

CrunchLabs LLC

TEST REPORT

SCOPE OF WORK

FCC TESTING—CL-040027

REPORT NUMBER

SZHH02213937-006

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CrunchLabs LLC

Application
For
Certification

FCC ID: 2BMCV-CL-ESP32-C3

FERRO - Space Oddity

Model: CL-040027

2.4GHz Wi-Fi Transceiver

Report No.: SZHH02213937-006

We hereby certify that the sample of the above item is considered to comply with the requirements of FCC Part 15, Subpart C for Intentional Radiator, mention 47 CFR [10-1-25]

Prepared and Checked by:

Approved by:



Terry Tang
Assistant Supervisor



Johnny Wang
Project Engineer
Date: Sep 8, 2026

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Intertek Testing Services Shenzhen Ltd. Longhua Branch

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MEASUREMENT/TECHNICAL REPORT

This report concerns (check one) Original Grant ☒ Class II Change ☐

Equipment Type: DTS - Part 15 Digital Transmission Systems (Wi-Fi transmitter portion)

Deferred grant requested per 47 CFR 0.457(d)(1)(ii)? Yes ☐ No ☒

If yes, defer until: _____
date

Company Name agrees to notify the Commission by: _____
date

of the intended date of announcement of the product so that the grant can be issued on that date.

Transition Rules Request per 15.37? Yes ☐ No ☒

If no, assumed Part 15, Subpart C for intentional radiator - the new 47 CFR [10-01-25] Edition] provision.

Report prepared by:

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1.0 Summary of Test Results

Applicant: CrunchLabs LLC

Applicant Address: 649 Grape Ave Sunnyvale California United States

Manufacturer: CrunchLabs LLC

Manufacturer Address: 649 Grape Ave Sunnyvale California United States

Model: CL-040027

FCC ID: 2BMCV-CL-ESP32-C3

TEST ITEM	REFERENCE	RESULTS
Max. Output power	15.247(b)(3)	Pass
6 dB Bandwidth	15.247(a)(2)	Pass
Max. Power Spectral Density	15.247(e)	Pass
Out of Band Antenna Conducted Emission	15.247(d)	Pass
Radiated Emission in Restricted Bands	15.247(d), 15.209, FCC 15.205	Pass
AC Conducted Emission	15.207	Pass
Antenna Requirement	15.203	Pass (See Notes)

Notes: The EUT uses an Integral Antenna which in accordance to Section 15.203 is considered sufficient to comply with the provisions of this section.

2.0 General Description

2.1 Product Description

The Equipment Under Test (EUT) is a FERRO - Space Oddity with Wi-Fi function operating at 2412-2462MHz for 802.11b/g/n-HT20, 11 channels with 5MHz channel spacing and 2422-2452MHz for 802.11n-HT40, 7 channels with 5MHz channel spacing, and Bluetooth 5.0 (BLE single mode) function operating in 2402-2480MHz. The EUT is powered by DC 5.0V from USB port. For more detailed features description, please refer to the user's manual.

Type of Modulation: DSSS\CCK, DQPSK, OFDM

Antenna Type: Integral Antenna

Antenna Gain: 2.43dBi

Simultaneous transmissions for BT BLE and Wi-Fi 2.4GHz have been tested, but only the worst-case testing data were recorded in this report.

For electronic filing, the brief circuit description is saved with filename: descri.pdf.

2.2 Related Submittal(s) Grants

This is an application for certification of:

DTS- Part 15 Digital Transmission Systems (2.4GHz Wi-Fi transmitter portion).

Remaining portions are subject to the following procedures:

1. Receiver portion of Wi-Fi and Bluetooth: exempt from technical requirement of this Part.
2. The Bluetooth Function subject to FCC Part 15C report No. whit: SZHH02213937-007.
3. Other Digital Function: Subject to FCC Part 15B SDOC.

2.3 Test Methodology

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.10-2020+Cor. 1-2023 and KDB 558074 D01 v05r02. Radiated emission measurement was performed in semi-anechoic chamber. For radiated emission measurement, preliminary scans were performed in the semi-anechoic chamber only to determine the worst case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise in the "**Justification Section**" of this Application.

2.4 Test Facility

The Semi-anechoic chamber used to collect the radiated data is **Intertek Testing Services Shenzhen Ltd. Longhua Branch** and located at 101, 201, Building B, No. 308 Wuhe Avenue, Zhangkengjing Community, GuanHu Subdistrict, LongHua District, Shenzhen, P.R. China. This test facility and site measurement data have been fully placed on file with File Number: CN1188.

3.0**System Test Configuration****3.1 Justification**

For emissions testing, the equipment under test (EUT) setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, all cables were manipulated to produce worst case emissions. The EUT was powered by DC 5.0V from USB port during the test.

On 802.11b/g/n-HT20/n-HT40 mode, only one antenna is used, and all data rate were tested and only the worst case data is shown in the report.

For maximizing emissions, the EUT was rotated through 360°, the EUT was placed on the styrene turntable with 0.8m up to 1GHz and 1.5 m above 1GHz. The antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters. Radiated emissions are taken at three meters unless the signal level is too low for measurement at that distance. If necessary, a pre-amplifier is used and/or the test is conducted at a closer distance.

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance. Analyzer resolution is 100 kHz or greater for frequencies below 1000 MHz. The resolution is 1 MHz or greater for frequencies above 1000 MHz. The spurious emissions more than 20 dB below the permissible value are not reported.

The EUT and transmitting antenna was centered on the turntable.

Radiated emission measurement were performed the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

3.2 EUT Exercising Software

The EUT exercise program (provided by client) used during radiated and conducted testing was designed to exercise the various system components in a manner similar to a typical use. The worst case configuration is used in all specified testing.

The parameters of test software setting:

During the test, Channel and power controlling software provided by the applicant was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the application and is going to be fixed on the firmware of the end product.

Test software: EspRFTTestTool_v3.6

3.3 Special Accessories

N/A.

3.4 Measurement Uncertainty

When determining of the test conclusion, the Measurement Uncertainty of test has been considered.

3.5 Equipment Modification

Any modifications installed previous to testing by CrunchLabs LLC will be incorporated in each production model sold / leased in the United States.

No modifications were installed by Intertek Testing Services Shenzhen Ltd. Longhua Branch.

3.6 Support Equipment List and Description

Description	Manufacturer	Model No.
Laptop (Provided by Applicant)	Dell	M4800
USB Cable (Provided by Applicant)	N/A	Length with 150.0cm, Unshielded

Applicant: CrunchLabs LLC

Date of Test: Jul 31, 2026

Model: CL-040027

4.0 Measurement Results

4.1 Maximum Conducted Output Power at Antenna Terminals, FCC Rules 15.247(b)(3):

The antenna power of the EUT was connected to the input of a broadband peak RF power meter. The power meter has a video bandwidth that is greater than DTS bandwidth and utilize a fast-responding diode detector. Power was read directly at the EUT antenna terminals with cable loss added.

For antennas with gains of 6 dBi or less, maximum allowed Transmitter output is 1 watt (+30 dBm).

IEEE 802.11b (Antenna Gain = 2.43dBi) (CCK, 1Mbps)		
Frequency (MHz)	Output in dBm (Peak Reading)	Output in mWatt
Low Channel: 2412	18.1	64.6
Middle Channel: 2437	16.3	42.7
High Channel: 2462	14.1	25.7

IEEE 802.11g (Antenna Gain = 2.43dBi) (16QAM, 6Mbps)		
Frequency (MHz)	Output in dBm (Peak Reading)	Output in mWatt
Low Channel: 2412	18.4	69.2
Middle Channel: 2437	17.0	50.1
High Channel: 2462	15.1	32.4

IEEE 802.11n-HT20 (Antenna Gain = 2.43dBi) (64QAM, 6Mbps)		
Frequency (MHz)	Output in dBm (Peak Reading)	Output in mWatt
Low Channel: 2412	17.8	60.3
Middle Channel: 2437	16.1	40.7
High Channel: 2462	14.1	25.7

IEEE 802.11n-HT40 (Antenna Gain = 2.43dBi) (64QAM, 13.5Mbps)		
Frequency (MHz)	Output in dBm (Peak Reading)	Output in mWatt
Low Channel: 2422	16.3	42.7
Middle Channel: 2437	15.3	33.9
High Channel: 2452	14.7	29.5

Cable loss: 0.5 dB External Attenuation: 0 dB

Cable loss, external attenuation has been included in OFFSET function

EUT max. output level = 18.4dBm

EUT max. E.I.R.P = 18.4dBm + 2.43dBi = 20.83dBm = 121.1mW

Applicant: CrunchLabs LLC

Date of Test: Jul 31, 2026

Model: CL-040027

4.2 Minimum 6 dB RF Bandwidth, FCC Rule 15.247(a) (2):

The antenna port of the EUT was connected to the input of a spectrum analyzer. Analyzer RES BW was set to 100 KHz according to FCC KDB 558074 D01 v05r02. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. A PEAK output reading was taken, a DISPLAY line was drawn 6 dB lower than PEAK level. The 6dB bandwidth was determined from where the channel output spectrum intersected the display line.

Limit: The 6 dB Bandwidth is at least 500 kHz.

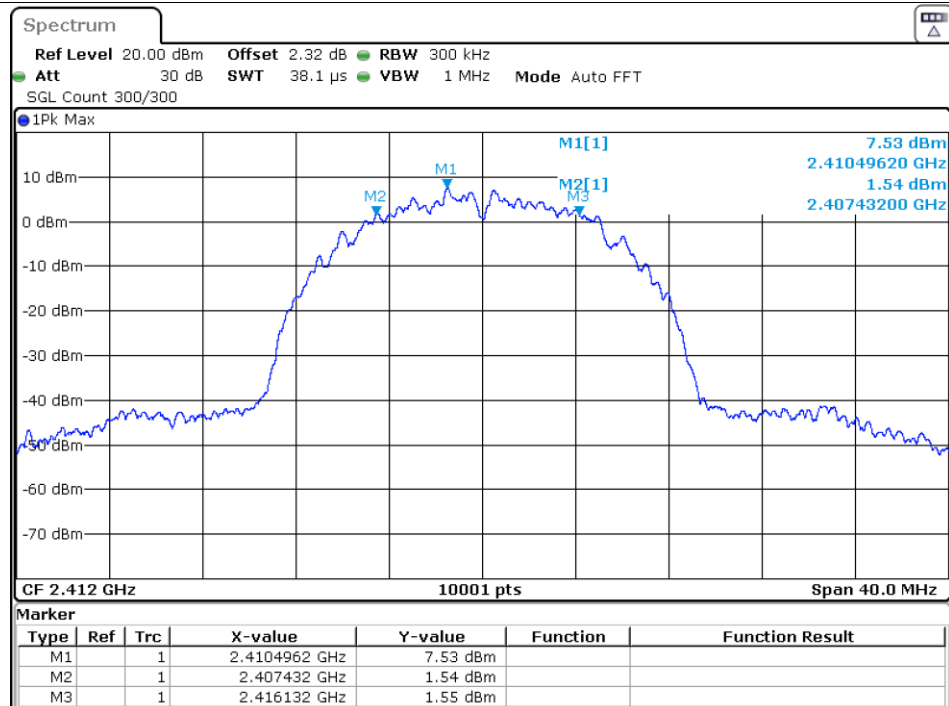
IEEE 802.11b (CCK, 1Mbps)	
Frequency (MHz)	6 dB Bandwidth (MHz)
2412	8.700
2437	9.144
2462	8.668

IEEE 802.11g (16QAM, 6Mbps)	
Frequency (MHz)	6 dB Bandwidth (MHz)
2412	16.484
2437	16.496
2462	16.468

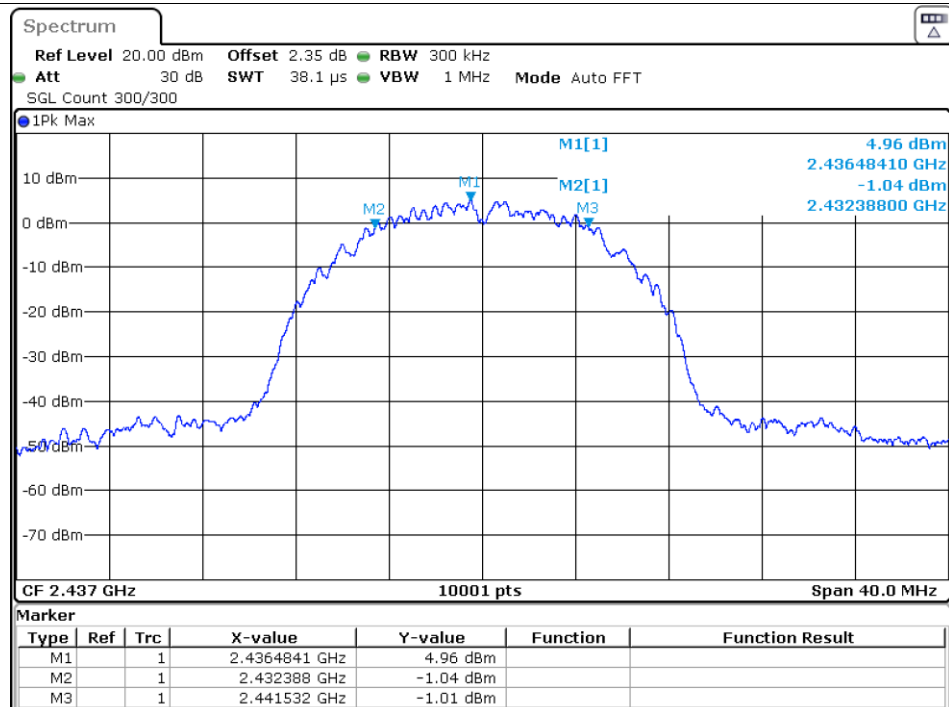
IEEE 802.11n-HT20 (64QAM, 6Mbps)	
Frequency (MHz)	6 dB Bandwidth (MHz)
2412	17.544
2437	17.548
2462	17.524

IEEE 802.11n-HT40 (64QAM, 13.5Mbps)	
Frequency (MHz)	6 dB Bandwidth (MHz)
2422	35.856
2437	35.800
2452	35.776

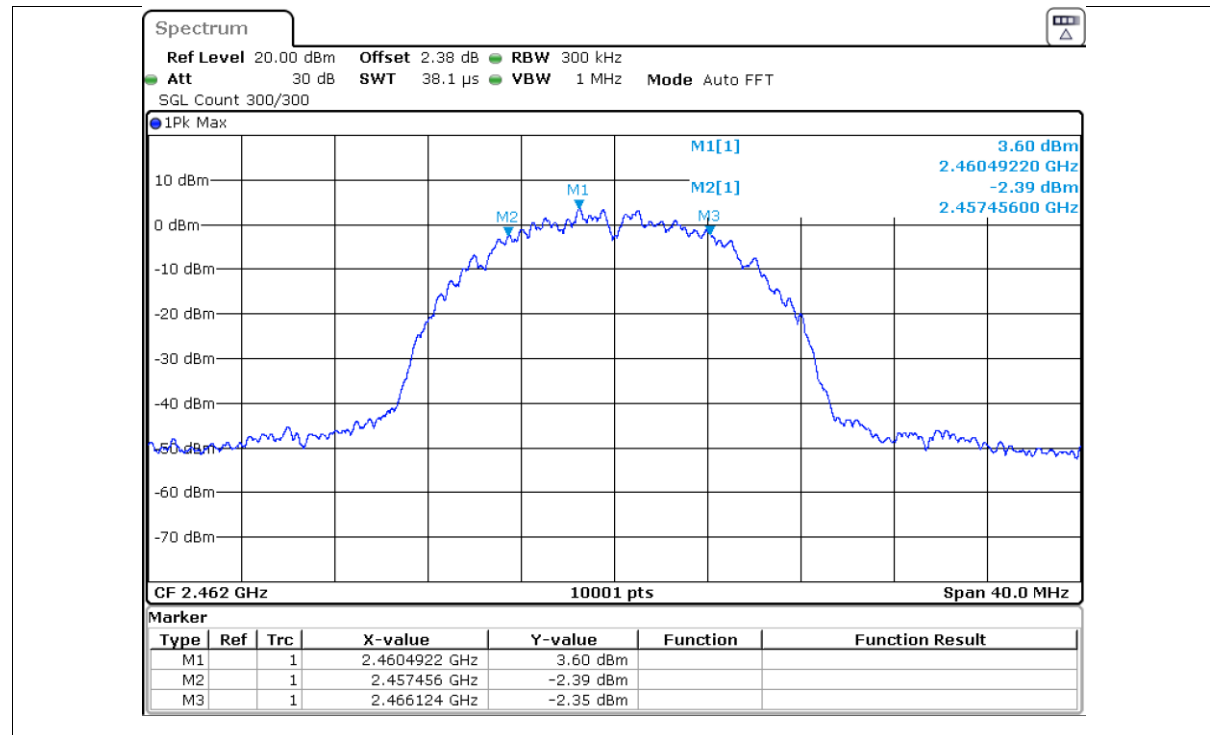
The test plots are attached as below.



