

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



EUT Description: ClickShare
Applicant: Barco NV
President Kennedypark 35 8500 Kortrijk Belgium
Manufacturer: Barco NV
President Kennedypark 35 8500 Kortrijk Belgium
Brand Name: Barco
Model No. CSBTN005
Report Number: TERF2605001737ER
FCC ID 2AAED-CSBTN005
Date of EUT Received: May 15, 2026
Date of Test: May 15, 2026 ~ May 20, 2026
Issue Date: July 17, 2026

CHUN-CHIEH, CHEN

Approved By

Chun Chieh Chen

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 and the energy emitted by the sample EUT comply with FCC rule part §15.247.

The results of this report relate only to the sample identified in this report.

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f (886-2) 2298-0488

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2605001737ER	00	Original	June 16, 2026	Sharon Cheng	
TERF2605001737ER	01	FVIN Modification	July 17, 2026	Sharon Cheng	*

Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.

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1 GENERAL INFORMATION

1.1 Equipment Under Test (EUT)

EUT Description	ClickShare
Brand Name	Barco
Model No.	CSBTN005
Hardware Version	Barco_Furitesse_DVT2_PLS0000000061_20250214_1
Firmware Version	5.15.47-mtk+g-usi-v2.7-d011e19cfc68
EUT Series No.	1200602574, 1200602587
Power Supply	5 Vdc from USB port
Test Software (Name/Version)	default (myftm command)

1.2 RF Specification

WLAN 2.4GHz

Mode	Frequency Range	Channels	Rated Power (dBm)		Modulation Technology
			Peak	Avg.	
802.11b	2412~2472	13	20.85	17.98	DSSS
802.11g	2412~2472	13	25.91	17.96	OFDM
802.11n_HT20	2412~2472	13	25.13	17.95	OFDM
802.11n_HT40	2422~2462	9	23.35	14.86	OFDM
802.11ax_HE20	2412~2472	13	25.33	17.93	OFDMA
802.11ax_HE40	2422~2462	9	22.07	14.49	OFDMA
Modulation type:		CCK,DQPSK, DBPSK for DSSS in 802.11b			
		64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11g,11n			
		1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA in 802.11ax			
Data Rate:		802.11b: 1/2/5.5/11 Mbps			
		802.11g: 6/9/12/18/24/36/48/54 Mbps			
		802.11n_HT20:up to 144.4Mbps			
		802.11n_HT40:up to 300Mbps			
		802.11ax_HE20:up to 286.8Mbps			
		802.11ax_HE40:up to 573.6Mbps			

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1.3 Antenna Designation

Antenna Type	Supplier	Antenna No.	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)
PIFA	USI	ANT 1	US5990-12-002-C	2412-2472	2.45
		ANT 2	US5990-12-001-C	2412-2472	1.94

Note:

1. Pre-scanned was done on the above antennas, measurements were demonstrated by using the antenna with the highest gain as the worst case scenarios.
2. The antenna information is provided by the applicant. The laboratory does not verify the accuracy of this information, and all test results related to antenna characteristics are based solely on the data supplied. Responsibility for the authenticity and accuracy of these specifications rests entirely with the party who provided the information.
3. The antenna complies with part 15.203 requirement and no consideration of replacement. Please see EUT photo for details.
4. The directional gain is calculated according to section F. 2). e). (ii) of FCC KDB 662911 D01.

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1.4 Operating Frequencies

2400~2483.5 MHz			
20MHz		40MHz	
CH	Freq. (MHz)	CH	Freq. (MHz)
1	2412	3	2422
2	2417	4	2427
3	2422	5	2432
4	2427	6	2437
5	2432	7	2442
6	2437	8	2447
7	2442	9	2452
8	2447	10	2457
9	2452	11	2462
10	2457		
11	2462		
12	2467		
13	2472		

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1.5 EUT Availability and The Worst Test Modes

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
3. The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.
4. Investigation has been done on all the possible configurations for searching the worst case.

Mode		Transmission Chain						Single Transmission Spatial	Multi Transmission Spatial
V	802.11 b	V	Ch0	V	Ch1		Ch2	1TX	V 2TX
V	802.11 g	V	Ch0	V	Ch1		Ch2	1TX	V 2TX
V	802.11 n	V	Ch0	V	Ch1		Ch2	1TX	V 2TX
	802.11 ac		Ch0		Ch1		Ch2	1TX	2TX
V	802.11 ax	V	Ch0	V	Ch1		Ch2	1TX	V 2TX
	802.11 be		Ch0		Ch1		Ch2	1TX	2TX

5. Therefore, below summary is the modes of test configuration that yield the highest reading and generate the highest emission chosen to carry out the relevantly mandatory test items.

CONDUCTED TEST					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 13	12,13	DSSS	1	2Tx
802.11g	1 to 13	12,13	OFDM	6	2Tx
802.11n_HT20	1 to 13	12,13	OFDM	MCS0	2Tx
802.11n_HT40	3 to 11	10,11	OFDM	MCS0	2Tx

CONDUCTED TEST						
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	RU CONFIGURATION	DATA RATE (Mbps)	ANTENNA PORT
802.11ax_HE20	1 to 11	12,13	OFDMA	FULL RU 26/8, 52/40, 106/54	MCS0	2Tx
802.11ax_HE40	3 to 9	10,11	OFDMA	FULL RU 242/62	MCS0	2Tx

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TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11g	1 to 13	12	OFDM	6	2Tx

TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 13	12,13	DSSS	1	2Tx
802.11g	1 to 13	12,13	OFDM	6	2Tx
802.11n20	1 to 13	12,13	OFDM	MCS0	2Tx
802.11n40	3 to 11	10,11	OFDM	MCS0	2Tx
802.11ax20	1 to 13	12,13	OFDMA	MCS0	2Tx
802.11ax40	3 to 11	10,11	OFDMA	MCS0	2Tx

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2 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result	Note
§15.247(b) (3)	Peak Output Power	Compliant	
§15.247(a)(2)	Emission Bandwidth	Compliant	
§15.205 §15.209 §15.247(d)	Out of Band Emission	Compliant	
§15.205 §15.209 §15.247(d)	Unwanted Emission	Compliant	
§15.247(e)	Power Spectral Density	Compliant	
§15.203	Antenna Requirement	Compliant	

Note

1. N/S Indicates whether item(s) being newly tested [N] or spot checked [S].
2. Items other than newly tested [N] are leveraged from test report TERF2605001739ER.

2.1 Test Methodology of Applied Standards

1. ANSI C63.10:2020
2. FCC Part 15, Subpart C §15.247
3. FCC KDB 558074 D01 15.247 Meas Guidance v05r02
4. FCC KDB 662911 D01 Multiple Transmitter Output v02r01

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2.2 Measurement Uncertainty

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 1.61 dB
Output Power measurement	+/- 0.97 dB
Emission Bandwidth	+/- 1.38 Hz
Conducted emission measurement	+/- 0.77 dB
Peak Power Density	+/- 0.61 dB
Temperature	+/- 0.60 °C
Humidity	+/- 3.00 %
DC / AC Power Source	+/- 1.00 %

Radiated Spurious Emission Measurement Uncertainty		
Polarization: Vertical	+/- 1.89 dB	9kHz - 30MHz
	+/- 4.10 dB	30MHz - 1000MHz
	+/- 3.41 dB	1GHz - 18GHz
	+/- 3.89 dB	18GHz - 40GHz
Polarization: Horizontal	+/- 1.89 dB	9kHz - 30MHz
	+/- 4.10 dB	30MHz - 1000MHz
	+/- 3.41 dB	1GHz - 18GHz
	+/- 3.89 dB	18GHz - 40GHz
Radiated Spurious Emission	+/- 2.00 dB	33GHz - 50GHz
	+/- 1.59 dB	50GHz - 60GHz
	+/- 1.71 dB	60GHz - 90GHz
	+/- 1.64 dB	90GHz - 140GHz
	+/- 3.84 dB	140GHz - 220GHz

Note

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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2.3 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number / Registration Number	IC CAB identifier / Company Number
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803	SAC 1 / SAC 2 / SAC 3 Conduction 1 / Conducted 1 Conducted 2 / Conducted 3 Conducted 4 / Conducted 5 Conducted 6 / FAC 1	TW0027 / 891563	TW3702 / 4620A
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.2, Keji 1st Rd, Guishan District, Taoyuan City, Taiwan 333	SAC C / SAC D / SAC G Conduction C/ Conducted A Conducted B / Conducted C Conducted D / Conducted E Conducted F / Conducted G FAC A	TW0028 / 200037	TW3702 / 4620E

