



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400026803

Rev.: 01

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TEST REPORT

Application No.: SUCR2504000268MO
Applicant: Quectel Wireless Solutions Co., Ltd.
Address of Applicant: Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233
Manufacturer: Quectel Wireless Solutions Co., Ltd.
Address of Manufacturer: Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233
EUT Description: Wi-Fi & Bluetooth Module
Model No.: FCM361R
Trade Mark: Quectel
FCC ID: XMR2025FCM361R
Standards: FCC 47 CFR Part 2, Subpart J
FCC 47 CFR Part 15, Subpart C
Date of Receipt: April 2, 2025
Date of Test: April 15, 2025 to April 23, 2025
Date of Issue: April 25, 2025

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

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Version

Revision Record			
Version	Description	Date	Remark
01	Original	April 25, 2025	/

Authorized for issue by:				
Tested By				
		Nature Shen / Project Manager		
Approved By				
		Cloud Peng/Technical Manager		



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1 Test Summary

Test Item	FCC Rule No.	Test Method	Test Result	Result
Antenna Requirement	15.203/15.247(b)	--	Clause 3.1	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10 2013 Section 6.2	Clause 3.2	PASS
Duty Cycle	--	ANSI C63.10 2013 Section 11.6	Clause 3.3	For Report Purpose
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013 Section 11.9.1.3	Clause 3.4	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 3.5	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10 2013 Section 11.10.2	Clause 3.6	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	Clause 3.7	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	Clause 3.8	PASS
Radiated Spurious Emissions	15.247(d);15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 3.9	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d);15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 3.10	PASS



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2 General Information

2.1 Details of Client

Applicant:	Quectel Wireless Solutions Co., Ltd.
Address of Applicant:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233
Manufacturer:	Quectel Wireless Solutions Co., Ltd.
Address of Manufacturer:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233

2.2 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:	Layne Li, King-p Li

2.3 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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2.4 General Description of EUT

EUT Description:	Wi-Fi & Bluetooth Module	
Model No.:	FCM361R	
Trade Mark:	Quectel	
Hardware Version:	R1.0	
Software Version:	FCM361RAAR01A01M08	
Operation Frequency:	802.11b/g/n(HT20)/ax(HE20):	2412MHz to 2462MHz
Modulation Type:	802.11b:	DSSS (DBPSK, DQPSK, CCK)
	802.11g/n:	OFDM (BPSK, QPSK, 16QAM, 64QAM)
	802.11ax:	OFDM/OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
Number of Channels:	802.11b/g/n(HT20)/ax(HE20): 11	
Channel Spacing:	5MHz	
Smart System:	☒ SISO	802.11b/g/n/ax
Antenna Type:	☒ External, ☐ Integrated	
Antenna Gain:	0.3dBi	
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.	
RF Cable*:	1dB	
Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information , SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.		
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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Operation Frequency of each channel (802.11b/g/n HT20 /ax HE20)							
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		
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) /ax (HE20)					
The Lowest channel		2412MHz					
The Middle channel		2437MHz					
The Highest channel		2462MHz					



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2.5 Test Environment and Mode

Environment Parameter	101 kPa Selected Values During Tests	
Relative Humidity	44-46 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~23	3.3
Remark: NV: Normal Voltage NT: Normal Temperature		

2.6 Description of Support Units

The EUT has been tested as an independent unit.

2.7 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)	/
802.11ax (HE 20)	MCS0 (8 Mbps)	/



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3 Equipment List

RF Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	SUWI-04-08-01	11/9/2022	11/8/2025
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2/18/2024	2/17/2025
Measurement Software	Tonscend	TST272 V2.0	SUWI-03-55-03	NCR	NCR
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	5/8/2024	5/7/2025
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-02	5/9/2024	5/8/2025
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	1/21/2025	1/20/2026
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	1/15/2025	1/14/2026
Power meter	Anritsu	ML2495A	SUWI-01-31-01	11/19/2024	11/18/2025
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	11/19/2024	11/18/2025
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	1/15/2025	1/14/2026
Router	ASUS	GT-AXE11000(FCC ID MSQ-RTAXJF00)	SUWI-03-14-02	NCR	NCR
Signal Generator	ROHDE&SCHWARZ	SMW200A	SUWI-01-07-08	3/27/2025	3/26/2026
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-07	11/19/2024	11/18/2025

Conduction Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	1/15/2025	1/14/2026
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2/13/2025	2/12/2026
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-03	5/6/2024	5/5/2025
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-04	5/6/2024	5/5/2025
Measurement Software	Tonscend	JS32-CE 4.0.0.2	SUWI-02-09-05	NCR	NCR



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RSE Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	6/3/2023	6/2/2026
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2/13/2025	2/12/2026
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	5/8/2024	5/7/2025
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-07	11/21/2024	11/20/2025
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	1/15/2025	1/14/2026
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9168	SUWI-01-11-04	8/22/2024	8/21/2026
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	5/13/2023	5/12/2025
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	5/12/2023	5/11/2025
Active Loop Antenna	SCHWRZBECK MESS- ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	5/13/2023	5/12/2025
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	1/16/2025	1/15/2026
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	1/16/2025	1/15/2026
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	1/20/2025	1/19/2026
Measurement Software	Tonscend	JS32-RE V4.0.0.0	SUWI-02-09-04	NCR	NCR

Remark: NCR=No Calibration Requirement.



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4 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	$\pm 2.90\text{dB}$ (150kHz to 30MHz)
8	Radiated Emission	$\pm 3.13\text{dB}$ (9k -30MHz)
		$\pm 4.80\text{dB}$ (30M -1GHz)
		$\pm 4.80\text{dB}$ (1GHz to 18GHz)
		$\pm 4.80\text{dB}$ (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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5 Test results and Measurement Data

5.1 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 External Antenna and no consideration of replacement. The best case gain of the antenna is 0.3dBi.	
<i>Note:</i> <i>The antenna gain are derived from the gain information report provided by the manufacturer.</i> <i>Remark:</i> <i>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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5.2 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 $50\Omega/50\mu\text{H} + 5\Omega$ 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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Test Setup:	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel. Adapter + 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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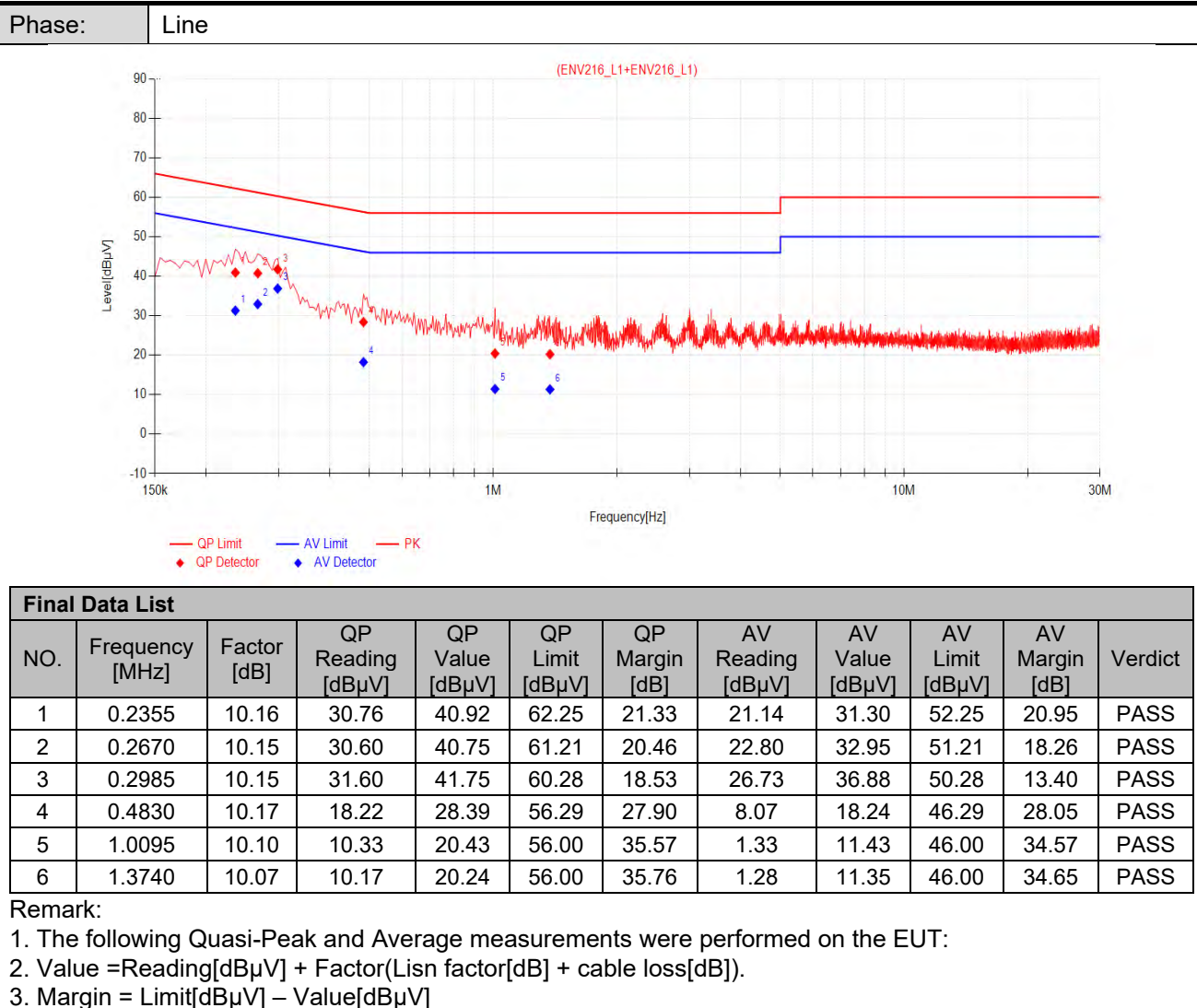
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Measurement Data

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.



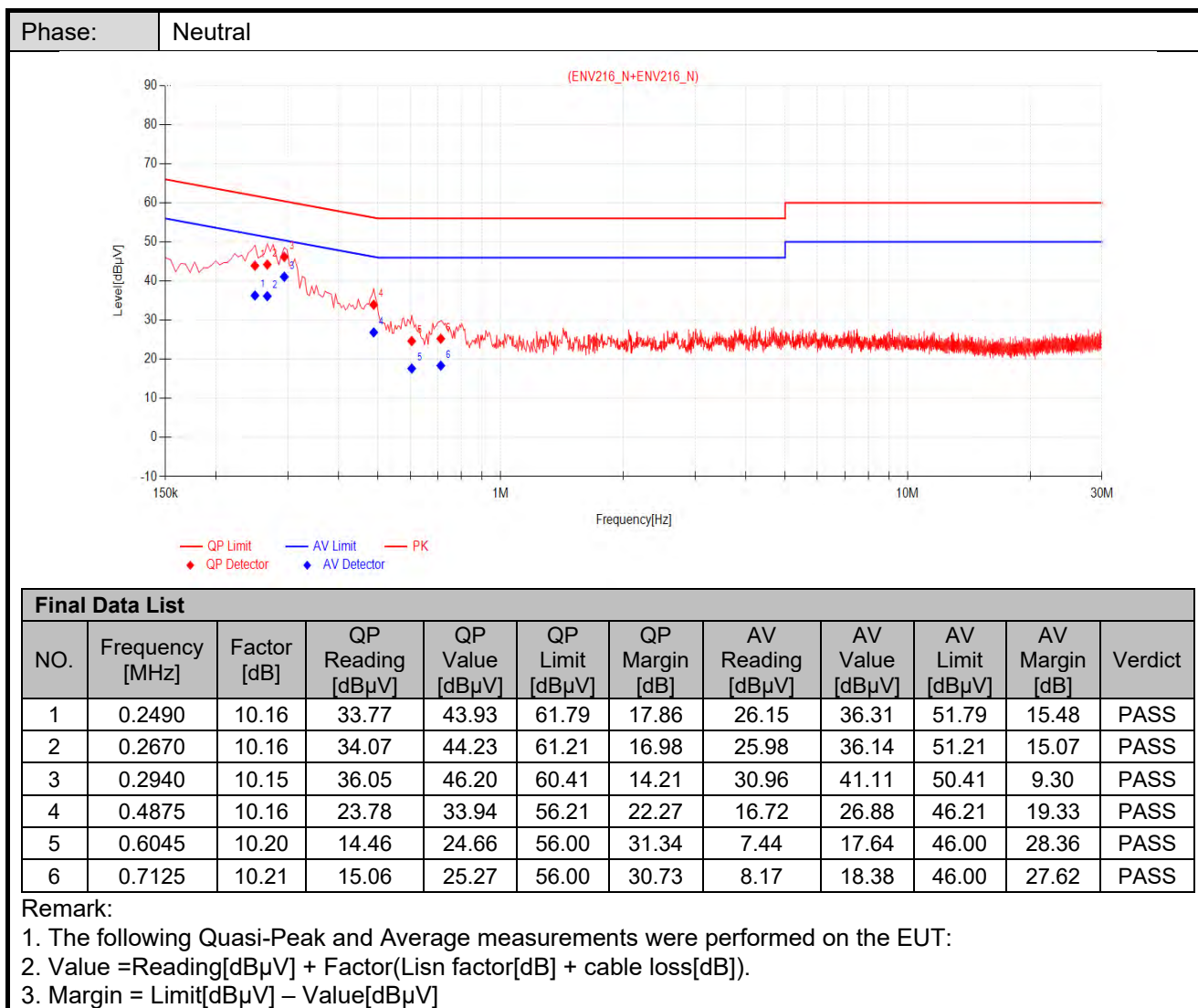


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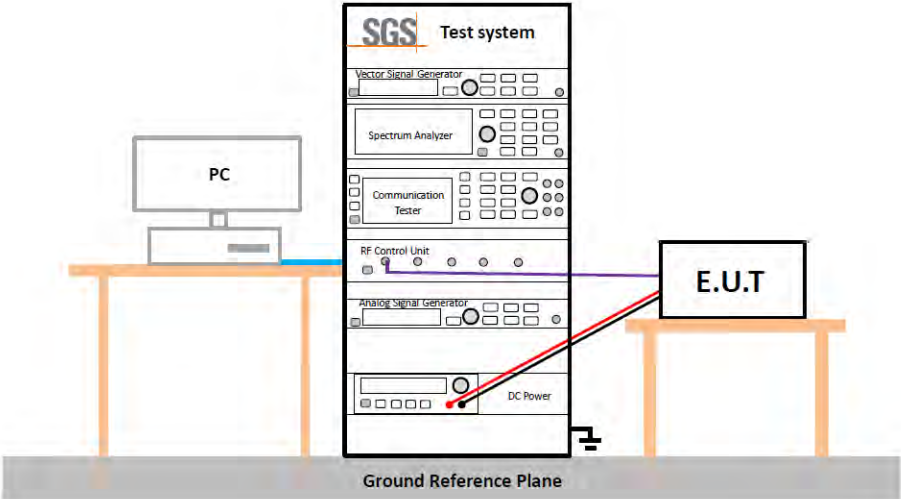
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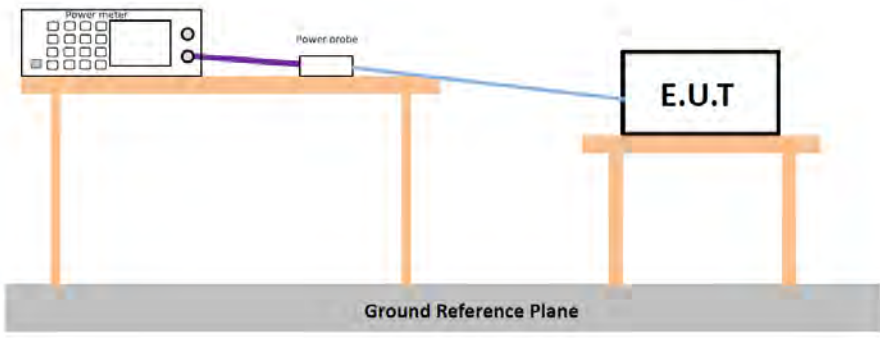
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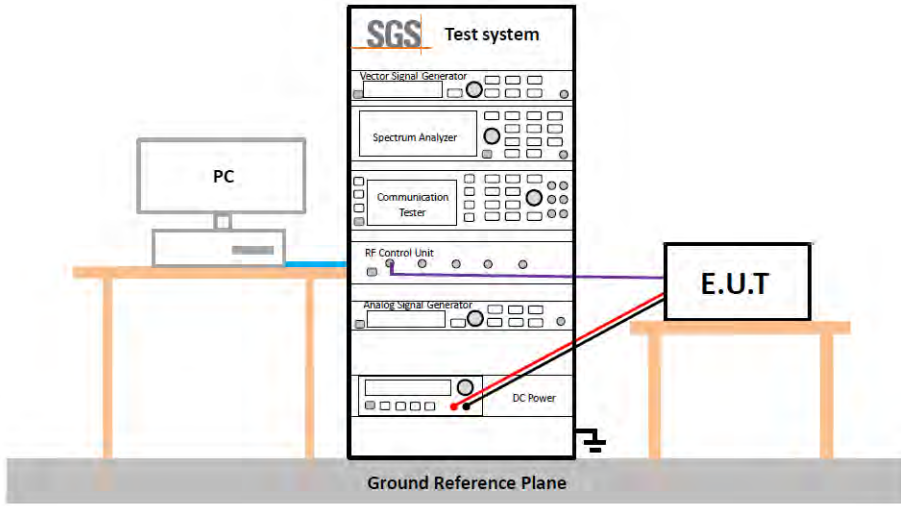
5.3 Duty Cycle

