



Report No.: SUCR240200003406

Rev.: 01

Page: 1 of 139

TEST REPORT

Application No.: SUCR2402000034WM
Applicant: KonnectONE, Inc
Address of Applicant: 40 Lake Bellevue Drive, Suite 340, Bellevue, Washington 98005, U.S.A
Manufacturer: KonnectONE, Inc
Address of Manufacturer: 40 Lake Bellevue Drive, Suite 340, Bellevue, Washington 98005, U.S.A
EUT Description: smartphone
Model No.: m2467
Trade Mark: Moxee
FCC ID: 2APQU-M2467
Standards: FCC 47 CFR Part 2, Subpart J
FCC 47 CFR Part 15, Subpart C
Date of Receipt: 2024/02/07
Date of Test: 2024/02/28 to 2024/07/05
Date of Issue: 2024/07/08

Test Result :	PASS *
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* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:

Well Wei

Well Wei
Wireless Laboratory Manager



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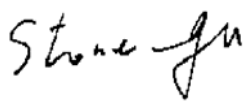
Report No.: SUCR240200003406

Rev.: 01

Page: 2 of 139

1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2024/07/08		Original

Prepared By		
		(Ives Cheng) / Test Engineer
Checked By		
		(Stone Gu) / Reviewer



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Report No.: SUCR240200003406

Rev.: 01

Page: 3 of 139

2 Test Summary

Test Item	FCC Rule No.	Test Method	Test Result	Result
Antenna Requirement	15.203/15.247(b)	--	Clause 4.1	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10 2013 Section 6.2	Clause 4.2	PASS
Duty Cycle	--	ANSI C63.10 2013 Section 11.6	Clause 4.3	For Report Purpose
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013 Section 11.9.1.3	Clause 4.4	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10 2013 Section 11.8 Option 2 / 6.9.3	Clause 4.5	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10 2013 Section 11.10.2	Clause 4.6	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	Clause 4.7	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	Clause 4.8	PASS
Radiated Spurious Emissions	15.247(d);15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 4.9	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d);15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 4.10	PASS



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Report No.: SUCR240200003406

Rev.: 01

Page: 4 of 139

Contents

1	Version	2
2	Test Summary	3
3	General Information	5
3.1	Details of Client	5
3.2	Test Location	5
3.3	Test Facility	5
3.4	General Description of EUT	6
3.5	Test Environment and Mode	8
3.6	Description of Support Units	8
3.7	Worst-case configuration and mode	8
4	Test results and Measurement Data	9
4.1	Antenna Requirement	9
4.2	AC Power Line Conducted Emissions	10
4.3	Duty Cycle	14
4.4	Conducted Output Power	15
4.5	DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	16
4.6	Power Spectral Density	17
4.7	Band-edge for RF Conducted Emissions	18
4.8	RF Conducted Spurious Emissions	19
4.9	Radiated Spurious Emissions	20
4.10	Restricted bands around fundamental frequency	23
5	Measurement Uncertainty (95% confidence levels, k=2)	26
6	Equipment List	27
7	Photographs - Setup Photos	29



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Report No.: SUCR240200003406

Rev.: 01

Page: 5 of 139

3 General Information

3.1 Details of Client

Applicant:	KonnectONE, Inc
Address of Applicant:	40 Lake Bellevue Drive, Suite 340, Bellevue, Washington 98005, U.S.A
Manufacturer:	KonnectONE, Inc
Address of Manufacturer:	40 Lake Bellevue Drive, Suite 340, Bellevue, Washington 98005, U.S.A

3.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	Ives Cheng, King-p Li

3.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• **A2LA (Certificate No. 6336.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

• **Innovation, Science and Economic Development Canada**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• **FCC –Designation Number: CN1312**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327



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Report No.: SUCR240200003406

Rev.: 01

Page: 6 of 139

3.4 General Description of EUT

EUT Description:	smartphone		
Model No.:	m2467		
Trade Mark:	Moxee		
Hardware Version:	J610_6835D4UFM10_G30U		
Software Version:	m2467_V01		
Power Supply:	5V		
IMEI:	RF Conducted	IMEI1:354085074901243 IMEI2:354085074901250	
	RSE & AC power line	357916025680198	
Operation Frequency:	802.11b/g/n(HT20):	2412MHz to 2462MHz	
	802.11n(HT40):	2422MHz to 2452MHz	
Modulation Type:	802.11b:	DSSS (DBPSK, DQPSK, CCK)	
	802.11g/n:	OFDM (BPSK, QPSK, 16QAM, 64QAM)	
Number of Channels:	802.11b/g/n(HT20): 11 802.11n(HT40): 7		
Channel Spacing:	5MHz		
Smart System:	☒ SISO	802.11b/g/n	
Antenna Type:	☐ External, ☒ Integrated		
Antenna Gain:	0.88dBi (Ant7)		
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.		
RF Cable:	1.0dB		
Remark: As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.			



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Report No.: SUCR240200003406

Rev.: 01

Page: 7 of 139

Operation Frequency of each channel (802.11b/g/n HT20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		
Operation Frequency of each channel (802.11n HT40)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
3	2422MHz	6	2437MHz	9	2452MHz		
4	2427MHz	7	2442MHz				
5	2432MHz	8	2447MHz				
Remark: In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:							
Channel		Frequency for 802.11 b/g/n (HT20)		Frequency for 802.11n (HT40)			
The Lowest channel		2412MHz		2422MHz			
The Middle channel		2437MHz		2437MHz			
The Highest channel		2462MHz		2452MHz			



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Report No.: SUCR240200003406

Rev.: 01

Page: 8 of 139

3.5 Test Environment and Mode

Environment Parameter	96~101 kPa Selected Values During Tests	
Relative Humidity	40-60 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~25	3.87
Remark: NV: Normal Voltage NT: Normal Temperature		

3.6 Description of Support Units

The EUT has been tested as an independent unit.

3.7 Worst-case configuration and mode

Low data rate was used to test on antenna port conducted tests and radiated spurious emissions since it has the highest maximum power. Following are the worst-case data rates set for test:

Modulation Type	SISO - Data Rate	MIMO - Data Rate
802.11b	1 Mbps	/
802.11g	6 Mbps	/
802.11n (HT 20)	MCS0 (6.5 Mbps)	/
802.11n (HT 40)	MCS0 (13.5 Mbps)	/



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Report No.: SUCR240200003406

Rev.: 01

Page: 9 of 139

4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(b)
15.203 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, 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. 15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The antenna is Integrated Antenna and no consideration of replacement. The best case gain of the antenna is 0.88dBi (Ant7). * <i>*Note: The antenna gain are derived from the gain information report provided by the manufacturer.</i> <i>Remark: As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.</i>	



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Report No.: SUCR240200003406

Rev.: 01

Page: 10 of 139

4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10: 2013 Section 6.2		
Test Frequency Range:	150kHz to 30MHz		
Receiver Setup:	RBW = 9kHz, VBW = 30kHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
Test Procedure:	1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.		



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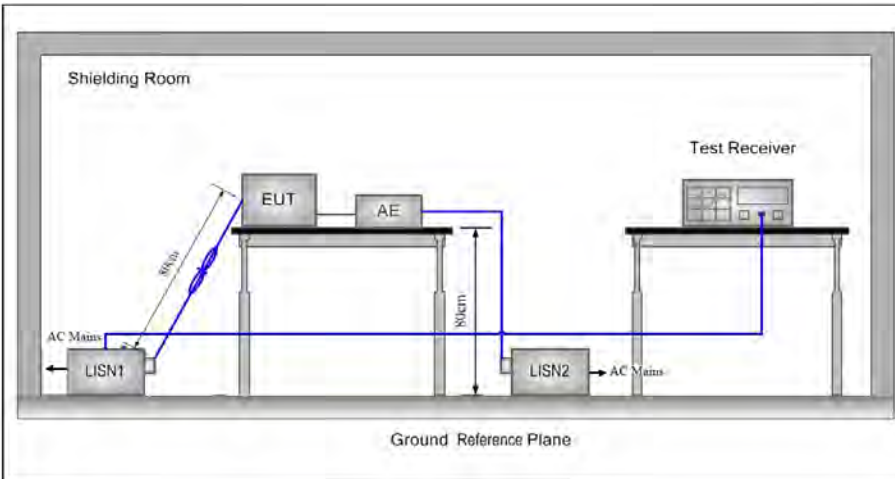
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Report No.: SUCR240200003406

Rev.: 01

Page: 11 of 139

Test Setup:	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel. Charge + Transmitting mode.
Final Test Mode:	Refer to section 3.7 for details. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass



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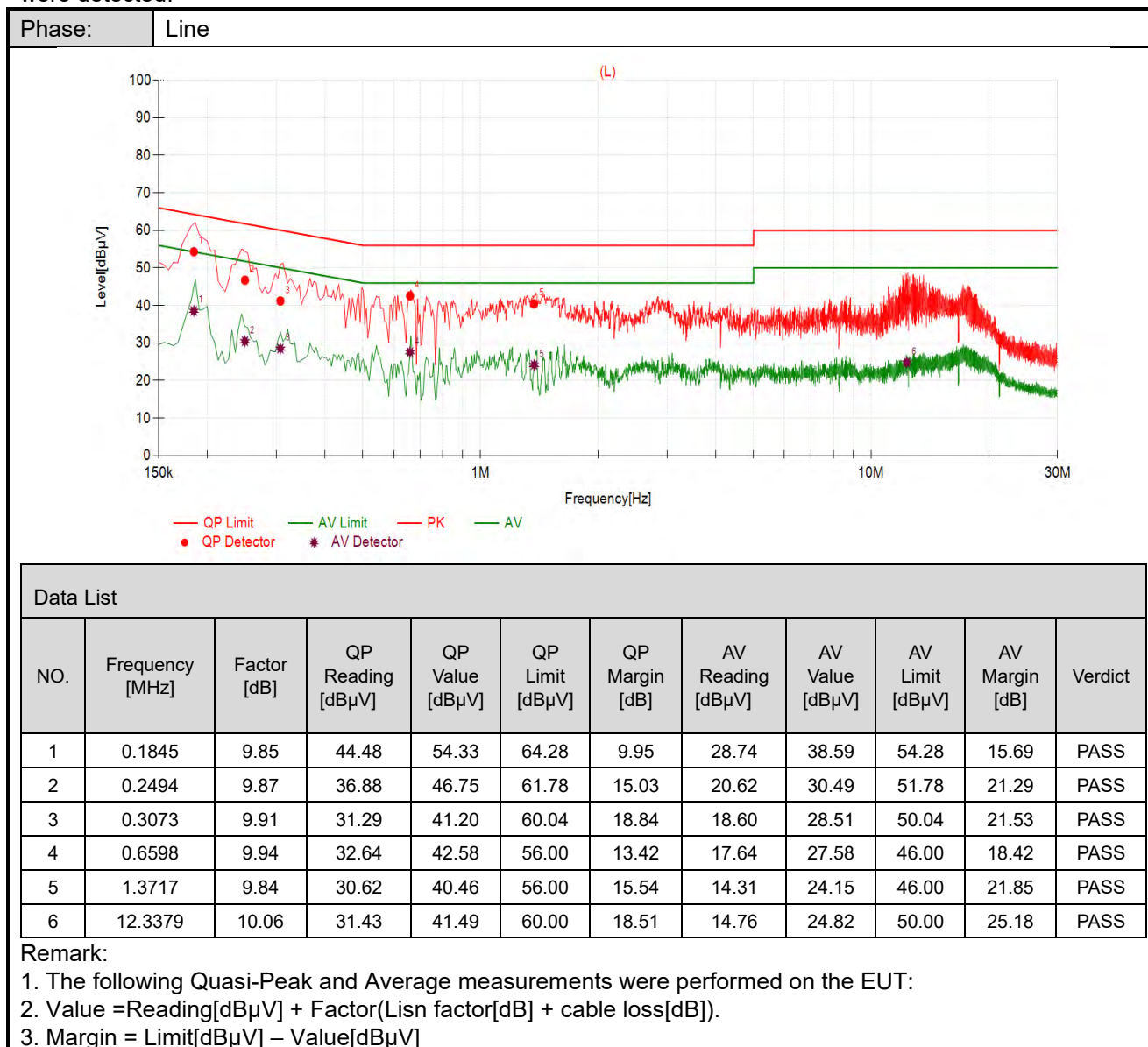
Rev.: 01

Page: 12 of 139

Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

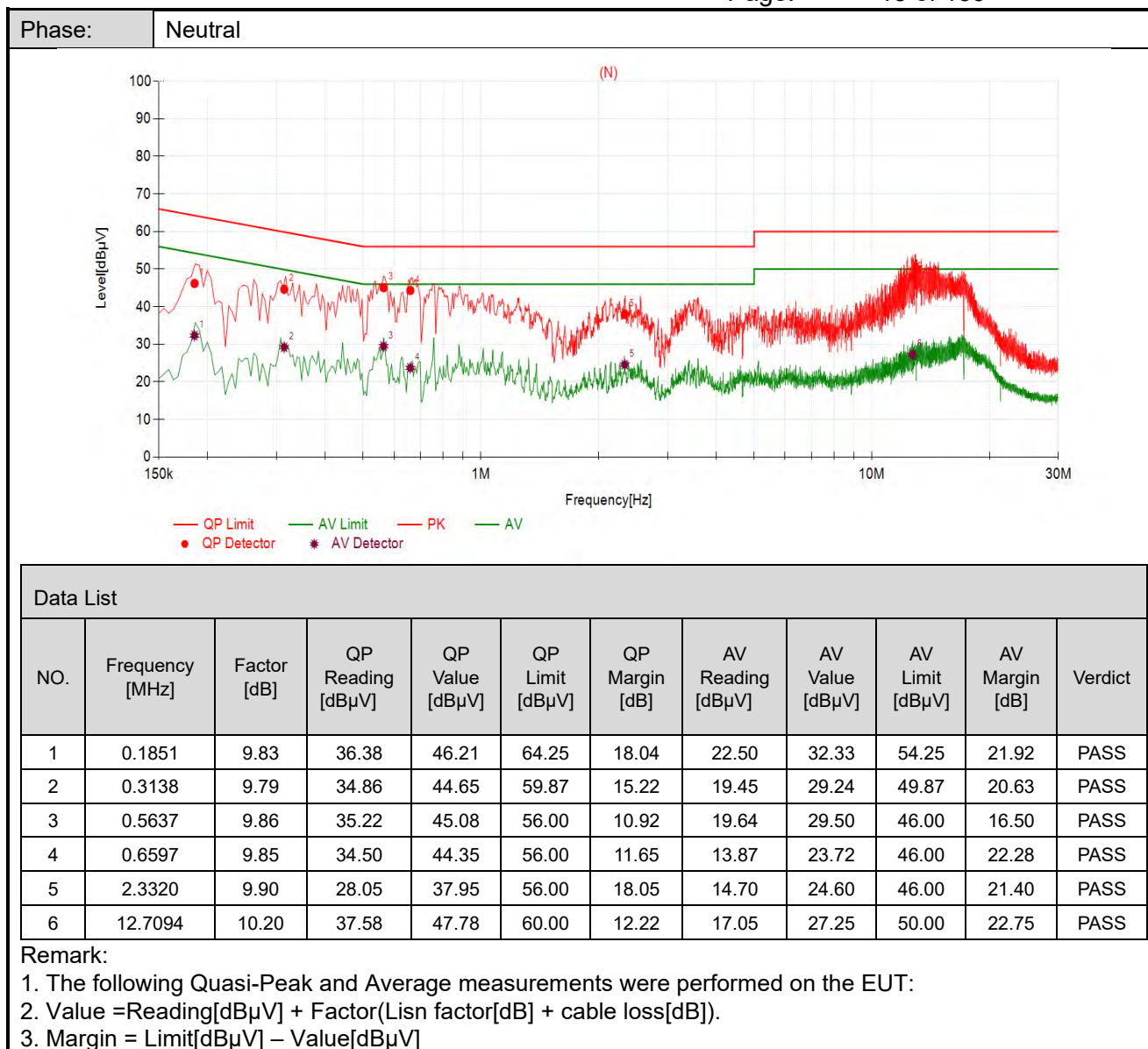
Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



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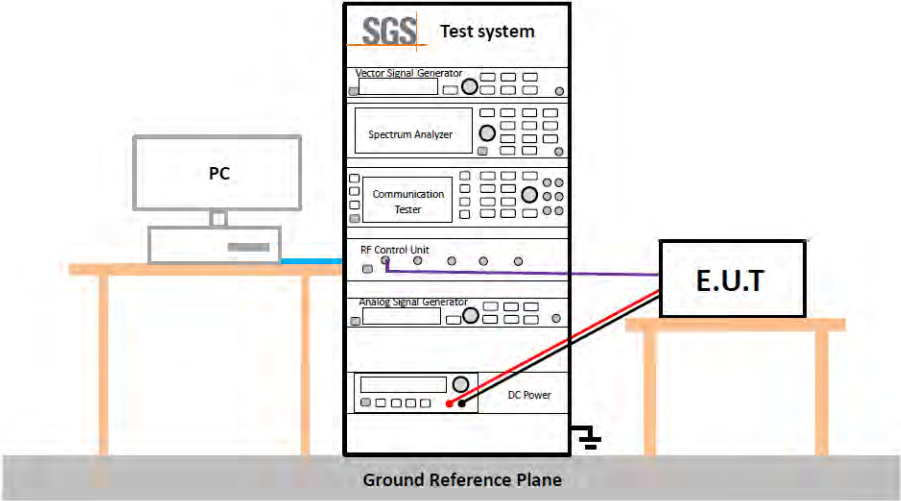


Report No.: SUCR240200003406

Rev.: 01

Page: 14 of 139

4.3 Duty Cycle

Test Requirement:	ANSI C63.10 :2013 Section 11.6
Test Method:	ANSI C63.10 :2013 Section 11.6
Test Setup:	
Instruments Used:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	No restriction limits
Test Results:	For Report Purpose
The detailed test data see: Appendix	



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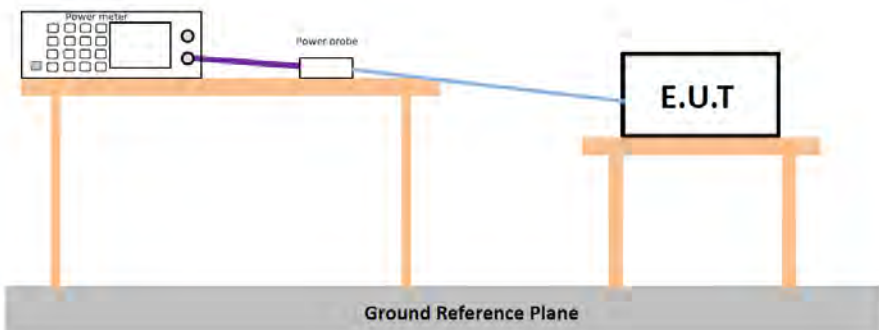
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Report No.: SUCR240200003406

Rev.: 01

Page: 15 of 139

4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 :2013 Section 11.9.1.3
Test Setup:	 * Test with power meter (Detector function: Peak)
Test Instruments:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	30dBm
Test Results:	Pass
The detailed test data see: Appendix	



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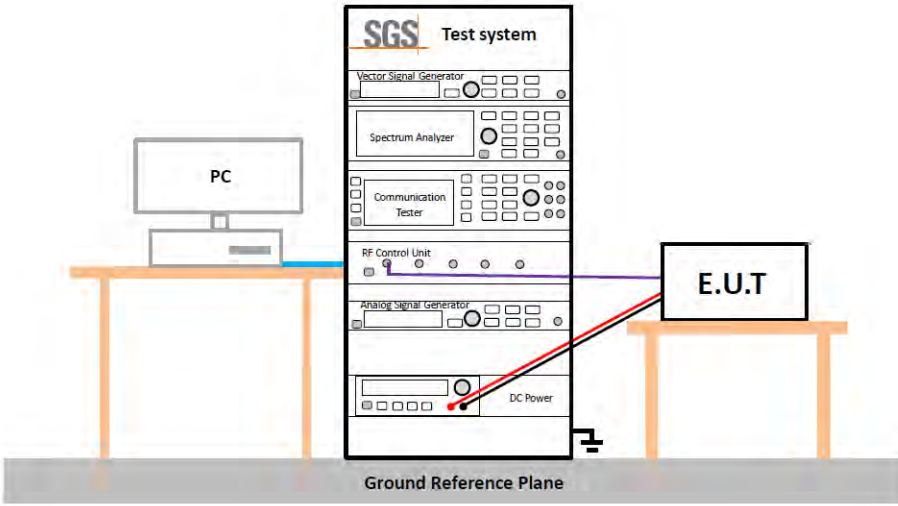
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Report No.: SUCR240200003406
Rev.: 01
Page: 16 of 139

4.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10: 2013 Section 11.8 Option 2 / 6.9.3
Test Setup:	
Instruments Used:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	≥ 500 kHz for DTS Bandwidth
Test Results:	Pass
The detailed test data see: Appendix	



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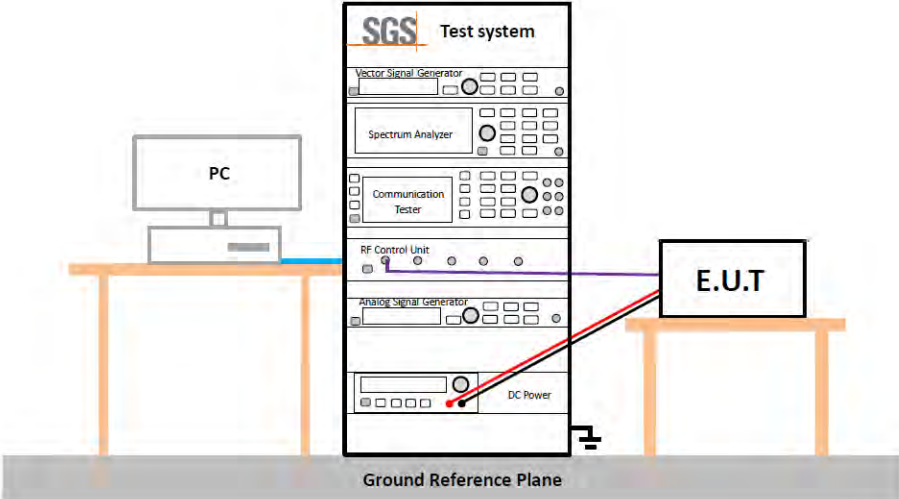
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Rev.: 01
Page: 17 of 139

4.6 Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10 :2013 Section 11.10.2
Test Setup:	
Test Instruments:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	$\leq 8.00\text{dBm}/3\text{kHz}$
Test Results:	Pass
The detailed test data see: Appendix	



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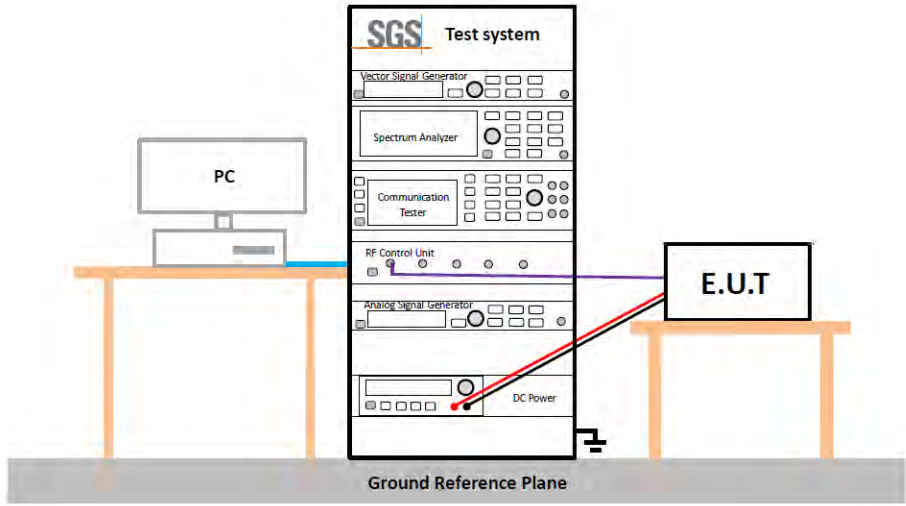
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Report No.: SUCR240200003406
Rev.: 01
Page: 18 of 139

4.7 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.11
Test Setup:	
Instruments Used:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.
Test Results:	Pass
The detailed test data see: Appendix	



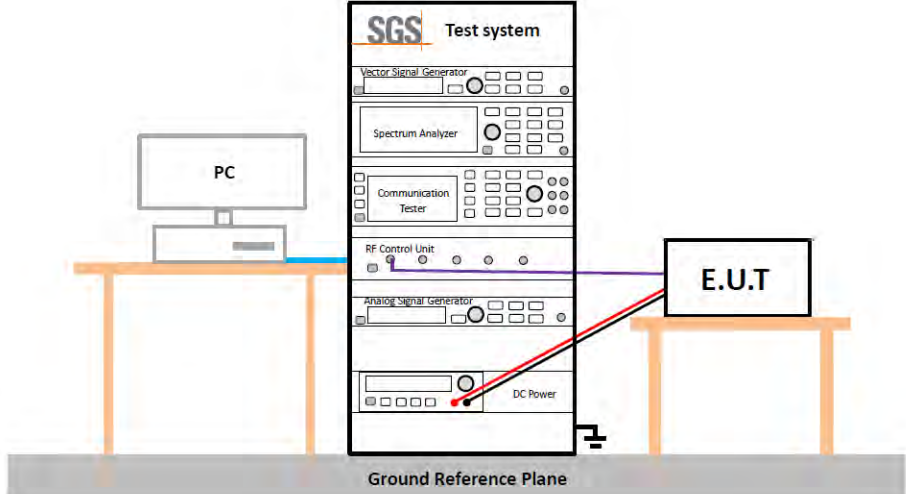
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Report No.: SUCR240200003406
Rev.: 01
Page: 19 of 139

4.8 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.11
Test Setup:	
Instruments Used:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.
Test Results:	Pass
The detailed test data see: Appendix	



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Report No.: SUCR240200003406

Rev.: 01

Page: 20 of 139

4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10 :2013 Section 11.12				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Test Frequency:	9kHz ~ 25GHz				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	3MHz	Peak
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
	Remark: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.				



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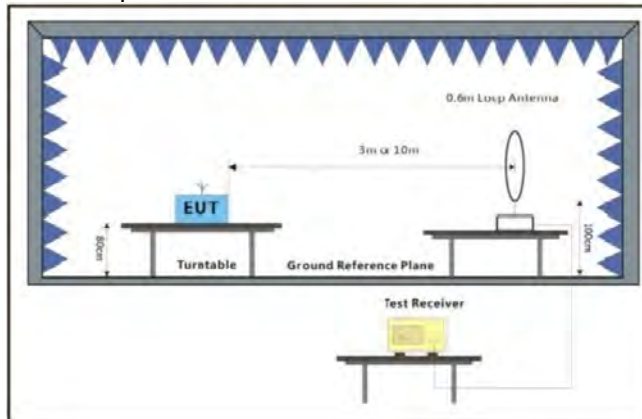


Figure 1. Below 30MHz

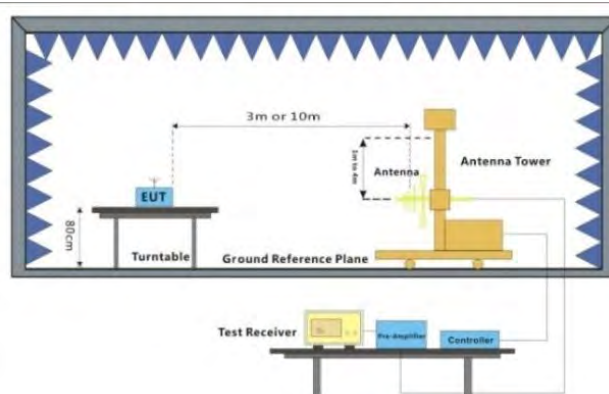


Figure 2. 30MHz to 1GHz

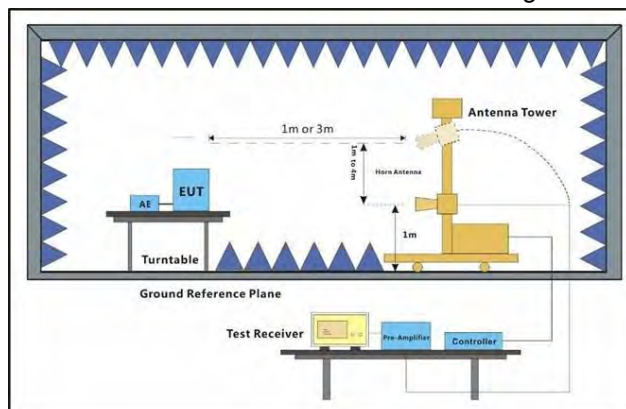


Figure 3. Above 1 GHz

Test Procedure:

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation (Distance from antenna to EUT is 1m for measurements >18GHz).
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

Report No.: SUCR240200003406

Rev.: 01

Page: 22 of 139

	f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. Test the EUT in the lowest channel, the middle channel ,the Highest channel. h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete. j. The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported k. The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed. l. At a measurement distance of 1 meter the limit line was increased by $20 \times \text{LOG}(3/1) = 9.54 \text{ dB}$.
Test Configuration:	Measurements below 30MHz • RBW = 10 kHz • VBW = 30 kHz • Detector = Peak & Average & Quasi-peak • Trace mode = max hold Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW $\geq 3 \text{ MHz}$ • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW = 10 Hz, when duty cycle is no less than 98 percent. • VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.
Final Test Mode:	Refer to section 3.7 for details. For below 1GHz part, through pre-scan all channels, but only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass
The detailed test data see: Appendix	



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Report No.: SUCR240200003406

Rev.: 01

Page: 23 of 139

4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205		
Test Method:	ANSI C63.10: 2013 Section 11.12		
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/m)	Remark
	30MHz-88MHz	40.0	Quasi-peak
	88MHz-216MHz	43.5	Quasi-peak
	216MHz-960MHz	46.0	Quasi-peak
	960MHz-1GHz	54.0	Quasi-peak
	Above 1GHz	54.0	Average Value
		74.0	Peak Value

Test Setup:

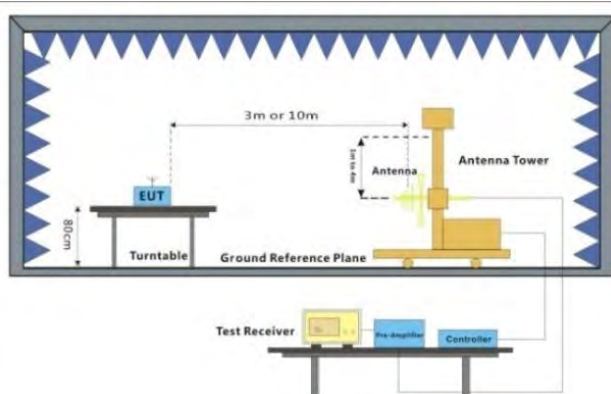


Figure 1. 30MHz to 1GHz

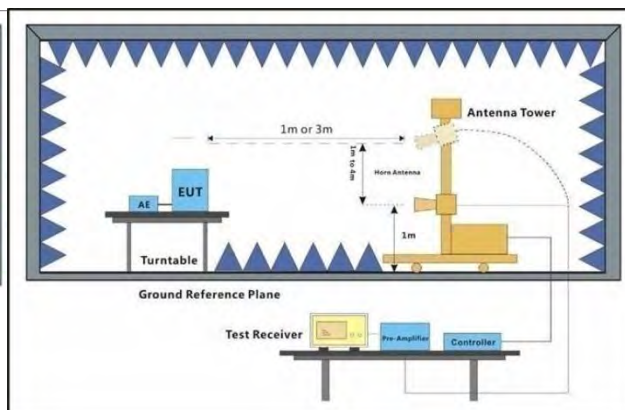


Figure 2. Above 1 GHz



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Report No.: SUCR240200003406

Rev.: 01

Page: 24 of 139

Test Procedure:	a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel h. Test the EUT in the lowest channel , the Highest channel i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete.
Test Configuration:	Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW = 10 Hz, when duty cycle is no less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.
Final Test Mode:	Refer to section 3.7 for details.
Instruments Used:	Refer to section 6 for details.



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Report No.: SUCR240200003406

Rev.: 01

Page: 25 of 139

Test Results:	Pass
The detailed test data see: Appendix	



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Report No.: SUCR240200003406

Rev.: 01

Page: 26 of 139

5 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	$\pm 0.54\text{dB}$
2	RF power density, conducted	$\pm 1.03\text{dB}$
3	Spurious emissions, conducted	$\pm 0.54\text{dB}$
4	Radio Frequency	$\pm 1.0\%$
5	Duty Cycle	$\pm 0.37\%$
6	Occupied Bandwidth	$\pm 1.0\%$
7	Conduction Emission	$\pm 3.0\text{dB}$ (150kHz to 30MHz)
8	Radiated Emission	$\pm 4.6\text{dB}$ (9KHz~30MHz)
		$\pm 4.9\text{dB}$ (30MHz~1GHz)
		$\pm 4.9\text{dB}$ (1GHz to 6GHz)
		$\pm 4.7\text{dB}$ (6GHz to 18GHz)
		$\pm 5.26\text{dB}$ (Above 18GHz)

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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Rev.: 01

Page: 27 of 139

6 Equipment List

RF Test Equipment					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Shielding Room	Brilliant-emc	N/A	SUWI-04-08-01	2022/11/09	2025/11/08
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2024/02/18	2025/02/17
Measurement Software	Tonscend	TST272 V2.0	SUWI-03-55-03	NCR	NCR
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2024/02/04	2025/02/03
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	2024/02/04	2025/02/03
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2024/02/04	2025/02/03
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2023/11/21	2024/11/20
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2023/11/21	2024/11/20
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2024/02/04	2025/02/03
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-07	2023/11/21	2024/11/20

CE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date (yyyy/mm/dd)	Cal Due Date (yyyy/mm/dd)
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2022/05/14	2025/05/13
Test receiver	ROHDE&SCHWARZ	ESR	SUWI-01-10-02	2023/08/30	2024/08/29
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2023/06/30	2024/06/29
Temperature and humidity meter	deli	8838	SEM002-32	2023/07/28	2024/07/27
Measurement Software	Tonscend	TS+ V4.0.0.0	SUWI-02-02-06	NCR	NCR
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	SUWI-01-16-14	2023/08/30	2024/08/29
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-05	2023/06/30	2024/06/29



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Rev.: 01

Page: 28 of 139

RSE Test System					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Fully-Anechoic Chamber 2	Chang Zhou Zhong Shuo	854	SEM001-05	2023/06/19	2026/06/18
MXA signal analyzer	Keysight	N9020A	SUWI-01-02-11	2024/02/02	2025/02/01
Spectrum Analyzer*	ROHDE&SCHWARZ	FSV3044	SUWI-01-05-04	2023/05/15	2024/05/14
Test receiver	ROHDE&SCHWARZ	ESR	SUWI-01-10-02	2023/08/30	2024/08/29
Receiving antenna (30MHz-3GHz)	Schwarzbeck	VULB 9163	SUWI-01-11-10	2022/07/28	2024/07/27
Receiving antenna(1GHz~18GHz)	Schwarzbeck	BBHA 9120D	SUWI-01-11-11	2022/07/28	2024/07/27
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	SUWI-01-11-12	2022/07/23	2024/07/22
Directional antenna rack controller	Max-Full	MF-7802BS	SUWI-03-57-01	NCR	NCR
High-speed antenna rack controller	Max-Full	MF-7802	SUWI-03-58-01	NCR	NCR
Filter bank	Tonscend	JS0806-F	SUWI-03-02-04	NCR	NCR
Filter bank	Tonscend	JS0806s	SUWI-03-02-05	NCR	NCR
Amplifier*	Tonscend	TAP9K3G32	SUWI-01-14-14	2023/05/15	2024/05/14
Amplifier	Tonscend	TAP01018048	SUWI-01-14-15	2023/08/30	2024/08/29
Amplifier	Tonscend	TAP18040048	SUWI-01-14-16	2023/08/30	2024/08/29
Amplifier	Shanghai Steed	YX28980930	SUWI-01-14-17	2023/08/30	2024/08/29
Temperature and humidity meter	deli	8838	SEM002-32	2023/07/28	2024/07/27
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	SUWI-01-16-14	2023/08/30	2024/08/29
Measurement Software	Tonscend	TS+ V4.0.0.0	SUWI-02-02-06	NCR	NCR
Loop Antenna*	Schwarzbeck	FMZB 1519B	SUWI-01-21-02	2022/05/26	2024/05/25

Remark: NCR=No Calibration Requirement.

*Note: The RSE were tested in 2024/04/17 to 2024/04/18, so the equipment is not used for testing after 2024/04/18.



