

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



EUT Description ALARM.COM VIDEO DOORBELL
FCC Applicant: ALARM.COM INCORPORATED
8281 GREENSBORO DRIVE, SUITE 100. TYSONS,
VIRGINIA 22102. USA.
FCC Manufacturer: ALARM.COM INCORPORATED
8281 GREENSBORO DRIVE, SUITE 100. TYSONS,
VIRGINIA 22102. USA.
Brand Name: ALARM.COM
Model No. ADC-VDB750
Report Number: TERF2512004154ER
FCC ID YL6-143VDB750
Date of EUT Received: N/A, the test results are fully leveraged from test report number *TERF2512004159ER*, for more details please refer to section 2 in this report.
Date of Test: N/A, the test results are fully leveraged from test report number *TERF2512004159ER*, for more details please refer to section 2 in this report.
Issue Date: February 13, 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 C63.10:2020 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.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2512004154ER	00	Original	February 13, 2026	Mini Yeh	

Note:

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

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1 GENERAL INFORMATION

1.1 Product Description

EUT Description	ALARM.COM VIDEO DOORBELL
Brand Name:	ALARM.COM
Model No.	ADC-VDB750
Hardware Version:	N/A
Firmware Version:	N/A
Power Supply:	16 Vdc
Test Software (Name/Version)	Tera Term/v4.84

1.2 RF Specification

WLAN 2.4GHz

Mode	Frequency Range	Channels	Rated Power (dBm)		Modulation Technology
			Peak	Avg.	
802.11b	2412~2462	11	25.58	22.96	DSSS
802.11g	2412~2462	11	26.34	22.73	OFDM
802.11n_HT20	2412~2462	11	25.77	21.69	OFDM
Modulation type:		CCK,DQPSK, DBPSK for DSSS in 802.11b			
		64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11g,11n			
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			

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1.3 Antenna Designation

Antenna Type	Model No.	Freq. (MHz)	Peak Antenna Gain (dBi)
Dipole	ALA25F-221AA3-00	2400~2483.5	0.1
	ALA25F-221AA2-00	2400~2483.5	3.6

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.

1.4 Operating Frequencies

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

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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		Ch3		1TX	V	2TX
V	802.11 g	V	Ch0	V	Ch1		Ch2		Ch3		1TX	V	2TX
V	802.11 n	V	Ch0	V	Ch1		Ch2		Ch3		1TX	V	2TX
	802.11 ac		Ch0		Ch1		Ch2		Ch3		1TX		2TX
	802.11 ax		Ch0		Ch1		Ch2		Ch3		1TX		2TX
	802.11 be		Ch0		Ch1		Ch2		Ch3		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 11	1,2,6,10,11	DSSS	1	2TX
802.11g	1 to 11	1,2,3,4,5,6,7,8,9,10,11	OFDM	6	2TX
802.11n_HT20	1 to 11	1,2,3,6,8,9,10,11	OFDM	MCS0	2TX

TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11g	1 to 11	6	OFDM	6	2TX

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TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 11	1,2,6,10,11	DSSS	1	2TX
802.11g	1 to 11	1,2,3,4,5,6,7,8,9,10,11	OFDM	6	2TX
802.11n20	1 to 11	1,2,3,6,8,9,10,11	OFDM	MCS0	2TX

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2 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result	Note
§15.207(a)	AC Power Line Conducted Emission	Compliant	
§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 TERF2512004159ER

2.1 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024

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2.2 Measurement Uncertainty

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 1.54 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	+/- 0.6 °C
Humidity	+/- 3 %
DC / AC Power Source	+/- 1 %

Radiated Spurious Emission Measurement Uncertainty			
Polarization: Vertical	+/-	1.89 dB	9kHz~30MHz
	+/-	4.1 dB	30MHz - 1000MHz
	+/-	3.37 dB	1GHz - 18GHz
	+/-	3.83 dB	18GHz - 40GHz
Polarization: Horizontal	+/-	1.89 dB	9kHz~30MHz
	+/-	4.1 dB	30MHz - 1000MHz
	+/-	3.37 dB	1GHz - 18GHz
	+/-	3.83 dB	18GHz - 40GHz
Radiated Spurious Emission	+/-	2 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	ISED CAB identifier/ Company Number
TW3702 / 4620A	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027 / 891563	TW3702 / 4620A
		SAC 2		
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
		Conducted 6		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C	TW0028 / 200037	TW3702 / 4620E
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
		Conducted G		

Note: The test site name is noted on the equipment list to indicate where the measurements were conducted.

Measurement	Test Site Name	Test Engineer	EUT S/N	Test Environment	Test Date
Conducted	Conducted E	Henry Chiang	50407435023E	21.2~22.3°C / 70~65%	2025/12/17 ~ 2026/01/29
Radiated	SAC G Chamber	Temo Chen	504074350244	21.8~22.3°C / 40~47%	2026/01/08 ~ 2026/01/12
Conduction	Conduction C	Temo Chen	504074350244	20.6°C / 54%	2026/01/14 ~ 2026/01/14

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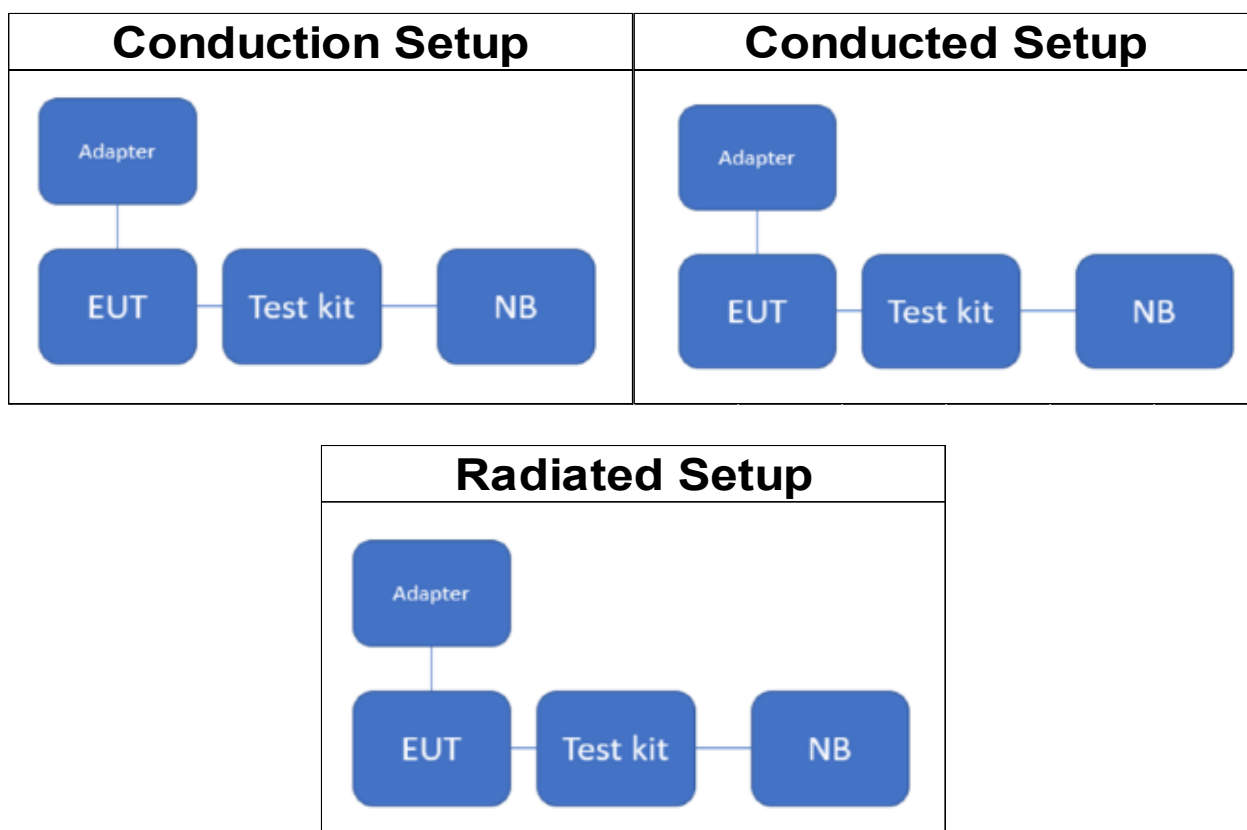
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3 CONTROL UNIT(S) AND PERIPHERAL(S)

3.1 EUT Exercise

1. An engineering test mode provided by the applicant was used to control the EUT transmission, test channel, and modulation.
2. The spectrum analyzer offset was set to compensate for RF cable loss and attenuation between the EUT and the analyzer, ensuring the reading reflects the actual RF output level. Duty factor compensation was also applied where applicable.

3.2 Diagrams



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3.3 List

AC Power-Line Conducted Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Test Kit	LCC Fusion	Fusion Breakout Board	N/A	N/A	N/A
Adapter	Sunny-Hung	ADC-VD750-J	N/A	N/A	N/A
Notebook	Lenovo	T440p	P0000665	N/A	N/A
Conducted Emission Test Site: Conducted E					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Test Kit	LCC Fusion	Fusion Breakout Board	N/A	N/A	N/A
Adapter	Sunny-Hung	ADC-VD750-J	N/A	N/A	N/A
Notebook	Lenove	T490	P0002550	N/A	N/A
Radiated Emission Test Site: SAC G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Test Kit	LCC Fusion	Fusion Breakout	N/A	N/A	N/A
Adapter	Sunny-Hung	ADC-VD750-J	N/A	N/A	N/A
Notebook	Lenovo	T440p	P0000665	N/A	N/A

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4 TEST INSTRUMENT

4.1 Conducted Measurement

Conducted Emission Test Site: Conducted E					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Attenuator	Marvelous	MVE2213-10	RF05	11/13/2025	11/12/2026
DC Block	PASTERNAK	PE8210	RF34	11/13/2025	11/12/2026
Power Meter	Anritsu	ML2496A	1326001	07/29/2025	07/28/2026
Power Sensor	Anritsu	MA2411B	1315048	07/29/2025	07/28/2026
Power Sensor	Anritsu	MA2411B	1315049	07/29/2025	07/28/2026
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	04/02/2025	04/01/2026
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R

4.2 Radiated Measurement

Radiated Emission Test Site: SAC G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
1G Low pass Filter	Woken	EWT-56-0019	RF156	11/13/2025	11/12/2026
2400-2500 Notch Filter-01	Micro-Tronics	BRM50701-G008	RF200	11/13/2025	11/12/2026
3m Site NSA	SGS	966 chamber G	N/A	03/30/2025	03/29/2026
Active Loop Antenna	COM-POWER	AL-130R	10160105	12/16/2025	12/15/2026
Broadband Antenna	SCHWARZBECK	VULB 9168	1206	01/08/2026	01/07/2027
Coaxial Cable	EMCI+Huber Suhner	EMCCFD400-NM-NM-8000+EMCCFD400-NM-NM-5000+SUCOFLEX100+EMC104-SM-SM-2000+EMC104-SM-SM-8000+EMC104-SM-SM-5000	210216+210217+84103701/15+160105+210217+210220	11/13/2025	11/12/2026
Horn Antenna	RF SPIN	DRH18-E	210105A18E	04/15/2025	04/14/2026
Horn Antenna	Schwarzbeck	BBHA9170	185	08/07/2025	08/06/2026
Pre-Amplifier	EMC Instruments	EMC118A45SE	980815	11/13/2025	11/12/2026
Pre-Amplifier	EMC Instruments	EMC184045SEE	980881	11/13/2025	11/12/2026
Pre-Amplifier	EMC Instruments	EMC330N	980781	11/13/2025	11/12/2026
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071574	06/26/2025	06/25/2026
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R

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4.3 Emission from AC power line

AC Power-Line Conducted Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Coaxial Cable	EC Lab	RF-HY-CAB-250	RF-HY-CAB-250-01	03/27/2025	03/26/2026
EMI Test Receiver	R&S	ESCI	101342	04/23/2025	04/22/2026
LISN	SCHWARZBECK Mess-Elektronik	NSLK8127	973	04/18/2025	04/17/2026
Pulse Limiter	EC Lab	VTSD 9561F-N	485	03/27/2025	03/26/2026
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	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

5.3.1 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.