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	

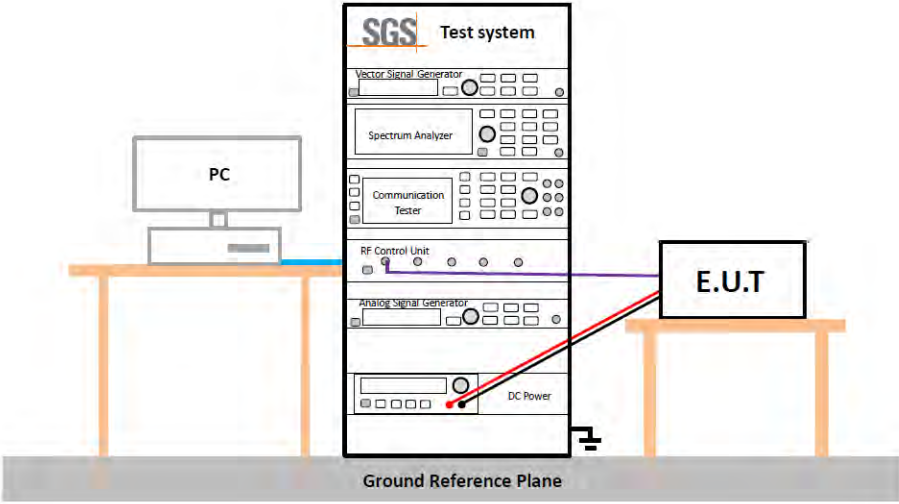
5.4 Conducted Output Power

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	

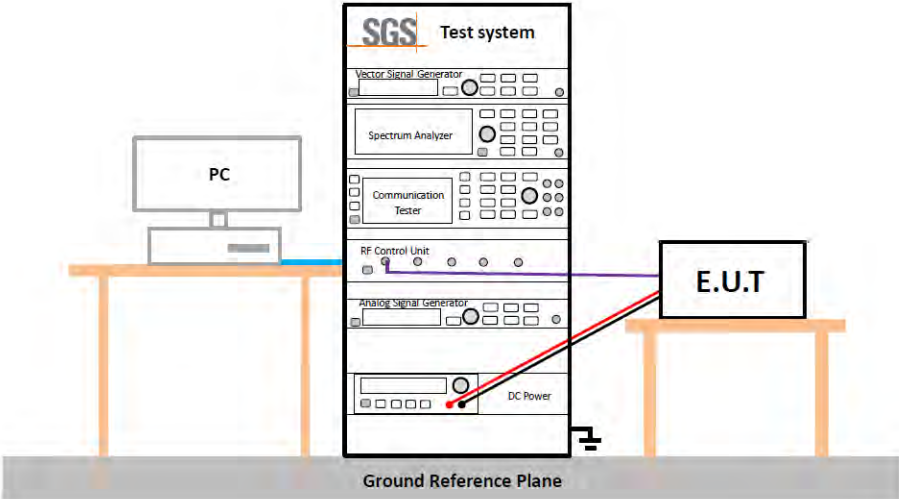
5.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth

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	

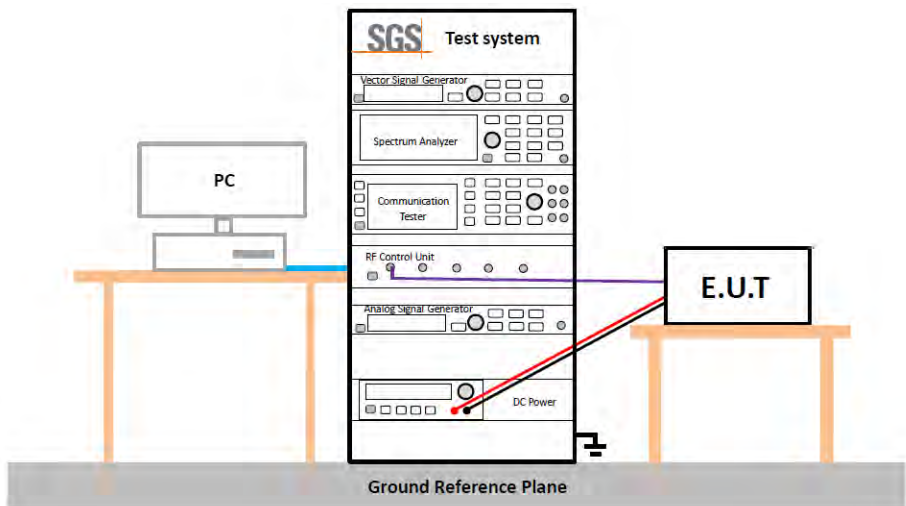
5.6 Power Spectral Density

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	

5.7 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	

5.8 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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5.9 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.				

Test Setup:

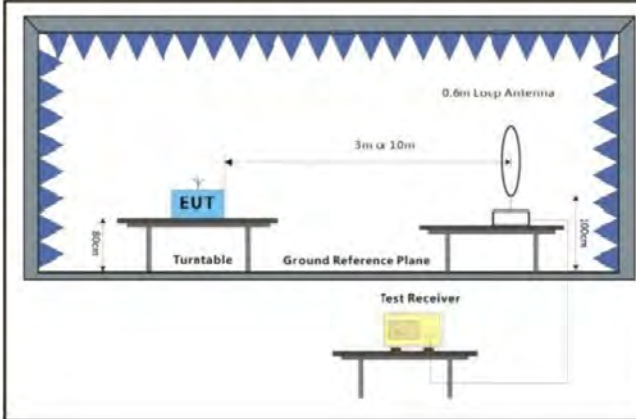


Figure 1. Below 30MHz

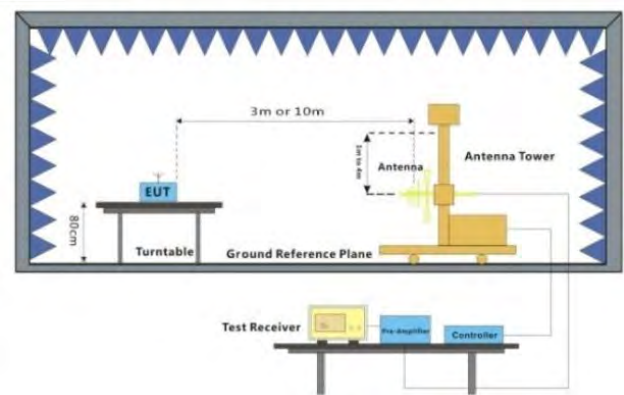


Figure 2. 30MHz to 1GHz

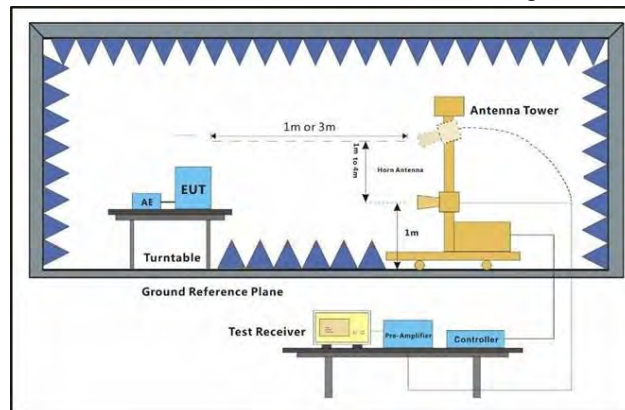


Figure 3. Above 1 GHz

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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- Test the EUT in the lowest channel, the middle channel, the Highest



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	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 $20 \cdot \text{LOG}(3/1) = 9.54 \text{ dB}$.
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. Adapter + 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	

5.10 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:

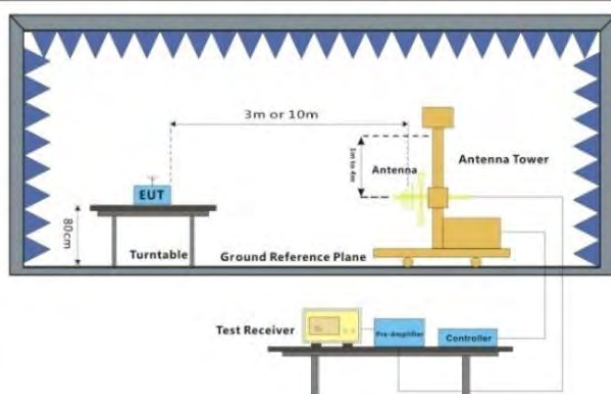


Figure 1. 30MHz to 1GHz

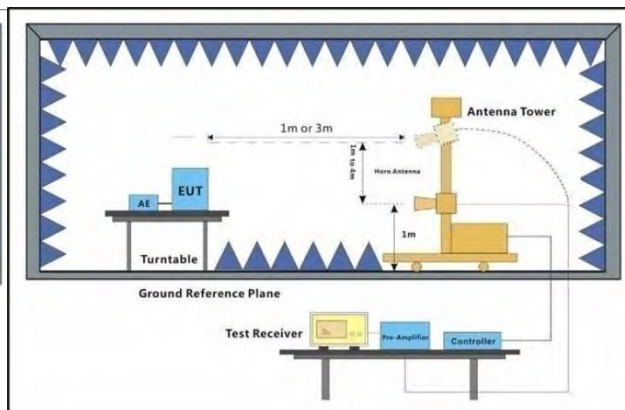


Figure 2. Above 1 GHz

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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. Adapter + Transmitting mode.
Final Test Mode:	Refer to section 3.7 for details.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass
The detailed test data see: Appendix	



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6 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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7 Appendix

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

Ant1									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	/	/	12.194	12.297	99.16	0.04	0.03
		2437	/	/	12.193	12.296	99.16	0.04	0.03
		2462	/	/	12.193	12.296	99.16	0.04	0.03
802.11g	SISO	2412	/	/	2.026	2.128	95.21	0.21	0.07
		2437	/	/	2.024	2.127	95.16	0.22	0.03
		2462	/	/	2.024	2.127	95.16	0.22	0.03
802.11n (HT20)	SISO	2412	/	/	1.704	1.807	94.30	0.25	0.04
		2437	/	/	1.703	1.806	94.30	0.26	0.03
		2462	/	/	1.703	1.807	94.24	0.26	0.04
802.11ax (HEW20)	SISO	2412	SU	/	1.453	1.556	93.38	0.30	0.03
		2437	SU	/	1.454	1.557	93.38	0.30	0.03
		2462	SU	/	1.454	1.557	93.38	0.30	0.03