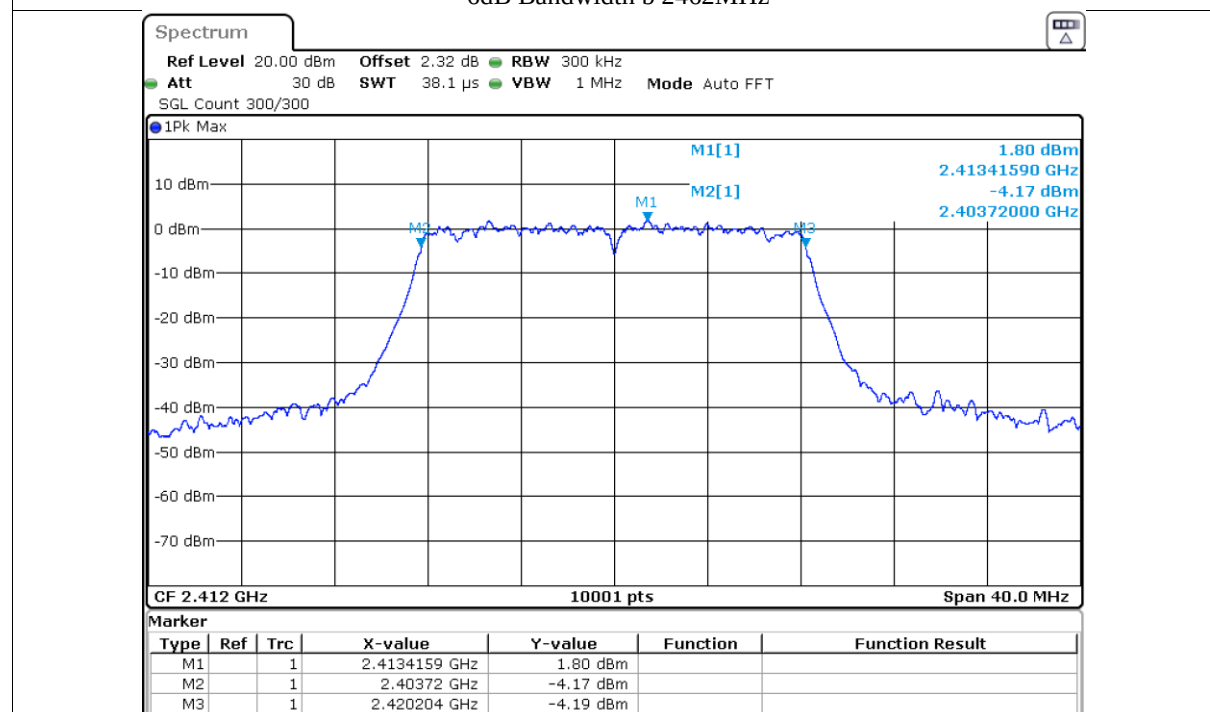
-6dB Bandwidth b 2412MHz



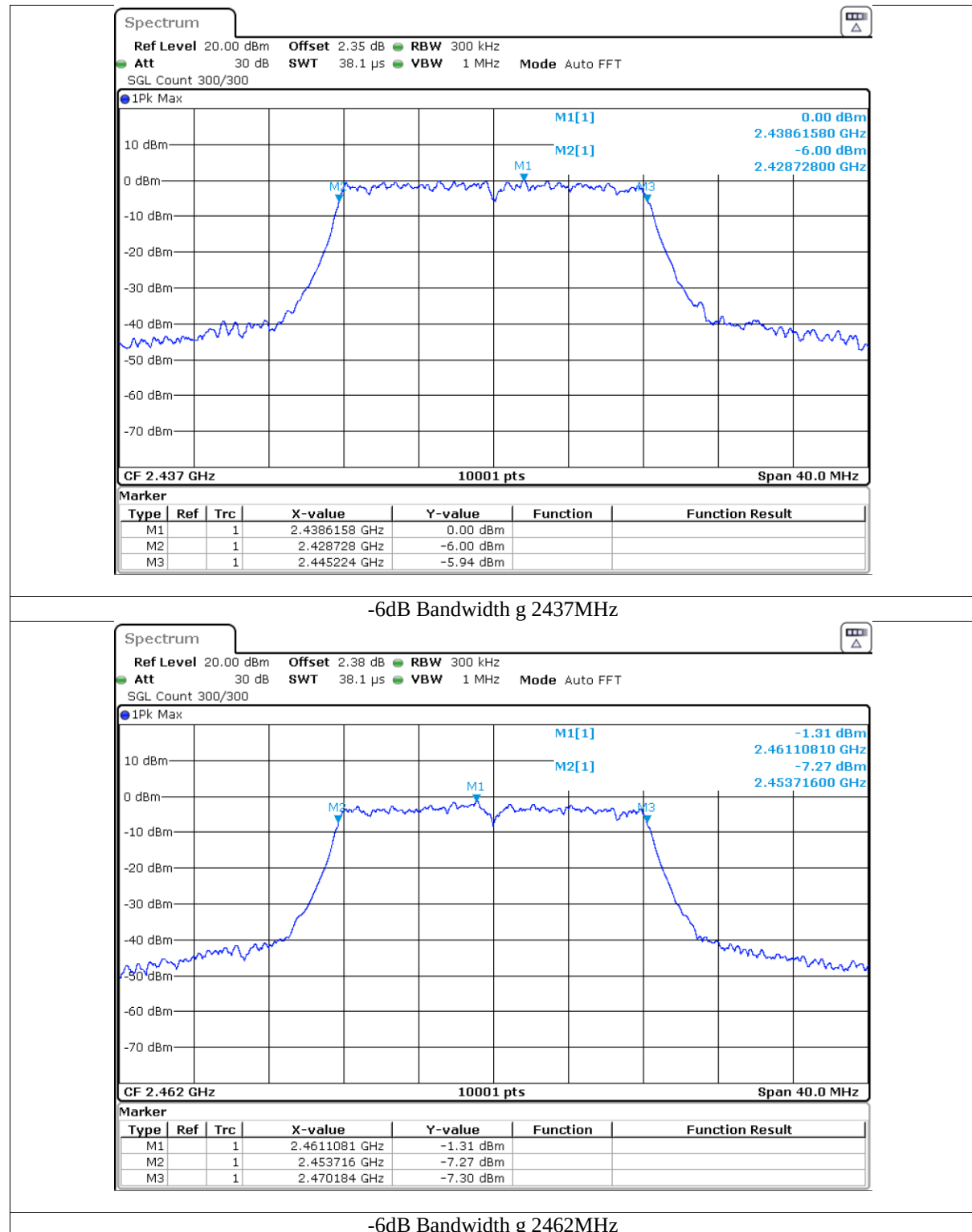
-6dB Bandwidth b 2437MHz

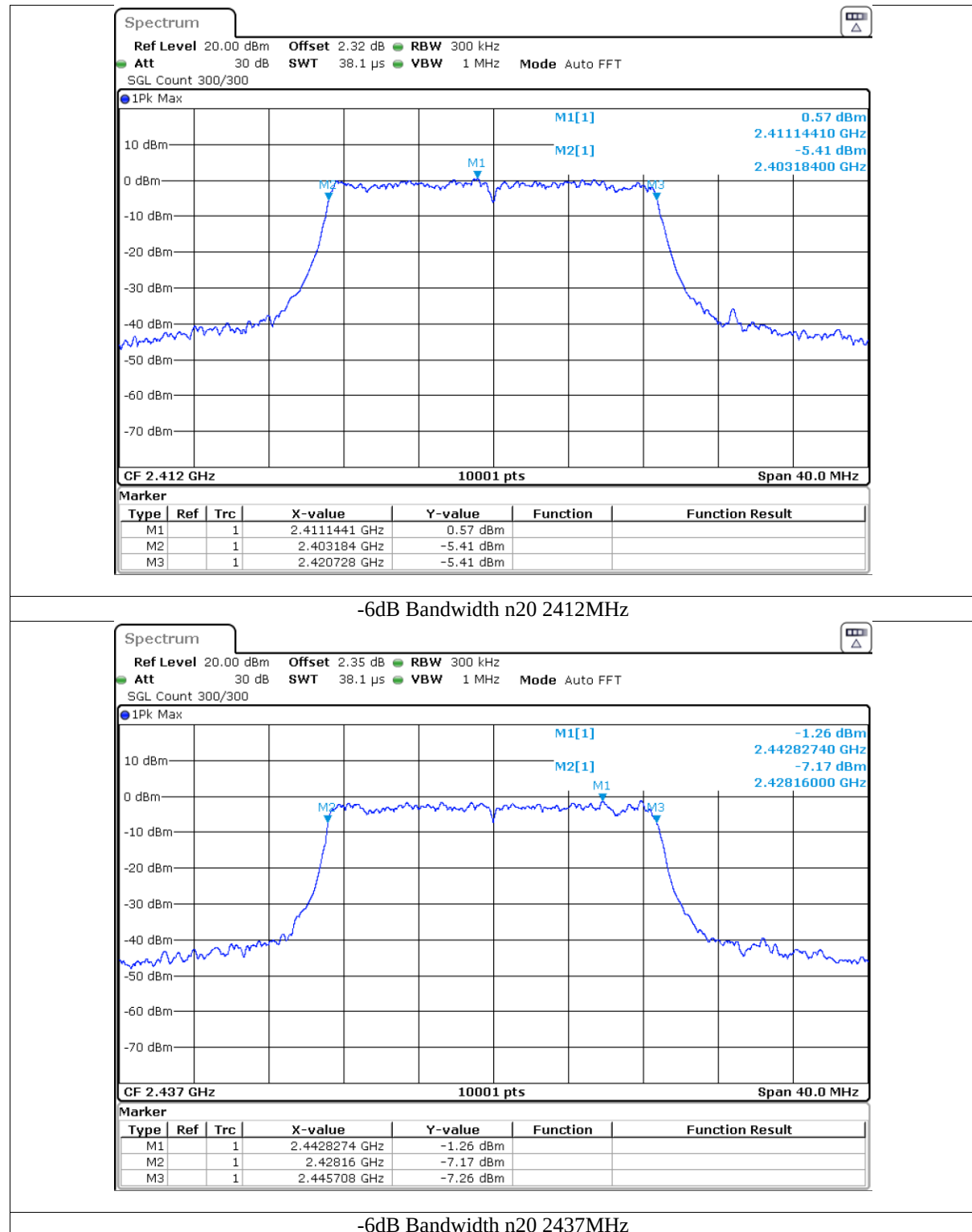


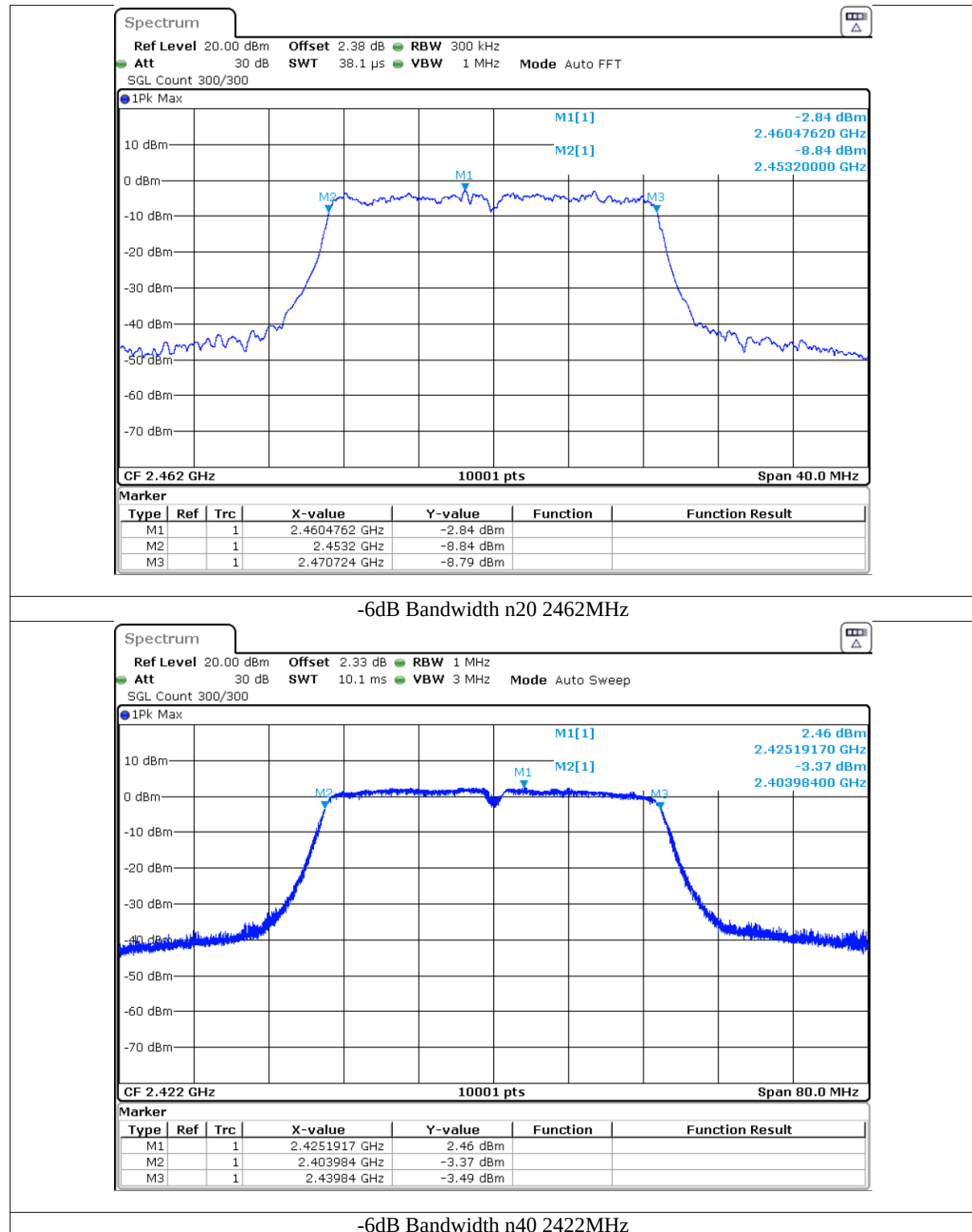
-6dB Bandwidth b 2462MHz

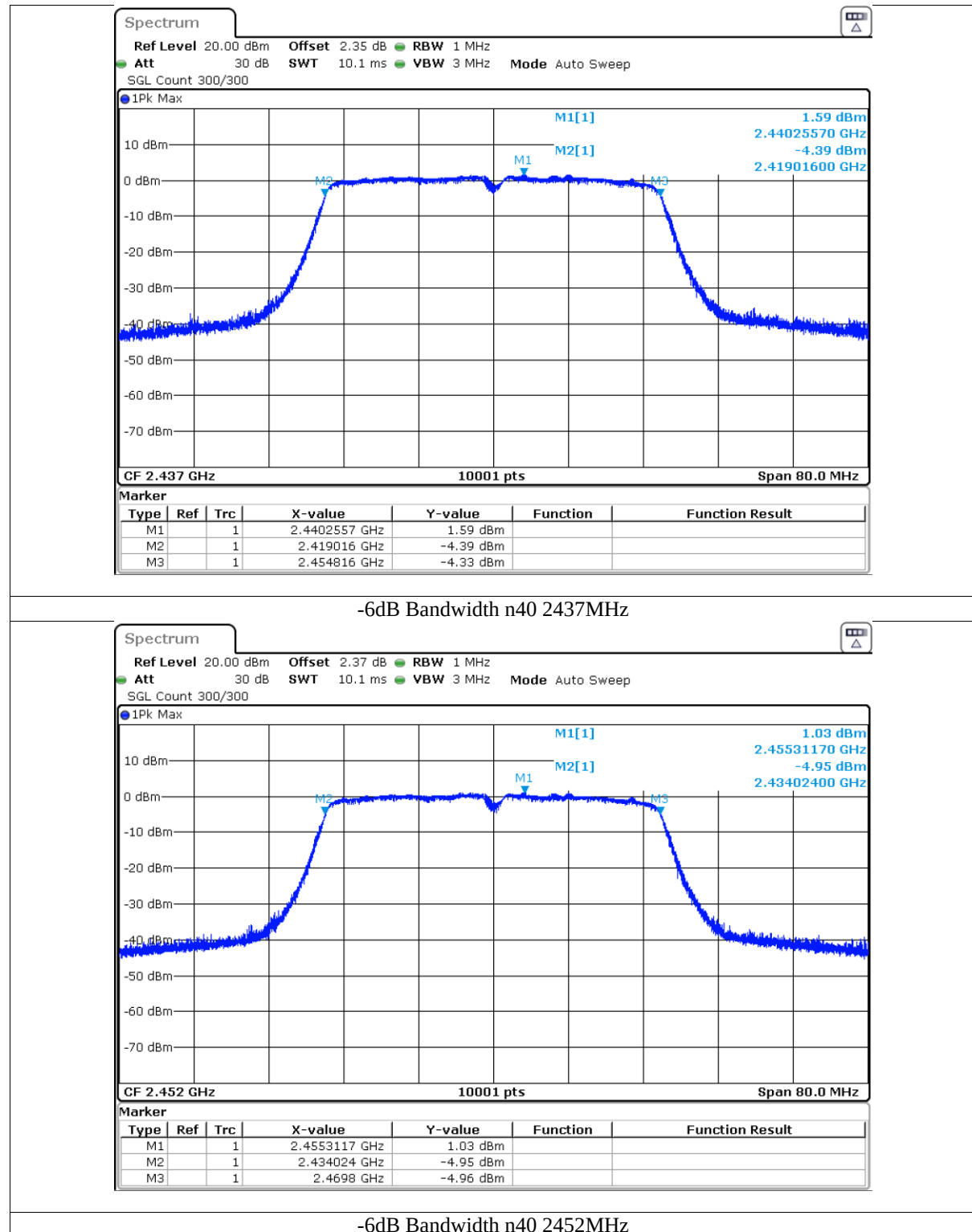


-6dB Bandwidth g 2412MHz









Applicant: CrunchLabs LLC

Date of Test: Jul 31 ,2026

Model: CL-040027

4.3 Maximum Power Spectral Density Reading, FCC Rule 15.247(e):

The Measurement Procedure PKPSD was set according to the FCC KDB 558074 D01 v05r02.

Antenna output of the EUT was coupled directly to spectrum analyzer; if an external attenuator and/or cable was used, these losses are compensated for with the analyzer OFFSET function.

Limit: The Power Spectral Density does not exceed 8dBm/3 kHz.

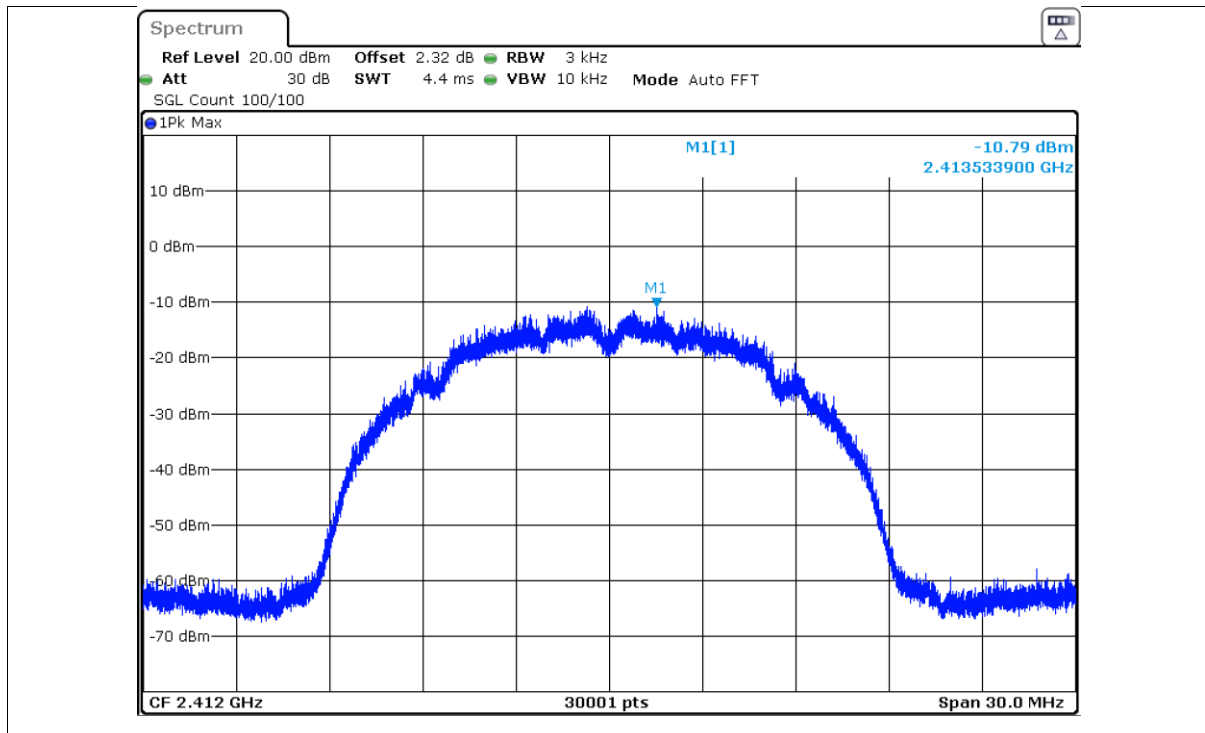
IEEE 802.11b (CCK, 1Mbps)	
Frequency (MHz)	Power Spectral Density with RBW 3KHz
2412	-10.79
2437	-12.10
2462	-13.82

IEEE 802.11g (16QAM, 6Mbps)	
Frequency (MHz)	Power Spectral Density with RBW 3KHz
2412	-13.99
2437	-15.22
2462	-16.88

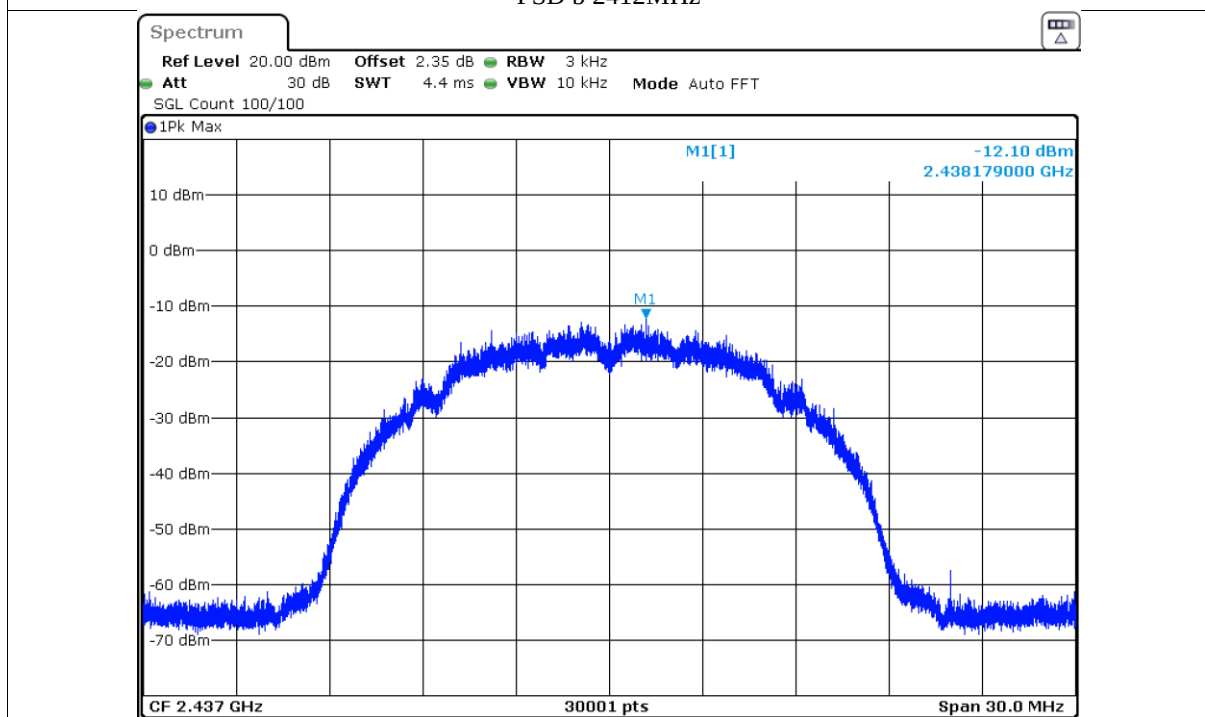
IEEE 802.11n-HT20 (64QAM, 6Mbps)	
Frequency (MHz)	Power Spectral Density with RBW 3KHz
2412	-14.47
2437	-16.18
2462	-18.17

IEEE 802.11n-HT40 (64QAM, 13.5Mbps)	
Frequency (MHz)	Power Spectral Density with RBW 3KHz
2422	-18.74
2437	-19.68
2452	-20.26

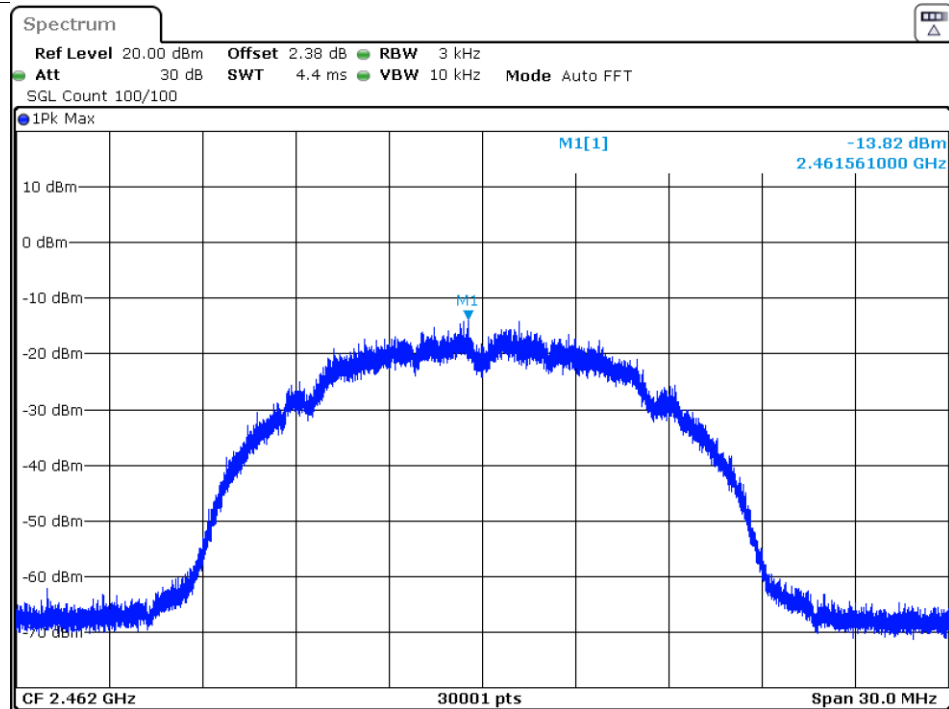
The test plots are attached as below.