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5.6 Unwanted Emissions

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.

In addition, radiated emissions which fall in the restricted bands must also comply with the limit as below.

Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/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.

For an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

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5.7 AC Power Line Conducted Emission

Frequency range within 150kHz to 30MHz shall not exceed the Limit table as below.

Frequency range MHz	Limits (dBuV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50
Note 1.The lower limit shall apply at the transition frequencies 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.		

5.8 Antenna Requirement

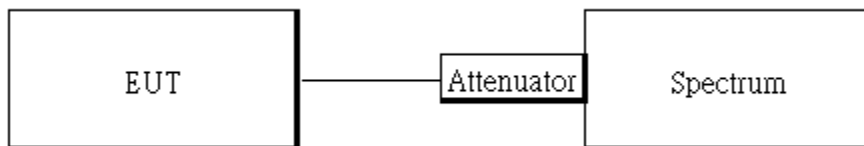
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

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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.

6.1.1 6dB BW measurements

1. 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 Max hold.
2. Use the X dB bandwidth mode function of the spectrum analyzer and set to 6dB.
3. Repeat above procedures until all test default channel is completed.

6.1.2 99% BW measurements

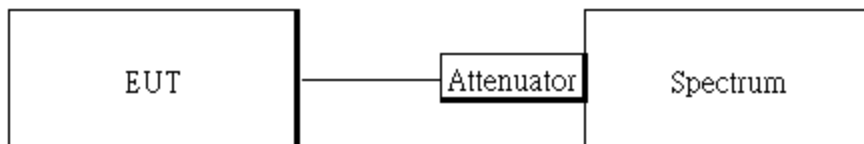
3. Set the spectrum analyzer as
RBW= 1 % to 5% of 99% without going below 10kHz,
VBW $\geq 3 \times$ RBW,
Span= 1.5 to 5 times of the OBW
Sweep=auto,
Detector = Peak, and Max hold.
4. Use the 99% power bandwidth function of the spectrum analyzer.
5. Repeat above procedures until all test default channel is completed.

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6.2 Maximum Output Power

6.2.1 Duty Cycle:

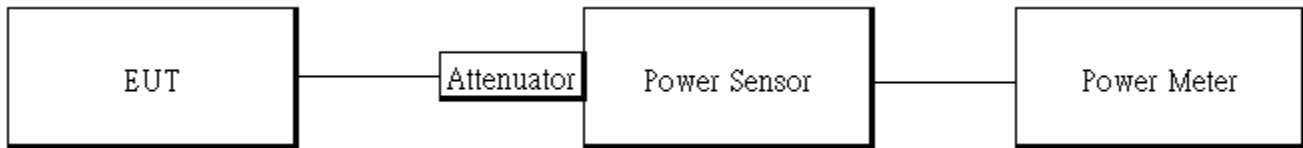


1. Place the EUT on the table and set it in transmitting mode.
2. Set the spectrum analyzer as
Center Frequency = fundamental frequency
RBW = 8MHz,
VBW = 8MHz,
Detector = Peak
span = Zero
3. Allow trace to fully stabilize.
4. Use the delta marker function to determine the ON and OFF times.

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6.2.2 Maximum Output Power



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 power meter. The Power Meter is used as the auxiliary test equipment to conduct the output power measurement.
3. Record the max. Reading as observed from Spectrum or Power Meter.
4. 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.
5. The directional gain is calculated using the formula

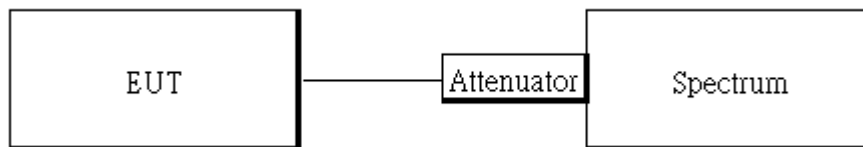
$$\text{Directional gain} = 10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}]$$

*** Note: The duty cycle factor is compensated to obtain the maximum value of measurement in average.**

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6.3 Maximum Power Spectral Density



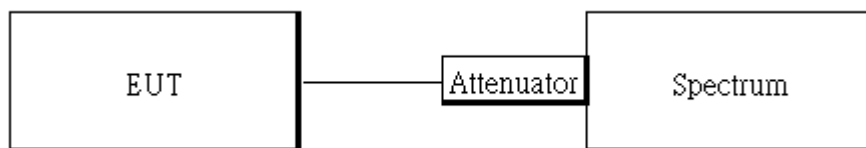
1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span > 1.5 times the DTS channel bandwidth.
3. Set the RBW = 3 kHz & VBW = 10 kHz.
4. Detector = peak
5. Sweep time = auto couple.
6. Trace mode = max hold
7. Allow trace to fully stabilize.
8. Use the peak marker function to determine the maximum amplitude level.
9. 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.
10. The directional gain is calculated using the formula

$$\text{Directional gain} = 10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}]$$

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6.4 Out of Band Emission



6.4.1 Reference Level of Emission Limit:

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. Set the RBW = 100kHz & VBW = 300 kHz.
4. Detector = peak
5. Sweep time = auto couple.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.
8. Use the peak marker function to determine the maximum amplitude level.

6.4.2 Conducted Band Edge:

1. To connect Antenna Port of EUT to Spectrum.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set start to edge frequency, and stop frequency of spectrum analyzer so as to encompass the spectrum to be examined.
4. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Detector = Peak, Sweep = auto
5. Mark the highest reading of the emission as the reference level measurement.
6. Set DL as the limit = reading on marker of reference level measurement -20 dBm
7. Mark the highest readings of the emissions outside of 2400MHz~2483.5MHz.
8. Repeat above procedures until all default test channel (low, middle, and high) was complete.

6.4.3 Conducted Spurious Emission:

1. To connect Antenna Port of EUT to Spectrum
2. Set RBW = 100 kHz & VBW= 300 kHz, Detector =Peak, Sweep = Auto.
3. Allow trace to fully stabilize.
4. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
5. Repeat above procedures until all default test channel measured were complete.

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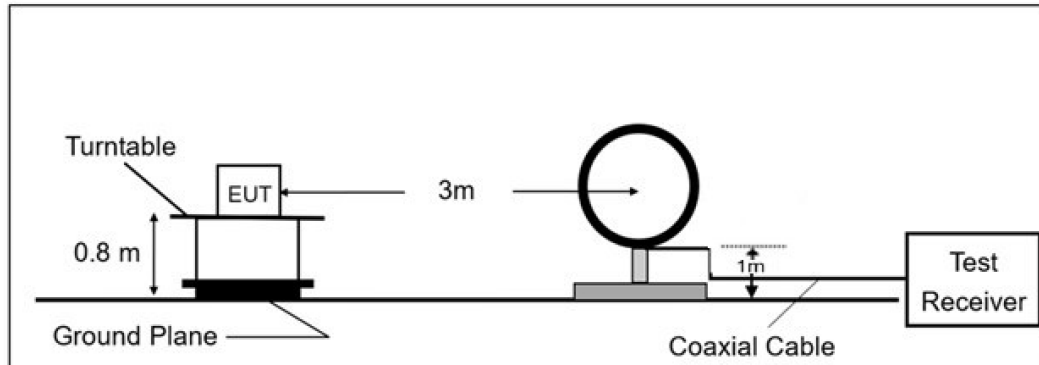
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6.5 Unwanted Emissions

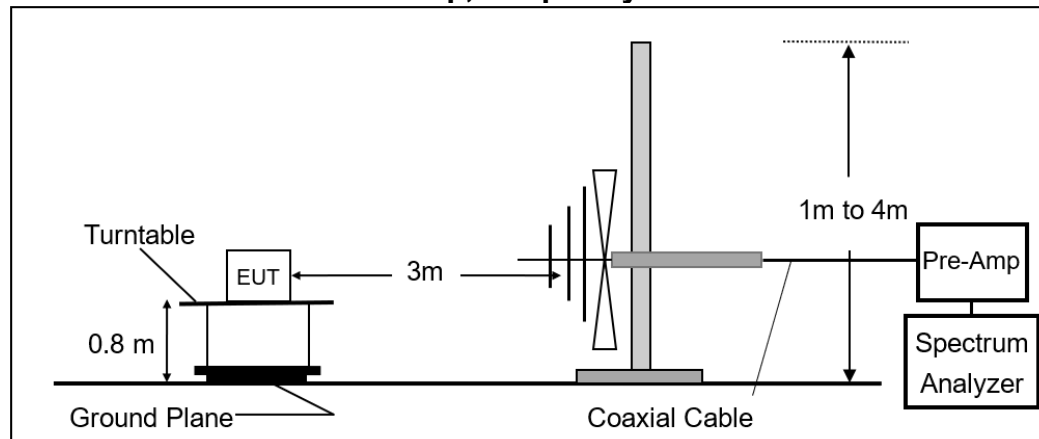
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

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

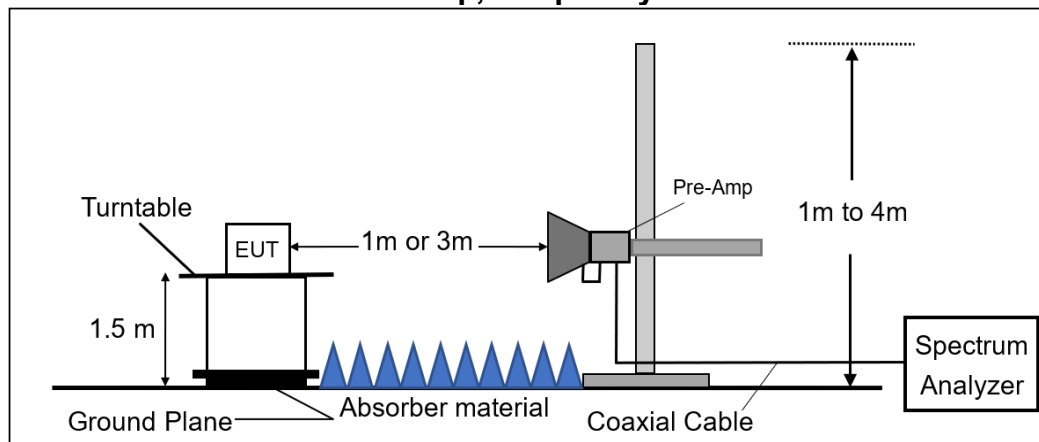
Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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1. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
2. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
4. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz.
5. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.
6. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz, Detector= Peak for Maximum Emission Measurements at frequency above 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz, Detector= RMS correction factor is $[10 \log (1 / D)]$ for Average Emission measurements at frequency above 1 GHz **when $D \geq 98\%$** . If a specific emission is demonstrated to be continuous ($D \geq 98\%$) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission, where D is the duty cycle.
8. Set the spectrum analyzer as RBW=1 MHz, VBW $\geq 1/T$, Detector= Peak **when $D < 98\%$** for Average Emission Measurements at frequency above 1 GHz.
9. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.
10. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
11. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
12. Repeat above procedures until all default test channel measured were complete.

Note: The emissions from 9 kHz to 30MHz was pre-scanned as 20dB lower than the limits and hence not reported.