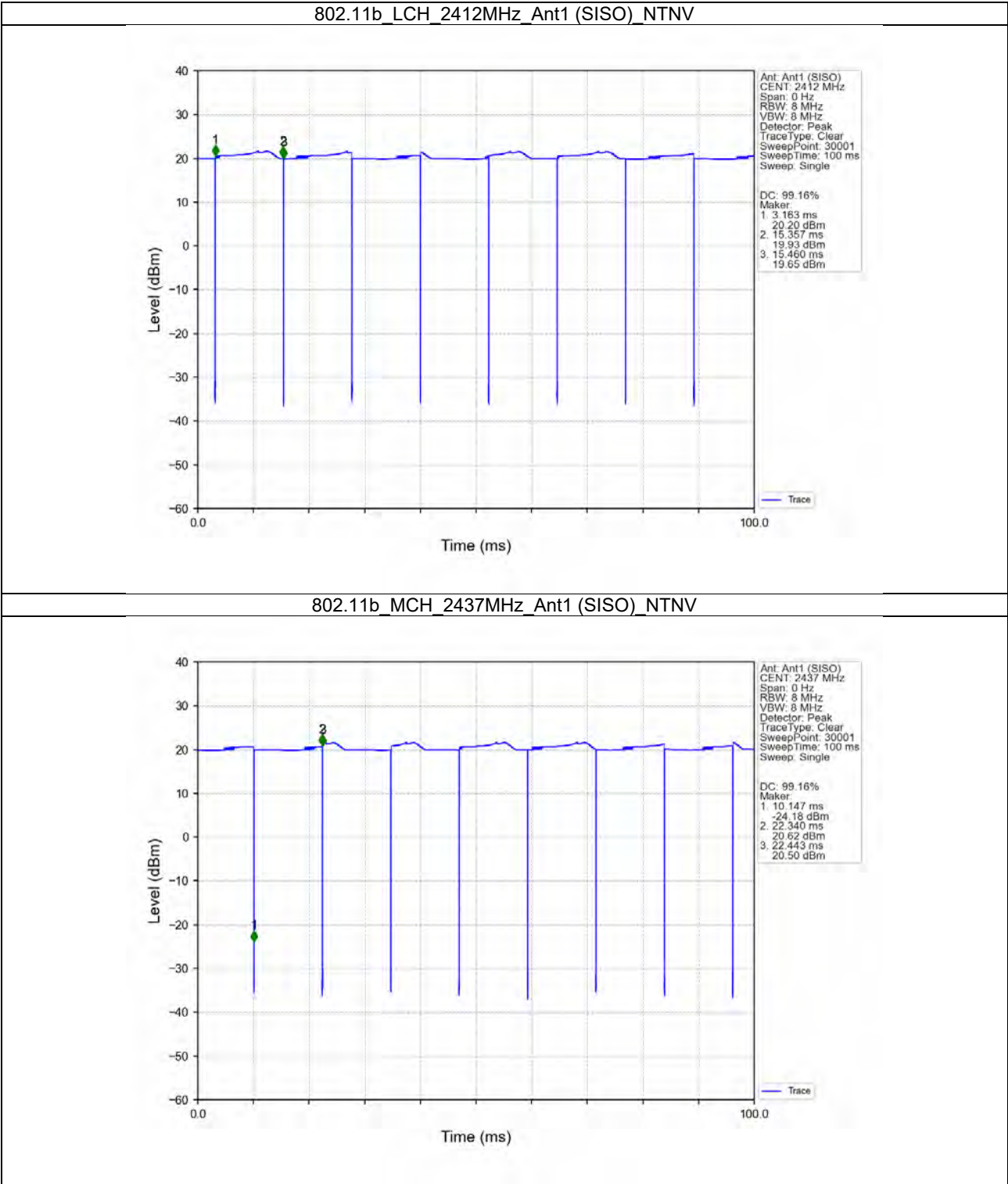


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1.2 Test Graph

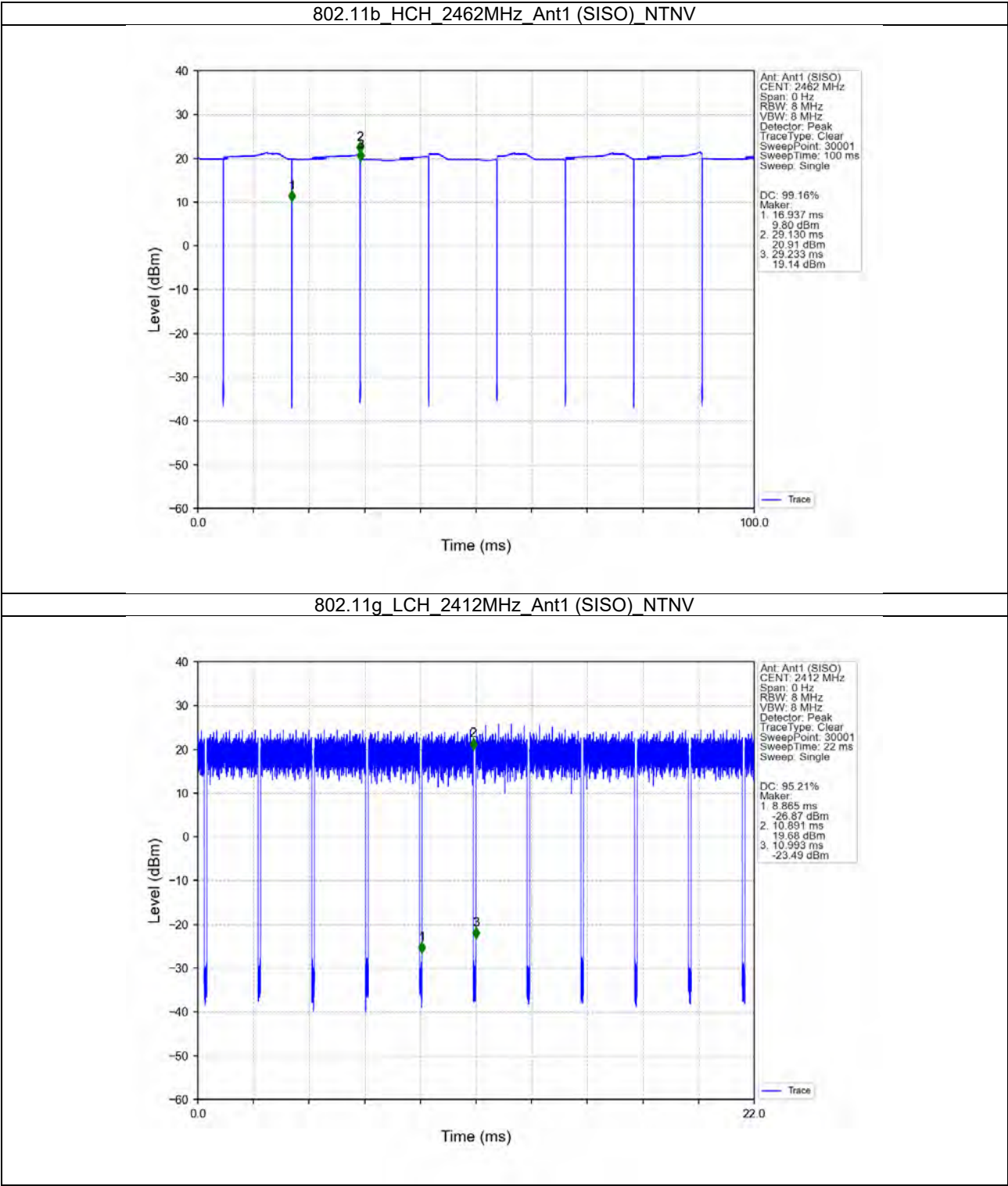
1.2.1 Ant1





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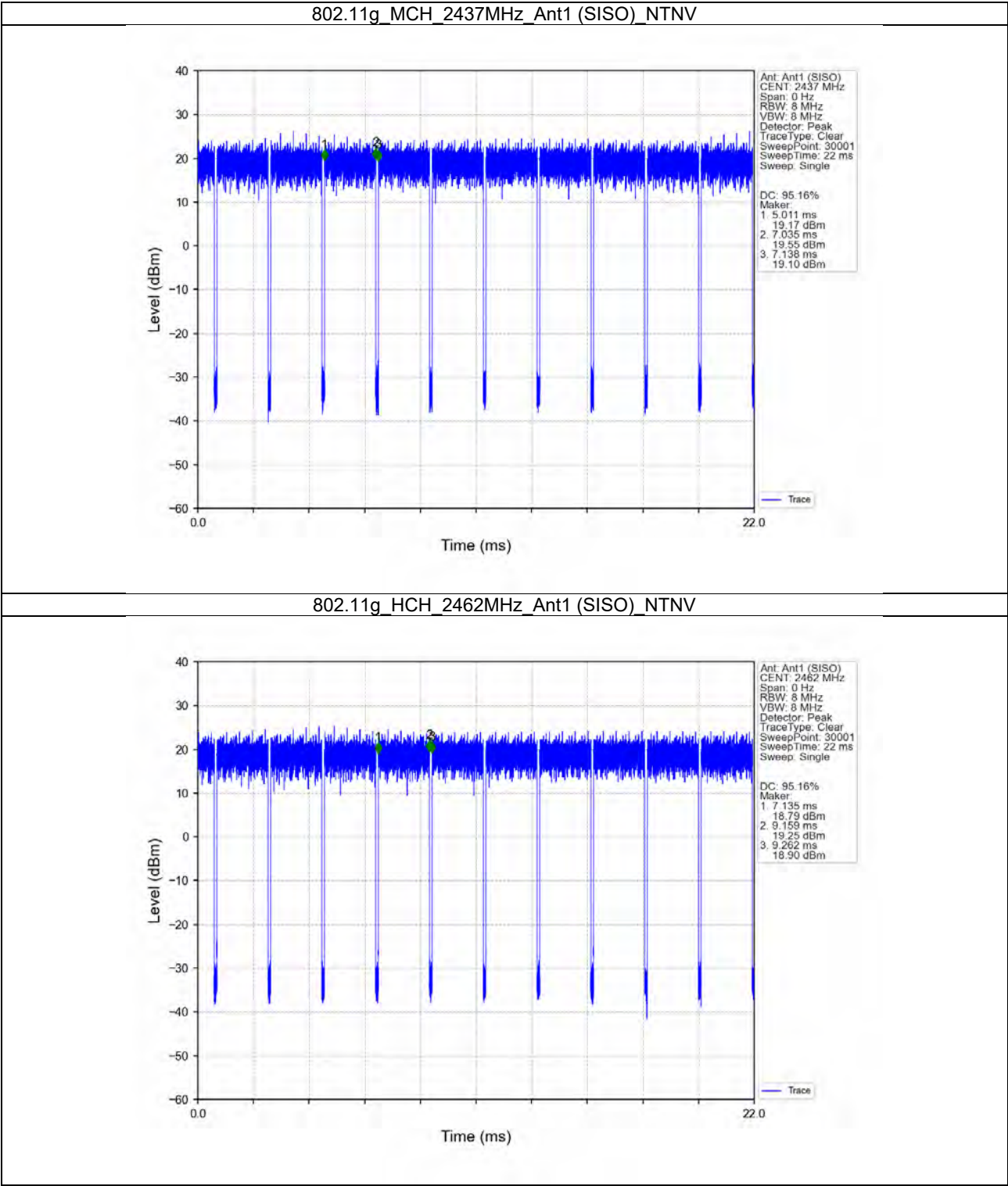
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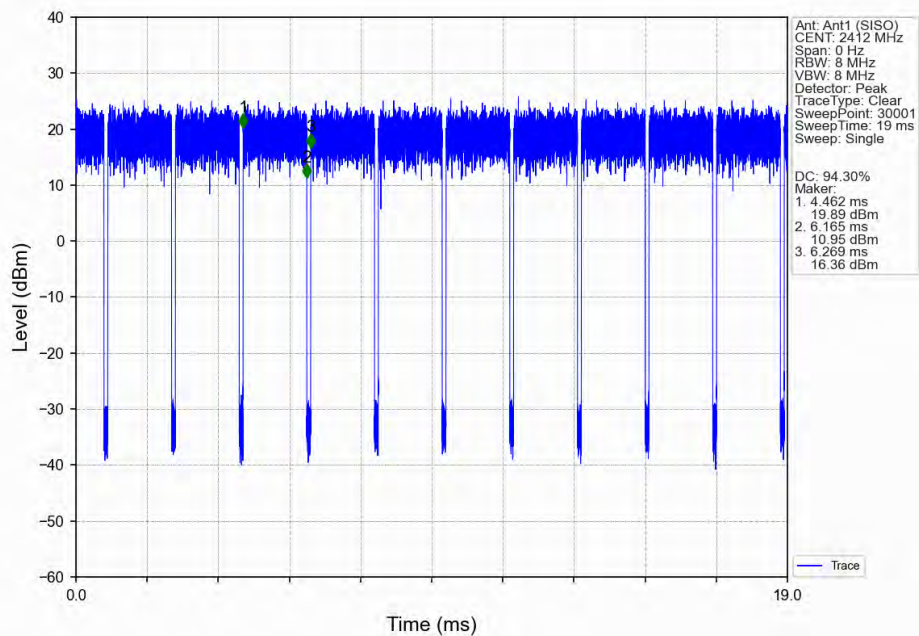




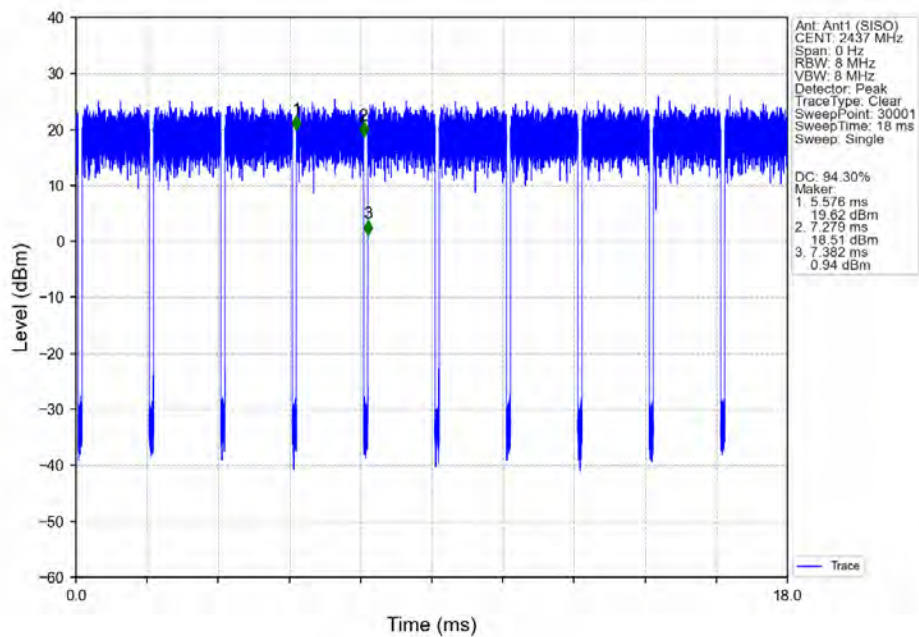
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



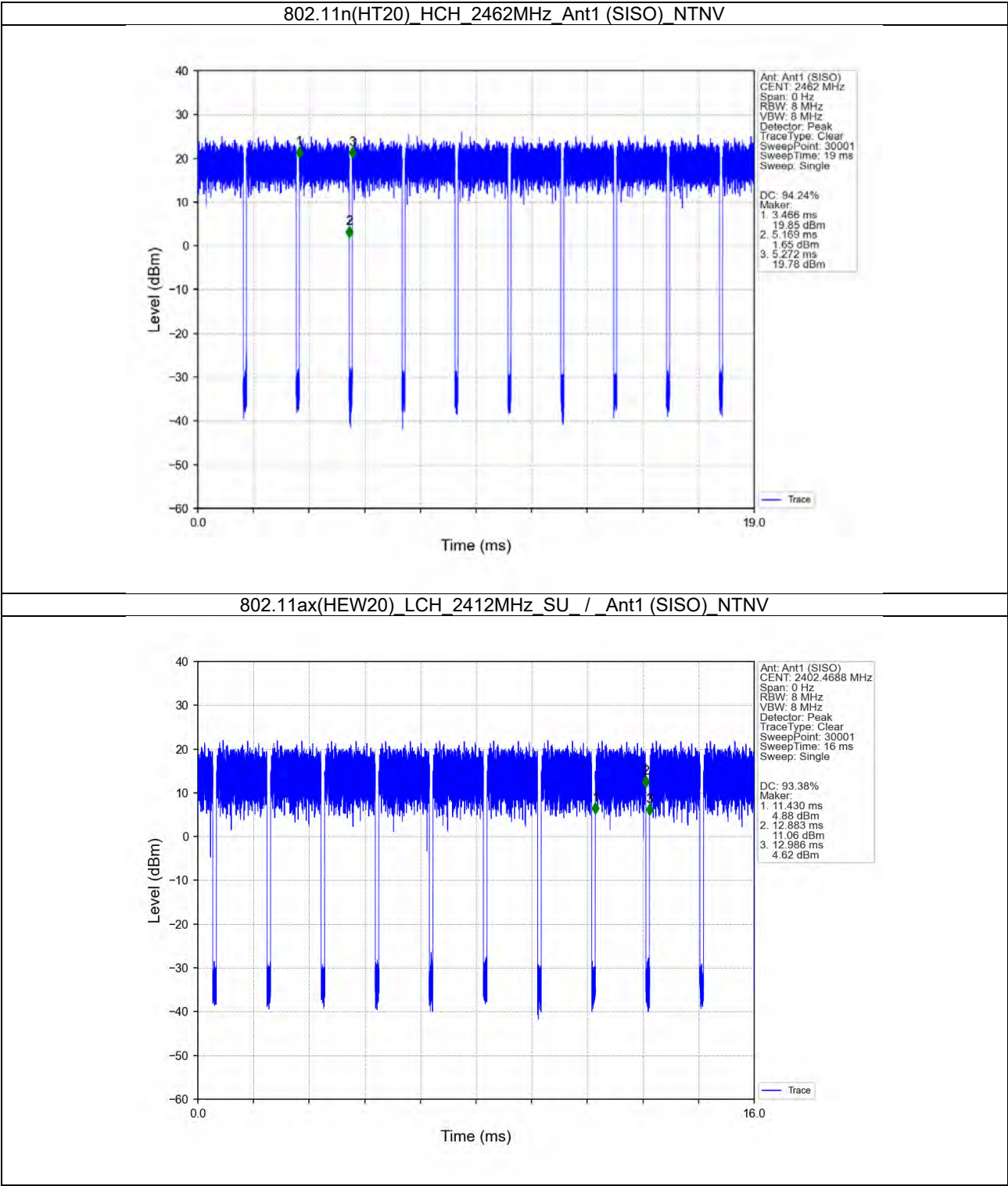
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV





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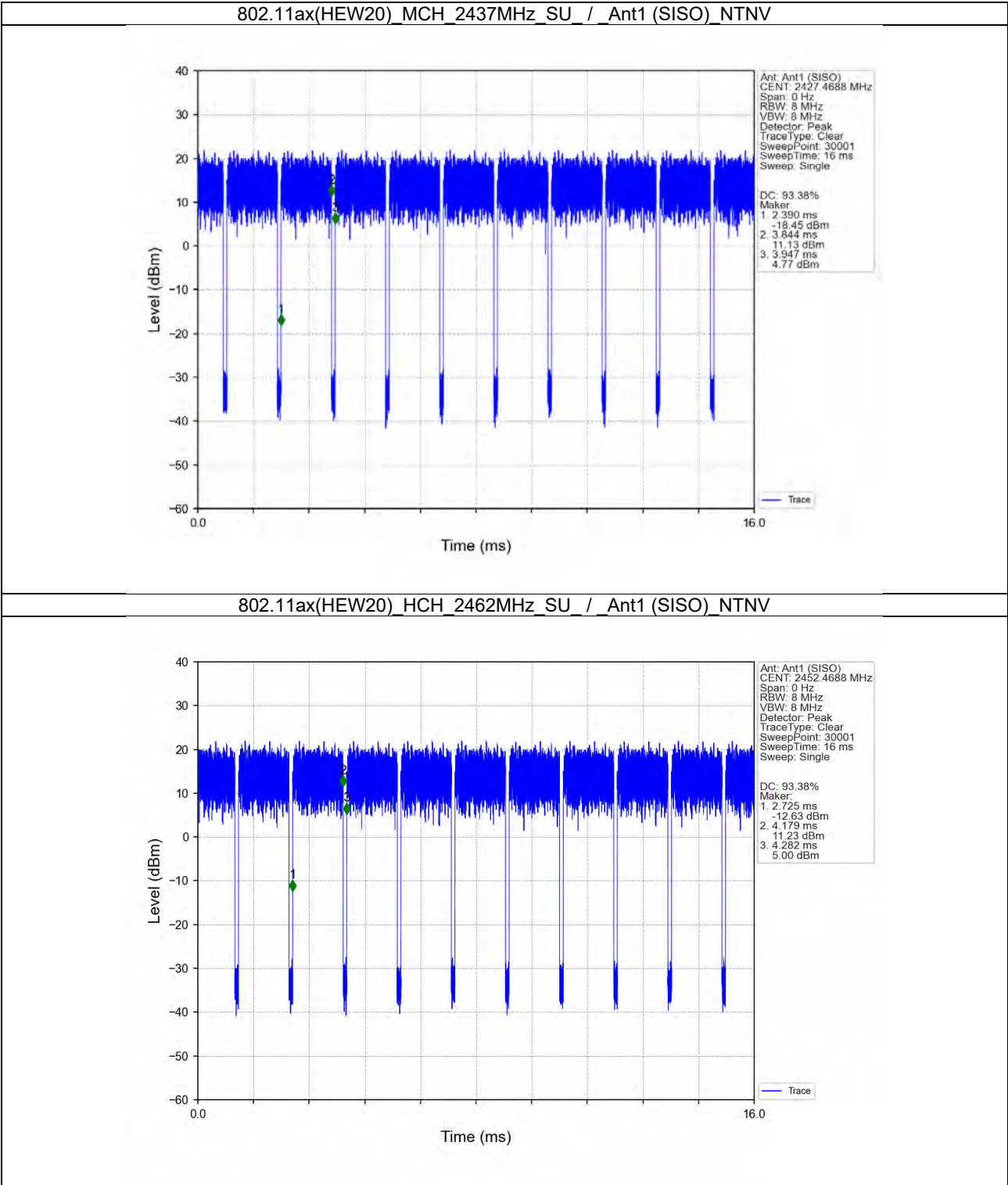
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2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	SISO	2412	/	/	1	12.639	/	Pass
		2437	/	/	1	12.662	/	Pass
		2462	/	/	1	12.188	/	Pass
802.11g	SISO	2412	/	/	1	16.721	/	Pass
		2437	/	/	1	16.720	/	Pass
		2462	/	/	1	16.710	/	Pass
802.11n (HT20)	SISO	2412	/	/	1	17.607	/	Pass
		2437	/	/	1	17.603	/	Pass
		2462	/	/	1	17.605	/	Pass
802.11ax (HEW20)	SISO	2412	SU	/	1	18.819	/	Pass
		2437	SU	/	1	18.818	/	Pass
		2462	SU	/	1	18.826	/	Pass