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Report No.: SUCR240200003406

Rev.: 01

Page: 29 of 139

7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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Rev.: 01

Page: 30 of 139

Appendix



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Report No.: SUCR240200003406

Rev.: 01

Page: 31 of 139

Duty Cycle

Test Result

Ant7

Ant7							
Mode	Tx Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	8.384	8.414	99.64	0.02	0.04
		2437	8.383	8.413	99.64	0.02	0.04
		2462	8.384	8.414	99.64	0.02	0.04
802.11g	SISO	2412	1.393	1.428	97.55	0.11	0.07
		2437	1.394	1.428	97.62	0.10	0.06
		2462	1.394	1.428	97.62	0.10	0.03
802.11n (HT20)	SISO	2412	1.302	1.335	97.53	0.11	0.03
		2437	1.302	1.336	97.46	0.11	0.03
		2462	1.302	1.336	97.46	0.11	0.03
802.11n (HT40)	SISO	2422	0.648	0.683	94.88	0.23	0.03
		2437	0.649	0.683	95.02	0.22	0.04
		2452	0.649	0.683	95.02	0.22	0.03



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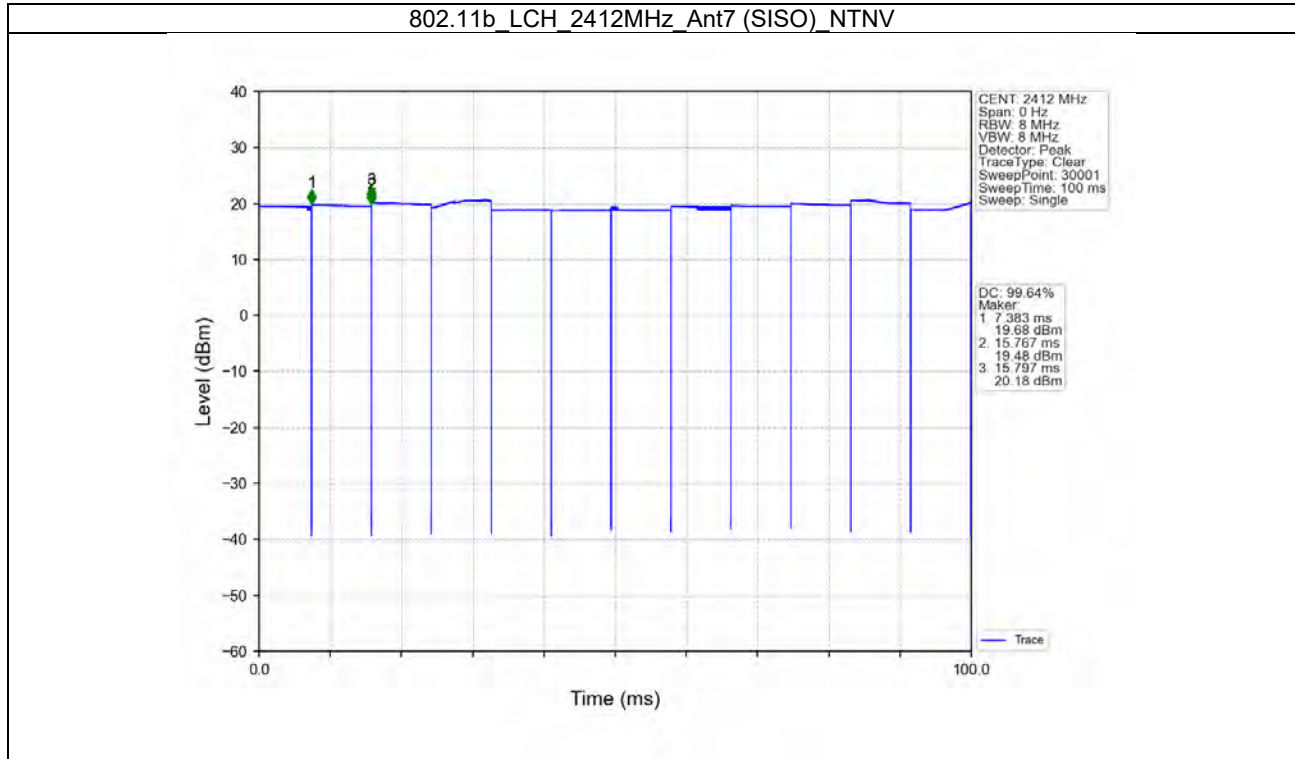
Report No.: SUCR240200003406

Rev.: 01

Page: 32 of 139

Test Graph

Ant7



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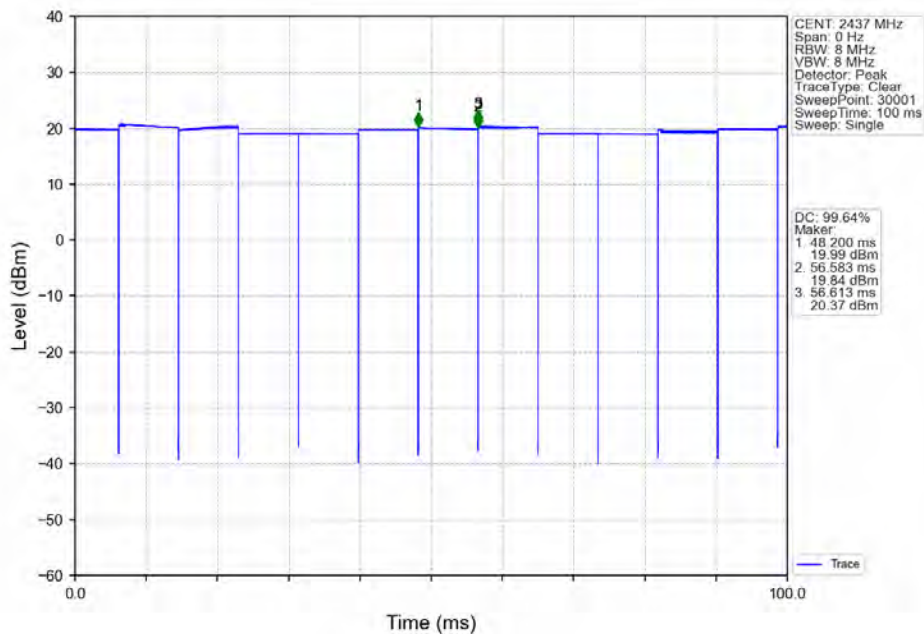
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Rev.: 01

Page: 33 of 139

802.11b_MCH_2437MHz_Ant7 (SISO)_NTNV



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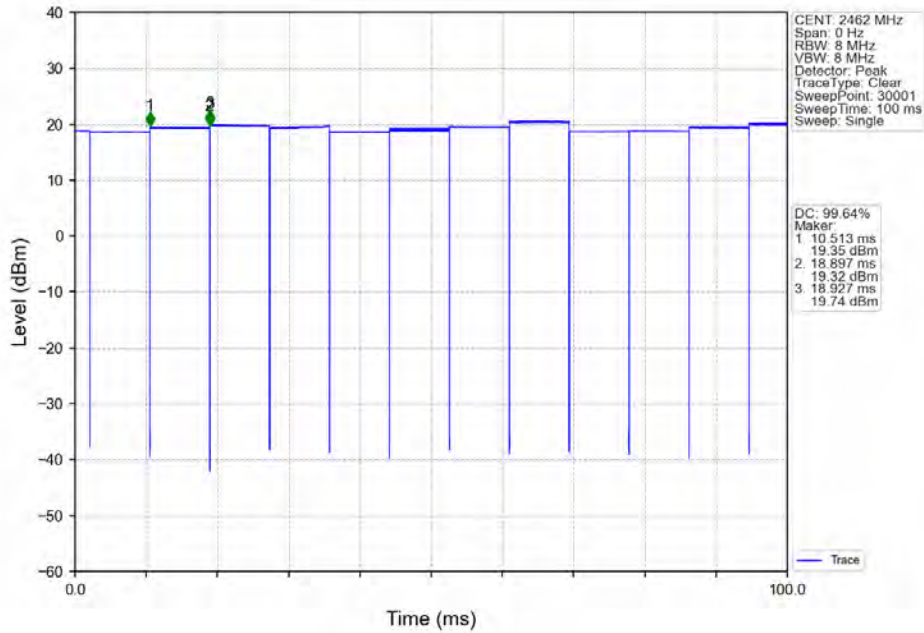
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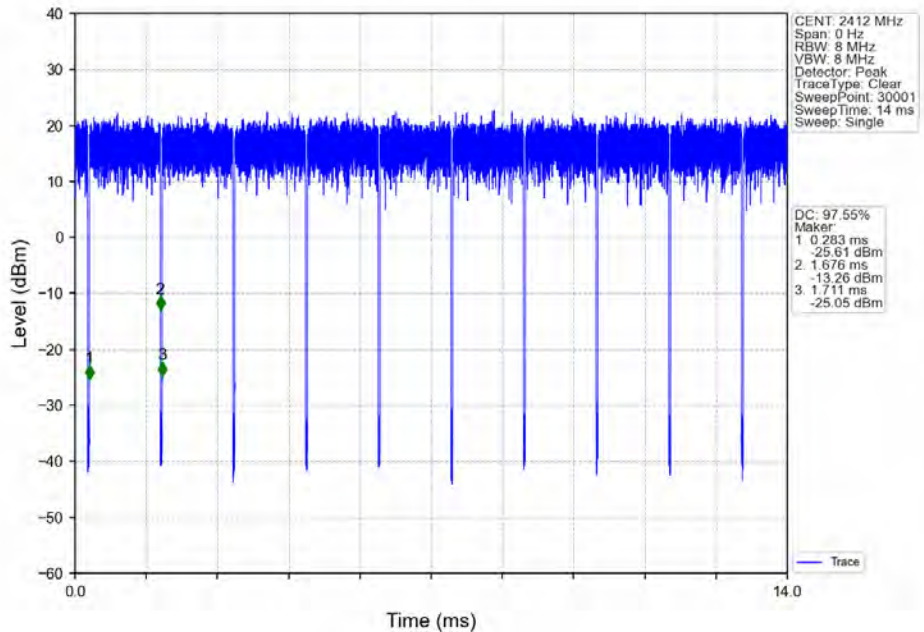
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Page: 34 of 139

802.11b HCH 2462MHz Ant7 (SISO) NTN



802.11g LCH 2412MHz Ant7 (SISO) NTN



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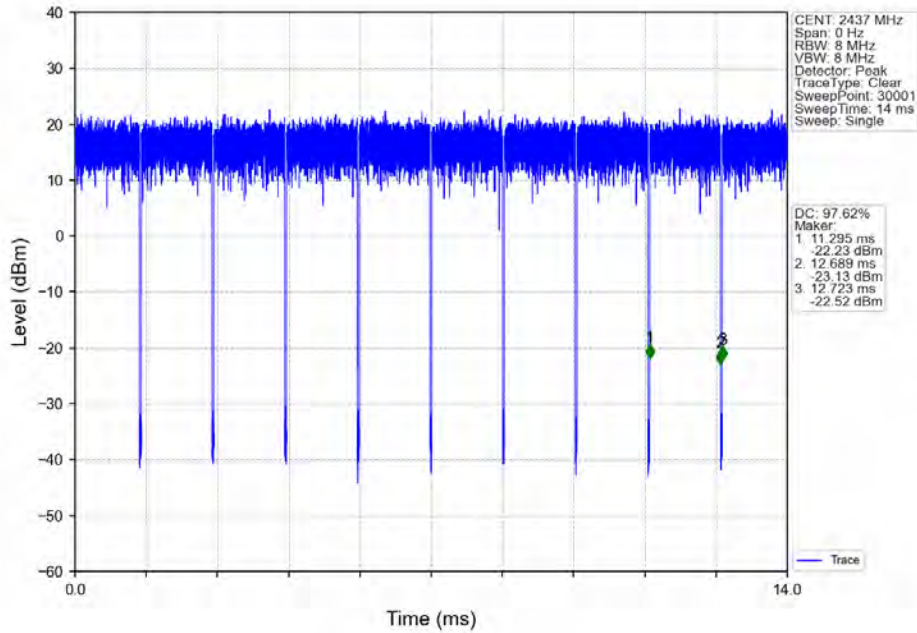
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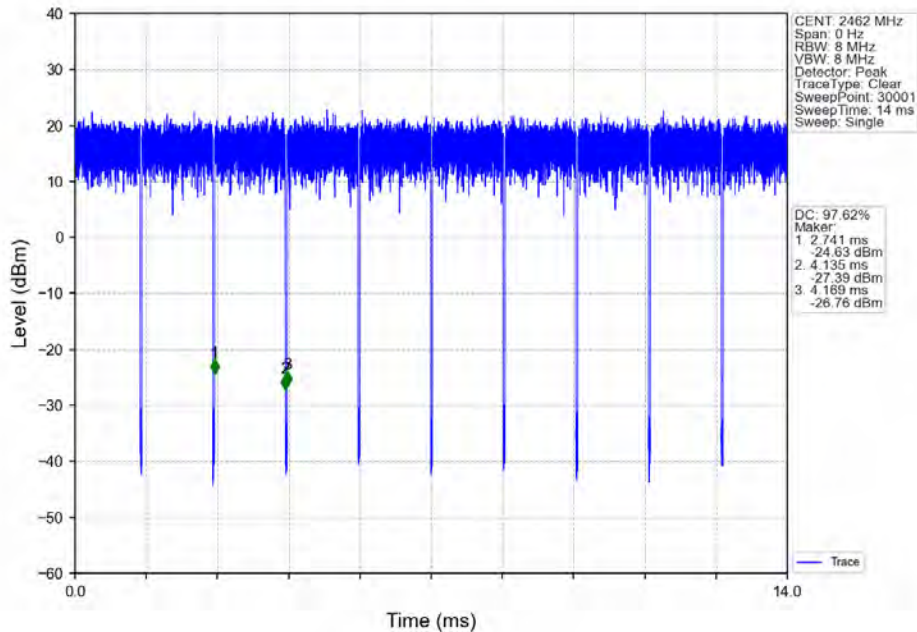
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Page: 35 of 139

802.11g_MCH_2437MHz_Ant7 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant7 (SISO)_NTNV



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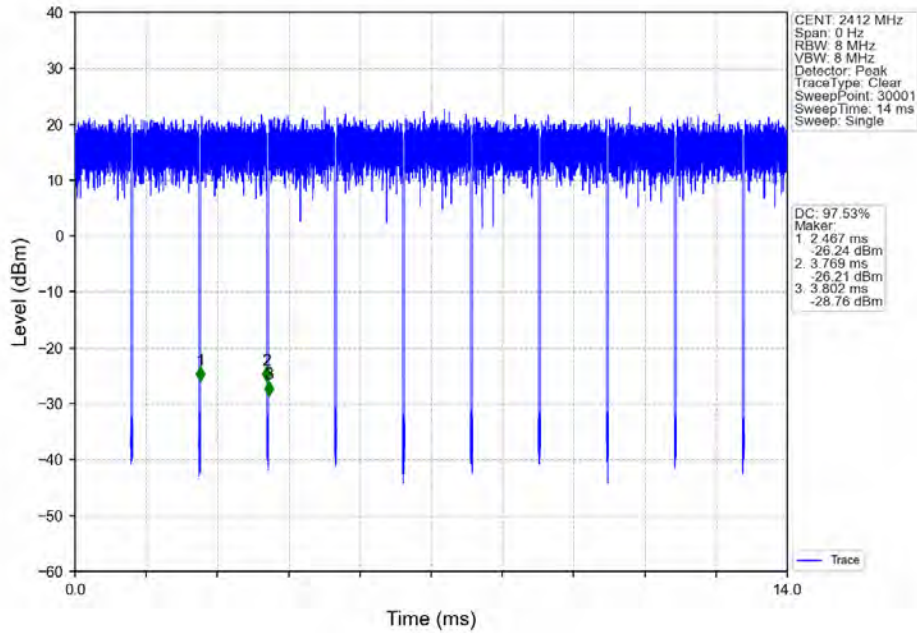
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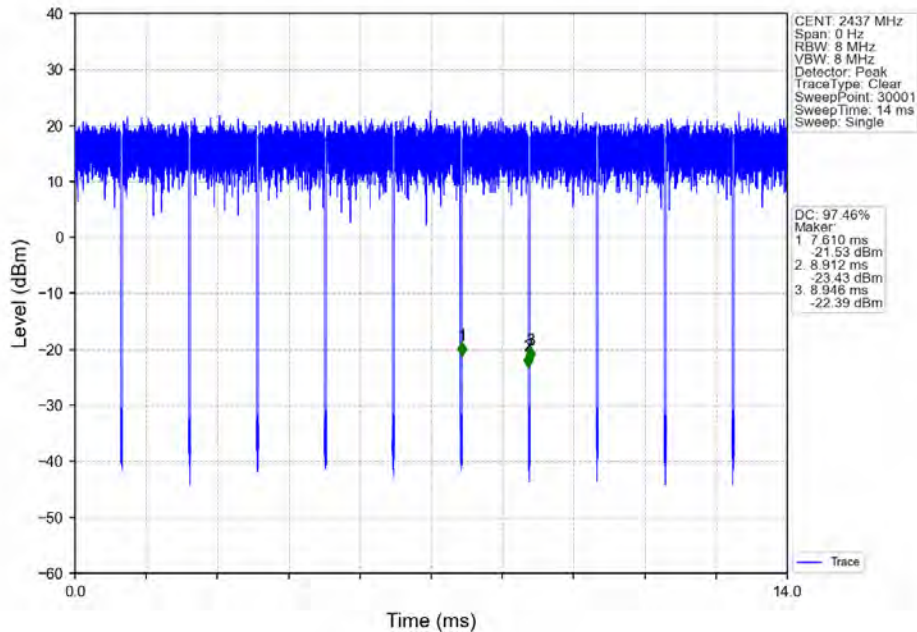
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Page: 36 of 139

802.11n(HT20)_LCH_2412MHz_Ant7 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant7 (SISO)_NTNV



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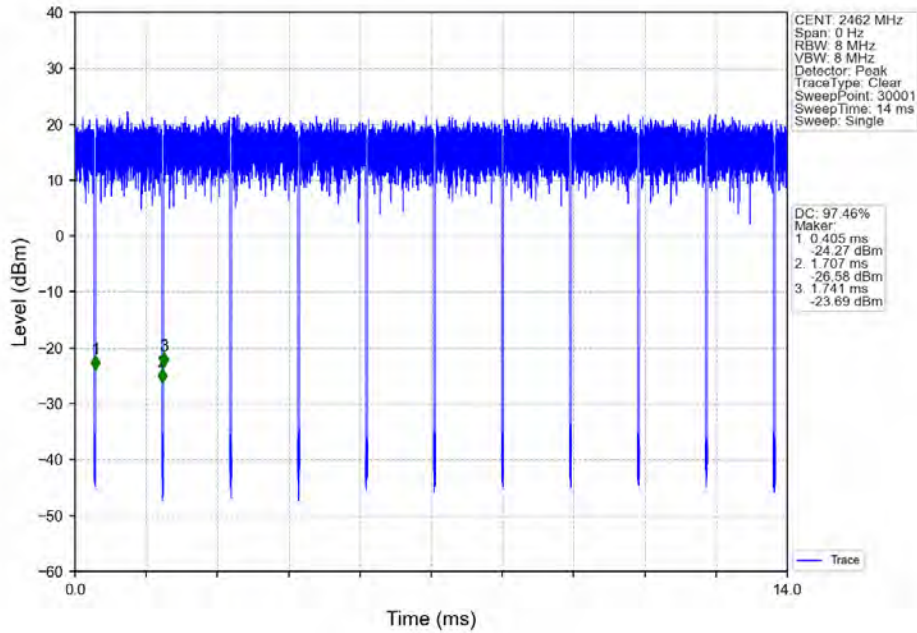
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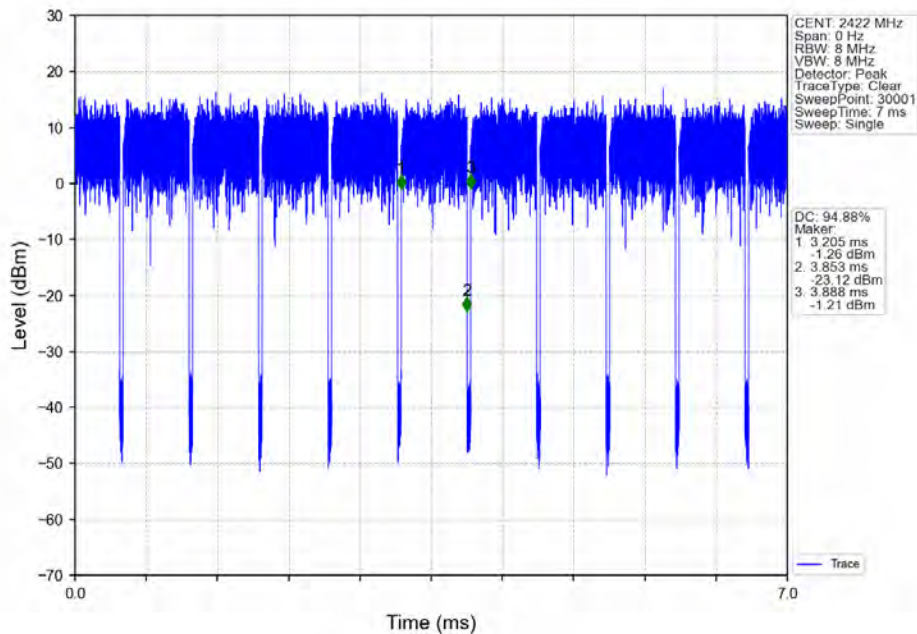
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Page: 37 of 139

802.11n(HT20)_HCH_2462MHz_Ant7 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant7 (SISO)_NTNV



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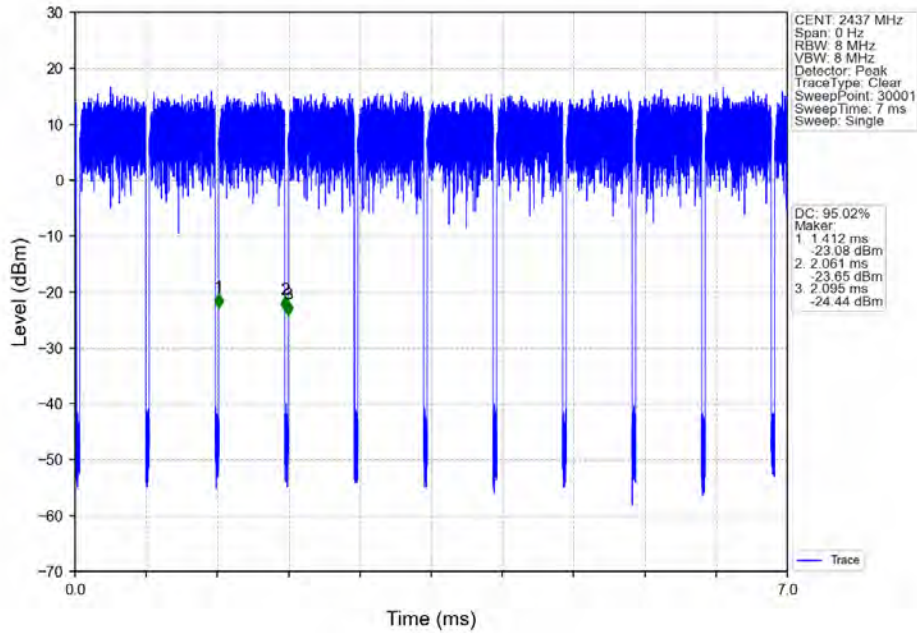
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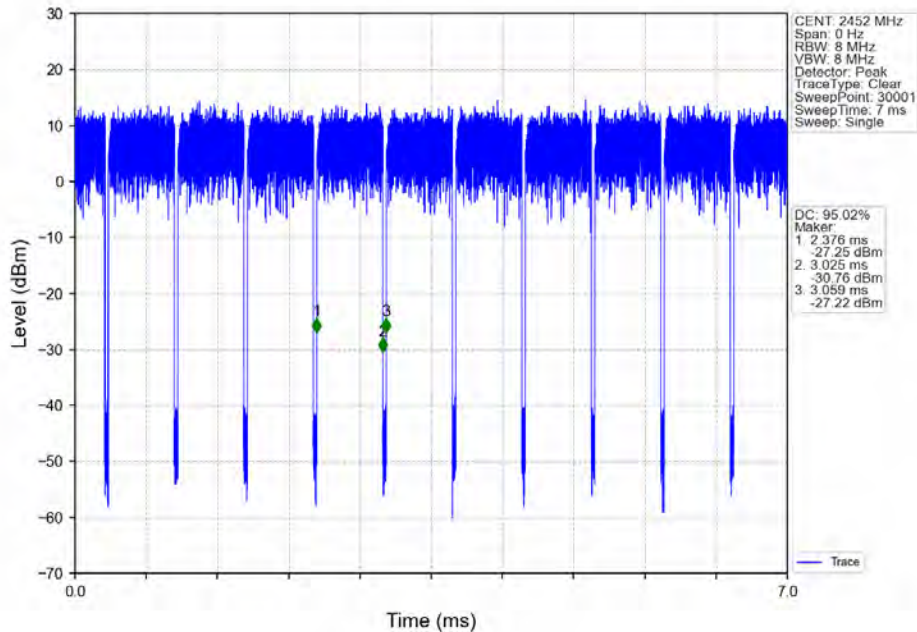
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802.11n(HT40)_MCH_2437MHz_Ant7 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant7 (SISO)_NTNV



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Page: 39 of 139

Bandwidth

Test Result

OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	7	13.155	/	Pass
		2437	7	12.889	/	Pass
		2462	7	13.242	/	Pass
802.11g	SISO	2412	7	17.505	/	Pass
		2437	7	17.836	/	Pass
		2462	7	17.866	/	Pass
802.11n (HT20)	SISO	2412	7	18.372	/	Pass
		2437	7	18.669	/	Pass
		2462	7	18.712	/	Pass
802.11n (HT40)	SISO	2422	7	39.501	/	Pass
		2437	7	35.923	/	Pass
		2452	7	36.986	/	Pass

6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	7	8.680	≥ 0.5	Pass
		2437	7	8.216	≥ 0.5	Pass
		2462	7	8.690	≥ 0.5	Pass
802.11g	SISO	2412	7	16.223	≥ 0.5	Pass
		2437	7	16.247	≥ 0.5	Pass
		2462	7	16.260	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	7	17.469	≥ 0.5	Pass
		2437	7	17.567	≥ 0.5	Pass
		2462	7	17.440	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	7	26.589	≥ 0.5	Pass
		2437	7	29.803	≥ 0.5	Pass
		2452	7	36.228	≥ 0.5	Pass



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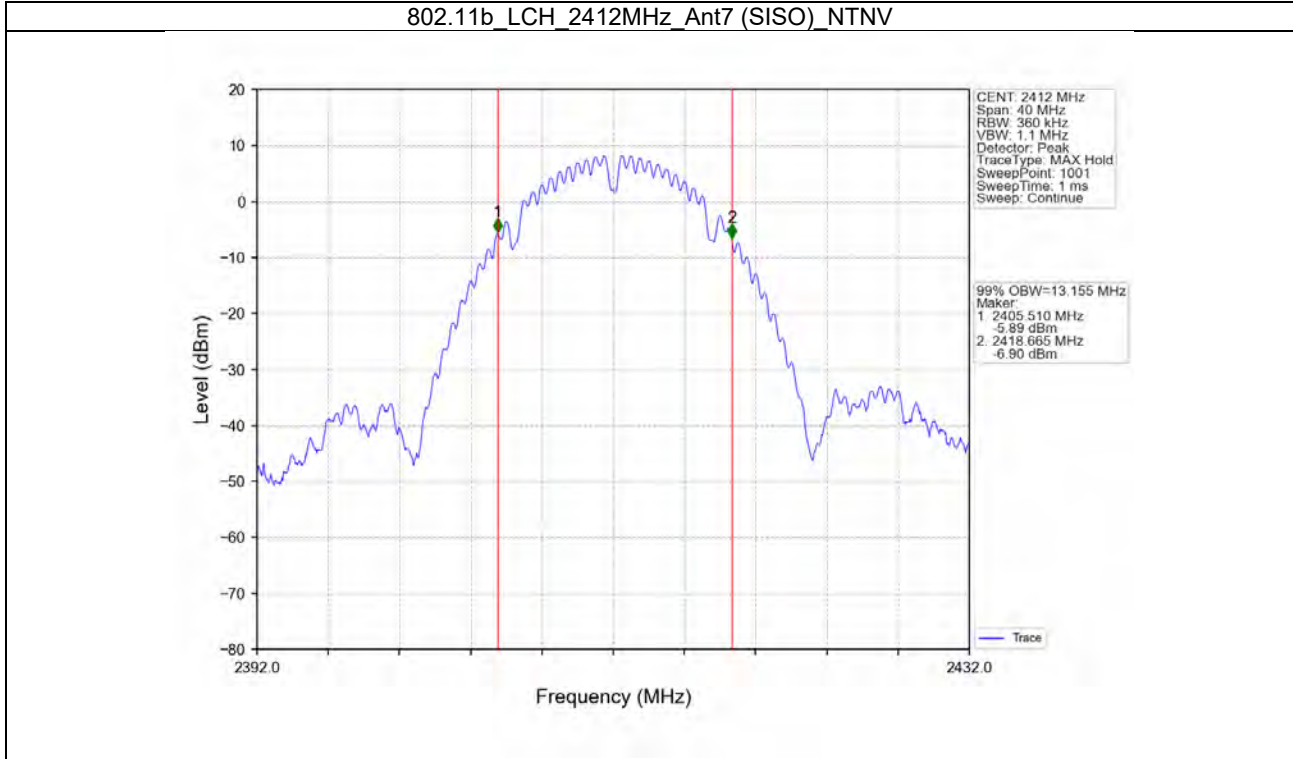
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Rev.: 01

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Test Graph

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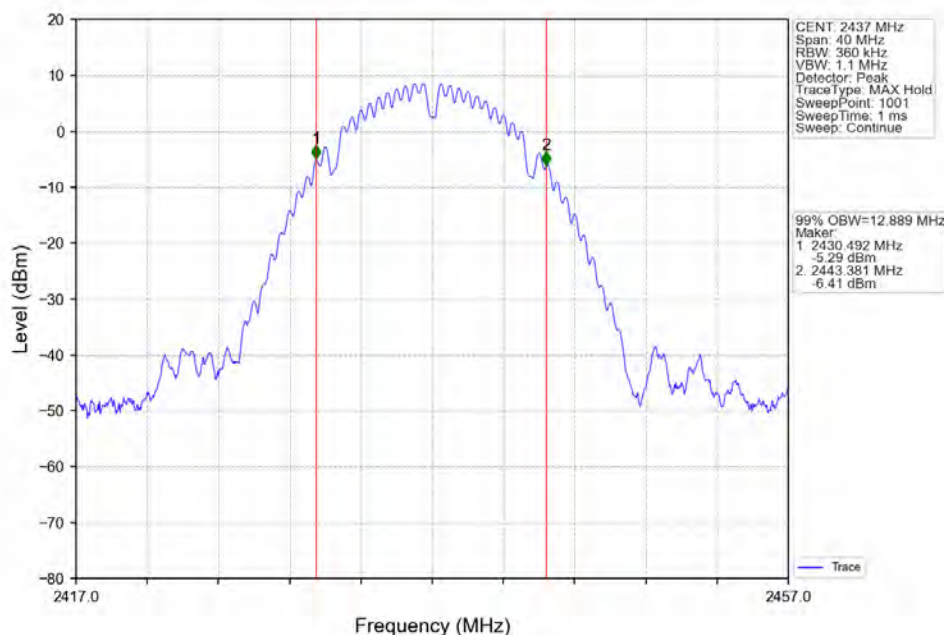
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802.11b MCH 2437MHz Ant7 (SISO) NTN



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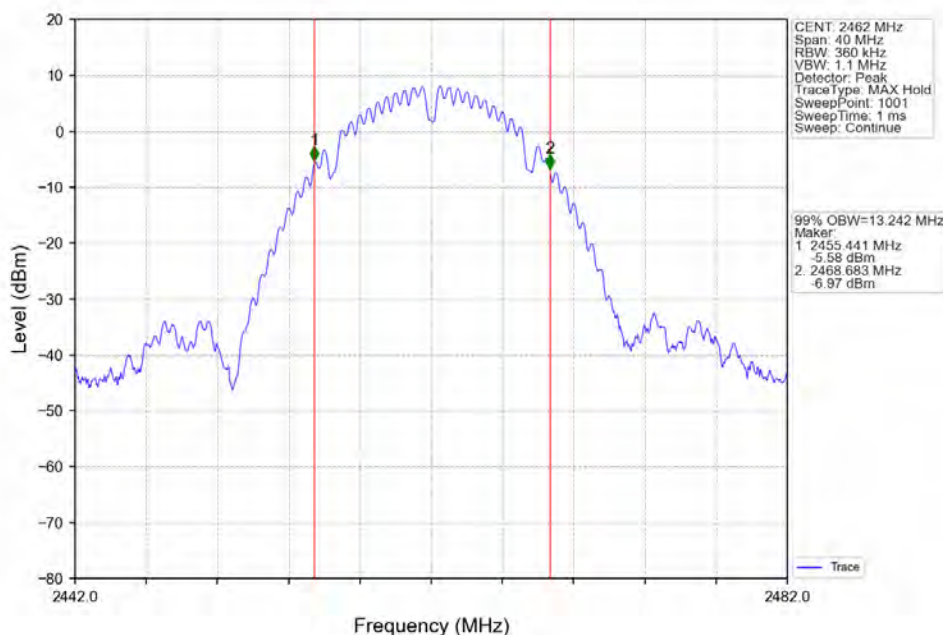
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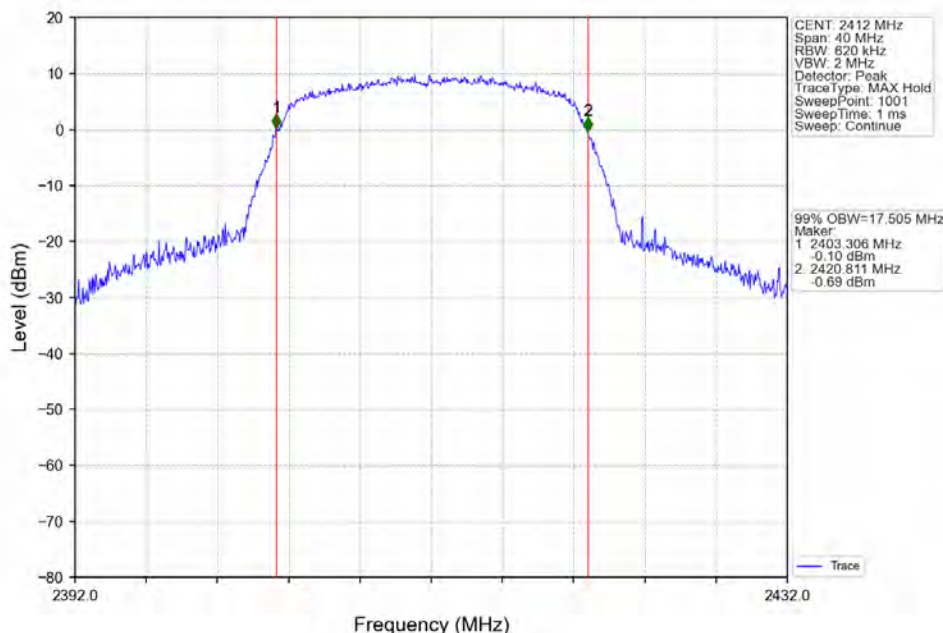
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802.11b HCH 2462MHz Ant7 (SISO) NTN



802.11g LCH 2412MHz Ant7 (SISO) NTN



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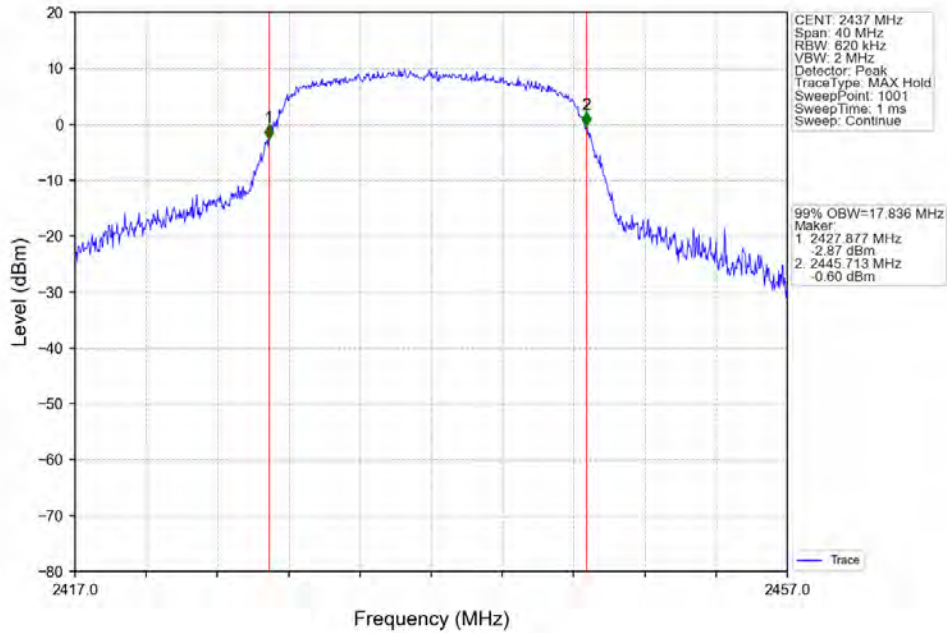
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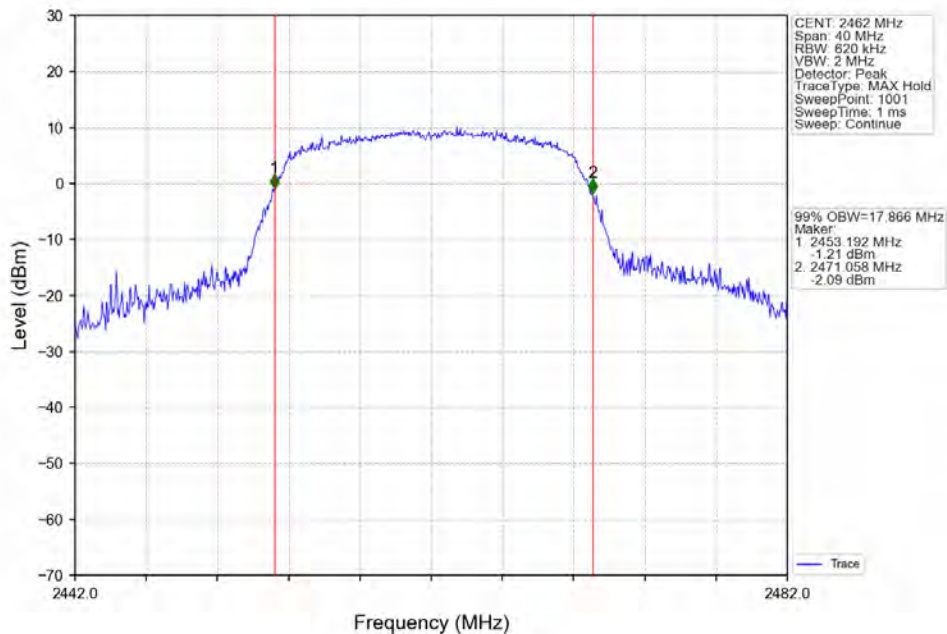
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Page: 43 of 139

802.11g_MCH_2437MHz_Ant7 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant7 (SISO)_NTNV



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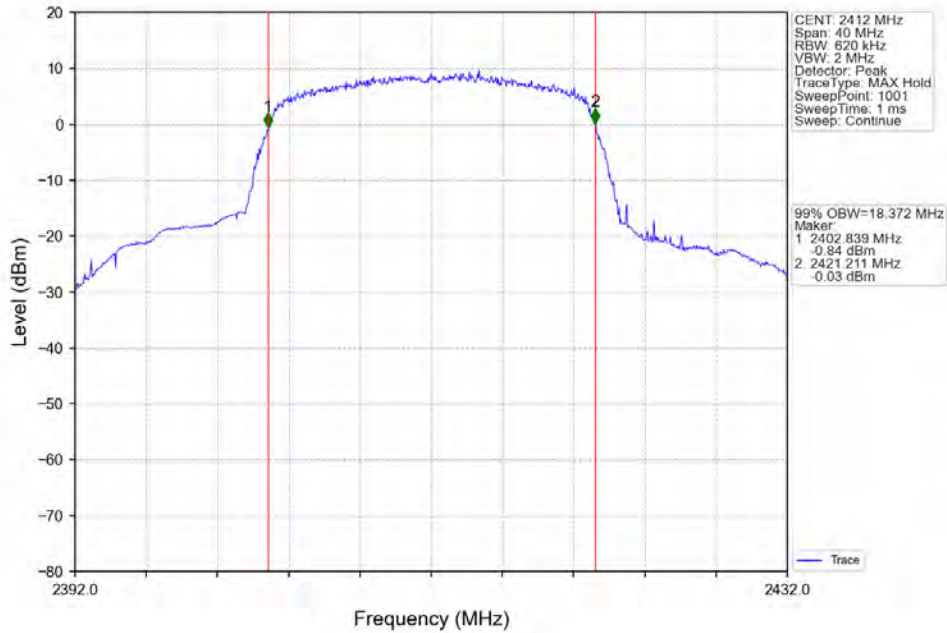
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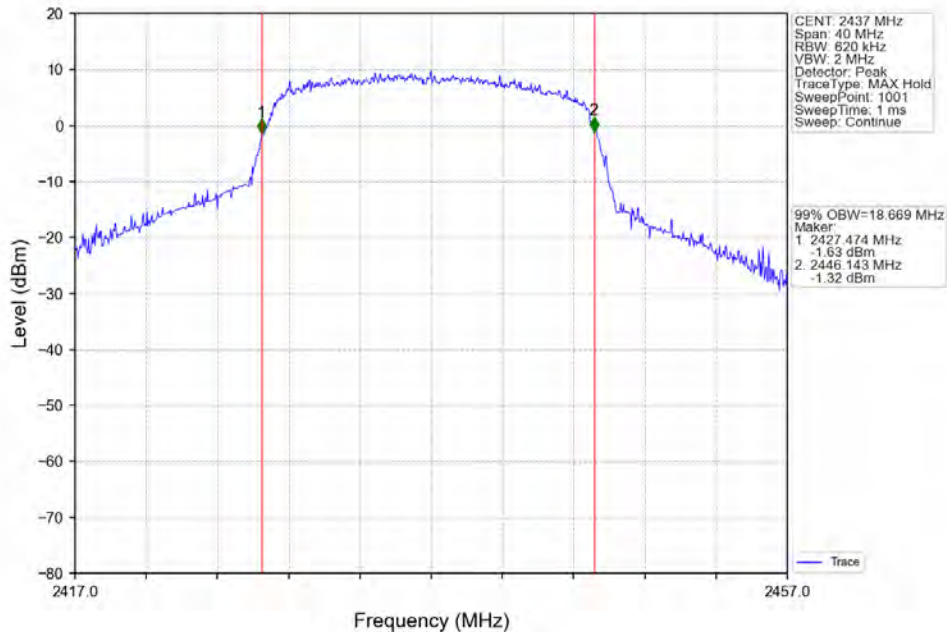
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Page: 44 of 139

802.11n(HT20) LCH 2412MHz Ant7 (SISO) NTN



802.11n(HT20) MCH 2437MHz Ant7 (SISO) NTN



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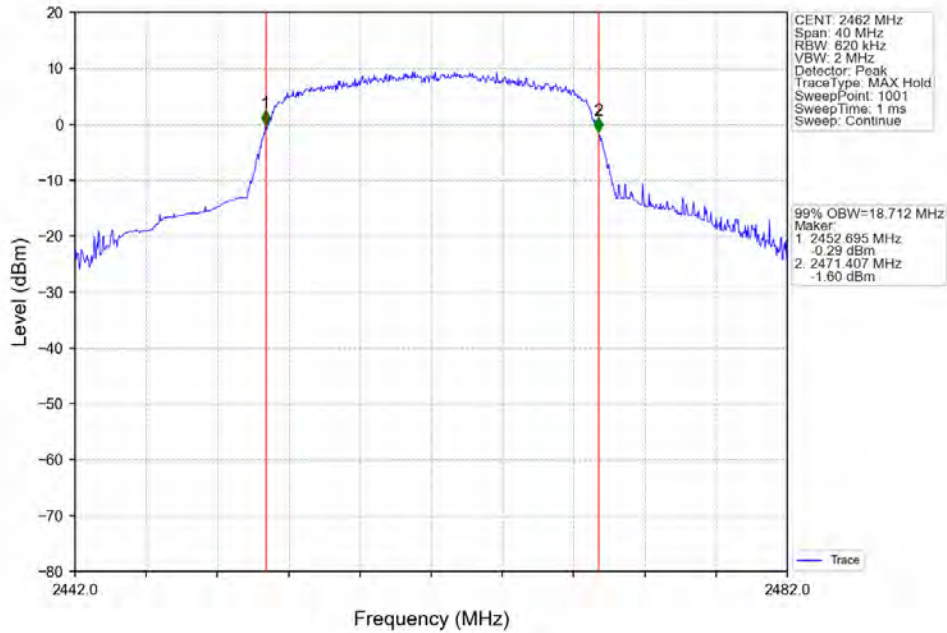
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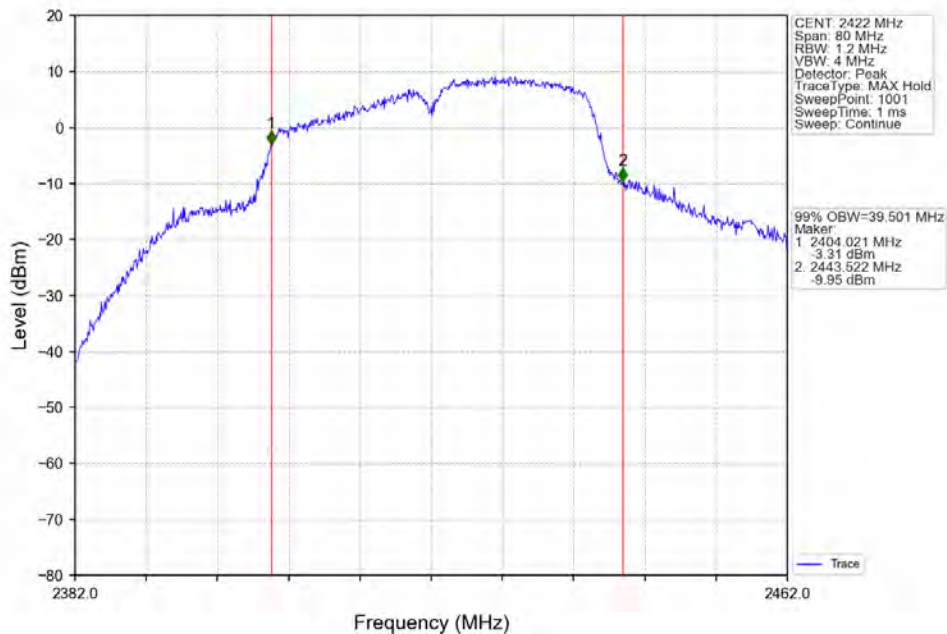
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Page: 45 of 139