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6.5.1 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

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

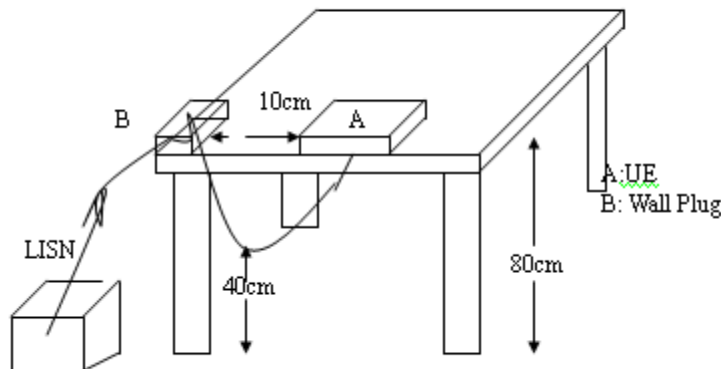
Where *FS* = Field Strength(dBμV/m) *CL* = Cable Attenuation Factor (Cable Loss) (dB)
RA = Reading Amplitude(dBμV) *AG* = Amplifier Gain (dB)
AF = Antenna Factor (dBμV/m)

The limit of the emission level is expressed in dBuV/m, which converts $20 \cdot \log(uV/m)$

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6.6 AC Power Line Conducted Emission



1. The conducted emission tests were performed at the designated test site using a setup in accordance with ANSI C63.10.
2. The EUT was placed on a non-conductive table that is 0.8 meters above the ground plane. Conducted emissions were measured in the frequency range from 0.15 MHz to 30 MHz using CISPR Quasi-Peak and Average detector modes. The two LISNs provided 50 μ H / 50 ohm coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
3. The AC/DC power adaptor of the EUT was connected to the LISN. The EUT was positioned flush with the rear edge of the table, with a minimum 0.4-meter distance from the shielding wall.
4. The LISNs were connected to the power source and configured according to the test requirements.
5. The maximum emission levels were investigated for each mode of operation. The six highest emissions were further maximized to ensure compliance.
6. The above procedures were repeated for all power supply configurations of the EUT.

Level = Read Level + Factor

Factor = (LISN, ISN, or current probe)Factor + Cable Loss +Attenuator

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7 TEST RESULTS

7.1 Emission Bandwidth

7.1.1 99% Bandwidth & 6dB BW measurements

802.11b_Ch0

Freq. (MHz)	99% BW (MHz)	6dB BW (kHz)	6dB BW Limit (kHz)	Result
2412	10.619	8193	≥ 500	PASS
2437	11.454	8223	≥ 500	PASS
2462	10.533	8191	≥ 500	PASS

802.11b_Ch1

Freq. (MHz)	99% BW (MHz)	6dB BW (kHz)	6dB BW Limit (kHz)	Result
2412	11.762	8223	≥ 500	PASS
2437	13.025	9188	≥ 500	PASS
2462	12.070	9154	≥ 500	PASS

802.11g_Ch0

Freq. (MHz)	99% BW (MHz)	6dB BW (kHz)	6dB BW Limit (kHz)	Result
2412	17.207	16510	≥ 500	PASS
2437	17.760	16520	≥ 500	PASS
2462	17.210	16500	≥ 500	PASS

802.11g_Ch1

Freq. (MHz)	99% BW (MHz)	6dB BW (kHz)	6dB BW Limit (kHz)	Result
2412	17.214	16530	≥ 500	PASS
2437	20.271	16570	≥ 500	PASS
2462	17.179	16550	≥ 500	PASS

802.11n_HT20_Ch0

Freq. (MHz)	99% BW (MHz)	6dB BW (kHz)	6dB BW Limit (kHz)	Result
2412	18.263	17790	≥ 500	PASS
2437	18.501	17750	≥ 500	PASS
2462	18.240	17750	≥ 500	PASS

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802.11n_HT20_Ch1

Freq. (MHz)	99% BW (MHz)	6dB BW (kHz)	6dB BW Limit (kHz)	Result
2412	18.072	17780	≥ 500	PASS
2437	20.880	17800	≥ 500	PASS
2462	18.084	17770	≥ 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	100.00	0.00	0.00	0.01
802.11g	98.56	0.06	0.49	0.01
802.11n_20	98.15	0.08	0.94	0.01

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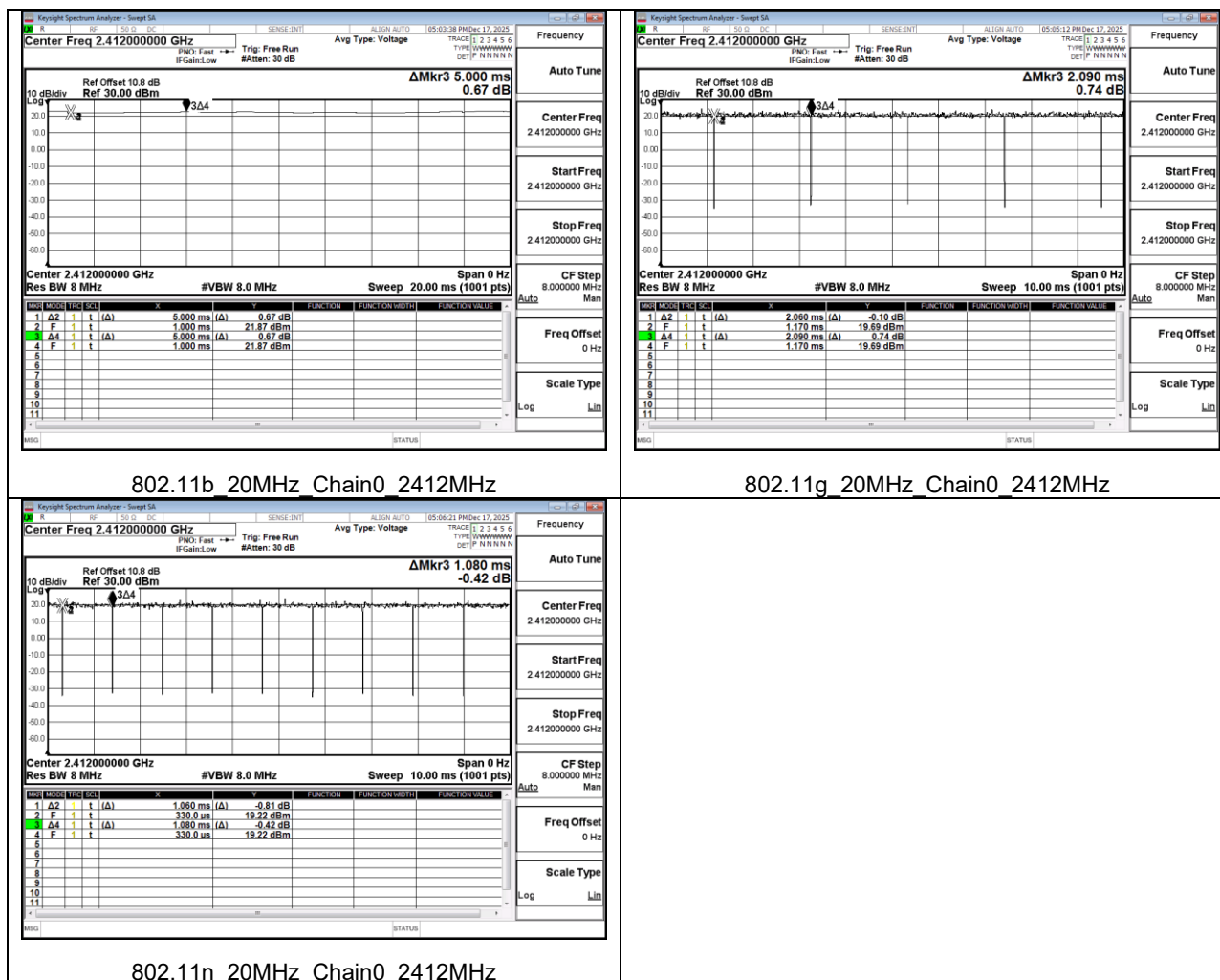
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7.2.1 Duty Cycle test plots



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7.3 Maximum Output Power

802.11b_Ch0							
CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	default	125.03	20.97	30.00	PASS
2	2417	1	default	182.81	22.62	30.00	PASS
6	2437	1	default	186.64	22.71	30.00	PASS
10	2457	1	default	175.79	22.45	30.00	PASS
11	2462	1	default	135.21	21.31	30.00	PASS
802.11b_Ch0							
CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	default	61.52	17.89	30.00	PASS
2	2417	1	default	90.99	19.59	30.00	PASS
6	2437	1	default	96.61	19.85	30.00	PASS
10	2457	1	default	88.10	19.45	30.00	PASS
11	2462	1	default	66.07	18.20	30.00	PASS
802.11b_Ch1							
CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	default	136.14	21.34	30.00	PASS
2	2417	1	default	185.35	22.68	30.00	PASS
6	2437	1	default	199.99	23.01	30.00	PASS
10	2457	1	default	176.60	22.47	30.00	PASS
11	2462	1	default	147.57	21.69	30.00	PASS
802.11b_Ch1							
CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	default	62.37	17.95	30.00	PASS
2	2417	1	default	91.62	19.62	30.00	PASS
6	2437	1	default	98.86	19.95	30.00	PASS
10	2457	1	default	88.31	19.46	30.00	PASS
11	2462	1	default	66.53	18.23	30.00	PASS

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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				
1	2412	1	default	20.49	21.57	255.49	24.07	30.00	PASS
2	2417	1	default	21.47	23.15	346.82	25.40	30.00	PASS
6	2437	1	default	21.68	23.31	361.52	25.58	30.00	PASS
10	2457	1	default	21.05	22.61	309.74	24.91	30.00	PASS
11	2462	1	default	20.66	22.05	276.74	24.42	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				
1	2412	1	default	17.60	18.45	127.53	21.06	30.00	PASS
2	2417	1	default	18.78	20.54	188.75	22.76	30.00	PASS
6	2437	1	default	18.71	20.92	197.90	22.96	30.00	PASS
10	2457	1	default	18.29	20.45	178.37	22.51	30.00	PASS
11	2462	1	default	17.74	18.89	136.88	21.36	30.00	PASS

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802.11g_Ch0

CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	default	101.16	20.05	30.00	PASS
2	2417	6	default	139.64	21.45	30.00	PASS
3	2422	6	default	160.69	22.06	30.00	PASS
4	2427	6	default	173.38	22.39	30.00	PASS
5	2432	6	default	199.53	23.00	30.00	PASS
6	2437	6	default	206.06	23.14	30.00	PASS
7	2442	6	default	186.64	22.71	30.00	PASS
8	2447	6	default	171.40	22.34	30.00	PASS
9	2452	6	default	158.85	22.01	30.00	PASS
10	2457	6	default	149.97	21.76	30.00	PASS
11	2462	6	default	127.06	21.04	30.00	PASS

802.11g_Ch0

CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	default	20.10	13.03	30.00	PASS
2	2417	6	default	28.73	14.58	30.00	PASS
3	2422	6	default	37.01	15.68	30.00	PASS
4	2427	6	default	44.19	16.45	30.00	PASS
5	2432	6	default	69.39	18.41	30.00	PASS
6	2437	6	default	71.66	18.55	30.00	PASS
7	2442	6	default	61.14	17.86	30.00	PASS
8	2447	6	default	46.91	16.71	30.00	PASS
9	2452	6	default	32.91	15.17	30.00	PASS
10	2457	6	default	29.67	14.72	30.00	PASS
11	2462	6	default	24.23	13.84	30.00	PASS

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802.11g_Ch1							
CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	default	107.65	20.32	30.00	PASS
2	2417	6	default	154.88	21.90	30.00	PASS
3	2422	6	default	172.19	22.36	30.00	PASS
4	2427	6	default	188.80	22.76	30.00	PASS
5	2432	6	default	224.39	23.51	30.00	PASS
6	2437	6	default	236.59	23.74	30.00	PASS
7	2442	6	default	189.67	22.78	30.00	PASS
8	2447	6	default	172.58	22.37	30.00	PASS
9	2452	6	default	167.49	22.24	30.00	PASS
10	2457	6	default	160.32	22.05	30.00	PASS
11	2462	6	default	130.32	21.15	30.00	PASS
802.11g_Ch1							
CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	default	20.24	13.06	30.00	PASS
2	2417	6	default	29.26	14.66	30.00	PASS
3	2422	6	default	37.18	15.70	30.00	PASS
4	2427	6	default	44.91	16.52	30.00	PASS
5	2432	6	default	88.98	19.49	30.00	PASS
6	2437	6	default	93.17	19.69	30.00	PASS
7	2442	6	default	61.42	17.88	30.00	PASS
8	2447	6	default	47.13	16.73	30.00	PASS
9	2452	6	default	33.21	15.21	30.00	PASS
10	2457	6	default	29.94	14.76	30.00	PASS
11	2462	6	default	24.45	13.88	30.00	PASS