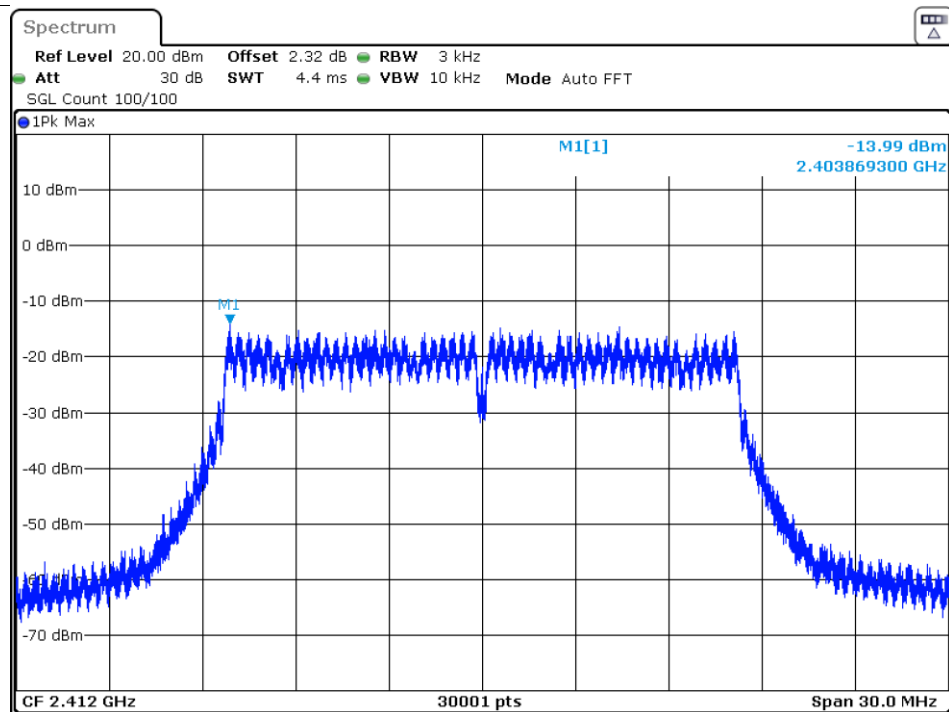
PSD b 2412MHz



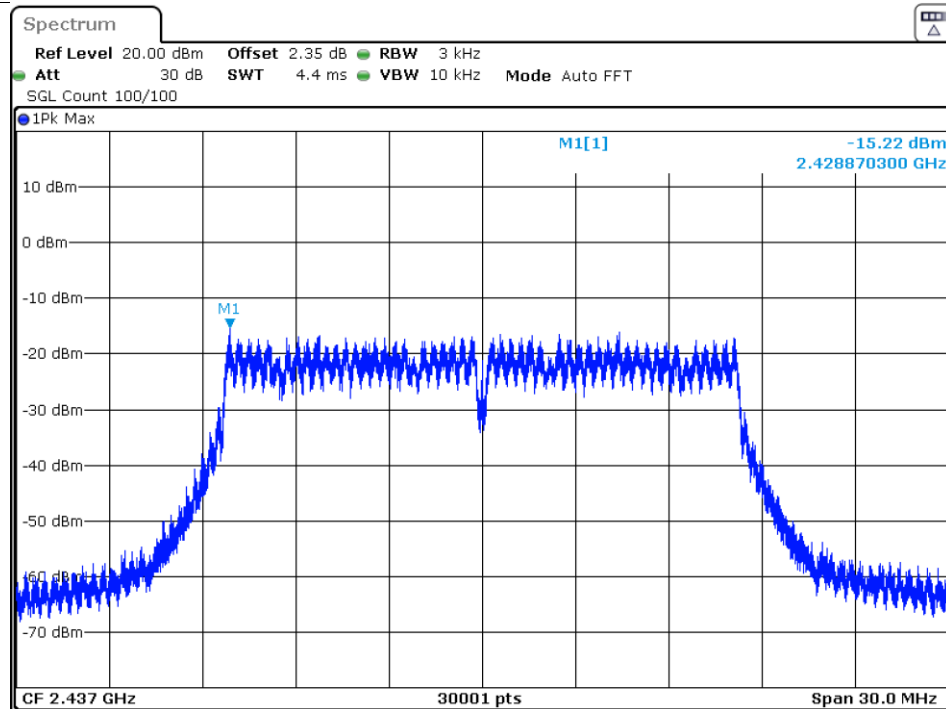
PSD b 2437MHz



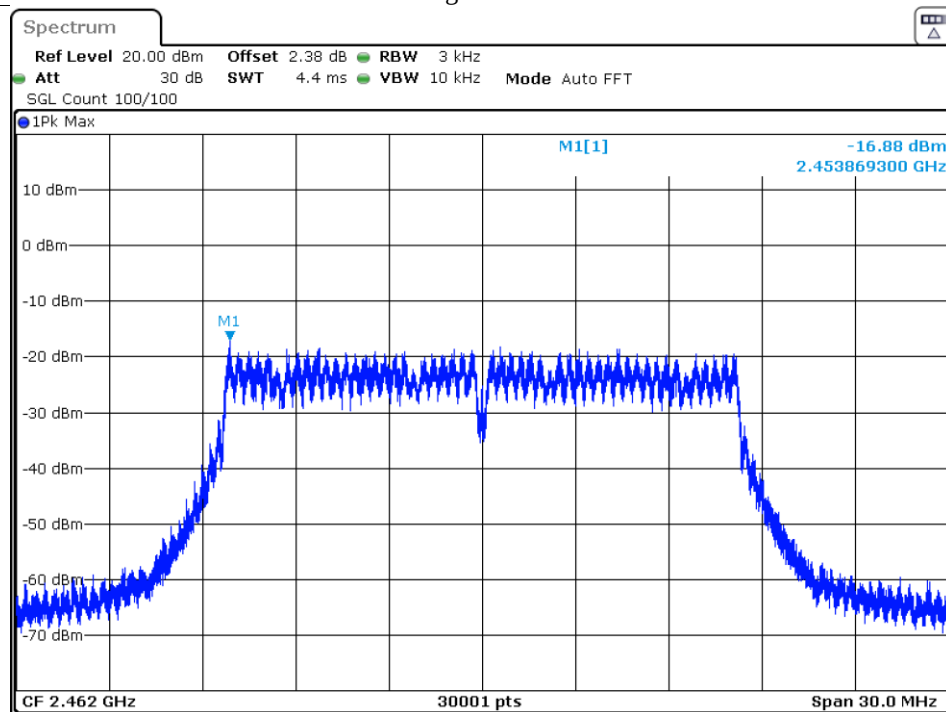
PSD b 2462MHz



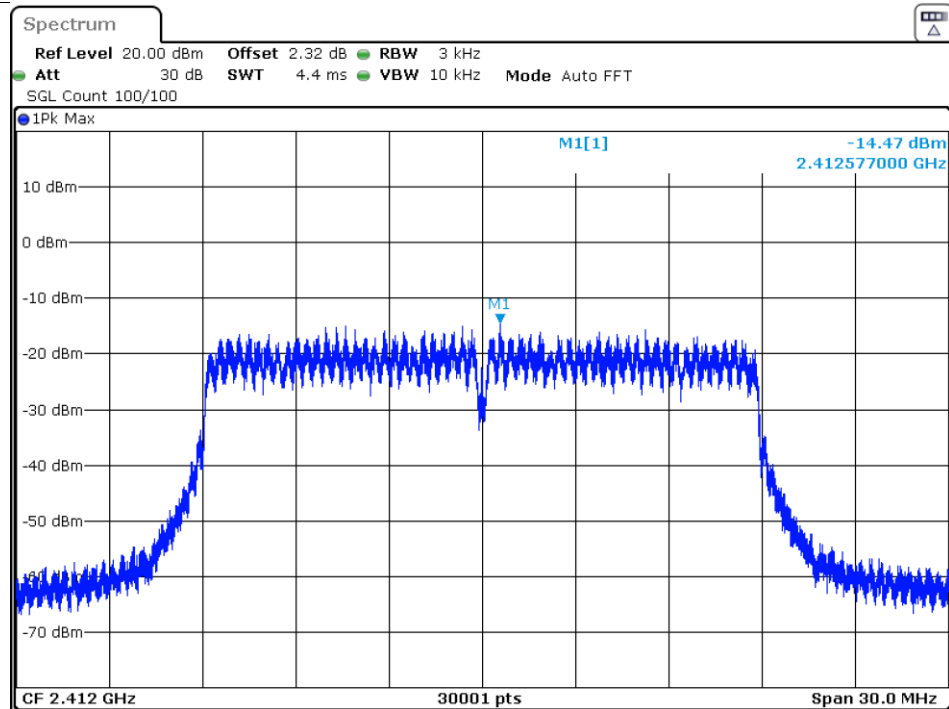
PSD g 2412MHz



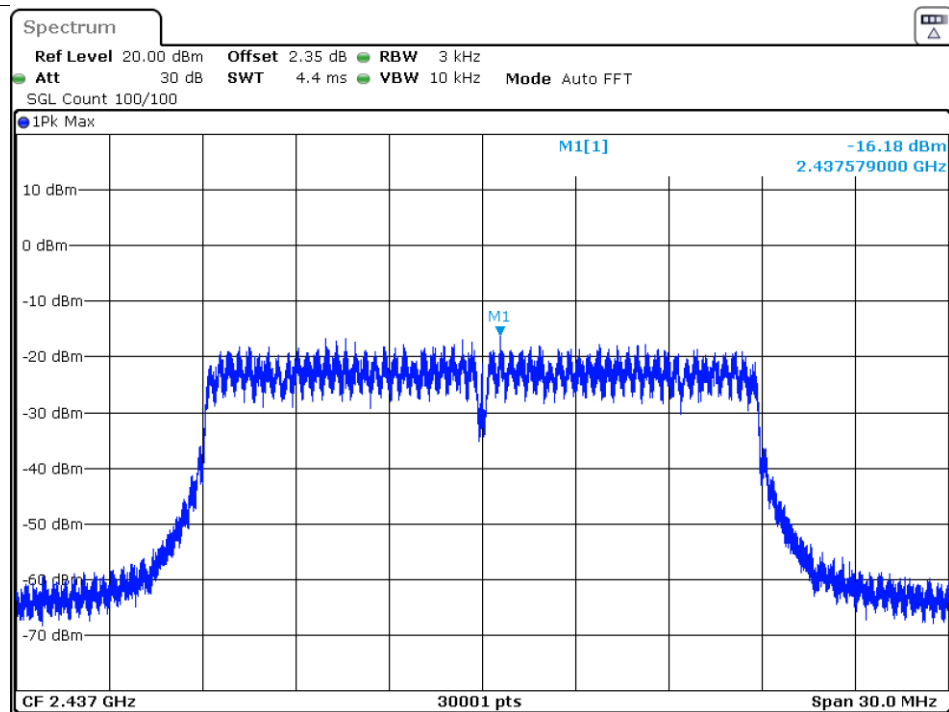
PSD g 2437MHz



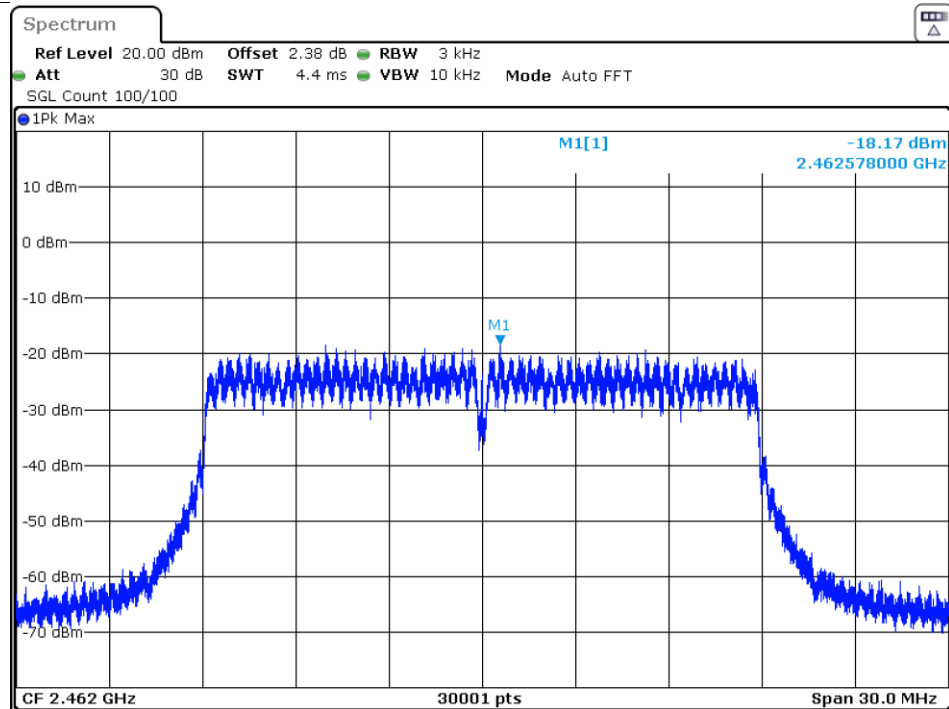
PSD g 2462MHz



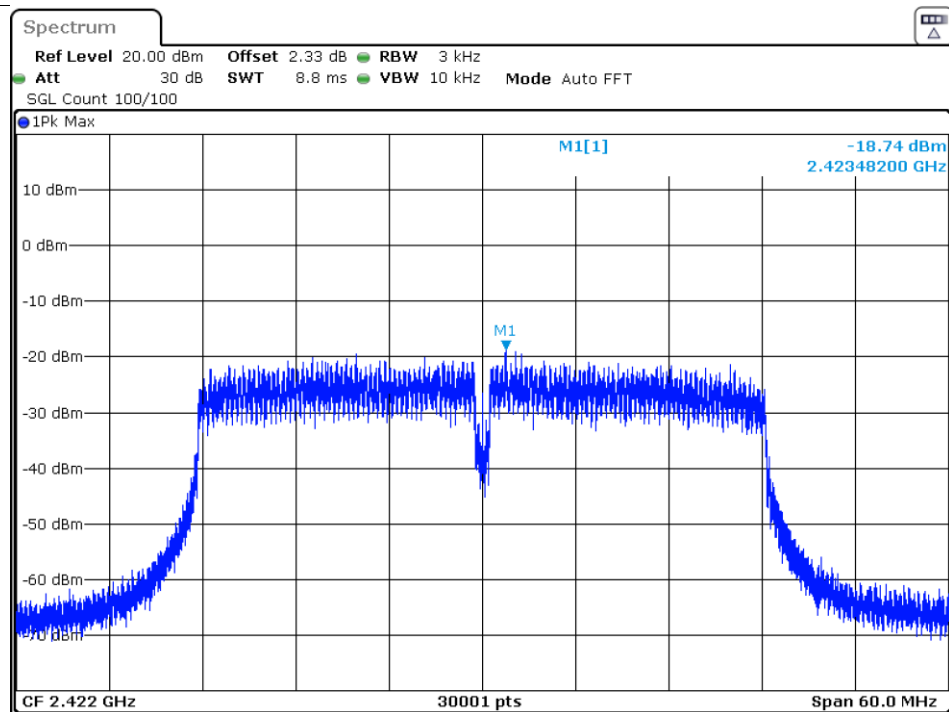
PSD n20 2412MHz



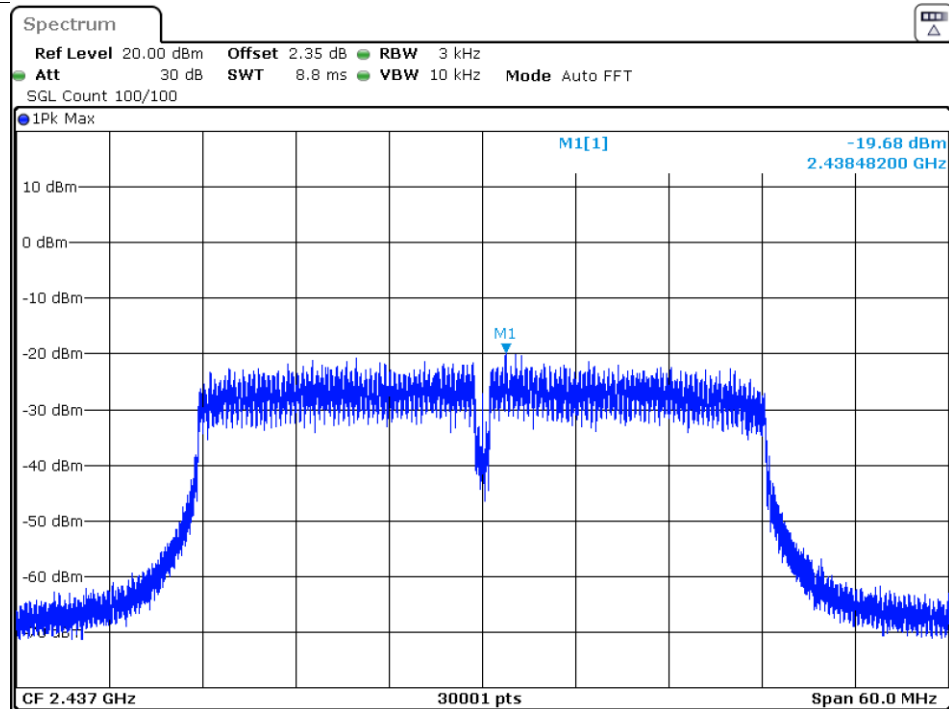
PSD n20 2437MHz



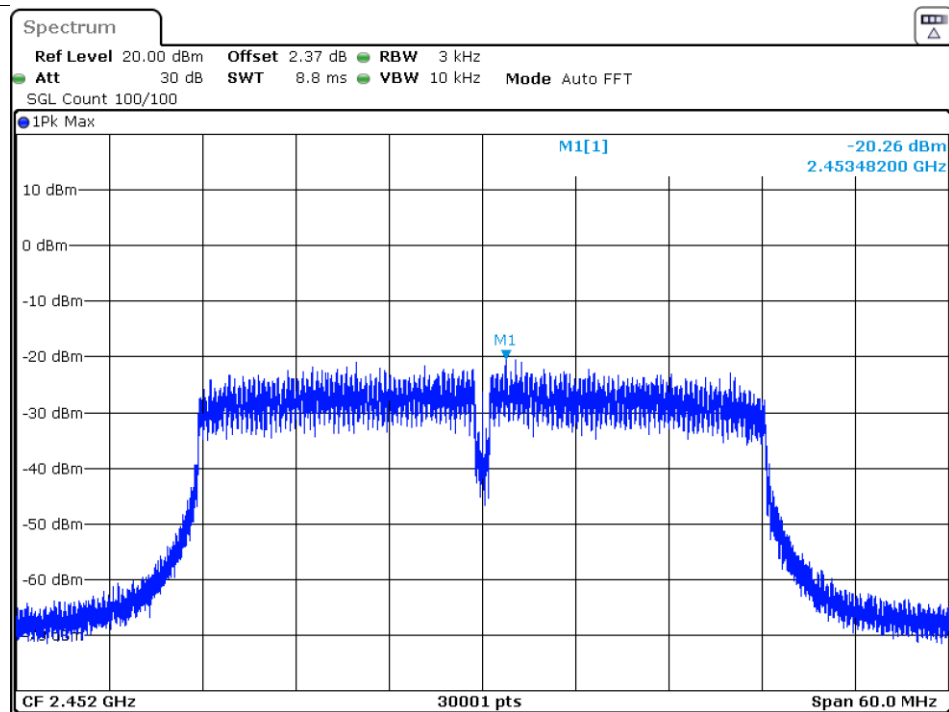
PSD n20 2462MHz



PSD n40 2422MHz



PSD n40 2437MHz



PSD n40 2452MHz

Applicant: CrunchLabs LLC

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4.4 Out of Band Conducted Emissions, FCC Rule 15.247(d)

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. The Measurement Procedure was set according to the FCC KDB 558074 D01 v05r02.

All other types of emissions from the EUT shall meet the general limits for radiated frequencies outside the passband.

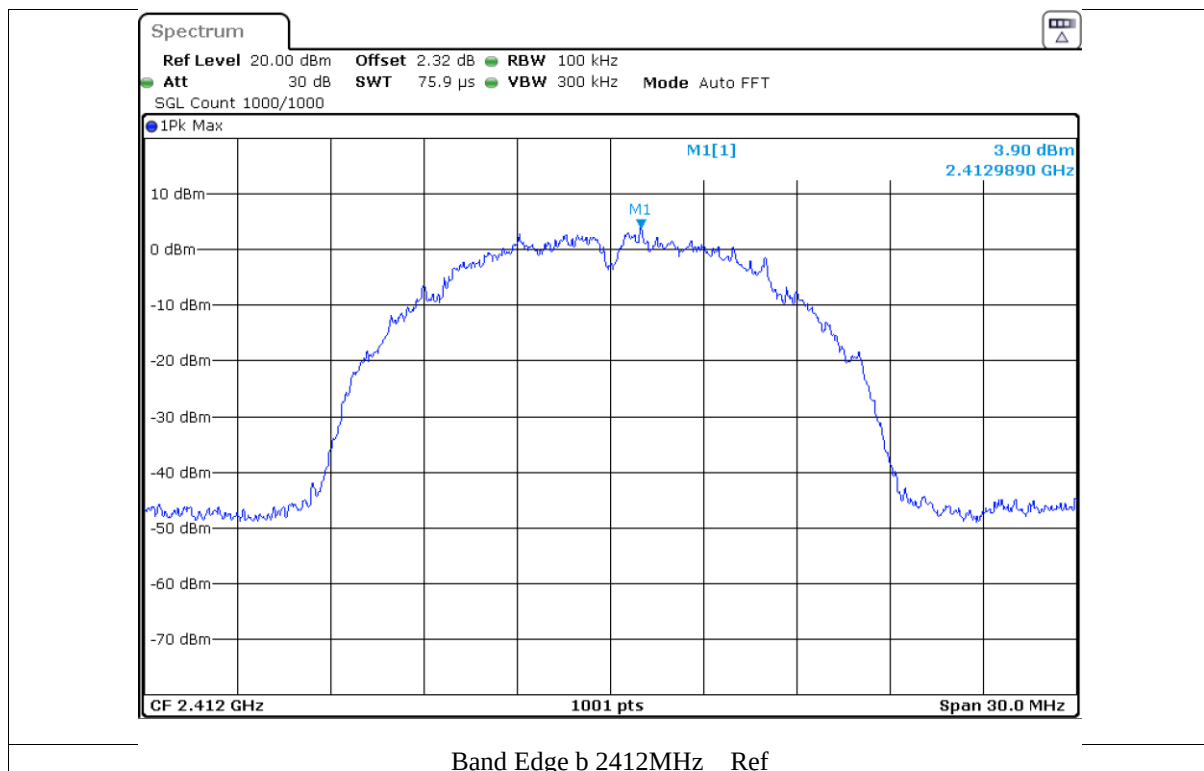
Refer to the attached test plots for out of band conducted emissions data with rate of 1Mbps for 802.11b and 6Mbps for 802.11g and 6Mbps for 802.11n-HT20 and 13.5Mbps for 802.11n-HT40.

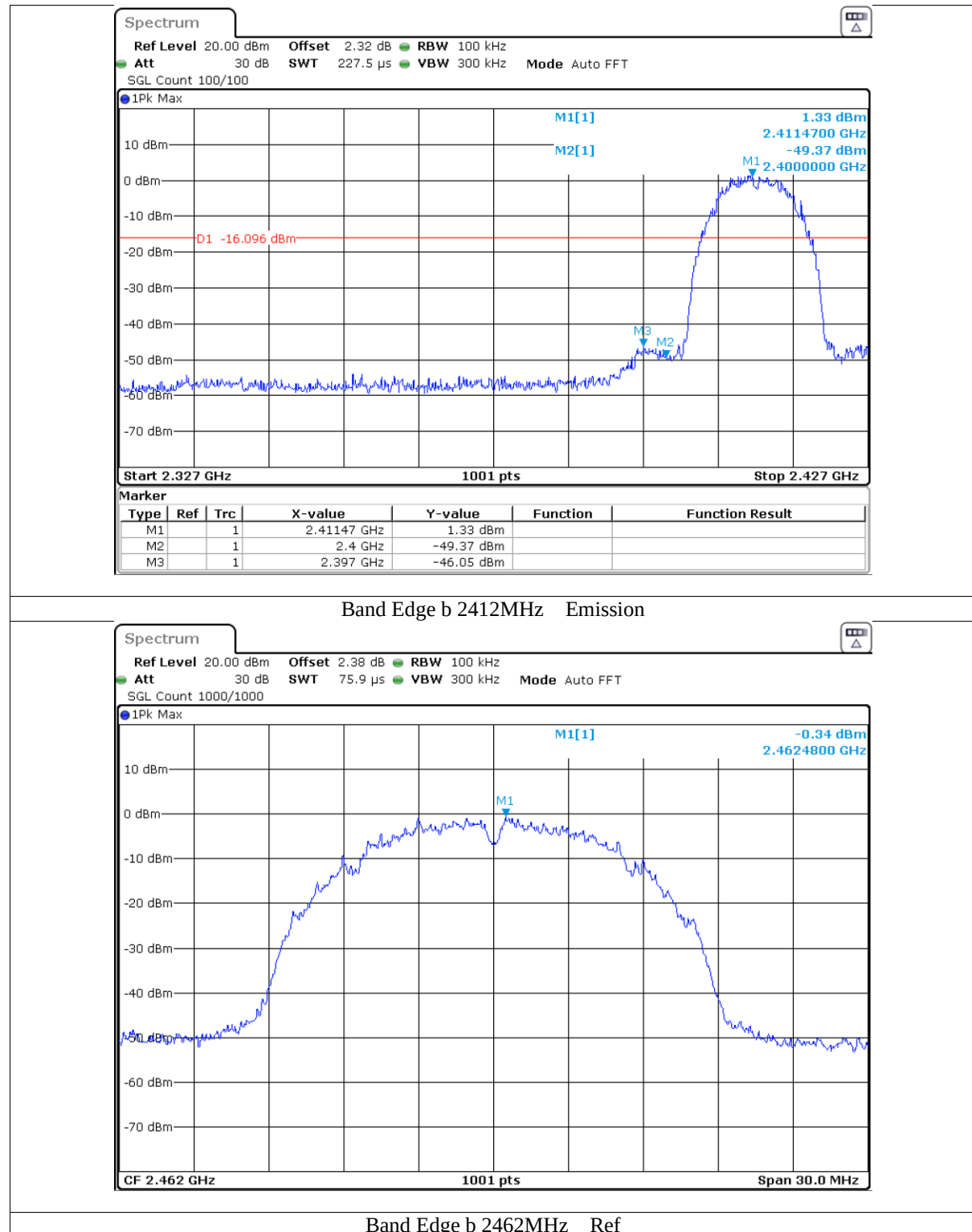
The test plots showed all spurious emission up to the tenth harmonic were measured and they were found to be at least 20 dB below the highest level of the desired power in the passband.

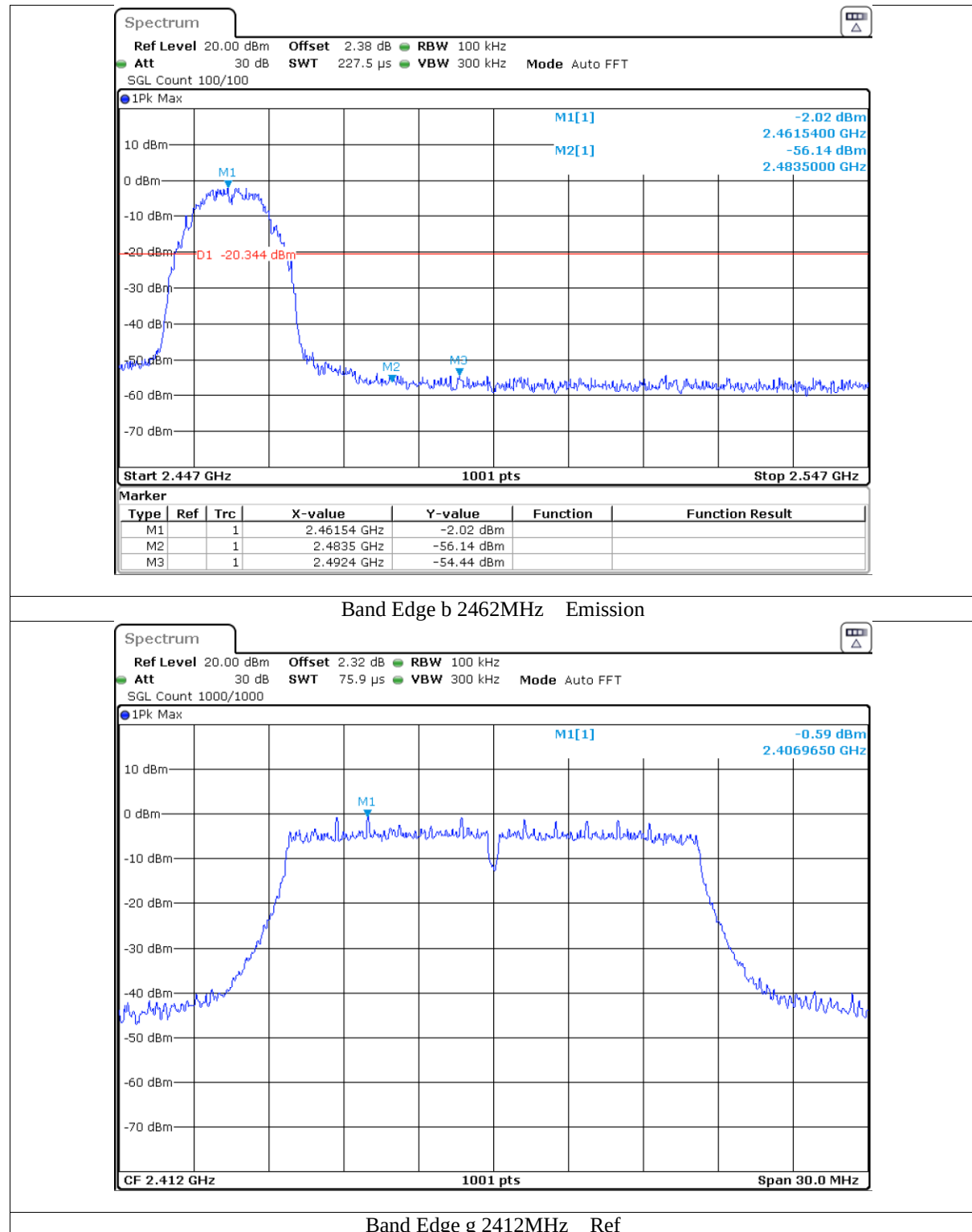
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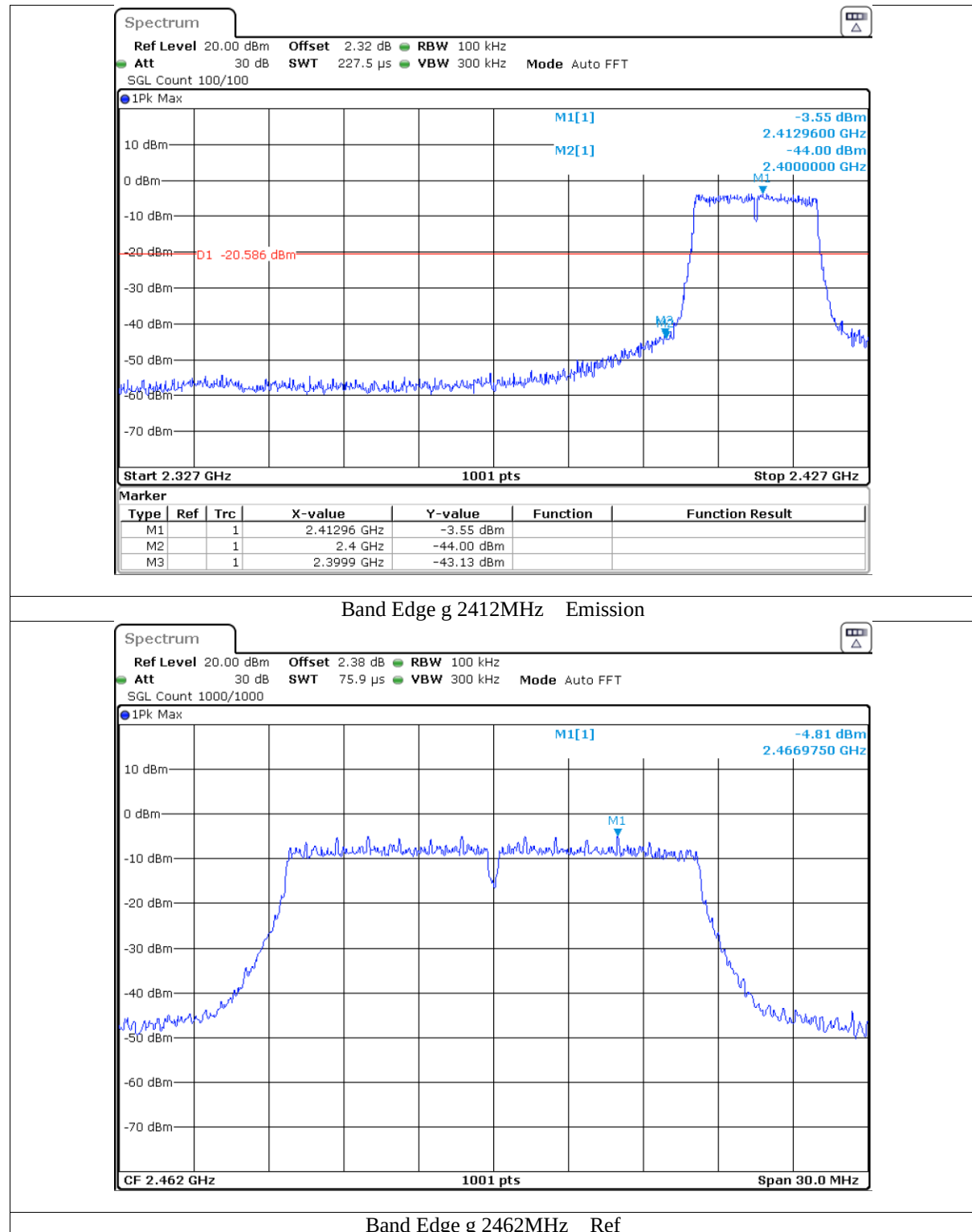
Band Edge