802.11n(HT20)_HCH_2462MHz_Ant7 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant7 (SISO)_NTNV



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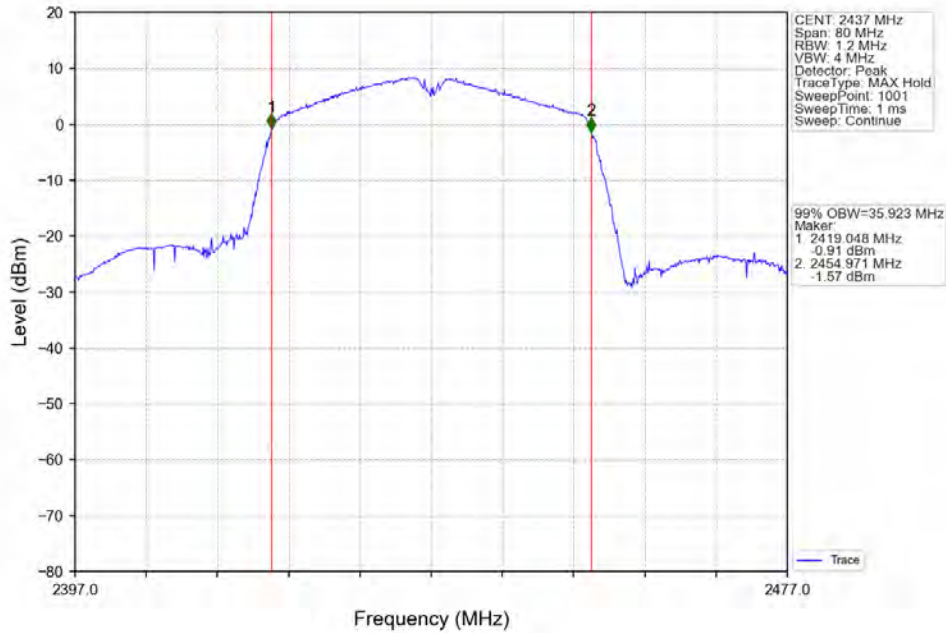
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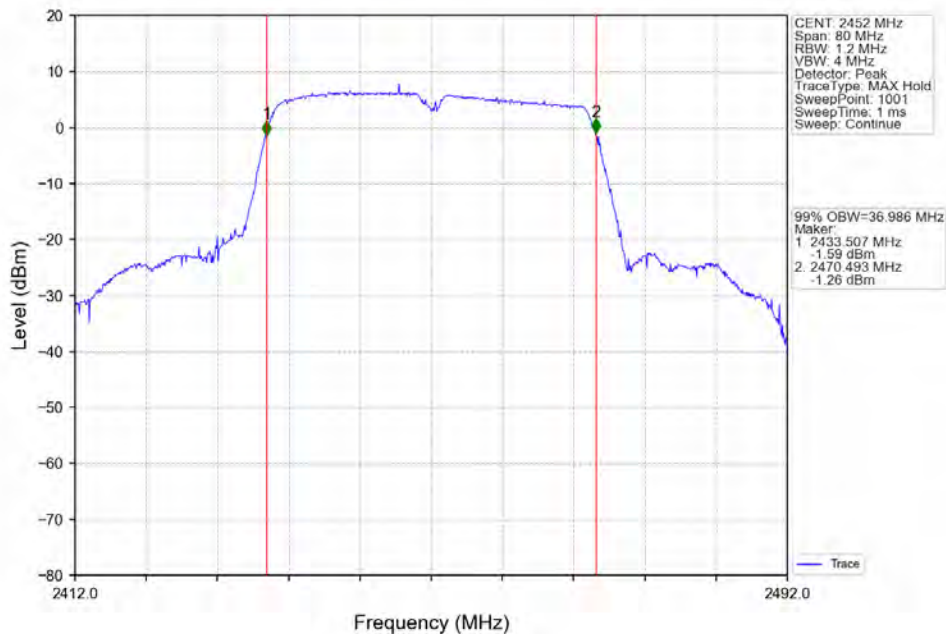
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Page: 46 of 139

802.11n(HT40) MCH_2437MHz_Ant7 (SISO) NTN



802.11n(HT40) HCH_2452MHz_Ant7 (SISO) NTN



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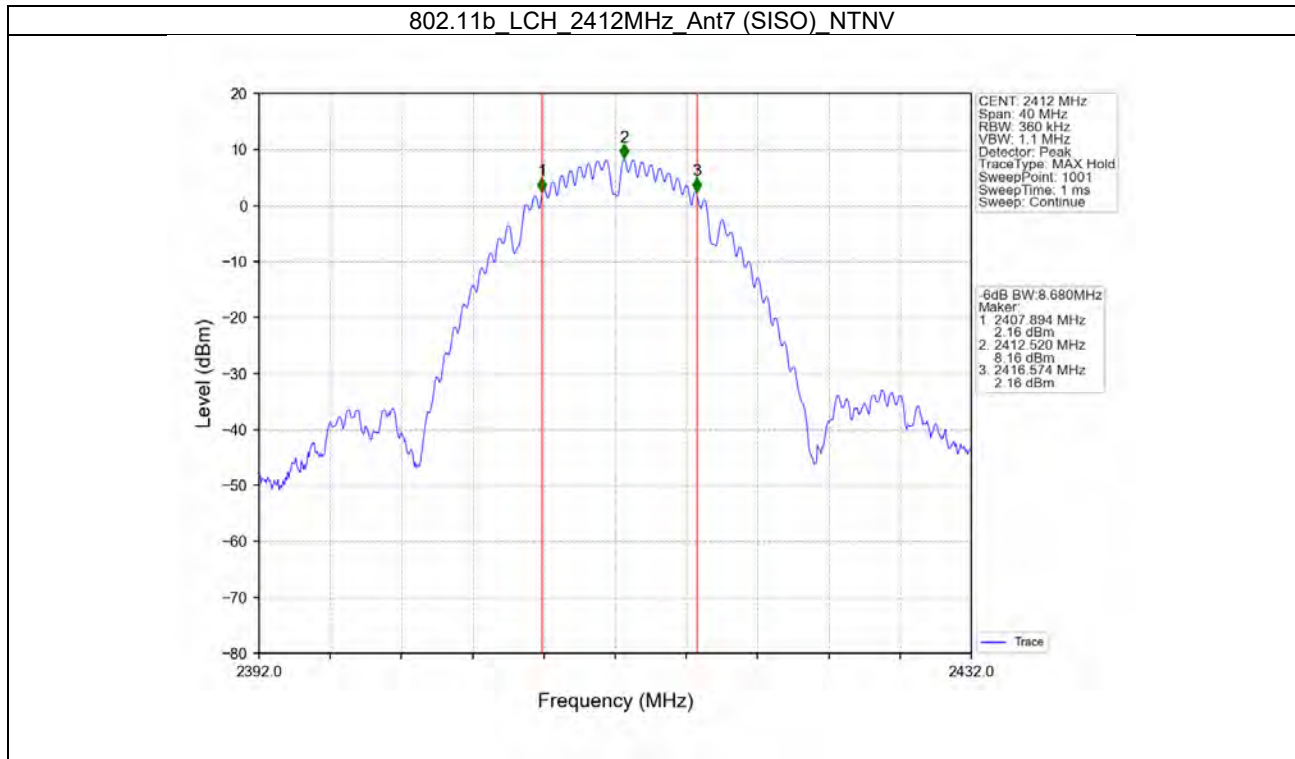
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6dB BW



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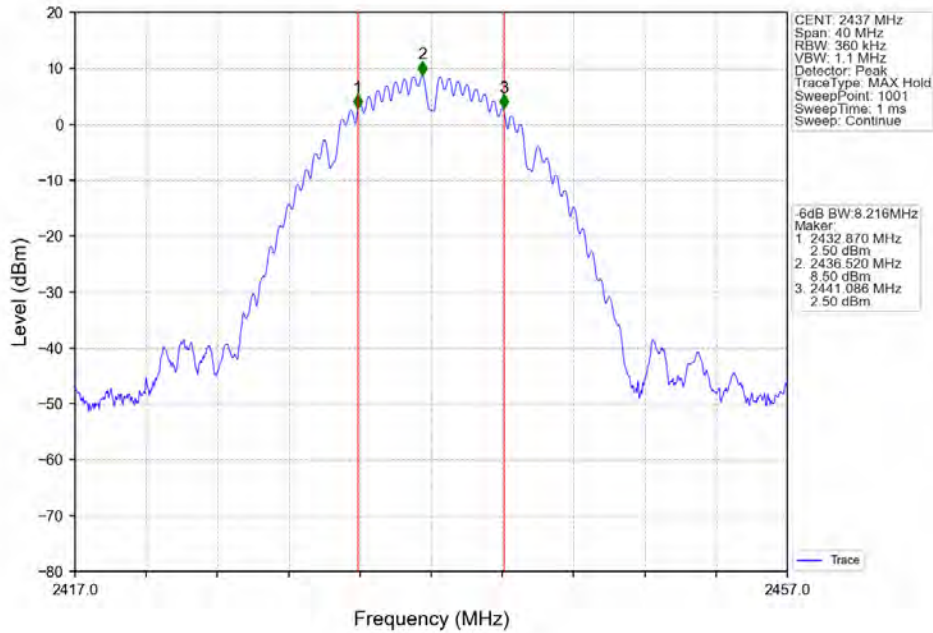
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Page: 48 of 139

802.11b MCH 2437MHz Ant7 (SISO) NTN



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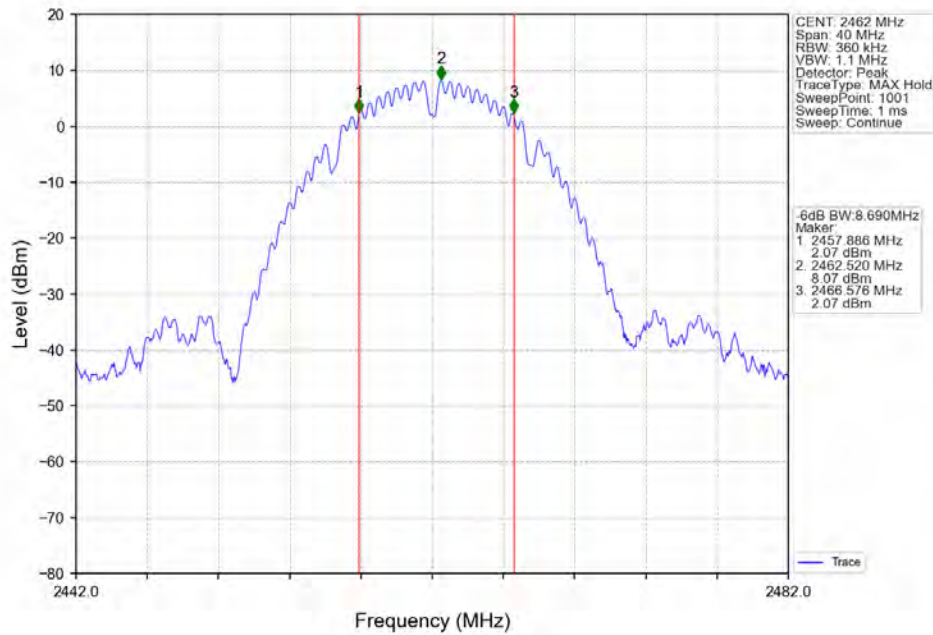
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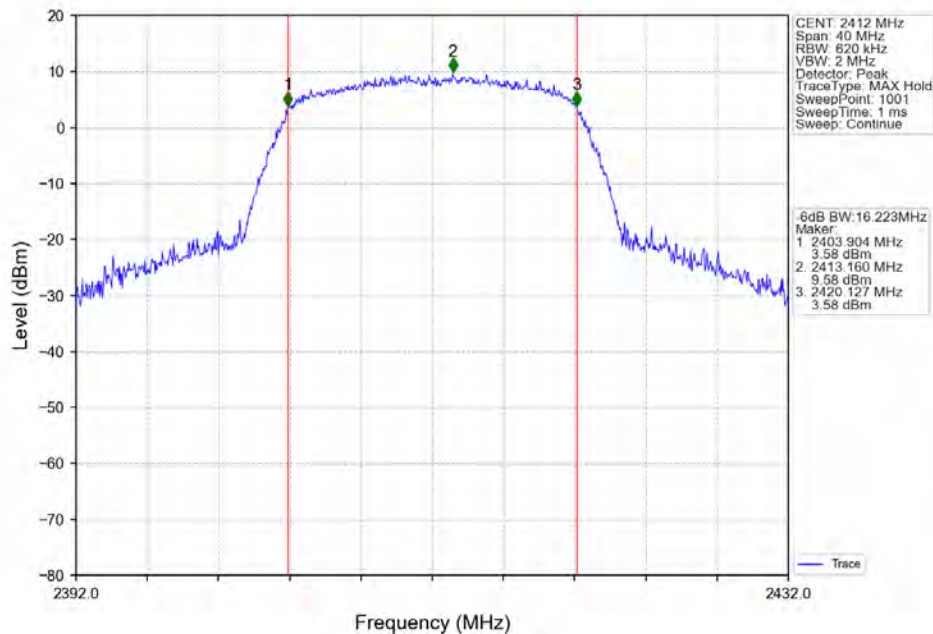
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802.11b HCH 2462MHz Ant7 (SISO) NTN



802.11g LCH 2412MHz Ant7 (SISO) NTN



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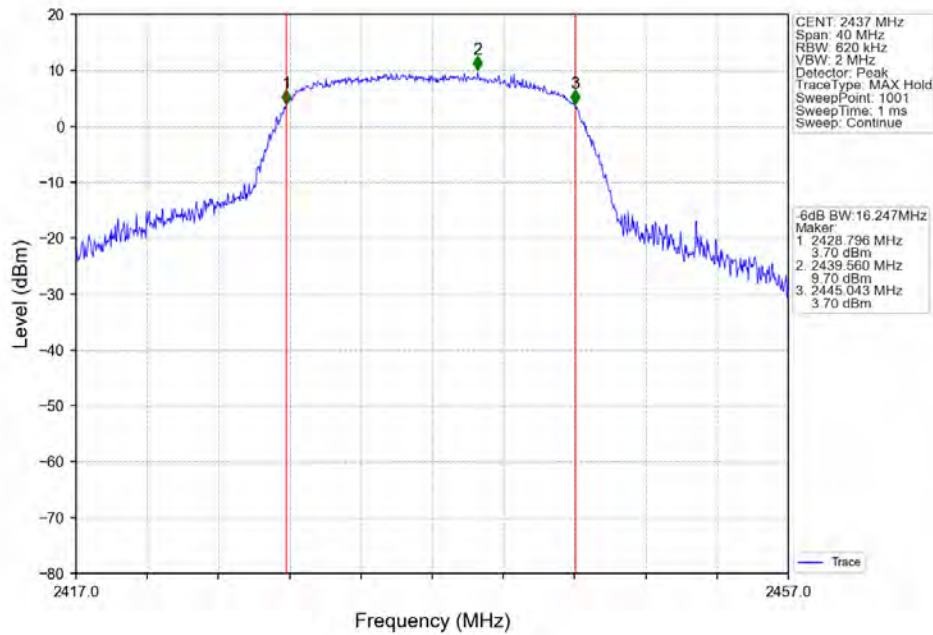
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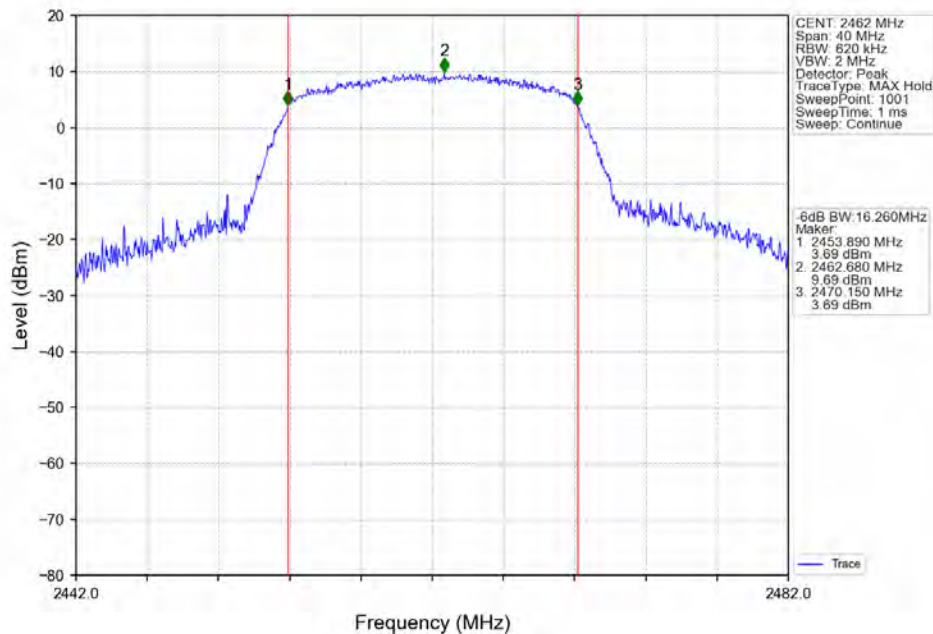
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802.11g_MCH_2437MHz_Ant7 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant7 (SISO)_NTNV



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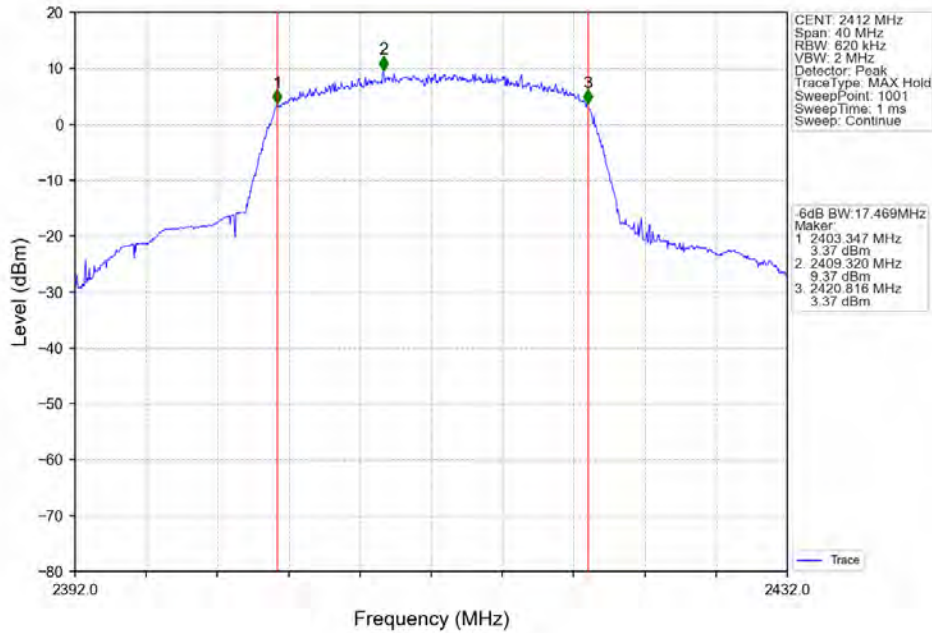
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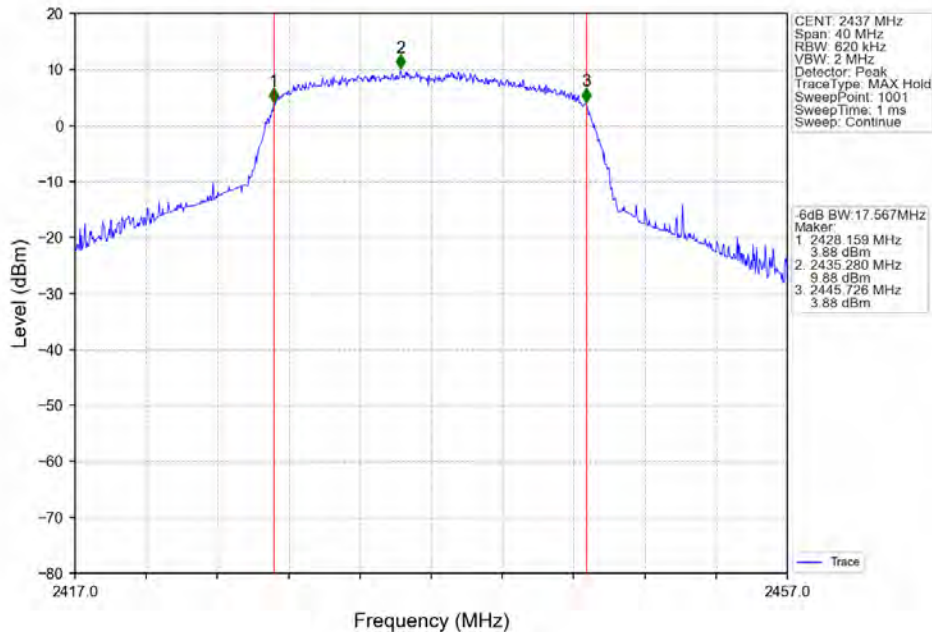
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Page: 51 of 139

802.11n(HT20)_LCH_2412MHz_Ant7 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant7 (SISO)_NTNV



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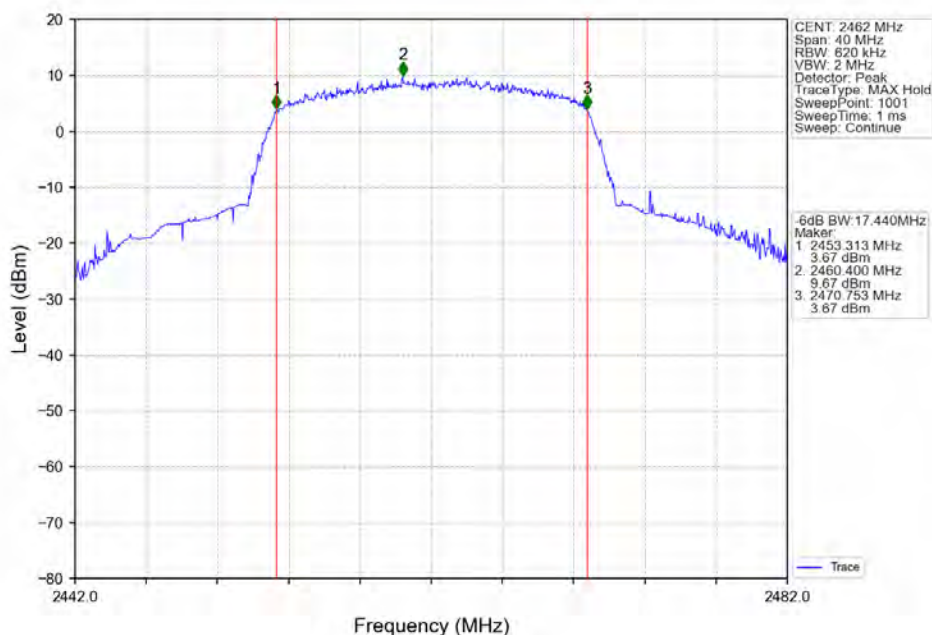
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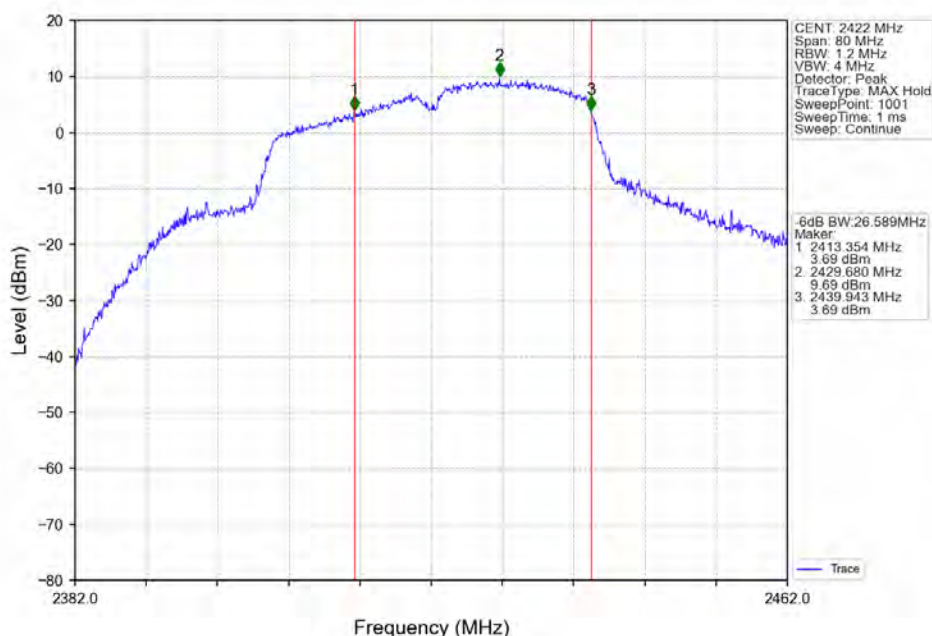
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Page: 52 of 139

802.11n(HT20) HCH_2462MHz_Ant7 (SISO)_NTNV



802.11n(HT40) LCH_2422MHz_Ant7 (SISO)_NTNV



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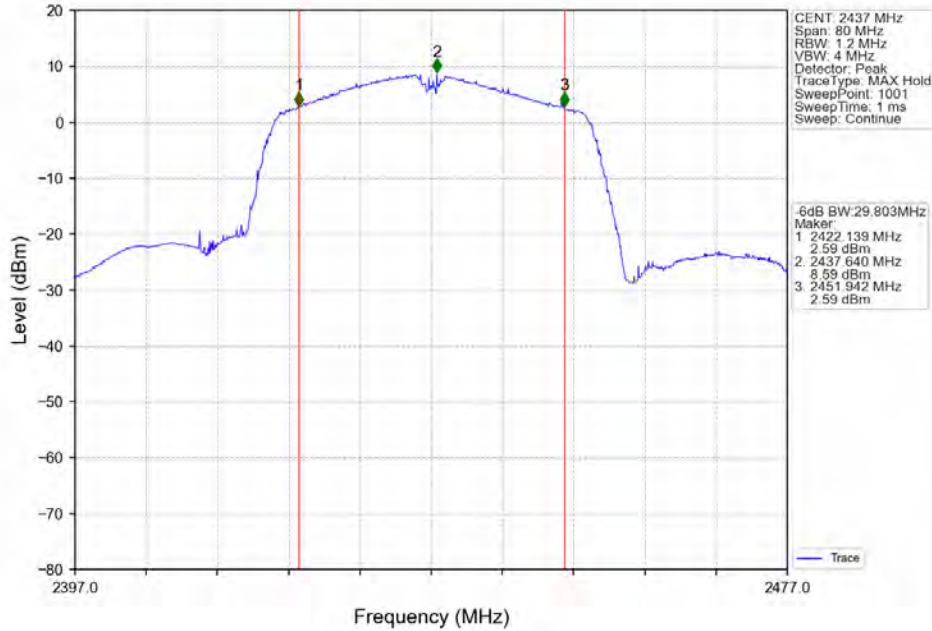
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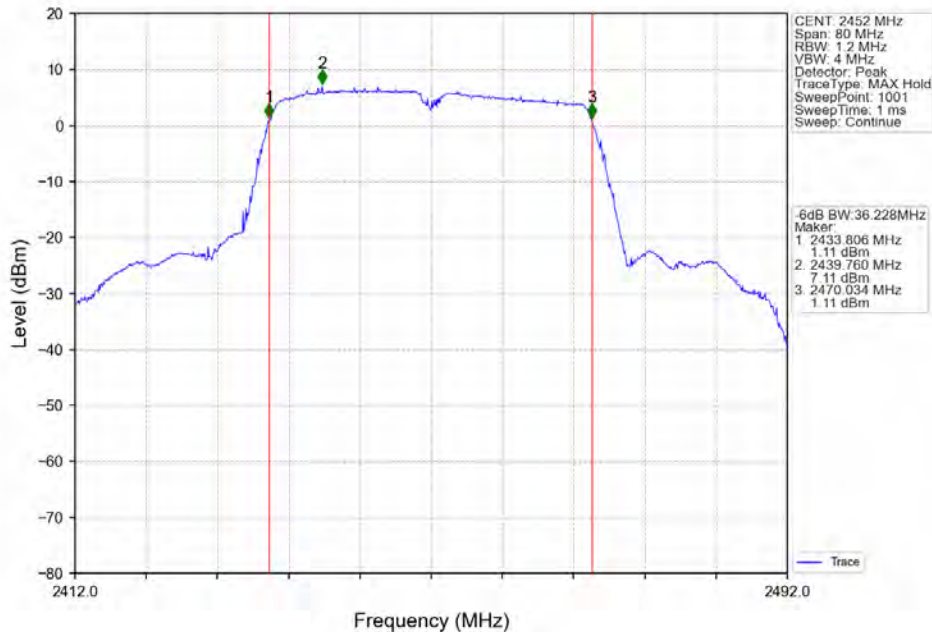
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Page: 53 of 139

802.11n(HT40) MCH_2437MHz_Ant7 (SISO) NTN



802.11n(HT40) HCH_2452MHz_Ant7 (SISO) NTN



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Report No.: SUCR240200003406

Rev.: 01

Page: 54 of 139

Maximum Conducted Output Power

Test Result

Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT7	Limit	
802.11b	SISO	2412	16.49	<=30	Pass
		2437	16.69	<=30	Pass
		2462	16.32	<=30	Pass
802.11g	SISO	2412	22.47	<=30	Pass
		2437	22.46	<=30	Pass
		2462	22.49	<=30	Pass
802.11n (HT20)	SISO	2412	22.63	<=30	Pass
		2437	22.80	<=30	Pass
		2462	22.61	<=30	Pass
802.11n (HT40)	SISO	2422	22.23	<=30	Pass
		2437	22.13	<=30	Pass
		2452	22.19	<=30	Pass



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Report No.: SUCR240200003406

Rev.: 01

Page: 55 of 139

Maximum Power Spectral Density

Test Result

PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT7	Limit	
802.11b	SISO	2412	-7.49	<=8	Pass
		2437	-6.75	<=8	Pass
		2462	-7.69	<=8	Pass
802.11g	SISO	2412	-9.12	<=8	Pass
		2437	-8.77	<=8	Pass
		2462	-8.31	<=8	Pass
802.11n (HT20)	SISO	2412	-11.07	<=8	Pass
		2437	-8.08	<=8	Pass
		2462	-10.33	<=8	Pass
802.11n (HT40)	SISO	2422	-15.63	<=8	Pass
		2437	-14.96	<=8	Pass
		2452	-17.70	<=8	Pass



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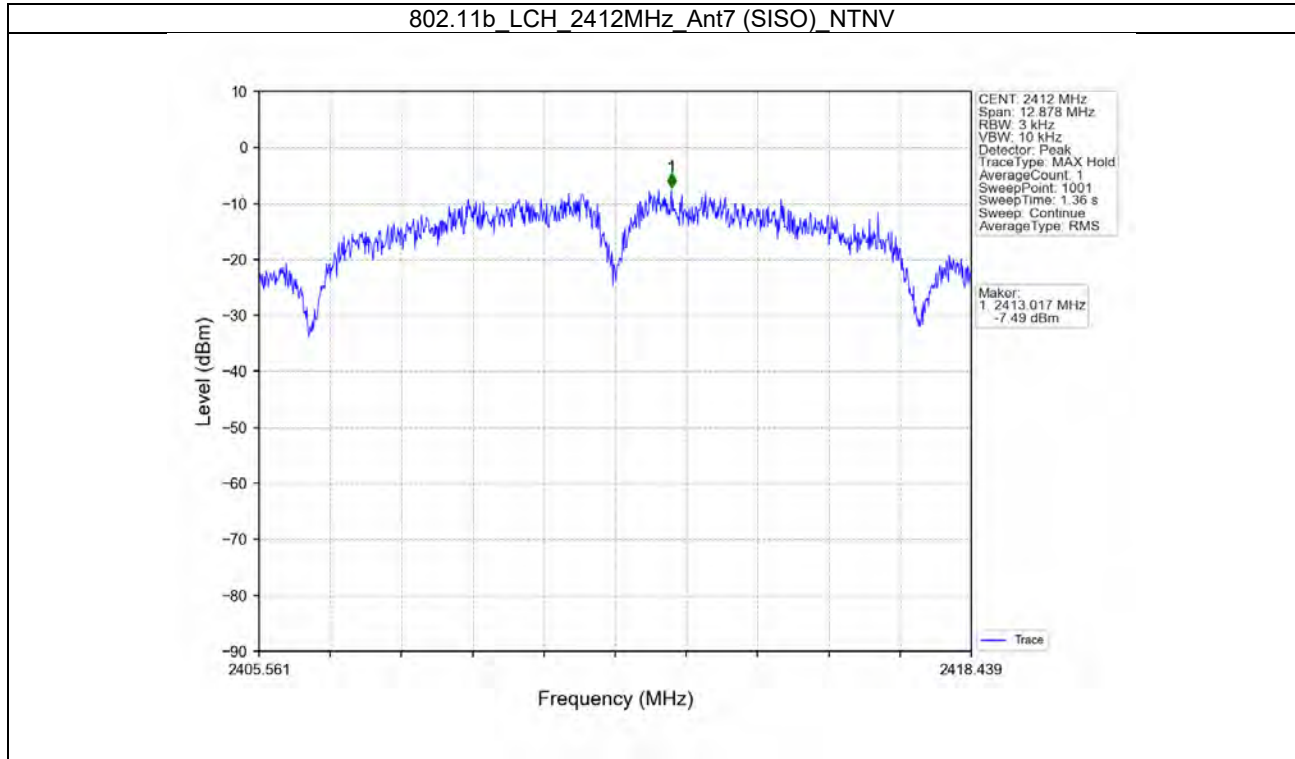
Report No.: SUCR240200003406

Rev.: 01

Page: 56 of 139

Test Graph

PSD



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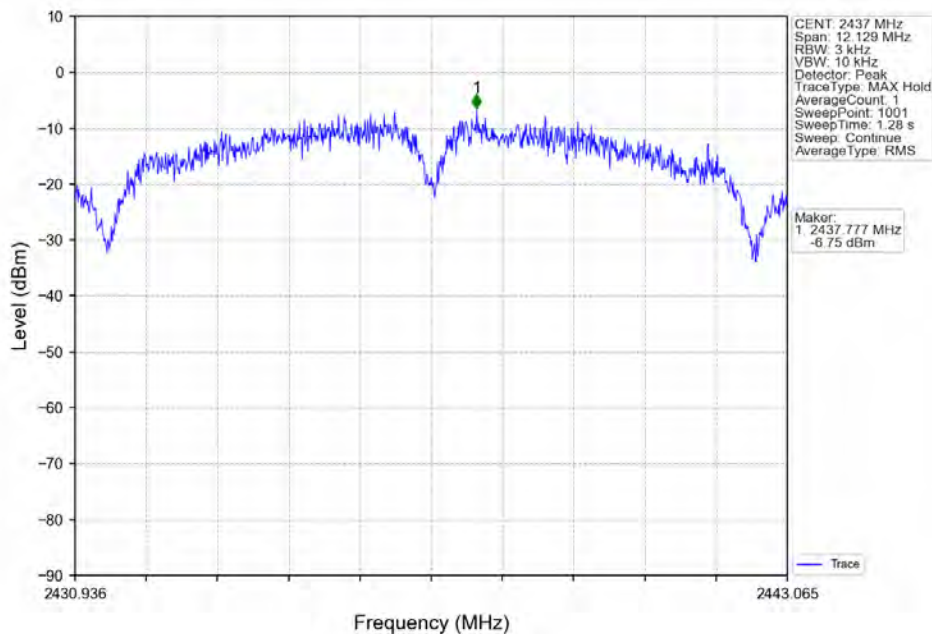
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Page: 57 of 139

802.11b_MCH_2437MHz_Ant7 (SISO) NTN



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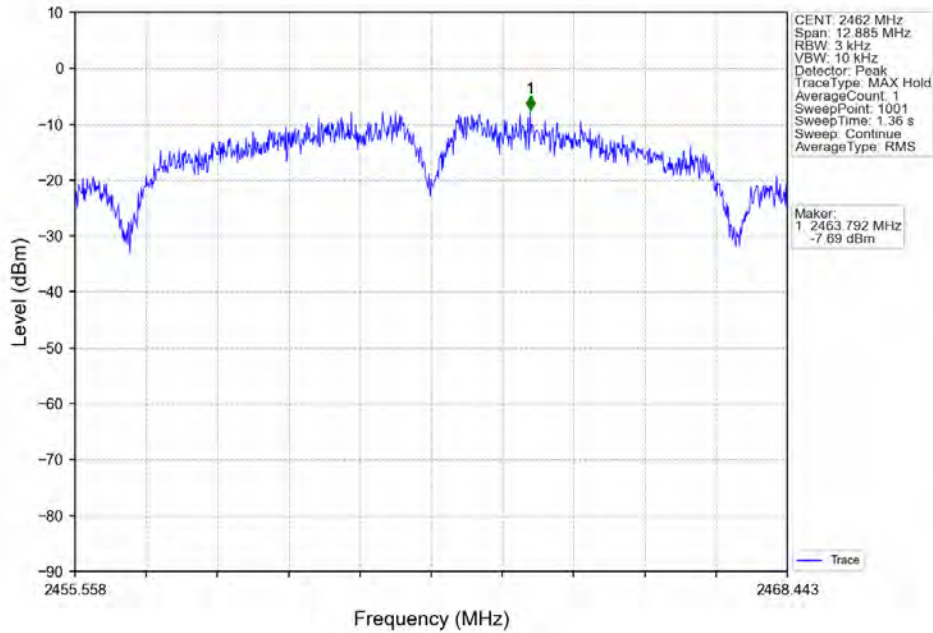
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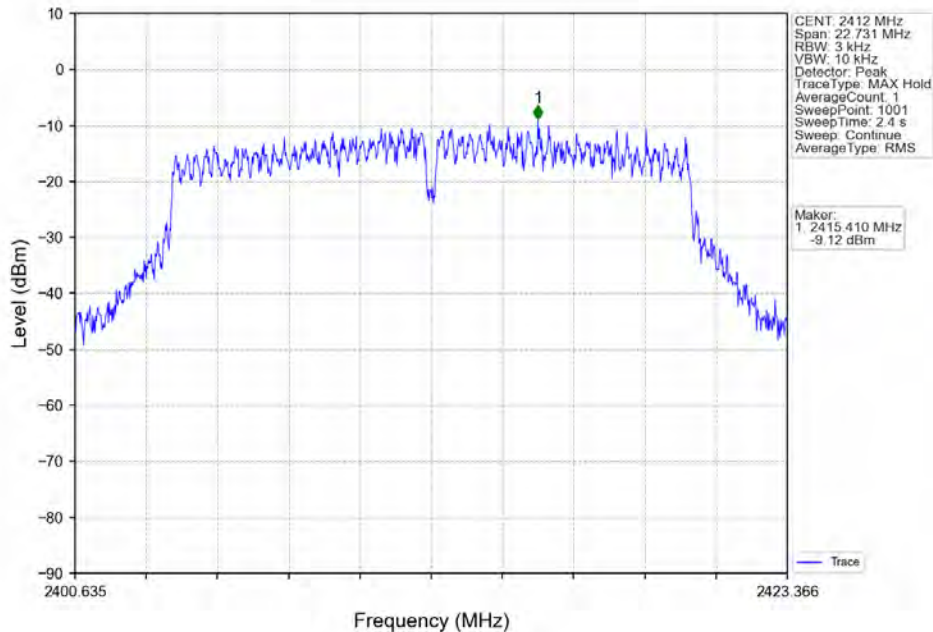
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Page: 58 of 139

802.11b_HCH_2462MHz_Ant7 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant7 (SISO)_NTNV