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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				
1	2412	6	default	19.76	21.32	230.14	23.62	30.00	PASS
2	2417	6	default	21.19	22.04	291.48	24.65	30.00	PASS
3	2422	6	default	21.78	22.56	330.96	25.20	30.00	PASS
4	2427	6	default	21.99	22.84	350.43	25.45	30.00	PASS
5	2432	6	default	22.48	23.76	414.69	26.18	30.00	PASS
6	2437	6	default	22.64	23.92	430.26	26.34	30.00	PASS
7	2442	6	default	22.06	22.83	352.56	25.47	30.00	PASS
8	2447	6	default	21.87	22.54	333.29	25.23	30.00	PASS
9	2452	6	default	21.55	22.31	313.11	24.96	30.00	PASS
10	2457	6	default	21.36	22.11	299.33	24.76	30.00	PASS
11	2462	6	default	20.46	21.85	264.28	24.22	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				
1	2412	6	default	12.47	13.82	41.79	16.21	30.00	PASS
2	2417	6	default	13.90	15.33	58.71	17.69	30.00	PASS
3	2422	6	default	15.00	16.52	76.55	18.84	30.00	PASS
4	2427	6	default	16.05	17.01	90.57	19.57	30.00	PASS
5	2432	6	default	17.90	20.67	178.46	22.52	30.00	PASS
6	2437	6	default	18.10	20.89	187.44	22.73	30.00	PASS
7	2442	6	default	17.79	18.14	125.37	20.98	30.00	PASS
8	2447	6	default	16.29	17.21	95.23	19.79	30.00	PASS
9	2452	6	default	14.52	15.87	67.00	18.26	30.00	PASS
10	2457	6	default	14.11	15.38	60.32	17.80	30.00	PASS
11	2462	6	default	13.29	14.63	50.41	17.02	30.00	PASS

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802.11n_HT20_Ch0

CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	default	59.43	17.74	30.00	PASS
2	2417	MCS0	default	162.93	22.12	30.00	PASS
3	2422	MCS0	default	190.99	22.81	30.00	PASS
6	2437	MCS0	default	211.84	23.26	30.00	PASS
8	2447	MCS0	default	187.93	22.74	30.00	PASS
9	2452	MCS0	default	183.65	22.64	30.00	PASS
10	2457	MCS0	default	159.59	22.03	30.00	PASS
11	2462	MCS0	default	62.37	17.95	30.00	PASS

802.11n_HT20_Ch0

CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	default	12.62	11.01	30.00	PASS
2	2417	MCS0	default	39.09	15.92	30.00	PASS
3	2422	MCS0	default	66.24	18.21	30.00	PASS
6	2437	MCS0	default	72.46	18.60	30.00	PASS
8	2447	MCS0	default	65.48	18.16	30.00	PASS
9	2452	MCS0	default	49.33	16.93	30.00	PASS
10	2457	MCS0	default	36.23	15.59	30.00	PASS
11	2462	MCS0	default	13.10	11.17	30.00	PASS

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802.11n_HT20_Ch1

CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	default	60.12	17.79	30.00	PASS
2	2417	MCS0	default	176.60	22.47	30.00	PASS
3	2422	MCS0	default	215.77	23.34	30.00	PASS
6	2437	MCS0	default	224.91	23.52	30.00	PASS
8	2447	MCS0	default	211.84	23.26	30.00	PASS
9	2452	MCS0	default	191.43	22.82	30.00	PASS
10	2457	MCS0	default	167.11	22.23	30.00	PASS
11	2462	MCS0	default	68.08	18.33	30.00	PASS

802.11n_HT20_Ch1

CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	default	12.77	11.06	30.00	PASS
2	2417	MCS0	default	39.73	15.99	30.00	PASS
3	2422	MCS0	default	67.47	18.29	30.00	PASS
6	2437	MCS0	default	73.13	18.64	30.00	PASS
8	2447	MCS0	default	66.85	18.25	30.00	PASS
9	2452	MCS0	default	49.90	16.98	30.00	PASS
10	2457	MCS0	default	36.65	15.64	30.00	PASS
11	2462	MCS0	default	13.31	11.24	30.00	PASS

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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				
1	2412	MCS0	default	17.48	18.65	129.26	21.11	30.00	PASS
2	2417	MCS0	default	21.12	21.90	284.30	24.54	30.00	PASS
3	2422	MCS0	default	21.62	23.14	351.27	25.46	30.00	PASS
6	2437	MCS0	default	21.99	23.41	377.41	25.77	30.00	PASS
8	2447	MCS0	default	21.55	23.08	346.13	25.39	30.00	PASS
9	2452	MCS0	default	21.47	22.33	311.28	24.93	30.00	PASS
10	2457	MCS0	default	20.99	21.57	269.15	24.30	30.00	PASS
11	2462	MCS0	default	17.64	18.70	132.21	21.21	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				
1	2412	MCS0	default	10.42	11.68	25.75	14.11	30.00	PASS
2	2417	MCS0	default	15.50	16.54	80.58	19.06	30.00	PASS
3	2422	MCS0	default	17.00	19.33	135.86	21.33	30.00	PASS
6	2437	MCS0	default	17.30	19.72	147.50	21.69	30.00	PASS
8	2447	MCS0	default	16.95	19.31	134.89	21.30	30.00	PASS
9	2452	MCS0	default	16.63	17.49	102.16	20.09	30.00	PASS
10	2457	MCS0	default	15.16	16.26	75.10	18.76	30.00	PASS
11	2462	MCS0	default	10.72	11.86	27.16	14.34	30.00	PASS

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7.4 Maximum Power Spectral Density

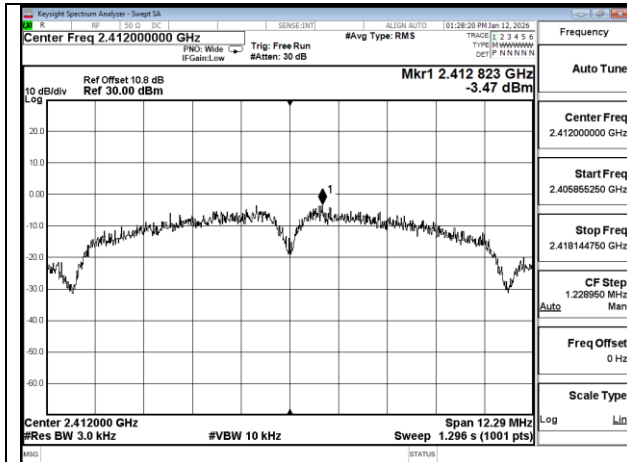
POWER DENSITY 802.11b MODE					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-3.47	-4.47	-0.93	8.00	PASS
2437	-4.44	-1.74	0.13	8.00	PASS
2462	-4.57	-4.2	-1.37	8.00	PASS

POWER DENSITY 802.11g MODE					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-12.57	-11.09	-8.76	8.00	PASS
2437	-7.67	-6.08	-3.79	8.00	PASS
2462	-11.23	-10.6	-7.89	8.00	PASS

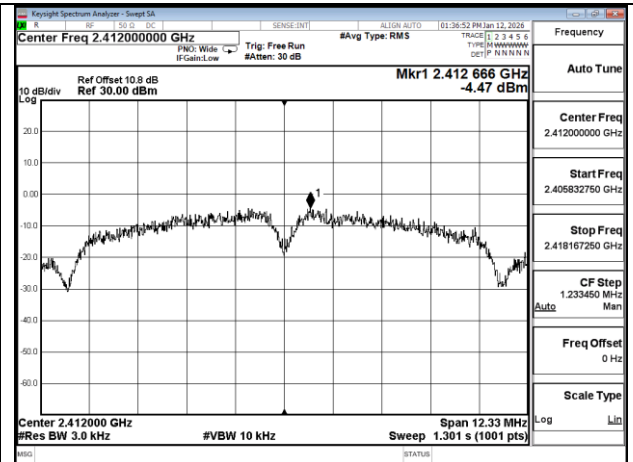
POWER DENSITY 802.11n HT20 MODE					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-14.77	-13.39	-11.02	8.00	PASS
2437	-9.57	-6.36	-4.66	8.00	PASS
2462	-13.75	-13.18	-10.45	8.00	PASS

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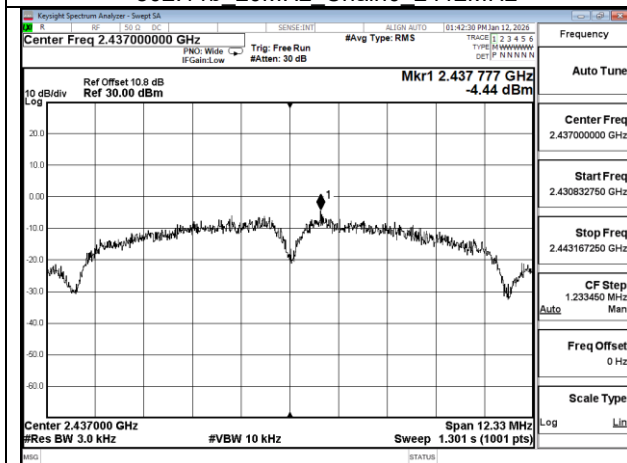
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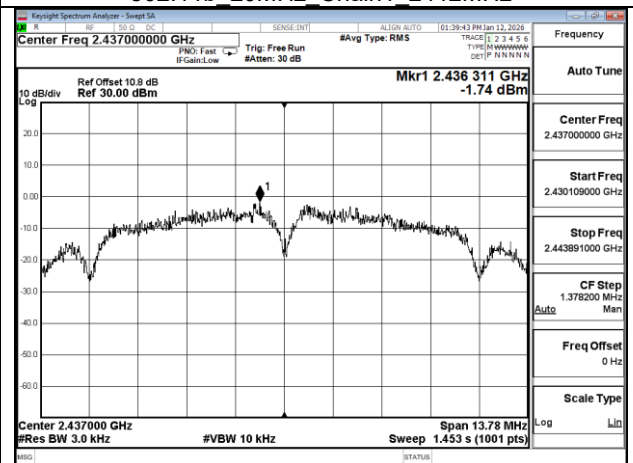
802.11b 20MHz Chain0 2412MHz



