

FCC AND ISCED CERTIFICATION TEST REPORT

Applicant:	Guangzhou Xibei Intelligent Technology Co., Ltd.
Address:	Room 1102, Floor 11, Building (1), No. 6, Yunpu Fourth Road, Huangpu District, Guangzhou 510663 Guangdong P.R. China
Manufacturer:	Guangzhou Xibei Intelligent Technology Co., Ltd.
Address:	Room 1102, Floor 11, Building (1), No. 6, Yunpu Fourth Road, Huangpu District, Guangzhou 510663 Guangdong P.R. China
Product Description:	Seedpace Interactive Player
Brand Name:	seedpace
Tested Model:	XHS10A
FCC ID:	2BPJD-XHS10A
IC:	33985-XHS10A
Report No.:	JCF250507071-003
Received Date:	May. 07, 2025
Tested Date:	May. 07, 2025 - May. 17, 2025
Issued Date:	May. 17, 2025
Test Standards:	FCC Rules and Regulations Part 15 Subpart C, RSS-247 Issue 3 August 2023
Test Procedure:	ANSI C63.10:2013, RSS-Gen Issue 5 A2, Feb. 2021
Test Result:	Pass

Prepared By:



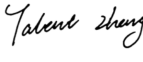
Kennys Zhang/Engineer **Date:** May. 17, 2025

Reviewed By:



Roger Li/Engineer **Date:** May. 17, 2025

Approved By:



Talent Zhang/Engineer **Date:** May. 17, 2025

Note: The test results in this report apply exclusively to the tested model / sample. Without written approval of Guangzhou Jingce Testing Technology Co., Ltd. the test report shall not be reproduced except in full.

Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	May. 17, 2025	Original Report	/

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1. Test Report Declare

Applicant:	Guangzhou Xibeisi Intelligent Technology Co., Ltd.
Address:	Room 1102, Floor 11, Building (1), No. 6, Yunpu Fourth Road, Huangpu District, Guangzhou 510663 Guangdong P.R. China
Manufacturer:	Guangzhou Xibeisi Intelligent Technology Co., Ltd.
Address:	Room 1102, Floor 11, Building (1), No. 6, Yunpu Fourth Road, Huangpu District, Guangzhou 510663 Guangdong P.R. China
Product Name:	Seedpace Interactive Player
Brand Name:	seedpace
Model Name:	XHS10A
Difference Description:	N/A

We Declare:

The equipment described above is tested by Guangzhou Jingce Testing Technology 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 Guangzhou Jingce Testing Technology Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests except as provided information by clients.

2. Summary of Test Results

Summary of Test Results			
Clause	Test Items	FCC/ISED Rules	Test Results
1	6dB Bandwidth and 99 % Occupied Bandwidth	FCC Part 15.247 (a) (2) RSS-247 Clause 5.2 (a) ISED RSS-Gen Clause 6.7	Pass
2	Peak Conducted Output Power	FCC Part 15.247 (b) (3) RSS-247 Clause 5.4 (d)	Pass
3	Power Spectral Density	FCC Part 15.247 (e) RSS-247 Clause 5.2 (b)	Pass
4	Conducted Bandedge and Spurious Emission	FCC Part 15.247 (d) RSS-247 Clause 5.5	Pass
5	Radiated Bandedge and Spurious Emission	FCC Part 15.247 (d) FCC Part 15.209 FCC Part 15.205 RSS-247 Clause 5.5 RSS-GEN Clause 8.9	Pass
6	Conducted Emission Test For AC Power Port	FCC Part 15.207 RSS-GEN Clause 8.8	Pass
7	Antenna Requirement	FCC Part 15.203 RSS-GEN Clause 6.8	Pass

3. Test Laboratory

Guangzhou Jingce Testing Technology Co., Ltd.

Add.: No.10, Hefeng No.1 street, Huangpu District, Guangzhou, Guangdong, People's Republic of China

Association for Laboratory Accreditation(A2LA). Certificate Number: 6594.03

FCC Designation Number: CN1381. Test Firm Registration Number: 486550

IC Test Firm Registration Number: 31808

Conformity Assessment Body identifier: CN0173

4. Equipment Under Test

4.1. Description of EUT

EUT Name:	Seedpace Interactive Player
Model Number:	XHS10A
EUT Function Description:	Please refer to the user manual of this device
Power Supply:	5V $\pm$ 1A
Sample No.	25050707-01-01
Hardware Version:	N/A
Software Version:	N/A
Radio Specification:	IEEE802.11b/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 (HT20/40): OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ax (HE20/40): OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)
Data 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: 7.2, 14.4, 21.7, 28.9, 43.3, 57.8, 65.0, 72.2 Mbps IEEE 802.11n HT40: 15, 30, 45, 60, 90, 120, 135, 150 Mbps IEEE 802.11ax HE20: 8.6, 17.2, 25.8, 34.4, 51.6, 68.8, 77.4, 86, 103.2, 114.7, 129, 143.4Mbps IEEE 802.11ax HE40: 17.2, 34.4, 51.6, 68.8, 103.2, 137.6, 154.9, 172.1, 206.5, 229.4, 258.1, 286.8Mbps
Antenna Type:	FPC Antenna, MAX. Gain: 3.58 dBi

Note 1: EUT is the ab. of equipment under test.

Note 2: The antenna gain is declared by the customer and the laboratory is not responsible for the accuracy of the antenna gain.

4.2. Channel List

Channel List for 802.11b/g/n/ax (20 MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	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 List for 802.11n/ax (40 MHz)					
Channel	Frequency (MHz)	Channel	Frequency(MHz)	Channel	Frequency (MHz)
3	2422	6	2437	9	2452
4	2427	7	2442	/	/
5	2432	8	2447	/	/

4.3. Test Channel Configuration

Tested mode, channel and rand data rate information			
Mode	Data rate (Mbps) (see Note)	Channel	Frequency (MHz)
802.11b	1	Low: CH1	2412
	1	Middle: CH6	2437
	1	High: CH11	2462
802.11g	6	Low: CH1	2412
	6	Middle: CH6	2437
	6	High: CH11	2462
802.11n HT20	MCS 0	Low: CH1	2412
	MCS 0	Middle: CH6	2437
	MCS 0	High: CH11	2462
802.11n HT40	MCS 0	Low: CH3	2422
	MCS 0	Middle: CH6	2437
	MCS 0	High: CH9	2452
802.11ax HE20	MCS 0	Low: CH1	2412
	MCS 0	Middle: CH6	2437
	MCS 0	High: CH11	2462
802.11ax HE40	MCS 0	Low: CH3	2422
	MCS 0	Middle: CH6	2437
	MCS 0	High: 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.

4.4. Test environment conditions

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

Temperature range:	21-25 °C
Humidity range:	40-75%
Pressure range:	86-106 kPa

4.5. Description of Available Antennas

The Worse Case Power Setting Parameter under 2400 ~ 2483.5MHz Band			
Test Software		Adb	
Modulation Mode	Transmit Antenna Number	Test Software Setting Value	
		Channel	ANT1
802.11b	1	CH1	1 0 0 14
		CH6	1 0 0 11
		CH11	1 0 0 11
802.11g	1	CH1	1 0 4 11
		CH6	1 0 4 11

		CH11	1 0 4 11
802.11HT20	1	CH1	1 1 0 9
		CH6	1 1 0 9
		CH11	1 1 0 9
802.11n HT40	1	CH3	1 1 0 9
		CH6	1 1 0 9
		CH9	1 1 0 9
802.11ax HE20	1	CH1	1 2 0 9
		CH6	1 2 0 9
		CH11	1 2 0 9
802.11ax HE40	1	CH3	1 2 0 9
		CH6	1 2 0 9
		CH9	1 2 0 9

4.6. Description of Available Antennas

Test Mode	Transmit and Receive Mode	Description
IEEE 802.11b	☒ 1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.
IEEE 802.11g	☒ 1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.
IEEE 802.11n HT20	☒ 1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.
IEEE 802.11n HT40	☒ 1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.
IEEE 802.11ax HE20	☒ 1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.
IEEE 802.11ax HE40	☒ 1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.

5. Description of Test Setup

5.1. Accessory

Description of Accessories	Manufacturer	Model Number	Description	Remark
/	/	/	/	/

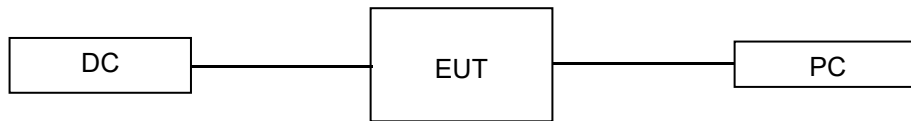
5.2. Support Equipment

Equipment	Brand Name	Model Name	P/N
PC	Lenovo	T480	/

5.3. Test Setup

The EUT can work in Fixed Frequency mode.

5.4. Setup Diagram for Tests



6. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Uncertainty
AC Power Conduction emission	1.37 dB
All Radiated emissions	5.4dB
Conducted emissions	3.09 dB
Occupied Channel Bandwidth	1.1%
Conducted Output power	0.82dB
Power Spectral Density	0.82dB
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95 % confidence level using a coverage factor of k = 2.	

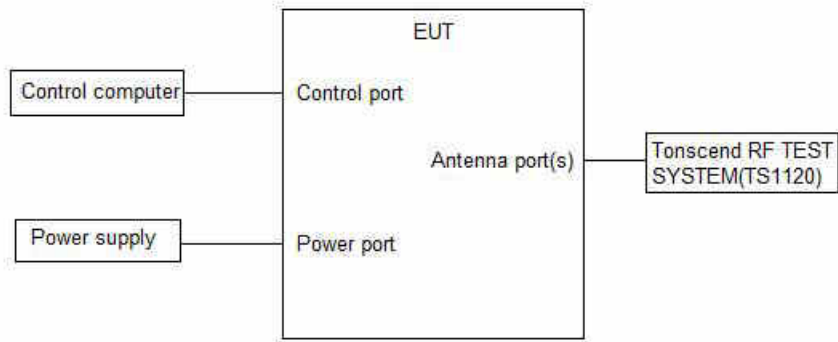
7. Measuring Instrument and Software Used

TS Test System						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
☒	Spectrum Analyzer	Keysight	N9030B	MY56320512	Aug. 22, 2024	Aug. 21, 2025
☒	Vector Signal Generator	Keysight	N5182B	MY57300334	Aug. 22, 2024	Aug. 21, 2025
☒	Signal Generator	Keysight	N5171B	MY57280639	Aug. 22, 2024	Aug. 21, 2025
☒	DC POWER	Keysight	E342A	MY59020356	Aug. 29, 2024	Aug. 28, 2025
☒	Incubator thermometer	GWS	EL-02JA	21107288	Aug. 15, 2024	Aug. 14, 2025
☒	Control unit(Power sensor)	Tonscend	JS0806-2	/	Aug. 23, 2024	Aug. 22, 2025
☒	Spectrum Analyzer	Keysight	N9020B	MY60112206	Sep. 11, 2024	Sep. 10, 2025
☒	Control unit(Power sensor)	Tonscend	JS0806-2	21H8060465	Aug. 22, 2024	Aug. 21, 2025
☒	Spectrum Analyzer	Keysight	N9020B	MY60112811	Aug. 23, 2024	Aug. 22, 2025
☒	Signal Generator	Keysight	N5173B	MY62220145	Aug. 23, 2024	Aug. 22, 2025
☒	Vector Signal Generator	Keysight	N5182B	MY61252859	Aug. 22, 2024	Aug. 21, 2025
☒	DC POWER	Keysight	E3642A	MY40005294	Aug. 30, 2024	Aug. 29, 2025
☒	Control	Tonscend	JS0806-2	24F80620865	Aug. 23, 2024	Aug. 22, 2025

	unit(Power sensor)					
Software						
Used	Description	Manufacturer	Name		Version	
☒	Test software	Tonscend	JS1120-3		V3.3.10	
RSE Test System						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
☒	EMI Receiver	R&S	ESR26	101424	Sep. 14, 2024	Sep. 13, 2025
☒	Hybrid Antenna	Schwarzbeck	VULB9163	01416	May. 22, 2024	May. 21, 2025
☒	Horn Antenna 1	Schwarzbeck	BBHA 9120 D	02910	Sep. 11, 2024	Sep. 10, 2025
☒	Horn Antenna 2	ETS	BBHA 9170	1090	Sep. 11, 2024	Sep. 10, 2025
☒	loop-antenna	Schwarzbeck	FMZB 1513-60	00030	Jan. 12, 2025	Jan. 11, 2026
☒	Test path	/	Path2: WIFI-2.4G 1-3GHz	/	Aug. 23, 2024	Aug. 22, 2025
☒	Test path	/	Path7: ALL PASS 1-18GHz	/	Aug. 23, 2024	Aug. 22, 2025
☒	Test path	/	Path9: 3GHz High PASS 3-18GHz	/	Aug. 23, 2024	Aug. 22, 2025
☒	Test path	/	Path16: 30MHz-1GHz ALL PASS NO AMP	/	Aug. 23, 2024	Aug. 22, 2025
☒	Signal Pre-Amplifier	ETS	3116C-PA	00217677	Sep. 06, 2024	Sep. 05, 2025
☒	3m Fully-anechoic Chamber	YIHENG	9m*6m*6m	001	Sep. 05, 2023	Sep. 04, 2026
Software						
Used	Description	Manufacturer	Name		Version	
☒	Test software	Tonscend	TS+		V5.0.0.0	
Conducted Emission Test For AC Power Port						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
☒	LISN	R&S	ENV216	102509	Aug. 22, 2024	Aug. 21, 2025
☒	EMI Receiver	R&S	ESR	102154	Aug. 22, 2024	Aug. 21, 2025
Software						
Used	Description	Manufacturer	Name		Version	
☒	Test software	EZ	EZ-EMC		EMEC-3A1	
Other Instrument						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
☒	Temperature & Humidity	Temperature	HTC-1	/	Sep. 04, 2024	Sep. 03, 2025