Measurement	Test Site Name	Test Engineer	EUT S/N	Test Environment	Test Date
Conducted	Conducted 2	Chris Ye	1200602574	20~23°C / 53~62%	2026/05/21 ~ 2026/06/03
Radiated	SAC 2	Bob Chao	1200602587	23.1~24.9°C / 57~64%	2026/05/20 ~ 2026/05/28

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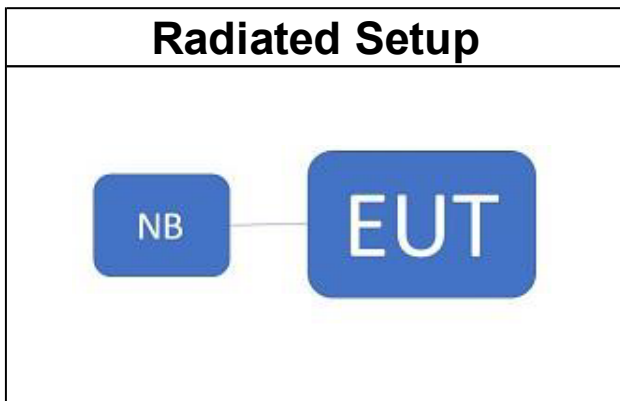
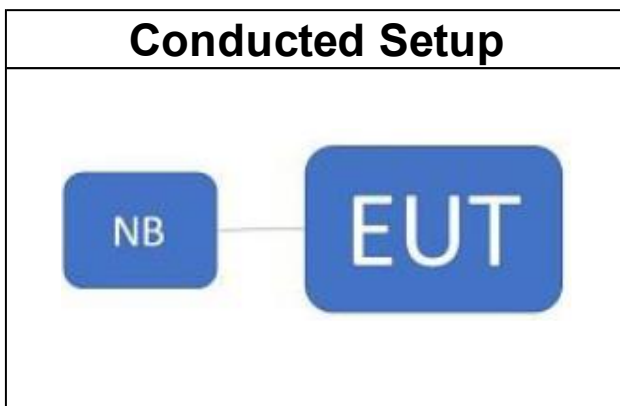
3 CONTROL UNIT(S) AND PERIPHERAL(S)

3.1 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

3.2 Diagrams



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3.3 List

3.3.1 Conducted Setup

Conducted Emission Test Site: Conducted 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Test Kit	FTDI	FTDI FT232RL	N/A	N/A	N/A
Notebook	Lenovo	L480	PF-1M4D8L 19/03	N/A	N/A

3.3.2 Radiated Setup

Radiated Emission Test Site: SAC 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Notebook	Lenovo	L480	PF-1QCNW8 19/06	N/A	N/A

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4 TEST INSTRUMENT

4.1 Conducted Measurement

Conducted Emission Test Site: Conducted 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Attenuator	Mini-Circuits	BW-S10W2+	6	12/07/2025	12/06/2026
MXA Spectrum Analyzer	KEYSIGHT	N9021B	MY62242004	06/11/2025	06/10/2026
Power Meter	Anritsu	ML2496A	1804002	04/24/2026	04/23/2027
Power Sensor	Anritsu	MA2411B	1726105	04/24/2026	04/23/2027
Power Sensor	Anritsu	MA2411B	1726106	04/24/2026	04/23/2027
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R

4.2 Radiated Measurement

Radiated Emission Test Site: SAC 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
3.2G High Pass Filter	Woken	WHKX10-2624	3	12/07/2025	12/06/2026
Attenuator	Mini-Circuits	BW-S10W2+	10	12/07/2025	12/06/2026
Band Reject Filter 2400-2483.5	Titan	T04N2400248350S01	23040703-10	12/07/2025	12/06/2026
Bi-log Antenna	SCHWARZBECK	VULB9168	9168-1278	03/24/2026	03/23/2027
Coaxial Cables	EMCI	EMC104-SM-SM-600 +EMC105-SM-SM-2000 +EMC105-SM-SM-1500 +EMC105-SM-SM-10000	RX Cable 9K-18G (220237+220909+220906+240801)	07/14/2025	07/13/2026
Coaxial Cables	Huber Suhner	SUCOFLEX 102	RX Cable 18G-40G MY2630/2+805062/2	07/14/2025	07/13/2026
EMI Test Receiver	R&S	ESR 7	102525	02/23/2026	02/22/2027
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071570	07/04/2025	07/03/2026
Horn Antenna	RF SPIN	DRH0844	LE2D05A0844	08/07/2025	08/06/2026
Horn Antenna	RF SPIN	DRH18-E	210303A18-ES	03/11/2026	03/10/2027
Loop Antenna	COM-POWER	AL-130R	10160104	12/30/2025	12/29/2026
Pre-Amplifier	EMCI	EMC118A45SEE	980867	07/14/2025	07/13/2026
Pre-Amplifier	EMCI	EMC184045SEE	980939	07/14/2025	07/13/2026
Pre-Amplifier	EMCI	EMC330N	980826	07/14/2025	07/13/2026
Site Cal	SGS	SAC 2	N/A	07/14/2025	07/13/2026
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R

NOTE: N.C.R refers to Not Calibrated Required.

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5 REGULATORY REQUIREMENTS

5.1 Emission Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

5.2 Duty Cycle

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

5.3 Maximum Output Power

FCC

For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt.

If the transmitting antenna of directional gain greater than 6dBi are used the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the Antenna exceeds 6dBi.

5.4 Maximum Power Spectral Density

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

The power spectral density shall be determined using the same method as is used to determine the maximum conducted output power.

5.5 Out of Band Emission

For emissions in non-restricted frequency bands, 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, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

5.6 Unwanted Emissions

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or

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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, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

In addition, radiated emissions which fall in the restricted bands must also comply with the applicable radiated emission limits as defined in the general emission limit tables.

Moreover, for an intentional radiator operating below 10 GHz, the frequency range of measurements shall extend up to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	2400/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note: The lower limit shall apply at the transition frequencies.

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f (886-2) 2298-0488

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6 TEST CONFIGURATION

6.1 Emission Bandwidth



1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. 6dB BW measurements
The testing is performed in accordance with the applicable regulatory measurement procedure.
Set the spectrum analyzer as
RBW= 1% to 5% of the OBW but not less than 100 kHz,
VBW $\geq 3 \times$ RBW,
Span= 2 to 5 times of the OBW,
Sweep=Auto, Detector = Peak, and Trace mode = Max Hold.
Use the X dB bandwidth mode function of the spectrum analyzer and set to 6dB.
Repeat above procedures until all test default channel is completed.
4. 99% BW measurements
The testing is performed in accordance with the applicable regulatory measurement procedure.
Set the spectrum analyzer as
RBW= 1 % to 5% of 99% without going below 10kHz,
VBW $\geq 3 \times$ RBW,
Span= 1.5 to 5 times of the OBW,
Sweep=Auto, Detector = Peak, and Trace mode = Max Hold.
Use the 99% power bandwidth function of the spectrum analyzer.
Repeat above procedures until all test default channel is completed.

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6.2 Maximum Output Power

6.2.1 Duty Cycle



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

Set the spectrum analyzer as

Center Frequency = fundamental frequency

Span = Zero,

RBW = 8 MHz,

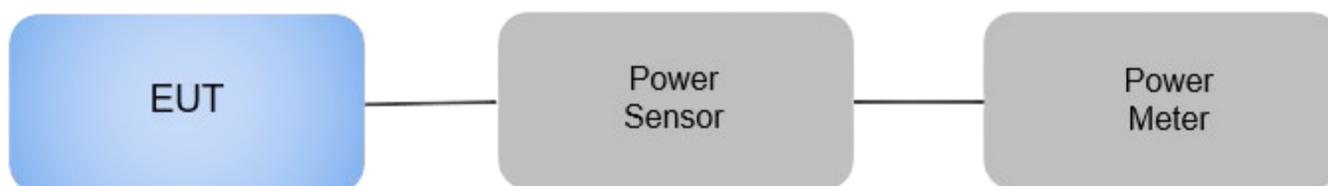
VBW = 8 MHz,

Detector = Peak,

Allow trace to fully stabilize.