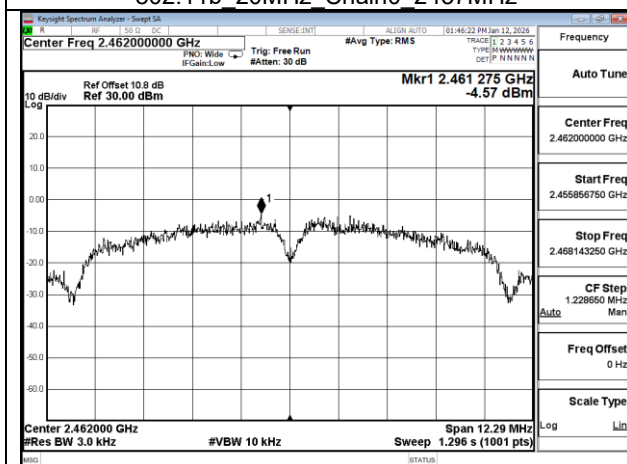
802.11b 20MHz Chain1 2412MHz



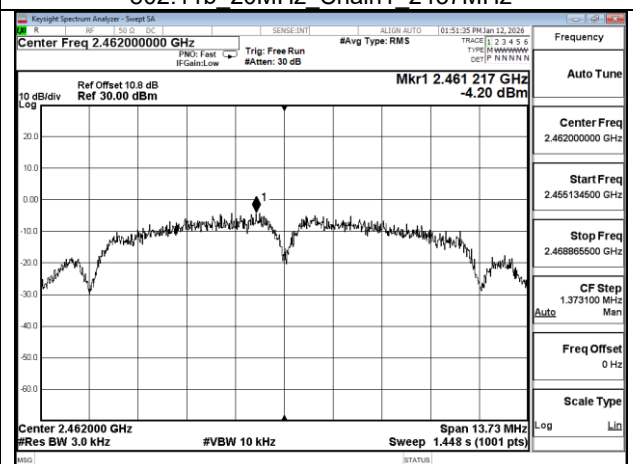
802.11b 20MHz Chain0 2437MHz



802.11b 20MHz Chain1 2437MHz



802.11b 20MHz Chain0 2462MHz

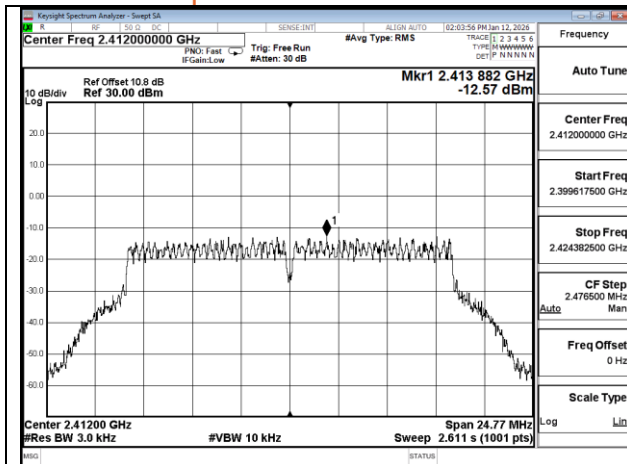


802.11b 20MHz Chain1 2462MHz

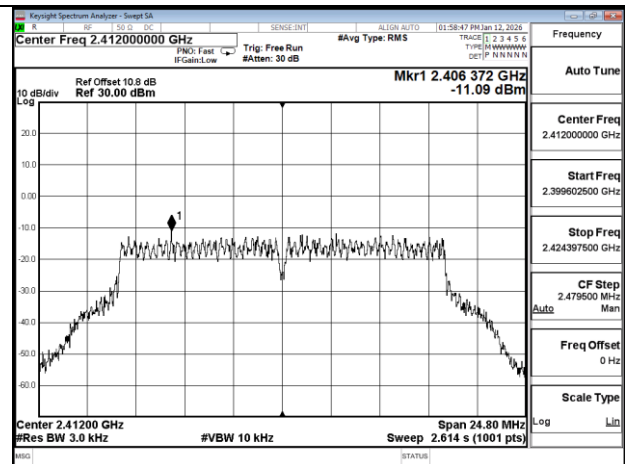
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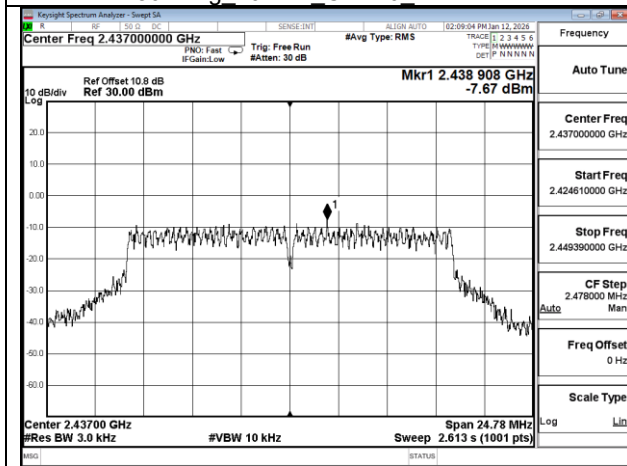
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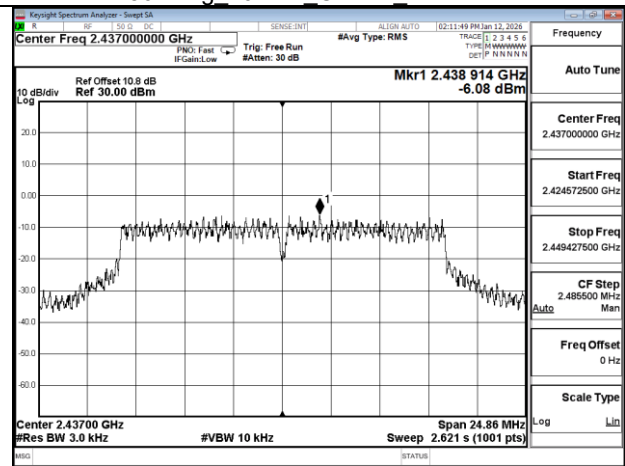
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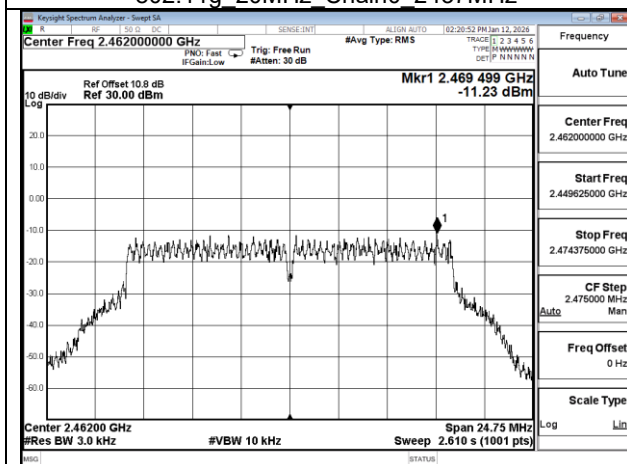
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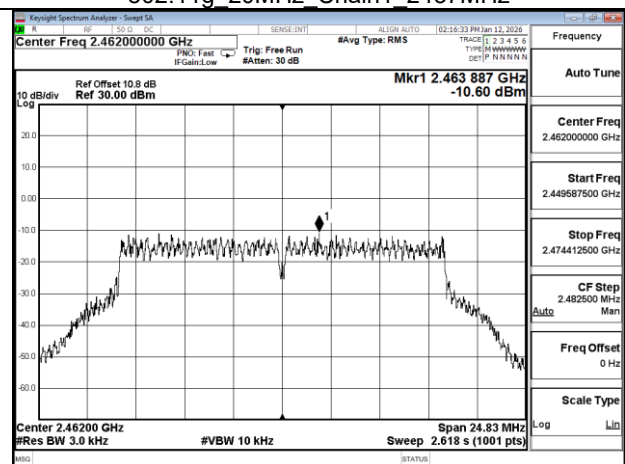
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802.11g 20MHz Chain1 2437MHz



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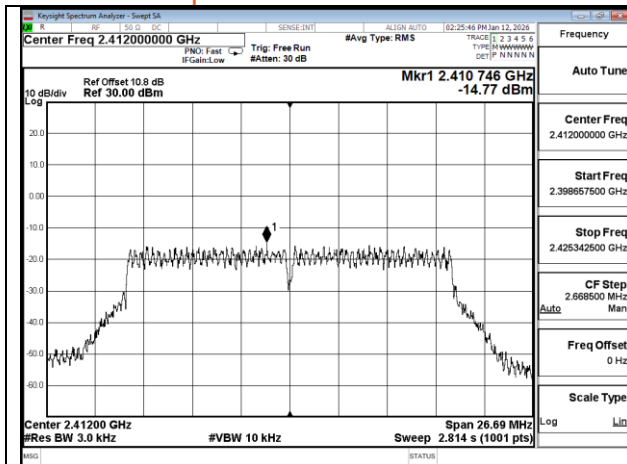


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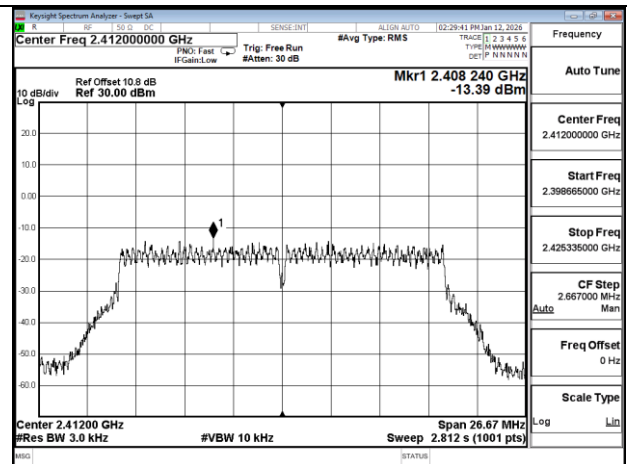
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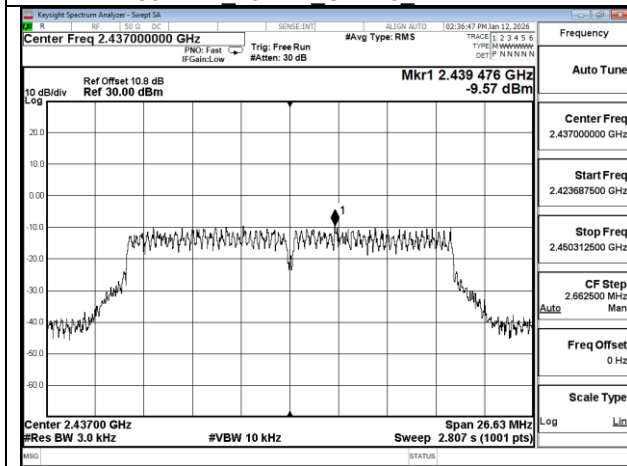
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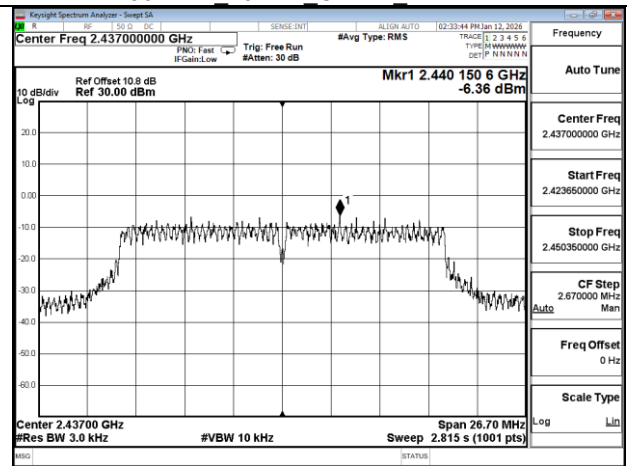
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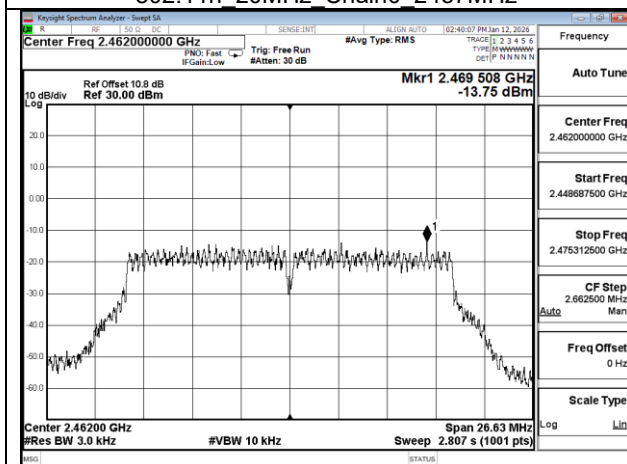
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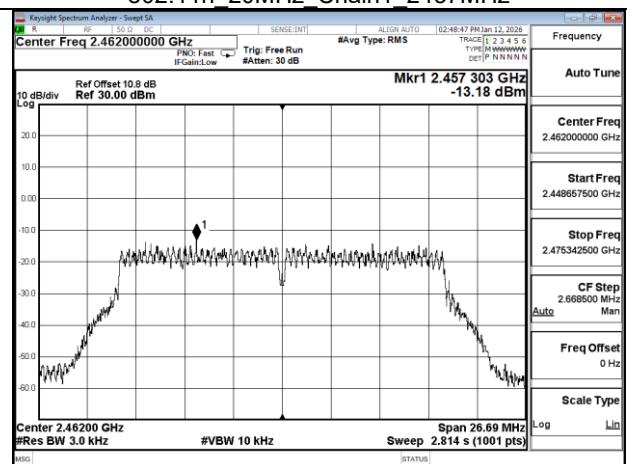
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802.11n 20MHz Chain1 2437MHz



