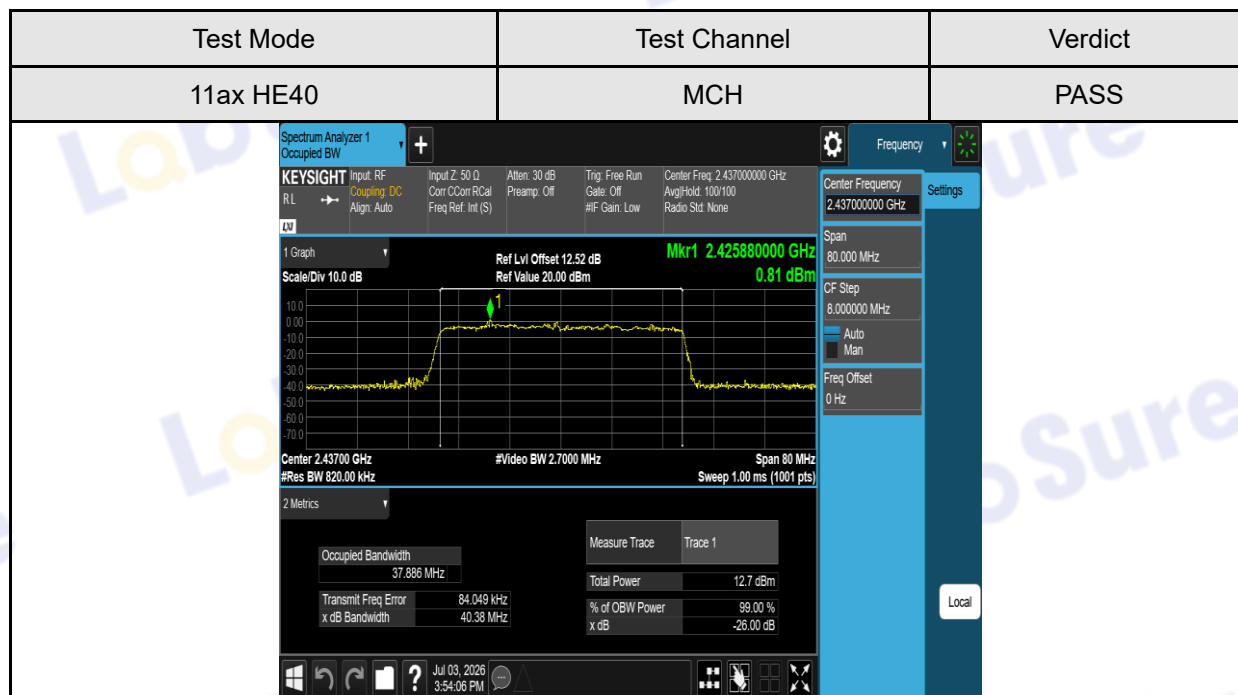






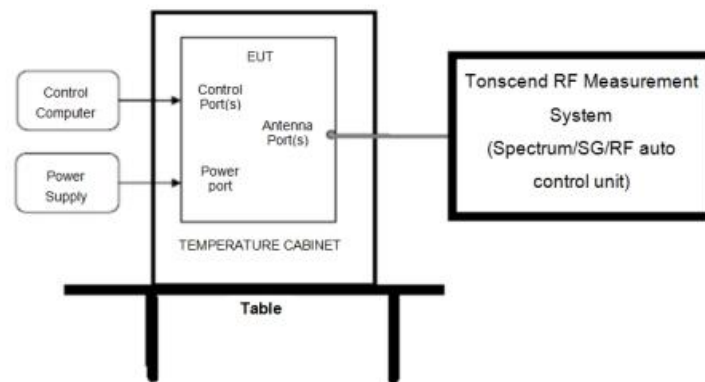






4.3. Maximum Conducted Output Power

4.3.1. Block diagram of test setup



4.3.2. Limits

FCC Part15 (15.247) Subpart C, RSS 247			
Section	Test Item	Limit	Frequency Range (MHz)
FCC 15.247(b)(3)	Output Power	1 watt or 30dBm	2400-2483.5

4.3.3. Test Procedure

Method AVGSA-2 uses trace averaging across ON and OFF times of the EUT transmissions, followed by duty cycle correction. The procedure for this method is as follows:

- Measure the duty cycle D of the transmitter output signal as described in 11.6.
- Set span to at least 1.5 times the OBW.
- Set RBW = 1% to 5% of the OBW, not to exceed 1 MHz.
- Set VBW $\geq [3 \times \text{RBW}]$.
- Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto.
- Detector = RMS (i.e., power averaging), if available. Otherwise, use the sample detector mode.
- Do not use sweep triggering. Allow the sweep to “free run.”
- Trace average at least 100 traces in power averaging (rms) mode; however, the number of traces to be averaged shall be increased above 100 as needed such that the average accurately represents the true average over the ON and OFF periods of the transmitter.

j) Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function with band limits set equal to the OBW band edges. If the instrument does not have a band power function, then sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

k) Add $[10 \log (1 / D)]$, where D is the duty cycle, to the measured power to compute the average power during the actual transmission times (because the measurement represents an average over both the ON and OFF times of the transmission). For example, add $[10 \log (1/0.25)] = 6 \text{ dB}$ if the duty cycle is 25%.

4.3.4.Test Results

TEST ENVIRONMENT

Temperature	24.7	Relative Humidity	51.9%
Atmosphere Pressure	100.9kPa	Test Voltage	DC 5V

TEST RESULTS TABLE

Test Mode	Test Channel	Measurement Output Power (AV)	$10\log(1/x)$ Factor	Maximum Conducted Output Power (AV)	LIMIT
		dBm	dBm	dBm	dBm
11B	LCH	13.93	0	13.93	30
	MCH	14.06	0	14.06	30
	HCH	13.47	0	13.47	30
11G	LCH	13.32	0.13	13.45	30
	MCH	13.18	0.13	13.31	30
	HCH	12.86	0.13	12.99	30
11N HT20	LCH	11.56	0.13	11.69	30
	MCH	11.23	0.13	11.36	30
	HCH	11.00	0.13	11.13	30
11N HT40	LCH	5.46	0.25	5.71	30
	MCH	5.15	0.25	5.40	30
	HCH	4.93	0.25	5.18	30
11ax HE20	LCH	9.08	0.16	9.24	30
	MCH	9.31	0.16	9.47	30
	HCH	8.41	0.16	8.57	30
11ax HE40	LCH	5.36	0.26	5.62	30
	MCH	5.16	0.26	5.42	30
	HCH	4.86	0.26	5.12	30

4.3.5.Original Test Data