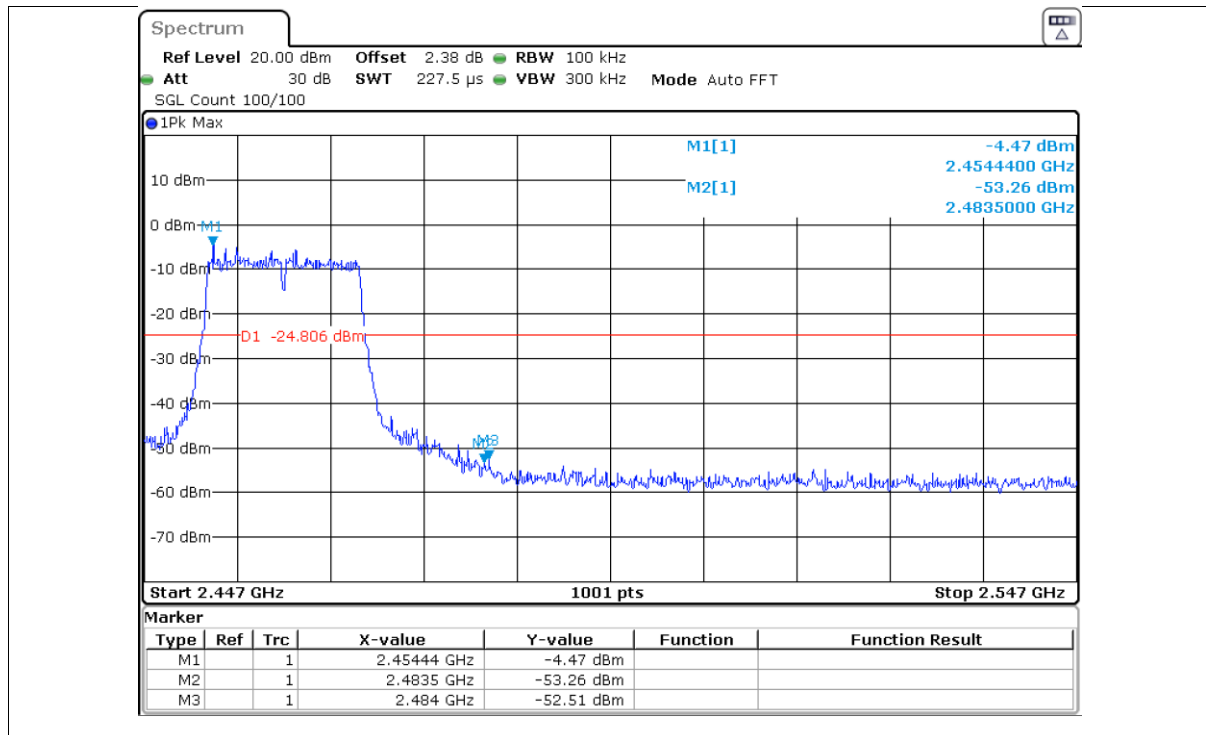
Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	-49.95	-20	Pass
b	2462	-54.10	-20	Pass
g	2412	-42.54	-20	Pass
g	2462	-47.7	-20	Pass
n20	2412	-41.64	-20	Pass
n20	2462	-47.21	-20	Pass
n40	2422	-35.49	-20	Pass
n40	2452	-44.62	-20	Pass