802.11n 20MHz Chain0 2462MHz



802.11n 20MHz Chain1 2462MHz

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7.5 Out of Band Emission

802.11b_Ch0

Reference Level of Limit		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	10.13	-9.87
2437	8.72	-11.28
2462	9.22	-10.78

802.11b_Ch1

Reference Level of Limit		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	10.45	-9.55
2437	12.14	-7.86
2462	10.24	-9.76

802.11g_Ch0

Reference Level of Limit		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	2.12	-17.88
2437	6.40	-13.60
2462	3.18	-16.82

802.11g_Ch1

Reference Level of Limit		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	2.72	-17.28
2437	8.94	-11.06
2462	3.35	-16.65

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802.11n_HT20_Ch0

Reference Level of Limit		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	0.34	-19.66
2437	5.98	-14.02
2462	0.35	-19.65

802.11n_HT20_Ch1

Reference Level of Limit		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	0.89	-19.11
2437	8.62	-11.38
2462	0.92	-19.08

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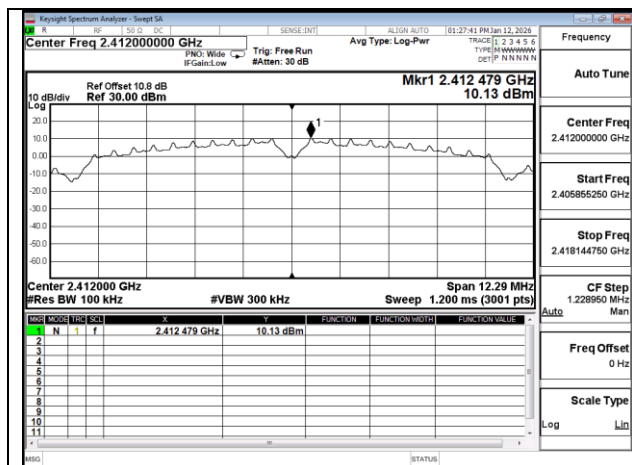
台灣檢驗科技股份有限公司

t (886-2) 2299-3279

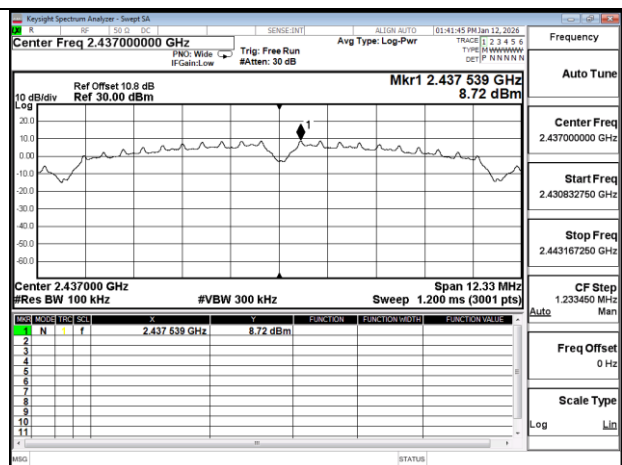
f (886-2) 2298-0488

www.sgs.com.tw

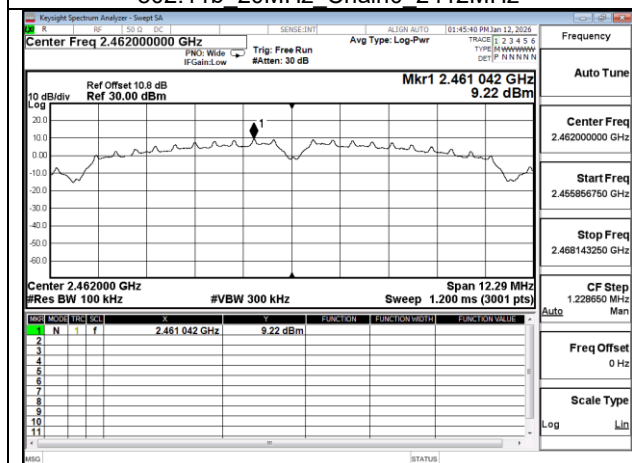
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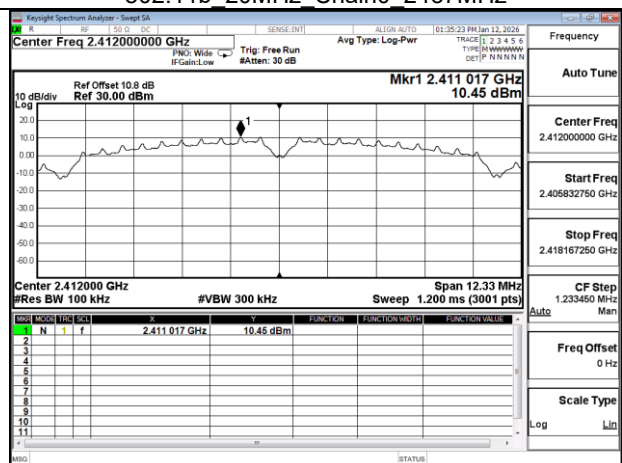
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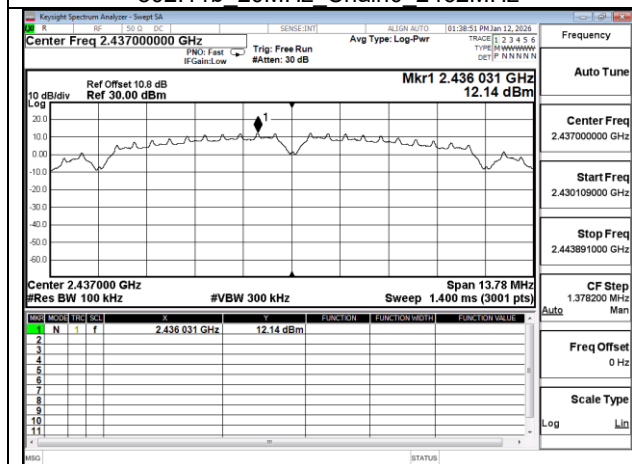
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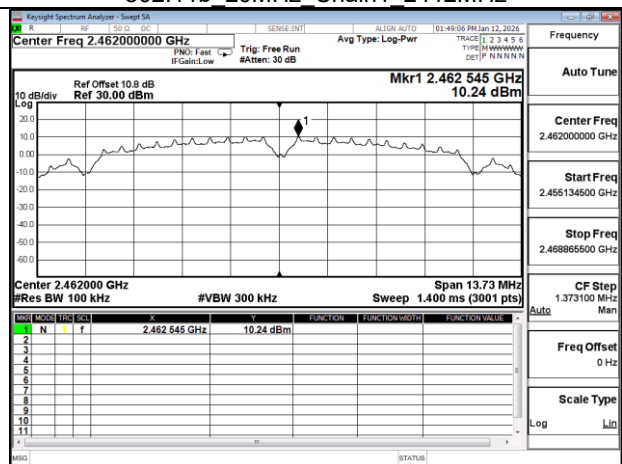
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802.11b 20MHz Chain0 2437MHz



802.11b 20MHz Chain1 2437MHz

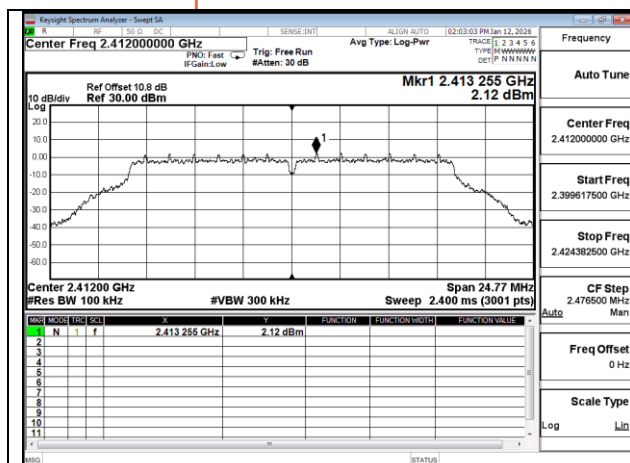


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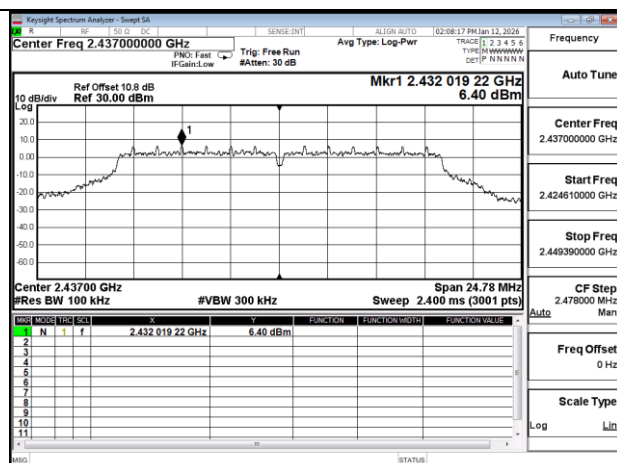
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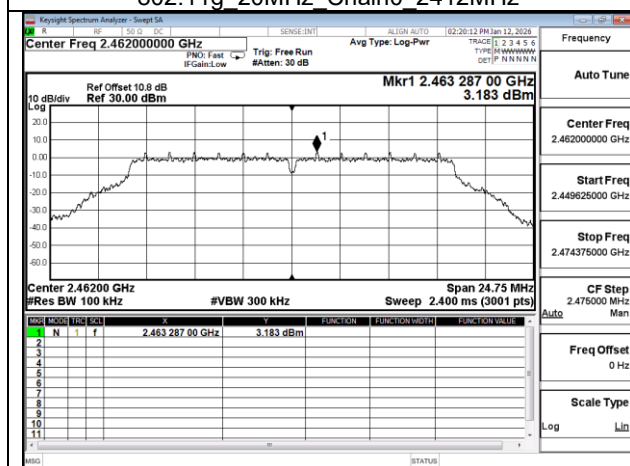
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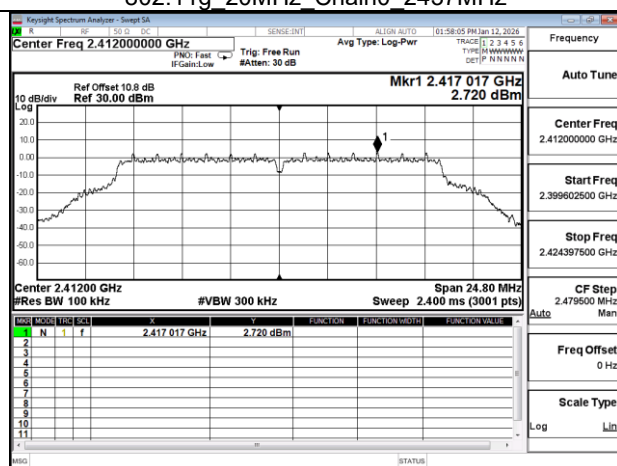
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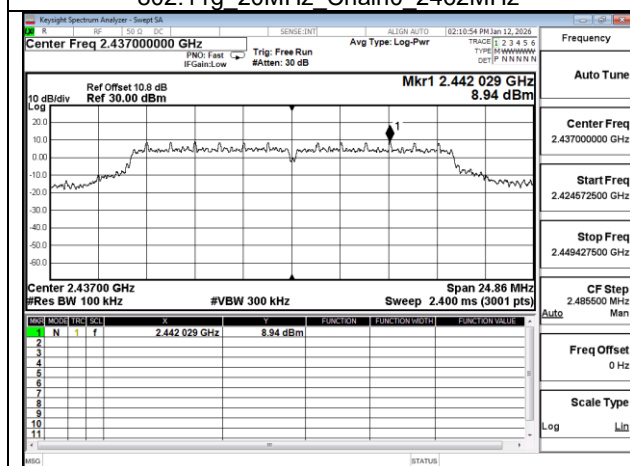
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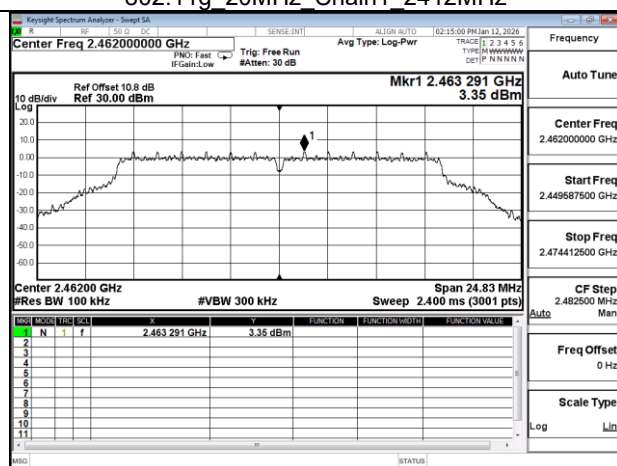
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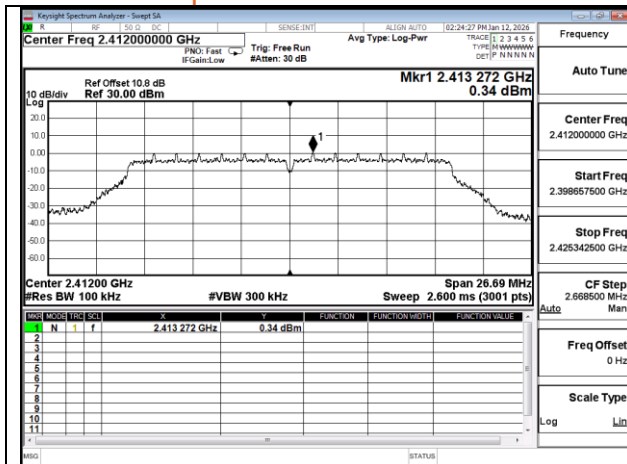