8. On Time and Duty Cycle

8.1. Block diagram of test setup



8.2. Limits

None; for reporting purposes only

8.3. Procedure

KDB 558074 Zero-Span Spectrum Analyzer Method

8.4. Results

Test Mode	Ant.	Freq. (MHz)	Transmission Duration (ms)	Transmission Period (ms)	Duty Cycle (%)
11B	Ant1	2412	8.23	8.75	94.06
		2437	8.22	8.74	94.05
		2462	8.22	8.74	94.05
11G	Ant1	2412	1.37	1.89	72.49
		2437	1.37	1.90	72.11
		2462	1.37	1.90	72.11
11N20SISO	Ant1	2412	1.27	1.80	70.56
		2437	1.28	1.80	71.11
		2462	1.27	1.80	70.56
11N40SISO	Ant1	2422	0.63	1.15	54.78
		2437	0.63	1.16	54.31
		2452	0.63	1.16	54.31
11AX20SISO	Ant1	2412	1.00	1.53	65.36
		2437	1.00	1.53	65.36
		2462	1.00	1.53	65.36
11AX40SISO	Ant1	2422	0.53	1.06	50.00
		2437	0.53	1.05	50.48
		2452	0.53	1.06	50.00

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

Where: x is Duty Cycle (Linear)

Where: T is On Time

If that calculated VBW is not available on the analyzer, then the next higher value should be used.

For mode 11b, the duty cycle is greater than 98 %, so it can set VBW to 10 Hz.

8.5. Original test data





11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



11N40SISO_Ant1_2422







9. 6 dB DTS Bandwidth and 99 % Occupied Bandwidth

9.1. Block diagram of test setup

Same as section 8.1

9.2. Limits

CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 3			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC 15.247(a)(2) ISED RSS-247 5.2 (a)	6 dB Bandwidth	≥ 500 kHz	2400-2483.5
ISED RSS-Gen Clause 6.7	99 % Occupied Bandwidth	For reporting purposes only.	2400-2483.5

9.3. Test Procedure

Connect the UUT to the spectrum analyzer and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	For 6 dB Bandwidth :100 kHz For 99 % Occupied Bandwidth :1 % to 5 % of the occupied bandwidth
VBW	For 6 dB Bandwidth: $\geq 3 \times$ RBW For 99 % Occupied Bandwidth : $\geq 3 \times$ RBW
Trace	Max hold
Sweep	Auto couple

Allow the trace to stabilize and 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 and 99 % relative to the maximum level measured in the fundamental emission.

9.4. Results

6dB bandwidth:

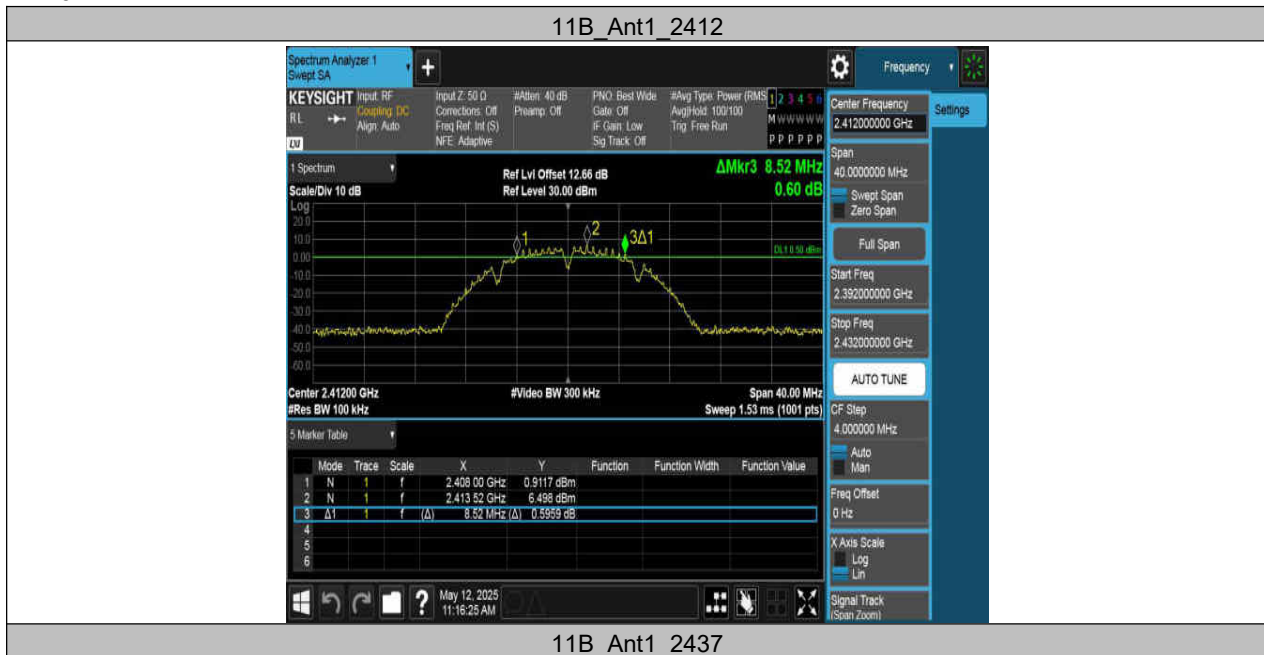
Test Mode	Ant.	Freq. (MHz)	DTS BW (MHz)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
11B	Ant1	2412	8.520	2408.000	2416.520	0.5	PASS
		2437	9.520	2432.000	2441.520	0.5	PASS
		2462	8.600	2457.960	2466.560	0.5	PASS
11G	Ant1	2412	16.040	2403.880	2419.920	0.5	PASS
		2437	16.360	2428.840	2445.200	0.5	PASS
		2462	16.320	2453.840	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.560	2403.240	2420.800	0.5	PASS
		2437	17.240	2428.280	2445.520	0.5	PASS
		2462	17.560	2453.240	2470.800	0.5	PASS
11N40SISO	Ant1	2422	35.040	2404.480	2439.520	0.5	PASS
		2437	34.240	2420.360	2454.600	0.5	PASS
		2452	35.680	2433.920	2469.600	0.5	PASS
11AX20SISO	Ant1	2412	18.360	2402.800	2421.160	0.5	PASS
		2437	18.040	2428.080	2446.120	0.5	PASS
		2462	18.600	2452.520	2471.120	0.5	PASS
11AX40SISO	Ant1	2422	34.800	2404.800	2439.600	0.5	PASS
		2437	35.920	2418.680	2454.600	0.5	PASS
		2452	35.200	2434.400	2469.600	0.5	PASS

99 % bandwidth:

Test Mode	Ant.	Channel Freq. (MHz)	OCB (MHz)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
11B	Ant1	2412	13.132	2405.5021	2418.6341	---	---
		2437	13.140	2430.4598	2443.5998	---	---
		2462	13.151	2455.4637	2468.6147	---	---
11G	Ant1	2412	17.318	2403.3280	2420.6460	---	---
		2437	17.337	2428.2414	2445.5784	---	---
		2462	17.314	2453.2263	2470.5403	---	---
11N20SISO	Ant1	2412	18.452	2402.7997	2421.2517	---	---
		2437	18.399	2427.7471	2446.1461	---	---
		2462	18.331	2452.8168	2471.1478	---	---
11N40SISO	Ant1	2422	36.602	2403.6806	2440.2826	---	---
		2437	36.564	2418.7255	2455.2895	---	---
		2452	36.636	2433.6824	2470.3184	---	---
11AX20SISO	Ant1	2412	19.227	2402.3929	2421.6199	---	---
		2437	19.252	2427.3942	2446.6462	---	---
		2462	19.289	2452.3322	2471.6212	---	---
11AX40SISO	Ant1	2422	38.003	2402.9988	2441.0018	---	---
		2437	37.995	2418.0479	2456.0429	---	---
		2452	38.170	2432.9673	2471.1373	---	---

9.5. Original test data

6dB bandwidth:





11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437





11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



11AX20SISO_Ant1_2412



11AX20SISO_Ant1_2437



11AX20SISO_Ant1_2462



11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437

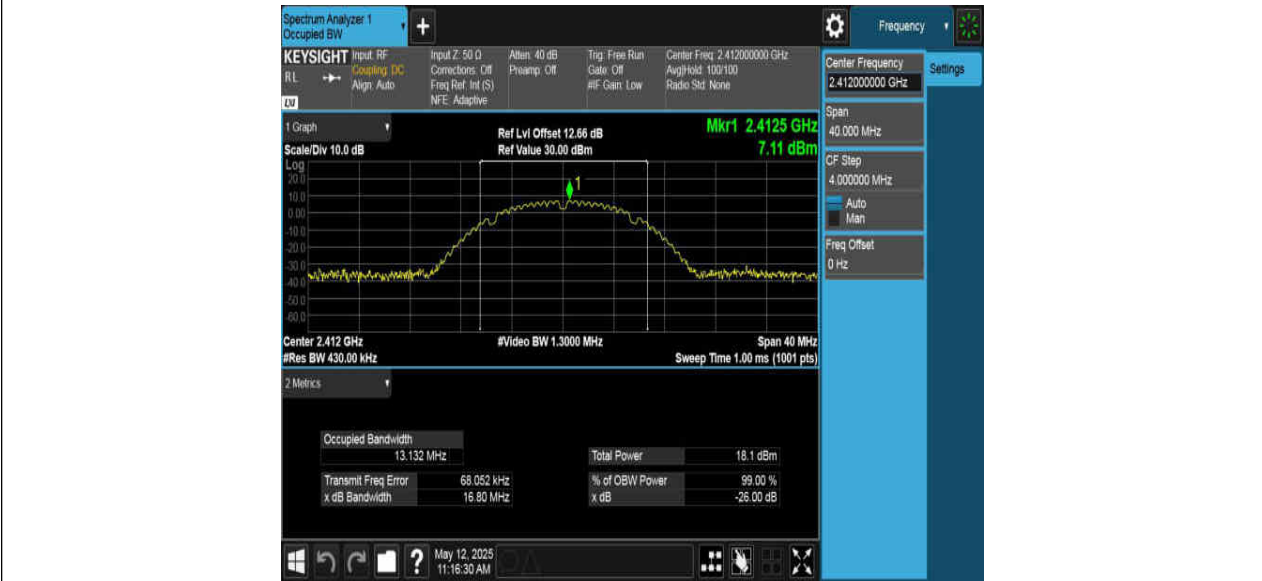


11AX40SISO_Ant1_2452

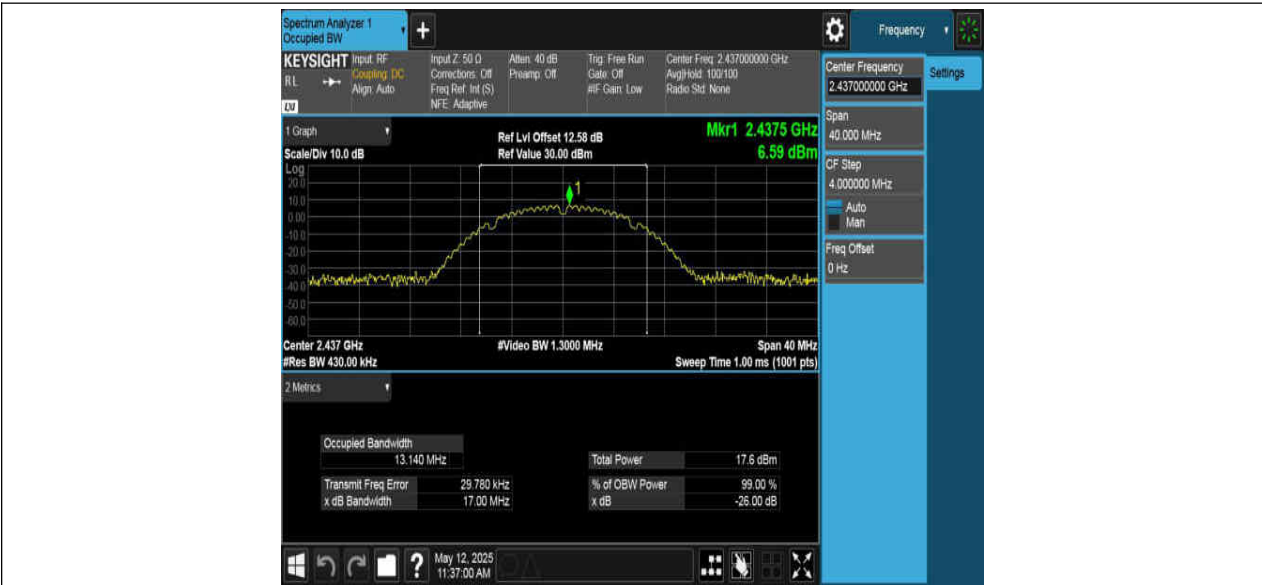


99 % bandwidth:

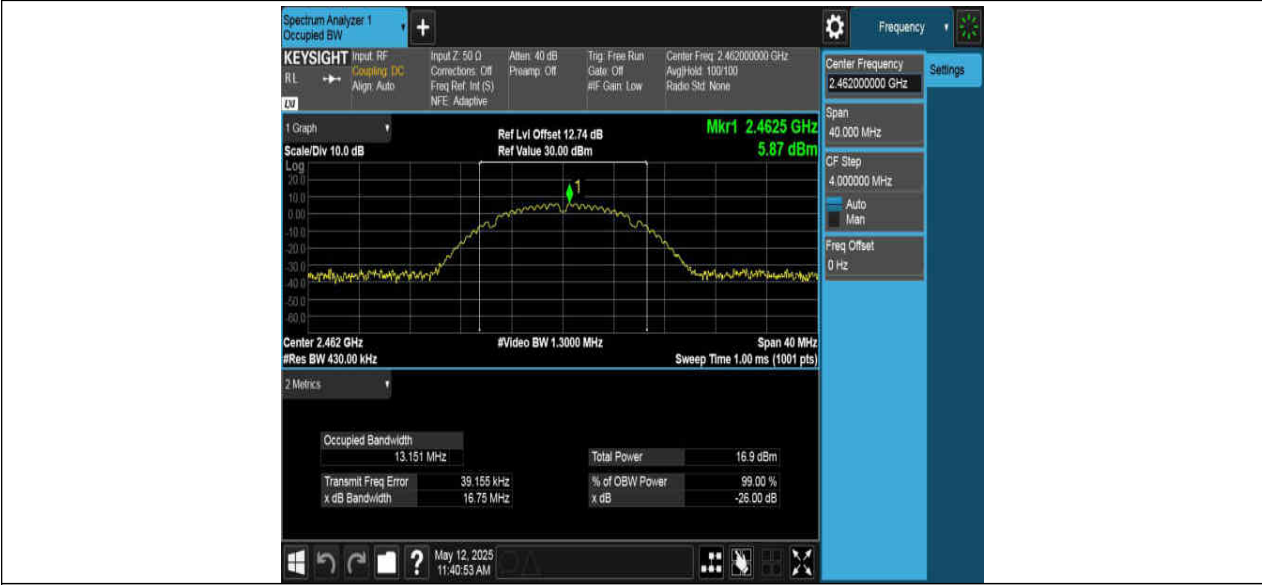
11B_Ant1_2412



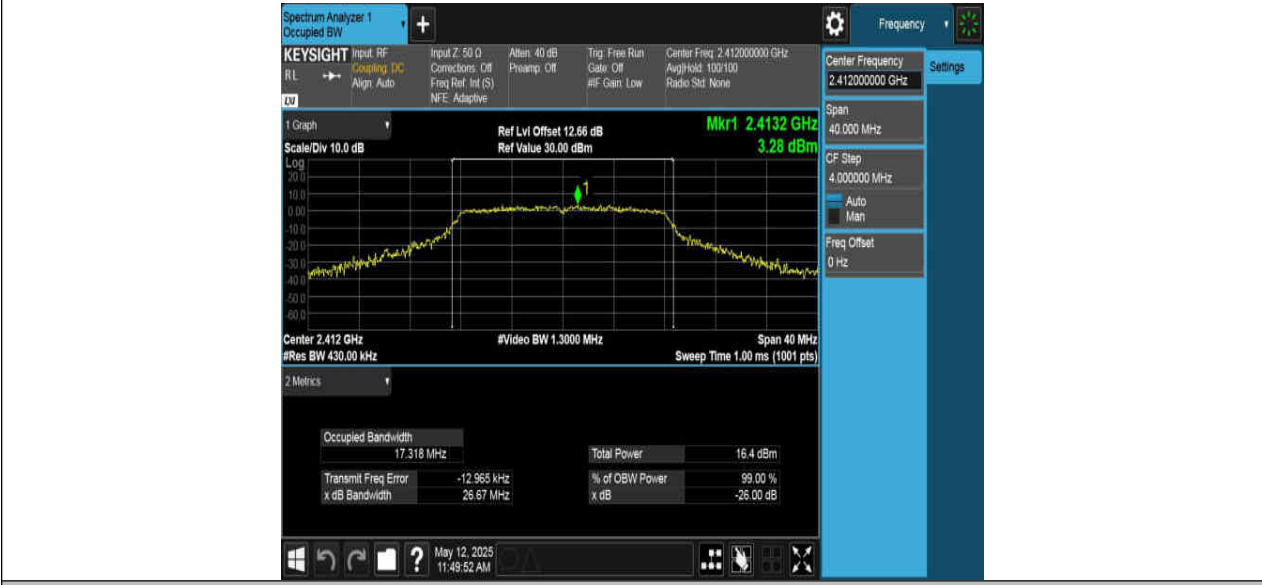
11B_Ant1_2437



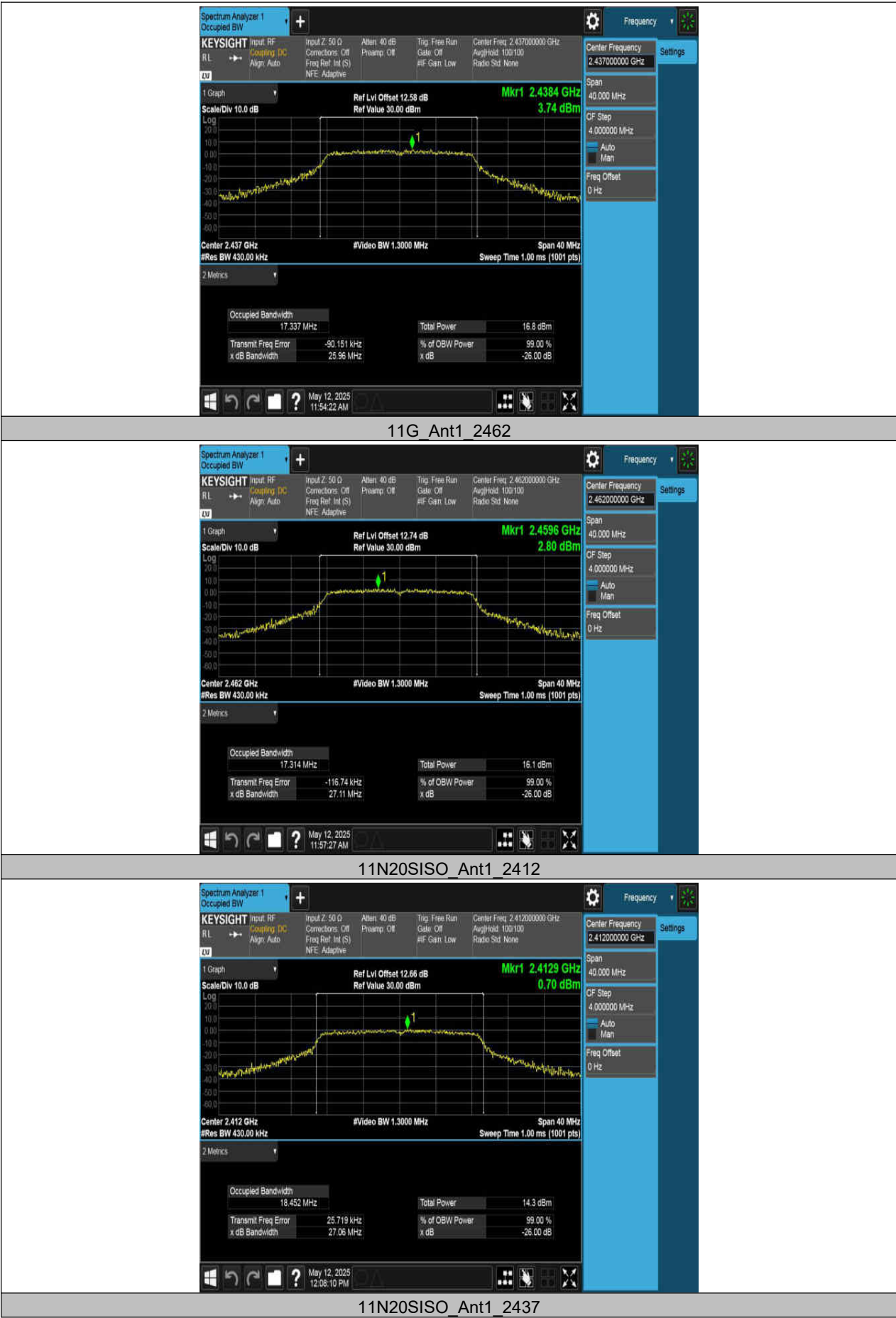
11B_Ant1_2462

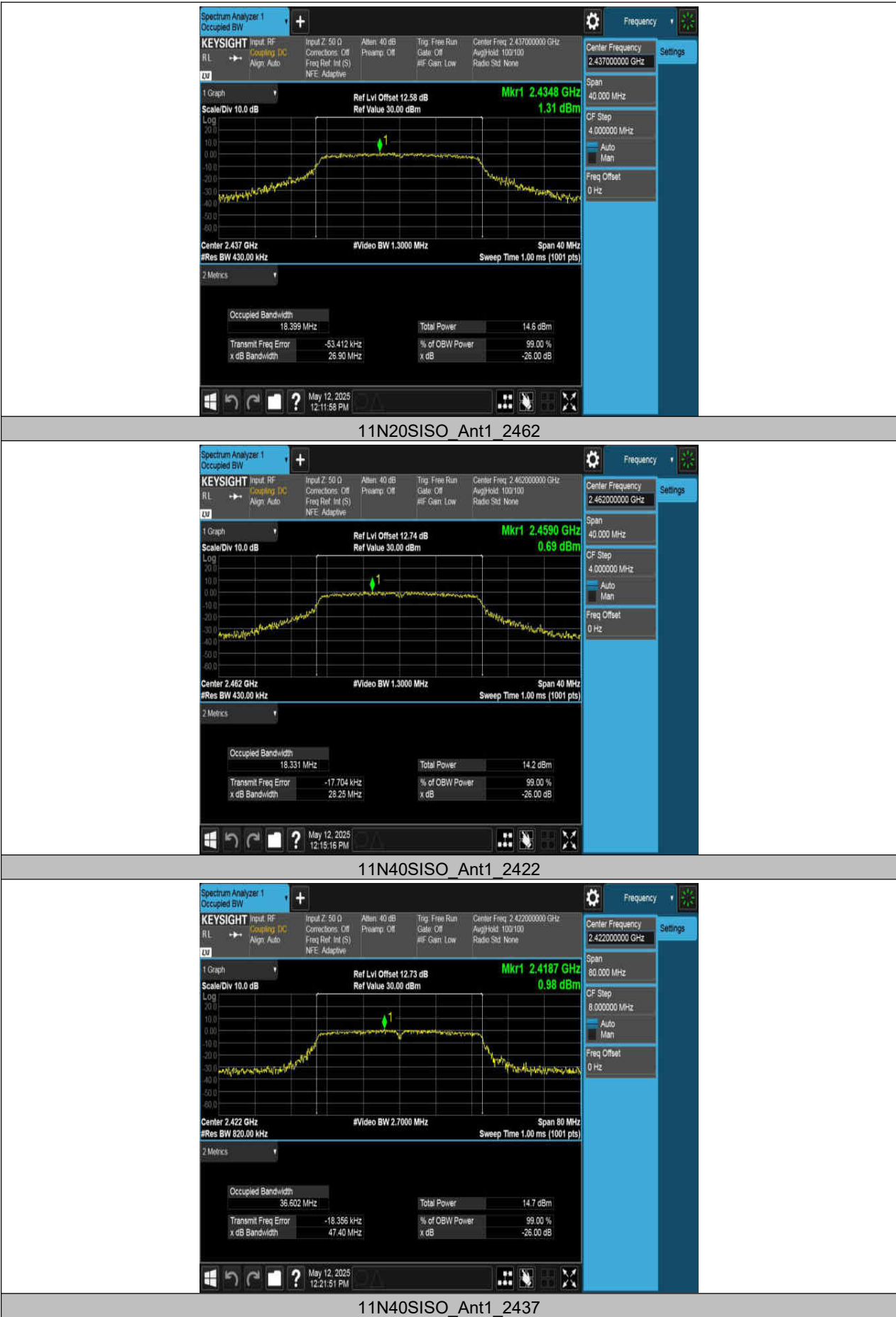


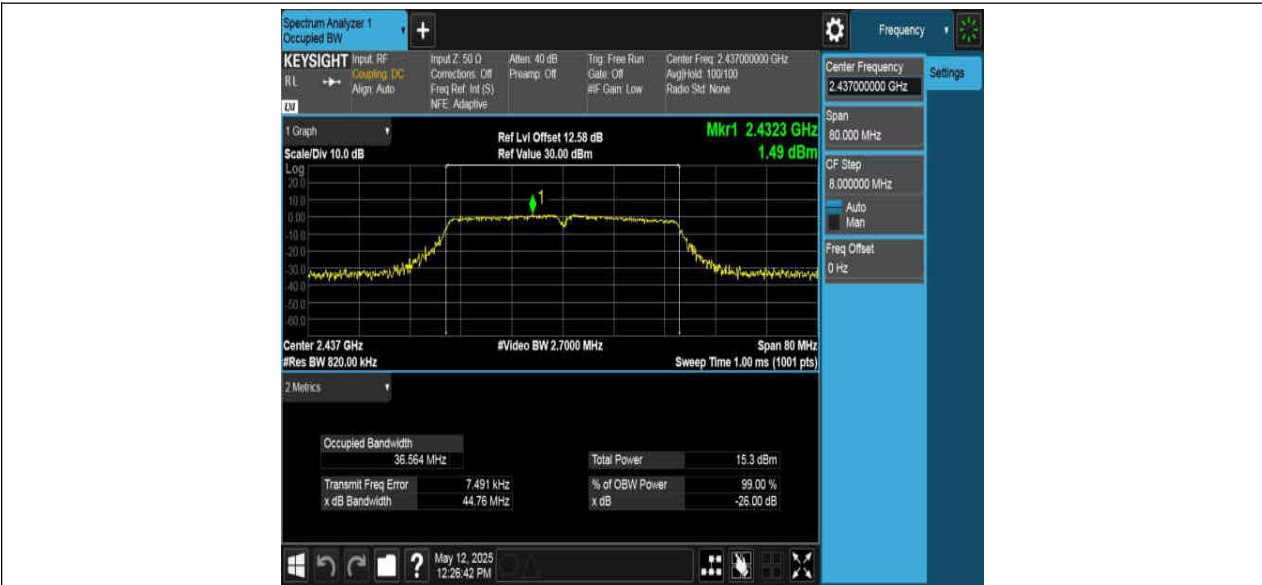
11G_Ant1_2412



11G_Ant1_2437



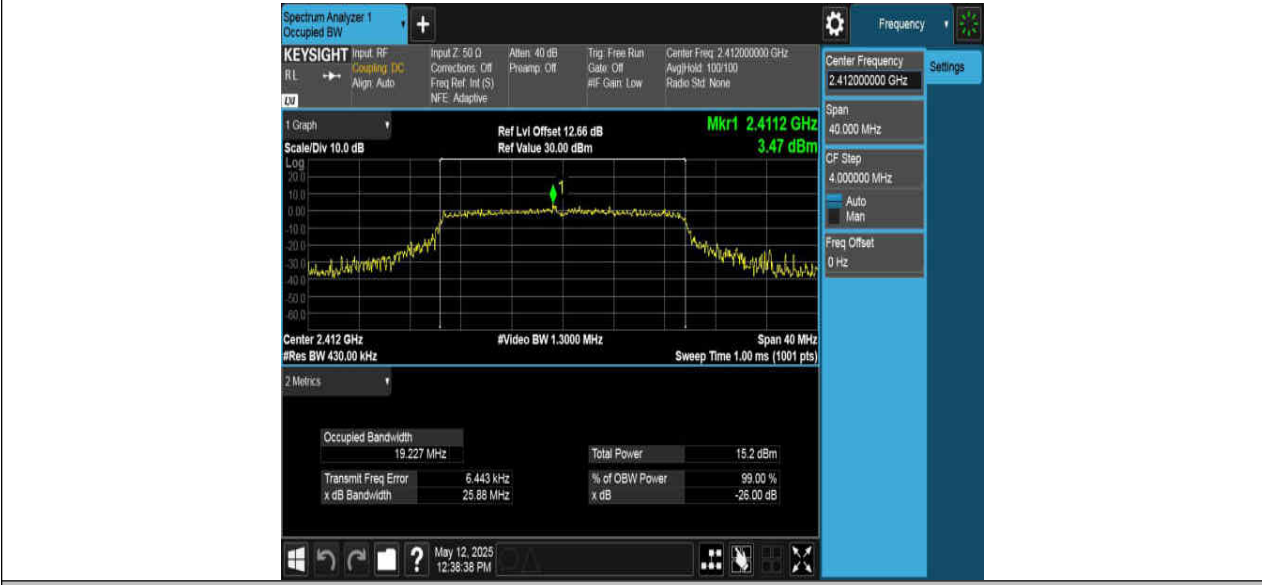




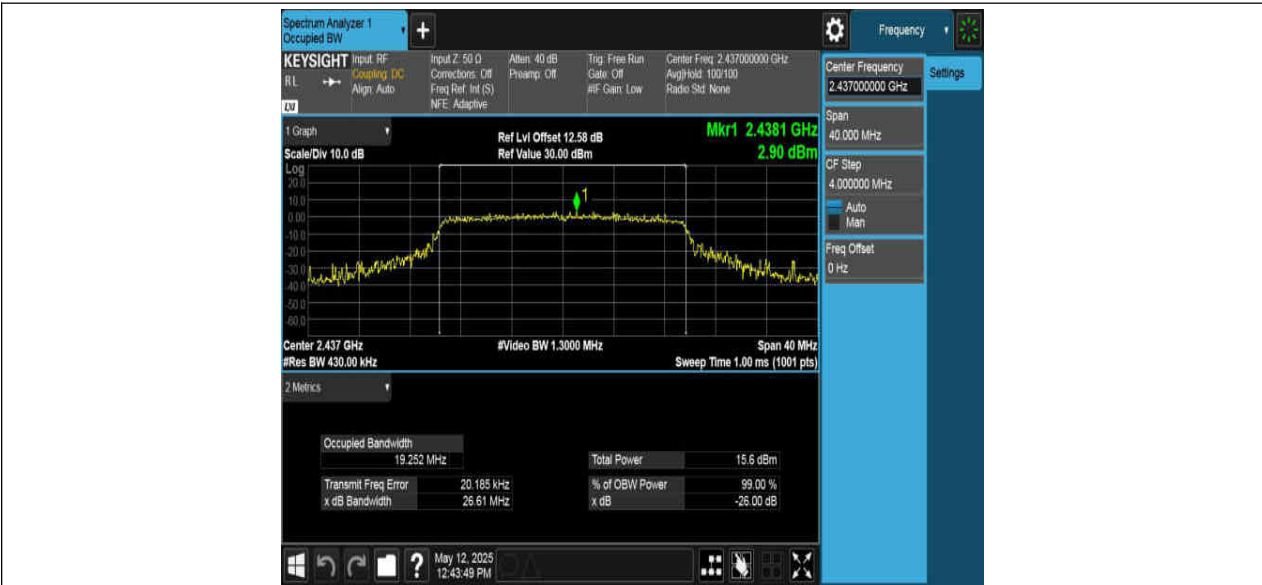
11N40SISO_Ant1_2452



11AX20SISO_Ant1_2412



11AX20SISO_Ant1_2437



11AX20SISO_Ant1_2462



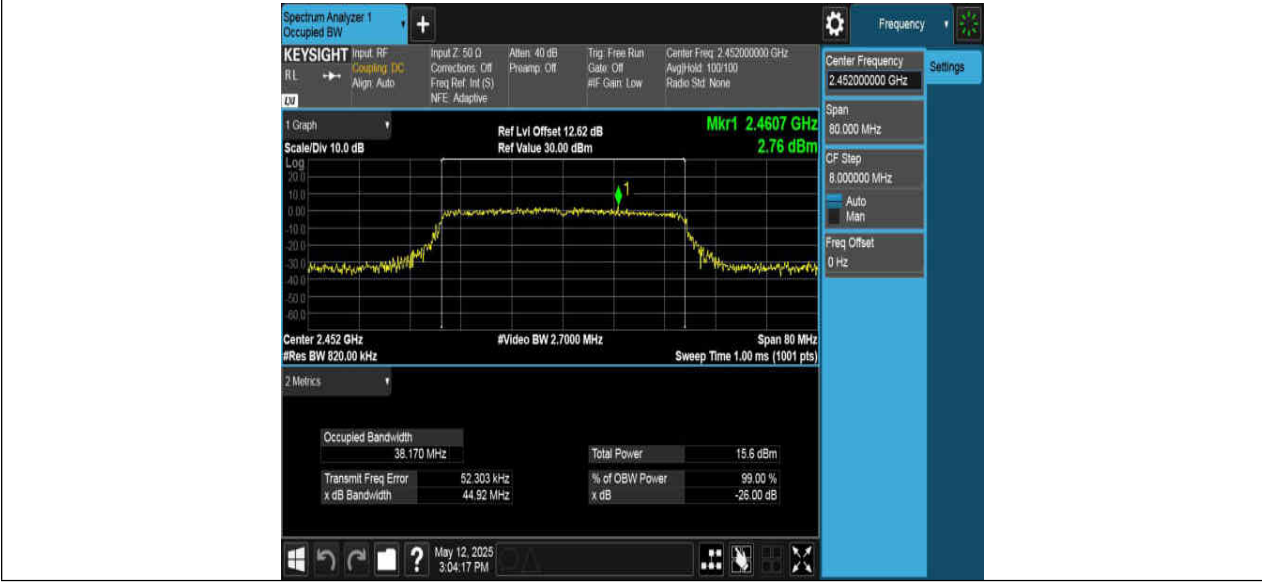
11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



11AX40SISO_Ant1_2452



10. Conducted Output Power

10.1. Block diagram of test setup

Same as section 8.1

10.2. Limits

CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 3			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC 15.247(b)(3) ISED RSS-247 5.4 (d)	Peak Output Power	1 watt or 30 dBm	2400-2483.5

10.3. Test Procedure

Place the EUT on the table and set it in the transmitting mode.

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the Power sensor.

Measure peak power each channel.

Peak Detector use for Peak result.

AVG Detector use for AVG result.

10.4. Results

Test Mode	Ant.	Freq. (MHz)	Peak Power (dBm)	Conducted Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Verdict
11B	Ant1	2412	17.70	≤30.00	21.28	≤36.00	PASS