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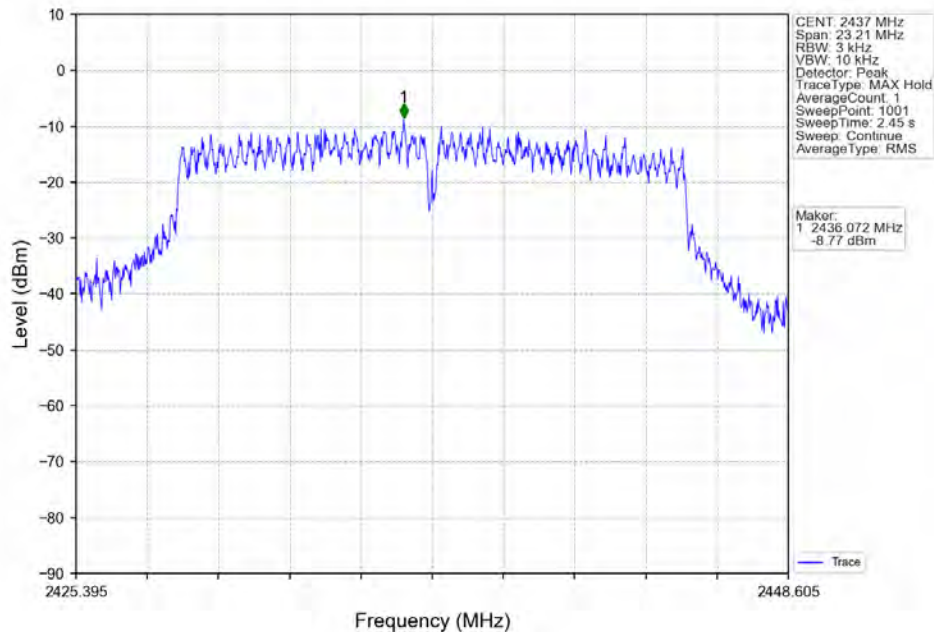
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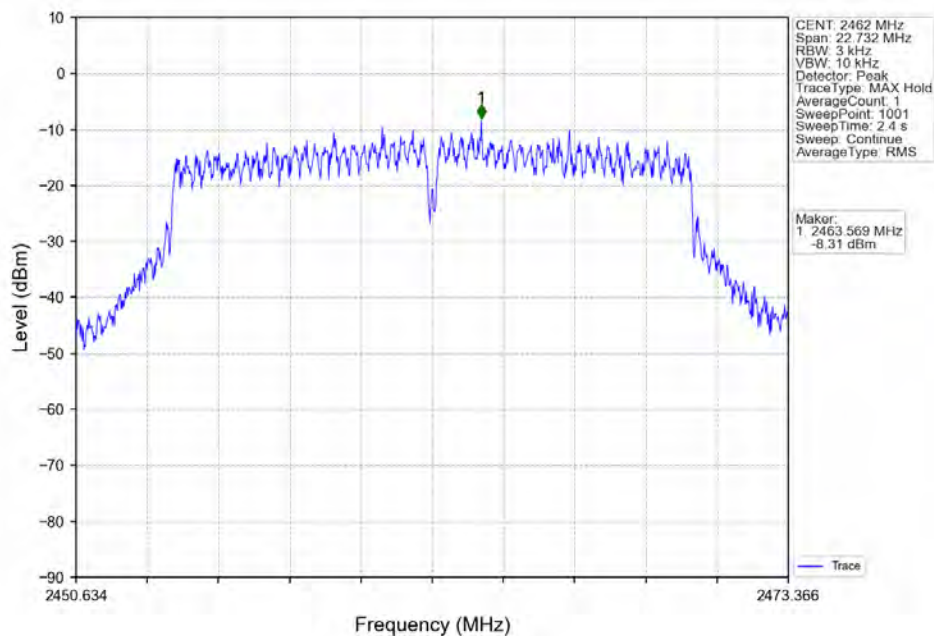
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Page: 59 of 139

802.11g_MCH_2437MHz_Ant7 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant7 (SISO)_NTNV



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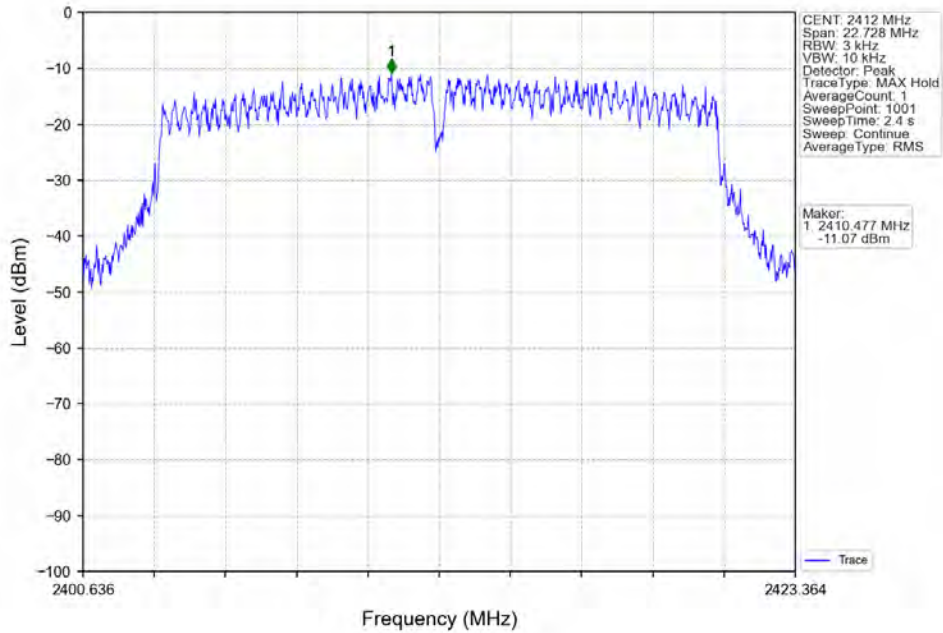
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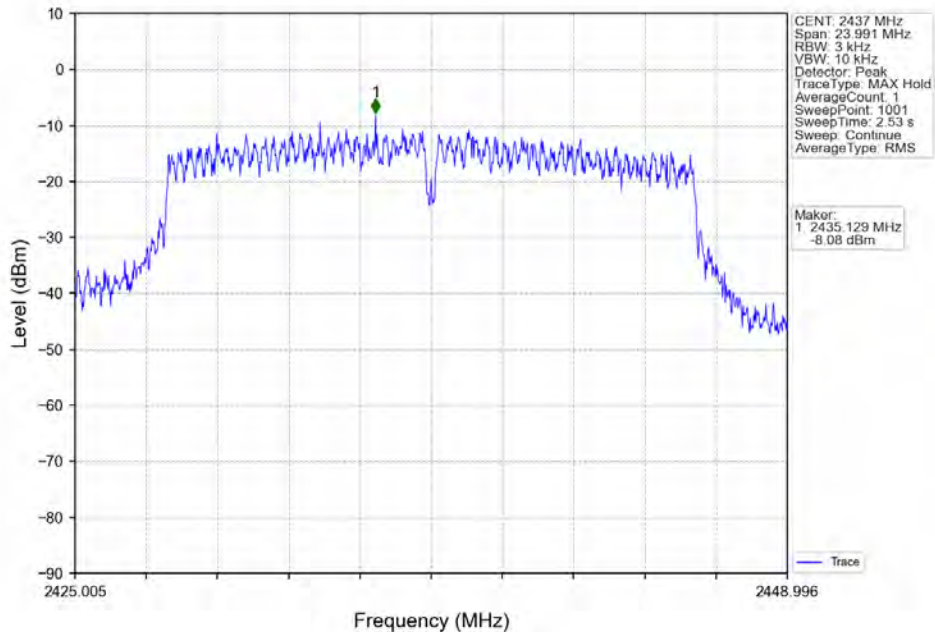
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Page: 60 of 139

802.11n(HT20) LCH 2412MHz Ant7 (SISO) NTN



802.11n(HT20) MCH 2437MHz Ant7 (SISO) NTN



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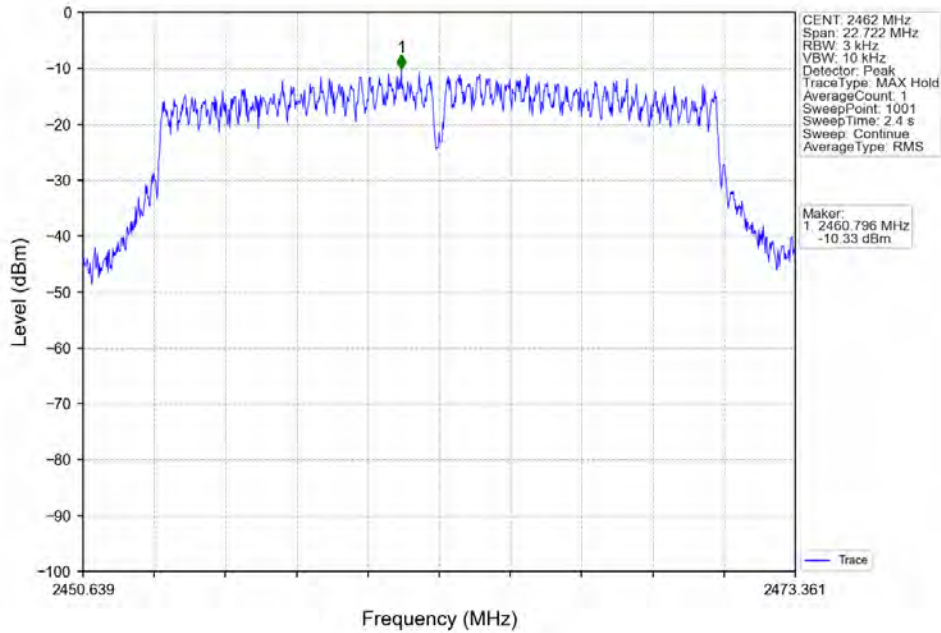
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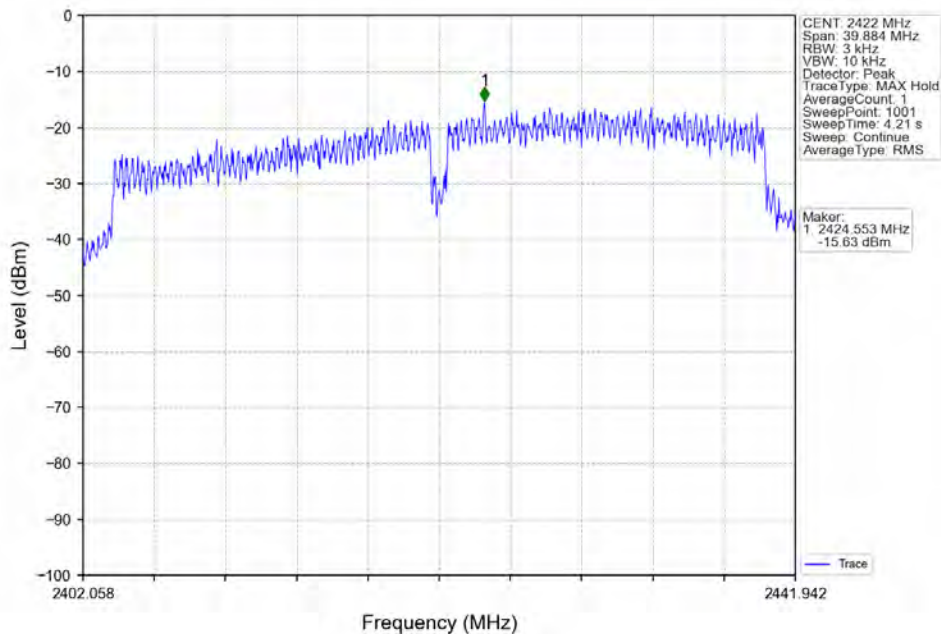
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Page: 61 of 139

802.11n(HT20)_HCH_2462MHz_Ant7 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant7 (SISO)_NTNV



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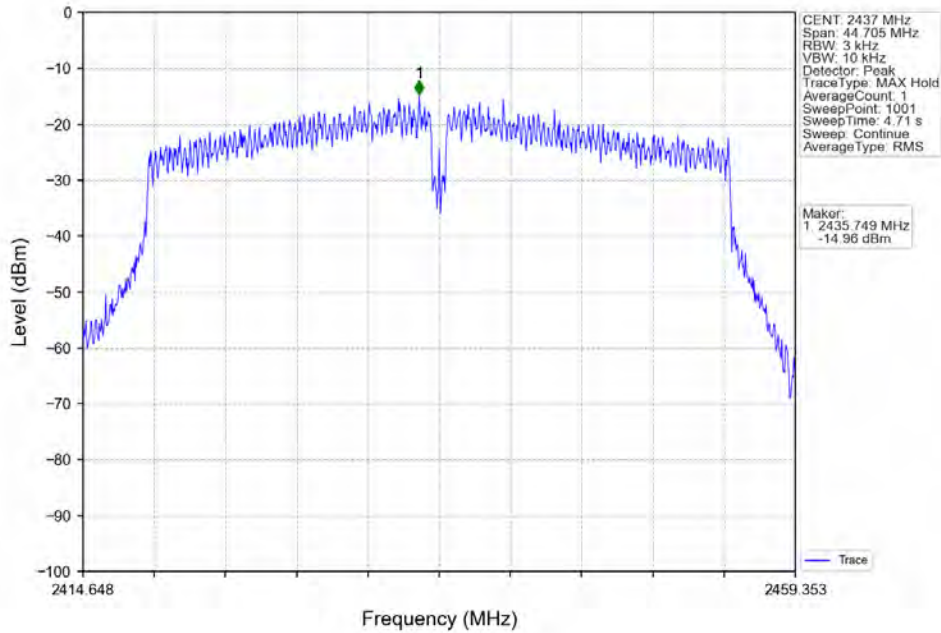
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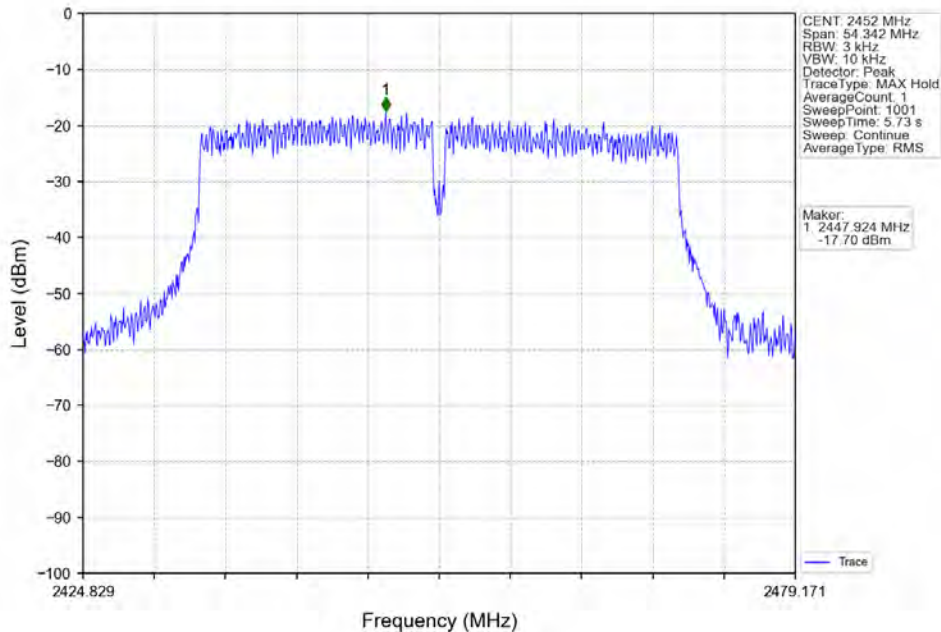
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802.11n(HT40)_MCH_2437MHz_Ant7 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant7 (SISO)_NTNV



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Rev.: 01

Page: 63 of 139

Unwanted Emissions In Non-restricted Frequency Bands

Test Result

Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	7	7.64
		2437	7	7.93
		2462	7	7.58
802.11g	SISO	2412	7	5.70
		2437	7	5.30
		2462	7	5.32
802.11n (HT20)	SISO	2412	7	5.62
		2437	7	5.18
		2462	7	5.33
802.11n (HT40)	SISO	2422	7	-0.56
		2437	7	-0.52
		2452	7	-2.34

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	7	7.93	-12.07	Pass
		2437	7	7.93	-12.07	Pass
		2462	7	7.93	-12.07	Pass
802.11g	SISO	2412	7	5.70	-14.30	Pass
		2437	7	5.70	-14.30	Pass
		2462	7	5.70	-14.30	Pass
802.11n (HT20)	SISO	2412	7	5.62	-14.38	Pass
		2437	7	5.62	-14.38	Pass
		2462	7	5.62	-14.38	Pass
802.11n (HT40)	SISO	2422	7	-0.52	-20.52	Pass
		2437	7	-0.52	-20.52	Pass
		2452	7	-0.52	-20.52	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



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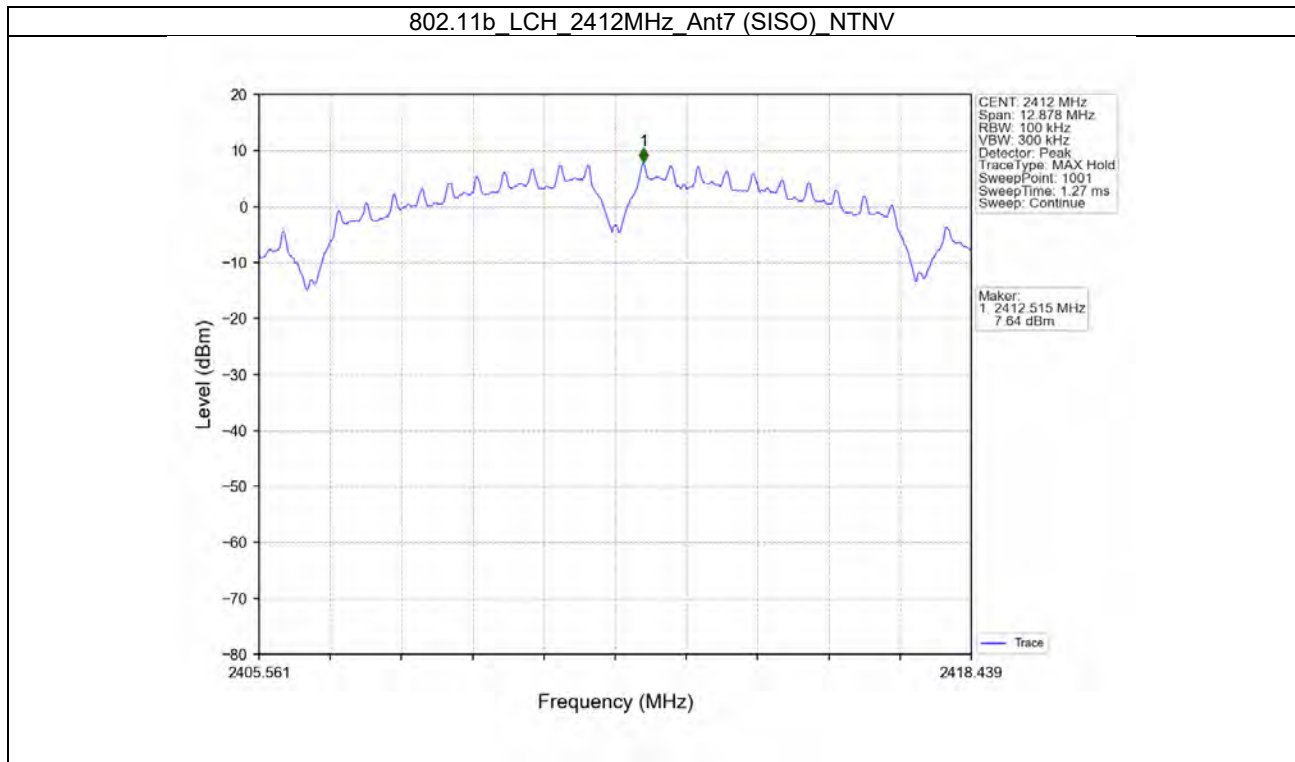
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Rev.: 01

Page: 64 of 139

Test Graph

Ref



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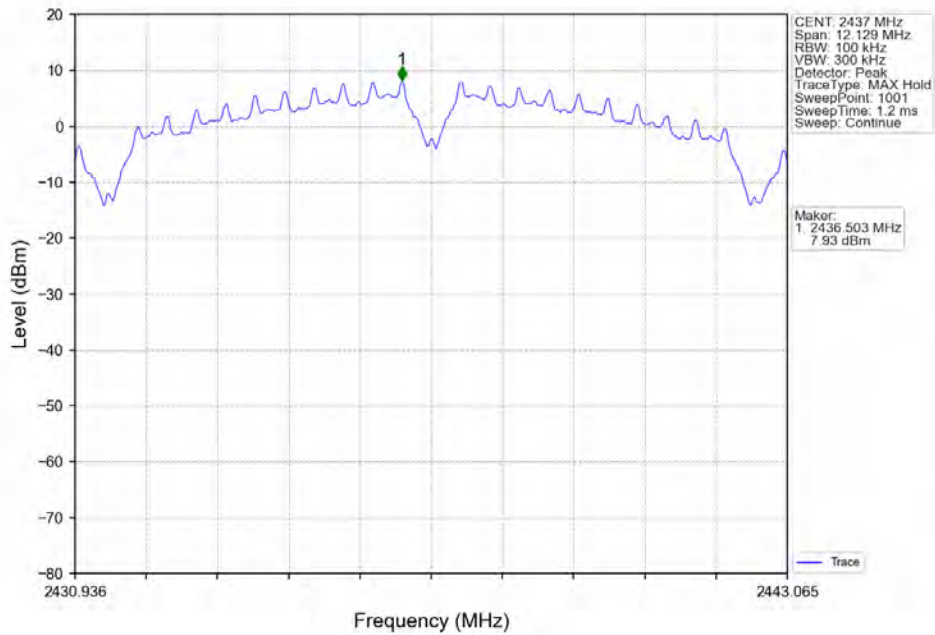
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Rev.: 01

Page: 65 of 139

802.11b_MCH_2437MHz_Ant7 (SISO) NTN



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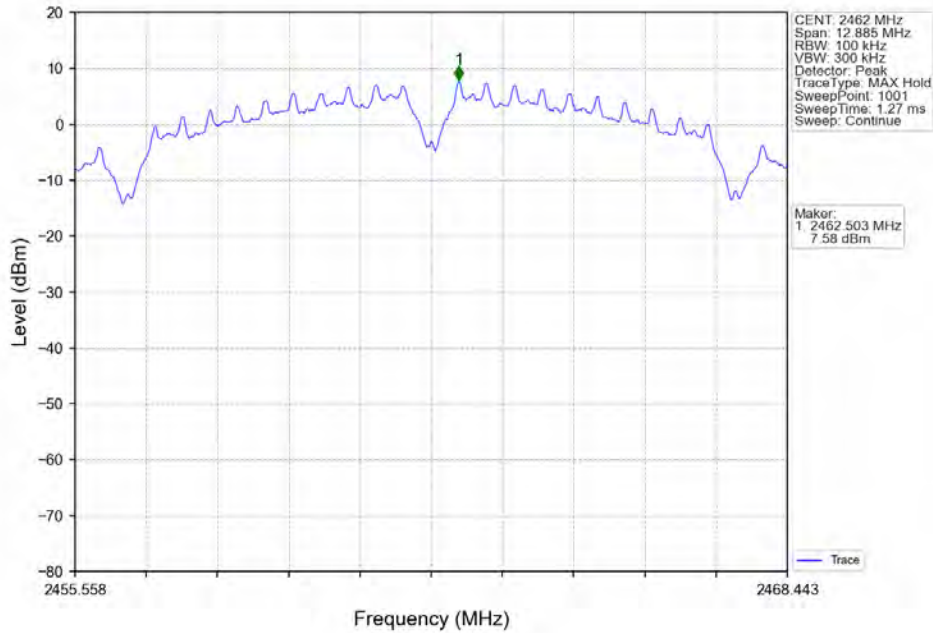
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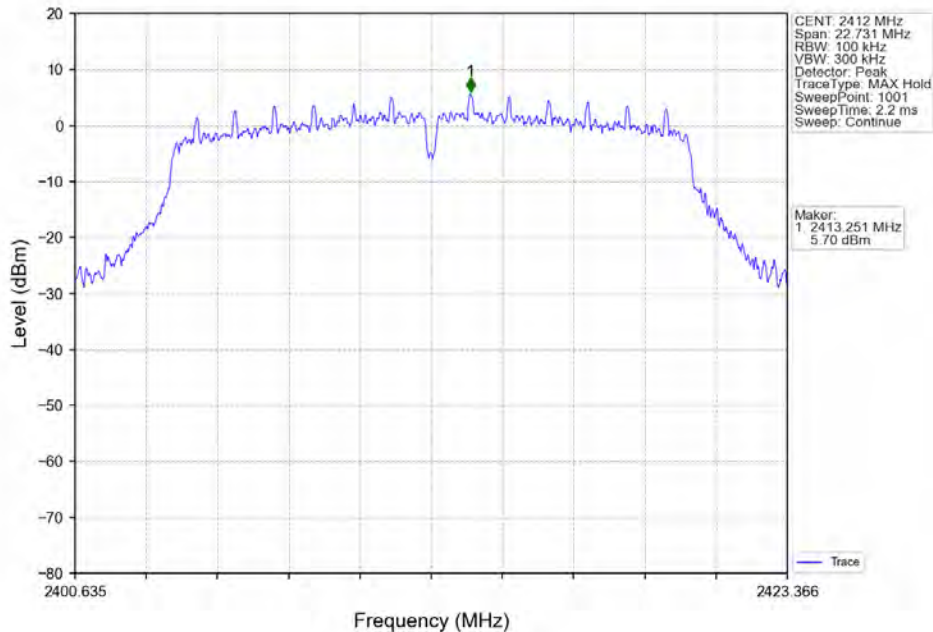
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Page: 66 of 139

802.11b_HCH_2462MHz_Ant7 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant7 (SISO)_NTNV



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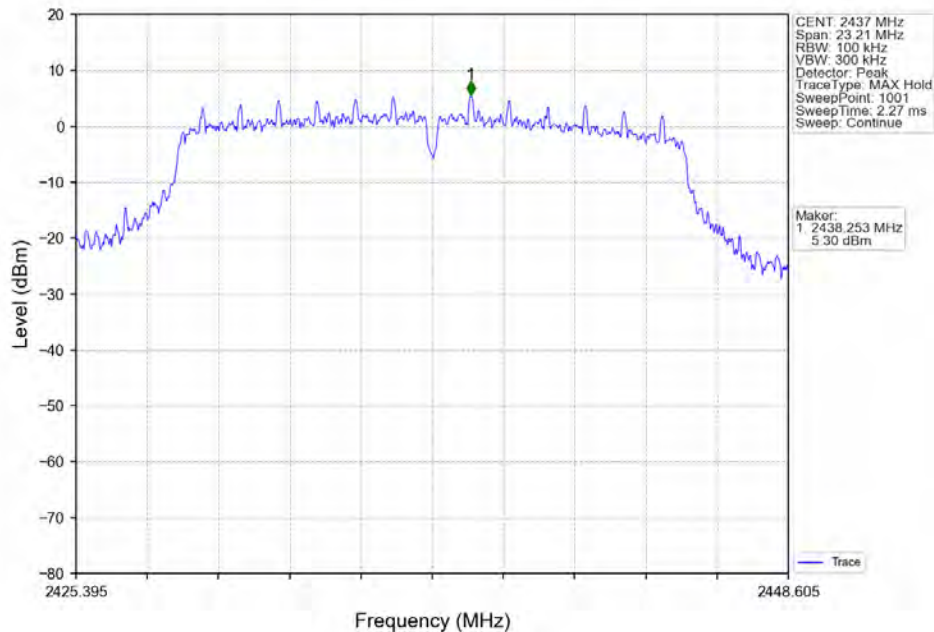
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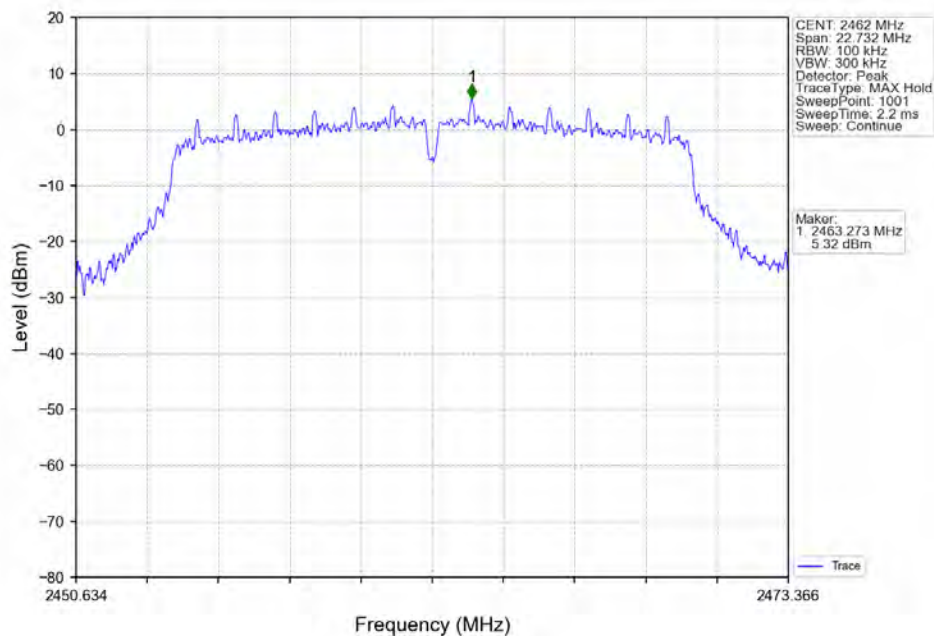
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Page: 67 of 139

802.11g_MCH_2437MHz_Ant7 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant7 (SISO)_NTNV



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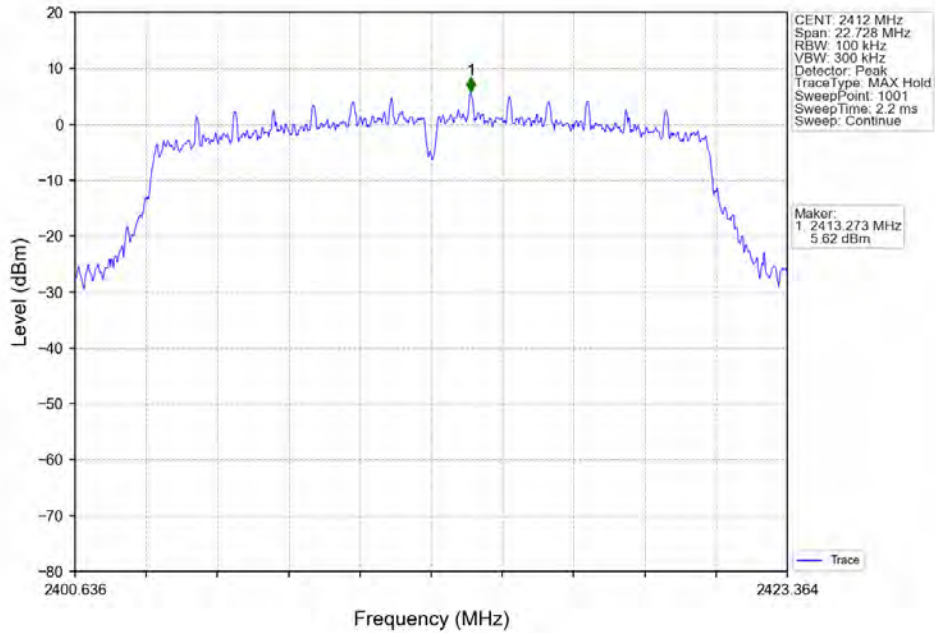
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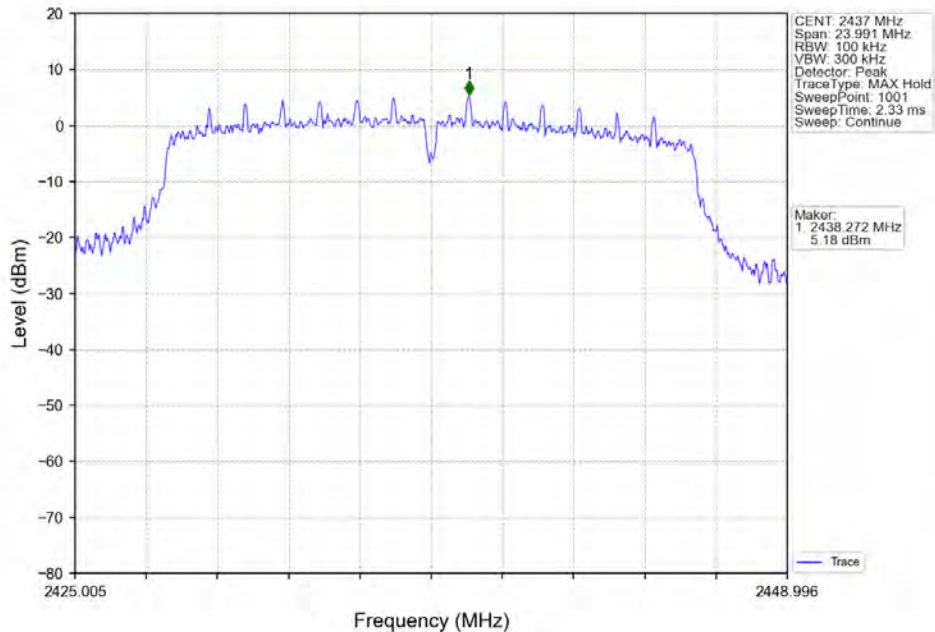
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Page: 68 of 139

802.11n(HT20) LCH 2412MHz Ant7 (SISO) NTN



802.11n(HT20) MCH 2437MHz Ant7 (SISO) NTN



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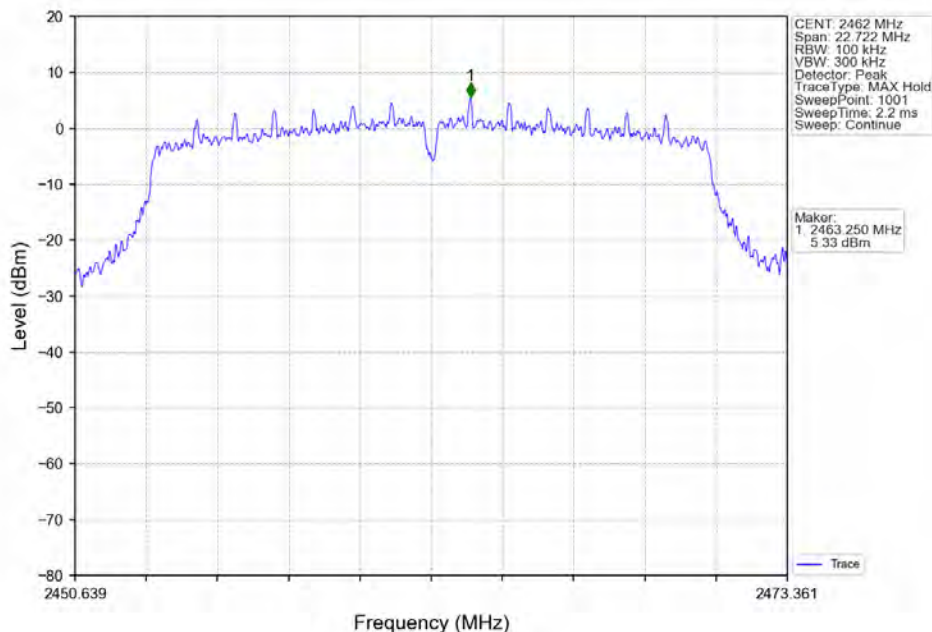
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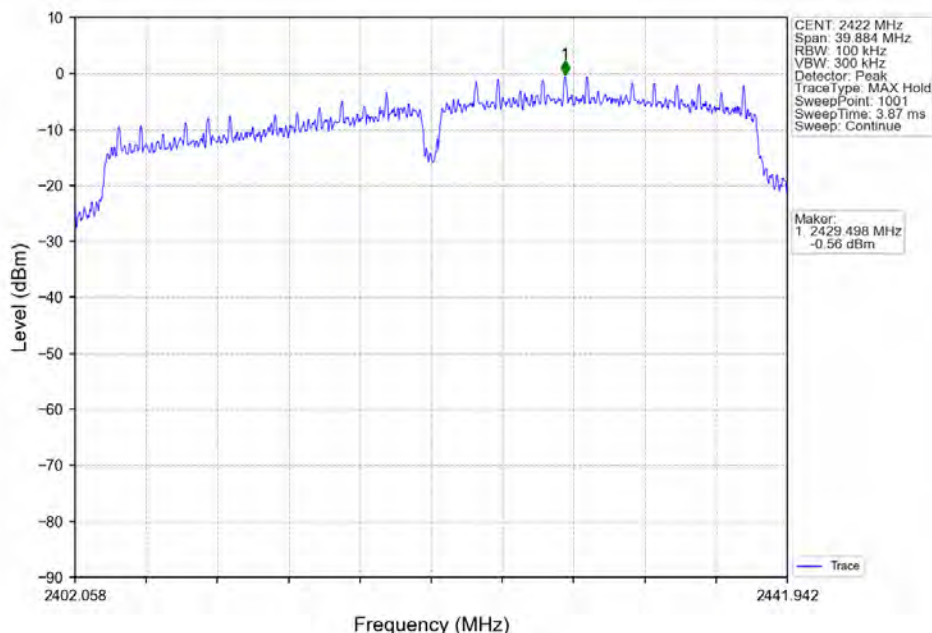
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Page: 69 of 139

802.11n(HT20)_HCH_2462MHz_Ant7 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant7 (SISO)_NTNV



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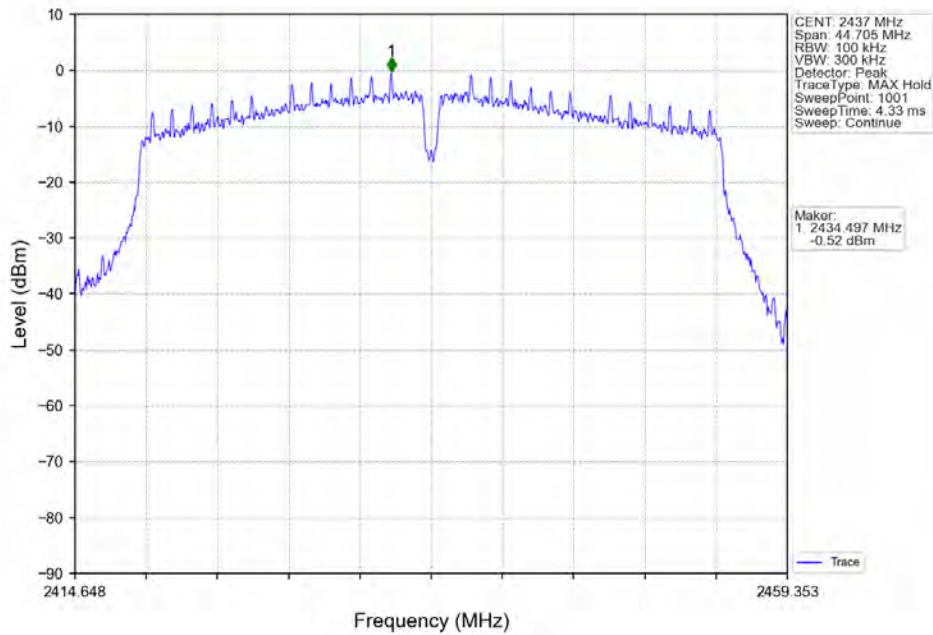
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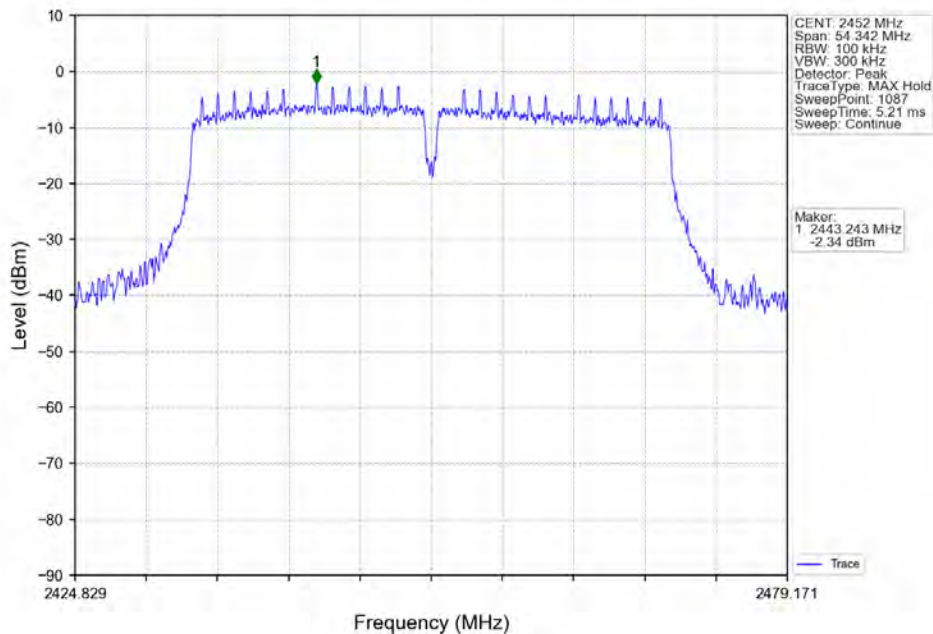
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802.11n(HT40) MCH_2437MHz_Ant7 (SISO) NTN