Use the delta marker function to determine the ON and OFF times.

6.2.2 Maximum Output Power



1. The testing is performed in accordance with the applicable output power measurement procedure.
2. Place the EUT on the table and set it to transmit mode.
3. Remove the antenna from the EUT and connect a low-loss RF cable from the antenna port to the power meter.
4. The power meter is used as auxiliary test equipment to conduct the output power measurement. Record the maximum reading as observed from the spectrum analyzer or power meter.

When testing for multiple output ports in simultaneous transmission mode, the measured values of each individual output port are tested separately and then linearly summed.

The directional gain is calculated using the formula

$$DirectionalGain = 10 \times \log_{10} \left(\frac{(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_n/20})^2}{N_{ant}} \right)$$

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Allow trace to fully stabilize.

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

6.3 Maximum Power Spectral Density



The test is conducted in accordance with the applicable regulatory measurement procedure.

Set spectrum analyzer center frequency to DTS channel center frequency.

Set the span > 1.5 times the DTS channel bandwidth.

Set the RBW = 3 kHz and VBW = 10 kHz.

Detector = Peak

Sweep time = Auto Couple.

Trace mode = Max Hold.

Allow trace to fully stabilize.

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

When testing for multiple output ports in simultaneous transmission mode, the measured values of each individual output port are tested separately and then linearly summed.

The directional gain is calculated using the formula

$$DirectionalGain = 10 \times \log_{10} \left(\frac{(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_n/20})^2}{N_{ant}} \right)$$

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6.4 Out of Band Emission



6.4.1 Reference Level of Emission Limit

The testing is performed in accordance with the applicable measurement procedure.

Set the analyzer center frequency to the DTS channel center frequency.

Set the span to 1.5 times the DTS channel bandwidth.

Set RBW = 100 kHz and VBW = 300 kHz.

Detector = peak

Sweep time = Auto Couple.

Trace mode = Max Hold.

Allow the trace to fully stabilize.

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

6.4.2 Conducted Band Edge

1. The testing is performed in accordance with the applicable measurement procedure.

2. Connect the antenna port of the EUT to the spectrum analyzer.

3. Remove the antenna from the EUT and connect a low-loss RF cable from the antenna port to the spectrum analyzer.

4. Set the start frequency and stop frequency of the spectrum analyzer to encompass the spectrum to be examined.

5. Configure the spectrum analyzer as follows:

RBW = 100 kHz

VBW = 300 kHz

Detector = Peak

Sweep = Auto

Mark the highest reading of the emission as the reference level.

Set the display limit as: reference level marker reading -20 dBm.

Mark the highest emissions observed outside of the 2400 MHz to 2483.5 MHz band.

6. Repeat the above procedure for each default test channel (low, middle, and high).

6.4.3 Conducted Spurious Emission

1. The testing is performed in accordance with the applicable measurement procedure.

2. Connect the antenna port of the EUT to the spectrum analyzer.

3. Configure the spectrum analyzer as follows:

RBW = 100 kHz

VBW = 300 kHz

Detector = Peak

Sweep = Auto.

Allow the trace to fully stabilize.

Use the peak marker function to determine the maximum power level in any 100

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kHz band segment within the fundamental emission bandwidth (EBW).

4. Repeat the above procedures until all default test channels (low, middle, and high) have been measured.

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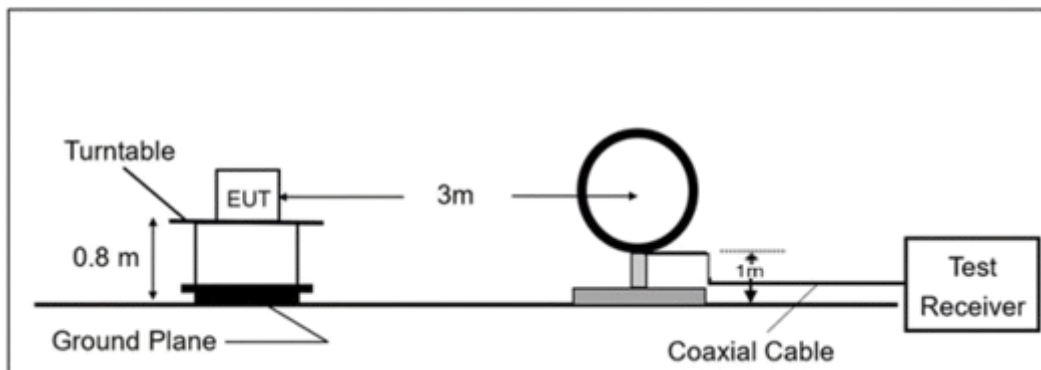
6.5 Unwanted Emissions

For Measurements From 9 kHz To 30 MHz

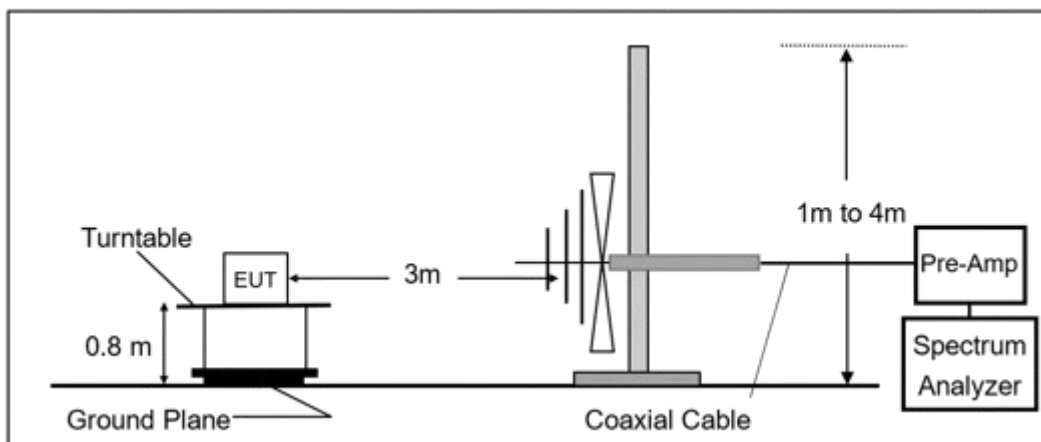
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

Radiated Emission Test Set-Up, Frequency Below 30MHz.



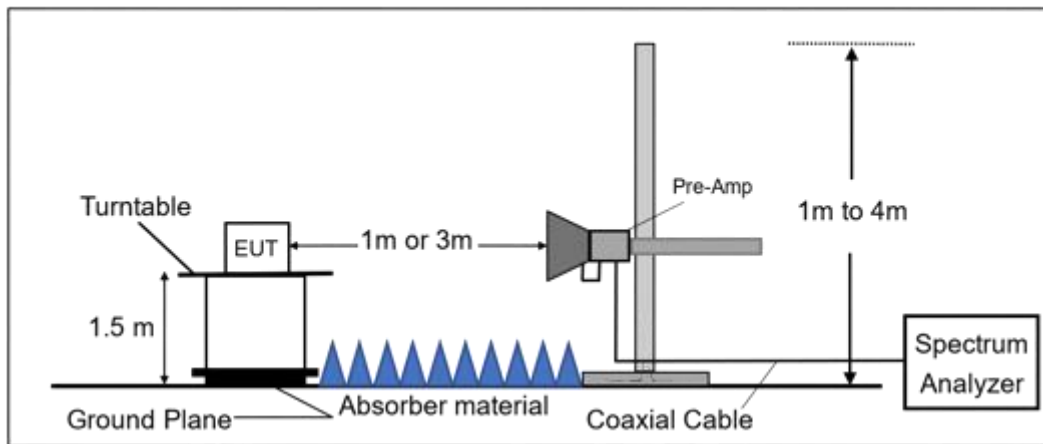
Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



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Radiated Emission Test Set-Up, Frequency Above 1GHz.