		2437	17.40	≤30.00	20.98	≤36.00	PASS
		2462	16.47	≤30.00	20.05	≤36.00	PASS
11G	Ant1	2412	17.35	≤30.00	20.93	≤36.00	PASS
		2437	17.87	≤30.00	21.45	≤36.00	PASS
		2462	17.12	≤30.00	20.70	≤36.00	PASS
11N20SISO	Ant1	2412	15.45	≤30.00	19.03	≤36.00	PASS
		2437	15.85	≤30.00	19.43	≤36.00	PASS
		2462	14.99	≤30.00	18.57	≤36.00	PASS
11N40SISO	Ant1	2422	13.81	≤30.00	17.39	≤36.00	PASS
		2437	15.23	≤30.00	18.81	≤36.00	PASS
		2452	15.12	≤30.00	18.70	≤36.00	PASS
11AX20SISO	Ant1	2412	15.51	≤30.00	19.09	≤36.00	PASS
		2437	15.72	≤30.00	19.30	≤36.00	PASS
		2462	15.48	≤30.00	19.06	≤36.00	PASS
11AX40SISO	Ant1	2422	14.82	≤30.00	18.40	≤36.00	PASS
		2437	14.71	≤30.00	18.29	≤36.00	PASS
		2452	15.14	≤30.00	18.72	≤36.00	PASS

11. Power Spectral Density

11.1. Block diagram of test setup

Same as section 8.1

11.2. Limits

CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 3			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC §15.247 (e) ISED RSS-247 5.2 (b)	Power Spectral Density	8 dBm/3 kHz	2400-2483.5

11.3. Test Procedure

Connect the UUT to the spectrum analyzer and use the following settings:

Center Frequency	The centre frequency of the channel under test
Detector	Peak
RBW	$3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$
VBW	$\geq 3 \times \text{RBW}$
Span	1.5 x DTS bandwidth
Trace	Max hold
Sweep time	Auto couple.