2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	SISO	2412	/	/	1	9.054	≥ 0.5	Pass
		2437	/	/	1	9.051	≥ 0.5	Pass
		2462	/	/	1	8.121	≥ 0.5	Pass
802.11g	SISO	2412	/	/	1	16.360	≥ 0.5	Pass
		2437	/	/	1	16.360	≥ 0.5	Pass
		2462	/	/	1	16.363	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	/	/	1	17.539	≥ 0.5	Pass
		2437	/	/	1	17.293	≥ 0.5	Pass
		2462	/	/	1	17.249	≥ 0.5	Pass
802.11ax (HEW20)	SISO	2412	SU	/	1	18.916	≥ 0.5	Pass
		2437	SU	/	1	18.881	≥ 0.5	Pass
		2462	SU	/	1	18.835	≥ 0.5	Pass

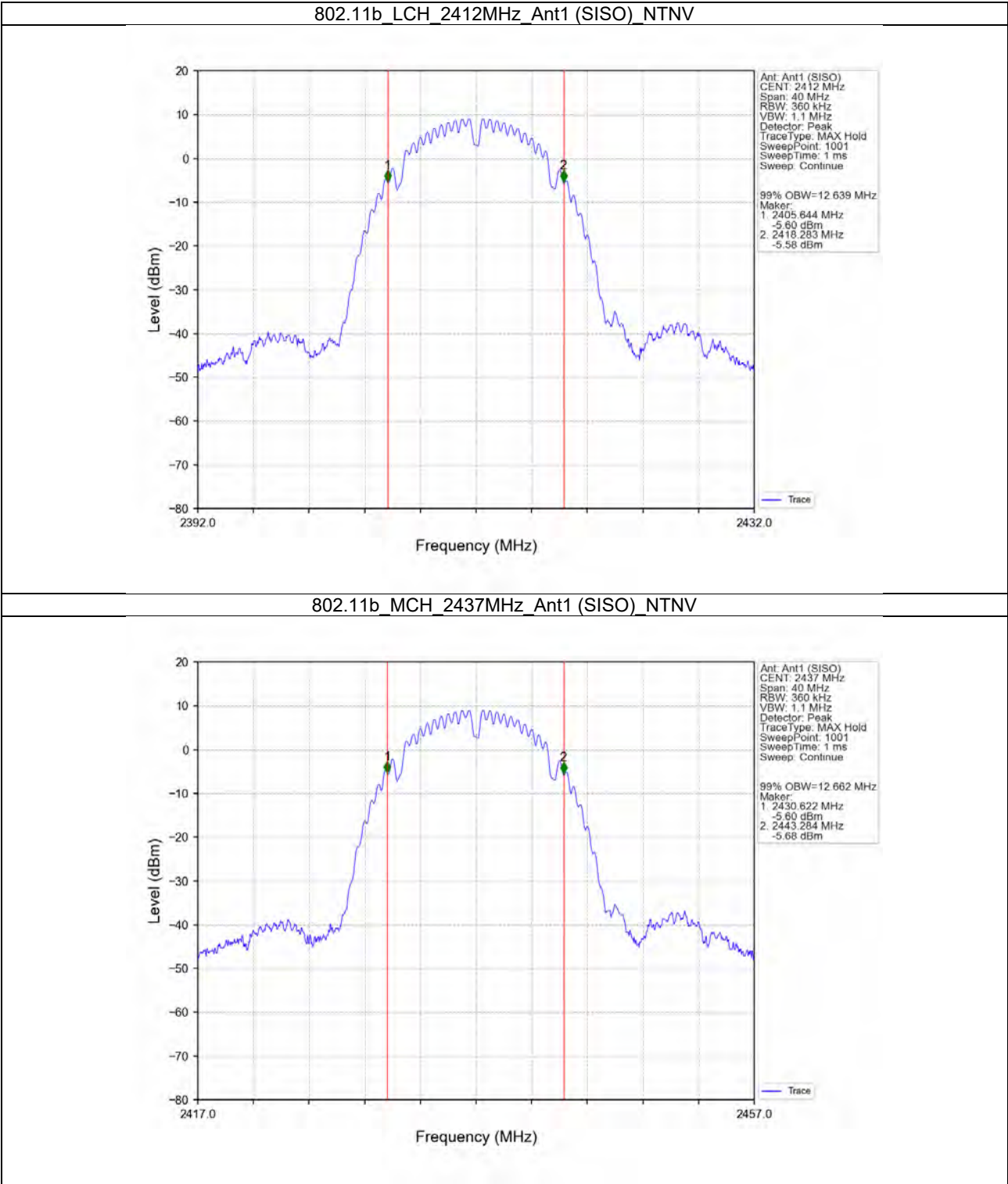


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2.2 Test Graph

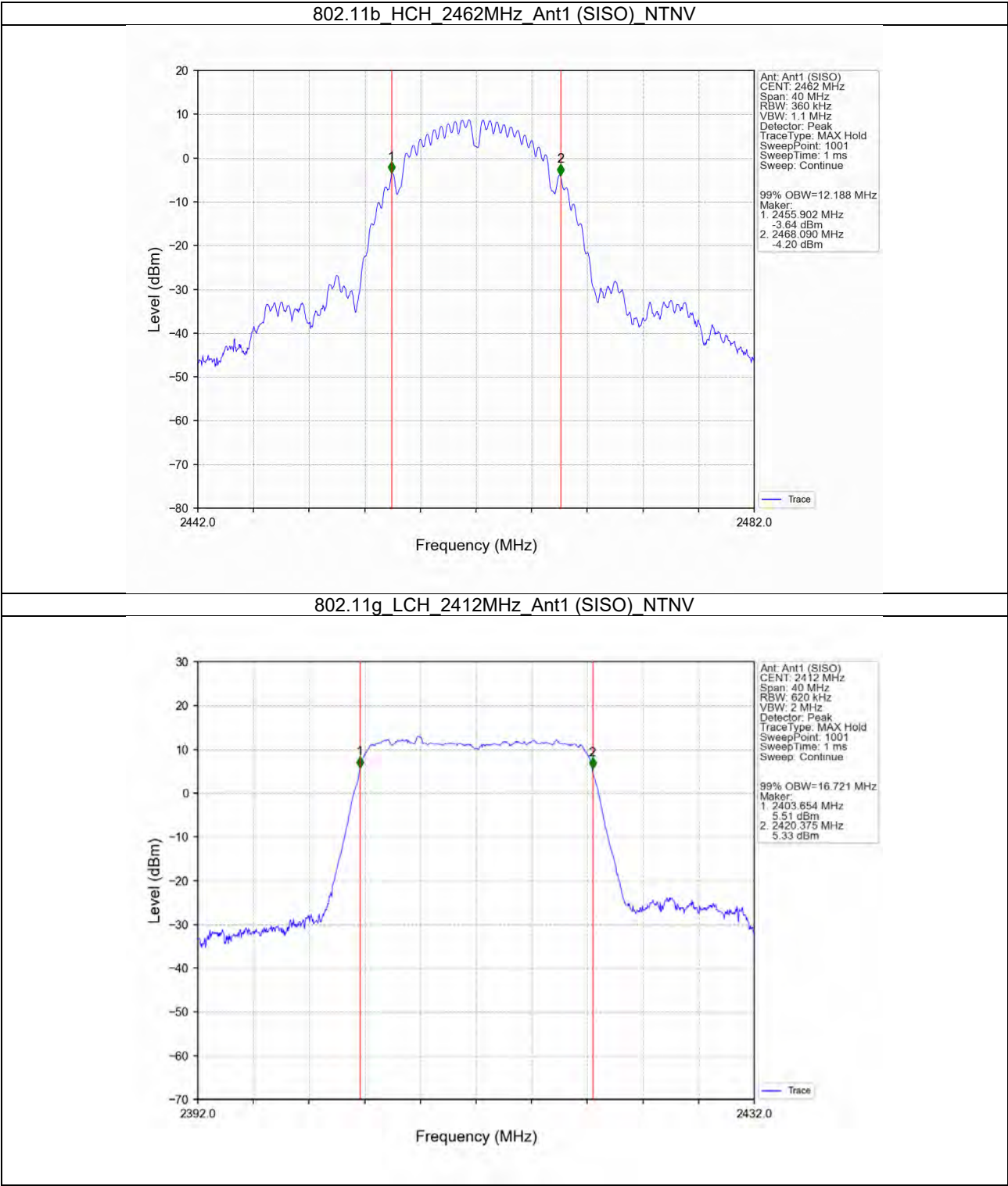
2.2.1 OBW





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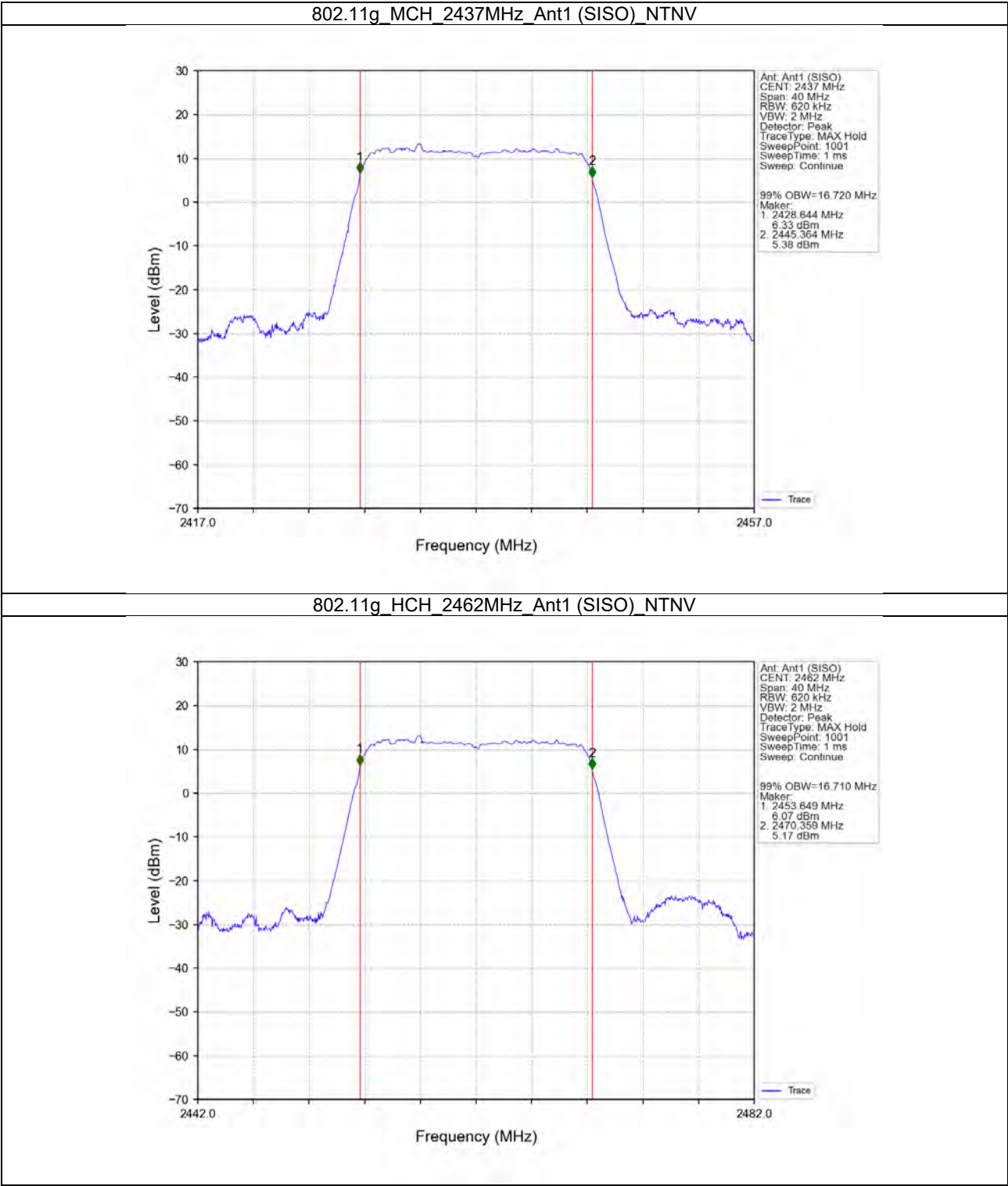
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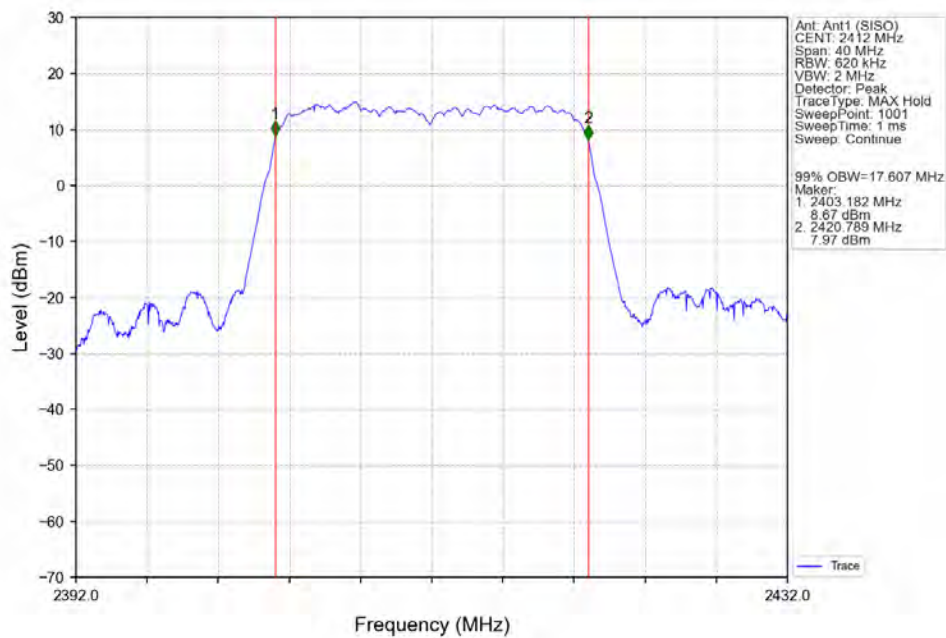




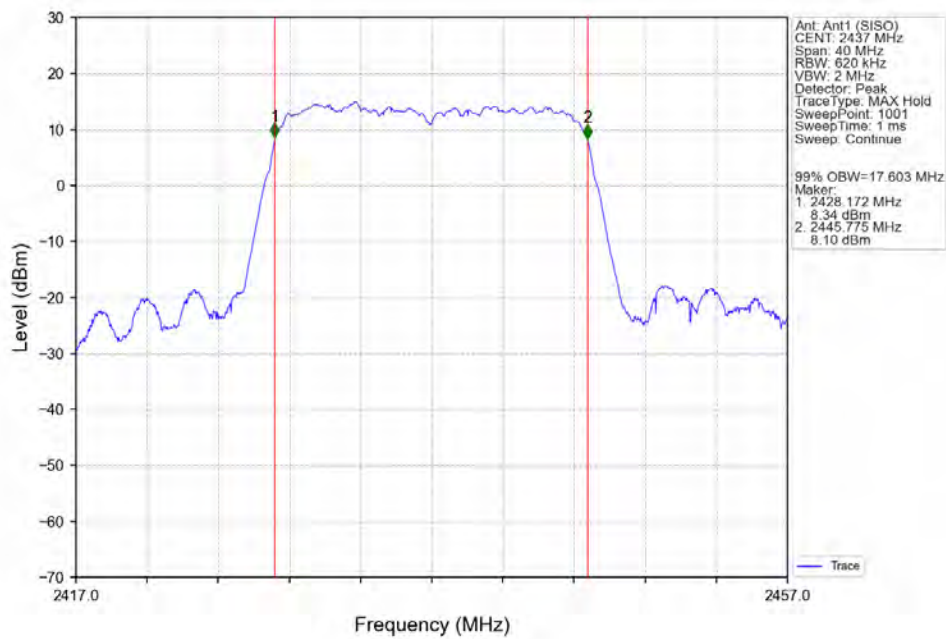
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