1. The testing was performed in accordance with the applicable radiated emission measurement procedure.
2. The EUT was placed on a turntable at a height of 0.8 m for frequencies below 1 GHz and 1.5 m for frequencies above 1 GHz.
3. The turntable was rotated 360 degrees to determine the position of the maximum emission level.
4. The EUT was positioned 3 meters away from the receiving antenna, which was varied in height from 1 m to 4 m to locate the highest emissions.
5. For measurements below 30MHz, set the spectrum analyzer as
 - ☒ For Peak measurement
 - RBW=10 kHz
 - VBW=30 kHz
 - Detector = peak
 - Trace mode = max-hold
 - ☒ For Quasi-peak measurement in receiver mode
 - RBW=10 kHz
 - Detector = Quasi-Peak
 - Peak detection is used unless otherwise noted as quasi-peak.
6. For measurements in 30MHz to 1GHz, set the spectrum analyzer as
 - ☒ For Peak measurement
 - RBW=100 kHz
 - VBW=300 kHz
 - Detector = peak
 - Trace mode = max-hold
 - ☒ For Quasi-peak measurement in receiver mode
 - RBW=120 kHz
 - Detector = Quasi-Peak
 - Peak detection is used unless otherwise noted as quasi-peak.
7. For measurements above 1GHz, set the spectrum analyzer as
 - ☒ For Peak measurement:
 - RBW=1 MHz
 - VBW=3 MHz

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Detector = peak

Trace mode = max-hold

☒ For Average measurement:

☒ Duty cycle $\geq 98\%$:

RBW=1 MHz

VBW=3 MHz

Detector = Power averaging (rms)

trace average was performed over at least 100 traces

☒ Duty cycle $< 98\%$

RBW=1 MHz

VBW $\geq 1/T$

Detector = peak

Trace mode = max-hold

☐ Duty cycle $< 98\%$

RBW=1 MHz

VBW ≥ 3 MHz

Detector = Power averaging (rms)

trace average was performed over at least 100 traces

add Duty cycle factor(dB)

☐ Duty cycle factor (DCF)

the average value of pulsed emissions with duty cycle correction factor 20 log (Ton/100ms) from the peak measurement

8. When measuring radiated emissions above 1 GHz, the receiving antenna was maintained within the "cone of radiation" and pointed at the emission source in both azimuth and elevation, with polarization oriented for maximum response, ensuring it remained within the 3 dB illumination beamwidth of the measurement antenna.
9. The six highest emissions were fully maximized using the above procedures to ensure EUT compliance.
10. Each emission was further maximized by changing the receiving antenna polarization between horizontal and vertical.
11. Repeat the above procedures until all default test channels (low, middle, and high) are measured.

Note: Emissions from 9 kHz to 30 MHz were pre-scanned and found to be at least 20 dB below the applicable limits, and are therefore not reported.

6.5.1 Field Strength Calculation

The field strength is calculated by adding the antenna factor and cable loss, then subtracting the amplifier gain and any applicable duty cycle correction factor from the measured reading. The basic equation and an example calculation are as follows:

$$FS = RA + AF + CL - AG$$

Where:

FS = Field Strength (dB μ V/m)

RA = Reading Amplitude (dB μ V)

AF = Antenna Factor (dB/m)

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CL = Cable Loss (dB)

AG = Amplifier Gain (dB)

The emission limit is expressed in dB μ V/m, which corresponds to the logarithmic conversion of $20 \times \log_{10} (\mu\text{V/m})$.

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SGS Taiwan Ltd.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

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7 TEST RESULTS

7.1 Emission Bandwidth

802.11b_Ch0

Freq. (MHz)	99% BW (MHz)	6dB BW (kHz)	6dB BW Limit (kHz)	Result
2467	13.266	8200	≥ 500	PASS
2472	12.907	8167	≥ 500	PASS

802.11b_Ch1

Freq. (MHz)	99% BW (MHz)	6dB BW (kHz)	6dB BW Limit (kHz)	Result
2467	13.376	8635	≥ 500	PASS
2472	13.129	8200	≥ 500	PASS

802.11g_Ch0

Freq. (MHz)	99% BW (MHz)	6dB BW (kHz)	6dB BW Limit (kHz)	Result
2467	16.376	16150	≥ 500	PASS
2472	15.370	9969	≥ 500	PASS

802.11g_Ch1

Freq. (MHz)	99% BW (MHz)	6dB BW (kHz)	6dB BW Limit (kHz)	Result
2467	15.364	9572	≥ 500	PASS
2472	16.309	15900	≥ 500	PASS

802.11n_HT20_Ch0

Freq. (MHz)	99% BW (MHz)	6dB BW (kHz)	6dB BW Limit (kHz)	Result
2467	17.550	17010	≥ 500	PASS
2472	16.542	8993	≥ 500	PASS

802.11n_HT20_Ch1

Freq. (MHz)	99% BW (MHz)	6dB BW (kHz)	6dB BW Limit (kHz)	Result
2467	16.477	8055	≥ 500	PASS
2472	17.510	17210	≥ 500	PASS

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802.11n_HT40_Ch0

Freq. (MHz)	99% BW (MHz)	6dB BW (kHz)	6dB BW Limit (kHz)	Result
2457	35.804	35390	≥ 500	PASS
2462	35.894	35930	≥ 500	PASS

802.11n_HT40_Ch1

Freq. (MHz)	99% BW (MHz)	6dB BW (kHz)	6dB BW Limit (kHz)	Result
2457	35.941	35900	≥ 500	PASS
2462	35.929	35650	≥ 500	PASS

802.11ax_HE20_Ch0

Freq. (MHz)	RU Config	99% BW (MHz)	6dB BW (kHz)	6dB BW Limit (kHz)	Result
2467	full	18.931	18810	≥ 500	PASS
2472	full	17.714	8868	≥ 500	PASS

802.11ax_HE20_Ch1

Freq. (MHz)	RU Config	99% BW (MHz)	6dB BW (kHz)	6dB BW Limit (kHz)	Result
2467	full	17.523	8349	≥ 500	PASS
2472	full	18.854	18790	≥ 500	PASS

802.11ax_HE40_Ch0

Freq. (MHz)	RU Config	99% BW (MHz)	6dB BW (kHz)	6dB BW Limit (kHz)	Result
2457	full	37.484	35460	≥ 500	PASS
2462	full	37.570	36530	≥ 500	PASS

802.11ax_HE40_Ch1

Freq. (MHz)	RU Config	99% BW (MHz)	6dB BW (kHz)	6dB BW Limit (kHz)	Result
2457	full	37.560	35260	≥ 500	PASS
2462	full	37.531	35440	≥ 500	PASS

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7.2 Duty Cycle

Mode		Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11b		84.92	0.71	0.18	1.00
802.11g		84.62	0.73	0.48	1.00
802.11n_20		84.40	0.74	0.54	1.00
802.11n_40		84.26	0.74	1.10	2.00
Mode	RU Config	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11ax_20_RU	Full	84.27	0.74	1.33	2.00
	26 RU	84.81	0.72	0.22	1.00
	52 RU	84.81	0.72	0.22	1.00
	106 RU	84.80	0.72	0.28	1.00
802.11ax_40_RU	Full	83.33	0.79	1.82	2.00
	242 RU	84.66	0.72	0.63	1.00