Allow trace to fully stabilize and use the peak marker function to determine the maximum amplitude level within the RBW.

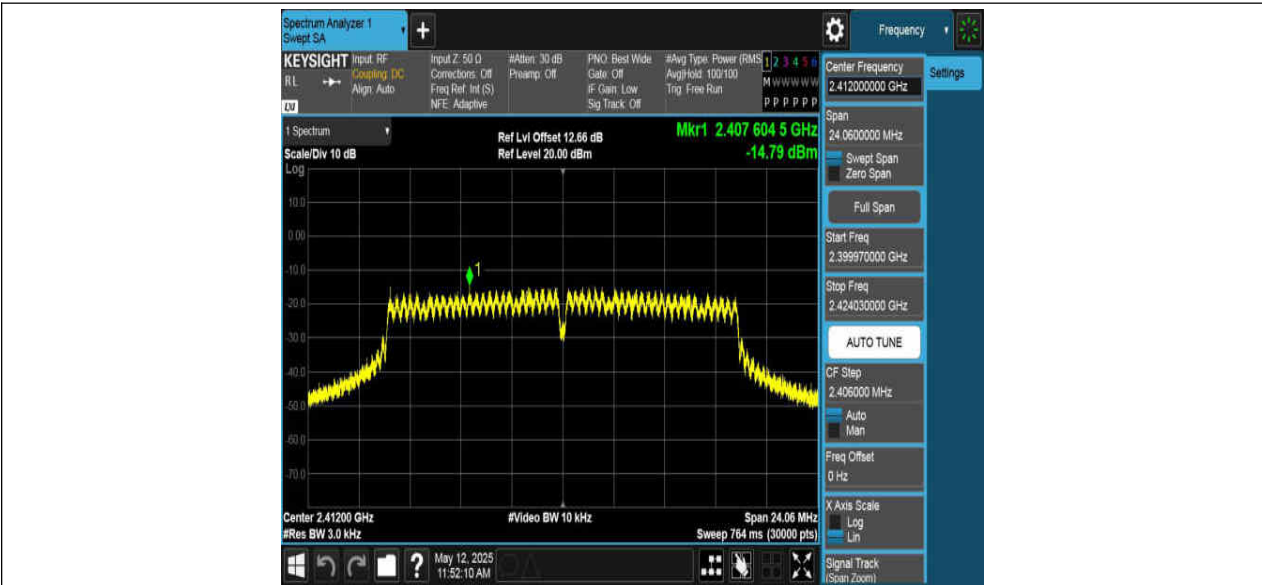
If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

11.4. Results

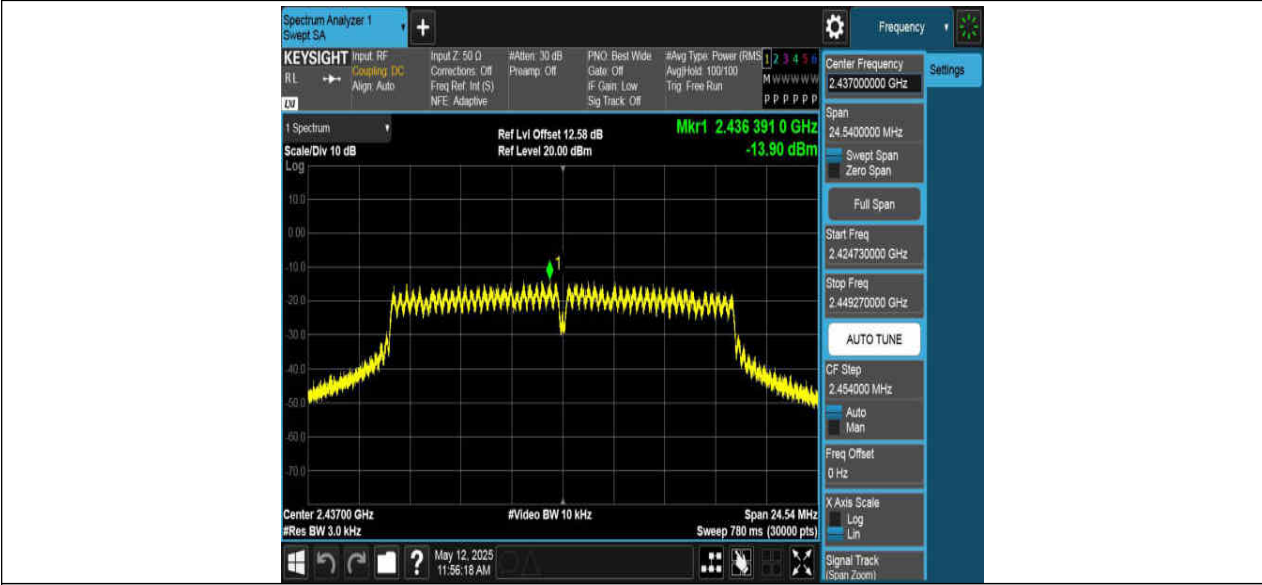
Test Mode	Ant.	Freq. (MHz)	Result (dBm/3-100kHz)	Limit (dBm/3kHz)	Verdict
11B	Ant1	2412	-6.84	≤ 8.00	PASS
		2437	-7.36	≤ 8.00	PASS
		2462	-8.12	≤ 8.00	PASS
11G	Ant1	2412	-14.79	≤ 8.00	PASS
		2437	-13.90	≤ 8.00	PASS
		2462	-14.38	≤ 8.00	PASS
11N20SISO	Ant1	2412	-15.28	≤ 8.00	PASS
		2437	-15.64	≤ 8.00	PASS
		2462	-16.35	≤ 8.00	PASS
11N40SISO	Ant1	2422	-19.09	≤ 8.00	PASS
		2437	-18.75	≤ 8.00	PASS
		2452	-19.28	≤ 8.00	PASS
11AX20SISO	Ant1	2412	-16.65	≤ 8.00	PASS
		2437	-16.52	≤ 8.00	PASS
		2462	-16.99	≤ 8.00	PASS
11AX40SISO	Ant1	2422	-19.90	≤ 8.00	PASS
		2437	-19.25	≤ 8.00	PASS
		2452	-20.49	≤ 8.00	PASS