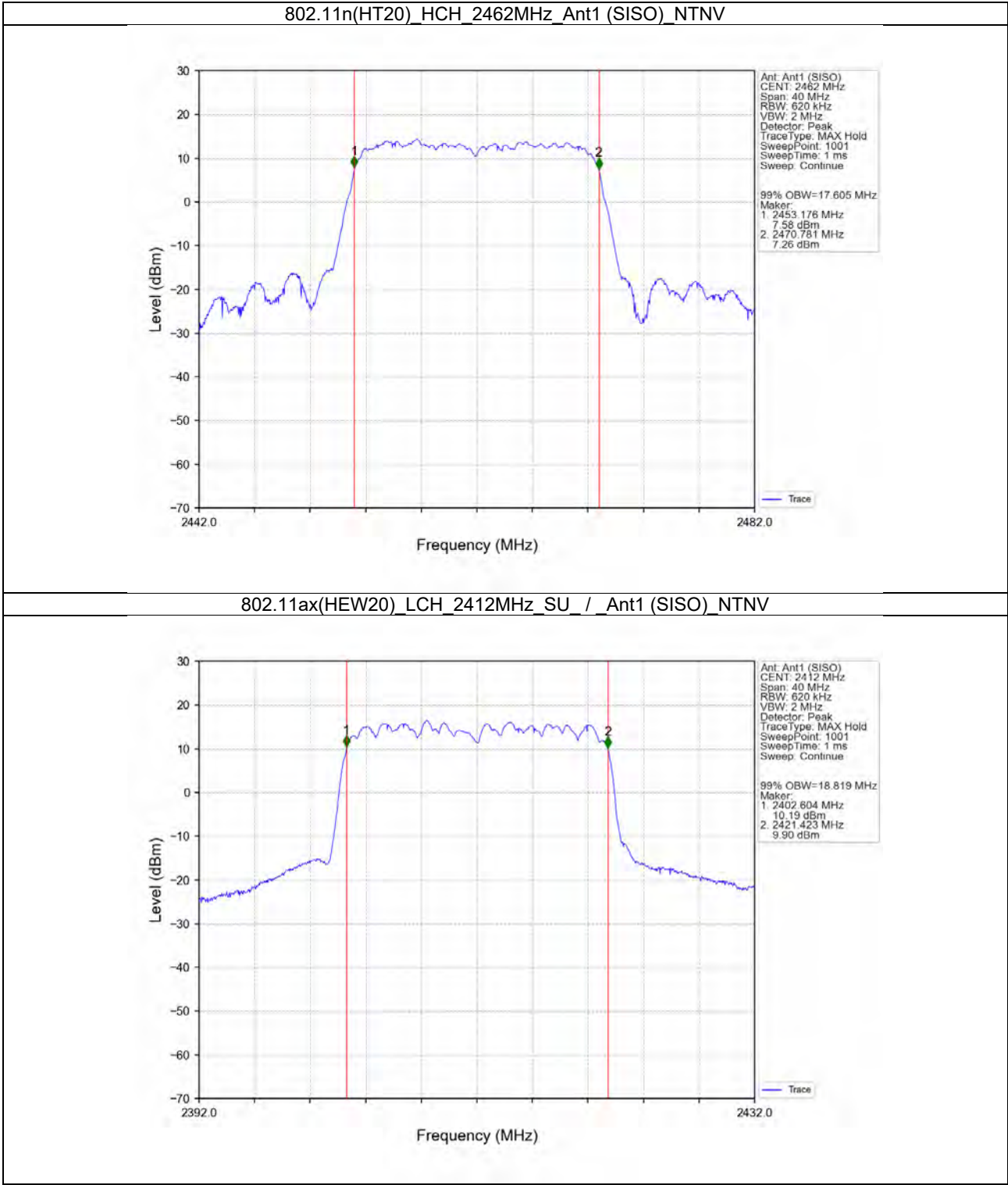
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV





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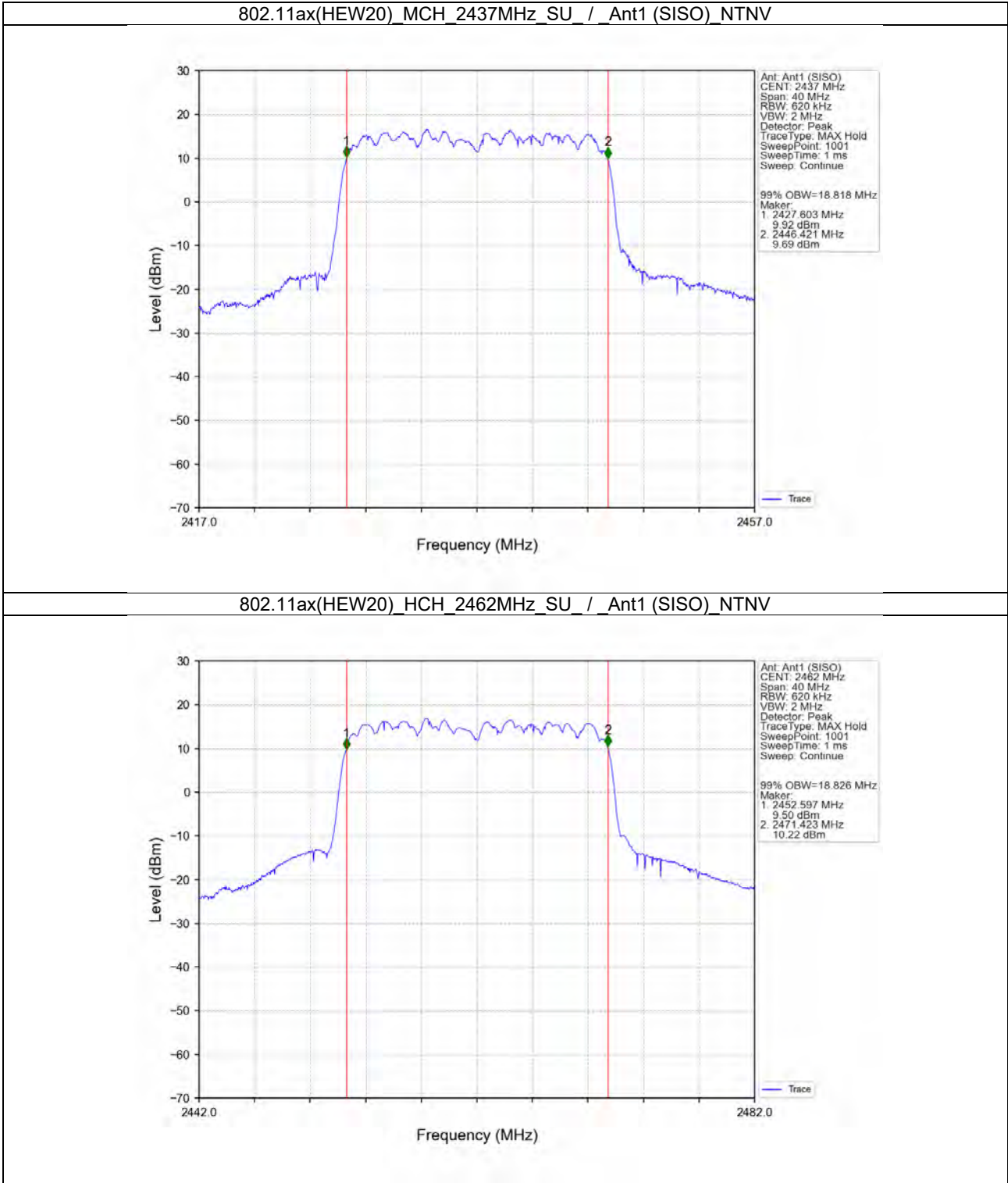
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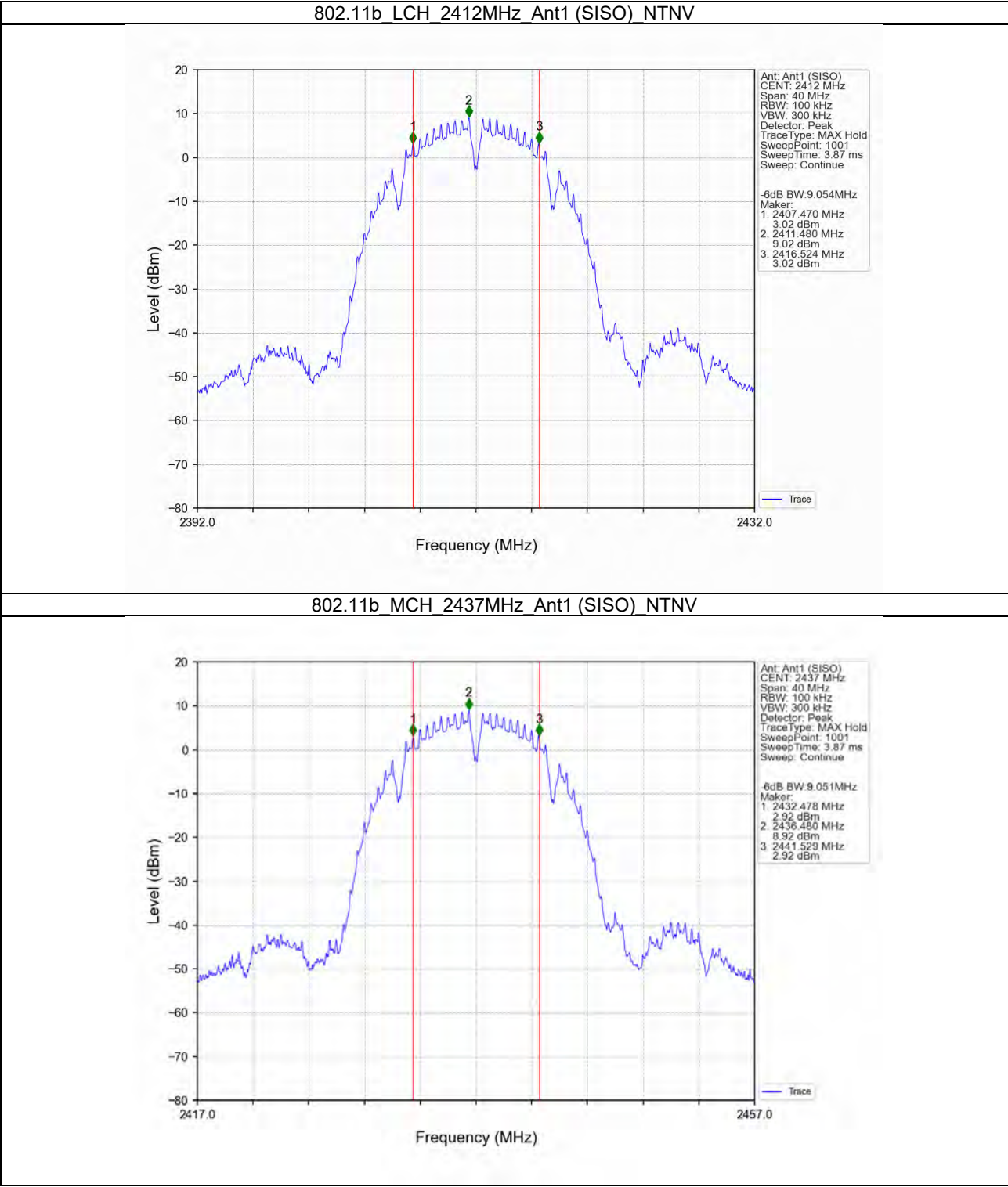




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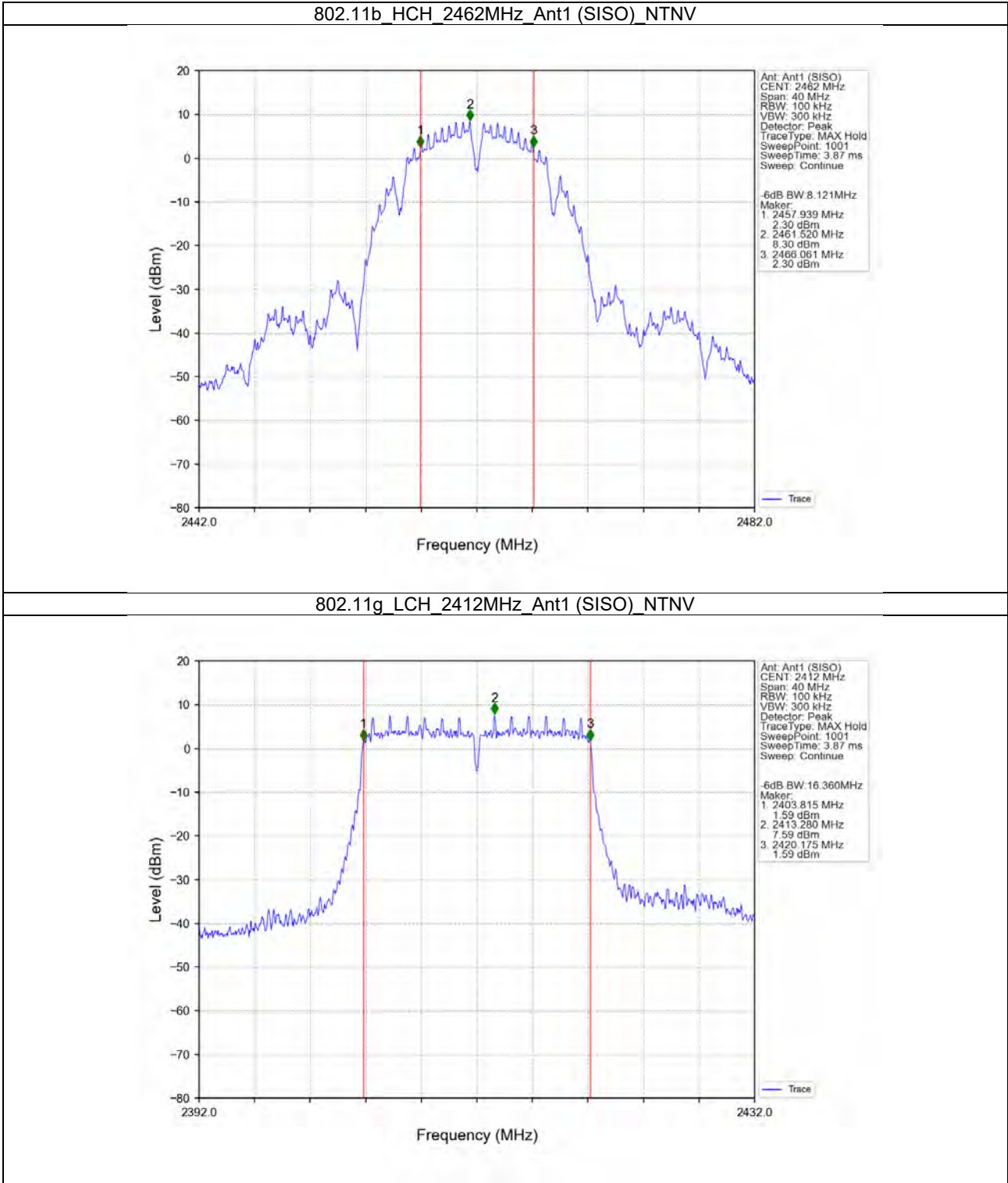
2.2.2 6dB BW





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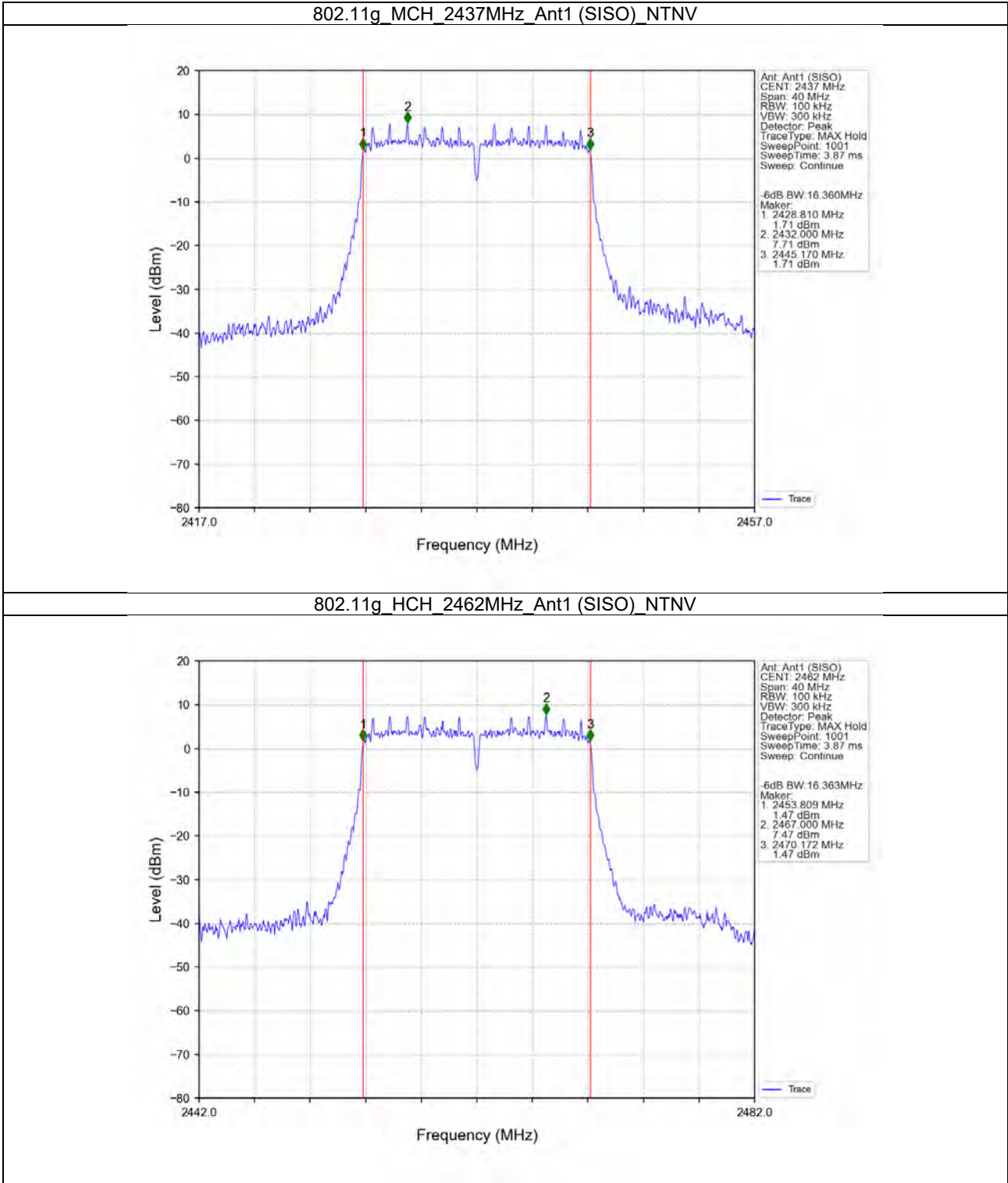
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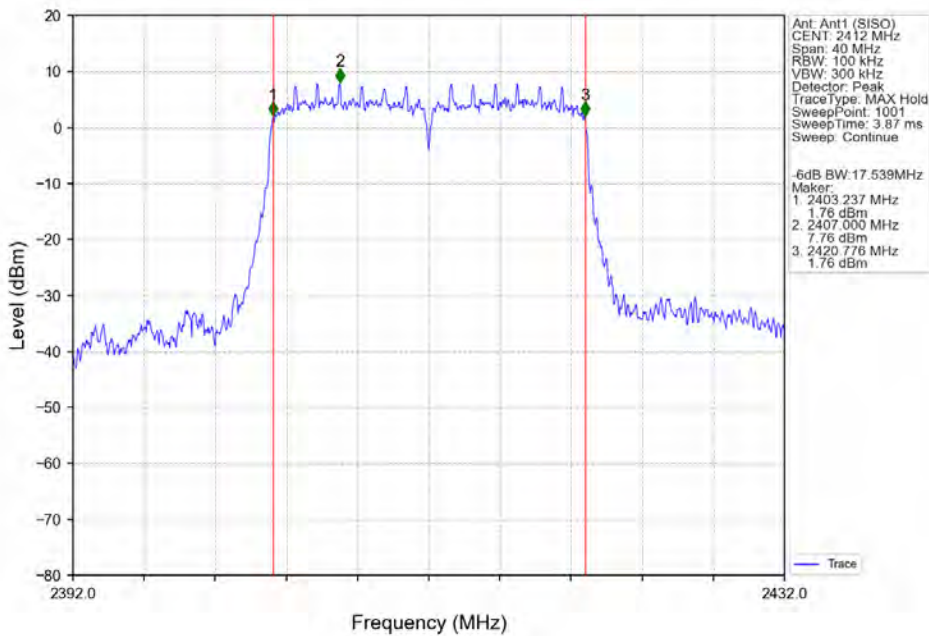