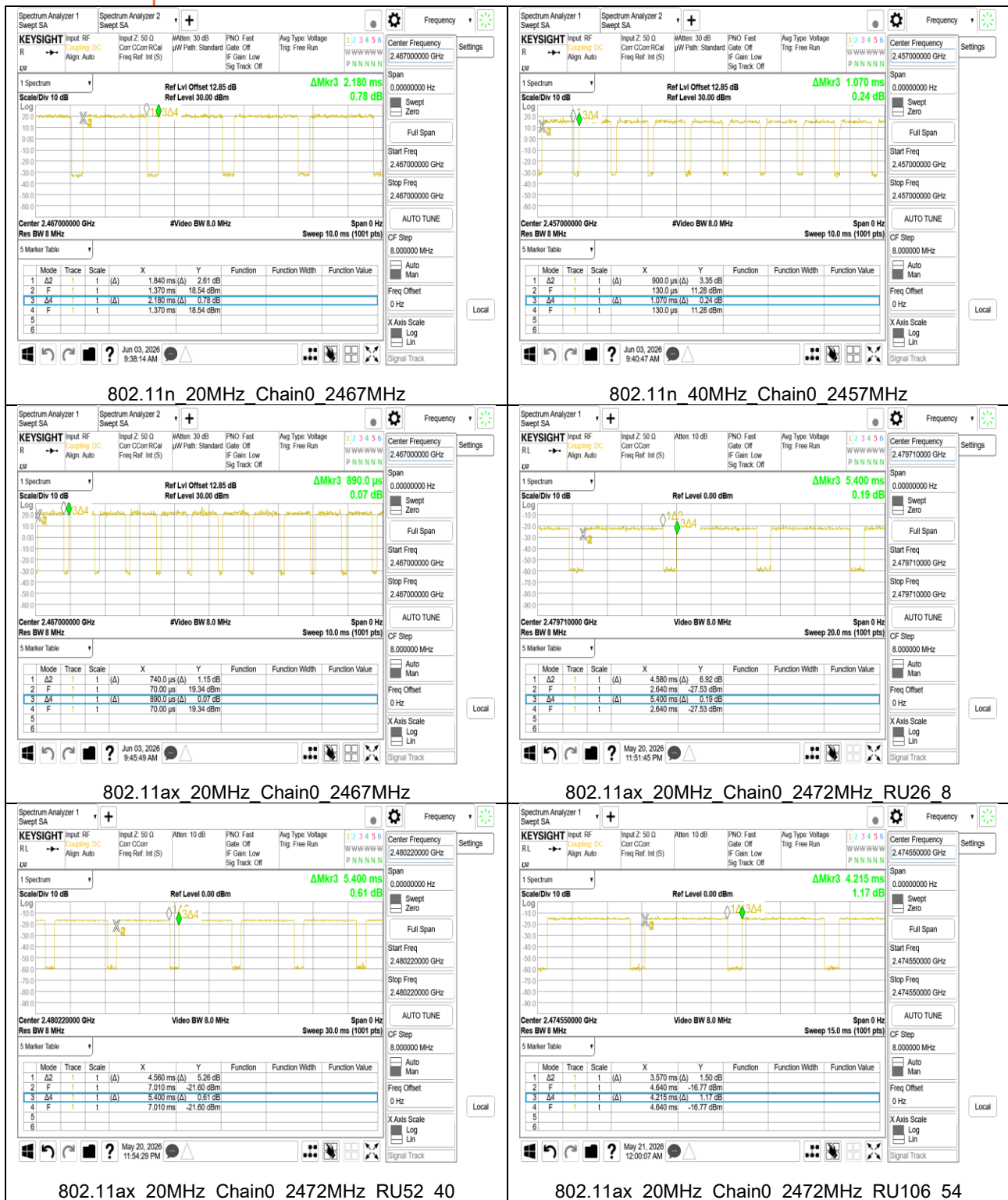
7.2.1 Duty Cycle test plots



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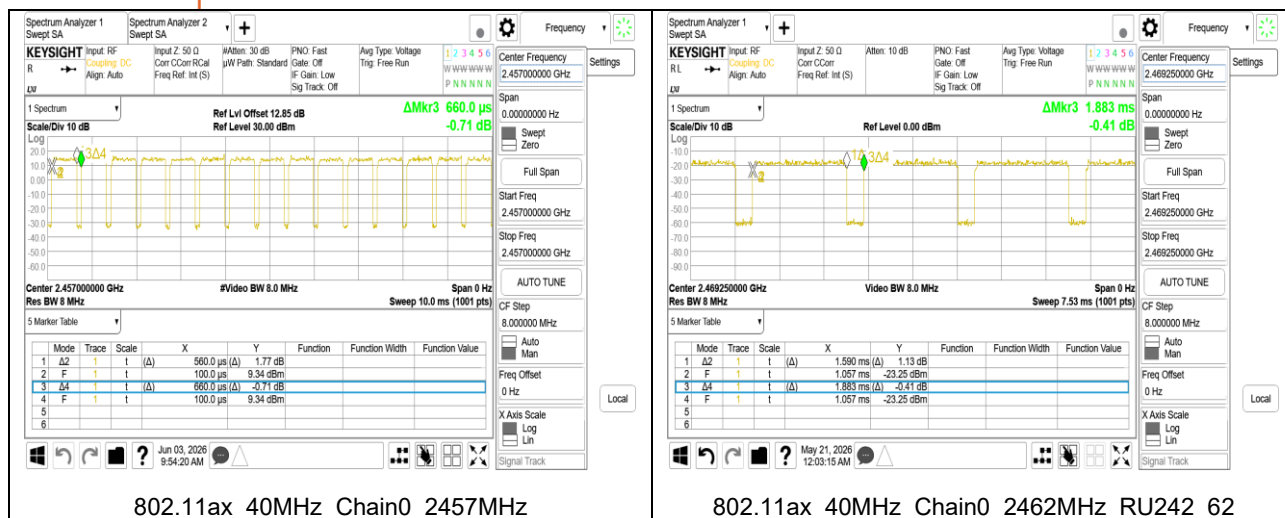
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7.3 Maximum Output Power

802.11b_2TX									
CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (dBm)		Total Peak Output Power (mW)	Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				Ch0	Ch1				
12	2467	1	14	17.35	18.18	120.09	20.80	30.00	PASS
13	2472	1	14	17.34	18.28	121.50	20.85	30.00	PASS
802.11b_2TX									
CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (dBm)		Total Avg. Output Power (mW)	Total Avg. Output Power (dBm)	Limit (dBm)	RESULT
				Ch0	Ch1				
12	2467	1	14	14.26	15.58	62.81	17.98	30.00	PASS
13	2472	1	14	14.40	15.43	62.45	17.96	30.00	PASS
802.11g_2TX									
CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (dBm)		Total Peak Output Power (mW)	Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				Ch0	Ch1				
12	2467	6	14	20.81	21.78	271.16	24.33	30.00	PASS
13	2472	6	11	22.38	23.37	390.25	25.91	30.00	PASS
802.11g_2TX									
CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (dBm)		Total Avg. Output Power (mW)	Total Avg. Output Power (dBm)	Limit (dBm)	RESULT
				Ch0	Ch1				
12	2467	6	14	14.28	15.54	62.53	17.96	30.00	PASS
13	2472	6	11	12.10	13.36	37.85	15.78	30.00	PASS
802.11n_HT20_2TX									
CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (dBm)		Total Peak Output Power (mW)	Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				Ch0	Ch1				
12	2467	MCS0	14	20.63	21.45	255.25	24.07	30.00	PASS
13	2472	MCS0	10.5	21.52	22.65	325.98	25.13	30.00	PASS
802.11n_HT20_2TX									
CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (dBm)		Total Avg. Output Power (mW)	Total Avg. Output Power (dBm)	Limit (dBm)	RESULT
				Ch0	Ch1				
12	2467	MCS0	14	14.28	15.52	62.39	17.95	30.00	PASS
13	2472	MCS0	10.5	11.63	12.64	32.89	15.17	30.00	PASS

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SGS Taiwan Ltd.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

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802.11n_HT40M_2TX

CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (dBm)		Total Peak Output Power (mW)	Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				Ch0	Ch1				
10	2457	MCS0	11	18.26	18.43	136.65	21.36	30.00	PASS
11	2462	MCS0	9.5	19.74	20.86	216.09	23.35	30.00	PASS

802.11n_HT40M_2TX

CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (dBm)		Total Avg. Output Power (mW)	Total Avg. Output Power (dBm)	Limit (dBm)	RESULT
				Ch0	Ch1				
10	2457	MCS0	11	11.77	11.93	30.65	14.86	30.00	PASS
11	2462	MCS0	9.5	10.39	11.35	24.61	13.91	30.00	PASS

802.11ax_HE20_2TX

CH	Freq. (MHz)	Data Rate	RU Config	Power Setting	Peak Output Power (dBm)		Total Peak Output Power (mW)	Total Peak Output Power (dBm)	Limit (dBm)	RESULT
					Ch0	Ch1				
12	2467	MCS0	full	14	21.98	22.63	340.99	25.33	30.00	PASS
13	2472	MCS0	full	10	20.34	21.43	247.14	23.93	30.00	PASS
			26/8	19	15.09	16.70	79.06	18.98	30.00	PASS
			52/40	3	12.42	14.22	43.88	16.42	30.00	PASS
			106/54	2.5	13.72	13.76	47.32	16.75	30.00	PASS

802.11ax_HE20_2TX

CH	Freq. (MHz)	Data Rate	RU Config	Power Setting	Avg. Output Power (dBm)		Total Avg. Output Power (mW)	Total Avg. Output Power (dBm)	Limit (dBm)	RESULT
					Ch0	Ch1				
12	2467	MCS0	full	14	14.41	15.39	62.09	17.93	30.00	PASS
13	2472	MCS0	full	10	10.91	11.96	27.86	14.45	30.00	PASS
			26/8	19	1.76	3.04	3.51	5.45	30.00	PASS
			52/40	3	-0.08	2.67	2.83	4.52	30.00	PASS
			106/54	2.5	3.76	4.86	5.43	7.35	30.00	PASS