11.5. Original test data

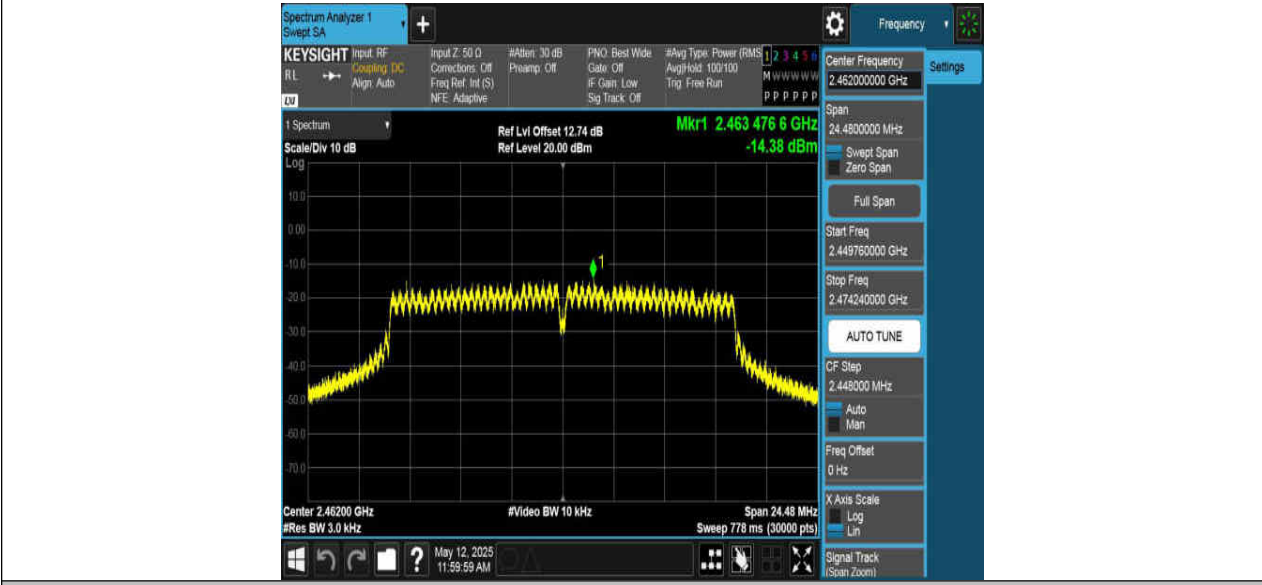




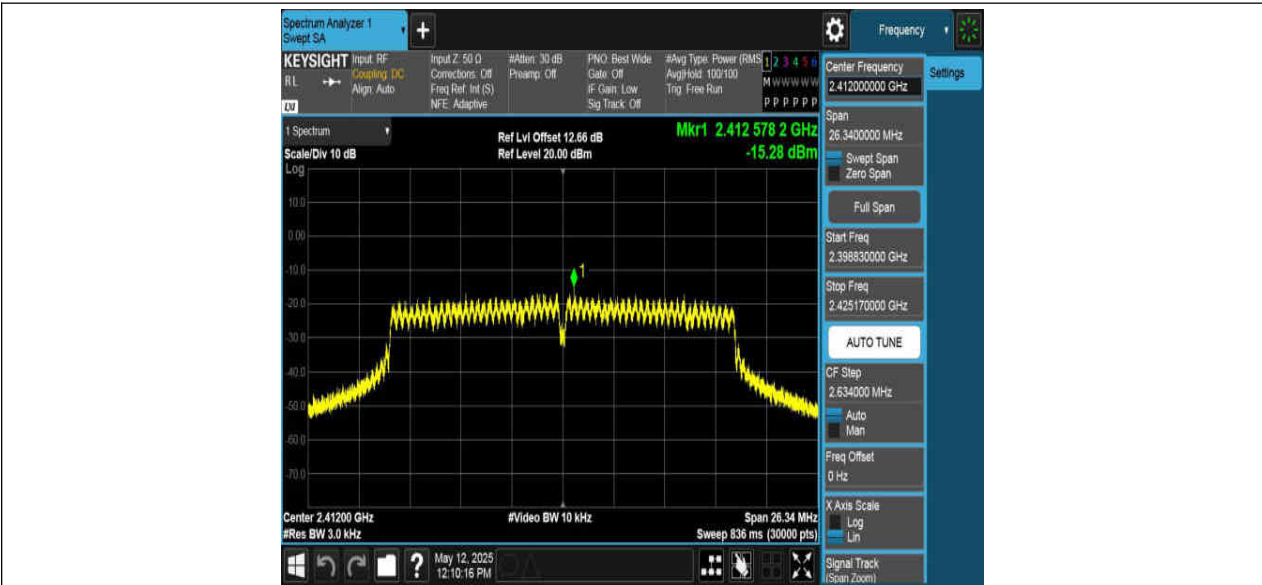
11G_Ant1_2437



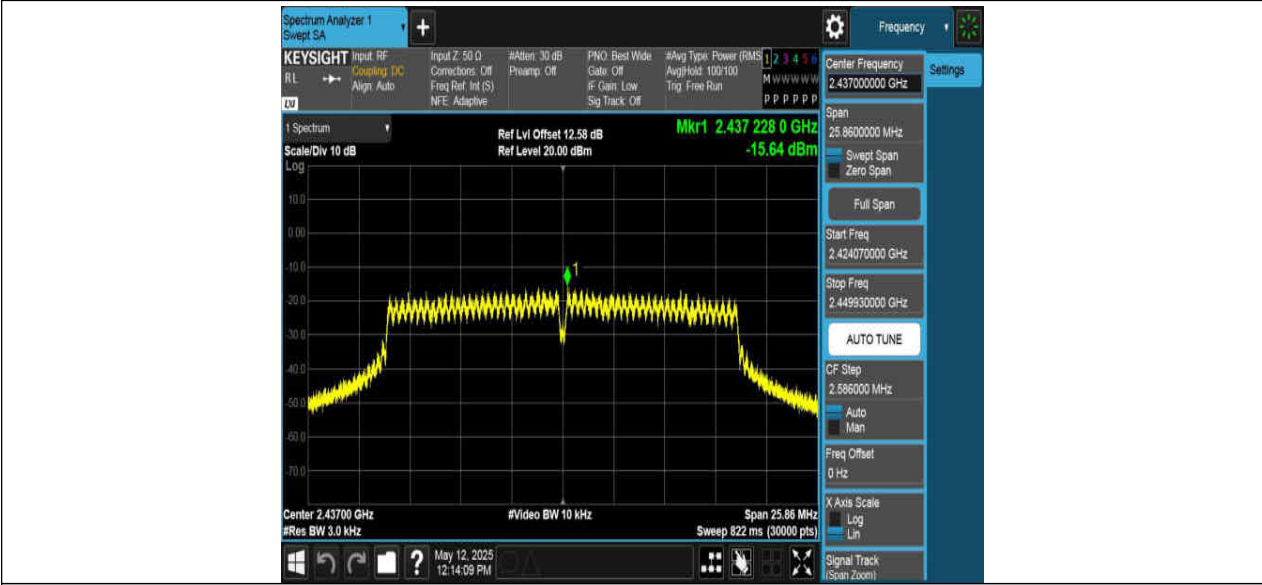
11G_Ant1_2462



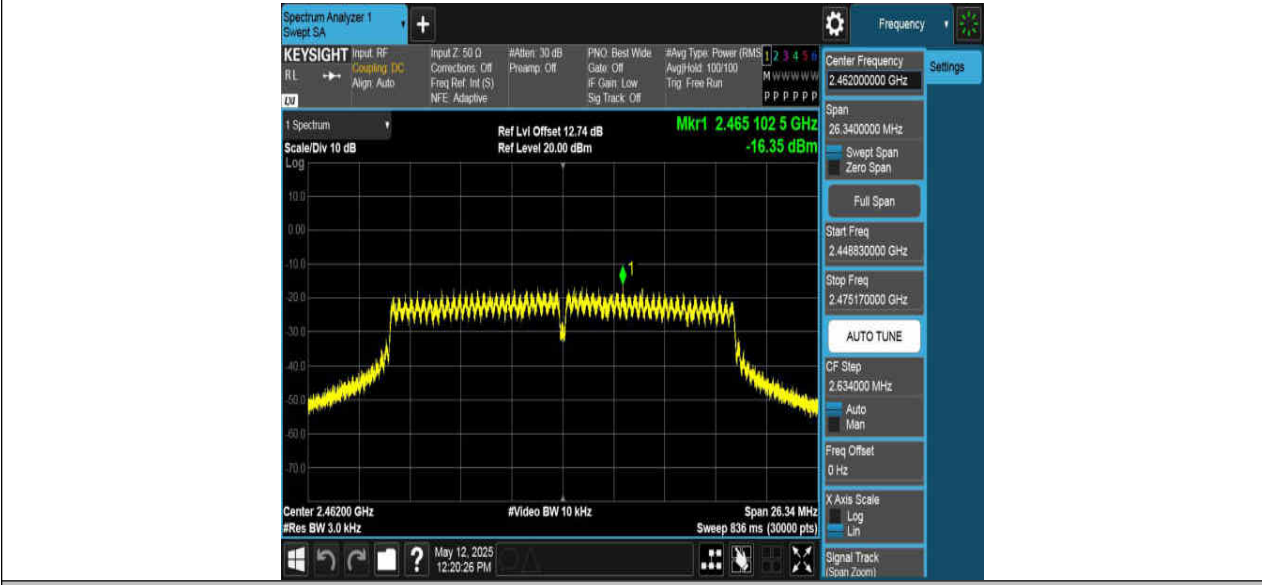
11N20SISO_Ant1_2412



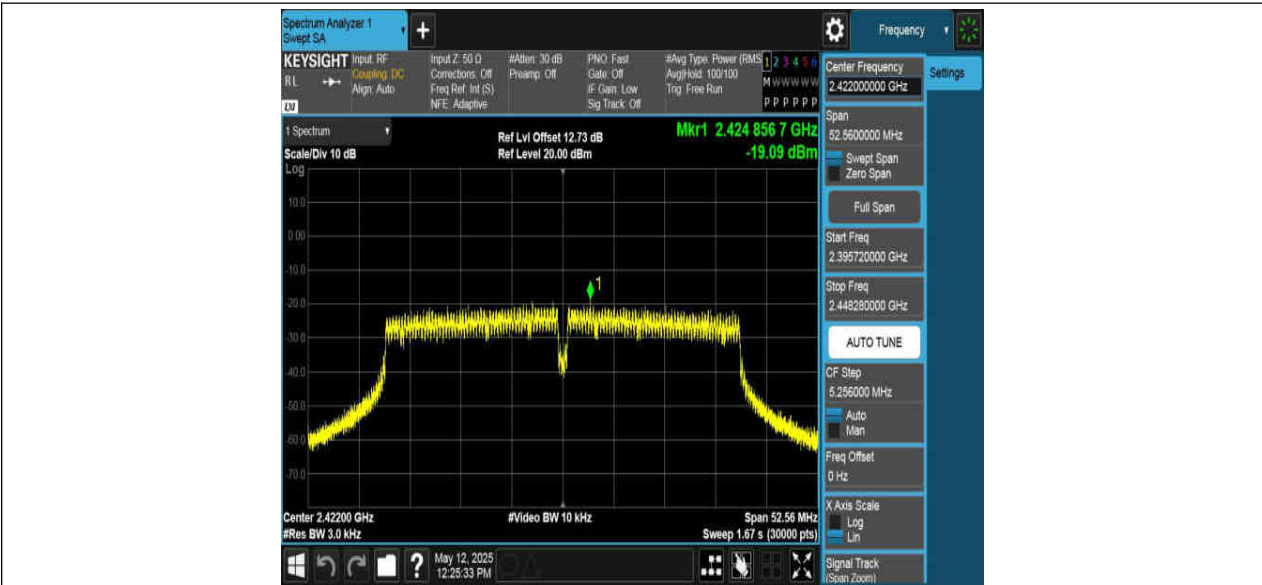
11N20SISO_Ant1_2437



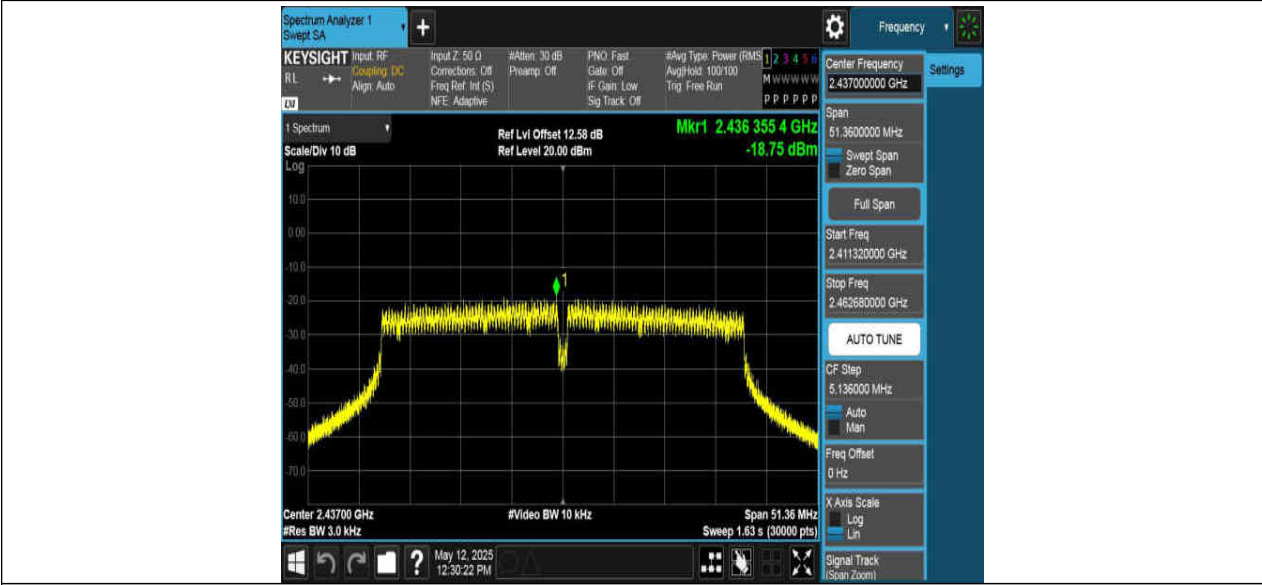
11N20SISO_Ant1_2462



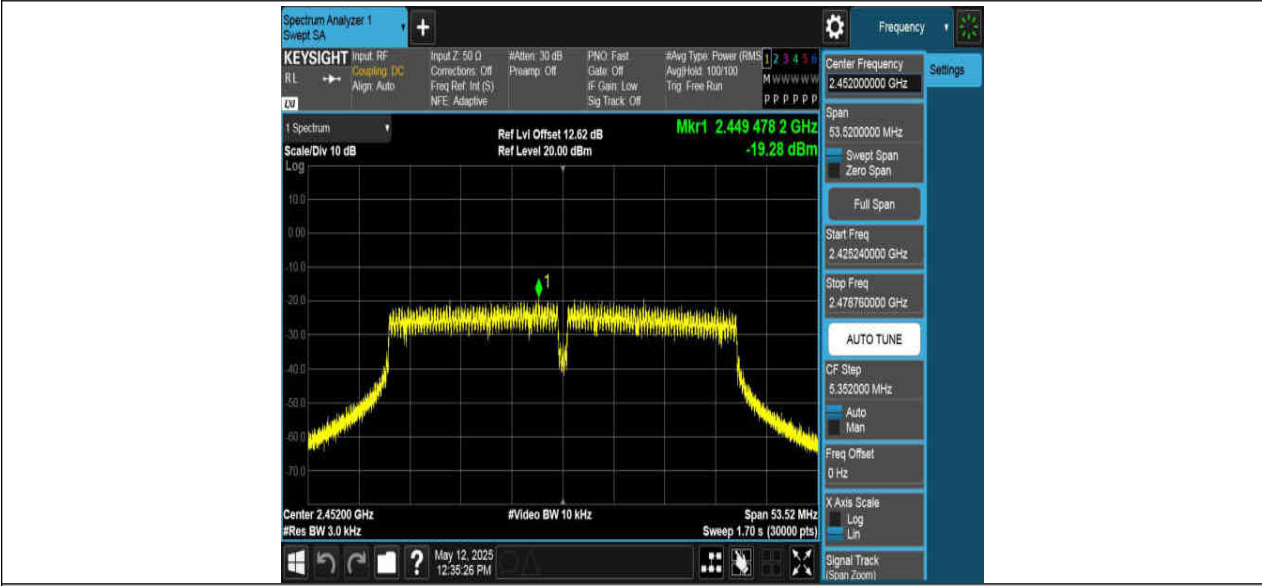
11N40SISO_Ant1_2422



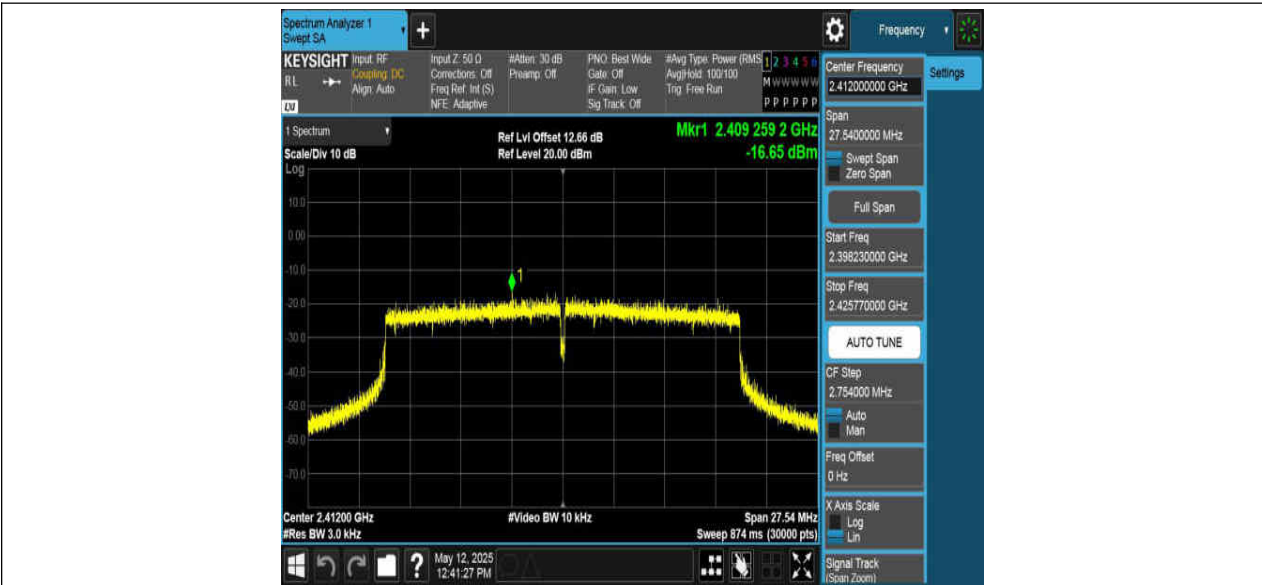
11N40SISO_Ant1_2437



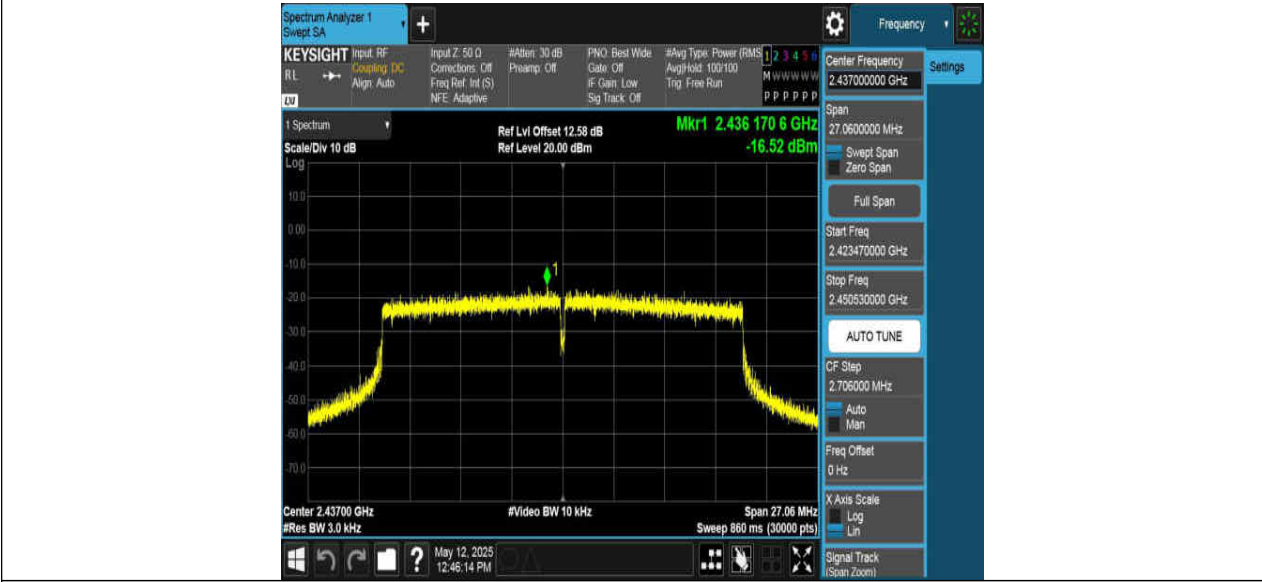
11N40SISO_Ant1_2452



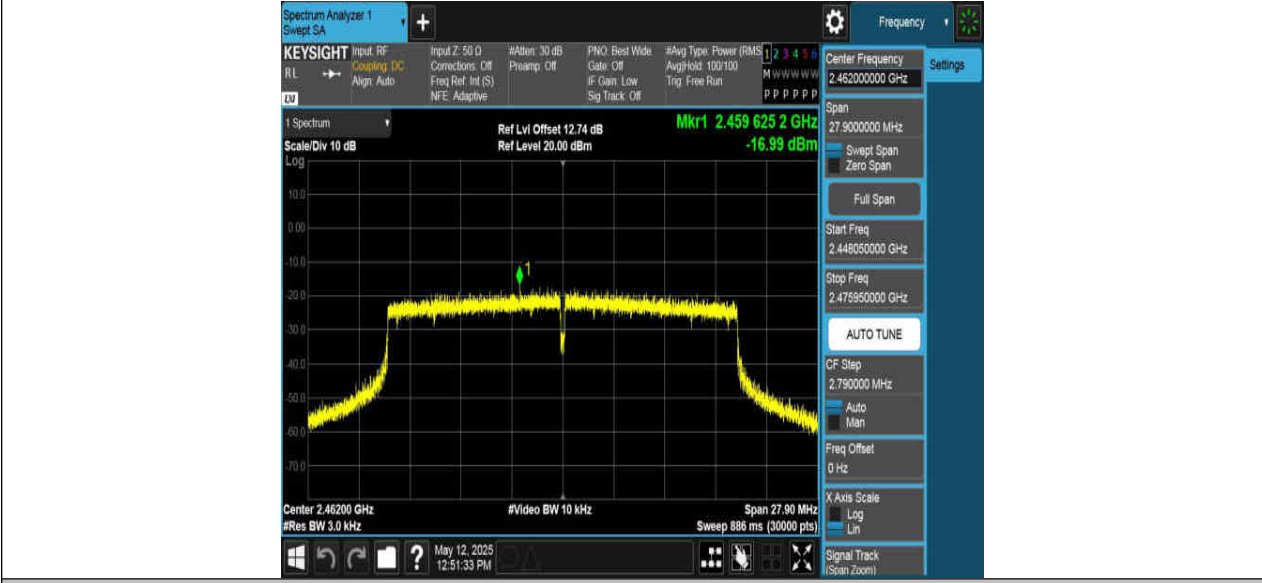
11AX20SISO_Ant1_2412



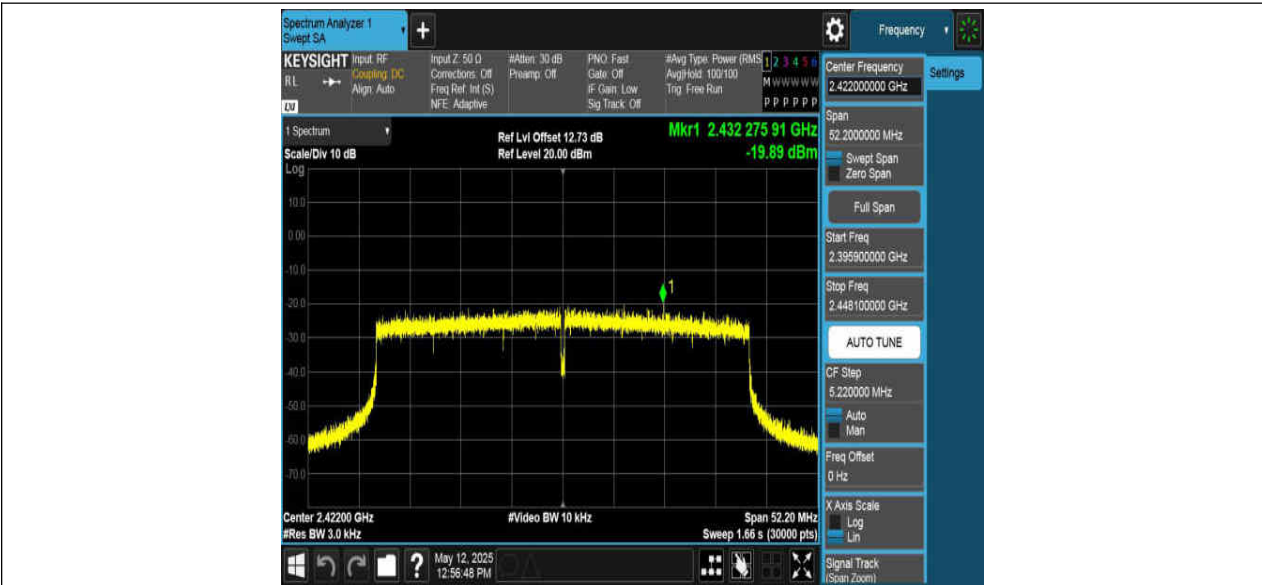
11AX20SISO_Ant1_2437