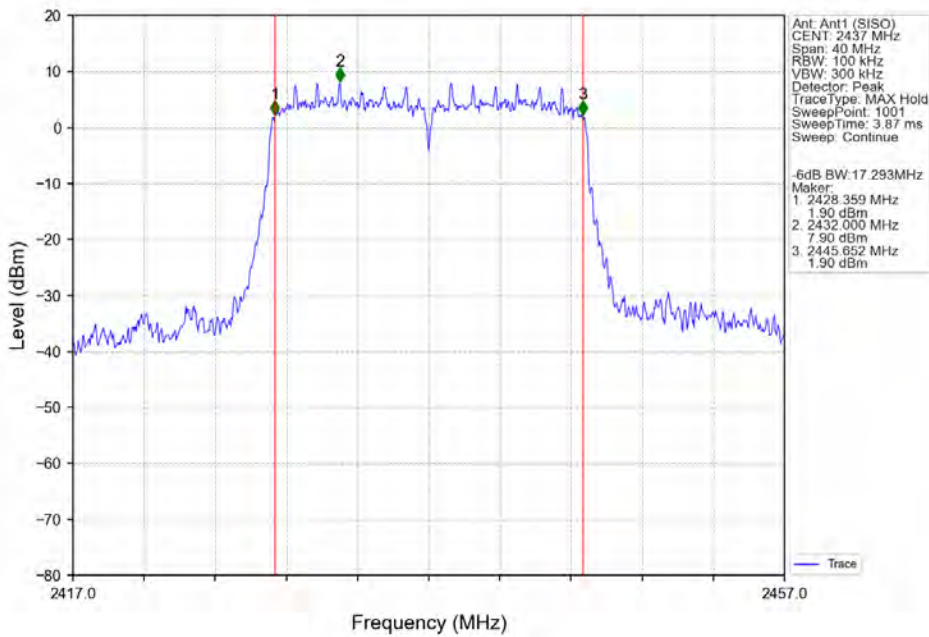
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



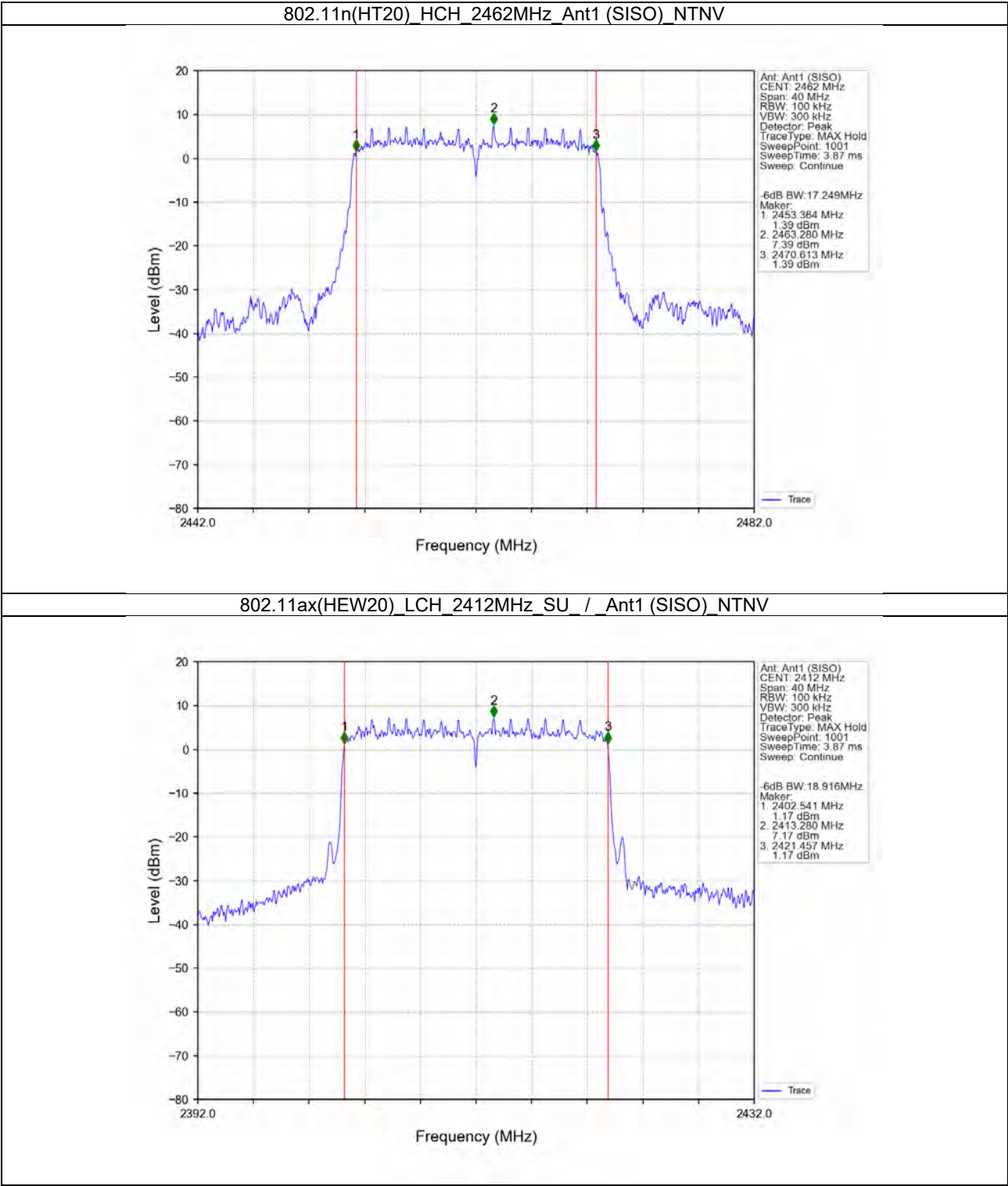
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV





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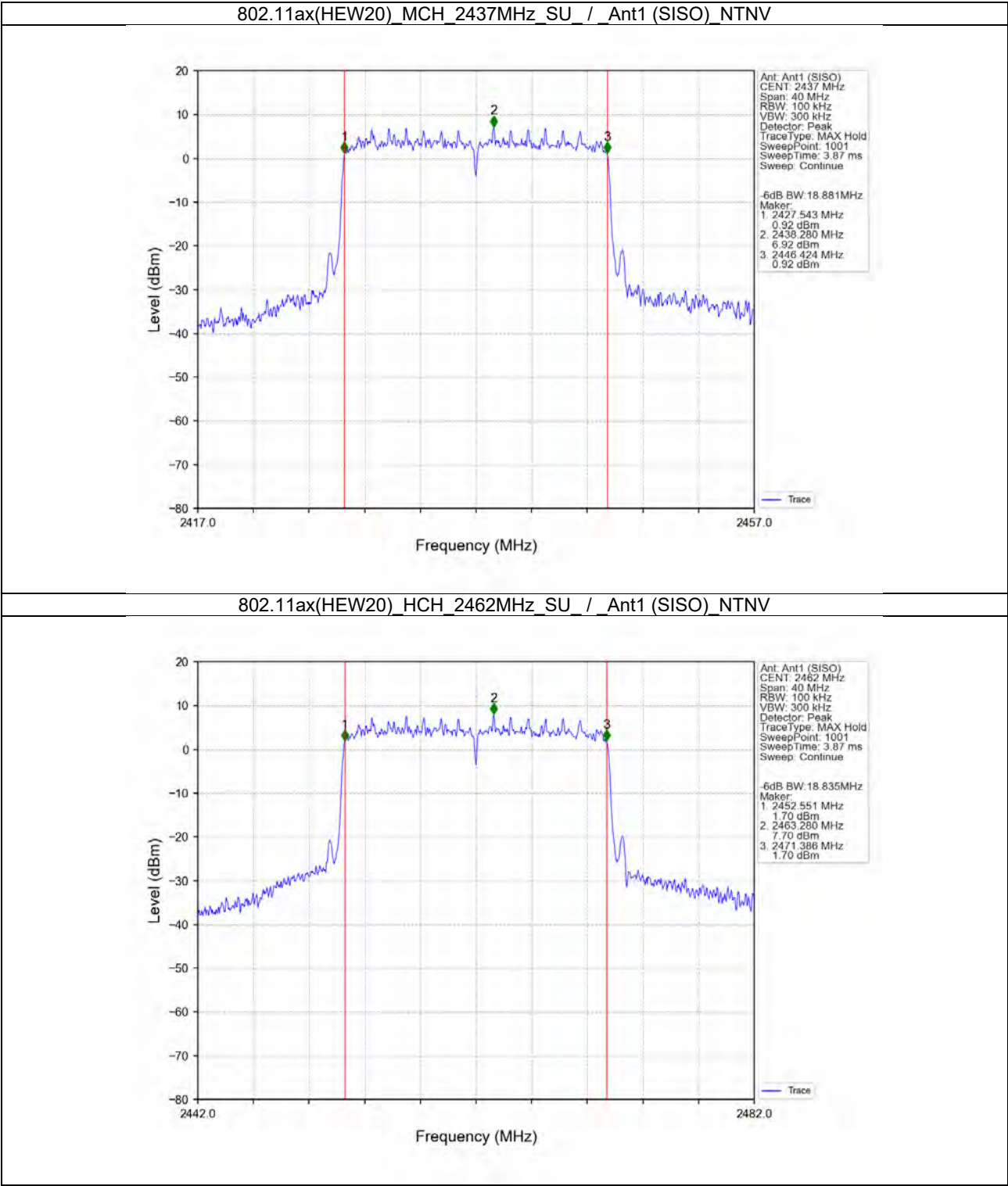
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3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum Peak Conducted Output Power (dBm)		Verdict
					ANT1	Limit	
802.11b	SISO	2412	/	/	19.61	<=30	Pass
		2437	/	/	19.62	<=30	Pass
		2462	/	/	18.97	<=30	Pass
802.11g	SISO	2412	/	/	26.54	<=30	Pass
		2437	/	/	26.71	<=30	Pass
		2462	/	/	26.57	<=30	Pass
802.11n (HT20)	SISO	2412	/	/	27.63	<=30	Pass
		2437	/	/	27.54	<=30	Pass
		2462	/	/	26.94	<=30	Pass
802.11ax (HEW20)	SISO	2412	RU26	Left	18.73	<=30	Pass
			RU52	Left	21.97	<=30	Pass
			RU106	Left	21.45	<=30	Pass
			SU	/	29.42	<=30	Pass
		2437	RU26	Left	21.84	<=30	Pass
			RU52	Left	24.38	<=30	Pass
			RU106	Left	22.91	<=30	Pass
			SU	/	29.06	<=30	Pass
		2462	RU26	Left	19.37	<=30	Pass
			RU52	Left	21.56	<=30	Pass
			RU106	Left	21.66	<=30	Pass
			SU	/	29.80	<=30	Pass

Note1: Antenna Gain: Ant1: 0.30dBi;



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4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/3kHz)		Verdict
					ANT1	Limit	
802.11b	SISO	2412	/	/	-5.92	<=8	Pass
		2437	/	/	-5.46	<=8	Pass
		2462	/	/	-5.25	<=8	Pass
802.11g	SISO	2412	/	/	-8.88	<=8	Pass
		2437	/	/	-8.77	<=8	Pass
		2462	/	/	-8.70	<=8	Pass
802.11n (HT20)	SISO	2412	/	/	-8.10	<=8	Pass
		2437	/	/	-8.13	<=8	Pass
		2462	/	/	-8.80	<=8	Pass
802.11ax (HEW20)	SISO	2412	RU26	Left	-8.57	<=8	Pass
			RU52	Left	-8.97	<=8	Pass
			RU106	Left	-9.52	<=8	Pass
			SU	/	-8.34	<=8	Pass
		2437	RU26	Left	-9.64	<=8	Pass
			RU52	Left	-9.54	<=8	Pass
			RU106	Left	-9.87	<=8	Pass
			SU	/	-8.74	<=8	Pass
		2462	RU26	Left	-9.96	<=8	Pass
			RU52	Left	-9.84	<=8	Pass
			RU106	Left	-9.90	<=8	Pass
			SU	/	-8.02	<=8	Pass

Note1: Antenna Gain: Ant1: 0.30dBi;