802.11ax_HE40_2TX

CH	Freq. (MHz)	Data Rate	RU Config	Power Setting	Peak Output Power (dBm)		Total Peak Output Power (mW)	Total Peak Output Power (dBm)	Limit (dBm)	RESULT
					Ch0	Ch1				
10	2457	MCS0	full	10.5	18.28	18.47	137.60	21.39	30.00	PASS
11	2462	MCS0	full	8.5	18.23	19.76	161.15	22.07	30.00	PASS
			242/62	6	16.77	18.20	113.60	20.55	30.00	PASS

802.11ax_HE40_2TX

CH	Freq. (MHz)	Data Rate	RU Config	Power Setting	Avg. Output Power (dBm)		Total Avg. Output Power (mW)	Total Avg. Output Power (dBm)	Limit (dBm)	RESULT
					Ch0	Ch1				
10	2457	MCS0	full	10.5	11.43	11.66	28.12	14.49	30.00	PASS
11	2462	MCS0	full	8.5	9.24	10.30	18.84	12.75	30.00	PASS
			242/62	6	6.67	7.90	10.82	10.34	30.00	PASS

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7.4 Maximum Power Spectral Density

POWER DENSITY 802.11b MODE					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2467	-9.03	-8.11	-5.54	8.00	PASS
2472	-8.71	-9.47	-6.06	8.00	PASS

POWER DENSITY 802.11g MODE					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2467	-11.94	-8.76	-7.05	8.00	PASS
2472	-12.12	-14.66	-10.20	8.00	PASS

POWER DENSITY 802.11n HT20 MODE					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2467	-11.1	-10.29	-7.67	8.00	PASS
2472	-10.1	-14.83	-8.84	8.00	PASS

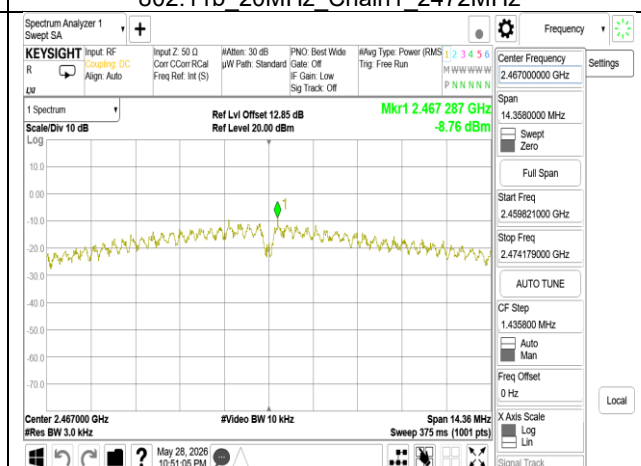
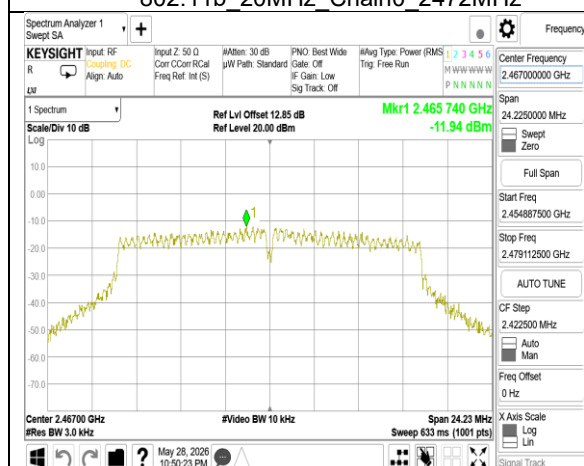
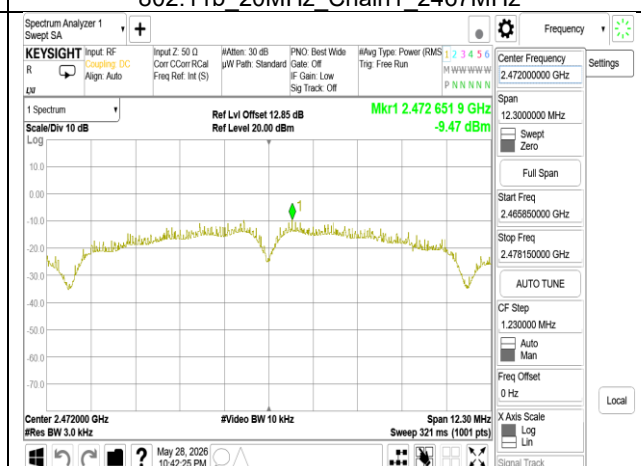
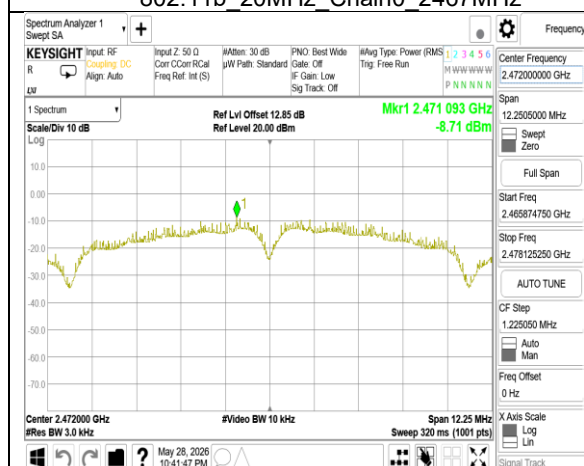
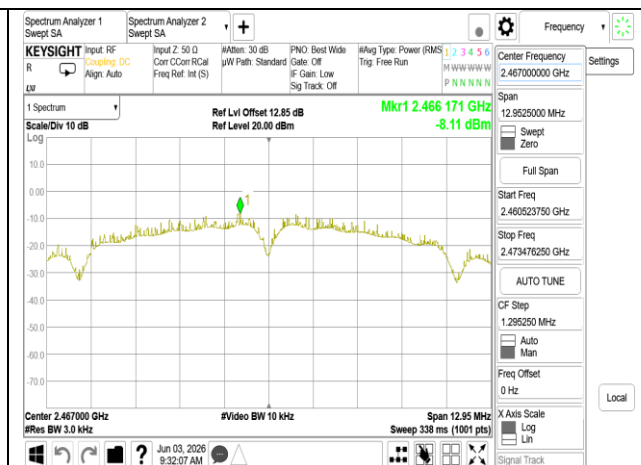
POWER DENSITY 802.11n HT40 MODE					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2457	-16.27	-17.82	-13.97	8.00	PASS
2462	-18.8	-19.04	-15.91	8.00	PASS

POWER DENSITY 802.11ax HE20 RU MODE						
Freq. (MHz)	RU Config	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2467	full	-10.46	-9.91	-7.17	8.00	PASS
2472	full	-13.15	-15.51	-11.16	8.00	PASS
	26/8	-22.77	-17.71	-16.53	8.00	PASS
	52/40	-20.6	-21.5	-18.02	8.00	PASS
	106/54	-18.56	-17.56	-15.02	8.00	PASS

POWER DENSITY 802.11ax HE40 RU MODE						
Freq. (MHz)	RU Config	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2457	full	-16.81	-18.27	-14.47	8.00	PASS
2462	full	-18.13	-18	-15.05	8.00	PASS
	242/62	-19.7	-18.37	-15.97	8.00	PASS