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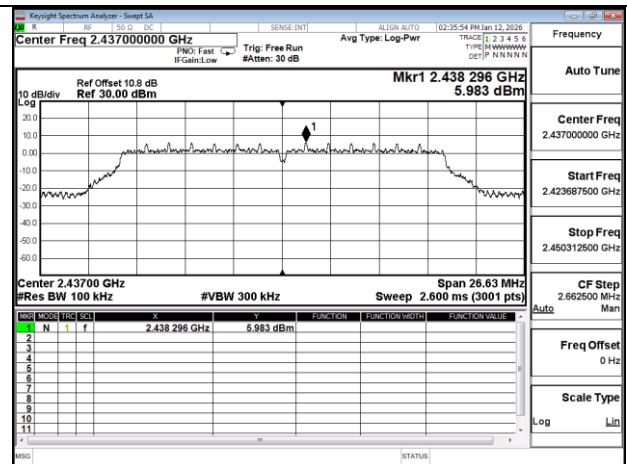
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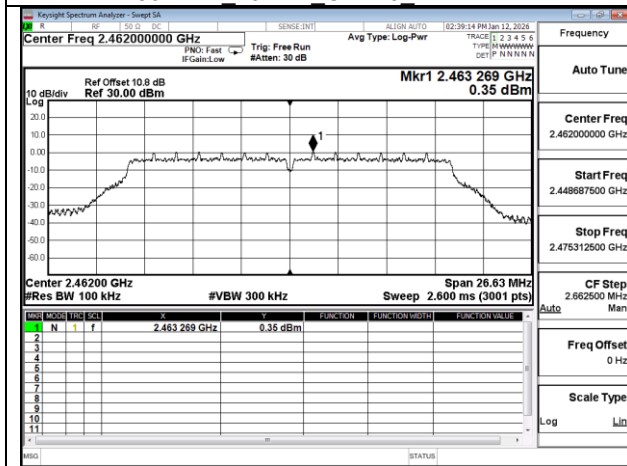
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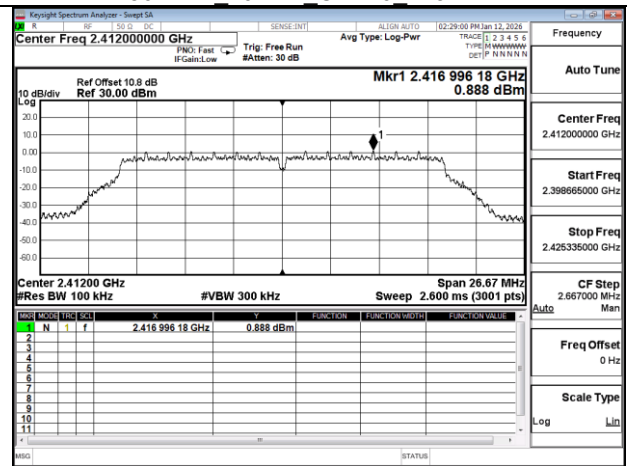
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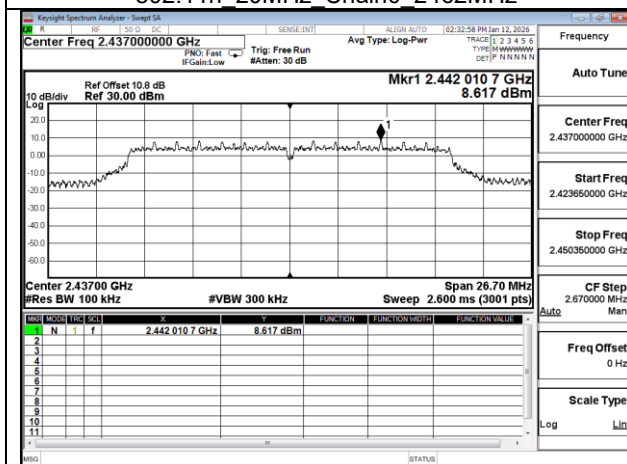
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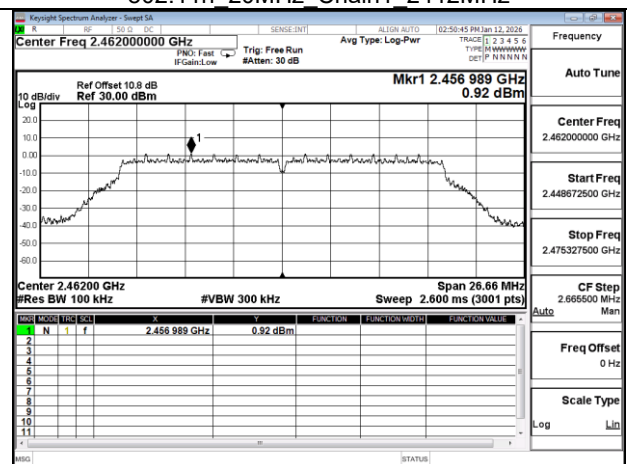
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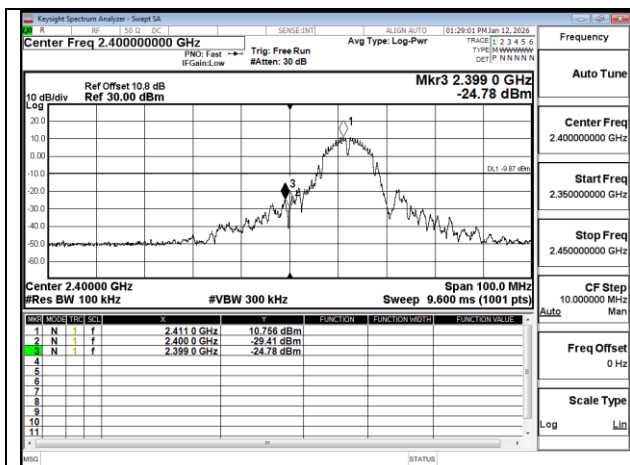


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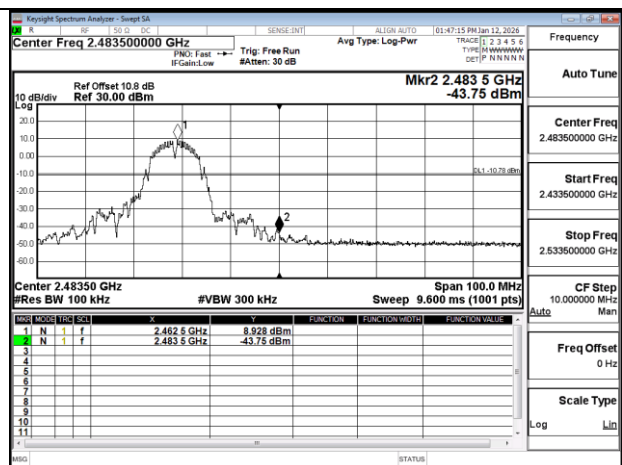
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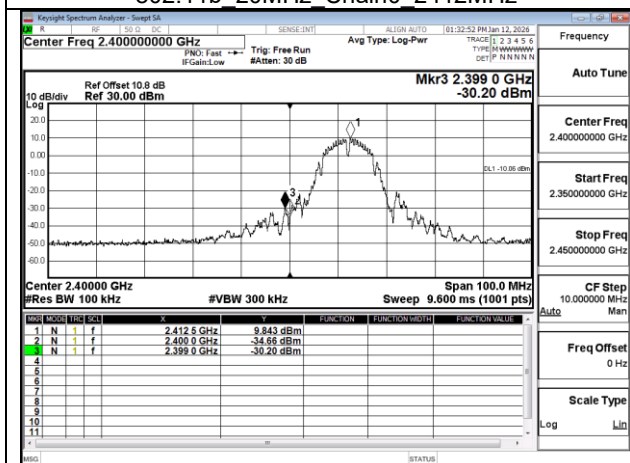
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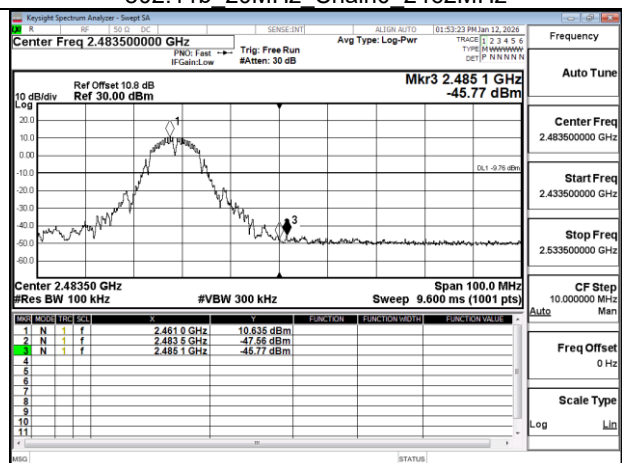
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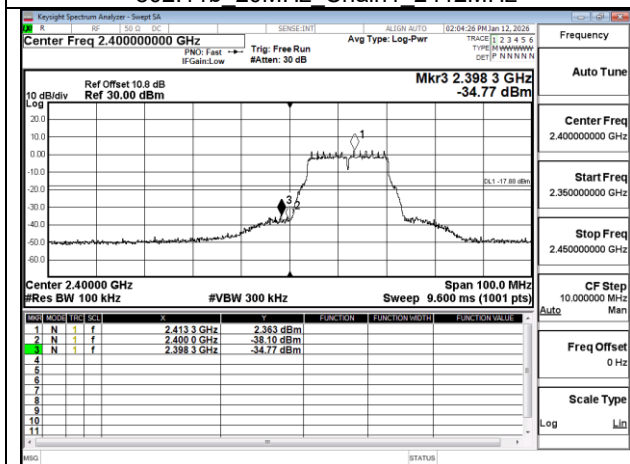
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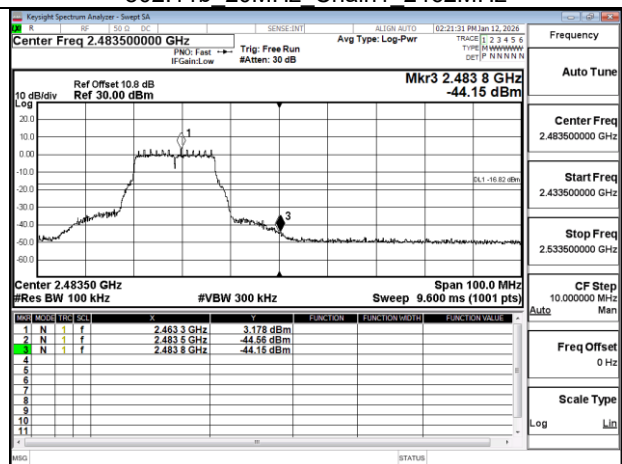
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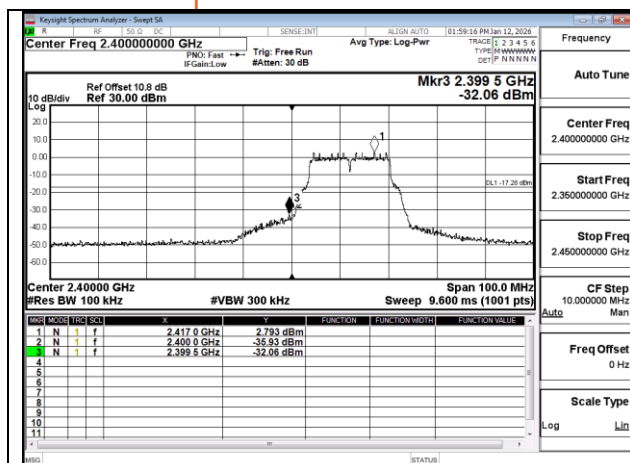