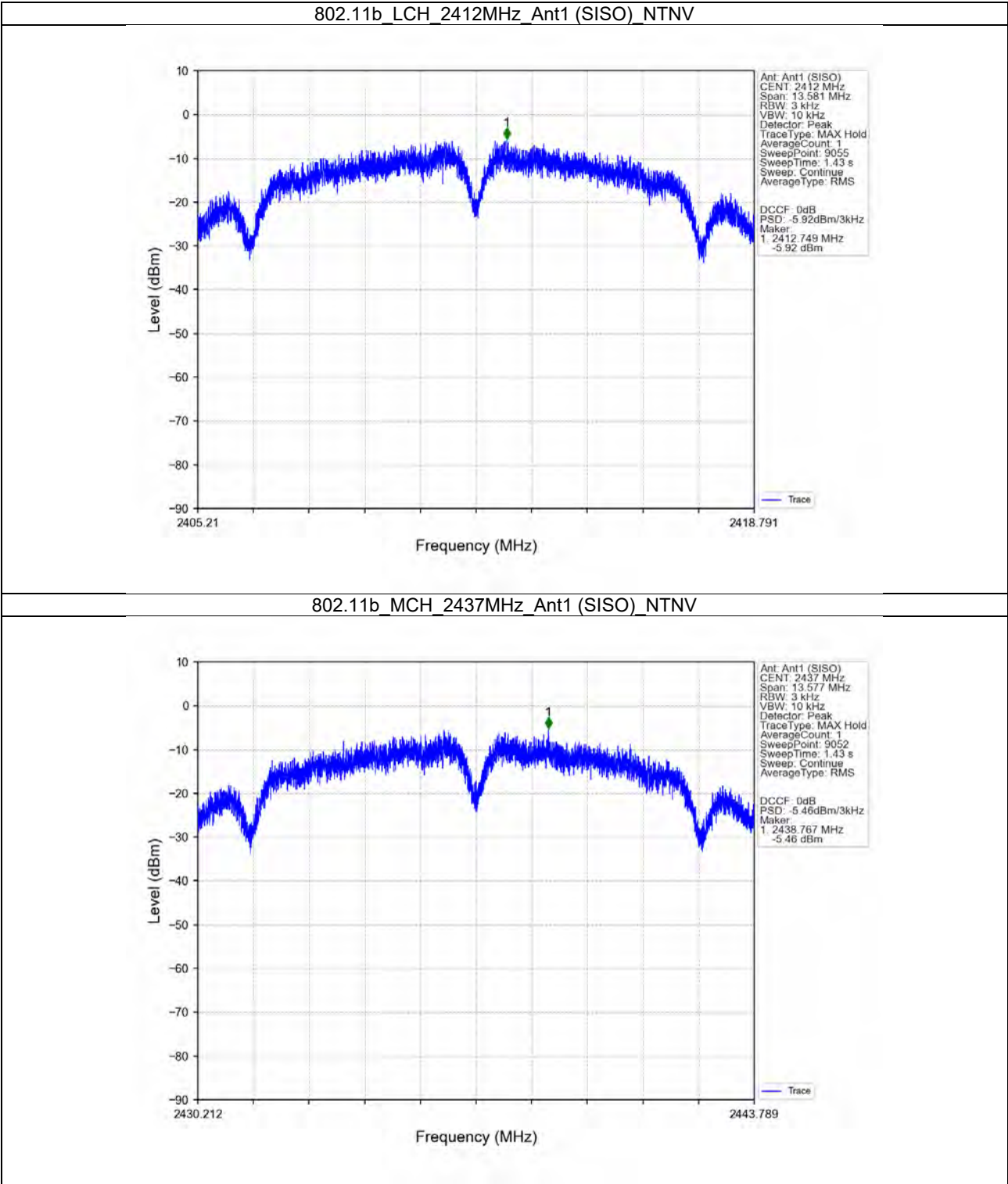


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4.2 Test Graph

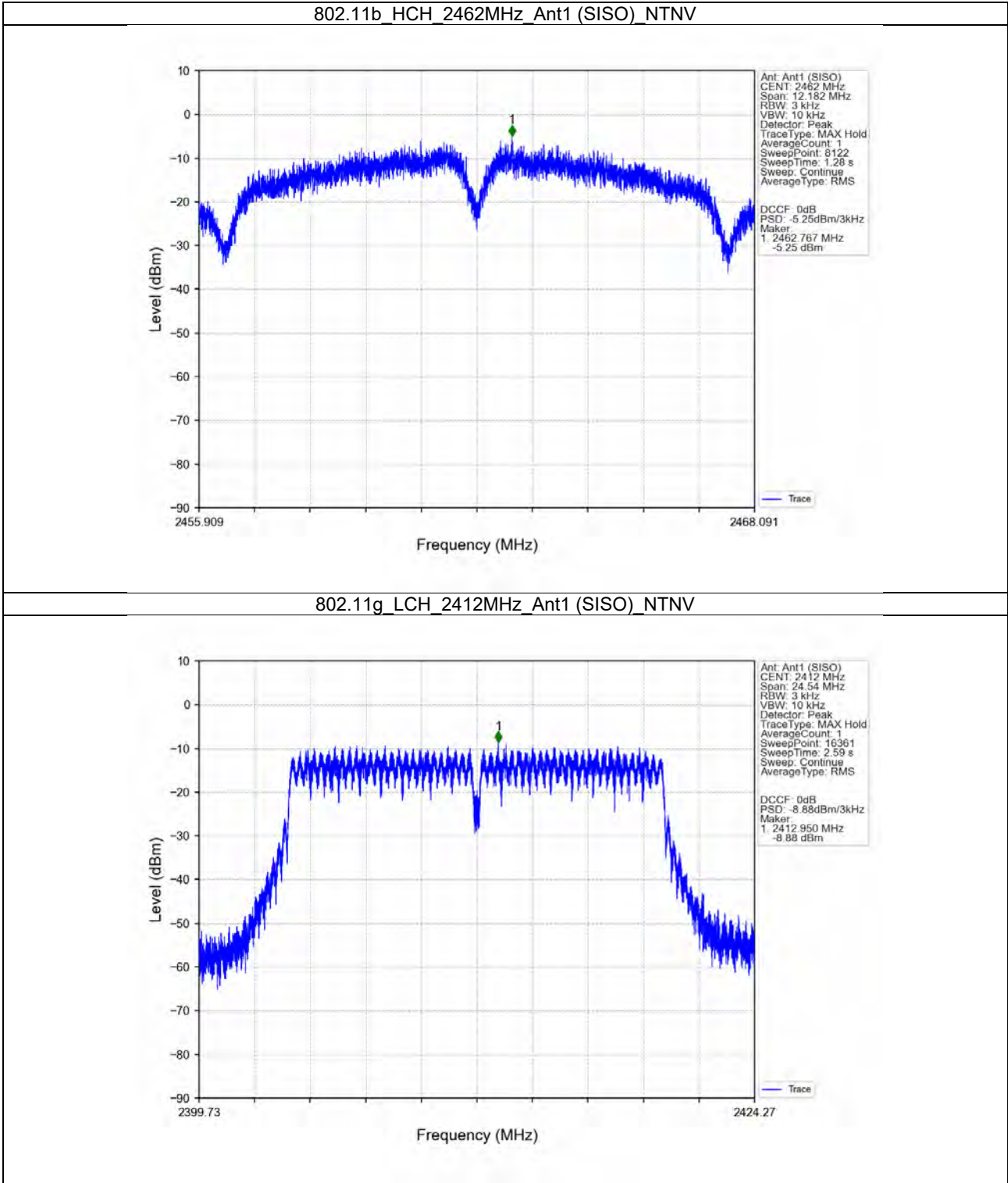
4.2.1 PSD





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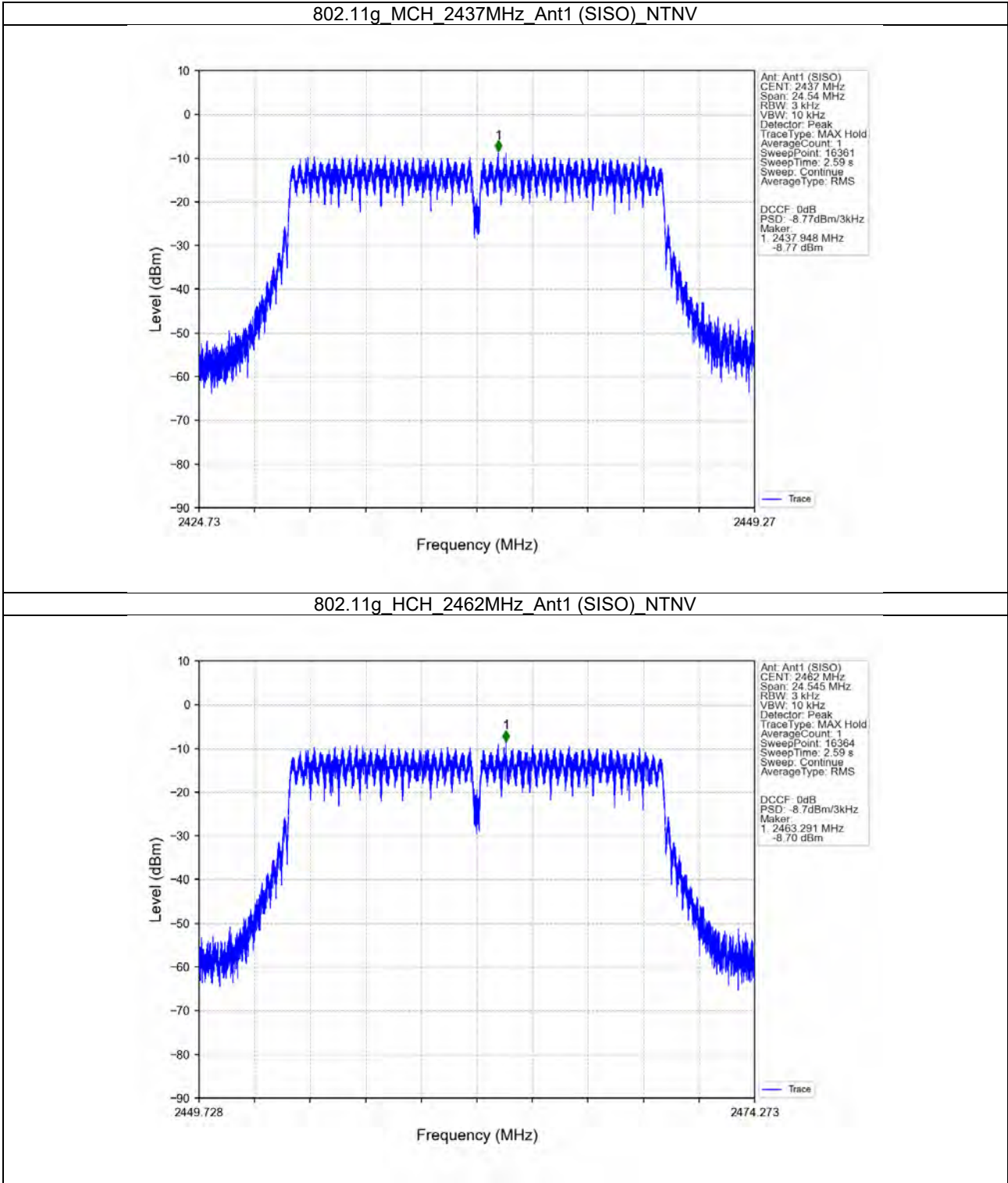
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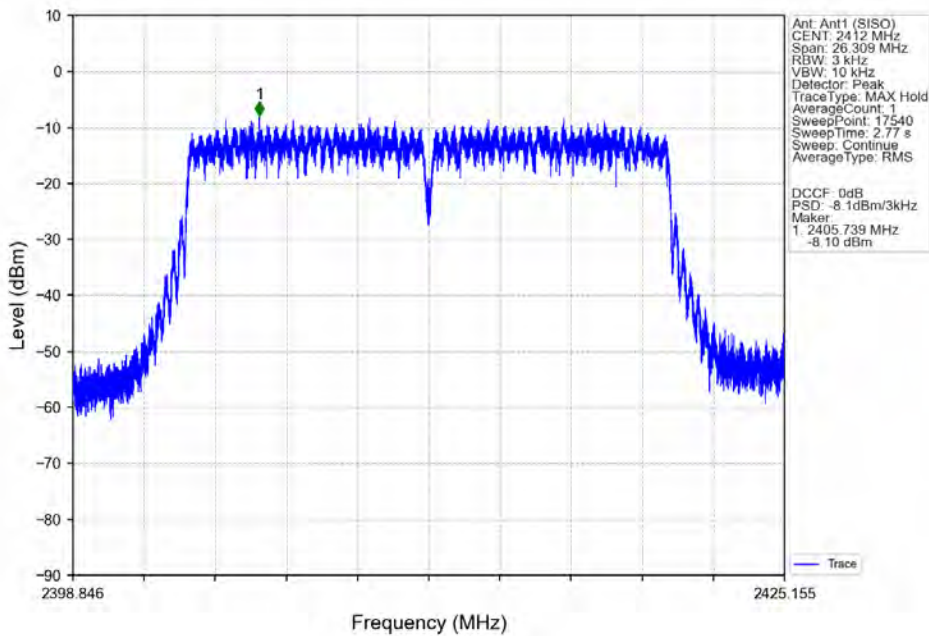




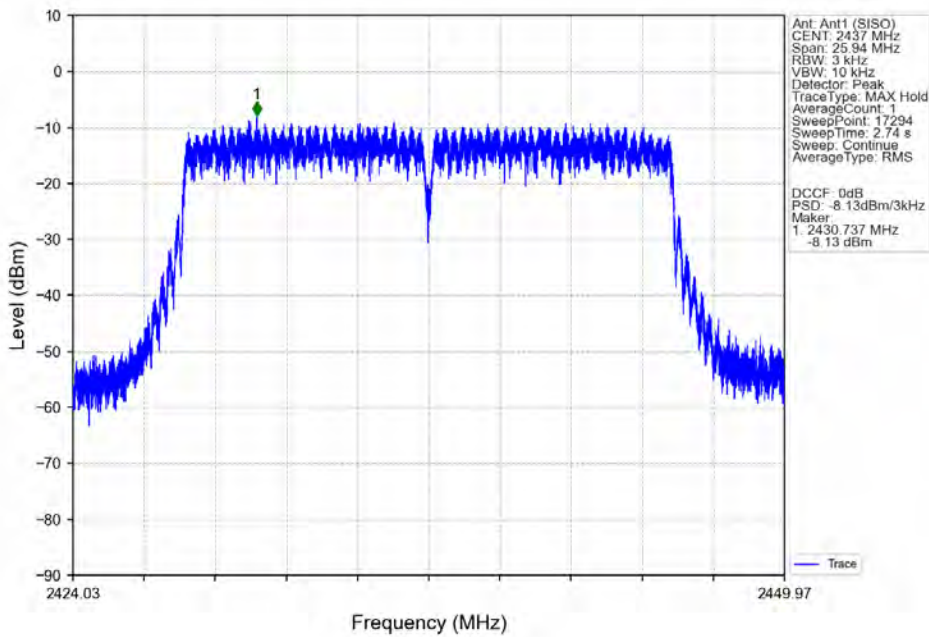
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

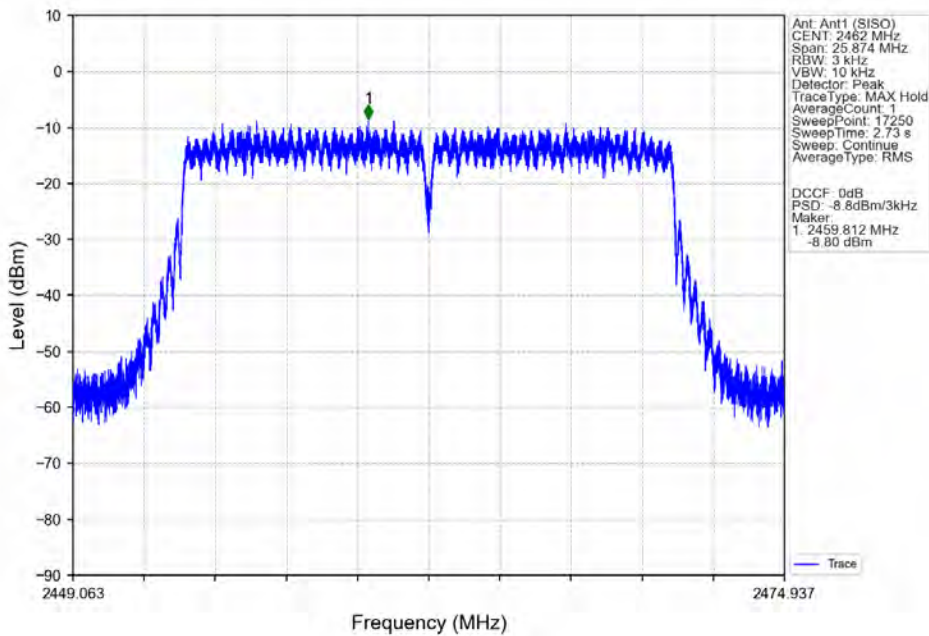




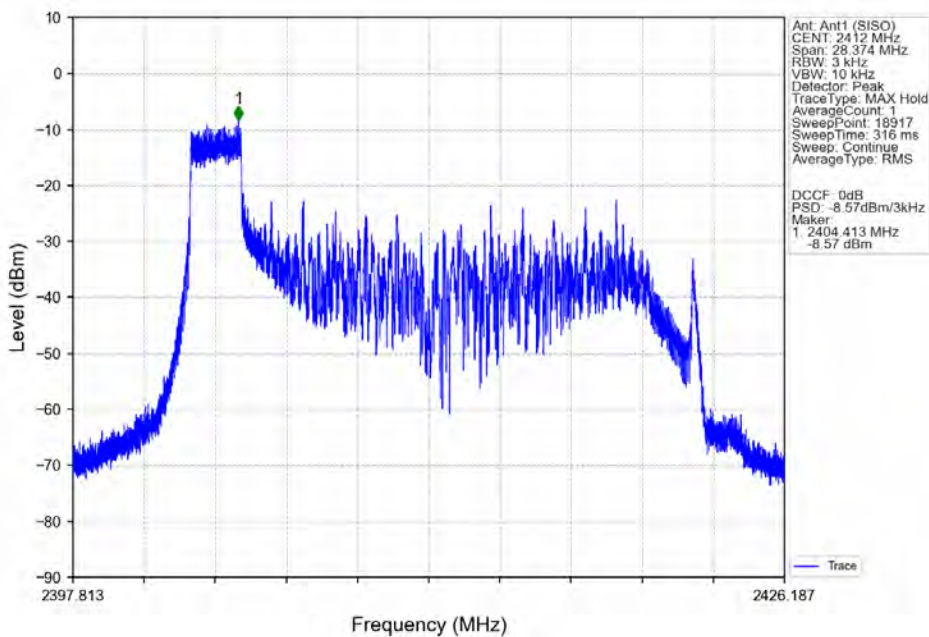
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11ax(HEW20)_LCH_2412MHz_RU26_Left_Ant1 (SISO)_NTNV