802.11n(HT40) HCH_2452MHz_Ant7 (SISO) NTN



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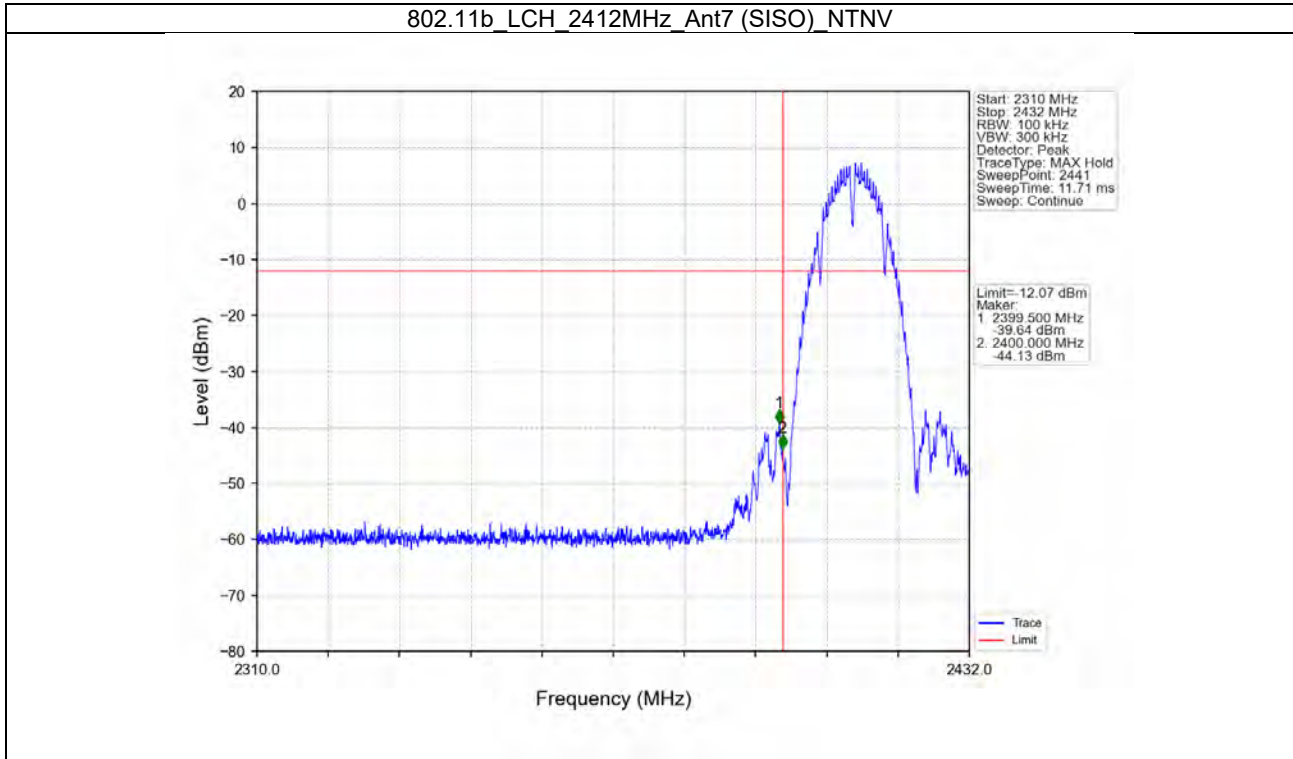
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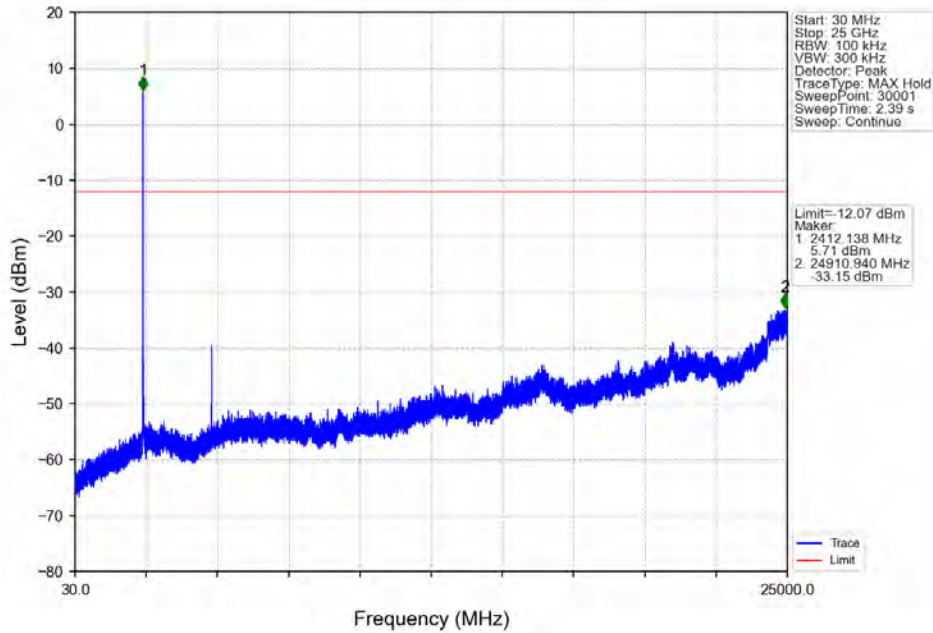
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802.11b LCH_2412MHz_Ant7 (SISO) NTN



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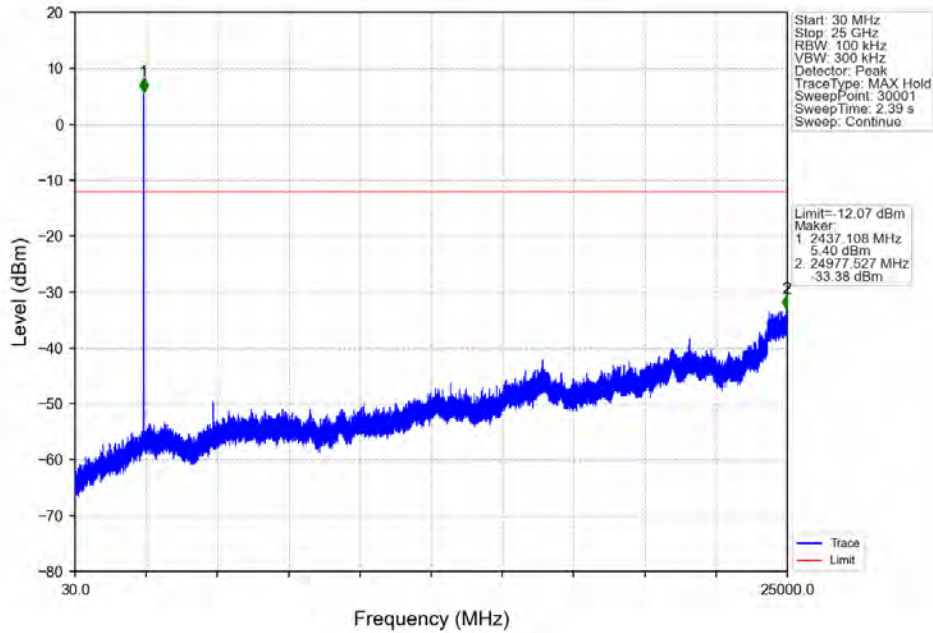
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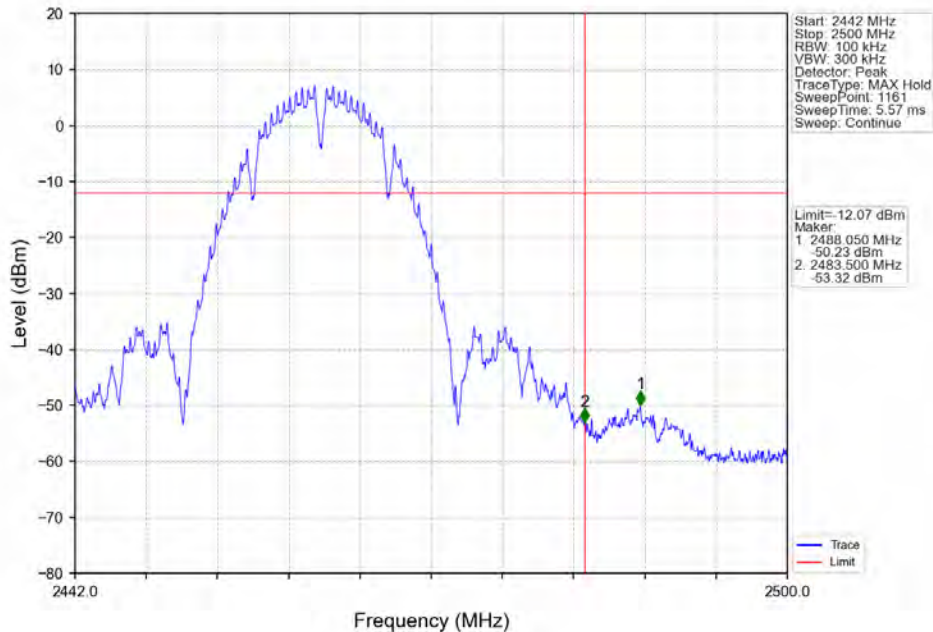
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802.11b_HCH_2462MHz_Ant7 (SISO)_NTNV



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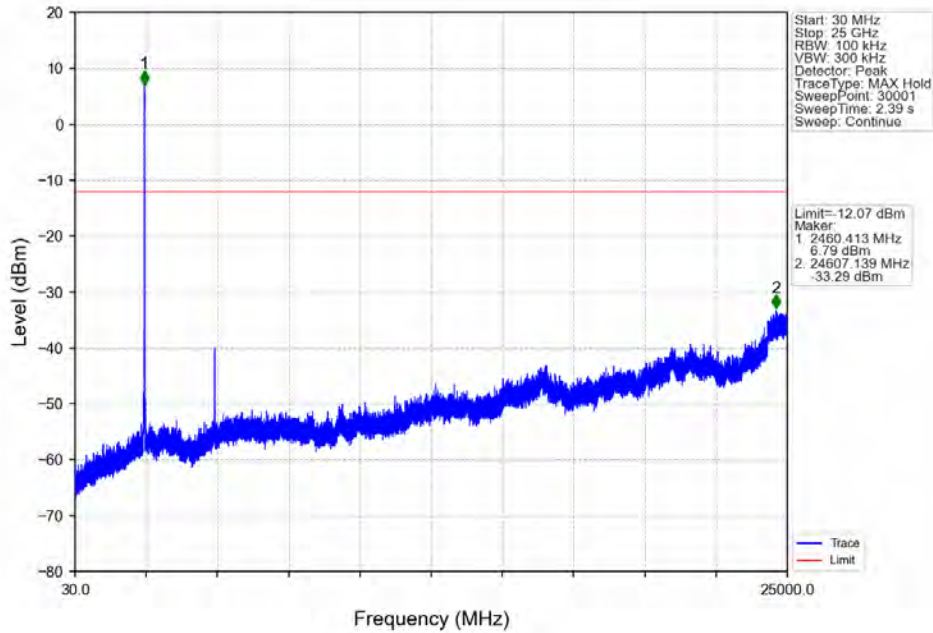
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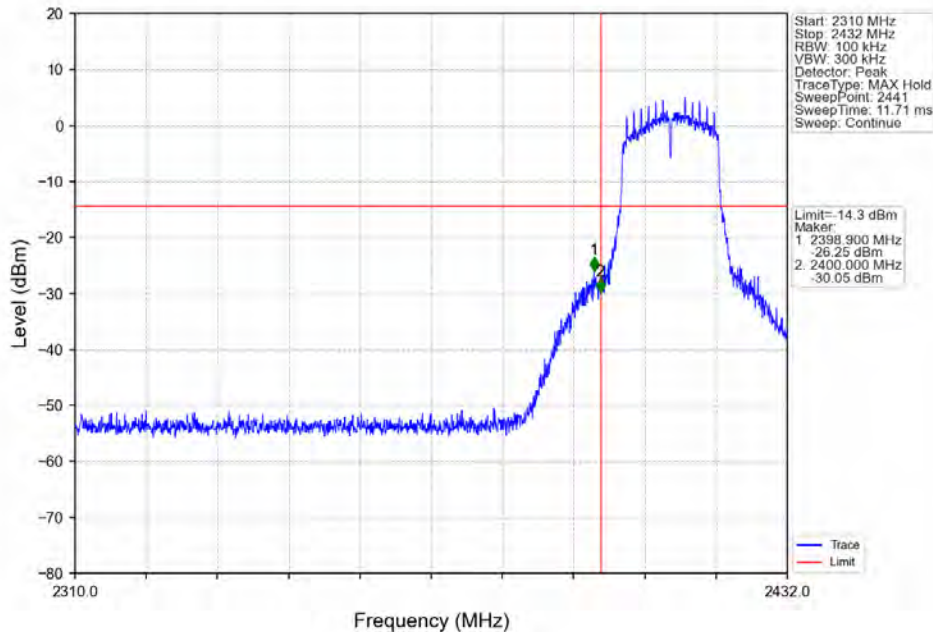
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802.11g_LCH_2412MHz_Ant7 (SISO)_NTNV



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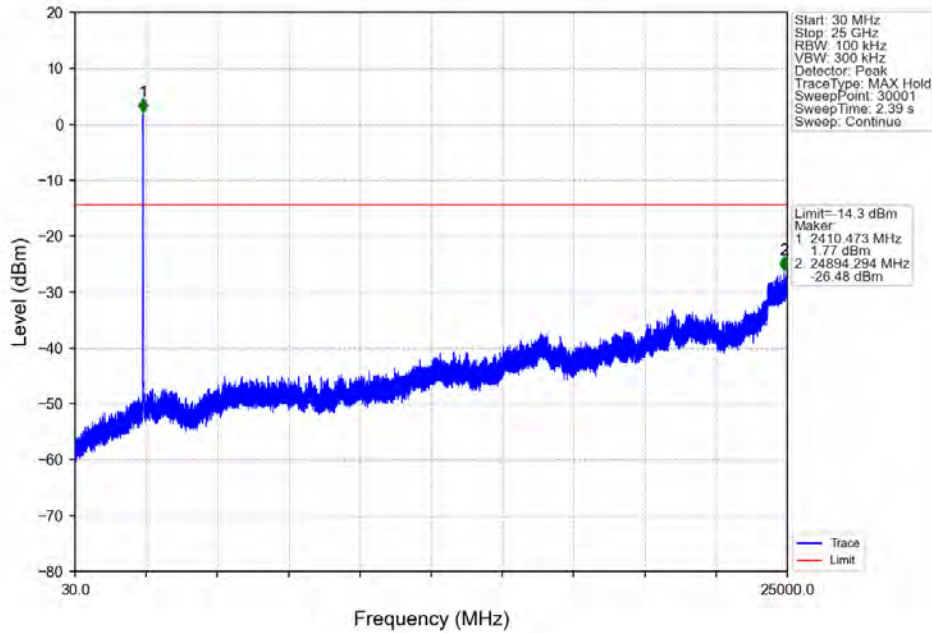
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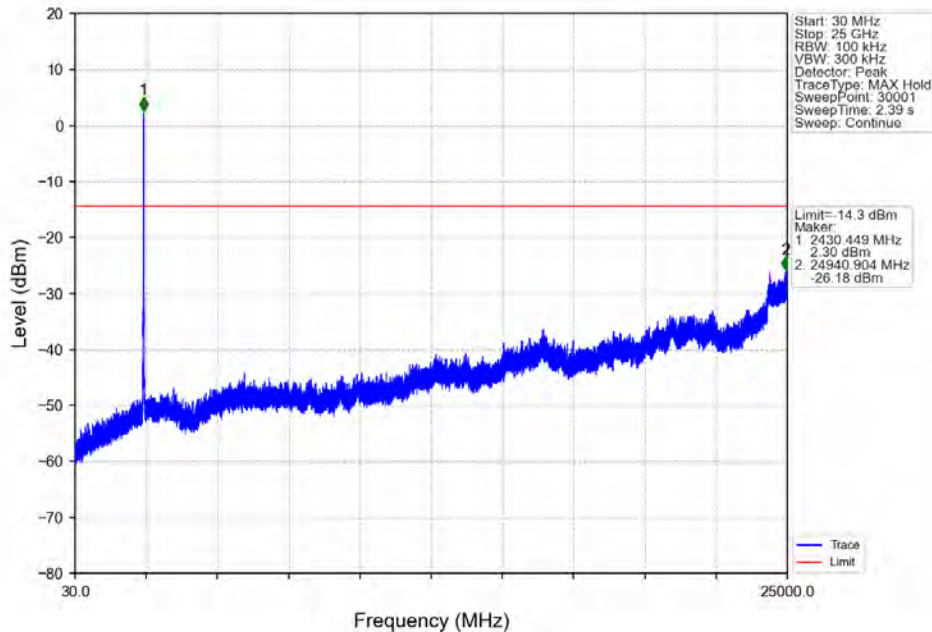
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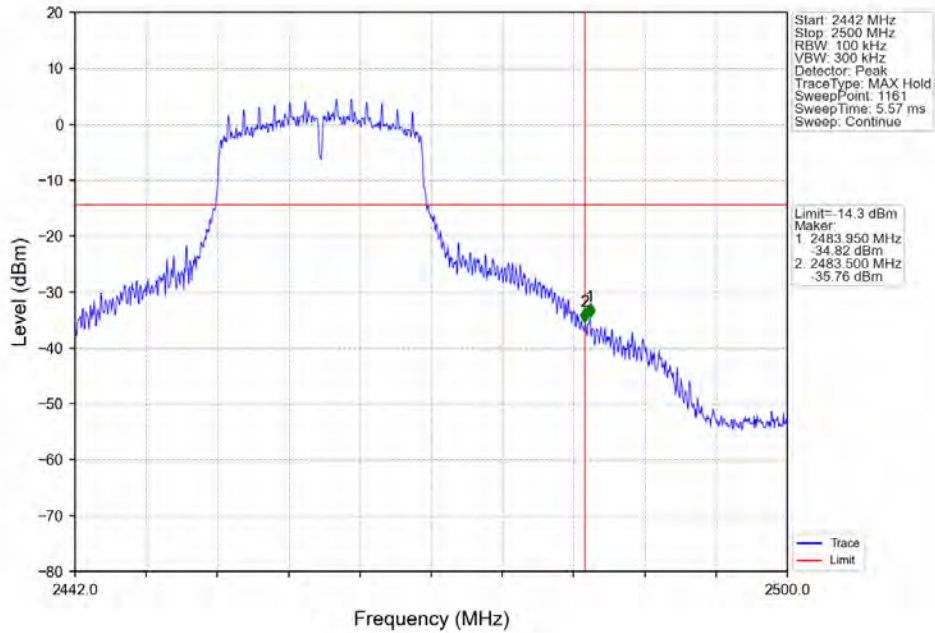
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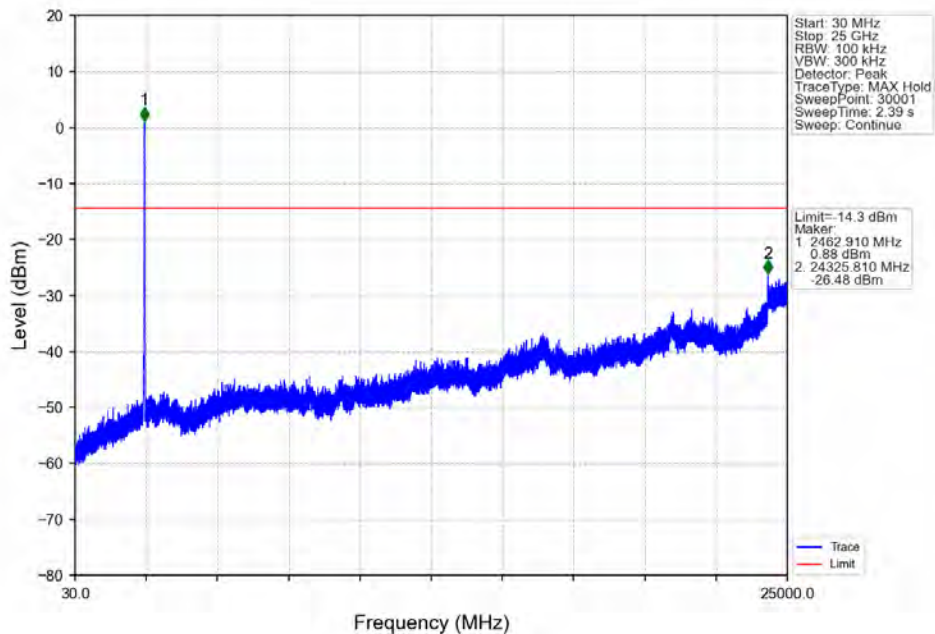
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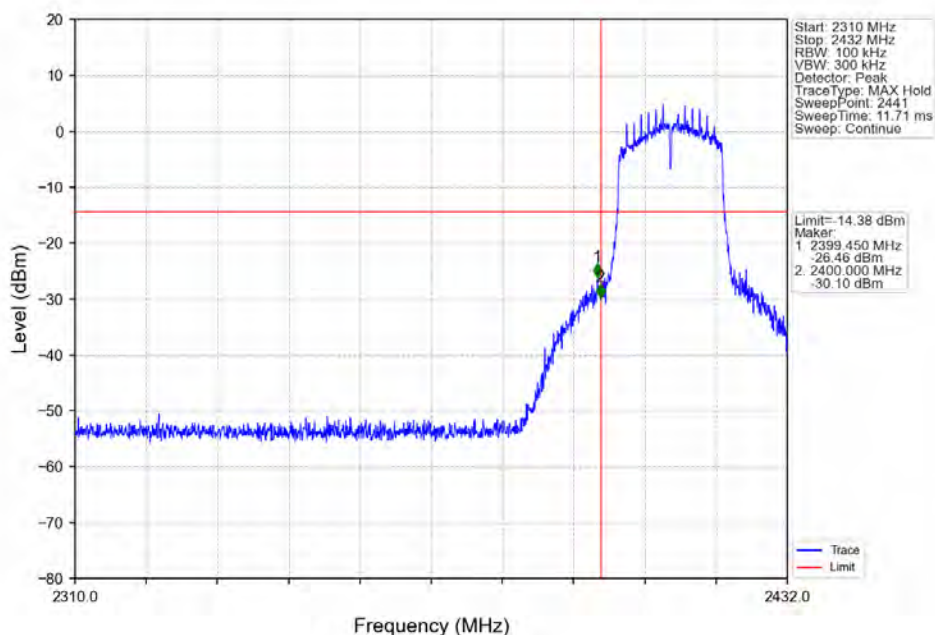
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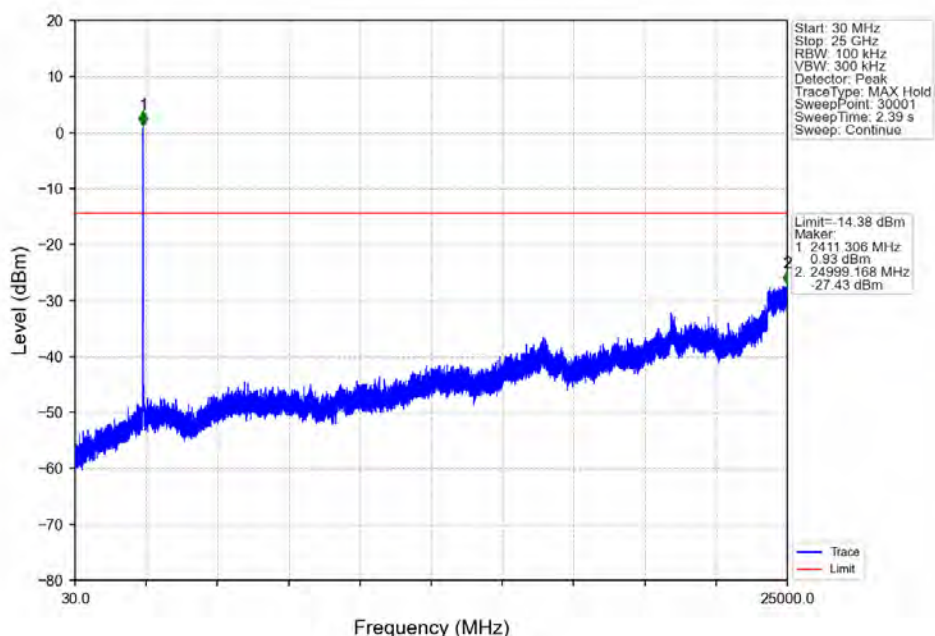
Rev.: 01

Page: 77 of 139

802.11n(HT20)_LCH_2412MHz_Ant7 (SISO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant7 (SISO)_NTNV



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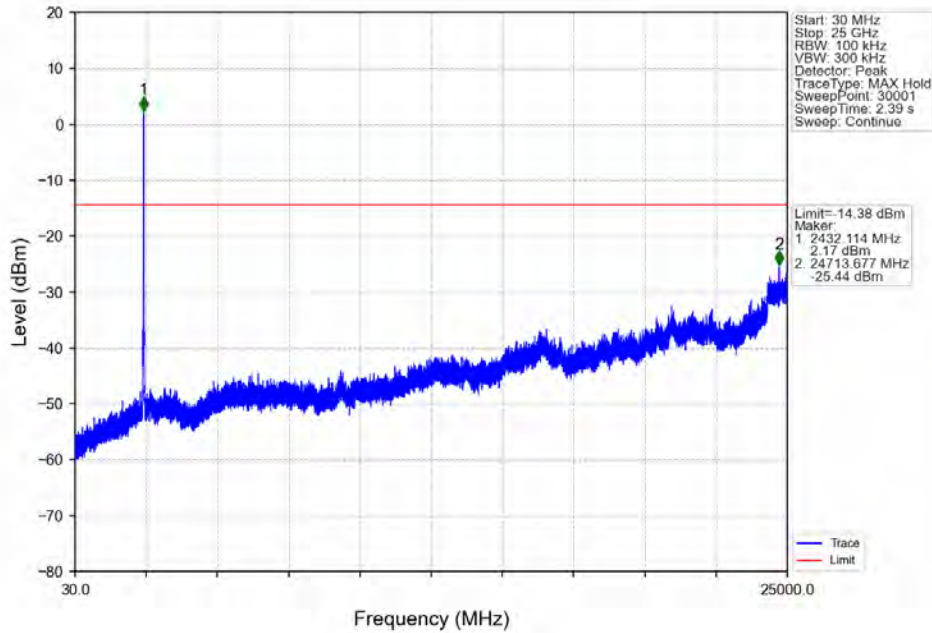
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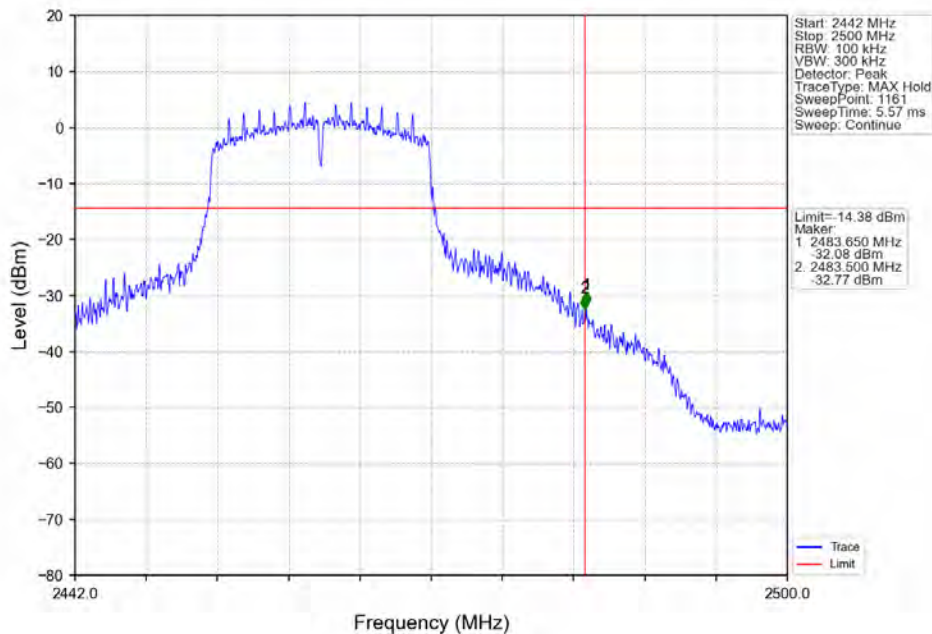
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Page: 78 of 139

802.11n(HT20)_MCH_2437MHz_Ant7 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant7 (SISO)_NTNV



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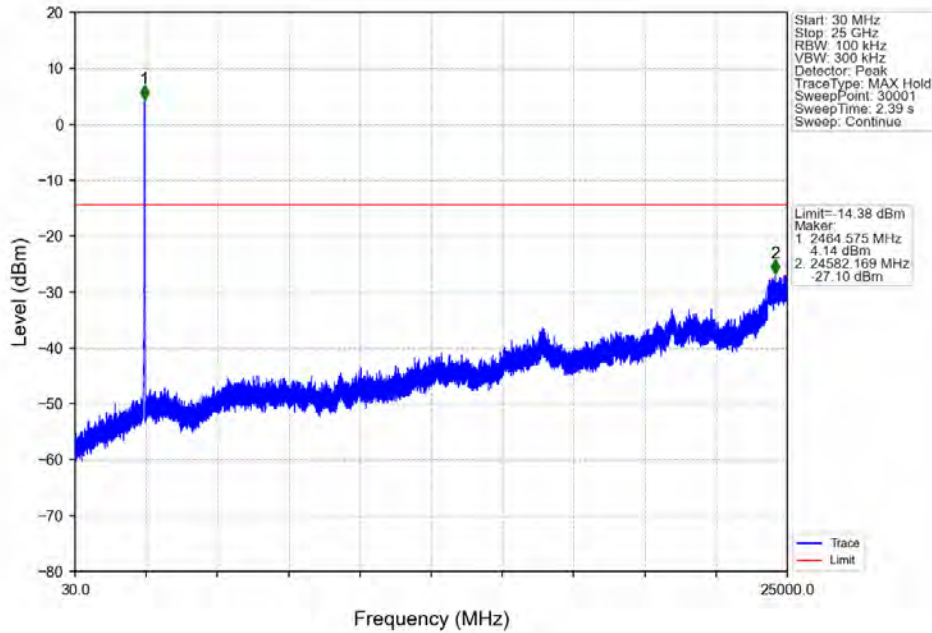
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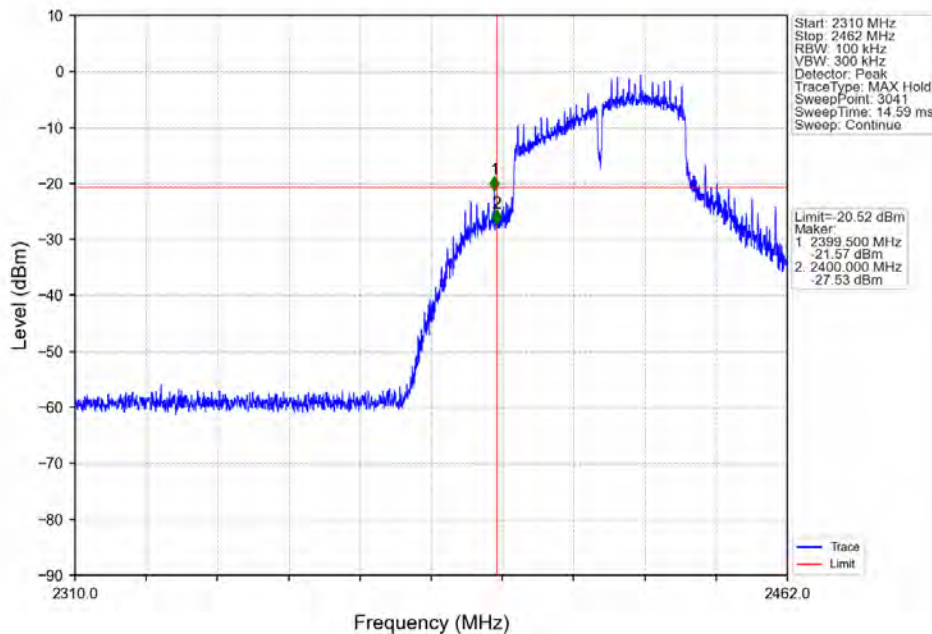
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Page: 79 of 139

802.11n(HT20)_HCH_2462MHz_Ant7 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant7 (SISO)_NTNV



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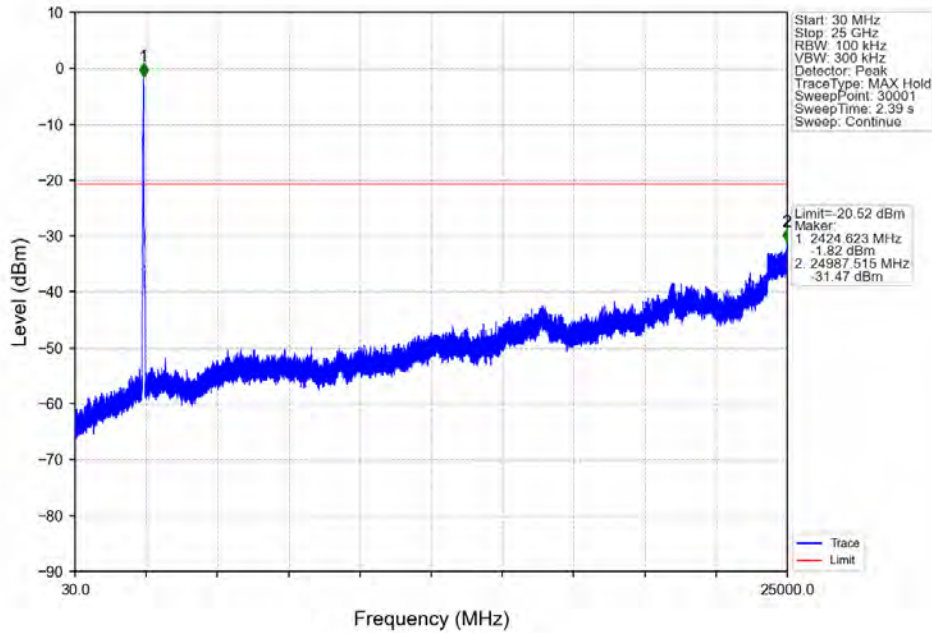
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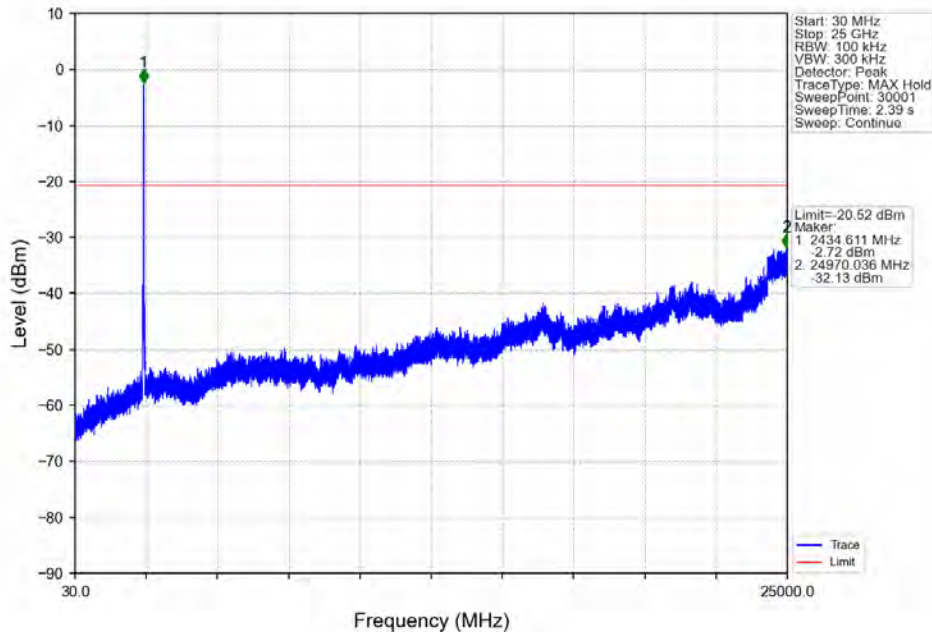
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Page: 80 of 139

802.11n(HT40) LCH 2422MHz Ant7 (SISO) NTN



802.11n(HT40) MCH 2437MHz Ant7 (SISO) NTN



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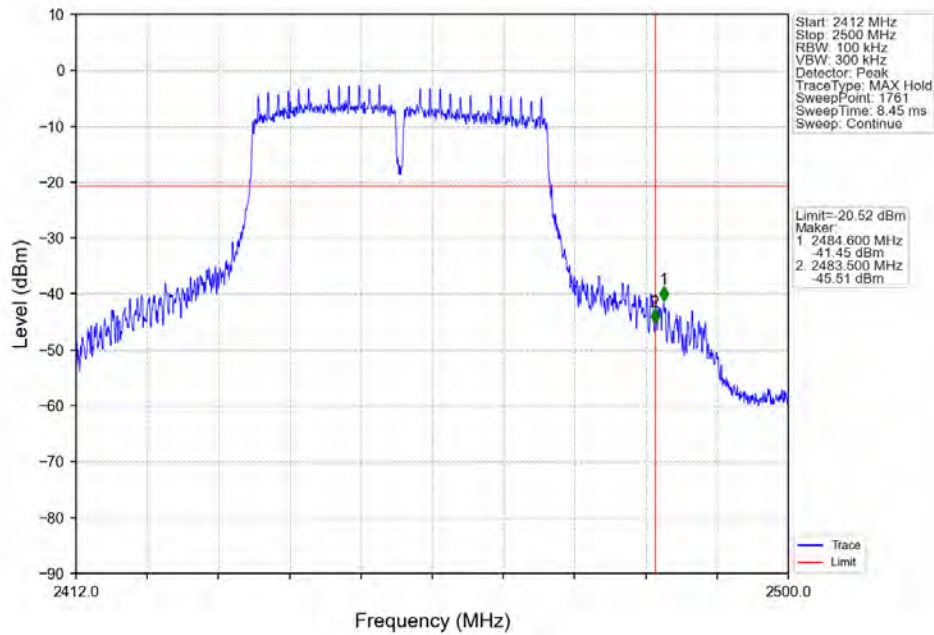
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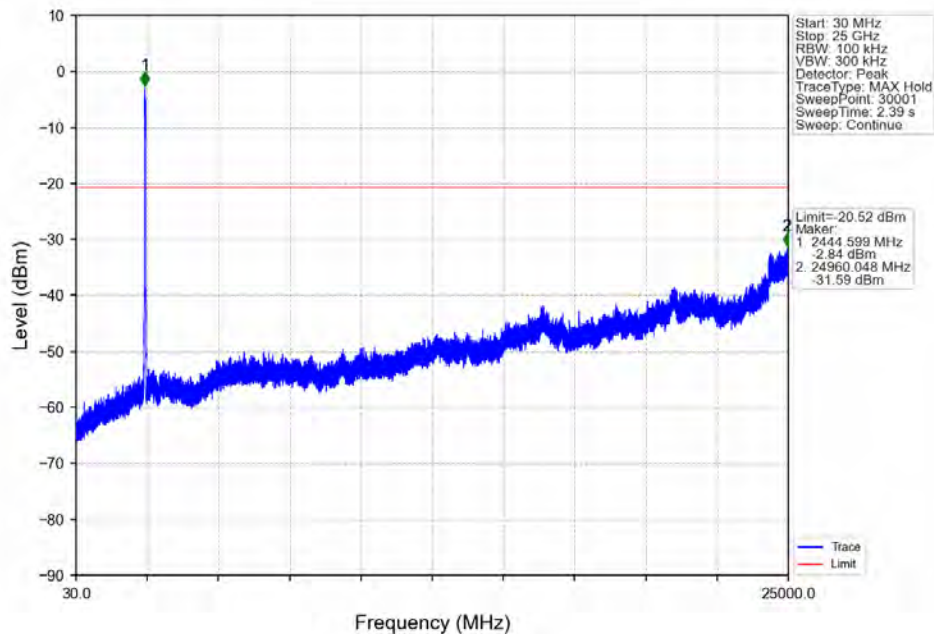
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802.11n(HT40)_HCH_2452MHz_Ant7 (SISO)_NTNV



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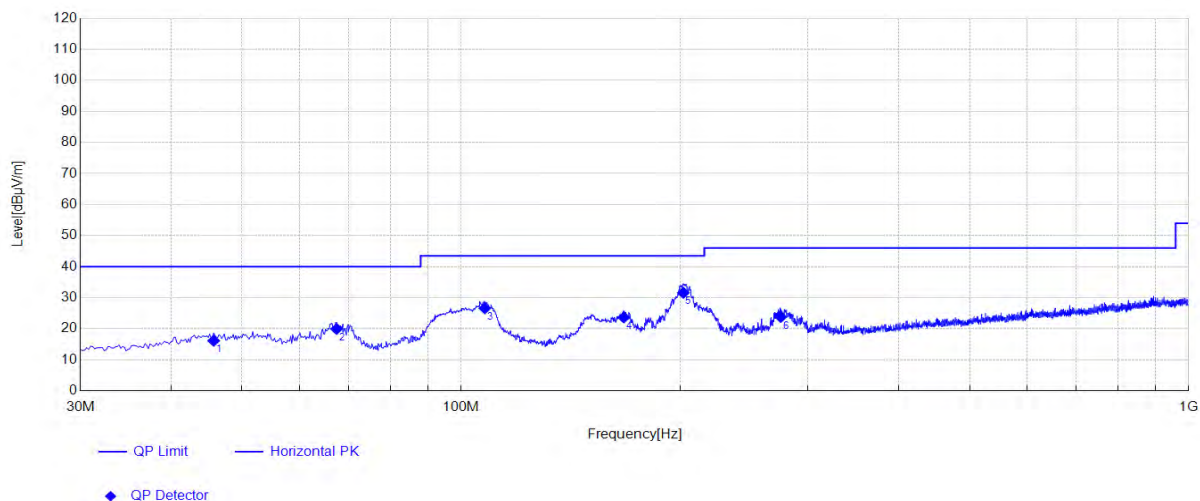
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Page: 82 of 139

Radiated Spurious Emissions

Radiated emission below 1GHz

Worst case Mode: 802.11n40_Channel 3



Data List								
NO.	Freq. [MHz]	AF[dB/m]	Factor [dB]	QP Reading [dBμV]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	45.7171	14.04	-27.57	29.69	16.16	40.00	23.84	Horizontal
2	67.4495	10.61	-26.91	36.24	19.94	40.00	20.06	Horizontal
3	107.8096	11.78	-26.67	41.48	26.59	43.50	16.91	Horizontal
4	167.3795	8.99	-26.23	40.88	23.64	43.50	19.86	Horizontal
5	202.1124	11.32	-26.19	46.46	31.59	43.50	11.91	Horizontal
6	275.071	12.90	-25.40	36.28	23.78	46.00	22.22	Horizontal



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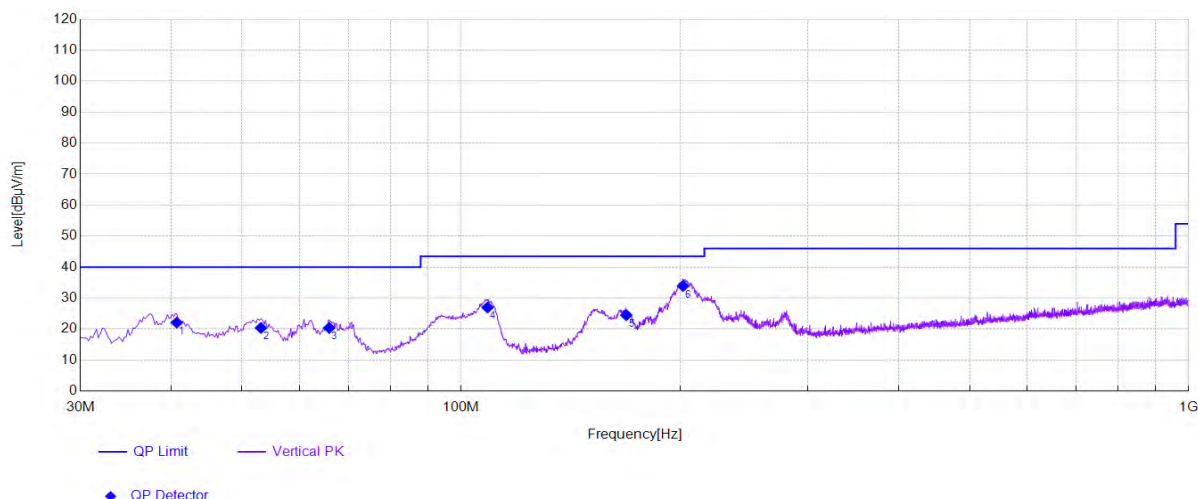
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Report No.: SUCR240200003406

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Page: 83 of 139



Data List								
NO.	Freq. [MHz]	AF[dB/m]	Factor [dB]	QP Reading [dBμV]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	40.6721	13.30	-27.66	36.47	22.11	40.00	17.89	Vertical
2	53.0906	13.98	-27.42	33.83	20.39	40.00	19.61	Vertical
3	65.8972	11.92	-26.98	35.46	20.40	40.00	19.60	Vertical
4	108.7798	11.72	-26.60	41.88	27.00	43.50	16.50	Vertical
5	168.7377	8.87	-26.21	41.84	24.50	43.50	19.00	Vertical
6	201.9184	11.32	-26.19	48.79	33.92	43.50	9.58	Vertical

Remark:

- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

$$\text{Value} = \text{Reading}(\text{dB}\mu\text{V}) + \text{AF}(\text{dB}/\text{m}) + \text{Factor}(\text{dB})$$

$$\text{AF} = \text{Antenna Factor}(\text{dB}/\text{m})$$

$$\text{Factor} = \text{Cable Factor}(\text{dB}) - \text{Preamplifier gain}(\text{dB})$$

$$\text{Margin} = \text{Limit}(\text{dB}\mu\text{V}/\text{m}) - \text{Value}(\text{dB}\mu\text{V}/\text{m})$$
- All channels have been tested, but only the worst case data displayed in this report.