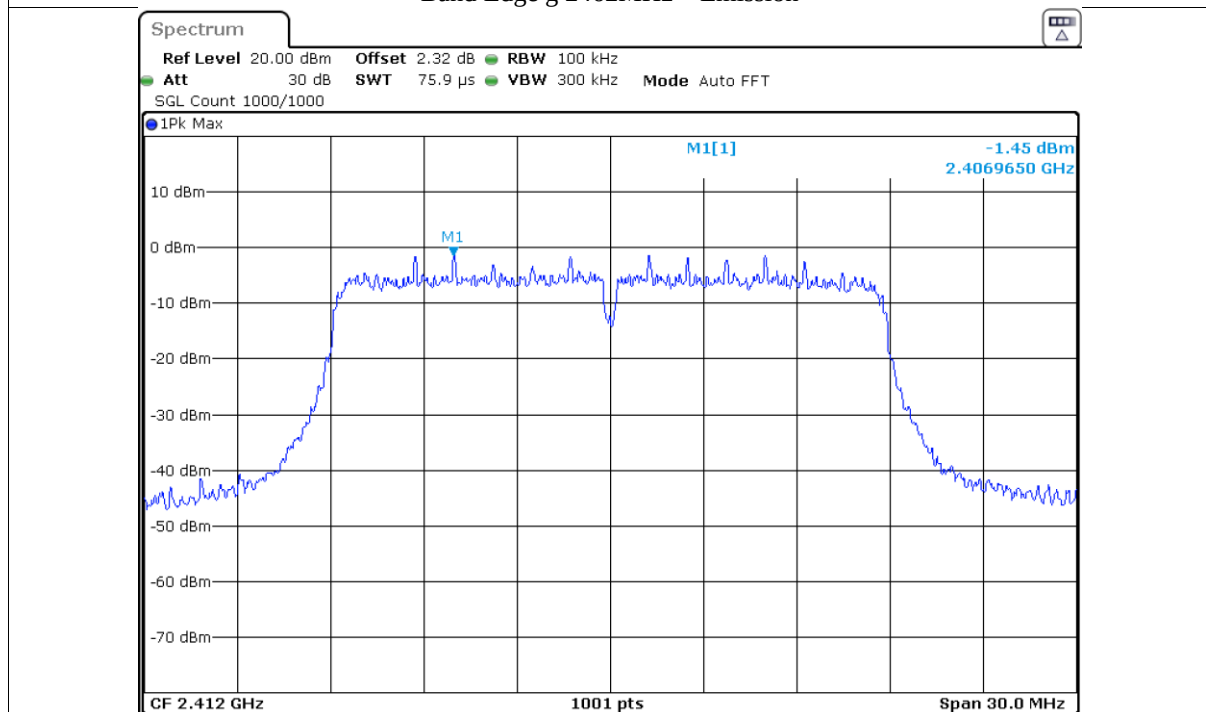




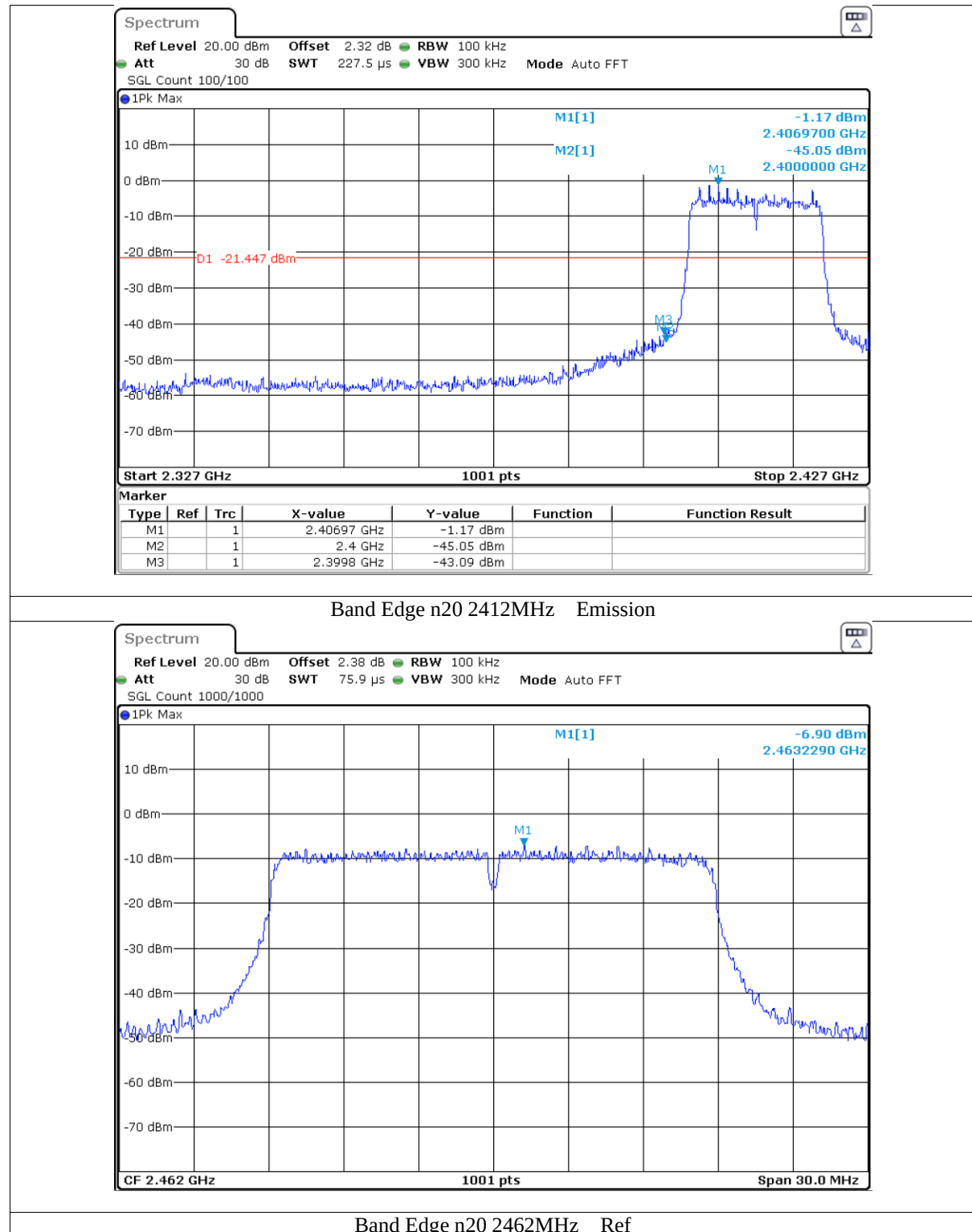


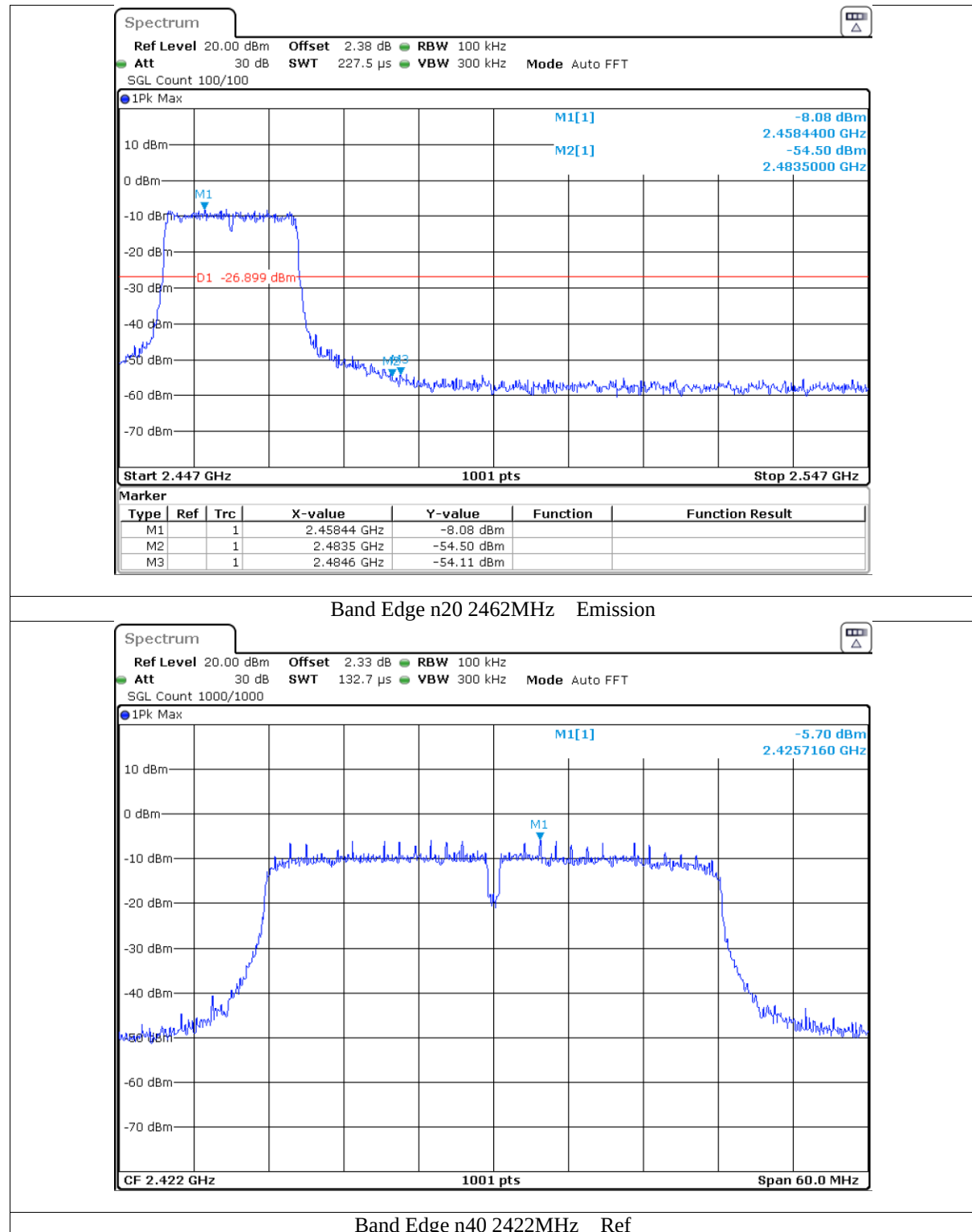


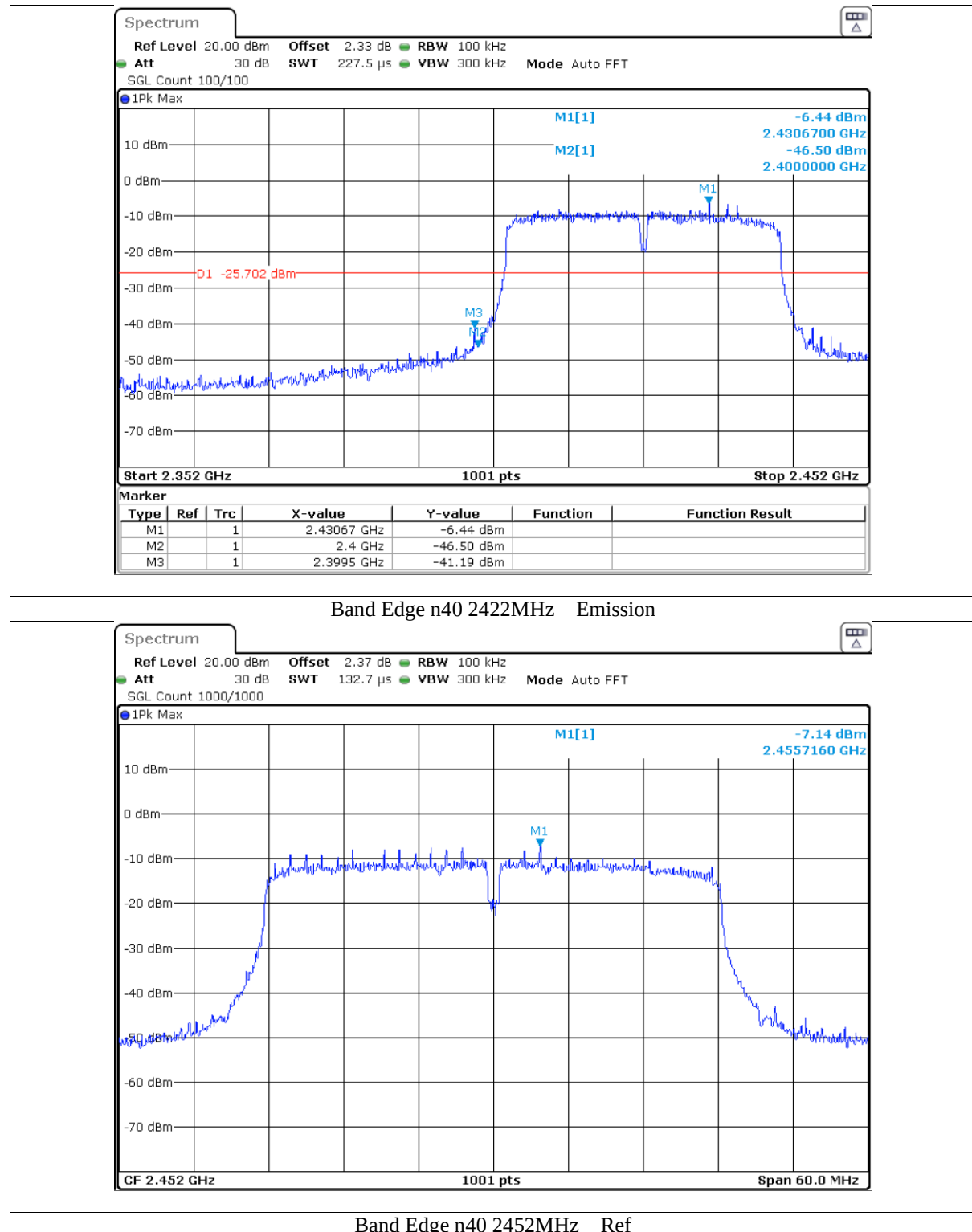
Band Edge g 2462MHz Emission

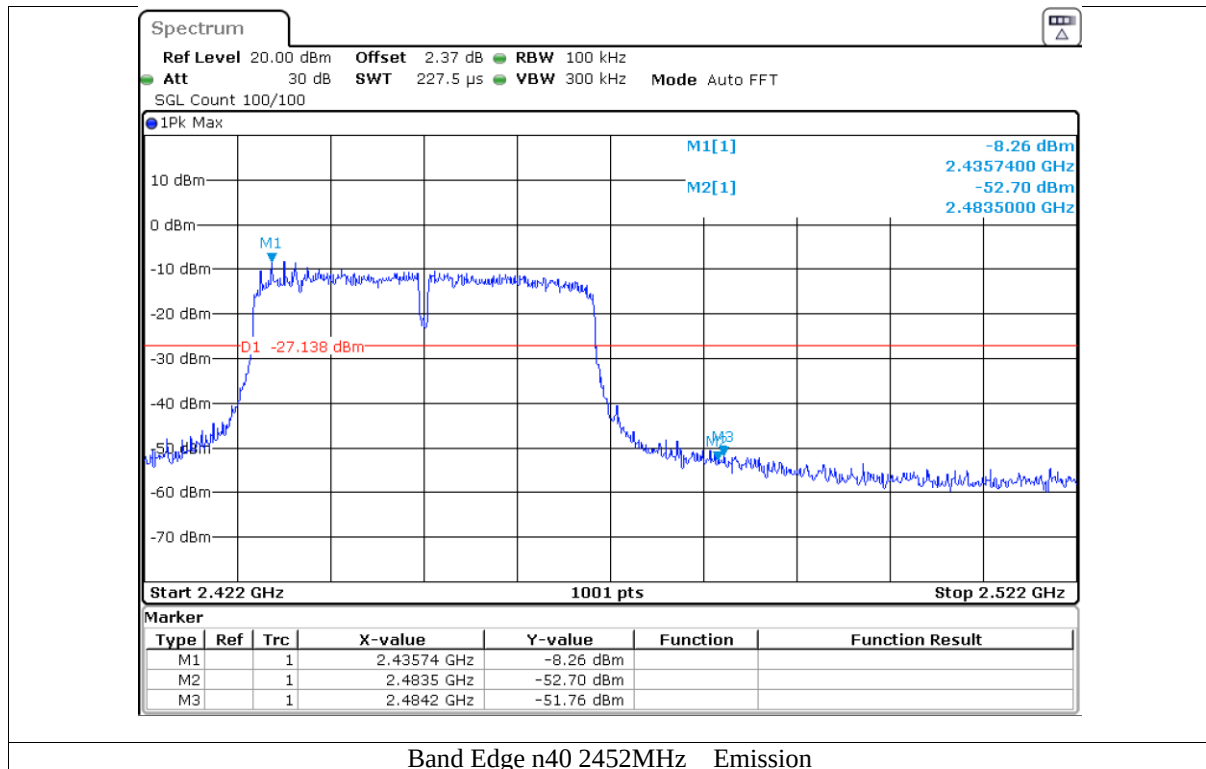


Band Edge n20 2412MHz Ref



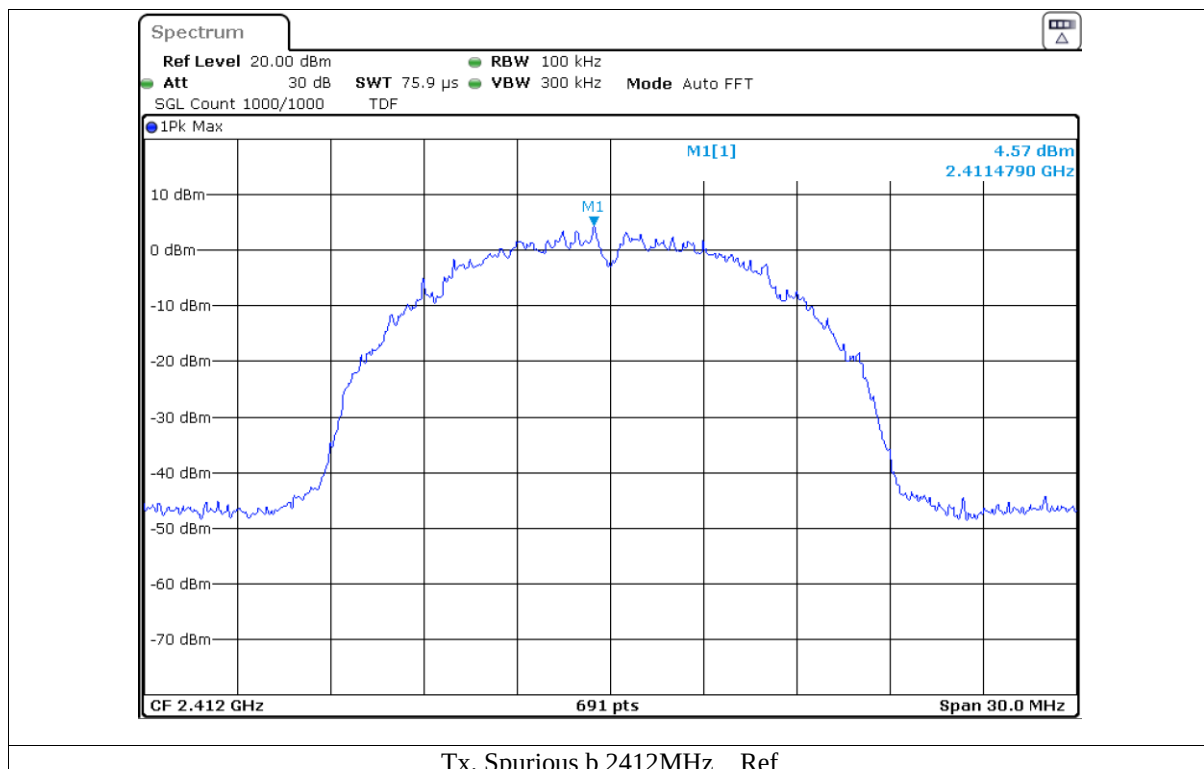


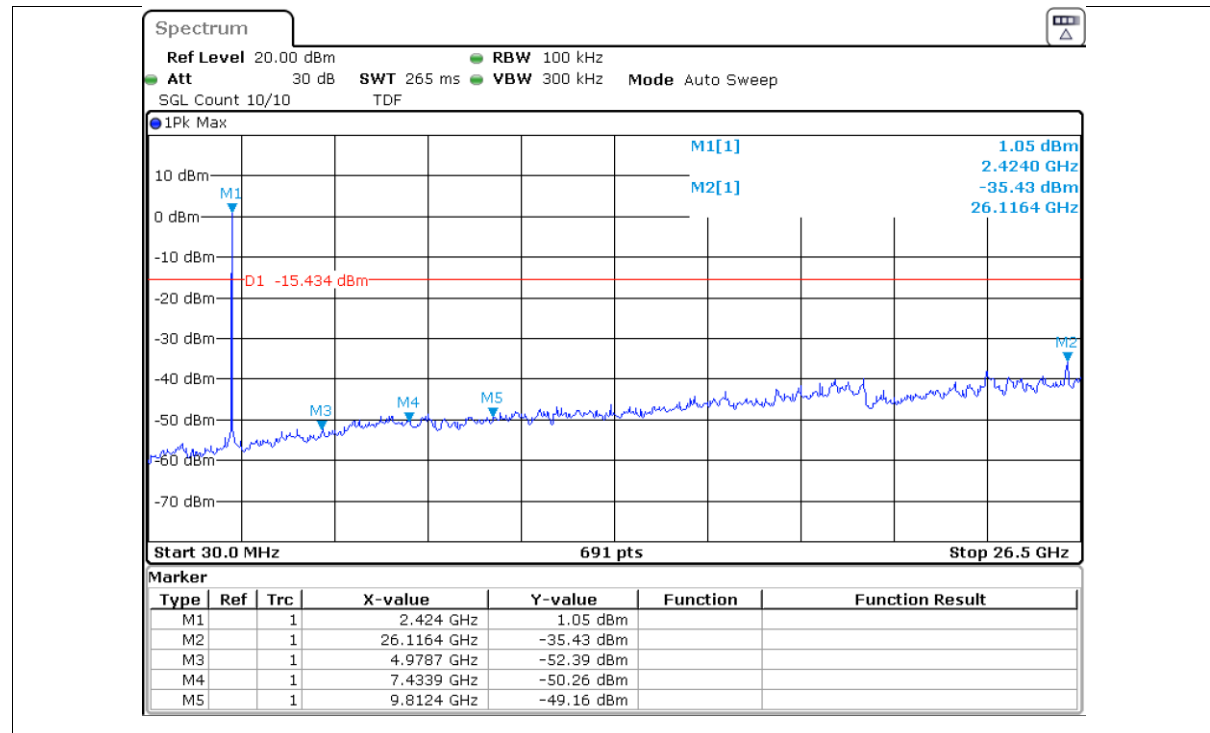




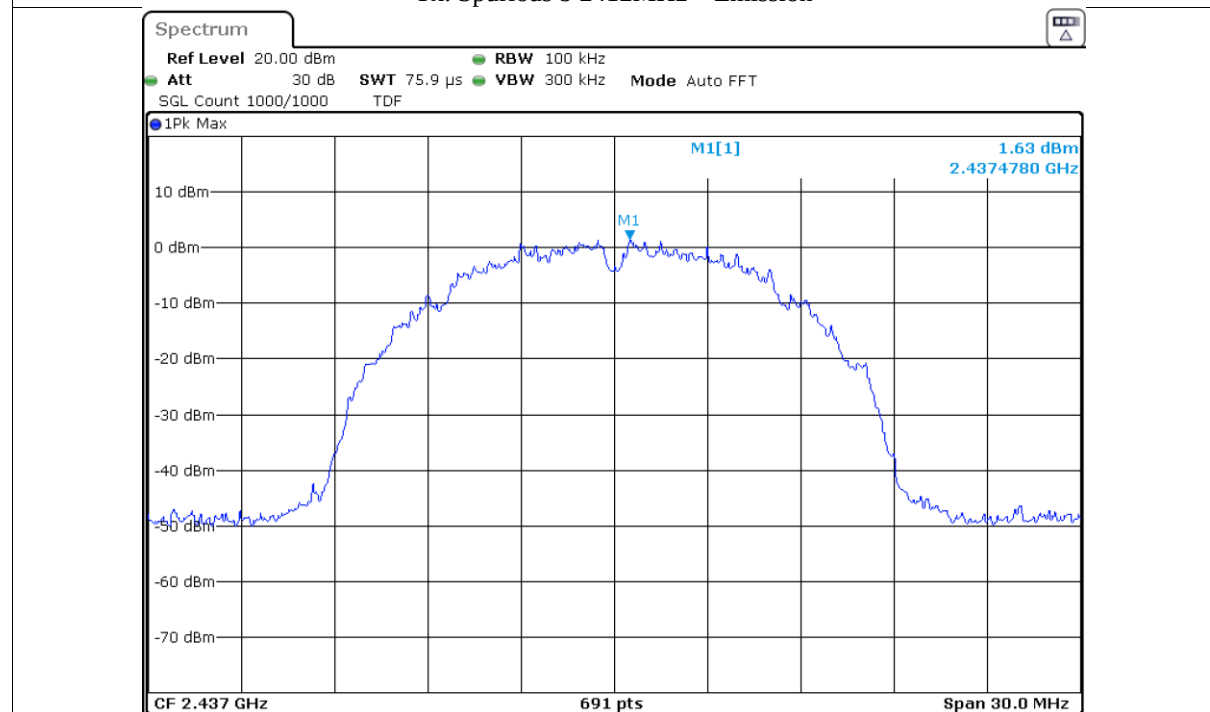
Conducted RF Spurious Emission

Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	-40.00	-20	Pass
b	2437	-36.41	-20	Pass
b	2462	-36.5	-20	Pass
g	2412	-34.74	-20	Pass
g	2437	-33.65	-20	Pass
g	2462	-31.41	-20	Pass
n20	2412	-34.55	-20	Pass
n20	2437	-32.15	-20	Pass
n20	2462	-31.23	-20	Pass
n40	2422	-29.88	-20	Pass
n40	2437	-29.11	-20	Pass
n40	2452	-28.11	-20	Pass