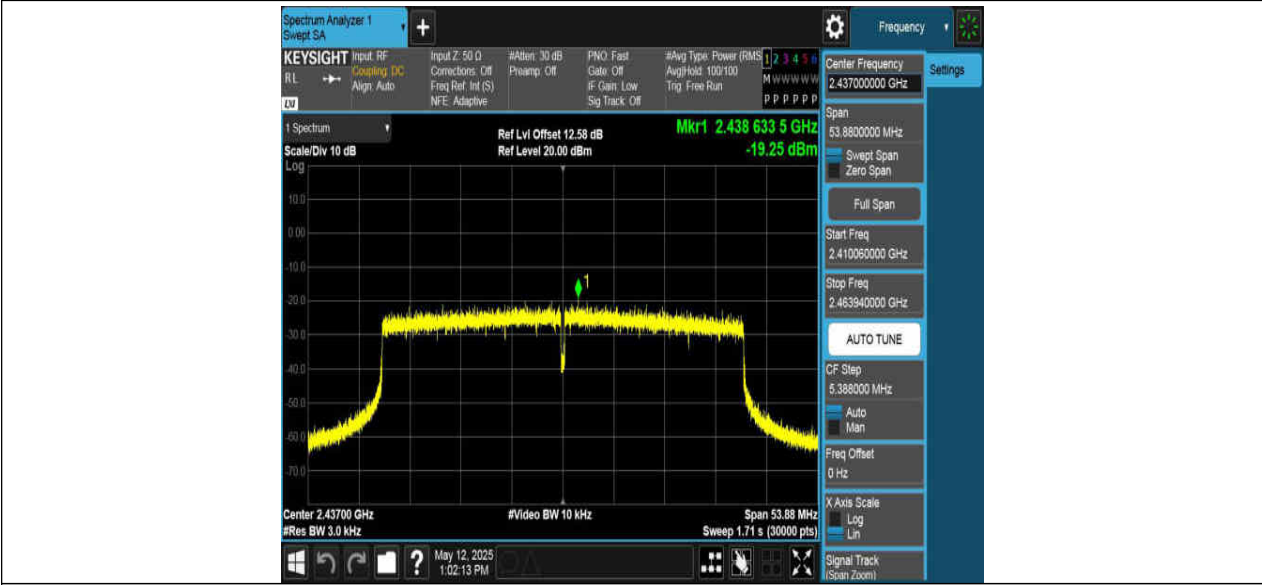
11AX20SISO_Ant1_2462



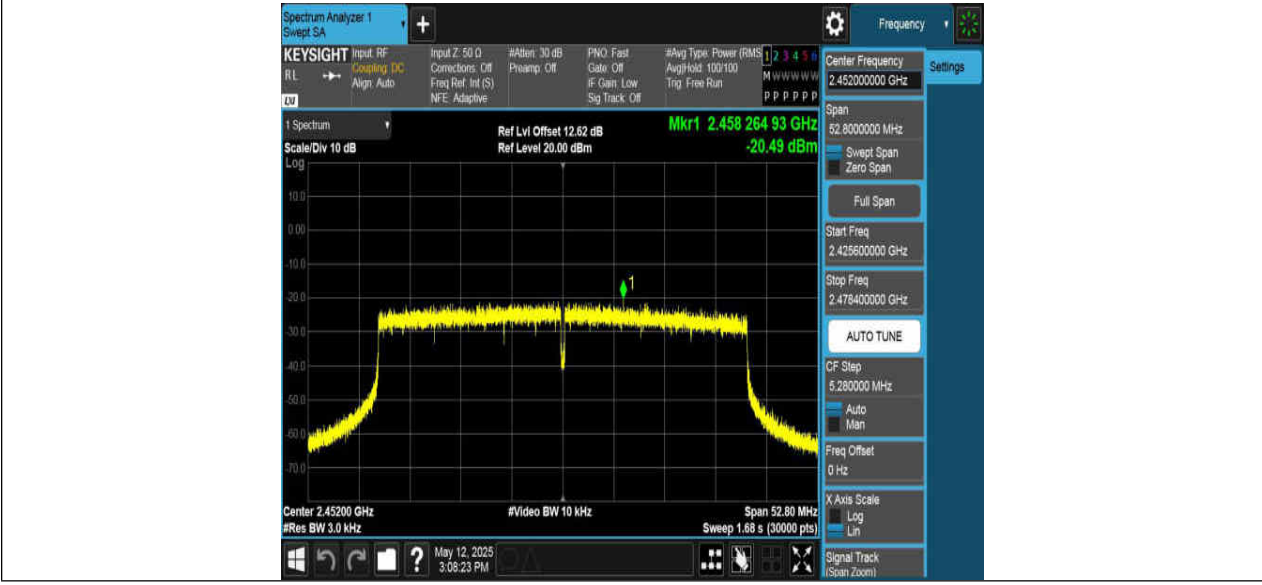
11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



11AX40SISO_Ant1_2452



12. Conducted Band edge and Spurious Emissions

12.1. Block diagram of test setup

Same as section 8.1

12.2. Limits

CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 3		
Section	Test Item	Limit
CFR 47 FCC §15.247 (d) ISED RSS-247 5.5	Conducted Bandedge and Spurious Emissions	at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power

12.3. Test Procedure

Center Frequency	The centre frequency of the channel under test
Detector	Peak
RBW	100 kHz
VBW	$\geq 3 \times \text{RBW}$
Span	1.5 x DTS bandwidth
Trace	Max hold
Sweep time	Auto couple.