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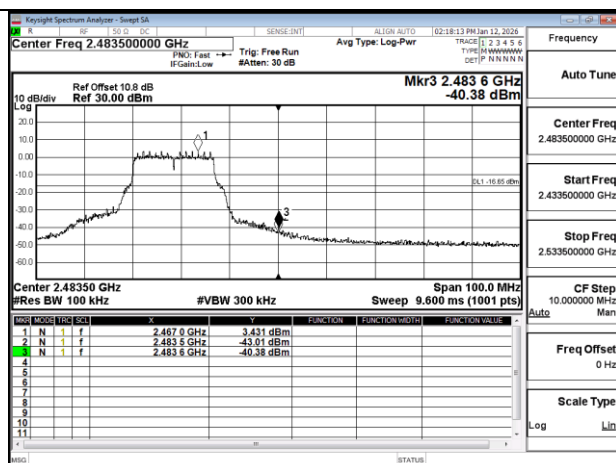
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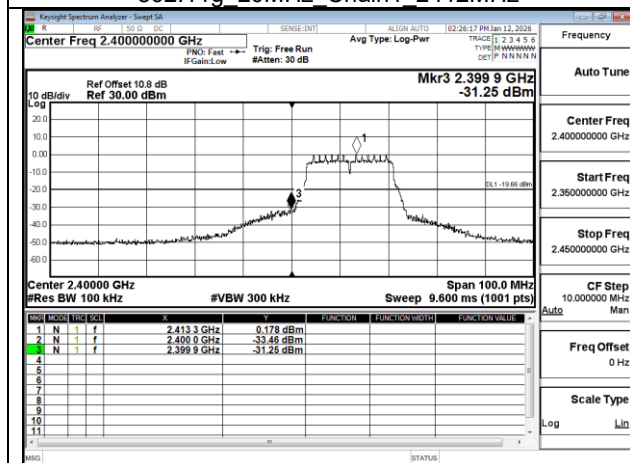
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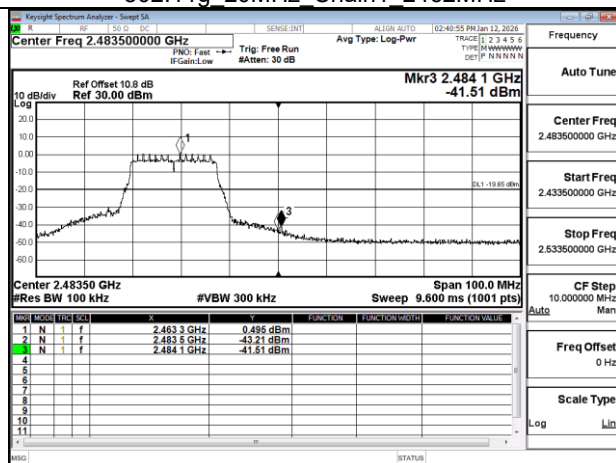
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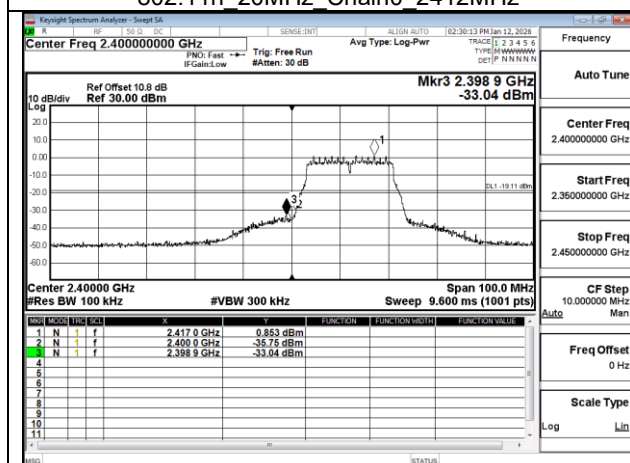
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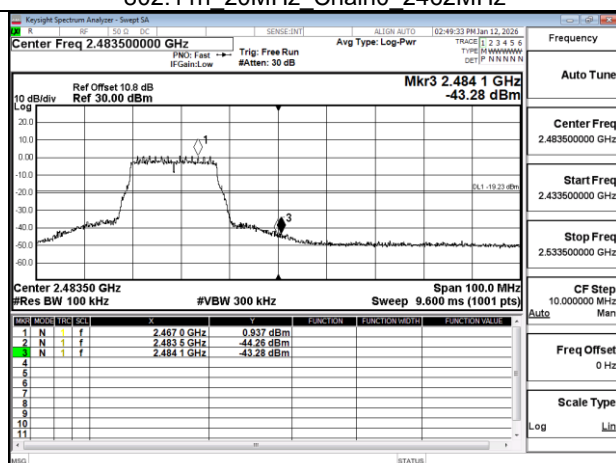
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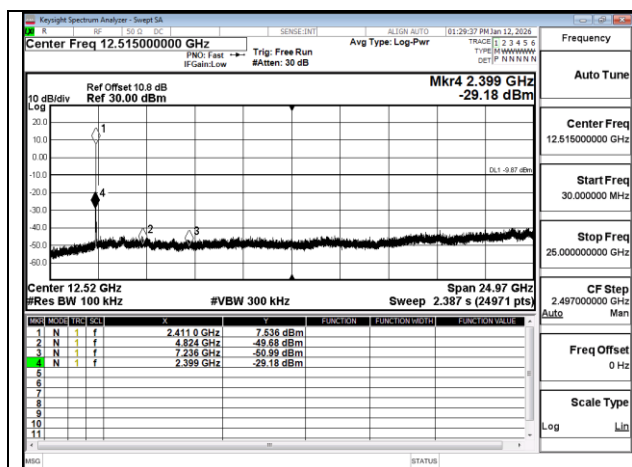


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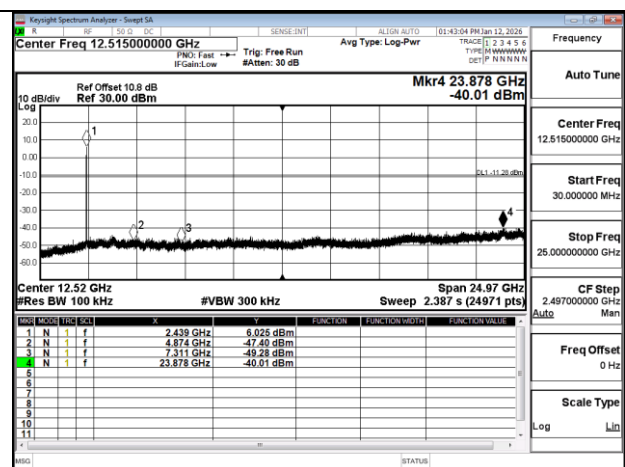
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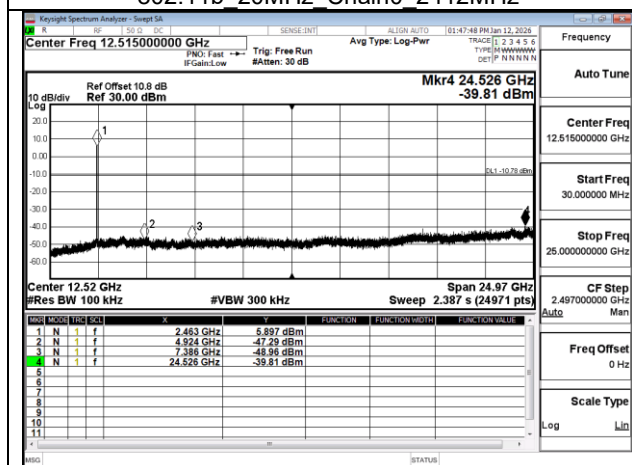
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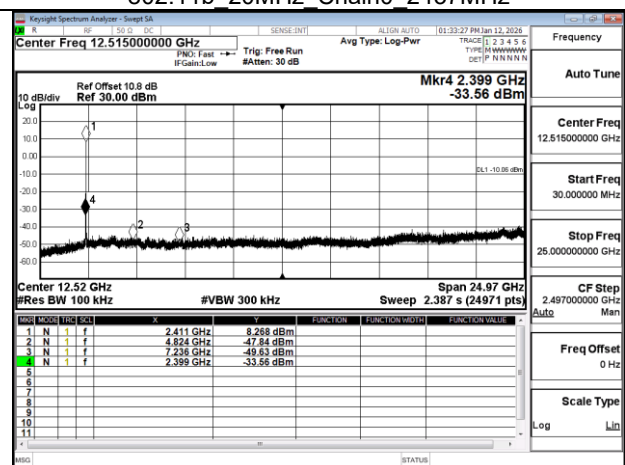
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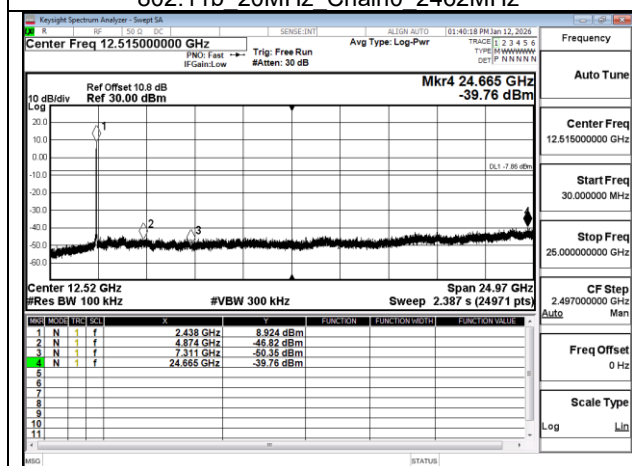
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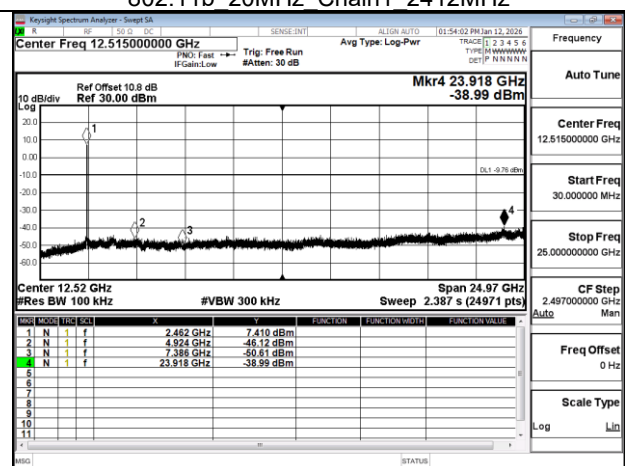
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802.11b 20MHz Chain1 2437MHz



802.11b 20MHz Chain1 2462MHz

Unless otherwise stated the results shown in this report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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