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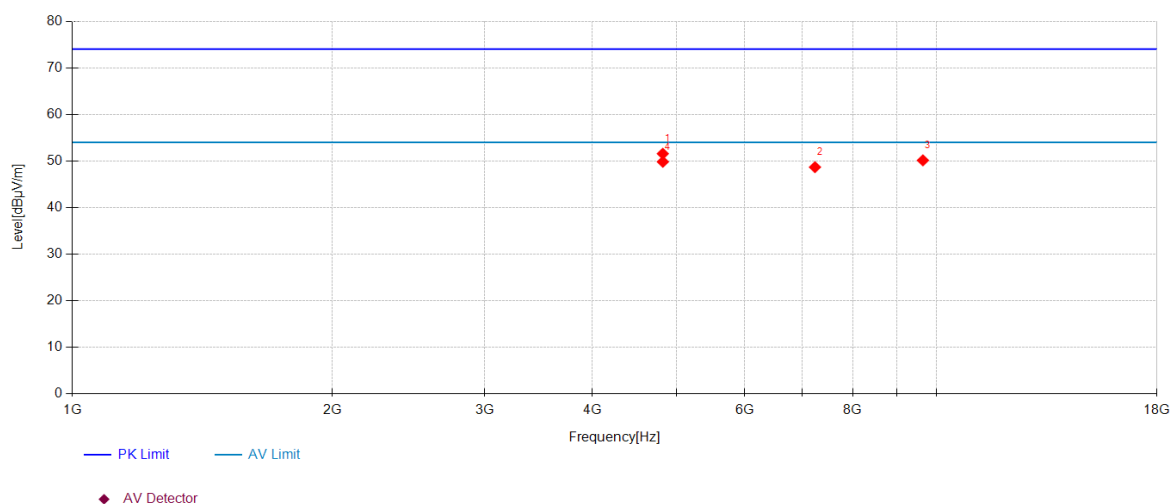
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Rev.: 01

Page: 84 of 139

Transmitter emission Above 1GHz

802.11b_Channel 1



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4824	63.52	30.70	-42.66	51.56	74.00	22.44	Horizontal
2	7236	50.72	36.38	-38.44	48.66	74.00	25.34	Horizontal
3	9648	46.75	38.09	-34.71	50.13	74.00	23.87	Horizontal
4	4824.5	61.78	30.70	-42.66	49.82	54.00	4.18	Horizontal



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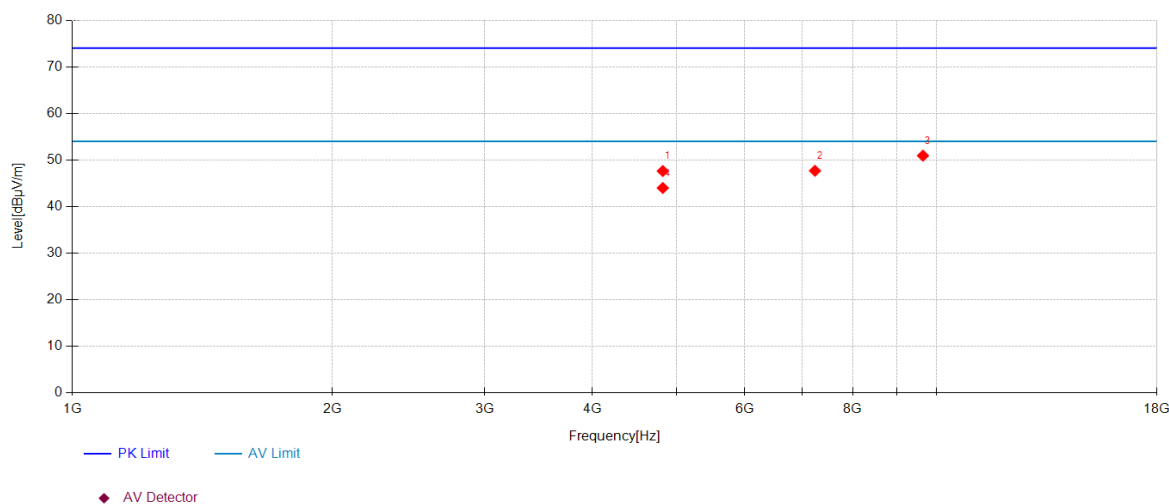
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Report No.: SUCR240200003406

Rev.: 01

Page: 85 of 139

802.11b_Channel 1



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4824	59.58	30.70	-42.66	47.62	74.00	26.38	Vertical
2	7236	49.73	36.38	-38.44	47.67	74.00	26.33	Vertical
3	9648	47.54	38.09	-34.71	50.92	74.00	23.08	Vertical
4	4824.5	55.95	30.70	-42.66	43.99	54.00	10.01	Vertical



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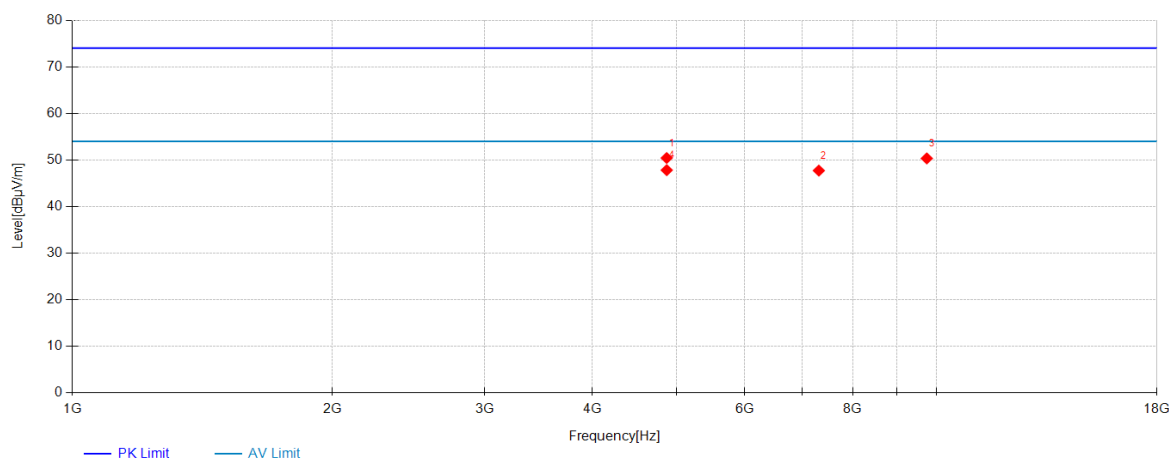
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Rev.: 01

Page: 86 of 139

802.11b_Channel 6



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4874	62.23	30.74	-42.55	50.42	74.00	23.58	Horizontal
2	7311	49.64	36.42	-38.34	47.72	74.00	26.28	Horizontal
3	9748	47.45	38.30	-35.42	50.33	74.00	23.67	Horizontal
4	4874.5	59.61	30.75	-42.55	47.81	54.00	6.19	Horizontal



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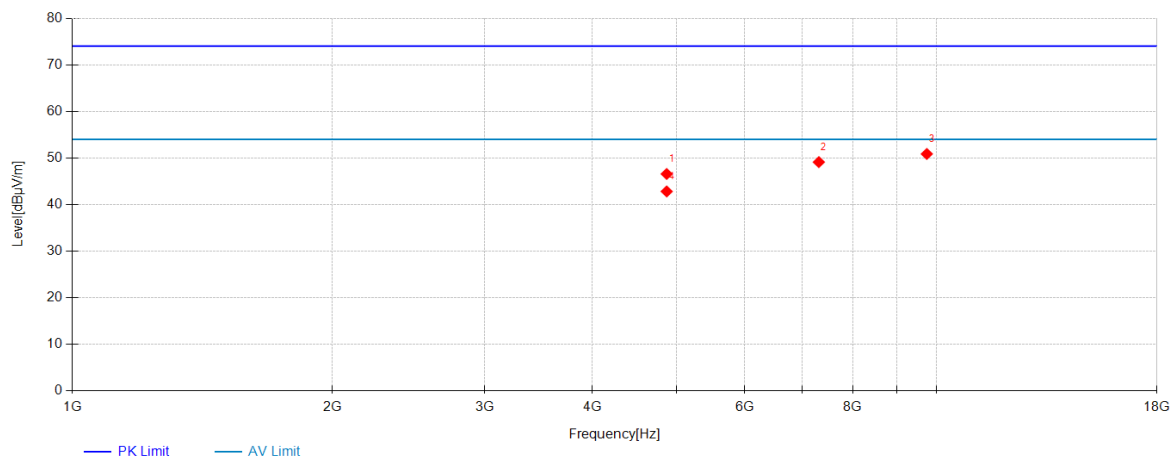
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Page: 87 of 139

802.11b_Channel 6



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4874	58.37	30.74	-42.55	46.56	74.00	27.44	Vertical
2	7311	51.03	36.42	-38.34	49.11	74.00	24.89	Vertical
3	9748	47.98	38.30	-35.42	50.86	74.00	23.14	Vertical
4	4874.5	54.61	30.75	-42.55	42.81	54.00	11.19	Vertical



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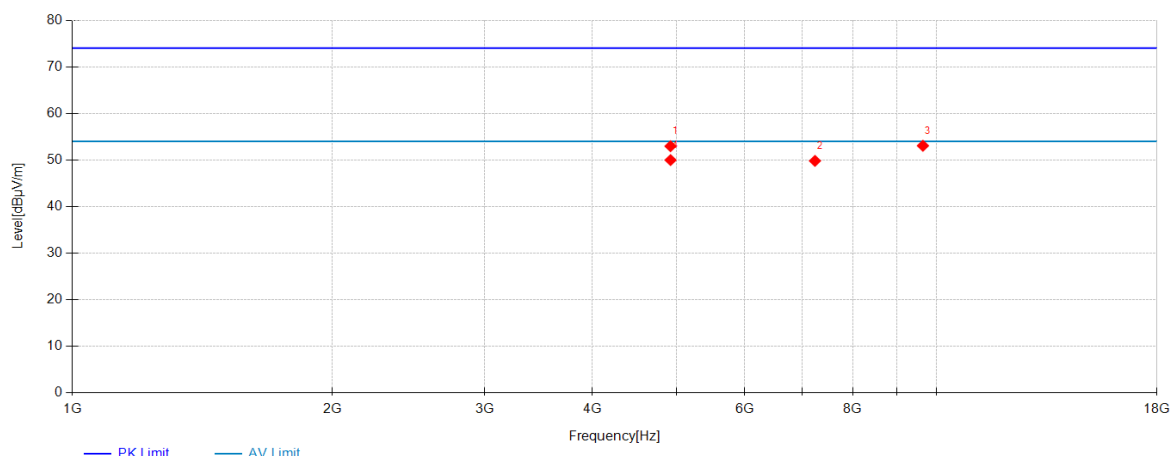
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Report No.: SUCR240200003406

Rev.: 01

Page: 88 of 139

802.11b_Channel 11



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4924	64.42	30.95	-42.42	52.95	74.00	21.05	Horizontal
2	7236	51.86	36.38	-38.44	49.80	74.00	24.20	Horizontal
3	9648	49.67	38.09	-34.71	53.05	74.00	20.95	Horizontal
4	4924.5	61.44	30.95	-42.42	49.97	54.00	4.03	Horizontal



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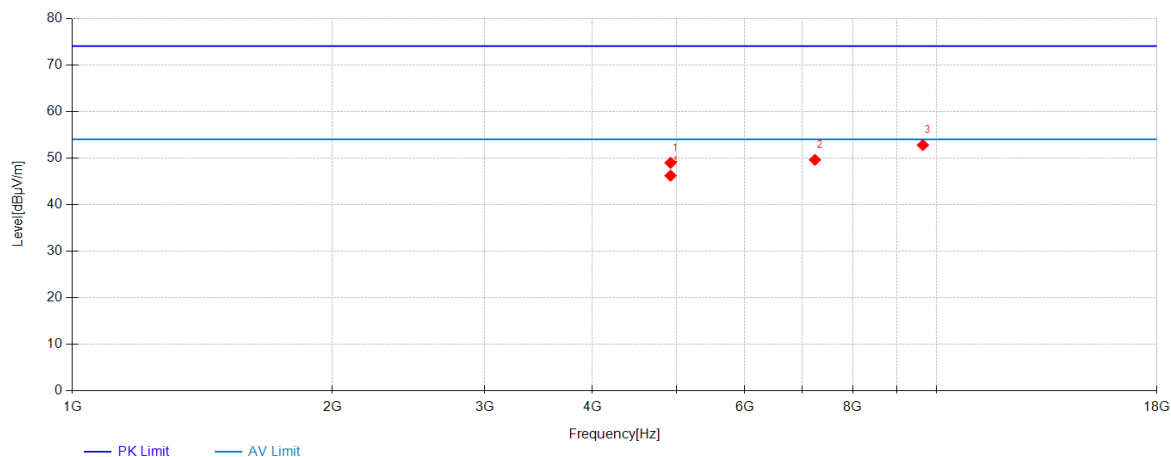
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Report No.: SUCR240200003406

Rev.: 01

Page: 89 of 139

802.11b_Channel 11



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4924	60.42	30.95	-42.42	48.95	74.00	25.05	Vertical
2	7236	51.66	36.38	-38.44	49.60	74.00	24.40	Vertical
3	9648	49.38	38.09	-34.71	52.76	74.00	21.24	Vertical
4	4924.5	57.67	30.95	-42.42	46.20	54.00	7.80	Vertical



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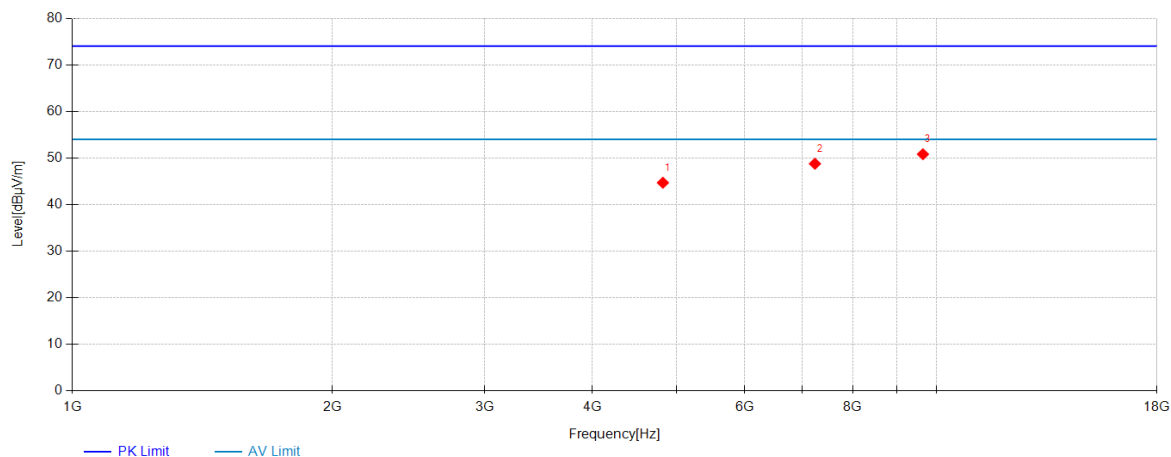
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Report No.: SUCR240200003406

Rev.: 01

Page: 90 of 139

802.11g_Channel 1



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4825.5	56.64	30.70	-42.66	44.68	74.00	29.32	Horizontal
2	7236	50.82	36.38	-38.44	48.76	74.00	25.24	Horizontal
3	9648	47.42	38.09	-34.71	50.80	74.00	23.20	Horizontal



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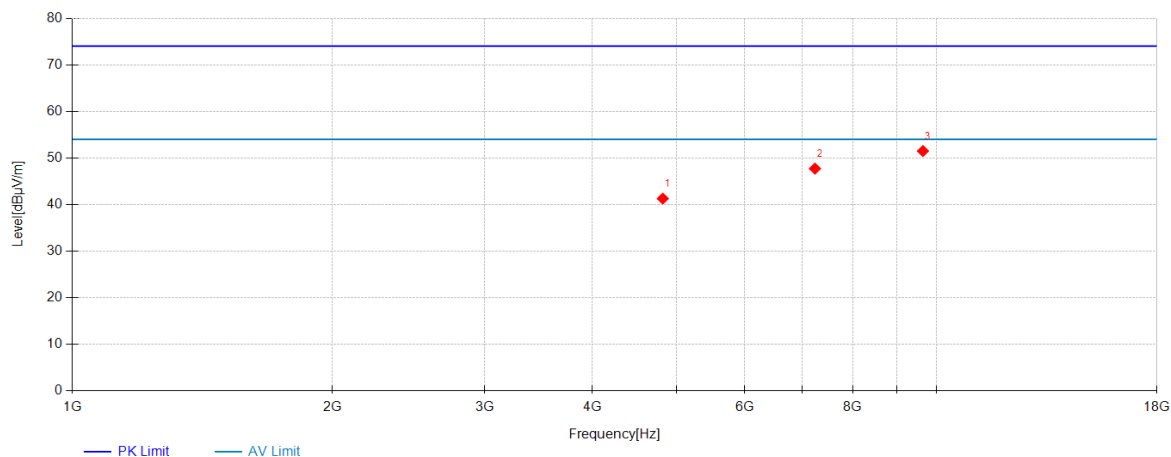
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Report No.: SUCR240200003406

Rev.: 01

Page: 91 of 139

802.11g_Channel 1



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4824	53.24	30.70	-42.66	41.28	74.00	32.72	Vertical
2	7236	49.77	36.38	-38.44	47.71	74.00	26.29	Vertical
3	9648	48.10	38.09	-34.71	51.48	74.00	22.52	Vertical



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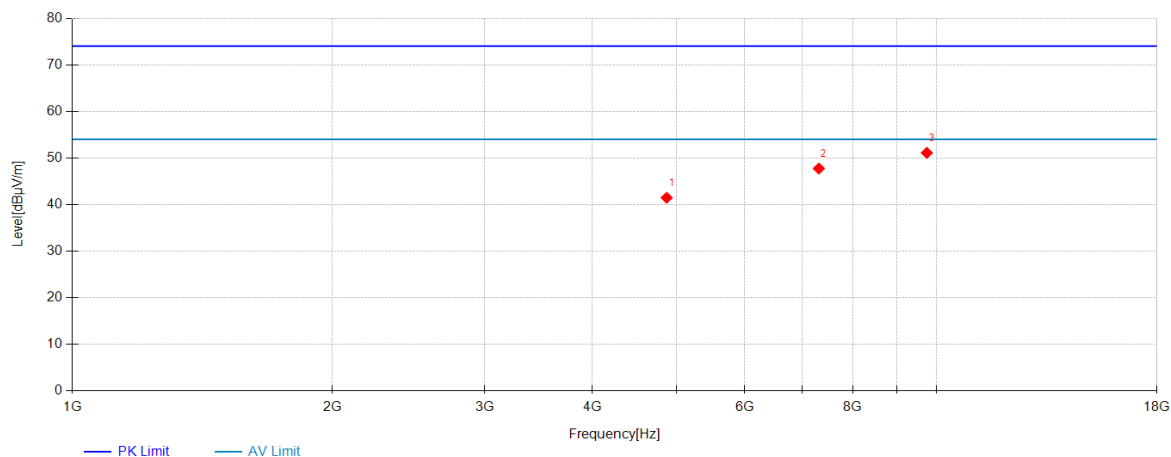
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Report No.: SUCR240200003406

Rev.: 01

Page: 92 of 139

802.11g_Channel 6



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4874	53.27	30.74	-42.55	41.46	74.00	32.54	Horizontal
2	7311	49.65	36.42	-38.34	47.73	74.00	26.27	Horizontal
3	9748	48.21	38.30	-35.42	51.09	74.00	22.91	Horizontal



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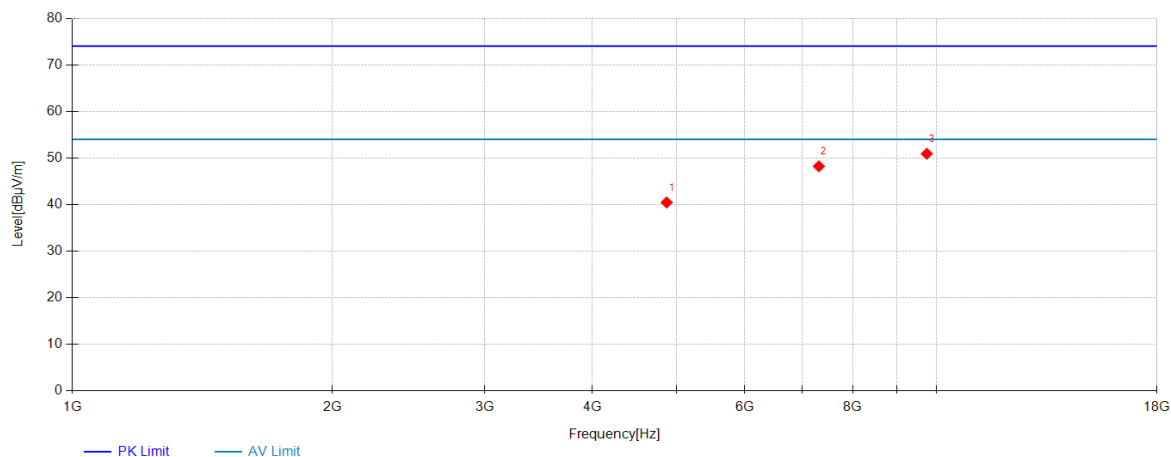
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Report No.: SUCR240200003406

Rev.: 01

Page: 93 of 139

802.11g_Channel 6



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4874	52.26	30.74	-42.55	40.45	74.00	33.55	Vertical
2	7311	50.13	36.42	-38.34	48.21	74.00	25.79	Vertical
3	9748	48.02	38.30	-35.42	50.90	74.00	23.10	Vertical



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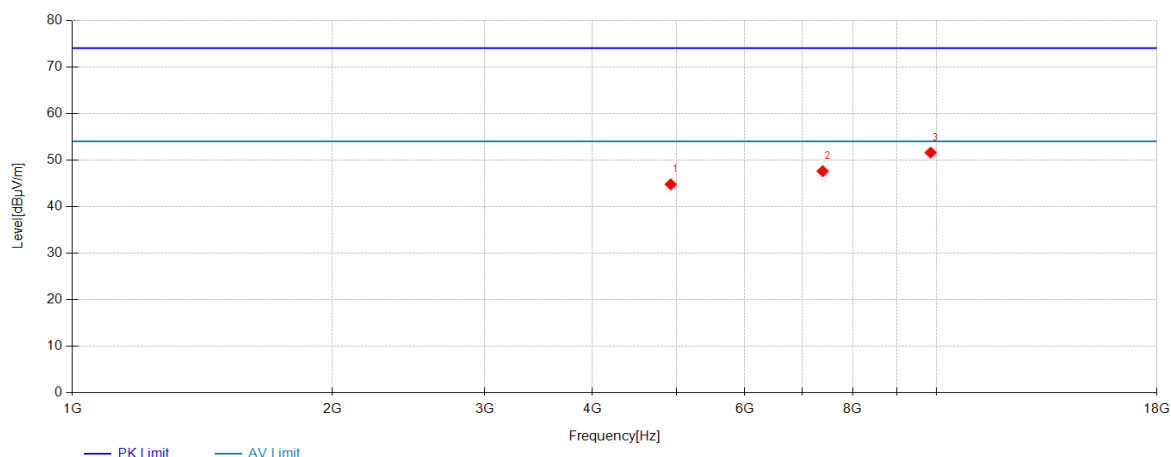
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Report No.: SUCR240200003406

Rev.: 01

Page: 94 of 139

802.11g_Channel 11



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4927	56.24	30.95	-42.43	44.76	74.00	29.24	Horizontal
2	7386	49.02	36.64	-38.07	47.59	74.00	26.41	Horizontal
3	9848	48.21	38.21	-34.84	51.58	74.00	22.42	Horizontal



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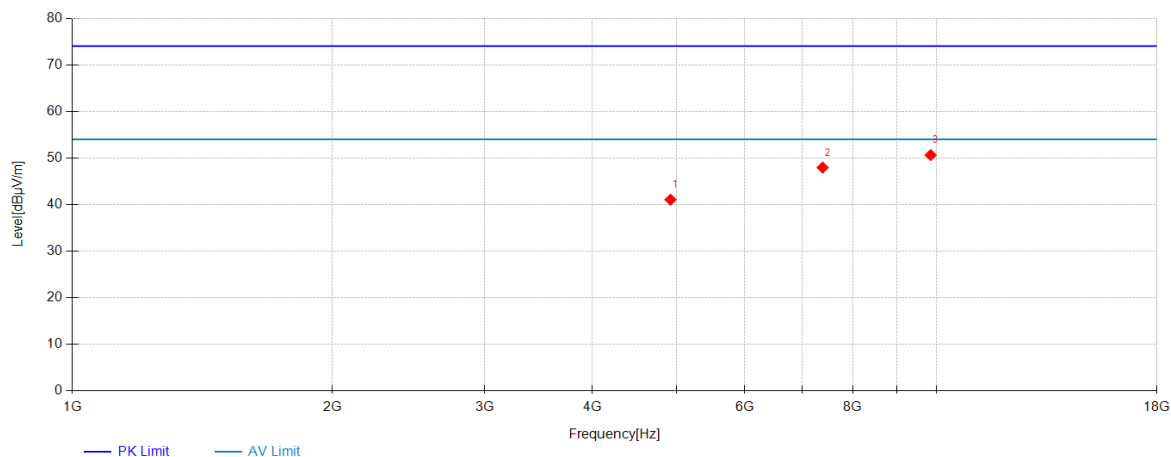
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Report No.: SUCR240200003406

Rev.: 01

Page: 95 of 139

802.11g_Channel 11



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4924	52.51	30.95	-42.42	41.04	74.00	32.96	Vertical
2	7386	49.36	36.64	-38.07	47.93	74.00	26.07	Vertical
3	9848	47.25	38.21	-34.84	50.62	74.00	23.38	Vertical



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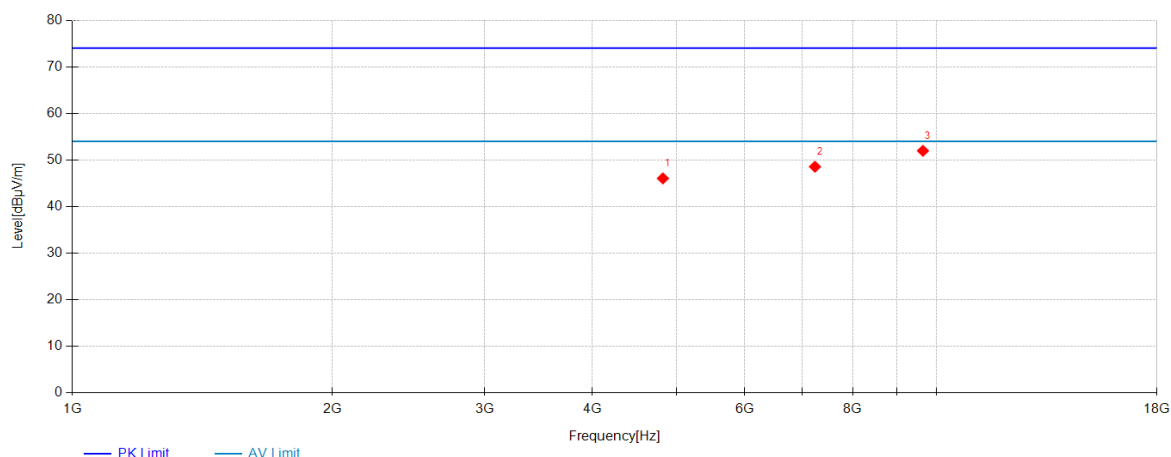
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Rev.: 01

Page: 96 of 139

802.11n20_Channel 1



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4825.5	58.00	30.70	-42.66	46.04	74.00	27.96	Horizontal
2	7236	50.60	36.38	-38.44	48.54	74.00	25.46	Horizontal
3	9648	48.58	38.09	-34.71	51.96	74.00	22.04	Horizontal



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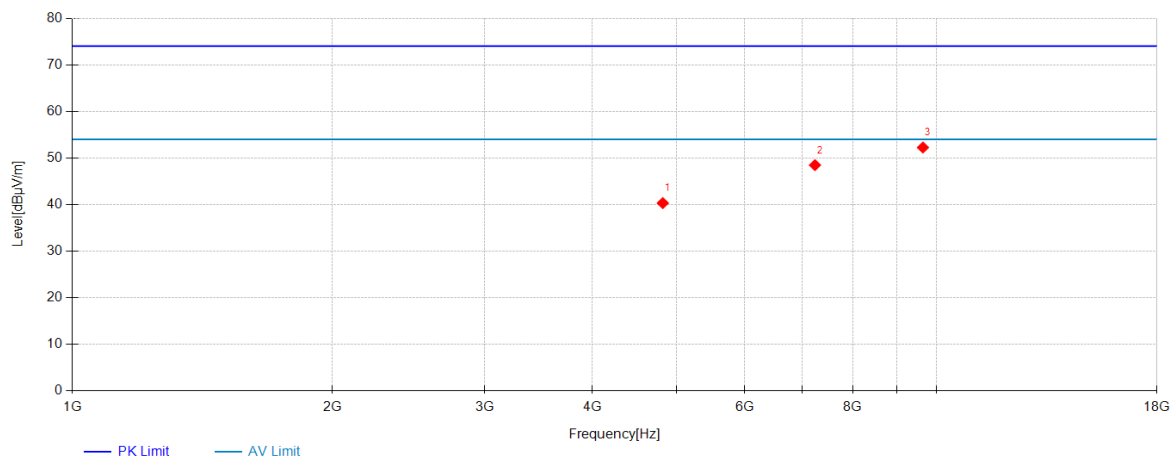
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Rev.: 01

Page: 97 of 139

802.11n20_Channel 1



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4824	52.27	30.70	-42.66	40.31	74.00	33.69	Vertical
2	7236	50.52	36.38	-38.44	48.46	74.00	25.54	Vertical
3	9648	48.86	38.09	-34.71	52.24	74.00	21.76	Vertical



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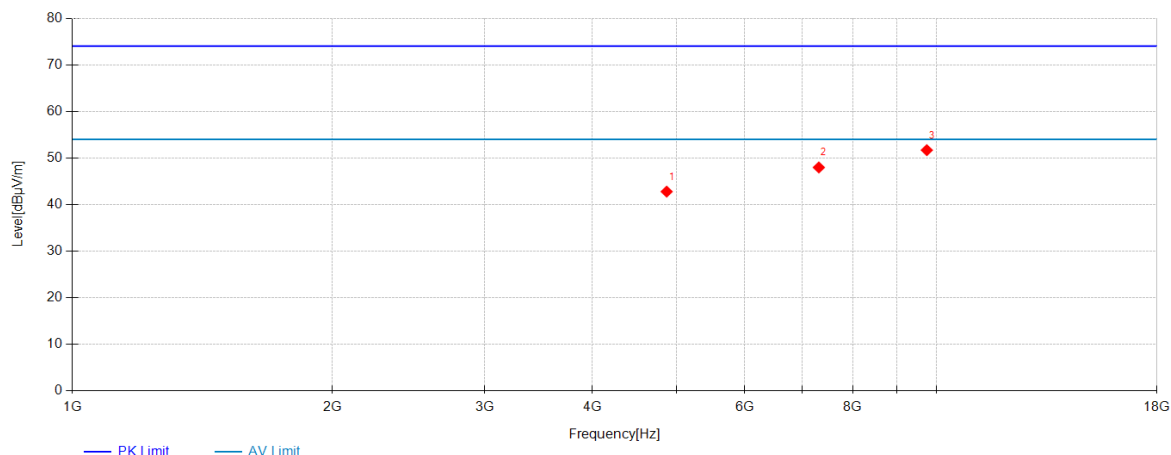
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Report No.: SUCR240200003406

Rev.: 01

Page: 98 of 139

802.11n20_Channel 6



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4874	54.58	30.74	-42.55	42.77	74.00	31.23	Horizontal
2	7311	49.88	36.42	-38.34	47.96	74.00	26.04	Horizontal
3	9748	48.79	38.30	-35.42	51.67	74.00	22.33	Horizontal



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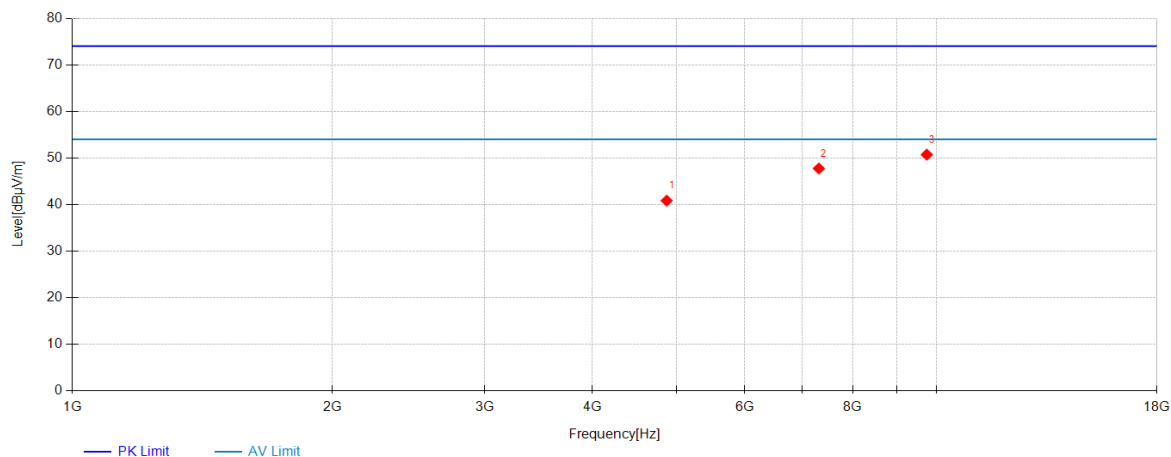
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Report No.: SUCR240200003406

Rev.: 01

Page: 99 of 139

802.11n20_Channel 6



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4874	52.64	30.74	-42.55	40.83	74.00	33.17	Vertical
2	7311	49.66	36.42	-38.34	47.74	74.00	26.26	Vertical
3	9748	47.83	38.30	-35.42	50.71	74.00	23.29	Vertical



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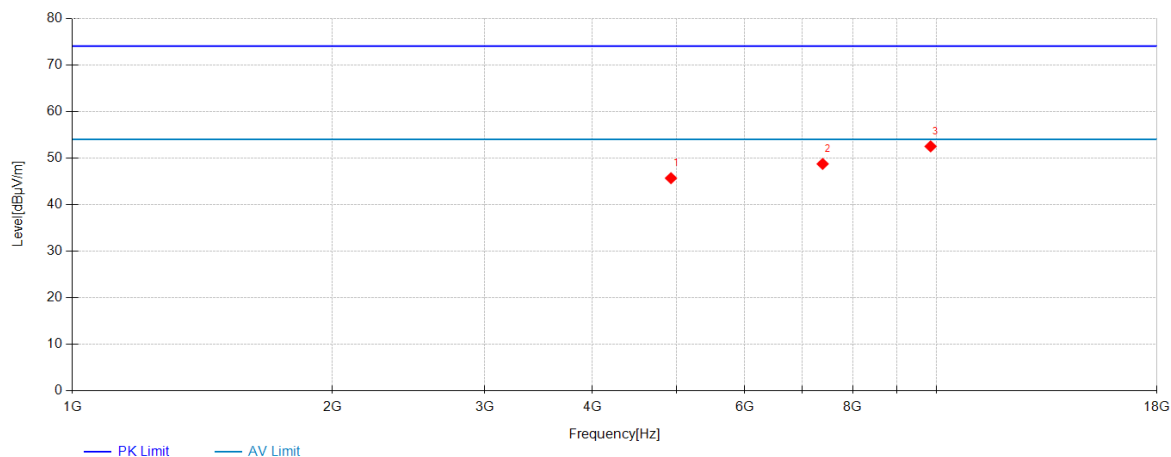
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Report No.: SUCR240200003406