Connect the UUT to the spectrum analyzer and use the following settings:

Use the peak marker function to determine the maximum PSD level.

Span	Set the center frequency and span to encompass frequency range to be measured
Detector	Peak
RBW	100 kHz
VBW	$\geq 3 \times \text{RBW}$
measurement points	$\geq \text{span}/\text{RBW}$
Trace	Max hold
Sweep time	Auto couple.

Use the peak marker function to determine the maximum amplitude level.

12.4. Test result

Test Mode	Ant.	Ch Name	Freq. (MHz)	Ref Level (dBm)	Result (dBm)	Limit (dBm)	Verdict
11B	Ant1	Low	2412	6.85	-43.94	≤ -13.15	PASS
		High	2462	5.88	-47.64	≤ -14.12	PASS
11G	Ant1	Low	2412	-1.50	-31.29	≤ -21.5	PASS
		High	2462	-1.81	-46.87	≤ -21.81	PASS
11N20SISO	Ant1	Low	2412	-2.75	-32.73	≤ -22.75	PASS
		High	2462	-3.85	-47.21	≤ -23.85	PASS
11N40SISO	Ant1	Low	2422	-5.96	-37.3	≤ -25.96	PASS
		High	2452	-5.61	-47.66	≤ -25.61	PASS
11AX20SISO	Ant1	Low	2412	-3.04	-32.93	≤ -23.04	PASS
		High	2462	-3.06	-47.44	≤ -23.06	PASS
11AX40SISO	Ant1	Low	2422	-6.00	-36.36	≤ -26	PASS

		High	2452	-5.40	-47.65	≤-25.4	PASS
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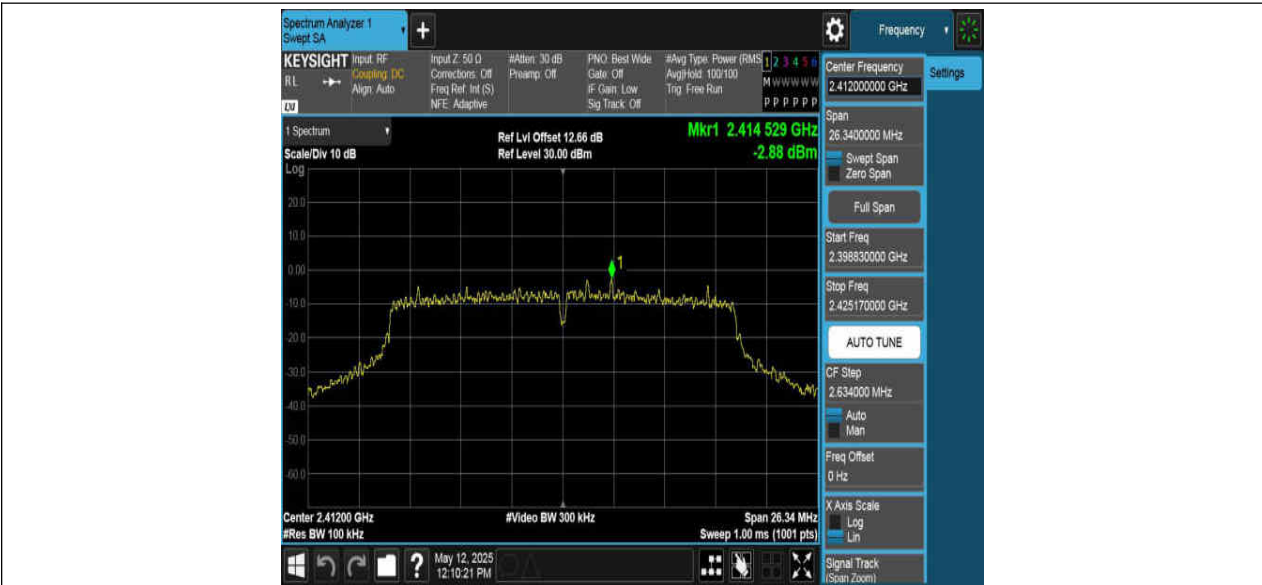
Test Mode	Ant.	Freq. (MHz)	Freq Range (Mhz)	Ref Level (dBm)	Result (dBm)	Limit (dBm)	Verdict
11B	Ant1	2412	30~1000	5.66	-54.38	≤-14.34	PASS
			1000~26500	5.66	-43.49	≤-14.34	PASS
		2437	30~1000	5.96	-55.12	≤-14.04	PASS
			1000~26500	5.96	-41.54	≤-14.04	PASS
		2462	30~1000	5.27	-55.65	≤-14.73	PASS
			1000~26500	5.27	-39.69	≤-14.73	PASS
11G	Ant1	2412	30~1000	-0.82	-60.95	≤-20.82	PASS
			1000~26500	-0.82	-49.91	≤-20.82	PASS
		2437	30~1000	-0.98	-60.14	≤-20.98	PASS
			1000~26500	-0.98	-48.85	≤-20.98	PASS
		2462	30~1000	-0.86	-59.87	≤-20.86	PASS
			1000~26500	-0.86	-47.53	≤-20.86	PASS
11N20SISO	Ant1	2412	30~1000	-2.88	-60.16	≤-22.88	PASS
			1000~26500	-2.88	-50.33	≤-22.88	PASS
		2437	30~1000	-3.50	-59.67	≤-23.5	PASS
			1000~26500	-3.50	-48.9	≤-23.5	PASS
		2462	30~1000	-3.59	-61.07	≤-23.59	PASS
			1000~26500	-3.59	-49	≤-23.59	PASS
11N40SISO	Ant1	2422	30~1000	-5.35	-60.53	≤-25.35	PASS
			1000~26500	-5.35	-50.82	≤-25.35	PASS
		2437	30~1000	-5.58	-60	≤-25.58	PASS
			1000~26500	-5.58	-49.17	≤-25.58	PASS
		2452	30~1000	-5.38	-60.88	≤-25.38	PASS
			1000~26500	-5.38	-48.5	≤-25.38	PASS
11AX20SISO	Ant1	2412	30~1000	-2.69	-60.34	≤-22.69	PASS
			1000~26500	-2.69	-50.32	≤-22.69	PASS
		2437	30~1000	-2.88	-61.18	≤-22.88	PASS
			1000~26500	-2.88	-48.08	≤-22.88	PASS
		2462	30~1000	-3.18	-61	≤-23.18	PASS
			1000~26500	-3.18	-48.88	≤-23.18	PASS
11AX40SISO	Ant1	2422	30~1000	-5.75	-59.92	≤-25.75	PASS
			1000~26500	-5.75	-51.1	≤-25.75	PASS
		2437	30~1000	-5.52	-60.8	≤-25.52	PASS
			1000~26500	-5.52	-51.59	≤-25.52	PASS
		2452	30~1000	-6.03	-60.8	≤-26.03	PASS
			1000~26500	-6.03	-49.07	≤-26.03	PASS

12.5. Original test data

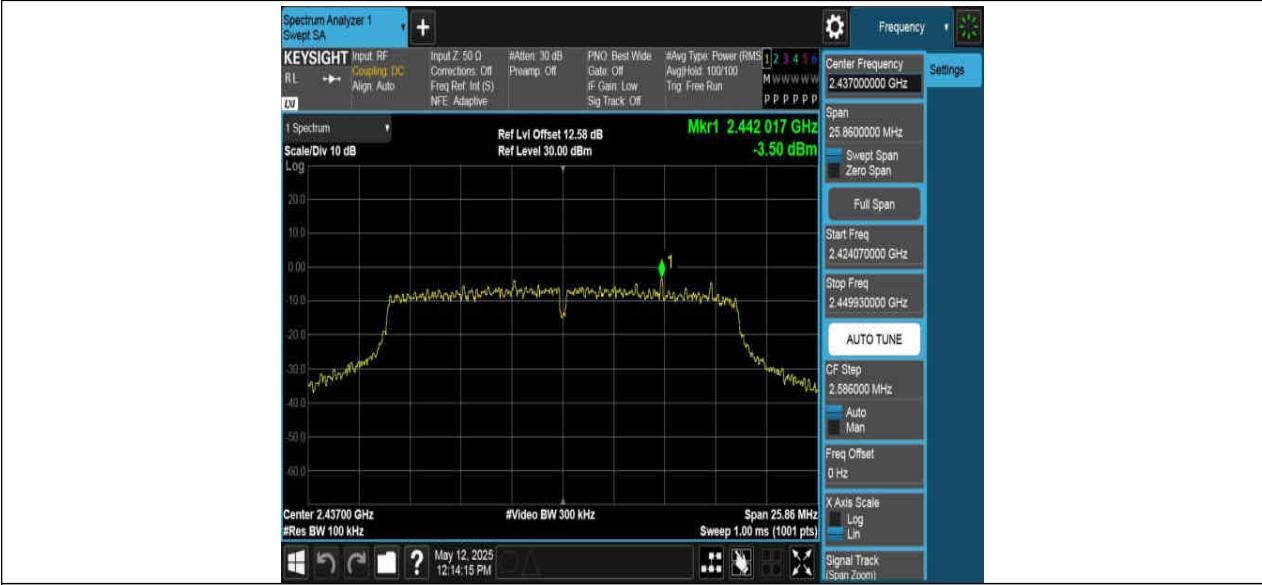
Reference level



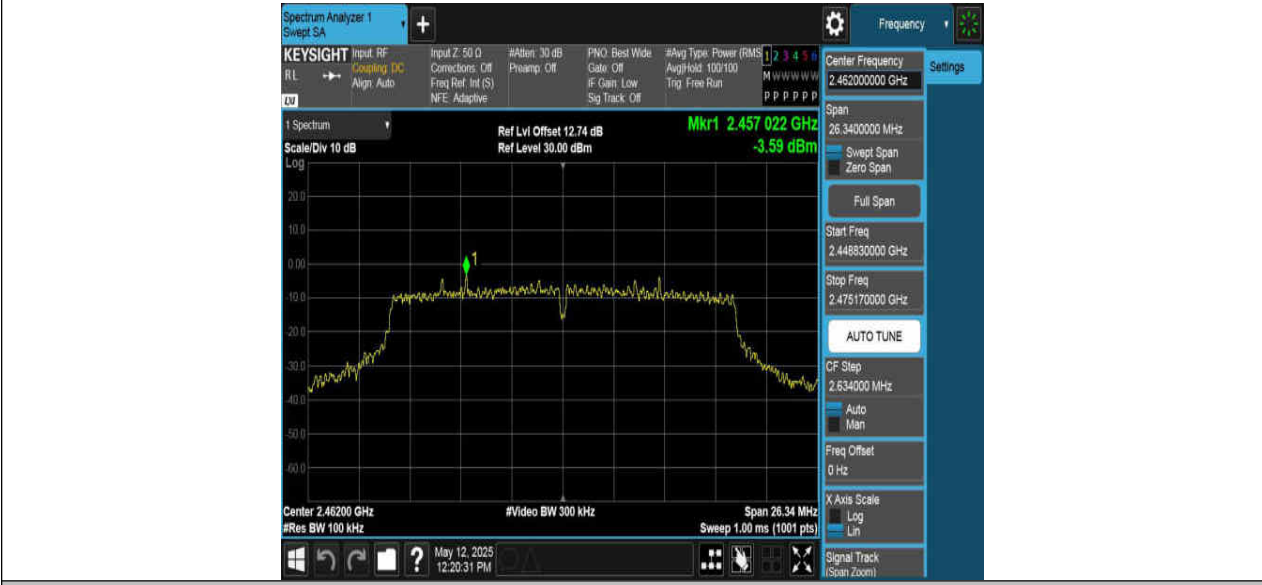




11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



11N40SISO_Ant1_2422