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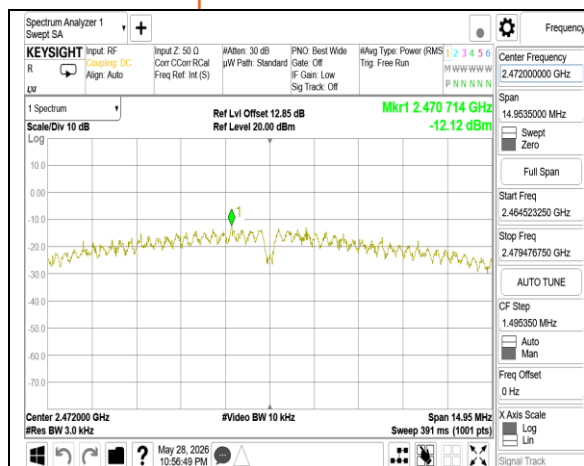
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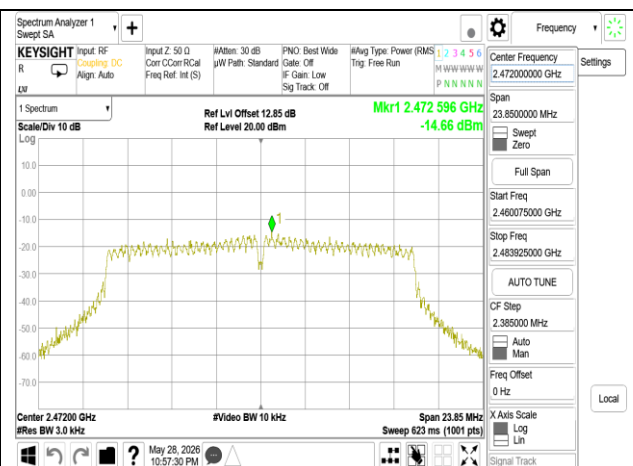
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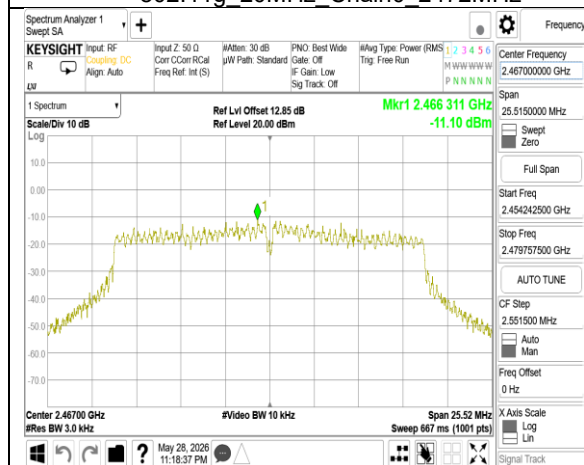
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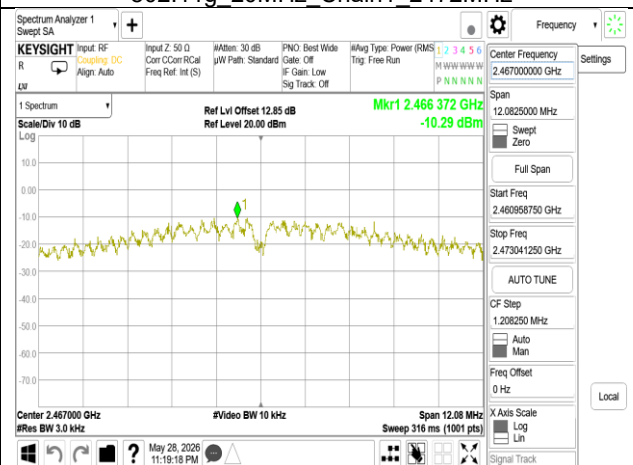
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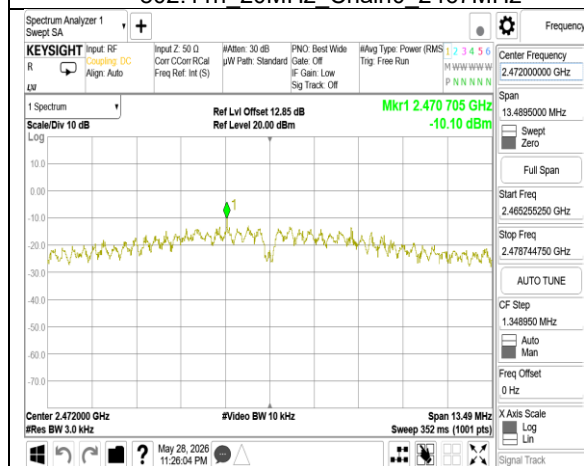
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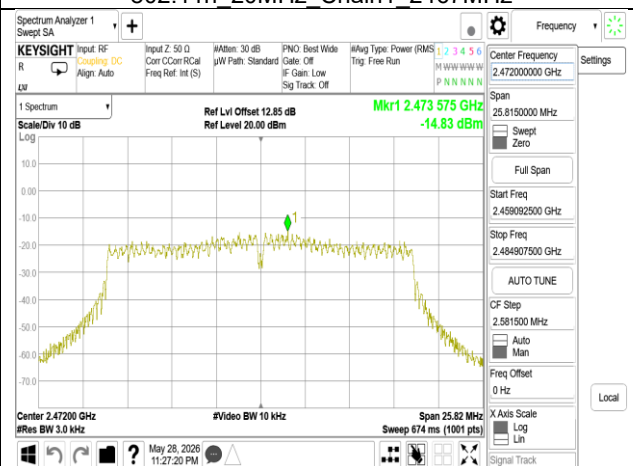
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802.11n_20MHz_Chain1_2467MHz



802.11n_20MHz_Chain0_2472MHz

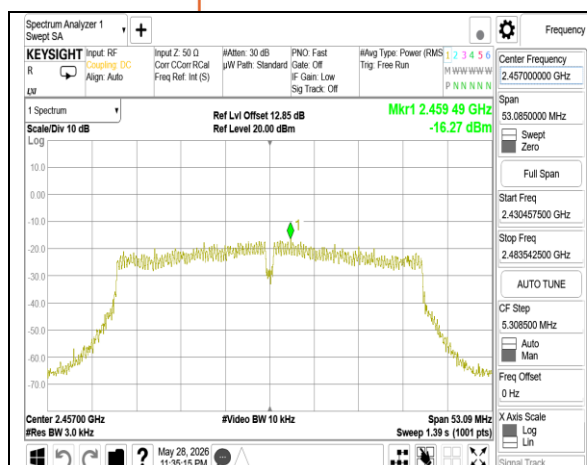


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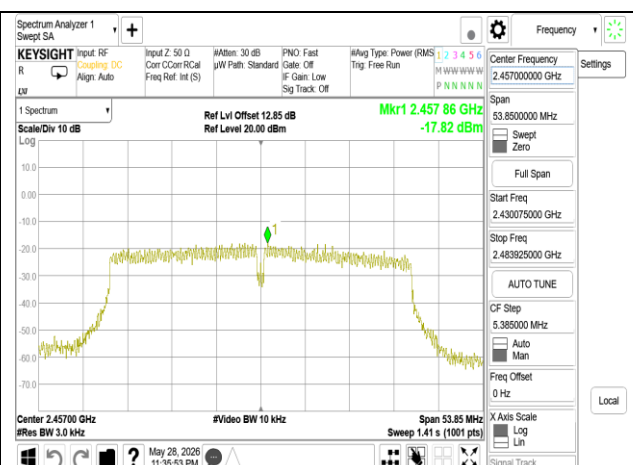
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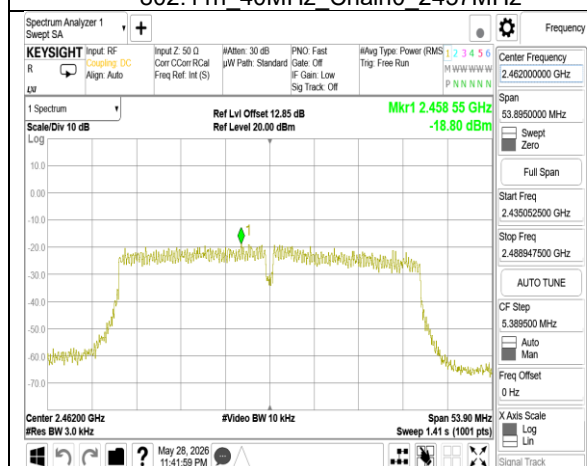
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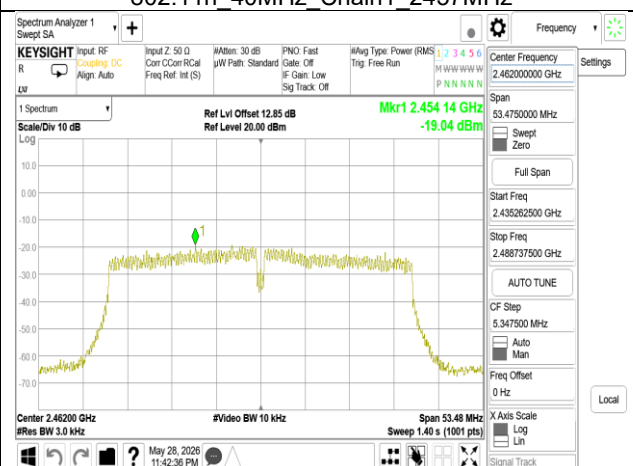
802.11n 40MHz Chain0 2457MHz