Rev.: 01

Page: 100 of 139

802.11n20_Channel 11



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4930	57.13	30.96	-42.43	45.66	74.00	28.34	Horizontal
2	7386	50.15	36.64	-38.07	48.72	74.00	25.28	Horizontal
3	9848	49.11	38.21	-34.84	52.48	74.00	21.52	Horizontal



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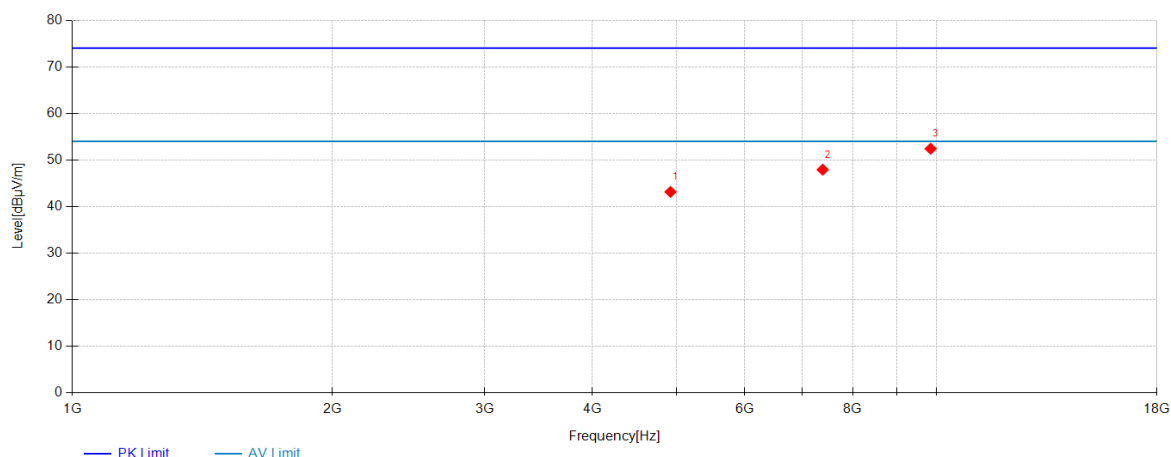
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Report No.: SUCR240200003406

Rev.: 01

Page: 101 of 139

802.11n20_Channel 11



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4924	54.61	30.95	-42.42	43.14	74.00	30.86	Vertical
2	7386	49.34	36.64	-38.07	47.91	74.00	26.09	Vertical
3	9848	49.04	38.21	-34.84	52.41	74.00	21.59	Vertical



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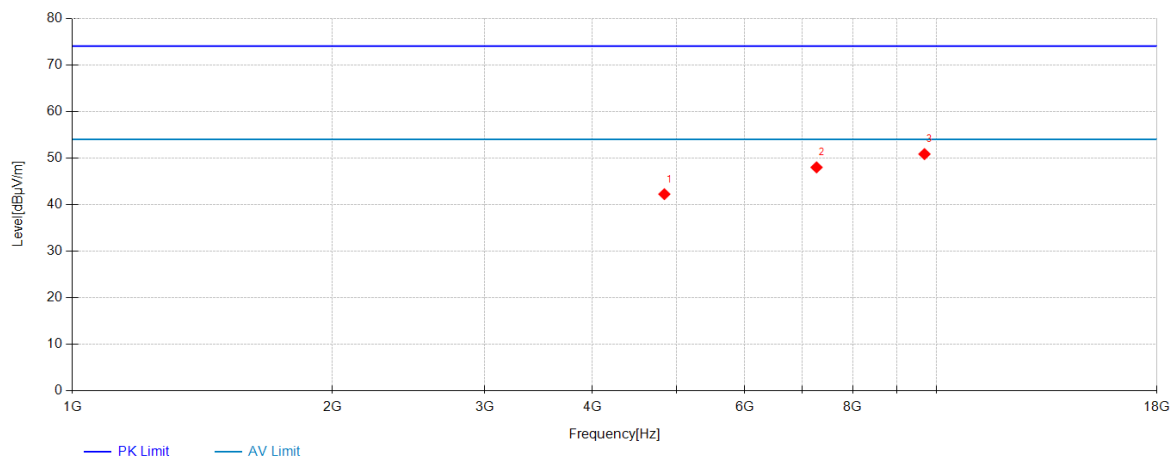
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Report No.: SUCR240200003406

Rev.: 01

Page: 102 of 139

802.11n40_Channel 3



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4844	54.29	30.62	-42.68	42.23	74.00	31.77	Horizontal
2	7266	50.13	36.33	-38.48	47.98	74.00	26.02	Horizontal
3	9688	47.84	38.18	-35.19	50.83	74.00	23.17	Horizontal



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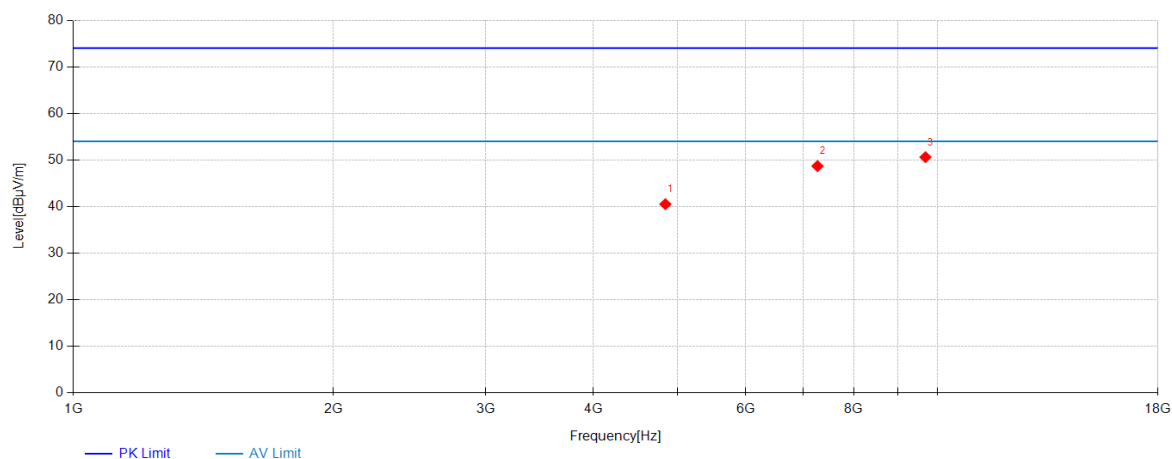
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Report No.: SUCR240200003406

Rev.: 01

Page: 103 of 139

802.11n40_Channel 3



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4844	52.57	30.62	-42.68	40.51	74.00	33.49	Vertical
2	7266	50.83	36.33	-38.48	48.68	74.00	25.32	Vertical
3	9688	47.61	38.18	-35.19	50.60	74.00	23.40	Vertical



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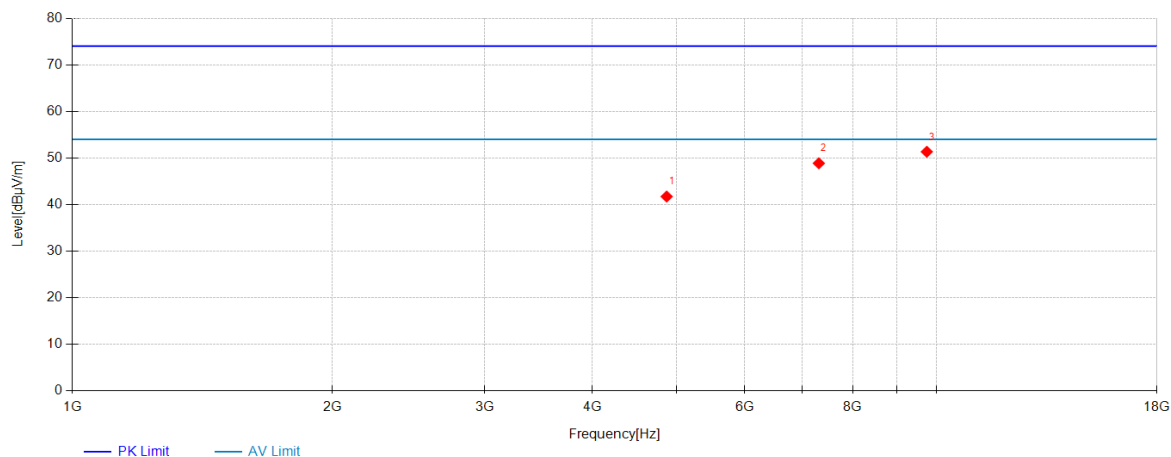
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Report No.: SUCR240200003406

Rev.: 01

Page: 104 of 139

802.11n40_Channel 6



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4874	53.53	30.74	-42.55	41.72	74.00	32.28	Horizontal
2	7311	50.77	36.42	-38.34	48.85	74.00	25.15	Horizontal
3	9748	48.45	38.30	-35.42	51.33	74.00	22.67	Horizontal



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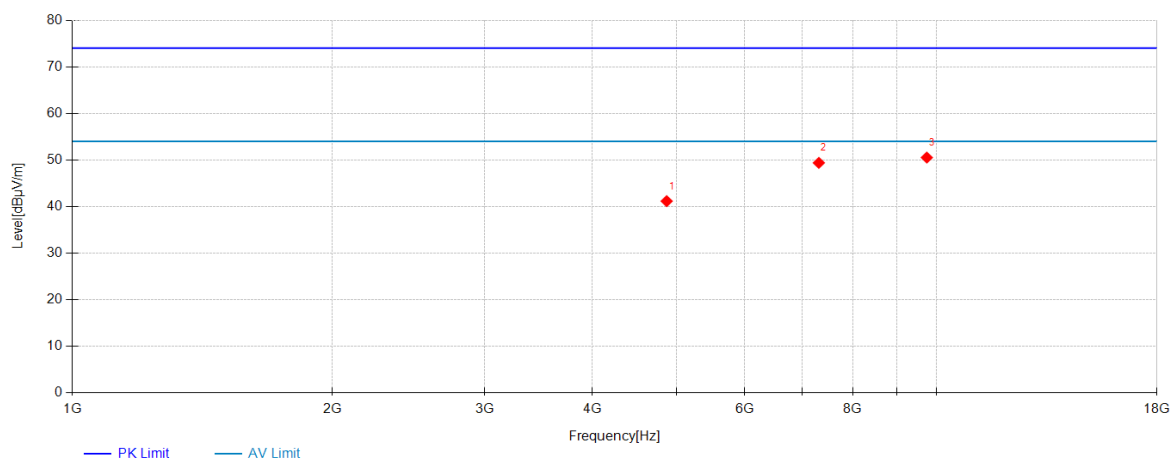
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Report No.: SUCR240200003406

Rev.: 01

Page: 105 of 139

802.11n40_Channel 6



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4874	52.97	30.74	-42.55	41.16	74.00	32.84	Vertical
2	7311	51.30	36.42	-38.34	49.38	74.00	24.62	Vertical
3	9748	47.63	38.30	-35.42	50.51	74.00	23.49	Vertical



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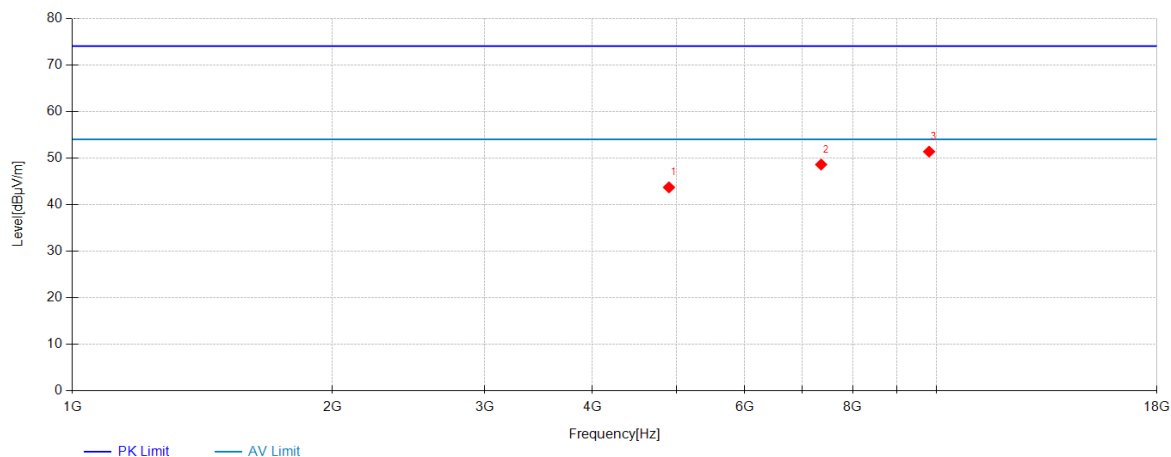
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Report No.: SUCR240200003406

Rev.: 01

Page: 106 of 139

802.11n40_Channel 9



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4904	55.19	30.91	-42.41	43.69	74.00	30.31	Horizontal
2	7356	50.26	36.52	-38.19	48.59	74.00	25.41	Horizontal
3	9808	47.85	38.45	-34.94	51.36	74.00	22.64	Horizontal



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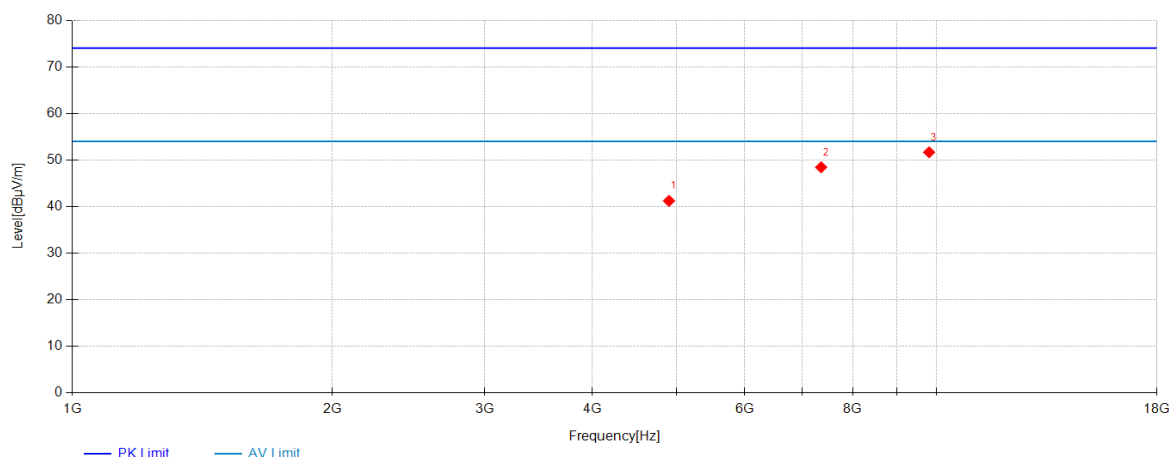
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Report No.: SUCR240200003406

Rev.: 01

Page: 107 of 139

802.11n40_Channel 9



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4904	52.71	30.91	-42.41	41.21	74.00	32.79	Vertical
2	7356	50.10	36.52	-38.19	48.43	74.00	25.57	Vertical
3	9808	48.14	38.45	-34.94	51.65	74.00	22.35	Vertical

Remark:

- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

$$\text{Level} = \text{Reading}(\text{dB}\mu\text{V}) + \text{AF}(\text{dB}/\text{m}) + \text{Factor}(\text{dB})$$

$$\text{AF} = \text{Antenna Factor}(\text{dB}/\text{m})$$

$$\text{Factor} = \text{Cable Factor}(\text{dB}) - \text{Preamplifier gain}(\text{dB})$$

$$\text{Margin} = \text{Limit}(\text{dB}\mu\text{V}/\text{m}) - \text{Level}(\text{dB}\mu\text{V}/\text{m})$$
- All channels have been tested, but only the worst case data displayed in this report.
- Both peak and average measured complies with the limit line, so test result is "PASS"



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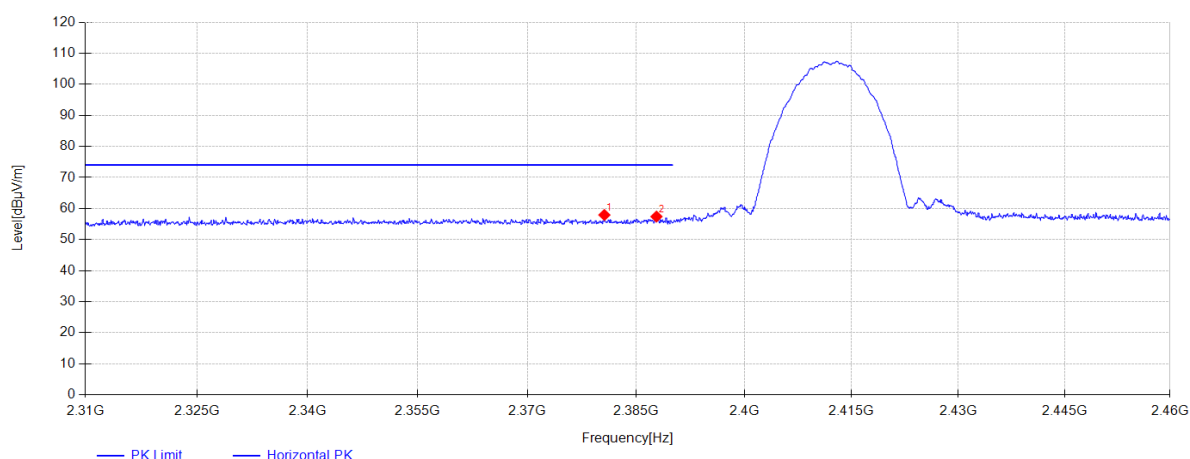
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Rev.: 01

Page: 108 of 139

Restricted bands around fundamental frequency

802.11b_Channel 1



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2380.6103	47.75	27.48	-17.29	57.94	74.00	16.06	Horizontal
2	2387.8139	47.23	27.45	-17.26	57.42	74.00	16.58	Horizontal



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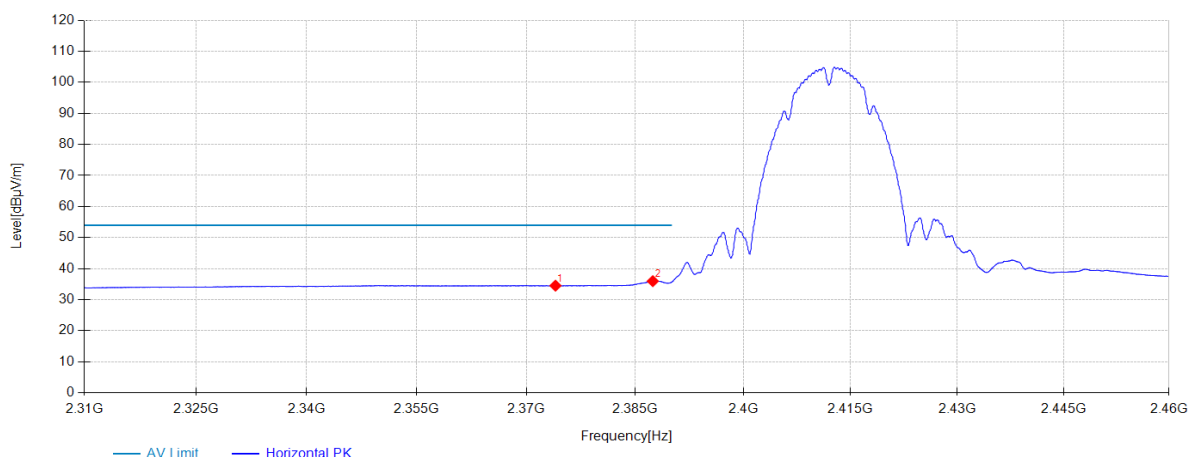
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Report No.: SUCR240200003406

Rev.: 01

Page: 109 of 139

802.11b_Channel 1



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2374.007	24.35	27.50	-17.32	34.53	54.00	19.47	Horizontal
2	2387.4387	25.79	27.45	-17.26	35.98	54.00	18.02	Horizontal



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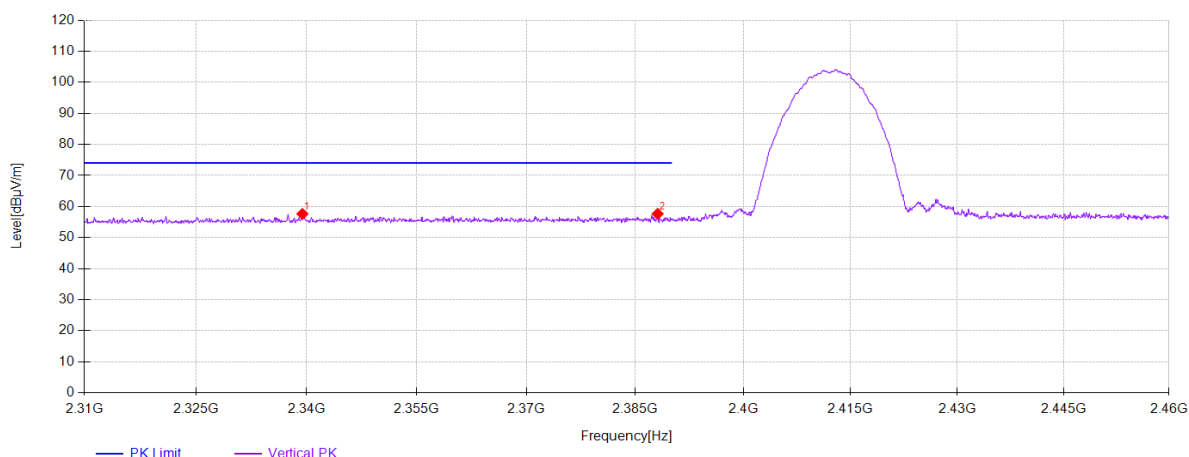
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Report No.: SUCR240200003406

Rev.: 01

Page: 110 of 139

802.11b_Channel 1



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2339.4147	47.59	27.49	-17.44	57.64	74.00	16.36	Vertical
2	2388.1141	47.47	27.45	-17.26	57.66	74.00	16.34	Vertical



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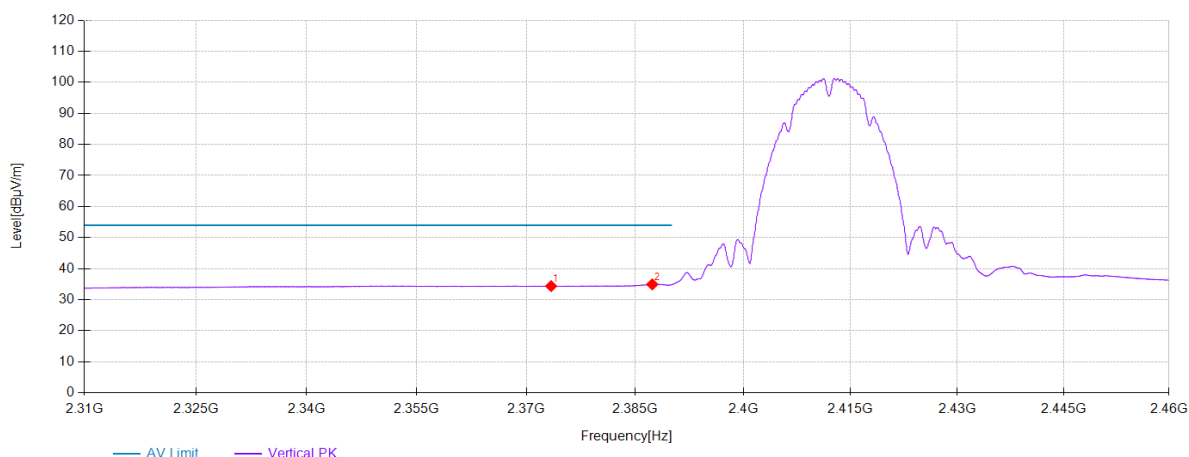
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Report No.: SUCR240200003406

Rev.: 01

Page: 111 of 139

802.11b_Channel 1



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2373.4067	24.20	27.51	-17.32	34.39	54.00	19.61	Vertical
2	2387.3637	24.75	27.45	-17.26	34.94	54.00	19.06	Vertical



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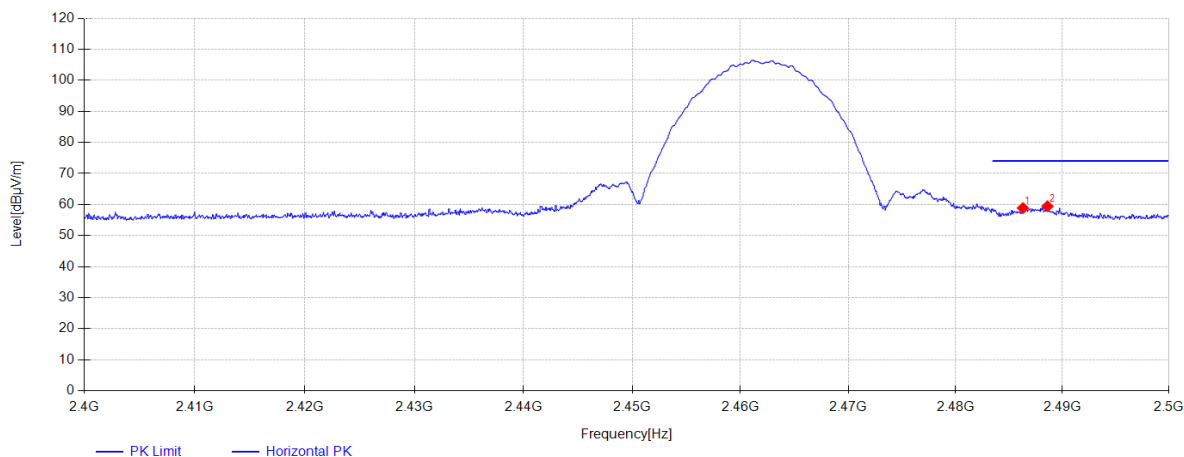
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Report No.: SUCR240200003406

Rev.: 01

Page: 112 of 139

802.11b_Channel 11



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2486.2931	48.27	27.75	-17.16	58.86	74.00	15.14	Horizontal
2	2488.5943	48.89	27.75	-17.18	59.46	74.00	14.54	Horizontal



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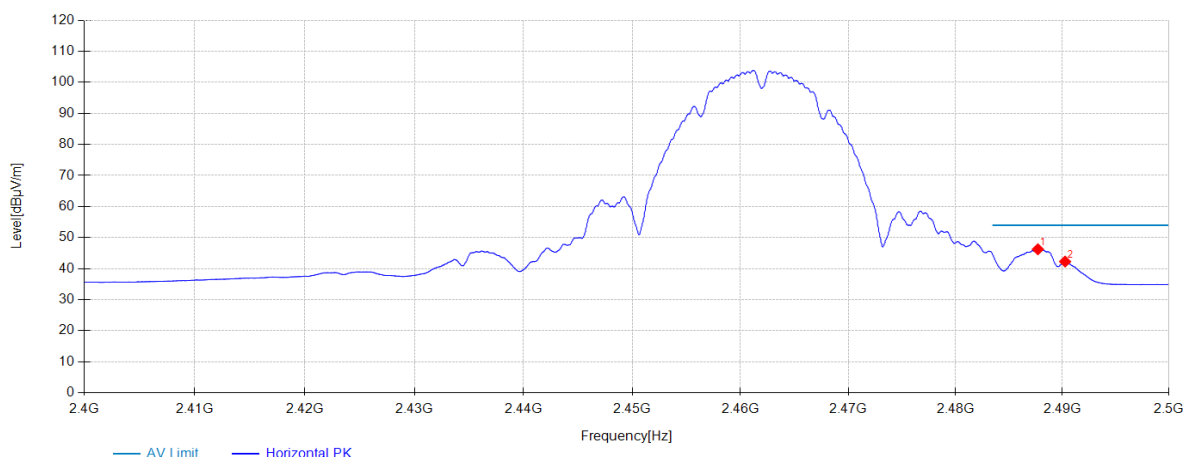
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Report No.: SUCR240200003406

Rev.: 01

Page: 113 of 139

802.11b_Channel 11



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2487.6938	35.66	27.75	-17.17	46.24	54.00	7.76	Horizontal
2	2490.2451	31.72	27.76	-17.19	42.29	54.00	11.71	Horizontal



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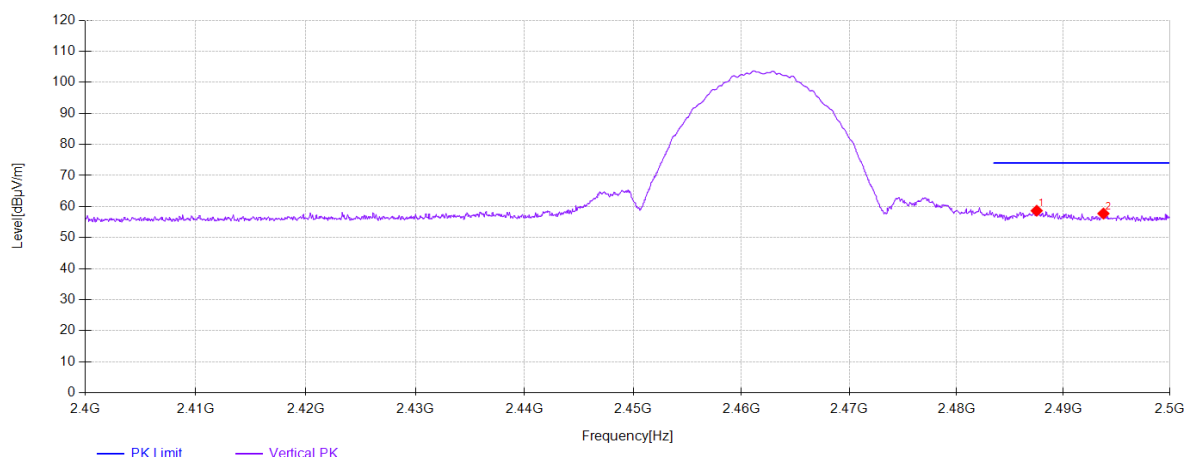
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Report No.: SUCR240200003406

Rev.: 01

Page: 114 of 139

802.11b_Channel 11



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2487.4937	48.08	27.75	-17.17	58.66	74.00	15.34	Vertical
2	2493.7469	47.18	27.77	-17.21	57.74	74.00	16.26	Vertical



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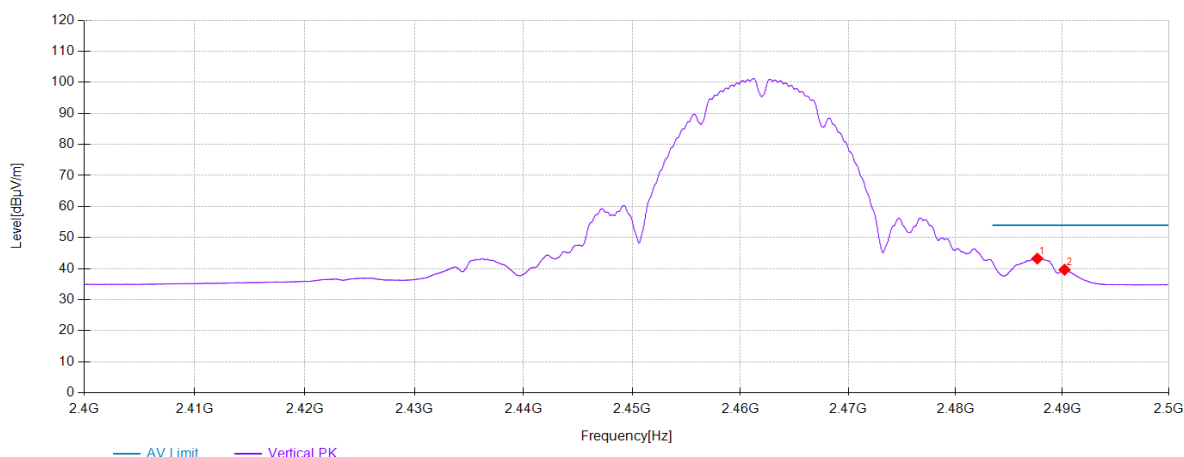
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Rev.: 01

Page: 115 of 139

802.11b_Channel 11



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2487.6438	32.66	27.75	-17.17	43.24	54.00	10.76	Vertical
2	2490.1951	29.08	27.76	-17.19	39.65	54.00	14.35	Vertical



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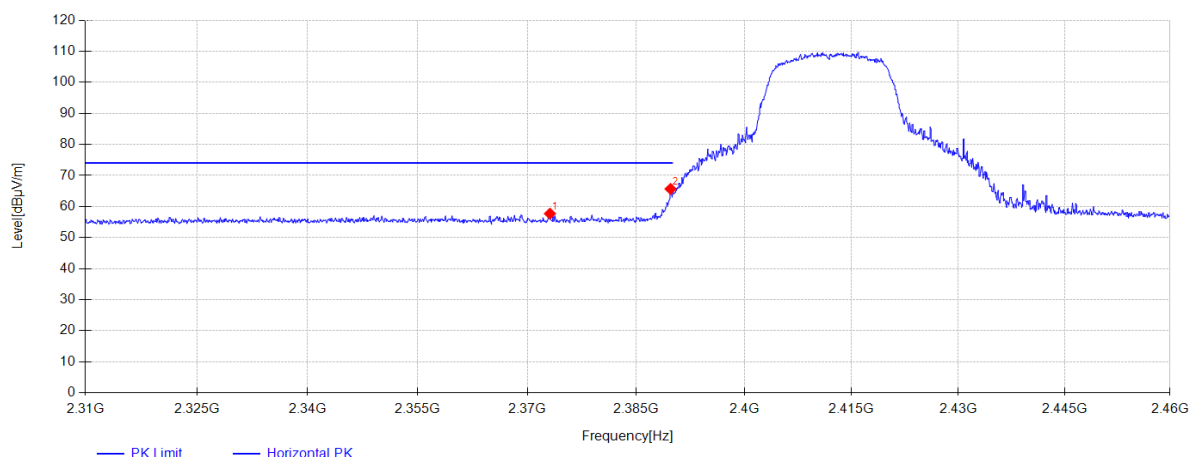
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Report No.: SUCR240200003406

Rev.: 01

Page: 116 of 139

802.11g_Channel 1



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2373.1066	47.53	27.51	-17.32	57.72	74.00	16.28	Horizontal
2	2389.7649	55.48	27.44	-17.25	65.67	74.00	8.33	Horizontal



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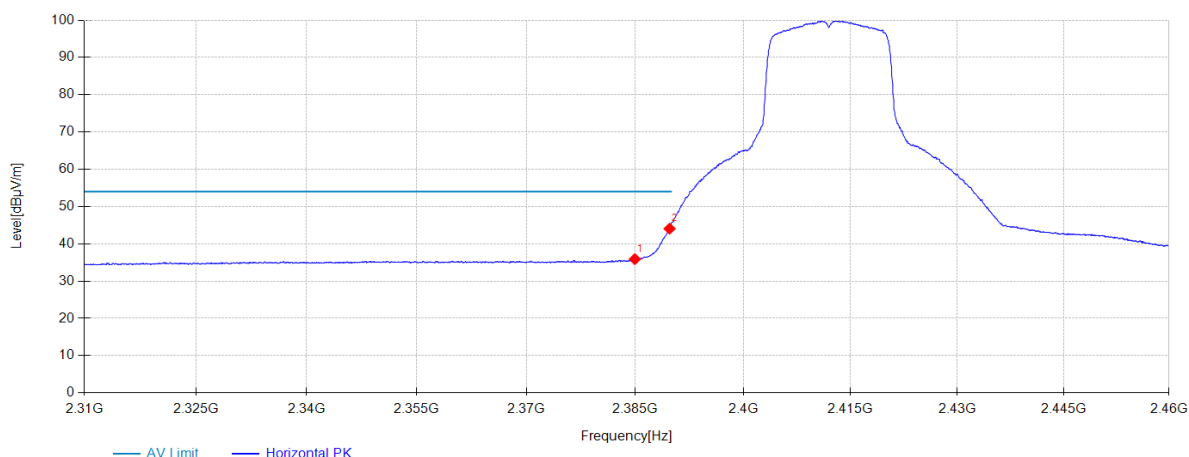
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Report No.: SUCR240200003406

Rev.: 01

Page: 117 of 139

802.11g_Channel 1



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2384.9625	25.70	27.46	-17.27	35.89	54.00	18.11	Horizontal
2	2389.7649	33.87	27.44	-17.25	44.06	54.00	9.94	Horizontal



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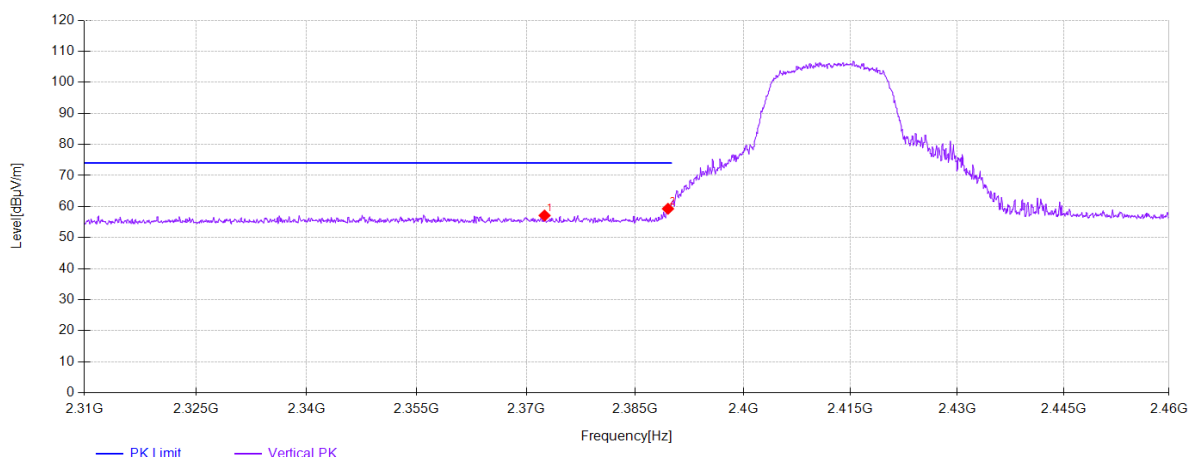
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Report No.: SUCR240200003406

Rev.: 01

Page: 118 of 139

802.11g_Channel 1



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2372.5063	46.93	27.51	-17.33	57.11	74.00	16.89	Vertical
2	2389.5398	49.09	27.44	-17.25	59.28	74.00	14.72	Vertical



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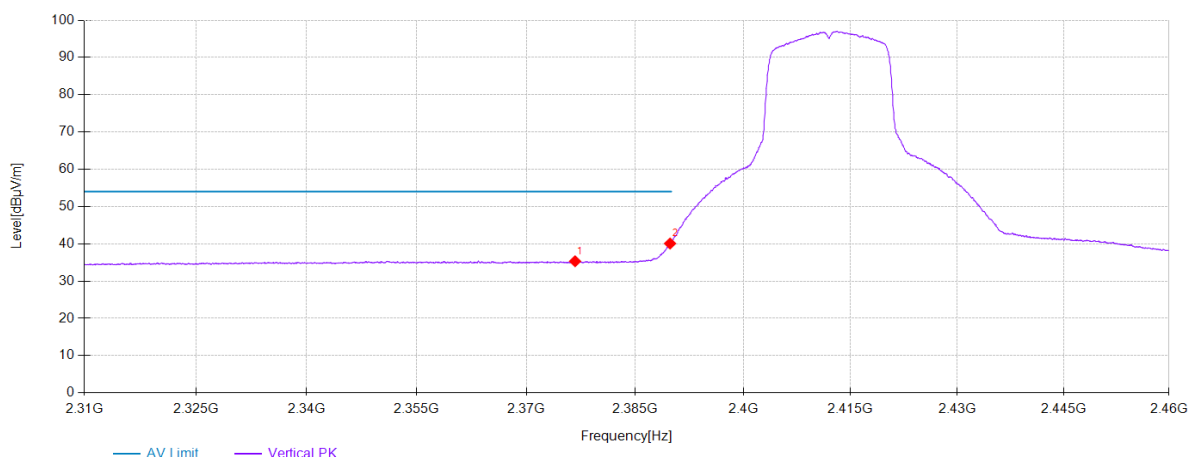
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Report No.: SUCR240200003406

Rev.: 01

Page: 119 of 139

802.11g_Channel 1



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2376.7084	25.14	27.49	-17.31	35.32	54.00	18.68	Vertical
2	2389.8399	29.89	27.44	-17.25	40.08	54.00	13.92	Vertical