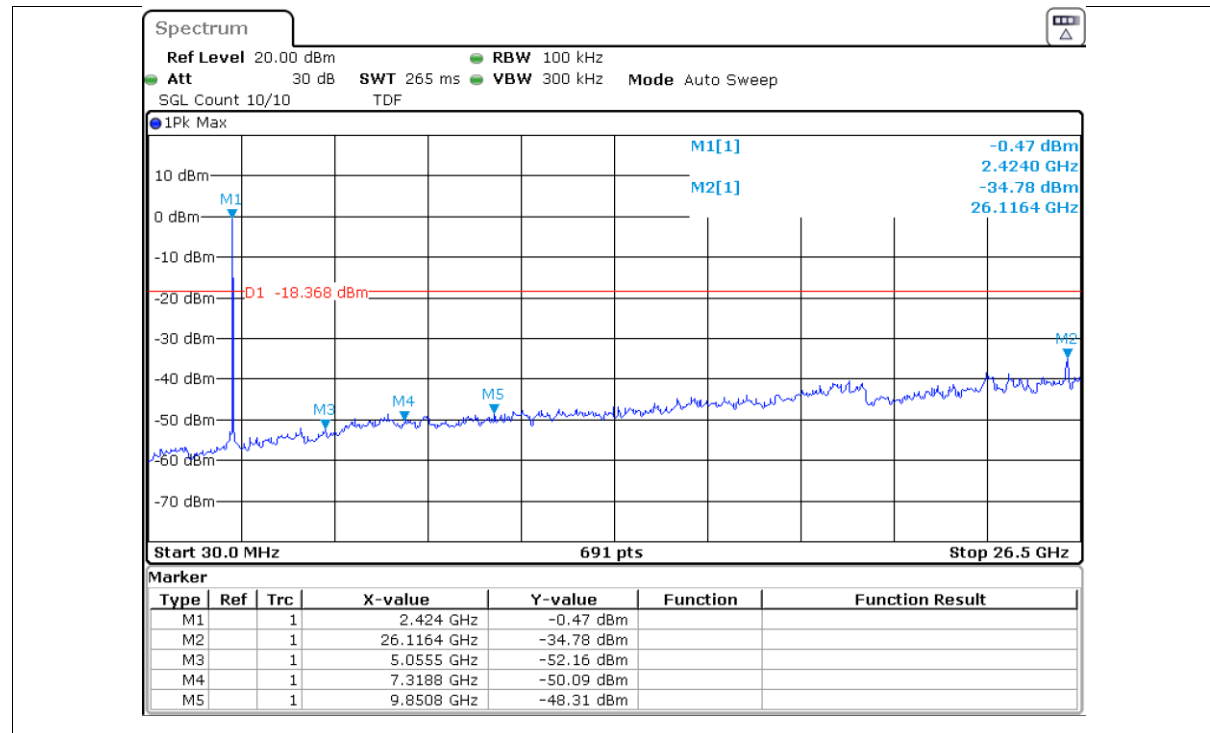




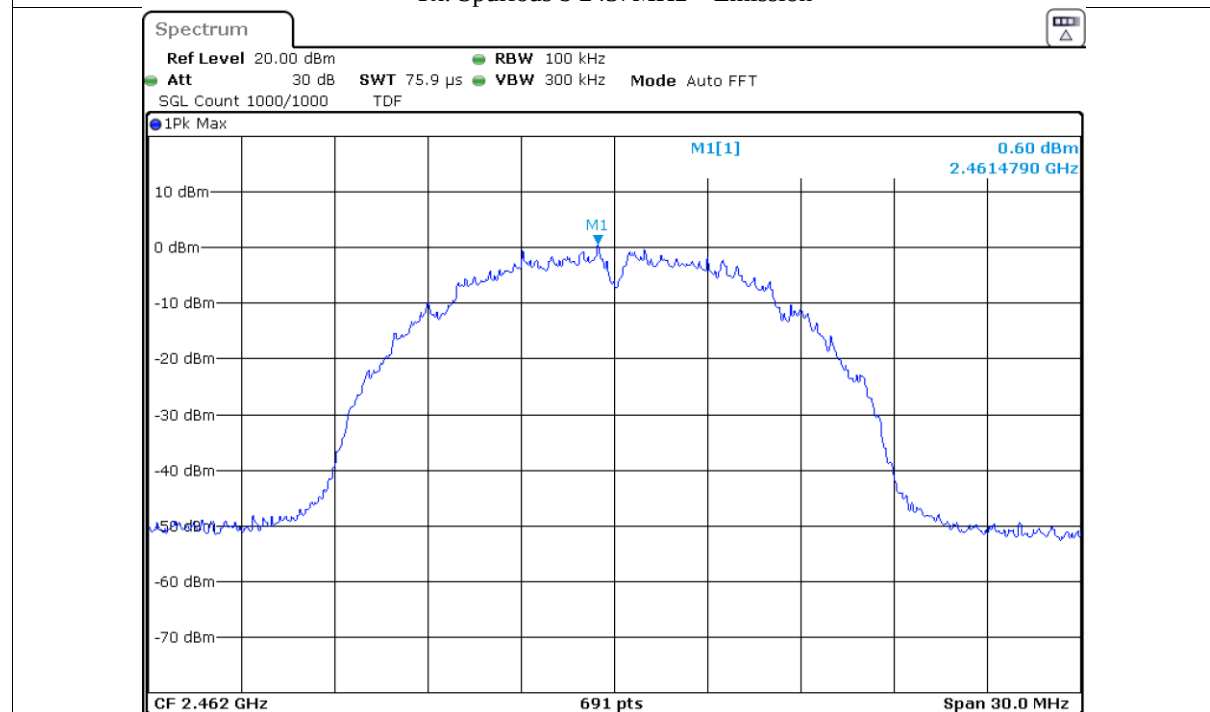
Tx. Spurious b 2412MHz Emission



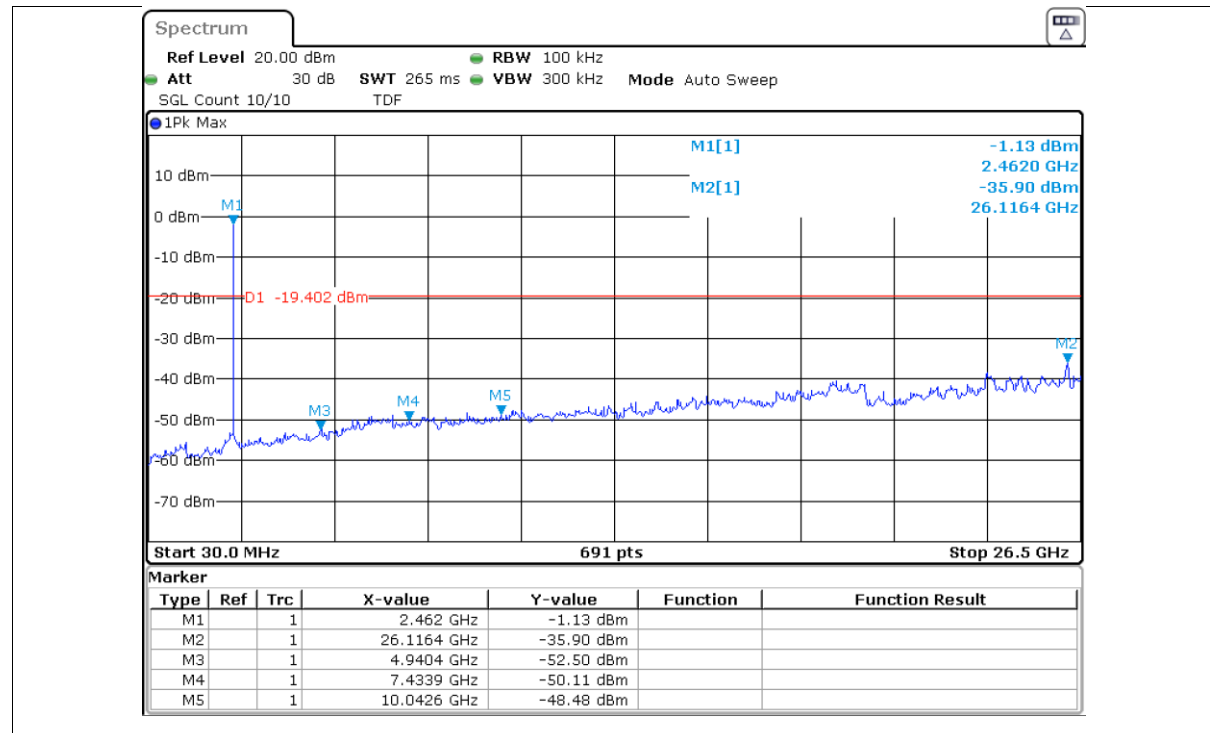
Tx. Spurious b 2437MHz Ref



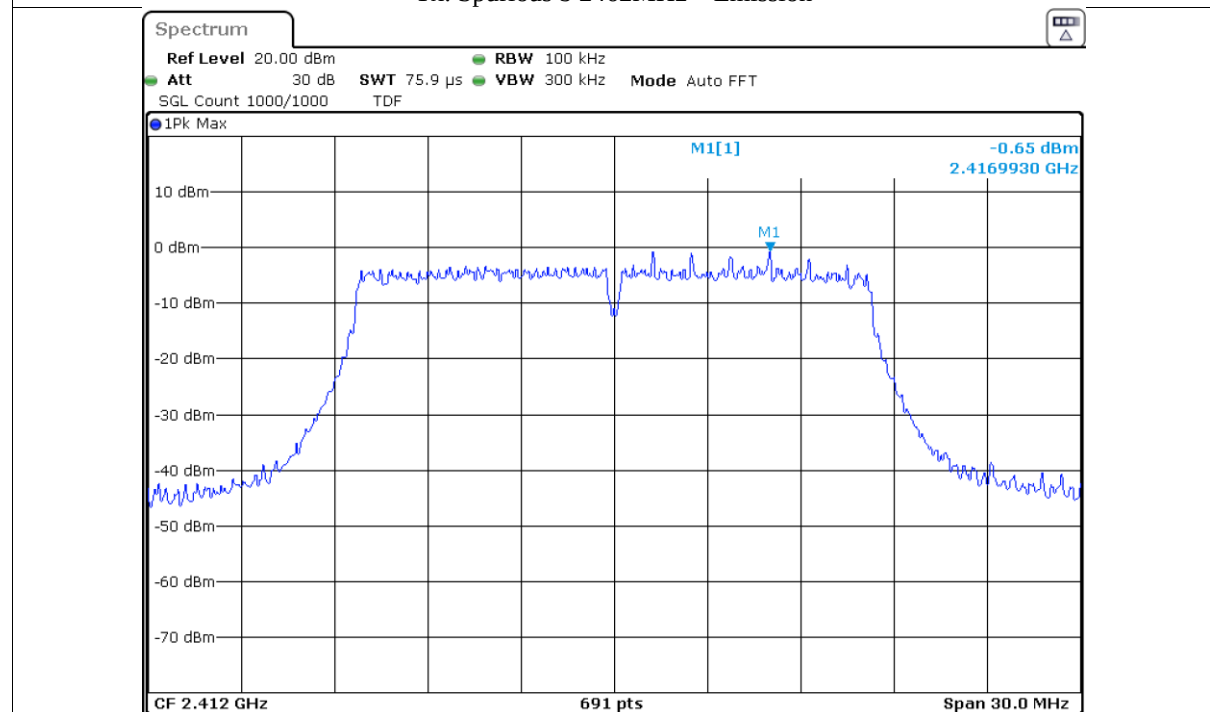
Tx. Spurious b 2437MHz Emission



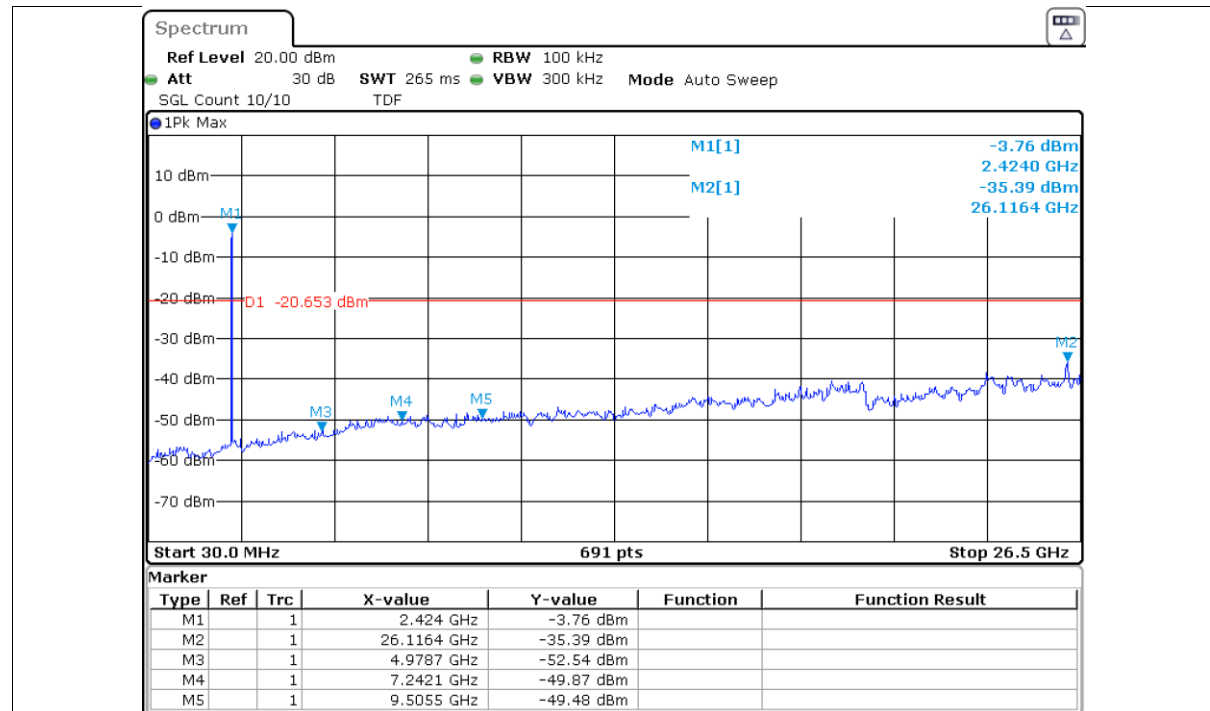
Tx. Spurious b 2462MHz Ref



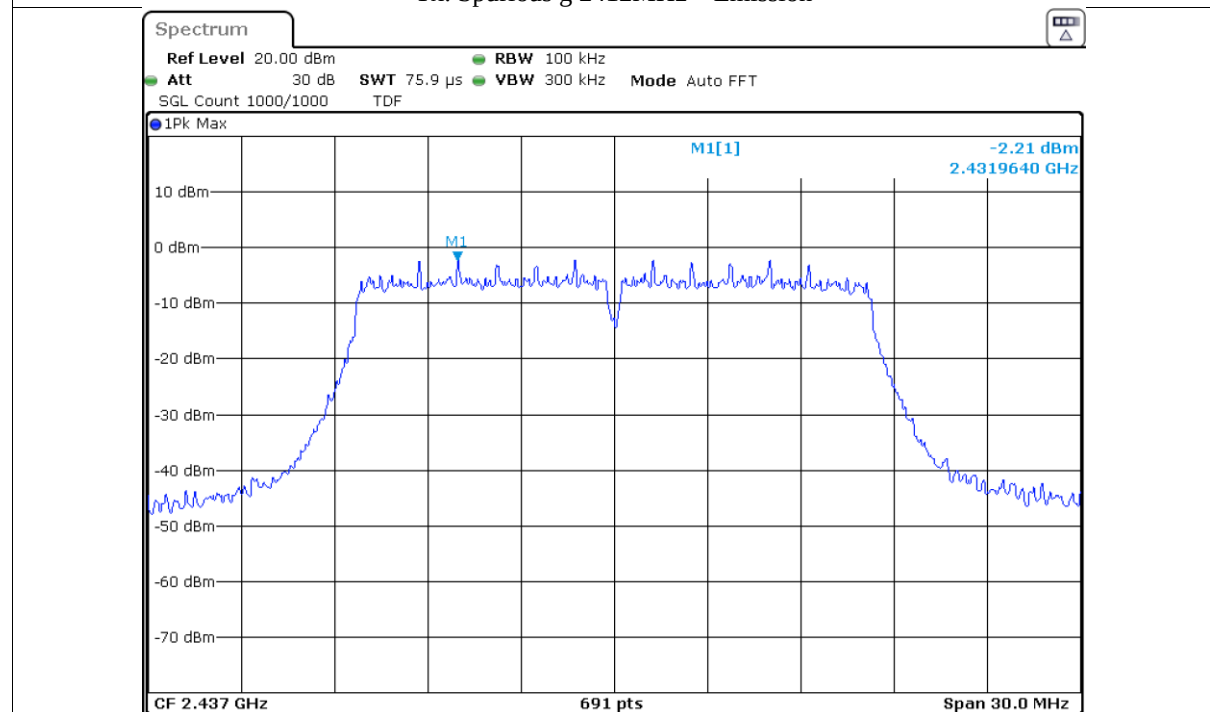
Tx. Spurious b 2462MHz Emission



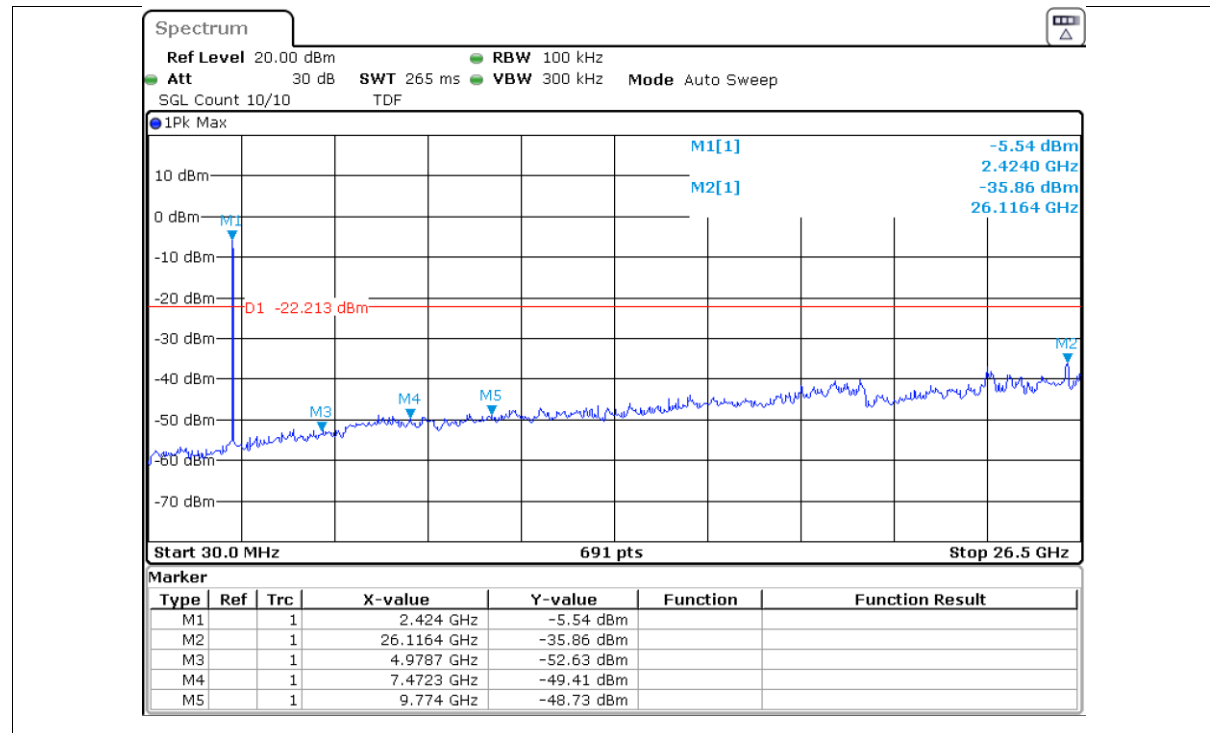
Tx. Spurious g 2412MHz Ref



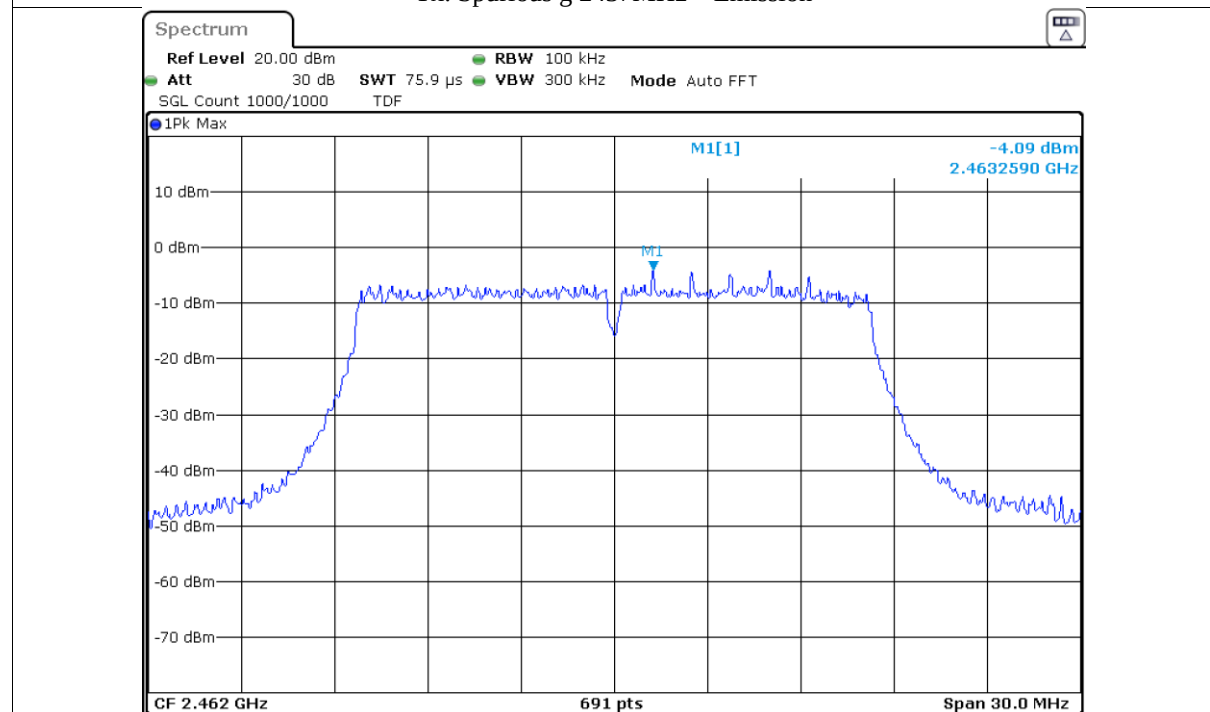
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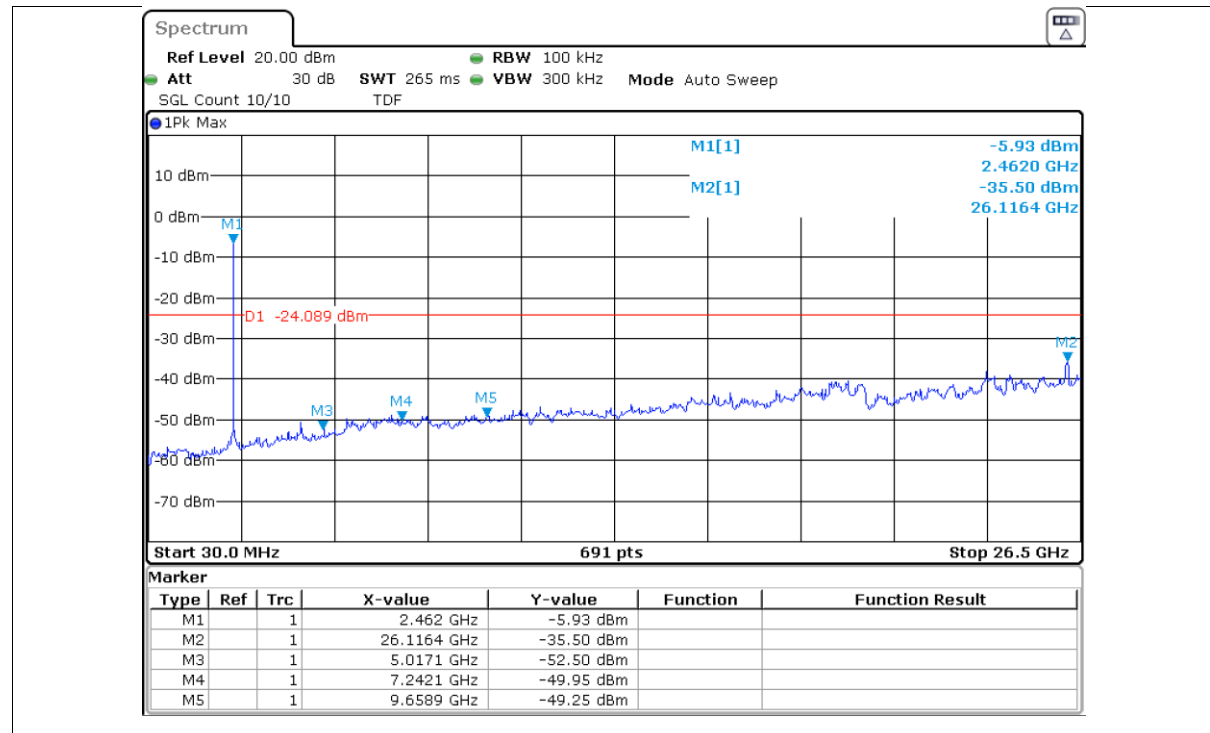
Tx. Spurious g 2437MHz Ref