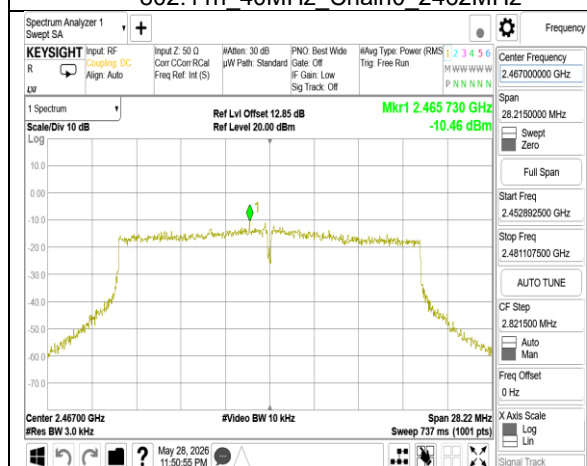
802.11n 40MHz Chain1 2457MHz



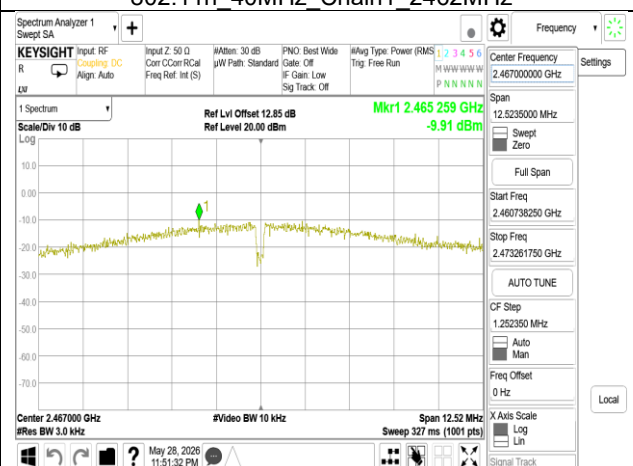
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802.11n 40MHz Chain1 2462MHz



802.11ax 20MHz Chain0 2467MHz

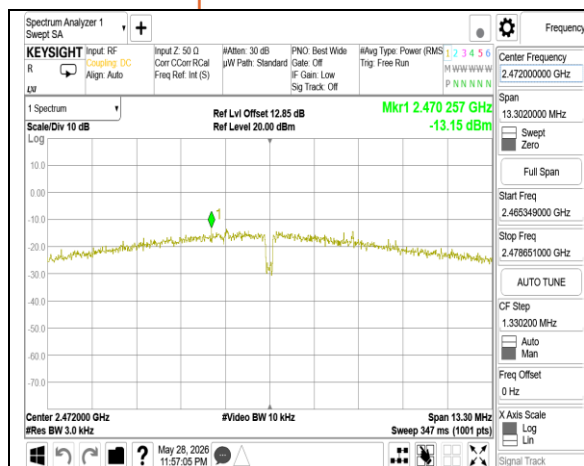


802.11ax 20MHz Chain1 2467MHz

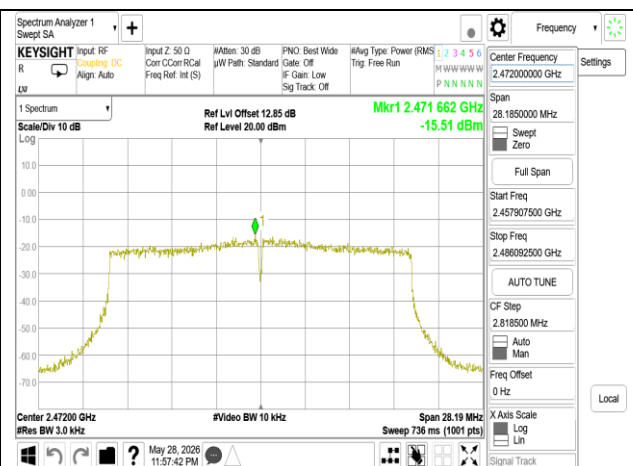
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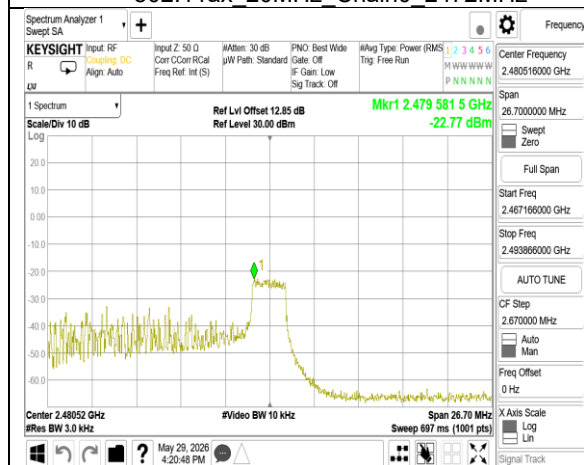
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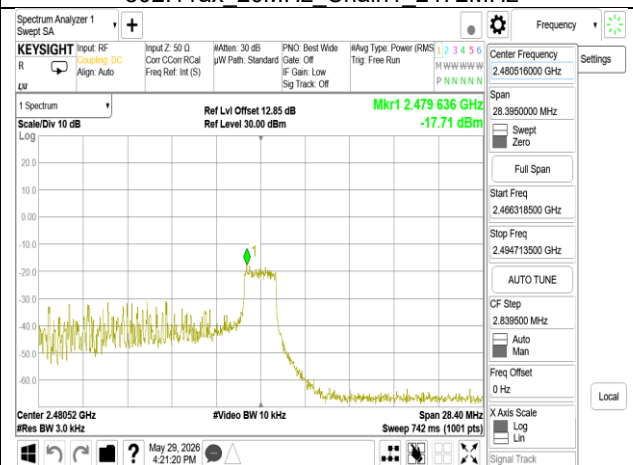
802.11ax 20MHz Chain0 2472MHz



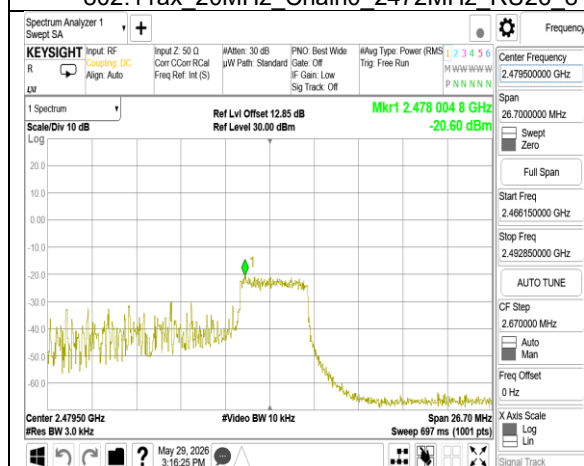
802.11ax 20MHz Chain1 2472MHz



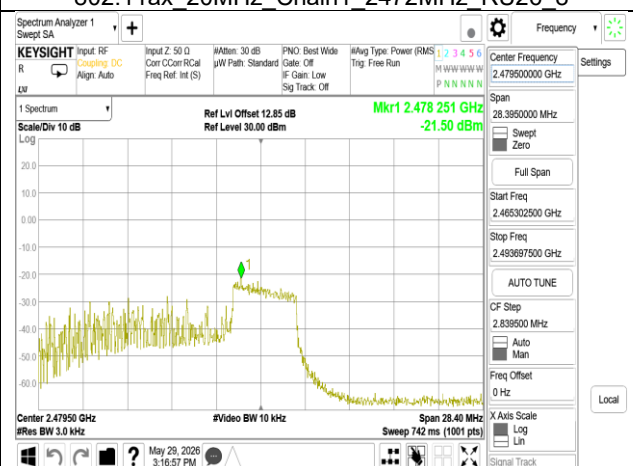
802.11ax 20MHz Chain0 2472MHz RU26_8



802.11ax 20MHz Chain1 2472MHz RU26_8



802.11ax 20MHz Chain0 2472MHz RU52_40



802.11ax 20MHz Chain1 2472MHz RU52_40

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