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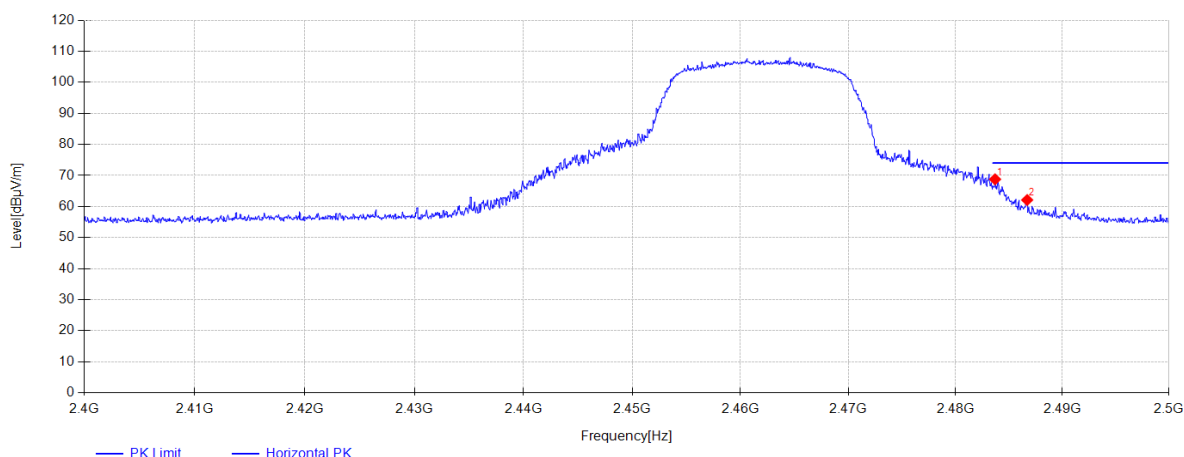
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Report No.: SUCR240200003406

Rev.: 01

Page: 120 of 139

802.11g_Channel 11



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.6918	58.20	27.73	-17.15	68.78	74.00	5.22	Horizontal
2	2486.6933	51.53	27.75	-17.16	62.12	74.00	11.88	Horizontal



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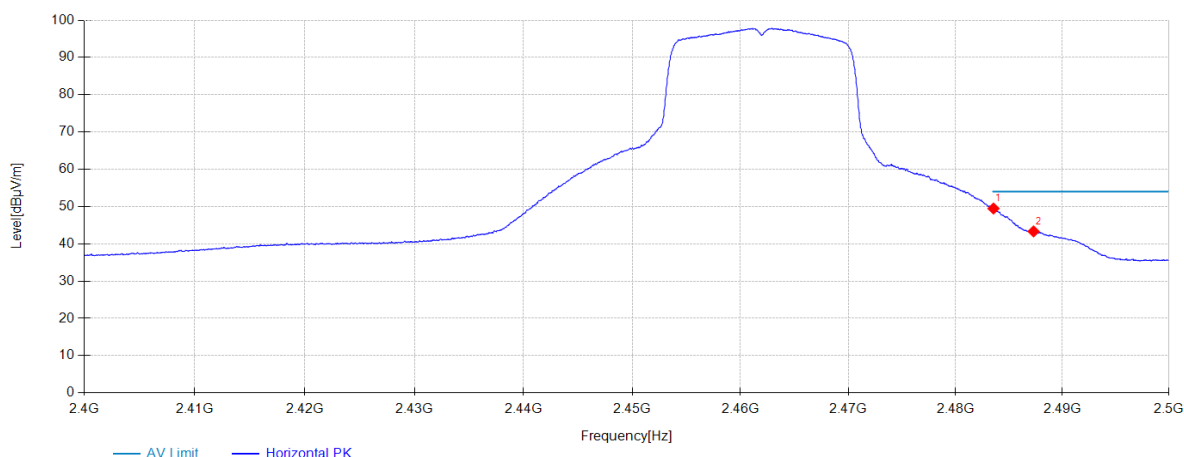
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Report No.: SUCR240200003406

Rev.: 01

Page: 121 of 139

802.11g_Channel 11



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.5418	38.88	27.73	-17.14	49.47	54.00	4.53	Horizontal
2	2487.2936	32.75	27.75	-17.17	43.33	54.00	10.67	Horizontal



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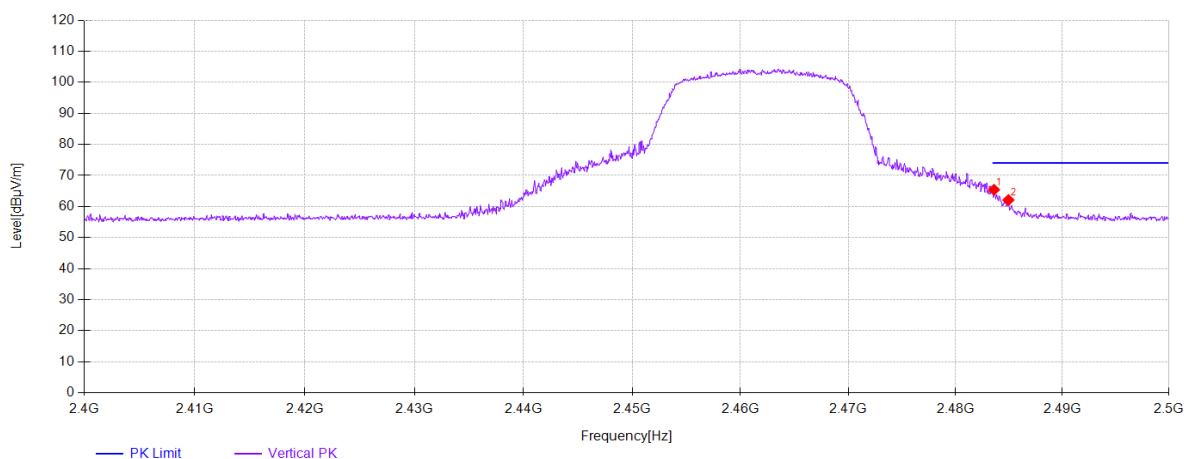
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Report No.: SUCR240200003406

Rev.: 01

Page: 122 of 139

802.11g_Channel 11



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.5918	54.82	27.73	-17.14	65.41	74.00	8.59	Vertical
2	2484.9425	51.53	27.74	-17.15	62.12	74.00	11.88	Vertical



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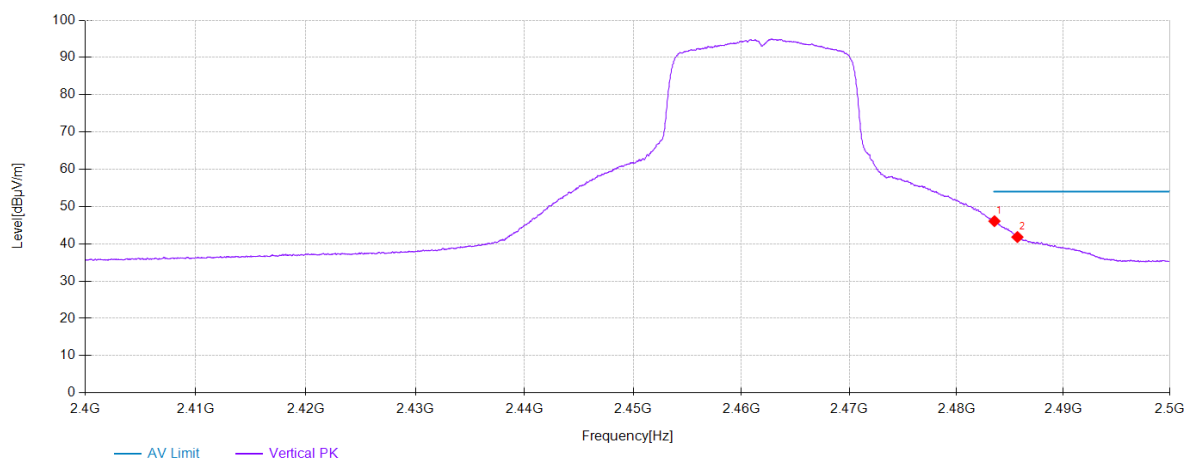
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Report No.: SUCR240200003406

Rev.: 01

Page: 123 of 139

802.11g_Channel 11



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.5418	35.49	27.73	-17.14	46.08	54.00	7.92	Vertical
2	2485.6928	31.23	27.74	-17.16	41.81	54.00	12.19	Vertical



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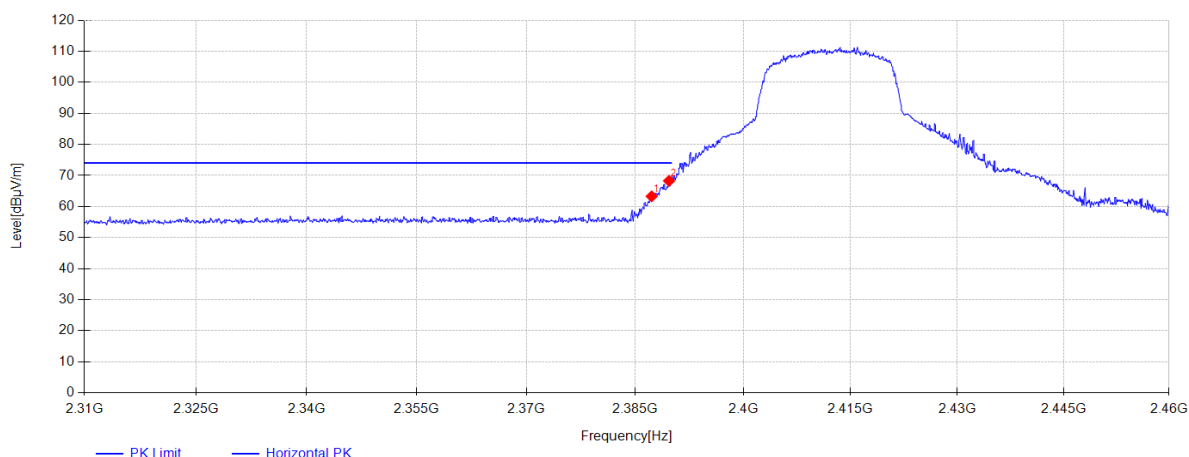
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Report No.: SUCR240200003406

Rev.: 01

Page: 124 of 139

802.11n20_Channel 1



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2387.2886	53.10	27.45	-17.26	63.29	74.00	10.71	Horizontal
2	2389.6898	58.08	27.44	-17.25	68.27	74.00	5.73	Horizontal



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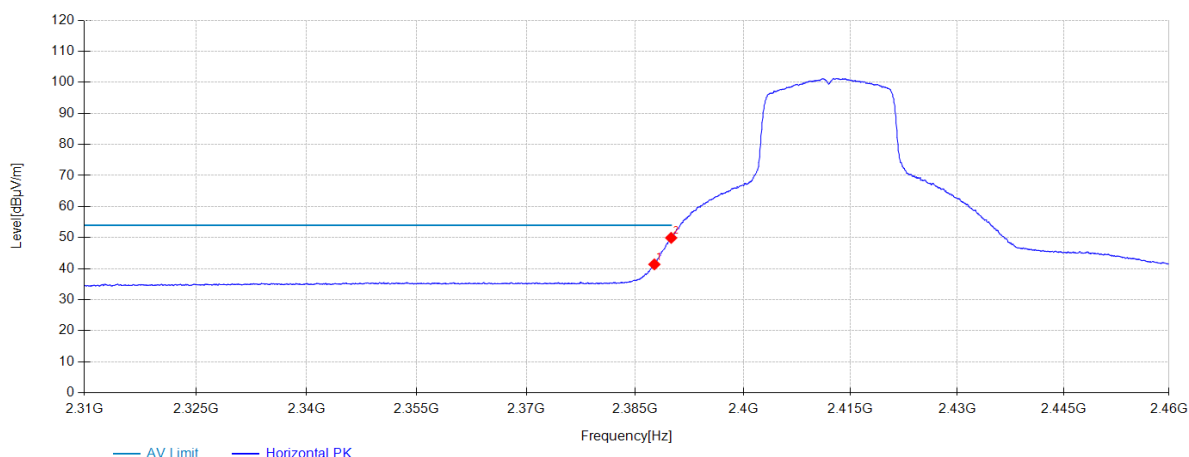
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Report No.: SUCR240200003406

Rev.: 01

Page: 125 of 139

802.11n20_Channel 1



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2387.6638	31.19	27.45	-17.26	41.38	54.00	12.62	Horizontal
2	2389.99	39.72	27.44	-17.25	49.91	54.00	4.09	Horizontal



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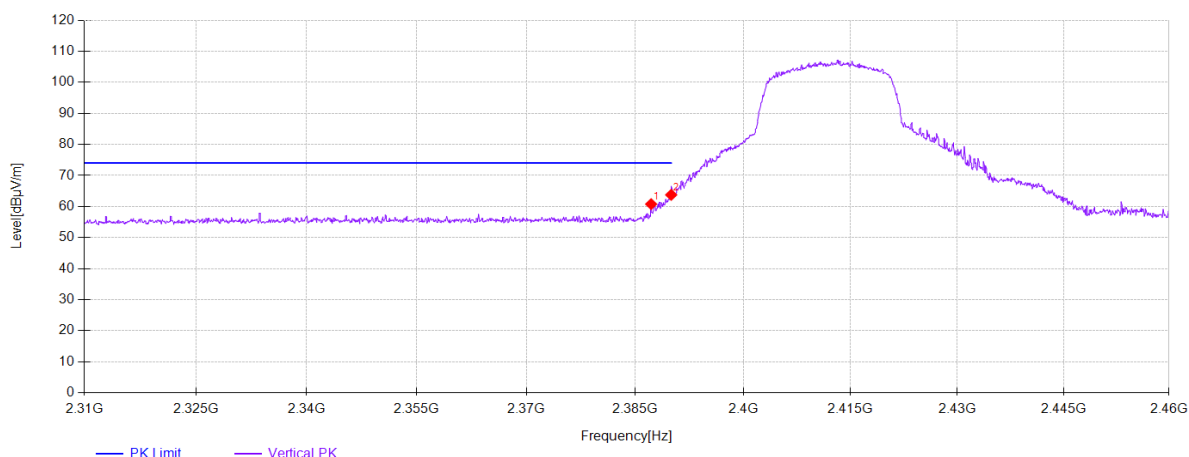
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Report No.: SUCR240200003406

Rev.: 01

Page: 126 of 139

802.11n20_Channel 1



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2387.2136	50.59	27.45	-17.26	60.78	74.00	13.22	Vertical
2	2389.99	53.57	27.44	-17.25	63.76	74.00	10.24	Vertical



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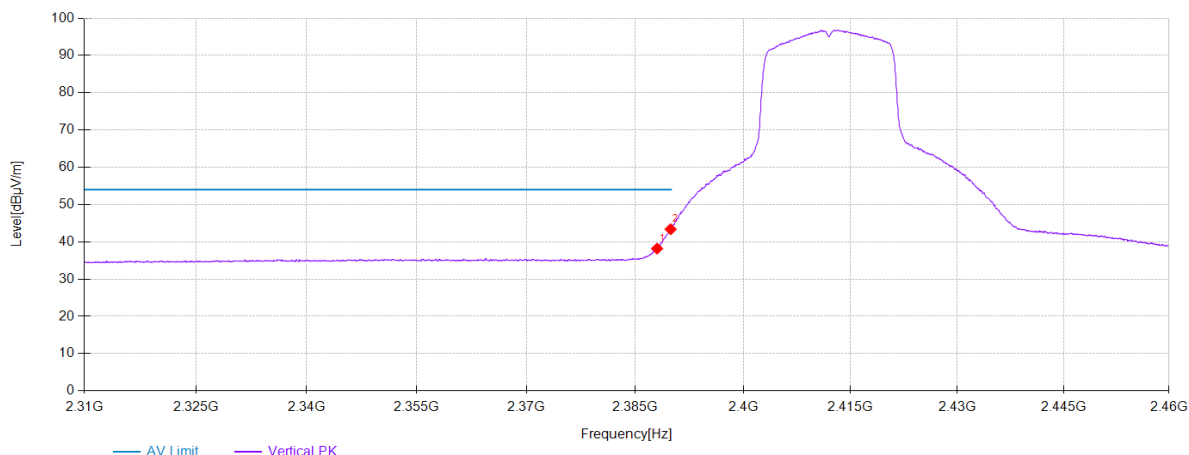
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Report No.: SUCR240200003406

Rev.: 01

Page: 127 of 139

802.11n20_Channel 1



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2388.039	28.00	27.45	-17.26	38.19	54.00	15.81	Vertical
2	2389.915	33.19	27.44	-17.25	43.38	54.00	10.62	Vertical



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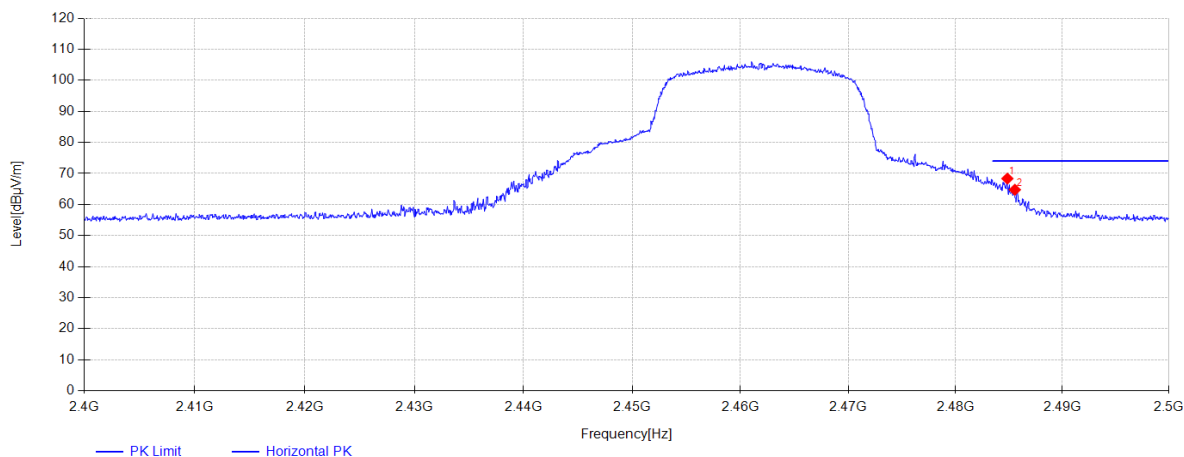
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Report No.: SUCR240200003406

Rev.: 01

Page: 128 of 139

802.11n20_Channel 11



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2484.8424	57.76	27.74	-17.15	68.35	74.00	5.65	Horizontal
2	2485.5428	54.19	27.74	-17.16	64.77	74.00	9.23	Horizontal



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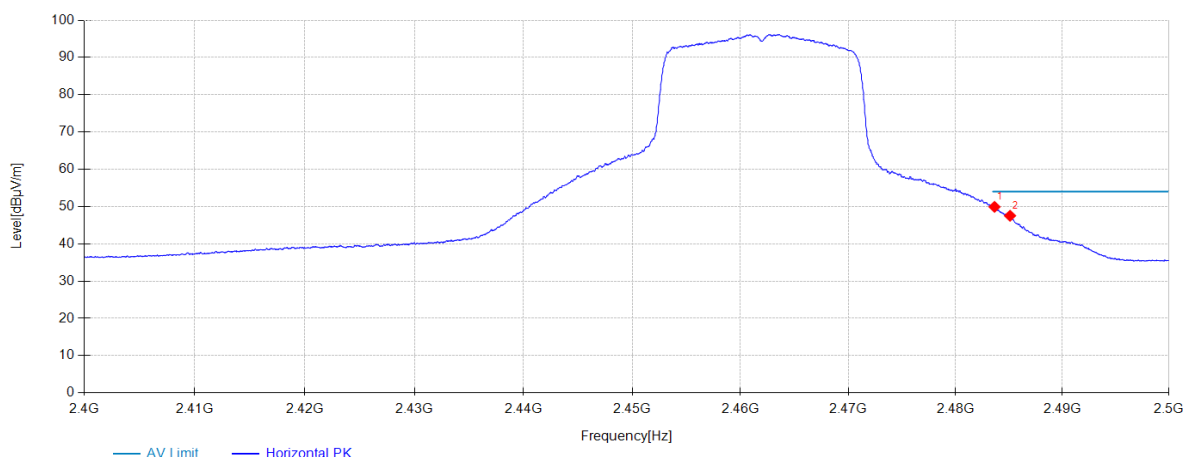
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Report No.: SUCR240200003406

Rev.: 01

Page: 129 of 139

802.11n20_Channel 11



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.6418	39.34	27.73	-17.15	49.92	54.00	4.08	Horizontal
2	2485.0925	36.94	27.74	-17.15	47.53	54.00	6.47	Horizontal



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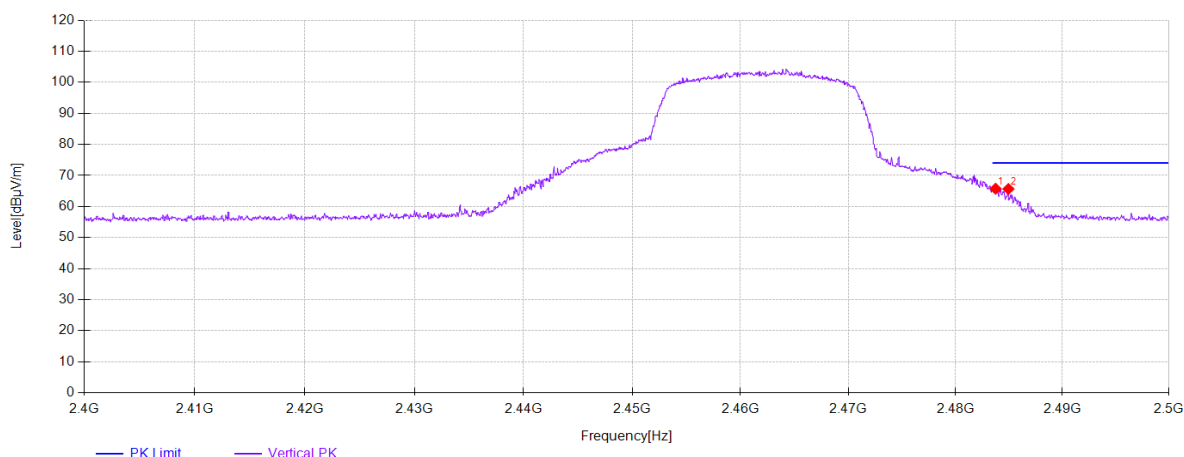
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Report No.: SUCR240200003406

Rev.: 01

Page: 130 of 139

802.11n20_Channel 11



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.7419	55.15	27.73	-17.15	65.73	74.00	8.27	Vertical
2	2484.9425	55.07	27.74	-17.15	65.66	74.00	8.34	Vertical



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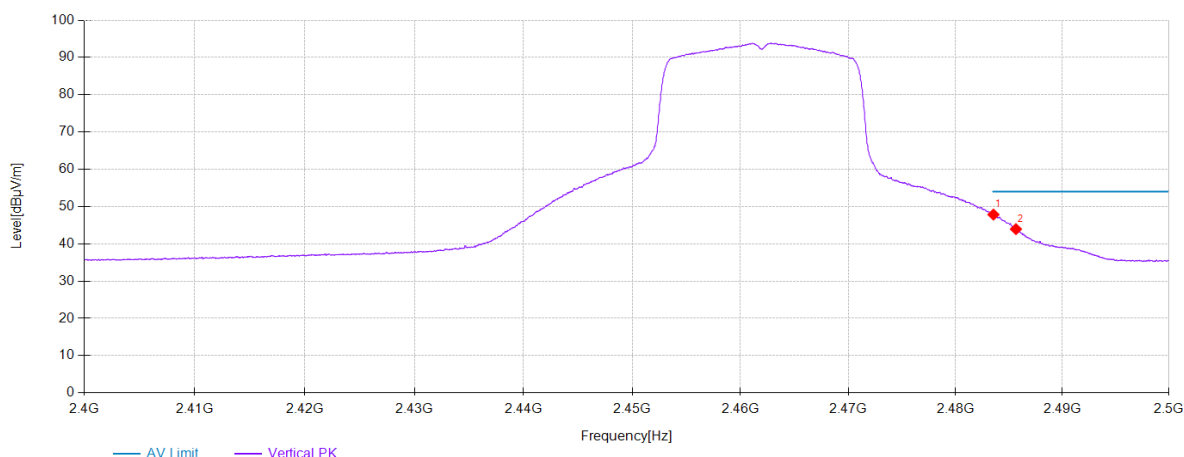
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Report No.: SUCR240200003406

Rev.: 01

Page: 131 of 139

802.11n20_Channel 11



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.5418	37.25	27.73	-17.14	47.84	54.00	6.16	Vertical
2	2485.6428	33.36	27.74	-17.16	43.94	54.00	10.06	Vertical



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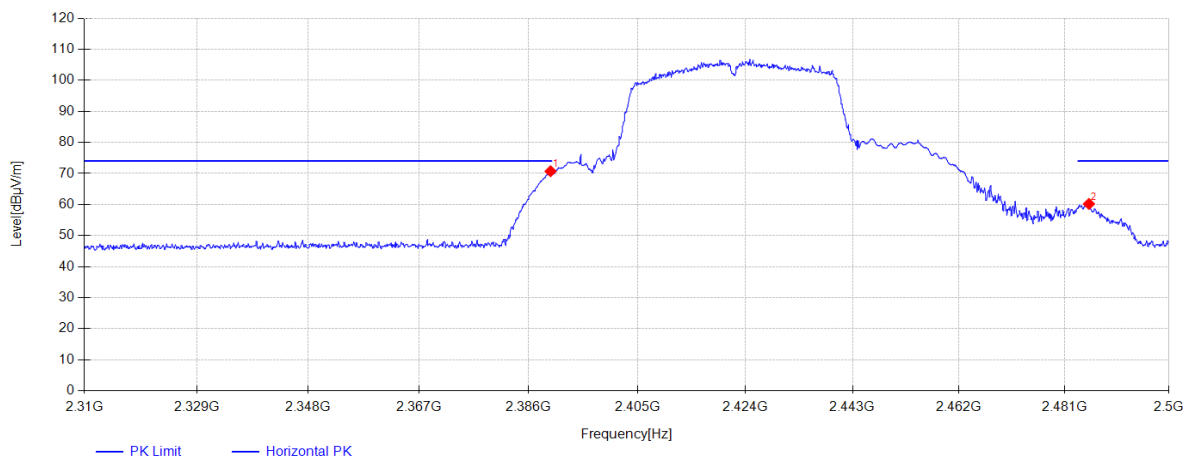
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Report No.: SUCR240200003406

Rev.: 01

Page: 132 of 139

802.11n40_Channel 3



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2389.8399	60.53	27.44	-17.25	70.72	74.00	3.28	Horizontal
2	2485.4577	49.62	27.74	-17.16	60.20	74.00	13.80	Horizontal



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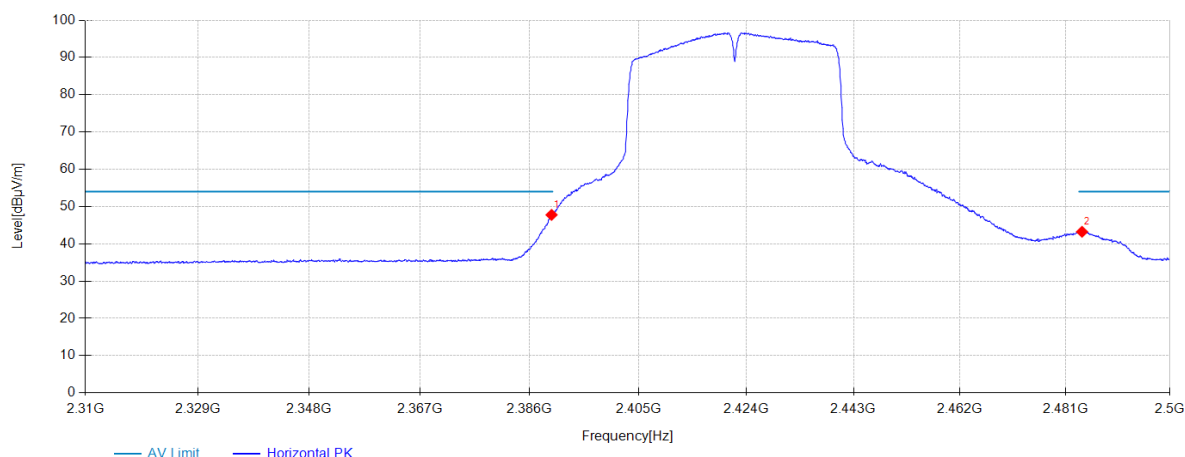
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Report No.: SUCR240200003406

Rev.: 01

Page: 133 of 139

802.11n40_Channel 3



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2389.8399	37.57	27.44	-17.25	47.76	54.00	6.24	Horizontal
2	2484.032	32.64	27.74	-17.15	43.23	54.00	10.77	Horizontal



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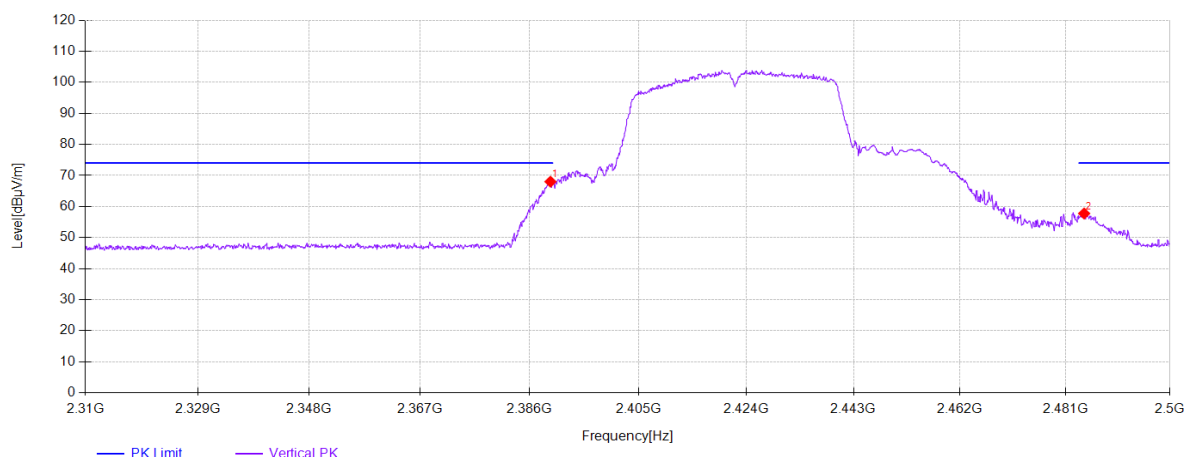
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Report No.: SUCR240200003406

Rev.: 01

Page: 134 of 139

802.11n40_Channel 3



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2389.6498	57.81	27.44	-17.25	68.00	74.00	6.00	Vertical
2	2484.4122	47.17	27.74	-17.15	57.76	74.00	16.24	Vertical



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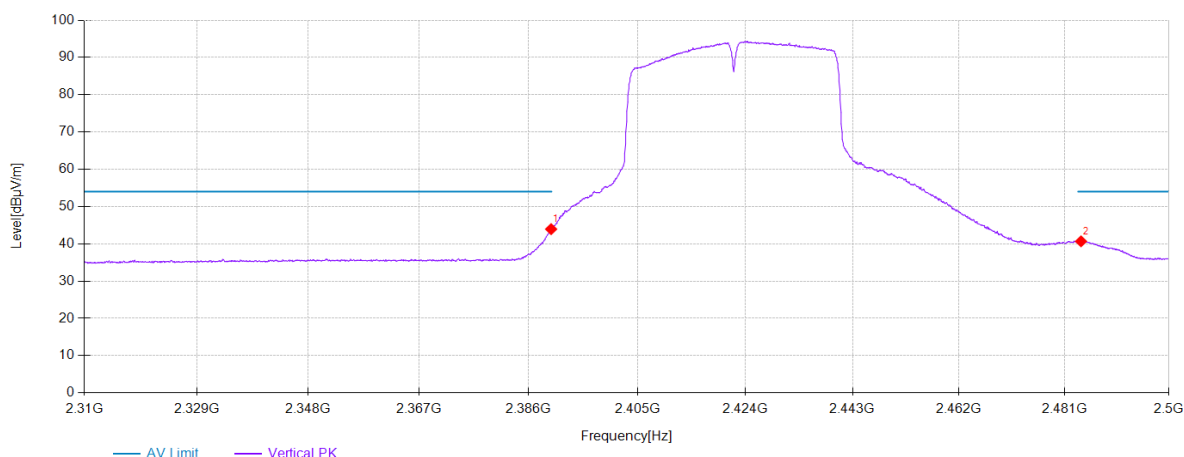
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Report No.: SUCR240200003406

Rev.: 01

Page: 135 of 139

802.11n40_Channel 3



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2389.935	33.75	27.44	-17.25	43.94	54.00	10.06	Vertical
2	2484.032	30.08	27.74	-17.15	40.67	54.00	13.33	Vertical



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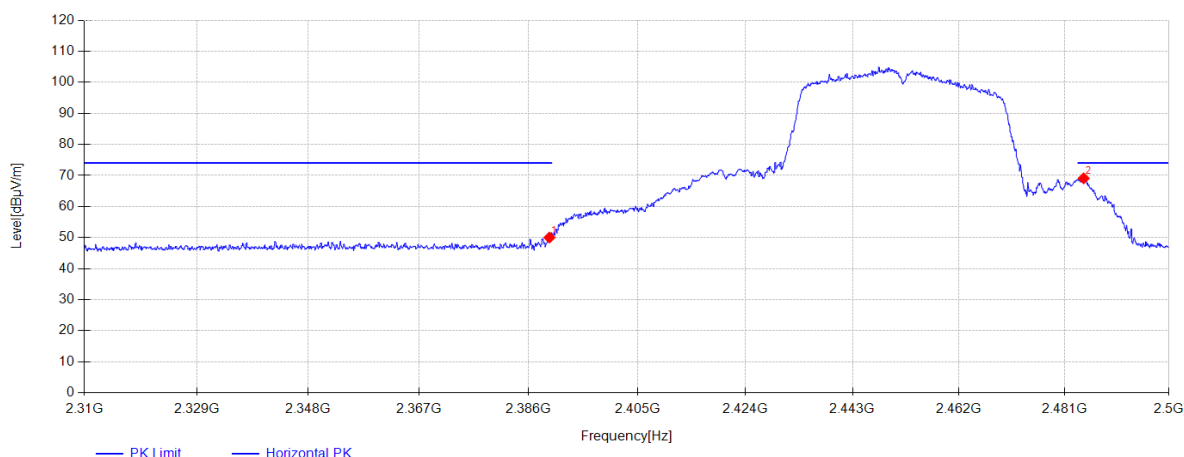
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Report No.: SUCR240200003406

Rev.: 01

Page: 136 of 139

802.11n40_Channel 9



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2389.6498	39.83	27.44	-17.25	50.02	74.00	23.98	Horizontal
2	2484.5073	58.49	27.74	-17.15	69.08	74.00	4.92	Horizontal



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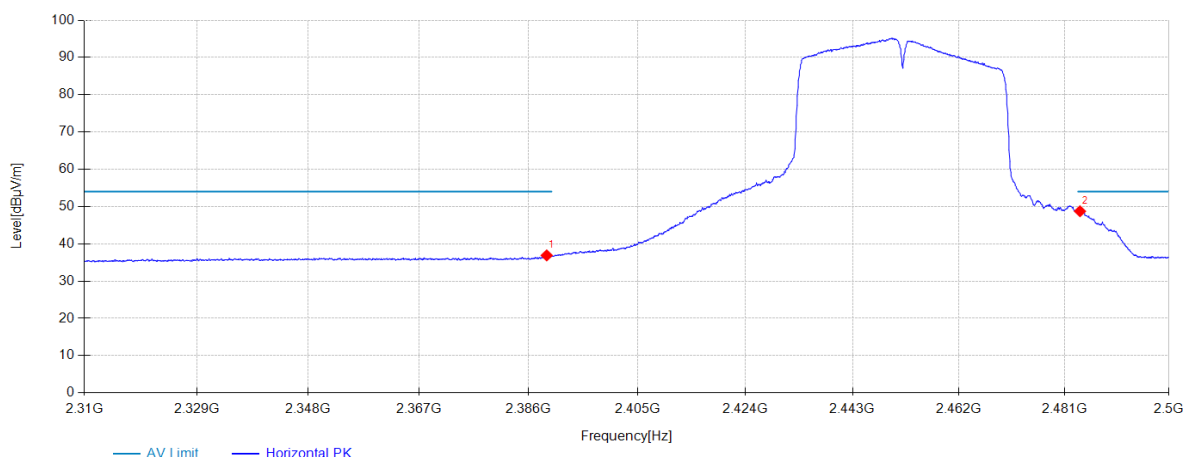
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Rev.: 01

Page: 137 of 139

802.11n40_Channel 9



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2389.1746	26.71	27.44	-17.26	36.89	54.00	17.11	Horizontal
2	2483.8419	38.15	27.74	-17.15	48.74	54.00	5.26	Horizontal



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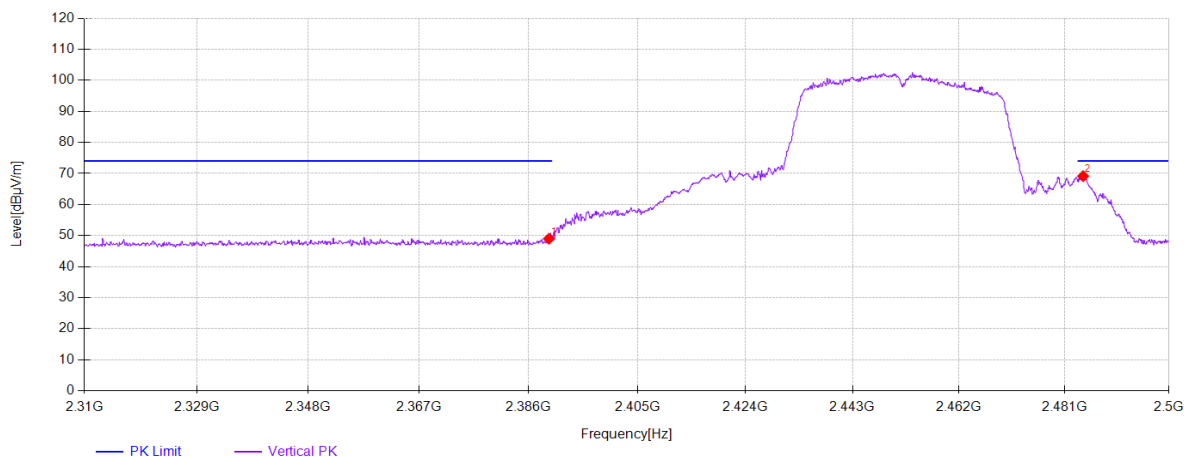
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Report No.: SUCR240200003406

Rev.: 01

Page: 138 of 139

802.11n40_Channel 9



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2389.5548	38.79	27.44	-17.25	48.98	74.00	25.02	Vertical
2	2484.4122	58.56	27.74	-17.15	69.15	74.00	4.85	Vertical



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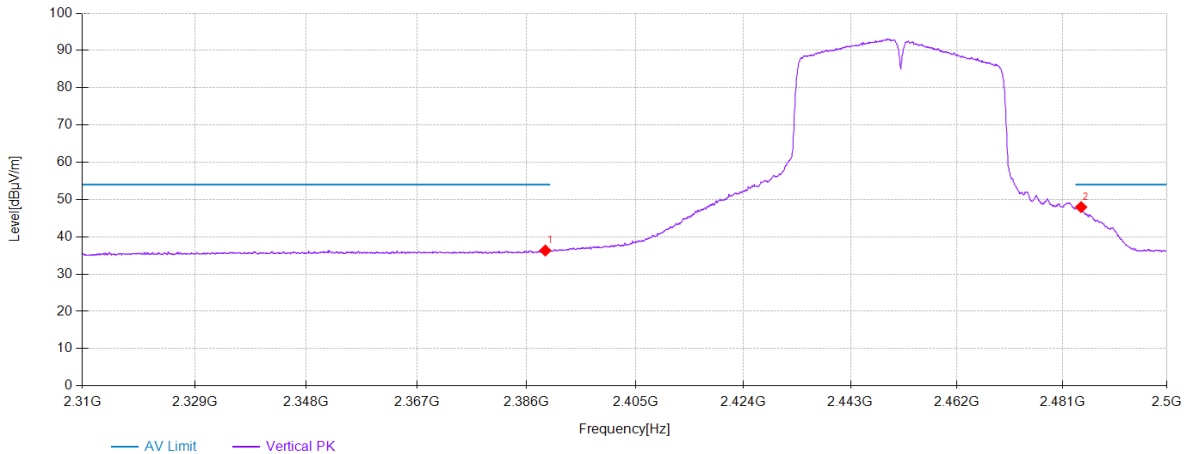
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Rev.: 01

Page: 139 of 139

802.11n40_Channel 9



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2389.2696	26.14	27.44	-17.26	36.32	54.00	17.68	Vertical
2	2484.4122	37.38	27.74	-17.15	47.97	54.00	6.03	Vertical

Remark:

- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

$$\text{Level} = \text{Reading}(\text{dB}\mu\text{V}) + \text{AF}(\text{dB}/\text{m}) + \text{Factor}(\text{dB})$$

$$\text{AF} = \text{Antenna Factor}(\text{dB}/\text{m})$$

$$\text{Factor} = \text{Cable Factor}(\text{dB}) - \text{Preamplifier gain}(\text{dB})$$

$$\text{Margin} = \text{Limit}(\text{dB}\mu\text{V}/\text{m}) - \text{Level}(\text{dB}\mu\text{V}/\text{m})$$
- Both peak and average measured complies with the limit line, so test result is "PASS"

---End of Report---



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