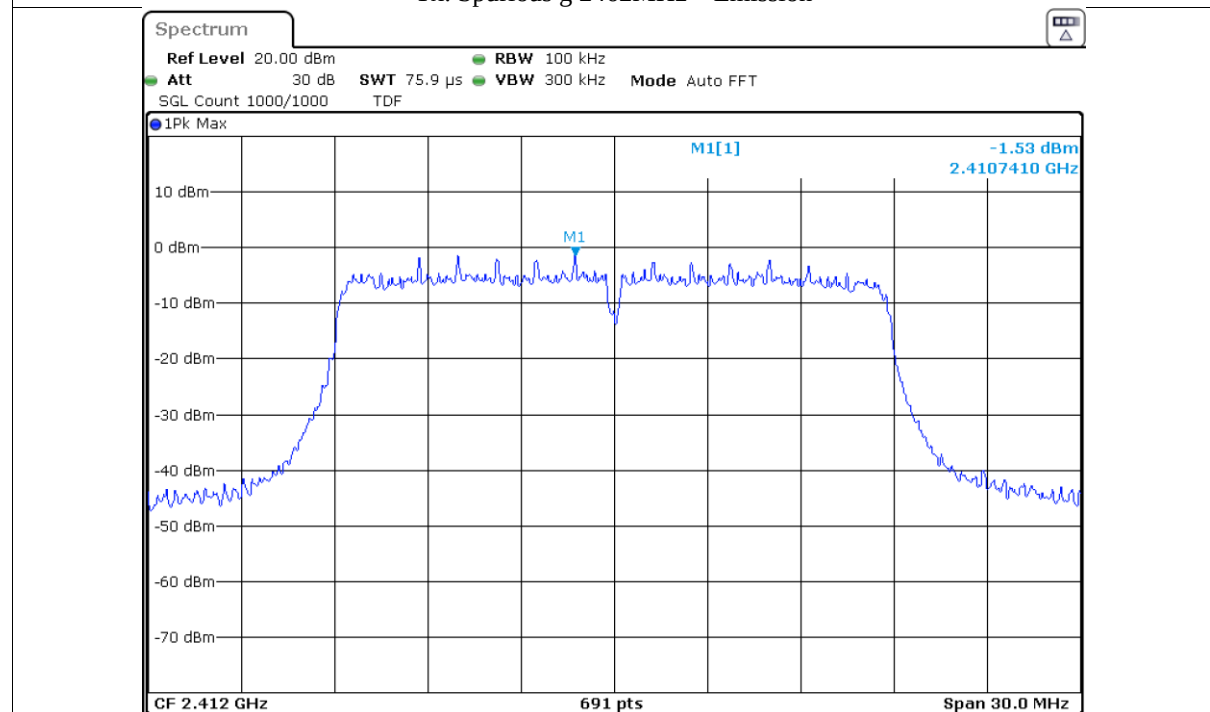
Tx. Spurious g 2437MHz Emission



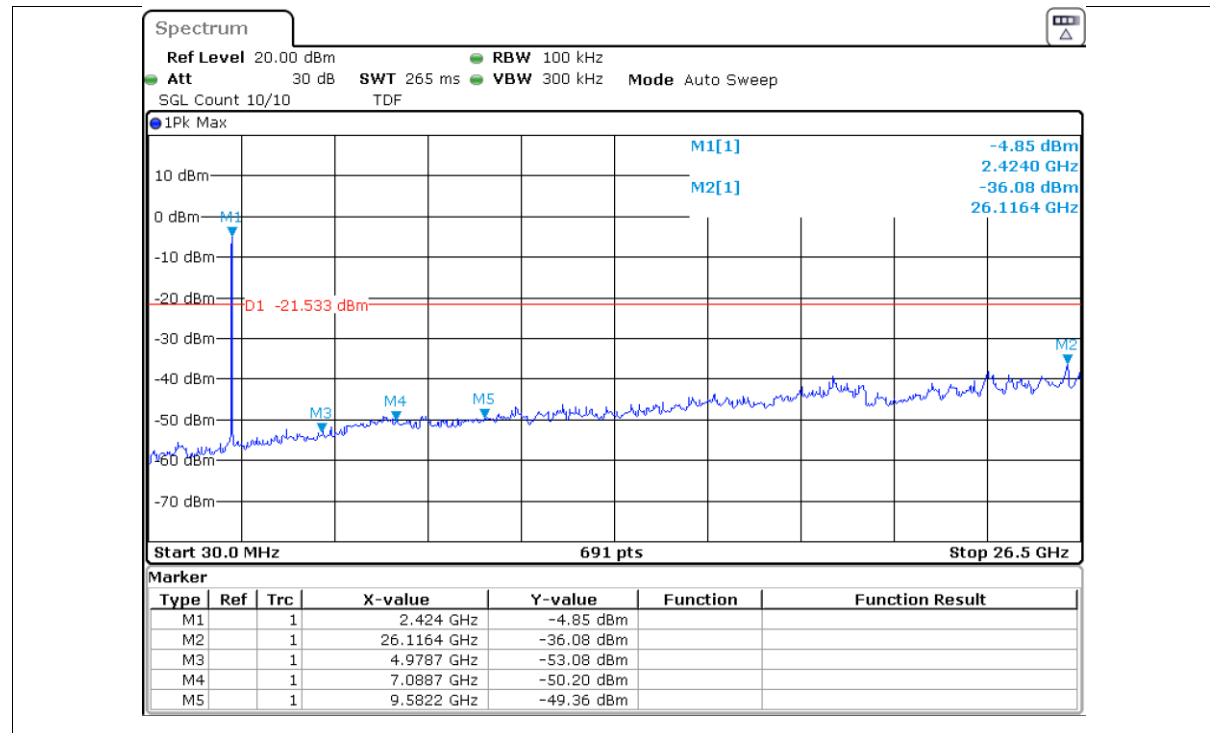
Tx. Spurious g 2462MHz Ref



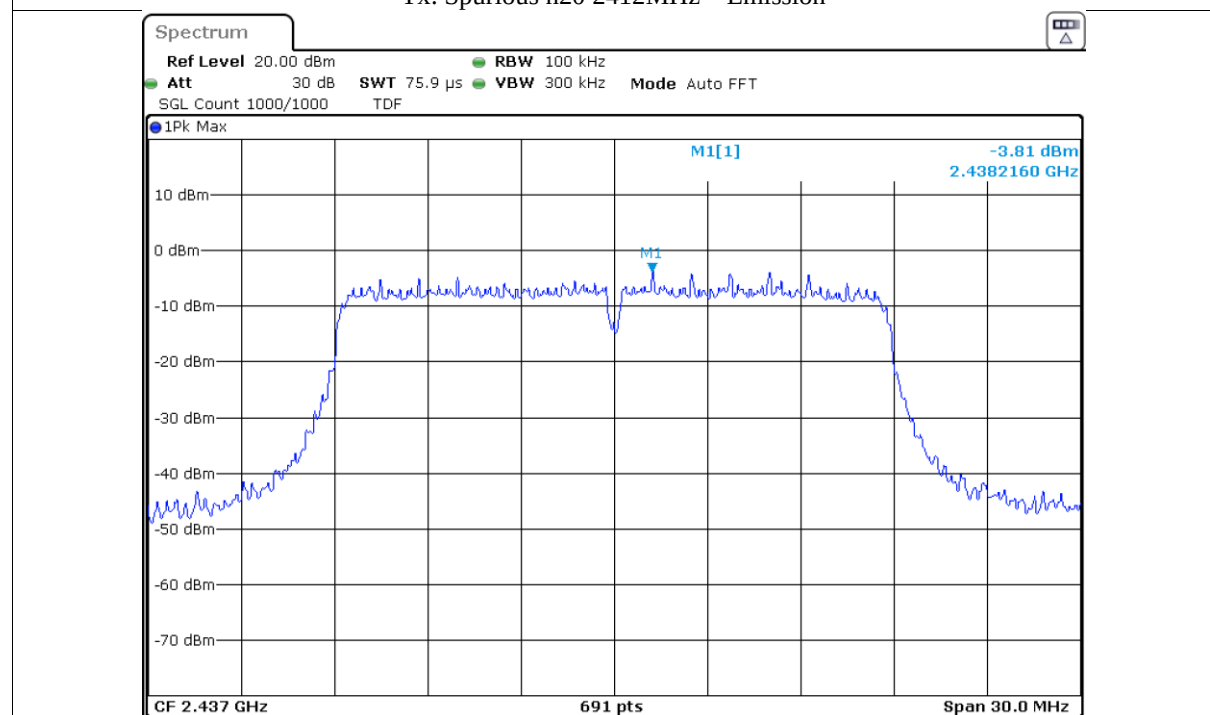
Tx. Spurious g 2462MHz Emission



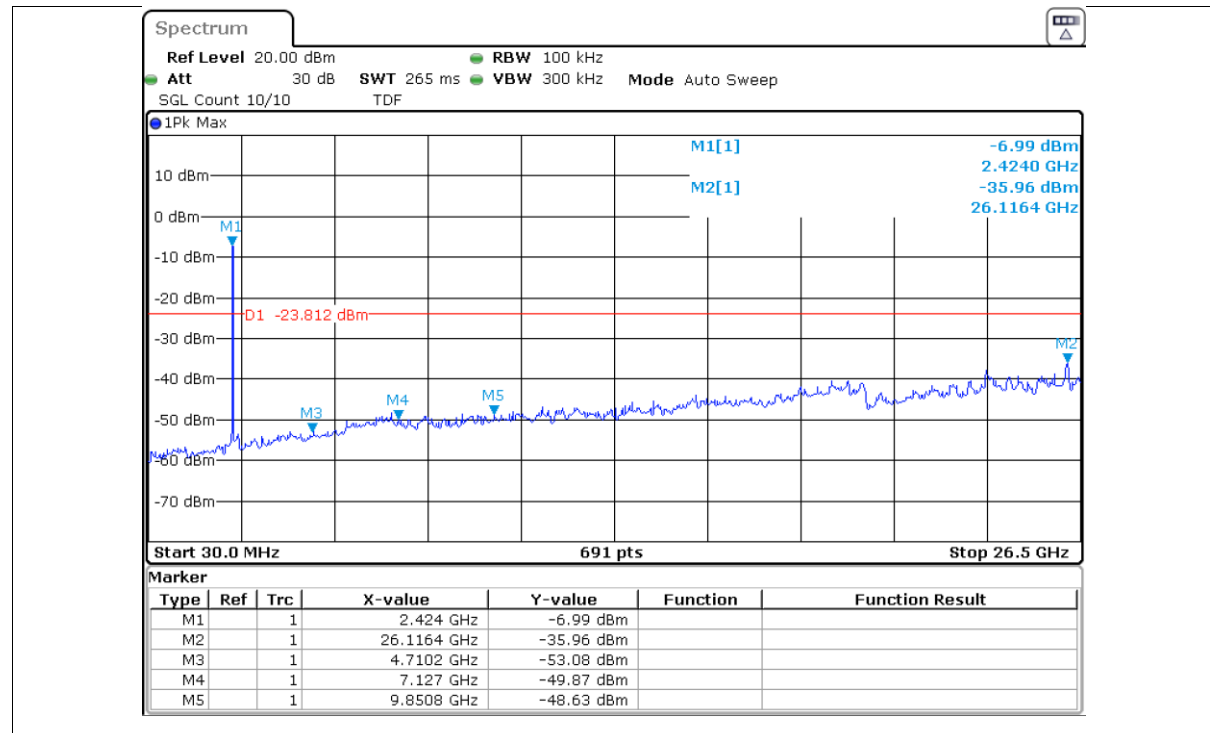
Tx. Spurious n20 2412MHz Ref



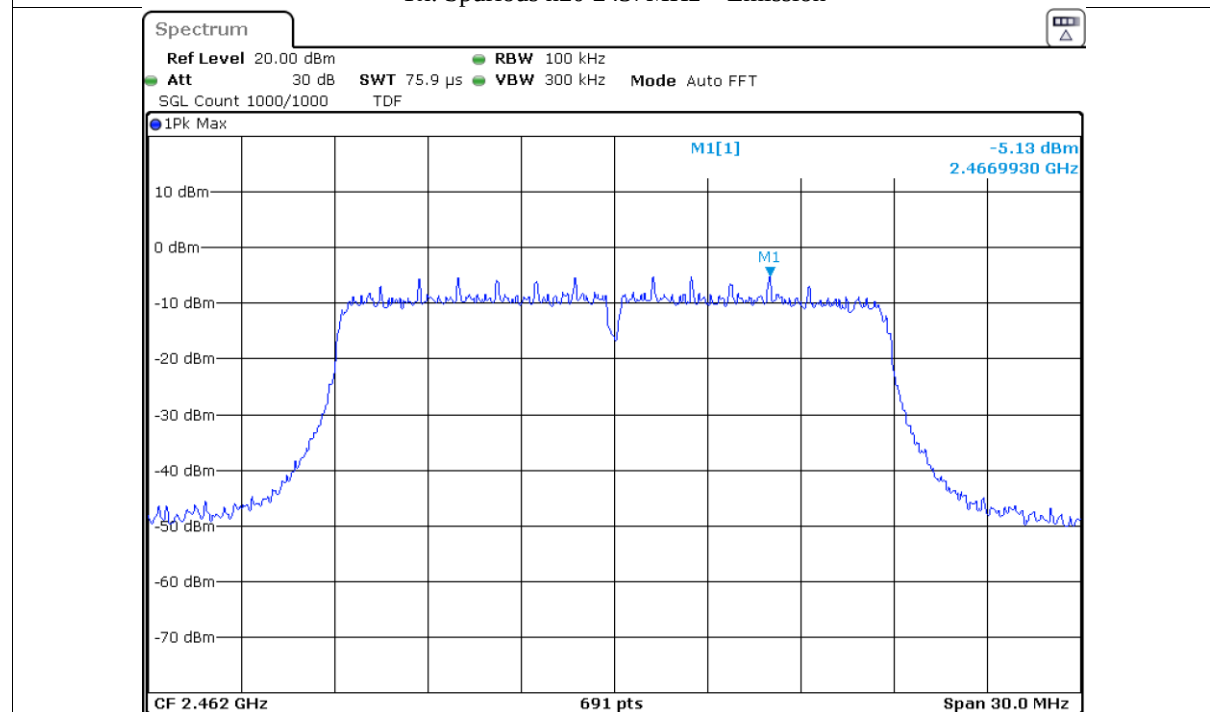
Tx. Spurious n20 2412MHz Emission



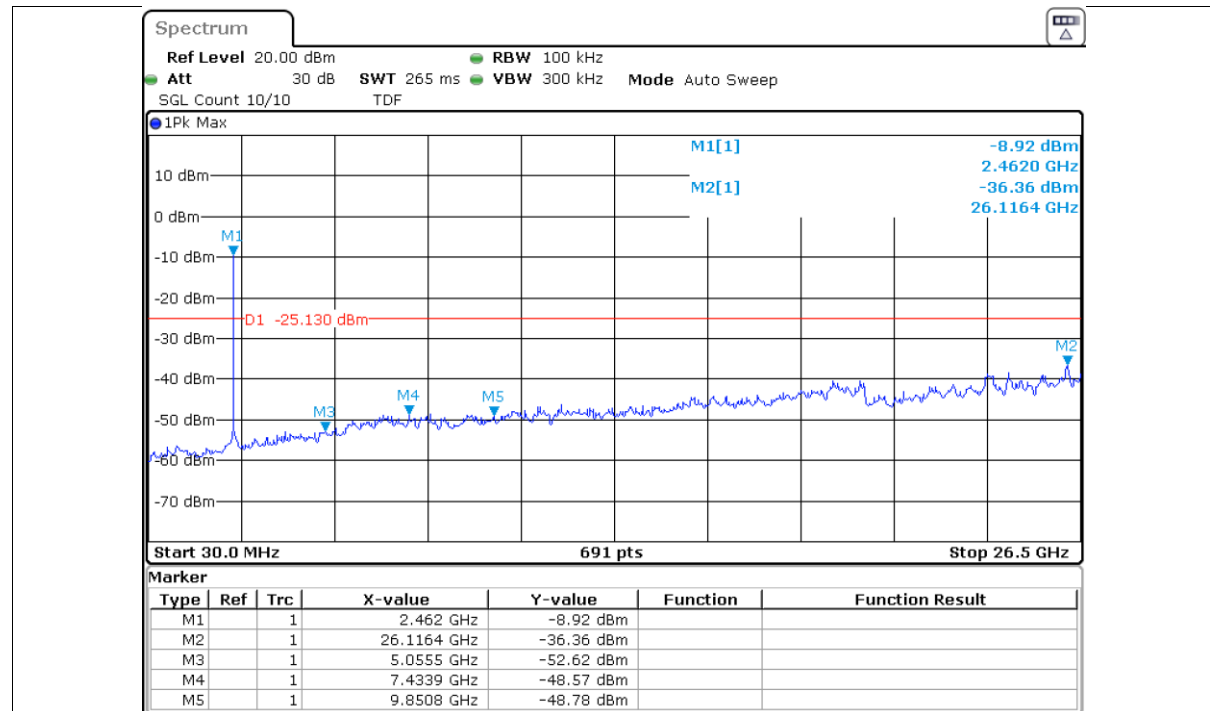
Tx. Spurious n20 2437MHz Ref



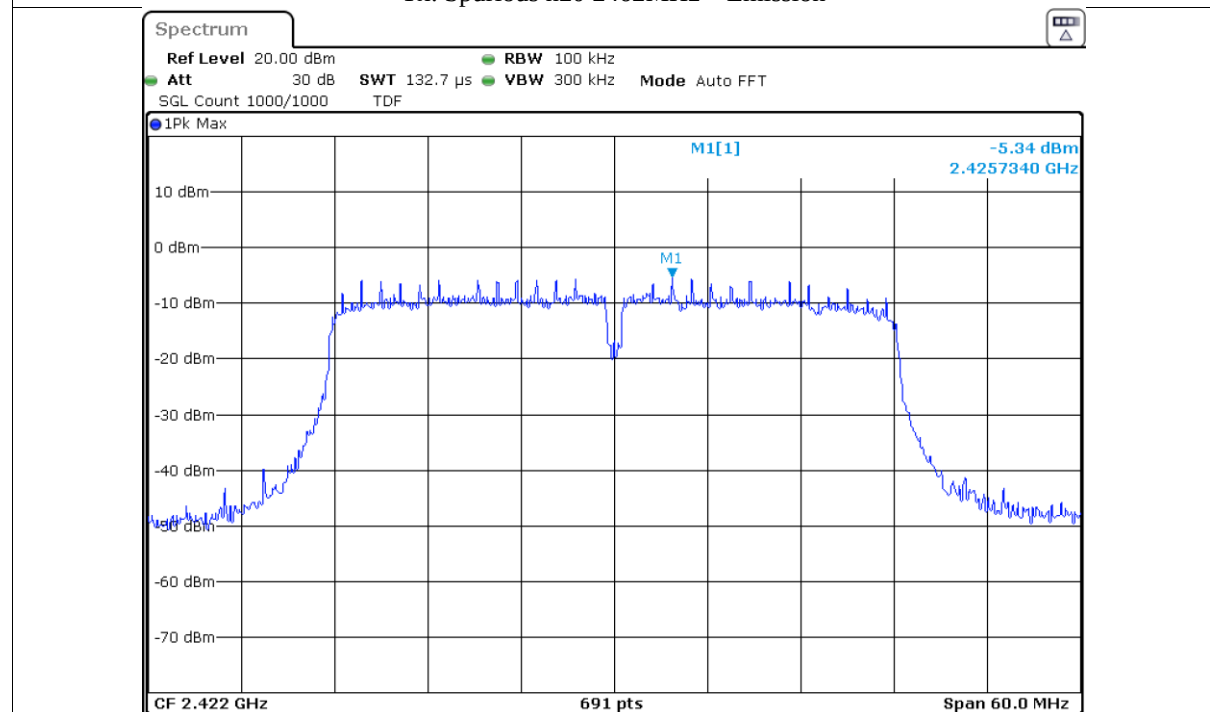
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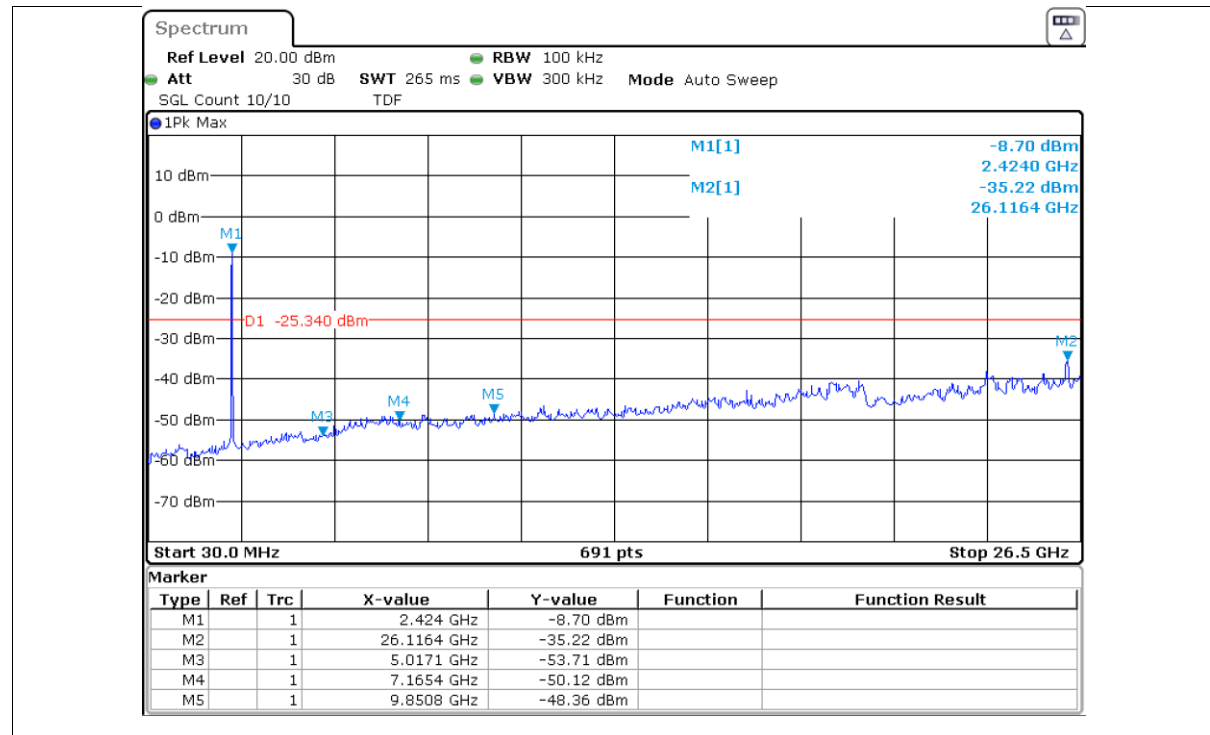
Tx. Spurious n20 2462MHz Ref



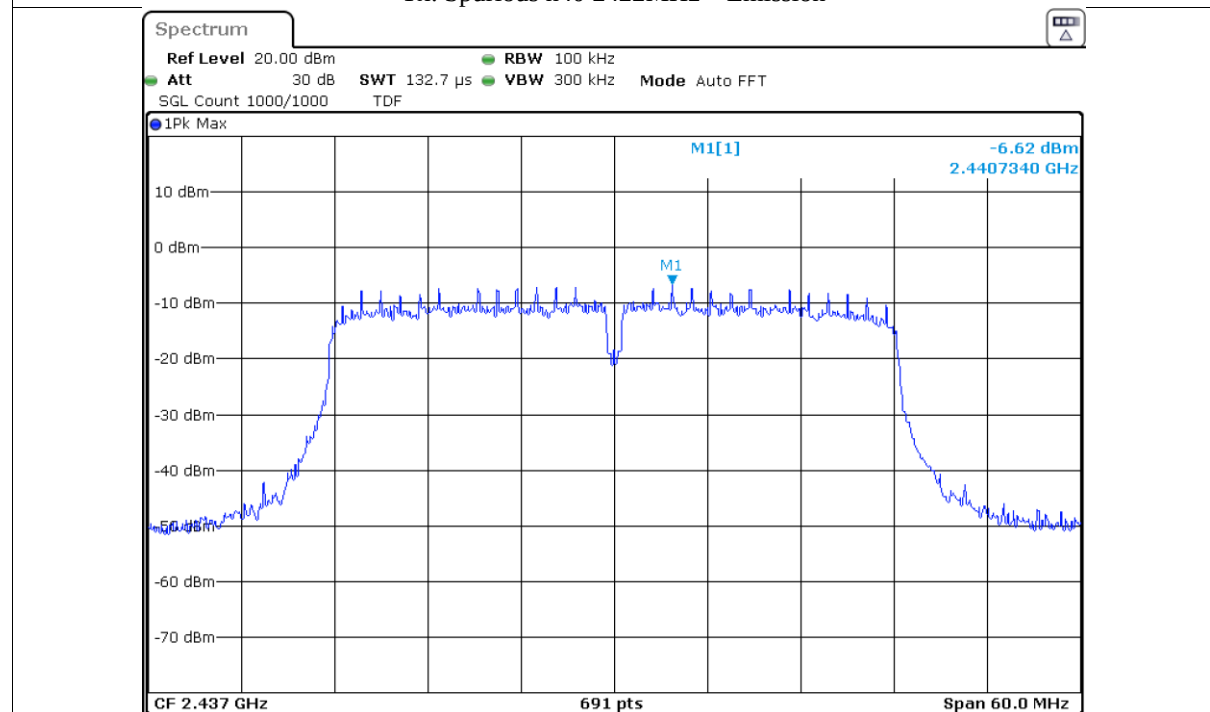
Tx. Spurious n20 2462MHz Emission



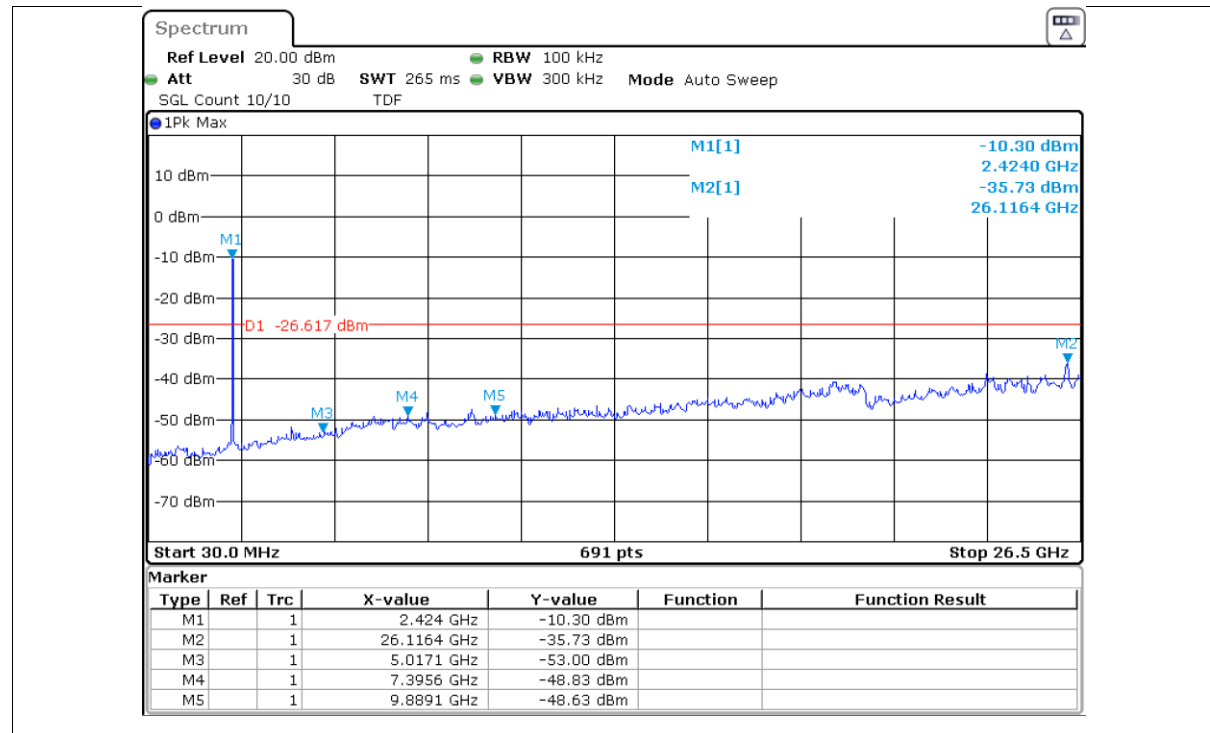
Tx. Spurious n40 2422MHz Ref



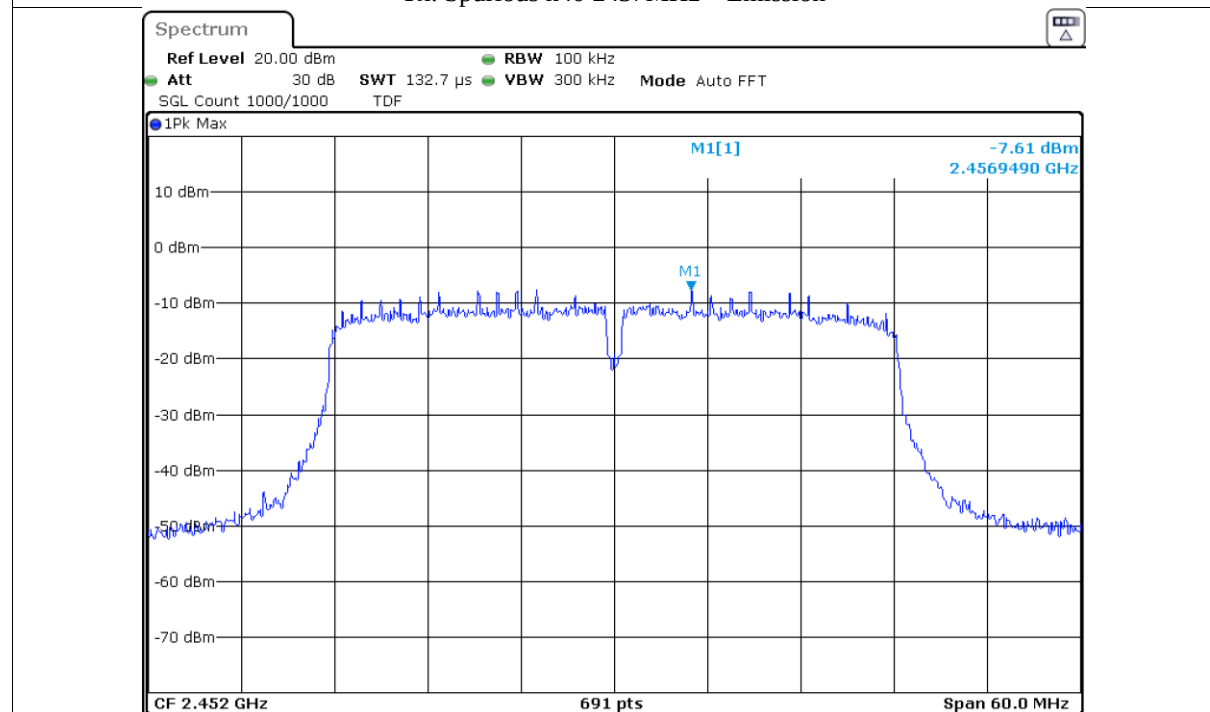
Tx. Spurious n40 2422MHz Emission



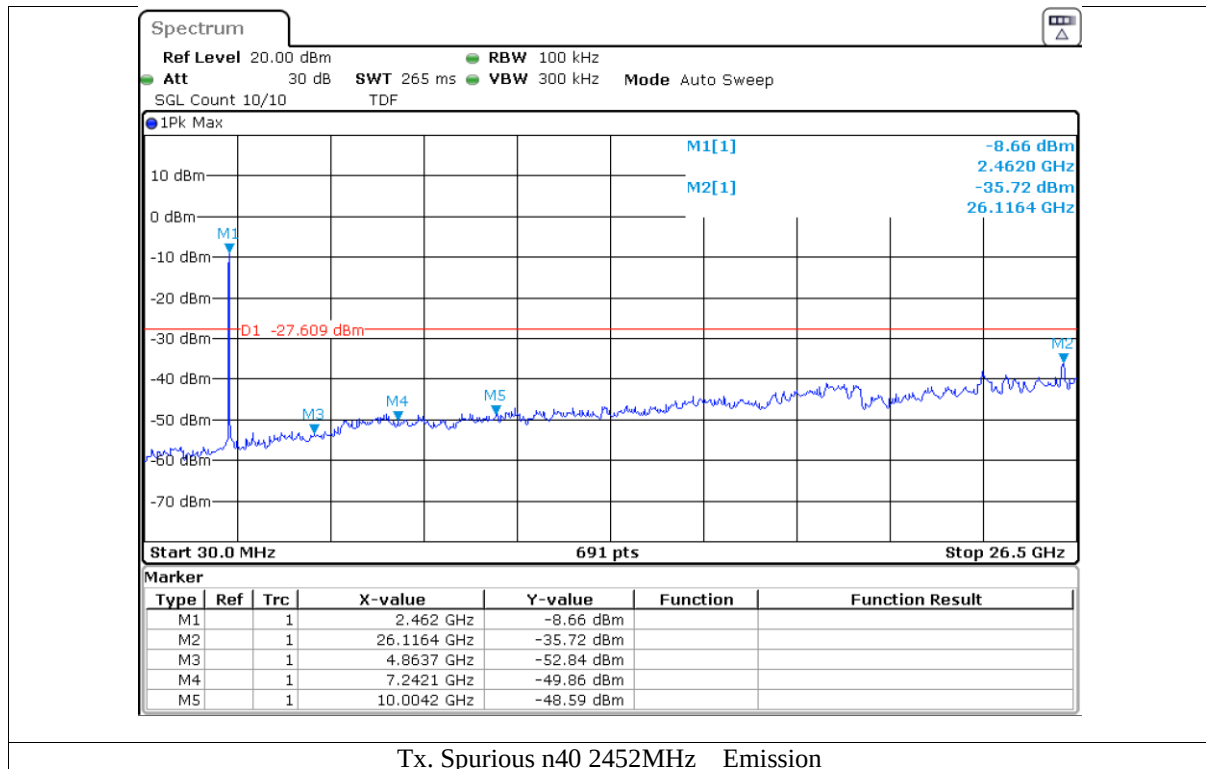
Tx. Spurious n40 2437MHz Ref



Tx. Spurious n40 2437MHz Emission



Tx. Spurious n40 2452MHz Ref



Applicant: CrunchLabs LLC

Date of Test: Jul 31, 2026

Model: CL-040027

4.5 Out of Band Radiated Emissions (for emissions in 4.4 above that are less than 20dB below carrier), FCC Rule 15.247(d):

For out of band emissions that are close to or that exceed the 20dB attenuation requirement described in the specification, radiated measurements were performed at a 3m separation distance to determine whether these emissions complied with the general radiated emission requirement.

☒ Not required, since all emissions are more than 20dB below fundamental.

☐ See attached data sheet.

Applicant: CrunchLabs LLC

Date of Test: Aug 26, 2026

Model: CL-040027

4.6 Transmitter Radiated Emissions in Restricted Bands, FCC Rule 15.35(b) (c):

Data is included of the worst case configuration (the configuration which resulted in the highest emission levels). A sample calculation, configuration photographs and data tables of the emissions are included. All measurements were performed with peak detection unless otherwise specified.

The data on the following pages list the significant emission frequencies, the limit and the margin of compliance.

Applicant: CrunchLabs LLC

Date of Test: Aug 26, 2026

Model: CL-040027

4.7 Field Strength Calculation

The field strength is calculated by adding the reading on the Spectrum Analyzer to the factors associated with preamplifiers (if any), antennas, cables, pulse desensitization and average factors (when specified limit is in average and measurements are made with peak detectors). A sample calculation is included below.

$$FS = RA + AF + CF - AG + PD$$

Where FS = Field Strength in dB μ V/m
 RA = Receiver Amplitude (including preamplifier) in dB μ V
 CF = Cable Attenuation Factor in dB
 AF = Antenna Factor in dB/m
 AG = Amplifier Gain in dB
 PD = Pulse Desensitization in dB

In the radiated emission table which follows, the reading shown on the data table may reflect the preamplifier gain. An example of the calculations, where the reading does not reflect the preamplifier gain, follows:

$$FS = RA + AF + CF - AG + PD$$

Example

Assume a receiver reading of 62.0 dB μ V is obtained. The antenna factor of 7.4 dB/m and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted. The pulse desensitization factor of the spectrum analyzer was 0 dB. The net field strength for comparison to the appropriate emission limit is 42 dB μ V/m. This value in dB μ V/m was converted to its corresponding level in μ V/m.

$$RA = 62.0 \text{ dB}\mu\text{V}$$

$$AF = 7.4 \text{ dB/m}$$

$$CF = 1.6 \text{ dB}$$

$$AG = 29.0 \text{ dB}$$

$$PD = 0 \text{ dB}$$

$$FS = 62 + 7.4 + 1.6 - 29 + 0 = 42 \text{ dB}\mu\text{V/m}$$

$$\text{Level in mV/m} = \text{Common Antilogarithm} [(42 \text{ dB}\mu\text{V/m})/20] = 125.9 \mu\text{V/m}$$

Applicant: CrunchLabs LLC

Date of Test: Aug 26, 2026

Model: CL-040027

4.8 Radiated Spurious Emission

Worst Case Radiated Spurious Emission
at 2389.828MHz
is passed by 1.4dB margin.

For the electronic filing, the worst case radiated emission configuration photographs are saved with filename: radiated photos.pdf.

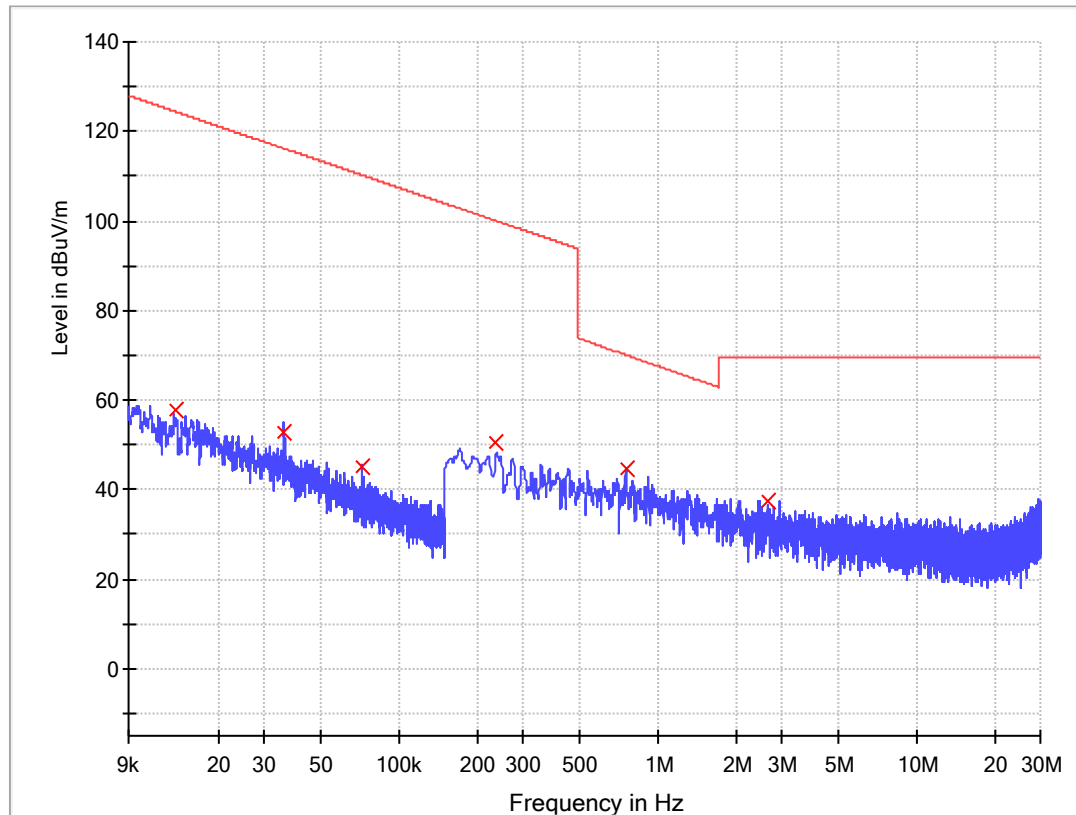
Applicant: CrunchLabs LLC

Date of Test: Aug 26, 2026

Worst Case Operating Mode:

Model: CL-040027

Simultaneous transmission



Limit and Margin

Frequency (MHz)	Quasi Peak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
0.013634	57.9	1000.0	0.200	19.8	-67.0	124.9
0.035879	52.8	1000.0	0.200	18.1	-63.7	116.5
0.071825	45.2	1000.0	0.200	17.7	-65.3	110.5
0.236565	50.5	10000.0	9.000	17.1	-49.6	100.1
0.751975	44.7	10000.0	9.000	16.6	-25.4	70.1
2.647450	37.3	10000.0	9.000	14.7	-32.2	69.5

Remark:

1. Corr. (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)
2. Quasi Peak (dBμV/m) = Corr. (dB/m) + Read Level (dBμV)
3. Margin (dB) = Level (dBμV/m) - Limit Line (dBμV/m)

Applicant: CrunchLabs LLC

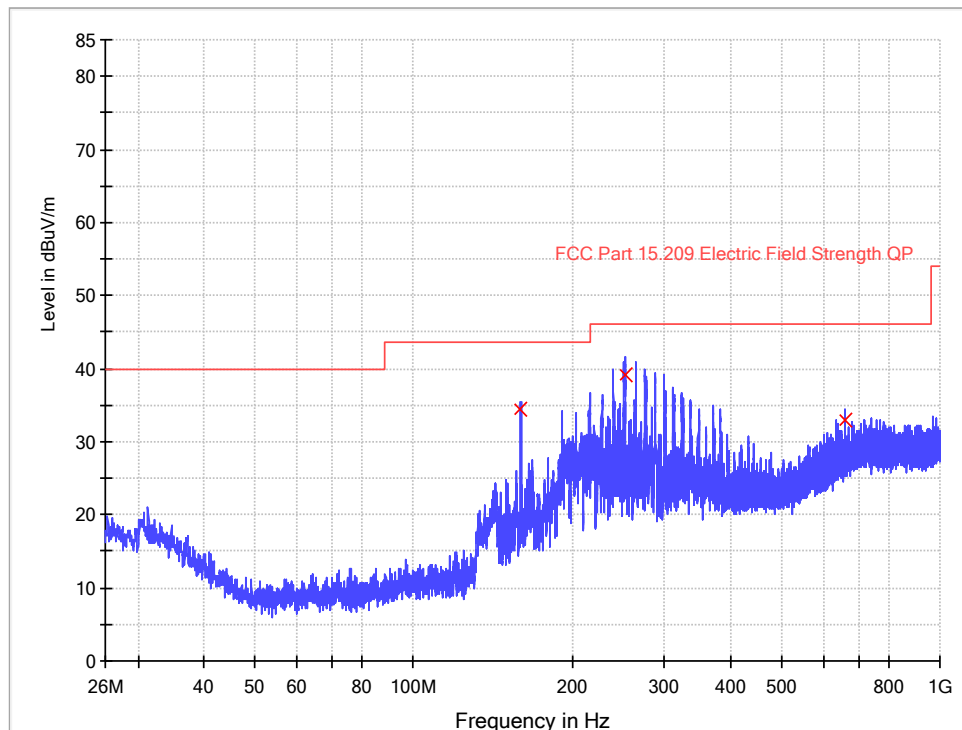
Date of Test: Aug 26, 2026

Worst Case Operating Mode:

Model: CL-040027

Simultaneous transmission

ANT Polarity: Horizontal



Limit and Margin

Frequency (MHz)	Quasi Peak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
159.989933	34.5	1000.0	120.000	H	17	-9.0	43.5
252.000467	39.0	1000.0	120.000	H	20	-7.0	46.0
662.768733	33.0	1000.0	120.000	H	30	-13.0	46.0

Remark:

1. Corr. (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)
2. Quasi Peak (dBμV/m) = Corr. (dB/m) + Read Level (dBμV)
3. Margin (dB) = Level (dBμV/m) - Limit Line (dBμV/m)

Applicant: CrunchLabs LLC

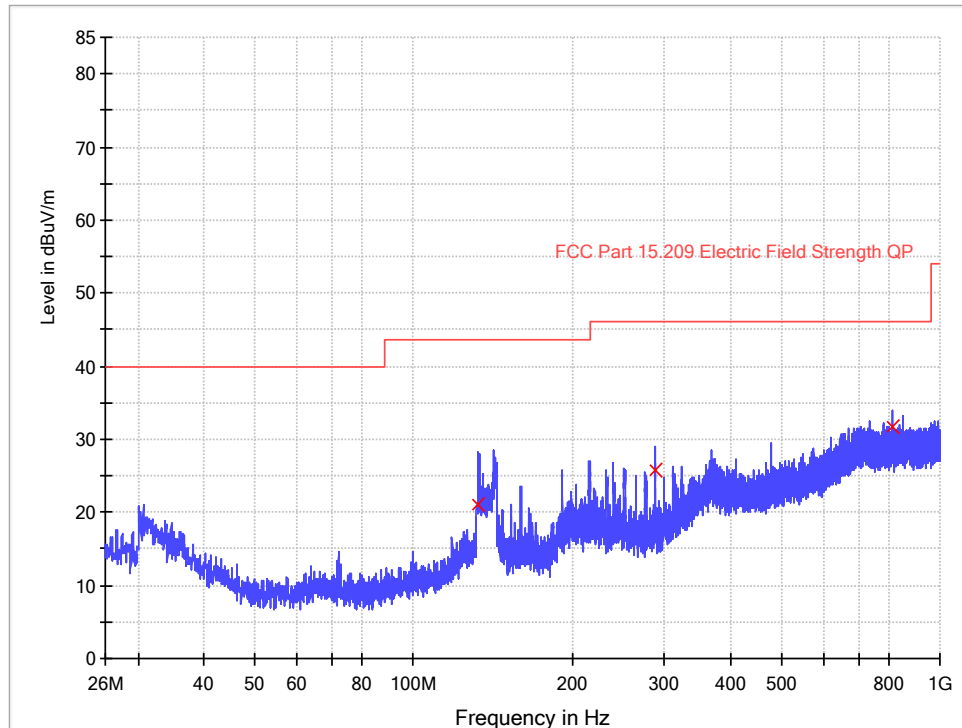
Date of Test: Aug 26, 2026

Worst Case Operating Mode:

Model: CL-040027

Simultaneous transmission

ANT Polarity: Vertical



Limit and Margin

Frequency (MHz)	Quasi Peak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
132.912733	21.1	1000.0	120.000	V	15	-22.4	43.5
288.006000	25.7	1000.0	120.000	V	20	-20.3	46.0
812.277733	31.7	1000.0	120.000	V	32	-14.3	46.0

Remark:

1. Corr. (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)
2. Quasi Peak (dBμV/m) = Corr. (dB/m) + Read Level (dBμV)
3. Margin (dB) = Level (dBμV/m) - Limit Line (dBμV/m)

Applicant: CrunchLabs LLC

Date of Test: Aug 26, 2026

Worst Case Operating Mode:

Model: CL-040027

Transmitting (802.11b-Channel 01)

Radiated Emissions (above 1GHz)

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dBμV/m)	Peak Limit at 3m (dBμV/m)	Margin (dB)
Vertical	4824.000	56.2	36.8	33.5	52.9	74.0	-21.1
Vertical	*2389.971	65.6	36.4	29.1	58.3	74.0	-15.7

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dBμV/m)	Average Limit at 3m (dBμV/m)	Margin (dB)
Vertical	4824.000	45.7	36.8	33.5	42.4	54.0	-11.6
Vertical	*2389.971	54.0	36.4	29.1	46.7	54.0	-7.3

- NOTES:
1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz/VBW=10Hz for average value.
 2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
 3. Negative value in the margin column shows emission below limit.
 4. Horn antenna used for the emission over 1000MHz.
- * Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Applicant: CrunchLabs LLC

Date of Test: Aug 26, 2026

Worst Case Operating Mode:

Model: CL-040027

Transmitting (802.11b-Channel 06)

Radiated Emissions (above 1GHz)

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dBμV/m)	Peak Limit at 3m (dBμV/m)	Margin (dB)
Vertical	4874.000	59.1	36.7	33.4	55.8	74.0	-18.2
Vertical	7311.000	55.1	36.6	35.8	54.3	74.0	-19.7

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dBμV/m)	Average Limit at 3m (dBμV/m)	Margin (dB)
Vertical	4874.000	49.6	36.7	33.4	46.3	54.0	-7.7
Vertical	7311.000	42.5	36.6	35.8	41.7	54.0	-12.3

- NOTES:
1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz / VBW=10Hz for average value.
 2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
 3. Negative value in the margin column shows emission below limit.
 4. Horn antenna used for the emission over 1000MHz.
- * Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Applicant: CrunchLabs LLC

Date of Test: Aug 26, 2026

Worst Case Operating Mode:

Model: CL-040027

Transmitting (802.11b-Channel 11)

Radiated Emissions (above 1GHz)

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dBμV/m)	Peak Limit at 3m (dBμV/m)	Margin (dB)
Vertical	4924.000	57.9	36.8	33.3	54.4	74.0	-19.6
Vertical	*2483.557	62.2	36.5	29.3	55.0	74.0	-19.0

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dBμV/m)	Average Limit at 3m (dBμV/m)	Margin (dB)
Vertical	4924.000	48.6	36.8	33.3	45.1	54.0	-8.9
Vertical	*2483.557	51.7	36.5	29.3	44.5	54.0	-9.5

- NOTES:
1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz / VBW=10Hz for average value.
 2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
 3. Negative value in the margin column shows emission below limit.
 4. Horn antenna used for the emission over 1000MHz.
- * Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Applicant: CrunchLabs LLC

Date of Test: Aug 26, 2026

Worst Case Operating Mode:

Model: CL-040027

Transmitting (802.11g-Channel 01)

Radiated Emissions (above 1GHz)

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dBμV/m)	Peak Limit at 3m (dBμV/m)	Margin (dB)
Vertical	4824.000	56.1	36.8	33.5	52.8	74.0	-21.2
Vertical	*2389.828	79.9	36.4	29.1	72.6	74.0	-1.4

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dBμV/m)	Average Limit at 3m (dBμV/m)	Margin (dB)
Vertical	4824.000	44.9	36.8	33.5	41.6	54.0	-12.4
Vertical	*2389.828	59.0	36.4	29.1	51.7	54.0	-2.3

- NOTES:
1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz/VBW=10Hz for average value.
 2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
 3. Negative value in the margin column shows emission below limit.
 4. Horn antenna used for the emission over 1000MHz.
- * Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Applicant: CrunchLabs LLC

Date of Test: Aug 26, 2026

Worst Case Operating Mode:

Model: CL-040027

Transmitting (802.11g-Channel 06)

Radiated Emissions (above 1GHz)

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dBμV/m)	Peak Limit at 3m (dBμV/m)	Margin (dB)
Vertical	4874.000	52.4	36.7	33.4	49.1	74.0	-24.9
Vertical	7311.000	58.5	36.6	35.8	57.7	74.0	-16.3

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dBμV/m)	Average Limit at 3m (dBμV/m)	Margin (dB)
Vertical	4874.000	42.3	36.7	33.4	39.0	54.0	-15.0
Vertical	7311.000	47.8	36.6	35.8	47.0	54.0	-7.0

- NOTES:
1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz / VBW=10Hz for average value.
 2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
 3. Negative value in the margin column shows emission below limit.
 4. Horn antenna used for the emission over 1000MHz.
- * Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Applicant: CrunchLabs LLC

Date of Test: Aug 26, 2026

Worst Case Operating Mode:

Model: CL-040027

Transmitting (802.11g-Channel 11)

Radiated Emissions (above 1GHz)

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dBμV/m)	Peak Limit at 3m (dBμV/m)	Margin (dB)
Vertical	4924.000	53.1	36.8	33.3	49.6	74.0	-24.4
Vertical	*2483.558	69.5	36.5	29.3	62.3	74.0	-11.7

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dBμV/m)	Average Limit at 3m (dBμV/m)	Margin (dB)
Vertical	4924.000	43.1	36.8	33.3	39.6	54.0	-14.4
Vertical	*2483.558	56.5	36.5	29.3	49.3	54.0	-4.7

- NOTES:
1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz / VBW=10Hz for average value.
 2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
 3. Negative value in the margin column shows emission below limit.
 4. Horn antenna used for the emission over 1000MHz.
- * Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Applicant: CrunchLabs LLC

Date of Test: Aug 26, 2026

Worst Case Operating Mode:

Model: CL-040027

Transmitting (802.11n20-Channel 01)

Radiated Emissions (above 1GHz)

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dBμV/m)	Peak Limit at 3m (dBμV/m)	Margin (dB)
Vertical	4824.000	54.1	36.8	33.5	50.8	74.0	-23.2
Vertical	*2389.632	75.5	36.4	29.1	68.2	74.0	-5.8

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dBμV/m)	Average Limit at 3m (dBμV/m)	Margin (dB)
Vertical	4824.000	41.2	36.8	33.5	37.9	54.0	-16.1
Vertical	*2389.632	57.2	36.4	29.1	49.9	54.0	-4.1

- NOTES:
1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz/VBW=10Hz for average value.
 2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
 3. Negative value in the margin column shows emission below limit.
 4. Horn antenna used for the emission over 1000MHz.
- * Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Applicant: CrunchLabs LLC

Date of Test: Aug 26, 2026

Worst Case Operating Mode:

Model: CL-040027

Transmitting (802.11n20-Channel 06)

Radiated Emissions (above 1GHz)

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dBμV/m)	Peak Limit at 3m (dBμV/m)	Margin (dB)
Vertical	4874.000	52.4	36.7	33.4	49.1	74.0	-24.9
Vertical	7311.000	55.8	36.6	35.8	55.0	74.0	-19.0

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dBμV/m)	Average Limit at 3m (dBμV/m)	Margin (dB)
Vertical	4874.000	39.7	36.7	33.4	36.4	54.0	-17.6
Vertical	7311.000	45.5	36.6	35.8	44.7	54.0	-9.3

- NOTES:
1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz / VBW=10Hz for average value.
 2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
 3. Negative value in the margin column shows emission below limit.
 4. Horn antenna used for the emission over 1000MHz.
- * Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Applicant: CrunchLabs LLC

Date of Test: Aug 26, 2026

Worst Case Operating Mode:

Model: CL-040027

Transmitting (802.11n20-Channel 11)

Radiated Emissions (above 1GHz)

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dBμV/m)	Peak Limit at 3m (dBμV/m)	Margin (dB)
Vertical	4924.000	54.0	36.8	33.3	50.5	74.0	-23.5
Vertical	*2483.557	71.0	36.5	29.3	63.8	74.0	-10.2

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dBμV/m)	Average Limit at 3m (dBμV/m)	Margin (dB)
Vertical	4924.000	40.7	36.8	33.3	37.2	54.0	-16.8
Vertical	*2483.557	55.4	36.5	29.3	48.2	54.0	-5.8

- NOTES:
1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz / VBW=10Hz for average value.
 2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
 3. Negative value in the margin column shows emission below limit.
 4. Horn antenna used for the emission over 1000MHz.
- * Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Applicant: CrunchLabs LLC

Date of Test: Aug 26, 2026

Worst Case Operating Mode:

Model: CL-040027

Transmitting (802.11n40-Channel 03)

Radiated Emissions (above 1GHz)

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dBμV/m)	Peak Limit at 3m (dBμV/m)	Margin (dB)
Vertical	4844.000	52.2	36.8	33.5	48.9	74.0	-25.1
Vertical	*2389.662	76.2	36.4	29.1	68.9	74.0	-5.1

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dBμV/m)	Average Limit at 3m (dBμV/m)	Margin (dB)
Vertical	4844.000	42.6	36.8	33.5	39.3	54.0	-14.7
Vertical	*2389.662	57.3	36.4	29.1	50.0	54.0	-4.0

- NOTES:
1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz/VBW=10Hz for average value.
 2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
 3. Negative value in the margin column shows emission below limit.
 4. Horn antenna used for the emission over 1000MHz.
- * Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Applicant: CrunchLabs LLC

Date of Test: Aug 26, 2026

Worst Case Operating Mode:

Model: CL-040027

Transmitting (802.11n40-Channel 06)

Radiated Emissions (above 1GHz)

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dBμV/m)	Peak Limit at 3m (dBμV/m)	Margin (dB)
Vertical	4874.000	55.8	36.7	33.4	52.5	74.0	-21.5
Vertical	7311.000	53.1	36.6	35.8	52.3	74.0	-21.7

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dBμV/m)	Average Limit at 3m (dBμV/m)	Margin (dB)
Vertical	4874.000	44.8	36.7	33.4	41.5	54.0	-12.5
Vertical	7311.000	42.3	36.6	35.8	41.5	54.0	-12.5

- NOTES:
1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz / VBW=10Hz for average value.
 2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
 3. Negative value in the margin column shows emission below limit.
 4. Horn antenna used for the emission over 1000MHz.
- * Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Applicant: CrunchLabs LLC

Date of Test: Aug 26, 2026

Worst Case Operating Mode:

Model: CL-040027

Transmitting (802.11n40-Channel 09)

Radiated Emissions (above 1GHz)

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dBμV/m)	Peak Limit at 3m (dBμV/m)	Margin (dB)
Vertical	4904.000	54.1	36.8	33.3	50.6	74.0	-23.4
Vertical	*2483.510	71.2	36.5	29.3	64.0	74.0	-10.0

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB/m)	Net at 3m (dBμV/m)	Average Limit at 3m (dBμV/m)	Margin (dB)
Vertical	4904.000	43.8	36.8	33.3	40.3	54.0	-13.7
Vertical	*2483.510	57.9	36.5	29.3	50.7	54.0	-3.3

- NOTES:
1. Peak detector is used, RBW=1MHz/VBW=3MHz for peak value and RBW=1MHz / VBW=10Hz for average value.
 2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
 3. Negative value in the margin column shows emission below limit.
 4. Horn antenna used for the emission over 1000MHz.
- * Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Applicant: CrunchLabs LLC

Date of Test: Aug 11, 2026

Model: CL-040027

4.9 Conducted Emission

Worst Case Conducted Emission (802.11b-Channel 01)
at 23.998000MHz is passed by 12.3dB margin.

For the electronic filing, the worst case radiated emission configuration photographs are saved with filename: conducted photos.pdf.

Applicant: CrunchLabs LLC

Date of Test: Aug 11, 2026

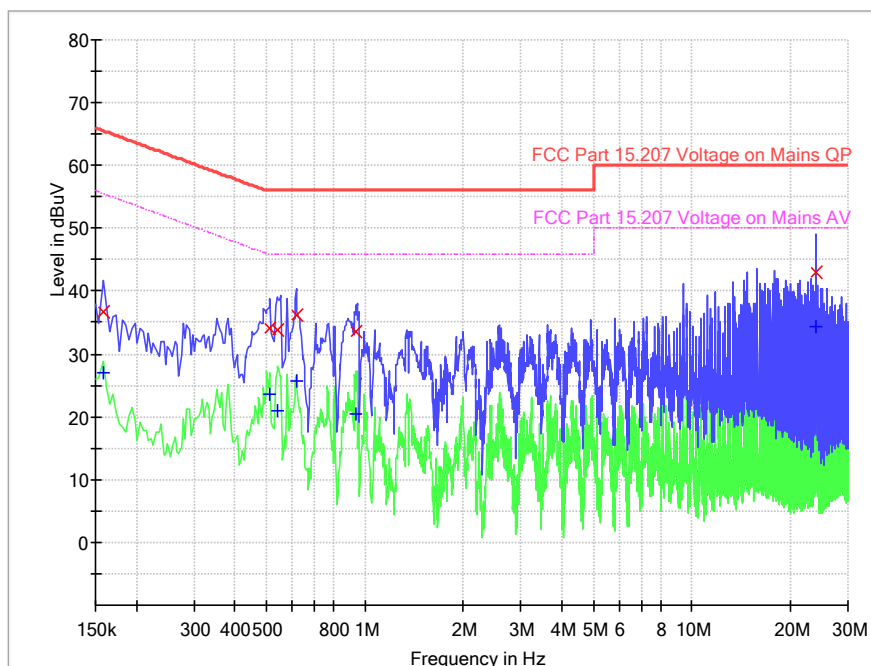
Model: CL-040027

Worst Case Operating Mode: Transmitting (802.11b-Channel 01)

Phase: Live

Graphic / Data Table

Conducted Emissions Pursuant to FCC 15.207: Emissions Requirement



Limit and Margin QP

Frequency (MHz)	Quasi Peak	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.158000	36.7	9.000	L1	9.8	-28.8	65.6
0.514000	34.2	9.000	L1	9.8	-21.8	56.0
0.542000	33.9	9.000	L1	9.8	-22.1	56.0
0.618000	36.2	9.000	L1	9.8	-19.8	56.0
0.942000	33.5	9.000	L1	9.8	-22.5	56.0
24.010000	43.1	9.000	L1	12.2	-16.9	60.0

Limit and Margin AV

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.158000	27.1	9.000	L1	9.8	-28.5	55.6
0.514000	23.5	9.000	L1	9.8	-22.5	46.0
0.542000	21.0	9.000	L1	9.8	-25.0	46.0
0.618000	25.7	9.000	L1	9.8	-20.3	46.0
0.942000	20.3	9.000	L1	9.8	-25.7	46.0
24.010000	34.4	9.000	L1	12.2	-15.6	50.0

Remark:

1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)
2. Margin (dB) = Level (dBuV) - Limit (dBuV)

Applicant: CrunchLabs LLC

Date of Test: Aug 11, 2026

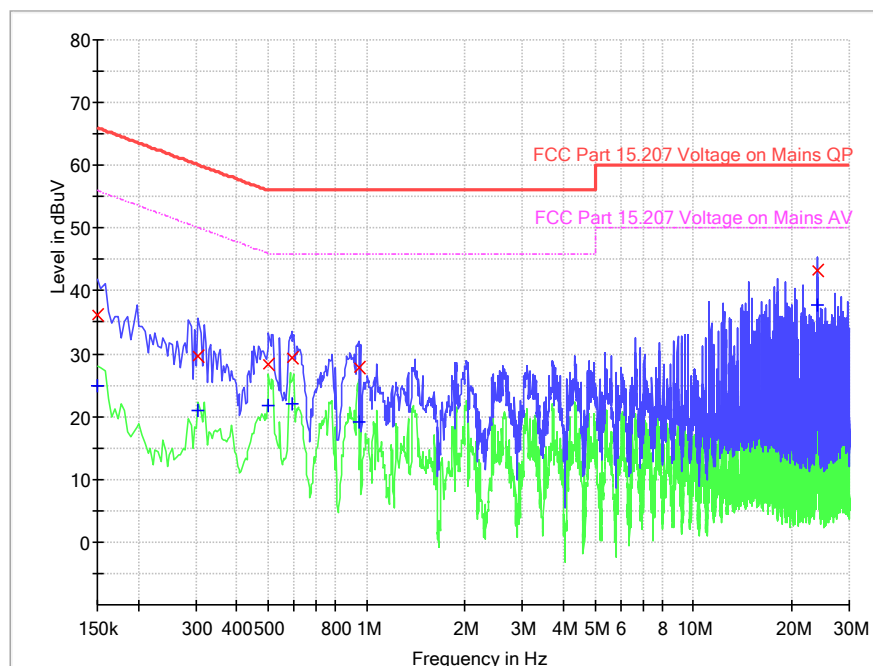
Model: CL-040027

Worst Case Operating Mode: Transmitting (802.11b-Channel 01)

Phase: Neutral

Graphic / Data Table

Conducted Emissions Pursuant to FCC 15.207: Emissions Requirement



Limit and Margin QP

Frequency (MHz)	Quasi Peak	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	36.1	9.000	N	9.7	-29.9	66.0
0.306000	29.5	9.000	N	9.7	-30.6	60.1
0.502000	28.2	9.000	N	9.7	-27.8	56.0
0.590000	29.3	9.000	N	9.7	-26.7	56.0
0.946000	27.7	9.000	N	9.6	-28.3	56.0
23.998000	43.2	9.000	N	11.8	-16.8	60.0

Limit and Margin AV

Frequency (MHz)	Average (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	25.0	9.000	N	9.7	-31.0	56.0
0.306000	21.0	9.000	N	9.7	-29.1	50.1
0.502000	21.8	9.000	N	9.7	-24.2	46.0
0.590000	21.9	9.000	N	9.7	-24.1	46.0
0.946000	19.2	9.000	N	9.6	-26.8	46.0
23.998000	37.7	9.000	N	11.8	-12.3	50.0

Remark:

1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)
2. Margin (dB) = Level (dBuV) - Limit (dBuV)

4.10 Radiated Emissions from Digital Section of Transceiver, FCC Ref: 15.109

- ☐ Not required - No digital part
- ☐ Test results are attached
- ☒ Included in the separated report.

Applicant: CrunchLabs LLC

Date of Test: Jul 31, 2026

Model: CL-040027

4.11 Transmitter Duty Cycle Calculation and Measurements, FCC Rule 15.35(b), (c)

The EUT antenna output port was connected to the input of the spectrum analyzer. The analyzer center frequency was set to EUT RF channel carrier. The SWEP function on the analyzer was set to ZERO SPAN. The Transmitter ON time was determined from the resultant time-amplitude display:

	See attached spectrum analyzer chart (s) for Transmitter timing
	See Transmitter timing diagram provided by manufacturer
x	Not applicable, duty cycle was not used.

5.0 Equipment Photographs

For electronic filing, the photographs are saved with filename: external photos.pdf & internal photos.pdf.

6.0 Product Labeling

For electronic filing, the FCC ID label artwork and location is saved with filename: label.pdf.

7.0 Technical Specifications

For electronic filing, the block diagram and circuit diagram are saved with filename: block.pdf and circuit.pdf respectively.

8.0 Instruction Manual

For electronic filing, a preliminary copy of the Instruction Manual is saved with filename: manual.pdf.

This manual will be provided to the end-user with each unit sold/leased in the United States.

9.0 Confidentiality Request

For electronic filing, the confidentiality request of the tested EUT is saved with filename: request.pdf.

10.0 Discussion of Pulse Desensitization

The determination of pulse desensitivity was made in accordance with Hewlett Packard Application Note 150-2, *Spectrum Analysis ... Pulsed RF*.

Pulse desensitivity is not applicable for this device since the transmitter transmits the RF signal continuously.

11.0 Test Equipment List

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
SZ061-13	BiConiLog Antenna	ETS	3142E	00217919	29-May-2025	29-May-2028
SZ185-04	EMI Receiver	R & S	ESR7	102466	1-Nov-2025	1-Nov-2026
SZ061-09	Horn Antenna	ETS	3115	00092347	20-Oct-2025	20-Oct-2028
SZ061-06	Active Loop Antenna	Electro-Metrics	EM-6876	217	5-May-2024	5-May-2027
SZ061-15	Double-Ridged Waveguide Horn Antenna	ETS	3116C-PA	00224718	14-Jun-2024	14-Jun-2027
SZ056-06	Spectrum Analyzer	R&S	FSV40	101101	1-Dec-2025	1-Dec-2026
SZ181-04	Preamplifier	Agilent	8449B	3008A02474	13-Apr-2026	13-Apr-2027
SZ188-01	Anechoic Chamber	ETS	RFD-F/A-100	4102	12-Dec-2021	12-Dec-2026
SZ062-02	RF Cable	RADIAL	RG 213U	--	1-May -2026	1-Nov-2026
SZ062-05	RF Cable	RADIAL	0.04-26.5GHz	--	1-May -2026	1-Nov-2026
SZ062-12	RF Cable	RADIAL	0.04-26.5GHz	--	1-May -2026	1-Nov-2026
SZ067-04	Notch Filter	Micro-Tronics	BRM5070 2-02	--	13-Apr-2026	13-Apr-2027
SZ182-02	RF Power Meter	Anritsu	ML2496A	1302005	13-Apr-2026	13-Apr-2027
SZ182-02-01	Power Sensor	Anritsu	MA2411B	1207429	13-Apr-2026	13-Apr-2027
SZ187-02	Two-Line V-Network	R&S	ENV216	100073	10-Apr-2026	10-Apr-2027
SZ188-03	Shielding Room	ETS	RFD-100	4100	20-Dec-2022	20-Dec-2027
SZ062-16	RF Cable	HUBER+SUHNER	CBL2-BN-1m	110127-2231000	4-Jun-2026	4-Jun-2027

***** End of Report *****