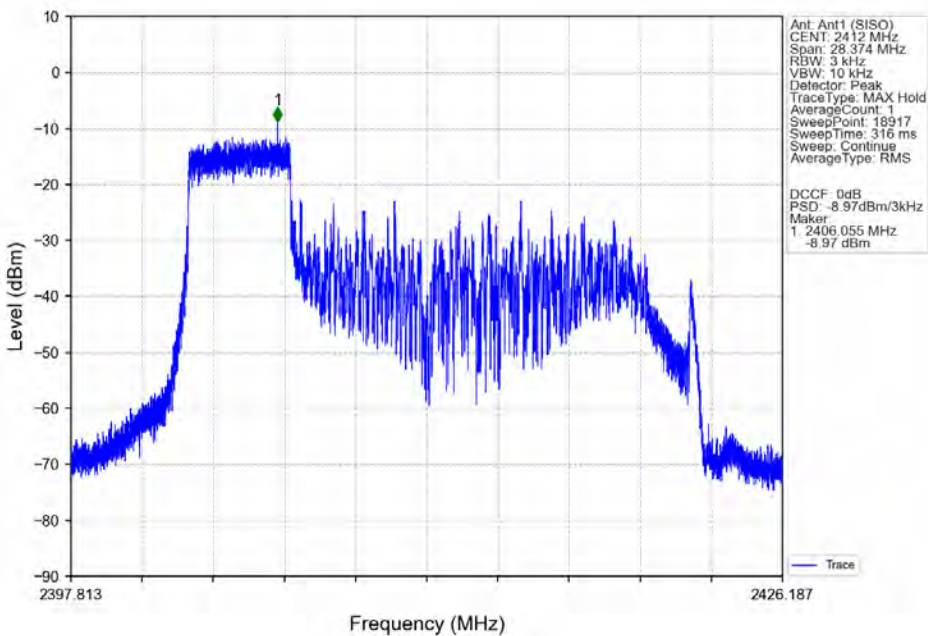




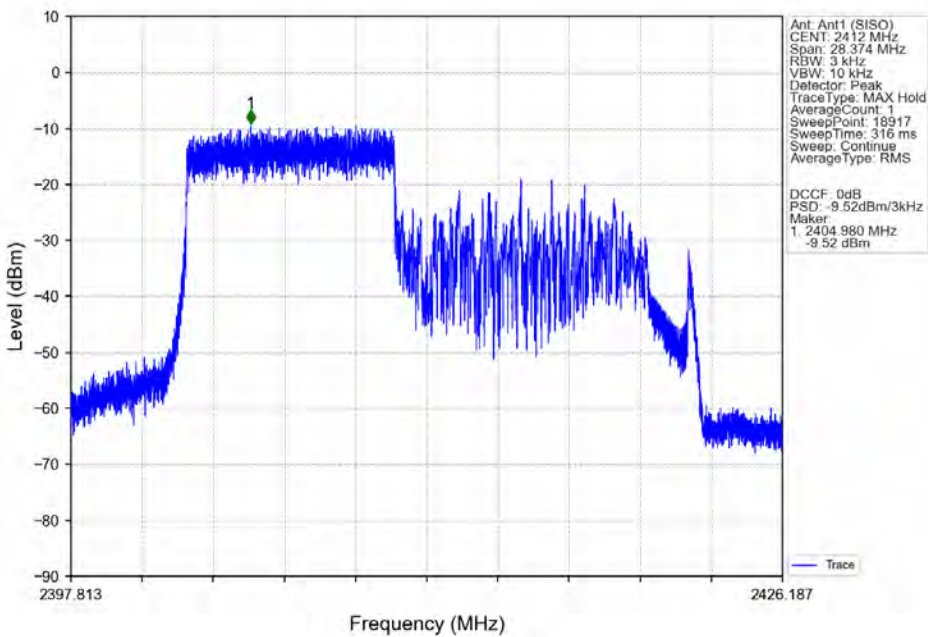
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802.11ax(HEW20)_LCH_2412MHz_RU52_Left_Ant1 (SISO)_NTNV



802.11ax(HEW20)_LCH_2412MHz_RU106_Left_Ant1 (SISO)_NTNV

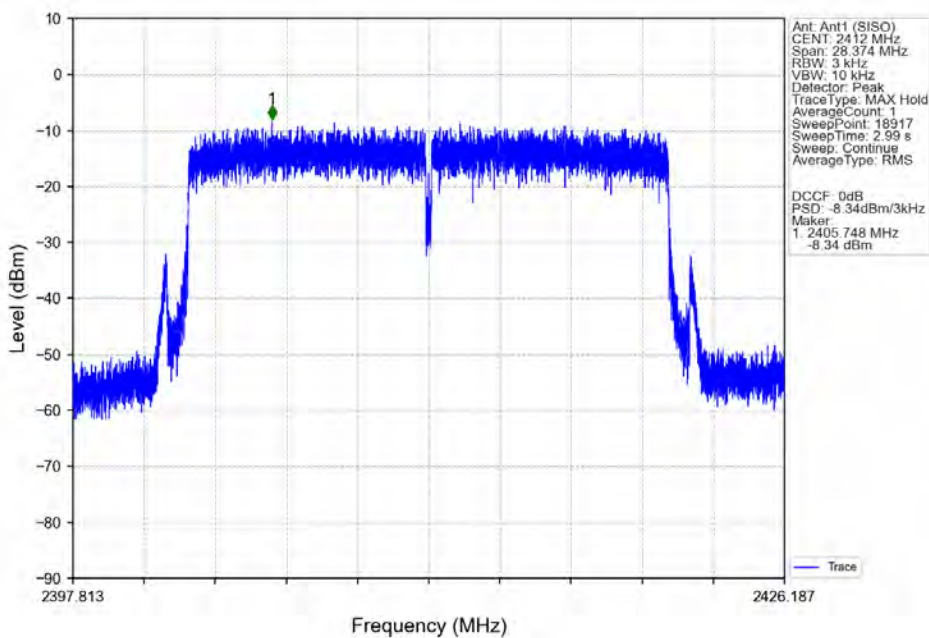




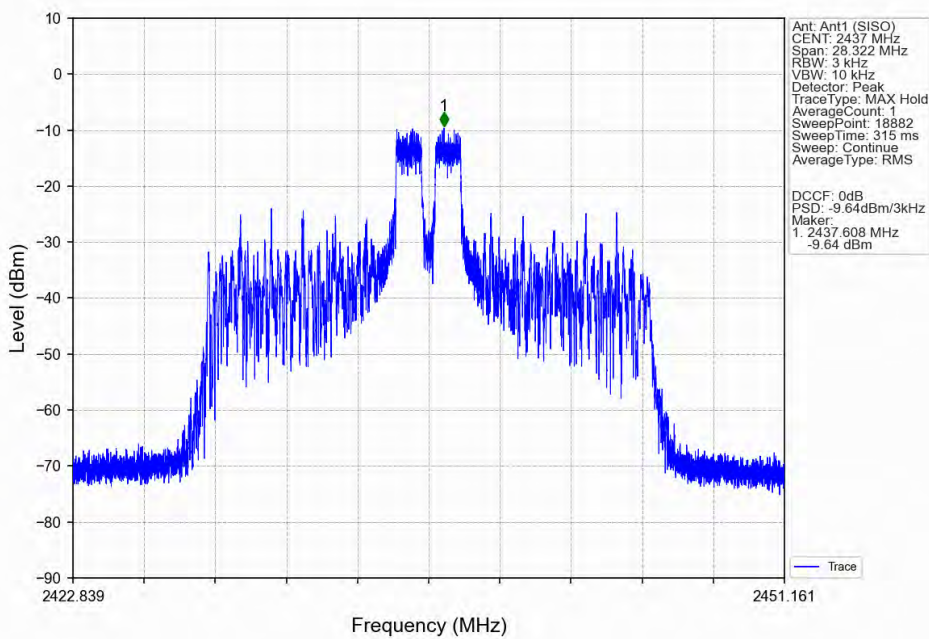
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802.11ax(HEW20)_LCH_2412MHz_SU_/_Ant1 (SISO)_NTNV



802.11ax(HEW20)_MCH_2437MHz_RU26_Left_Ant1 (SISO)_NTNV

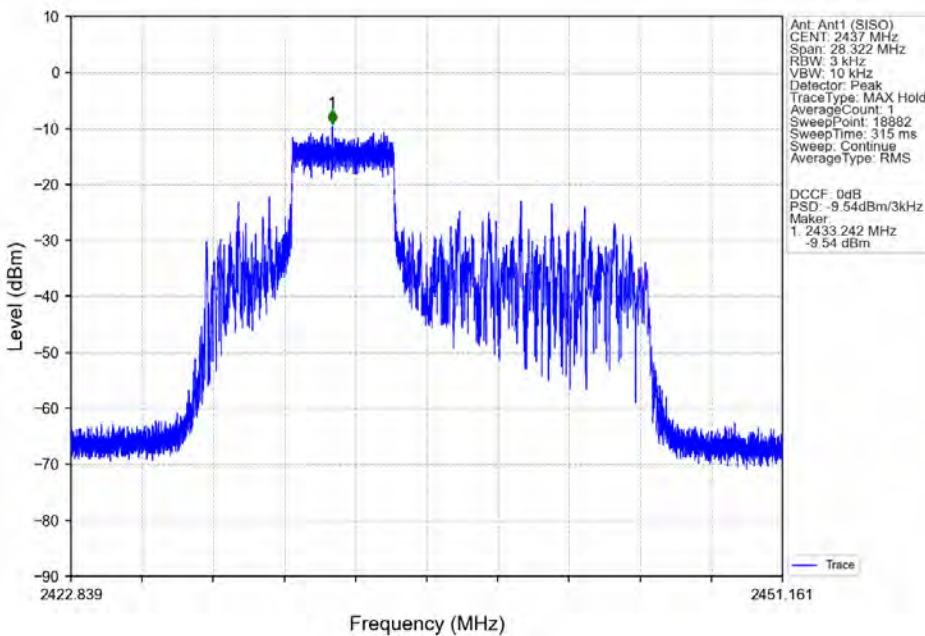




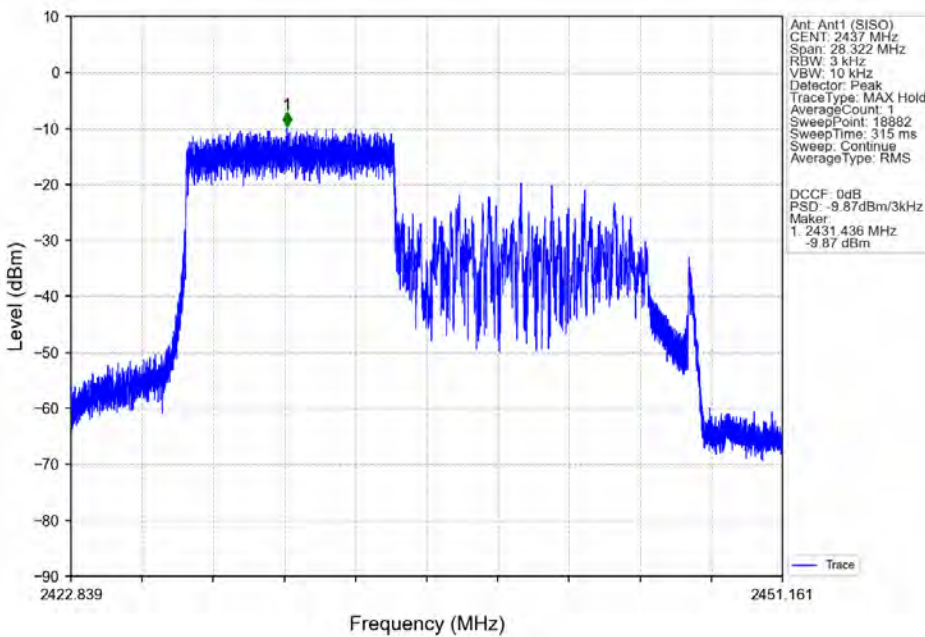
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802.11ax(HEW20)_MCH_2437MHz_RU52_Left_Ant1 (SISO)_NTNV



802.11ax(HEW20)_MCH_2437MHz_RU106_Left_Ant1 (SISO)_NTNV

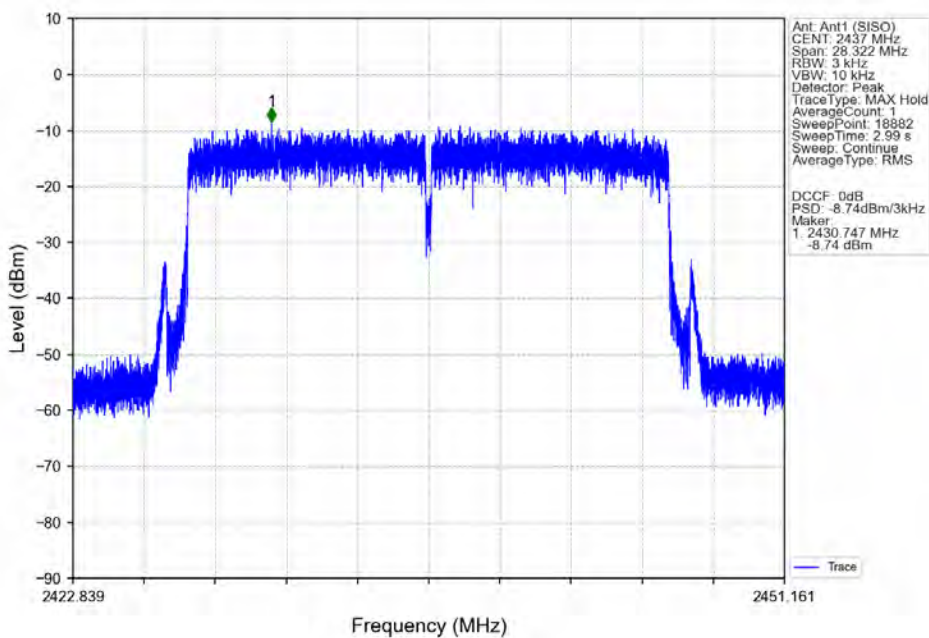




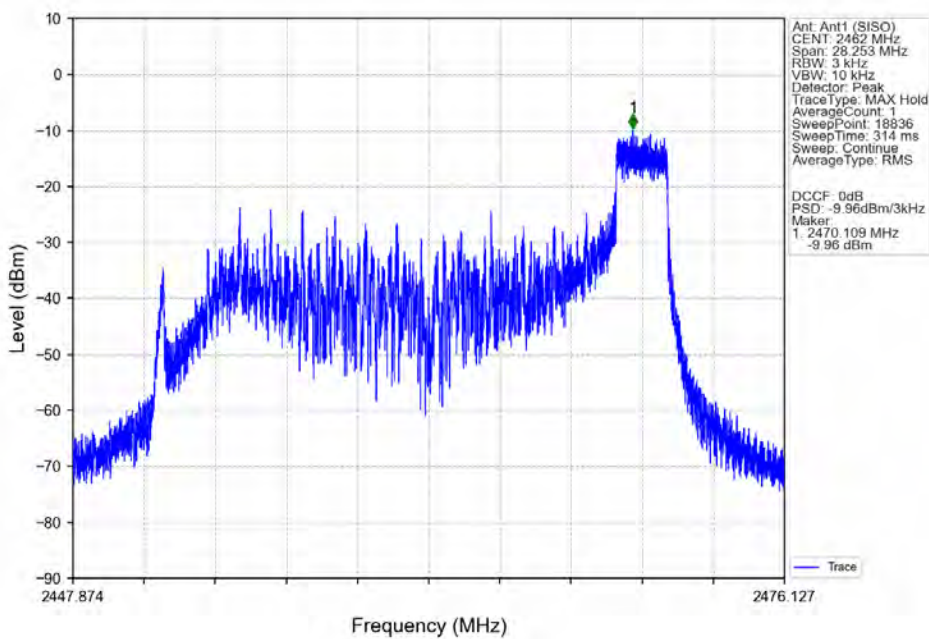
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802.11ax(HEW20)_MCH_2437MHz_SU_ / _Ant1 (SISO)_NTNV



802.11ax(HEW20)_HCH_2462MHz_RU26_Left_Ant1 (SISO)_NTNV

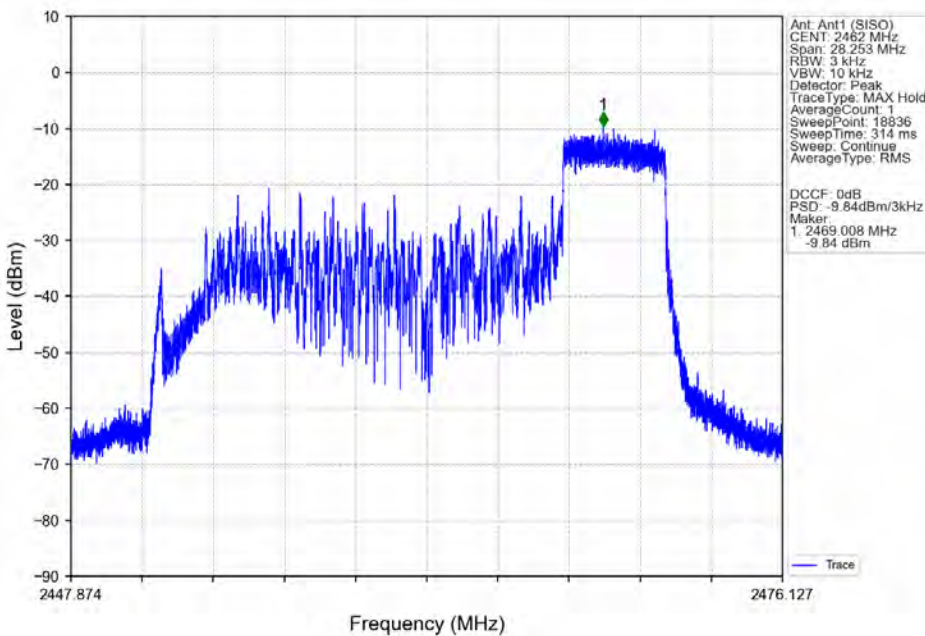




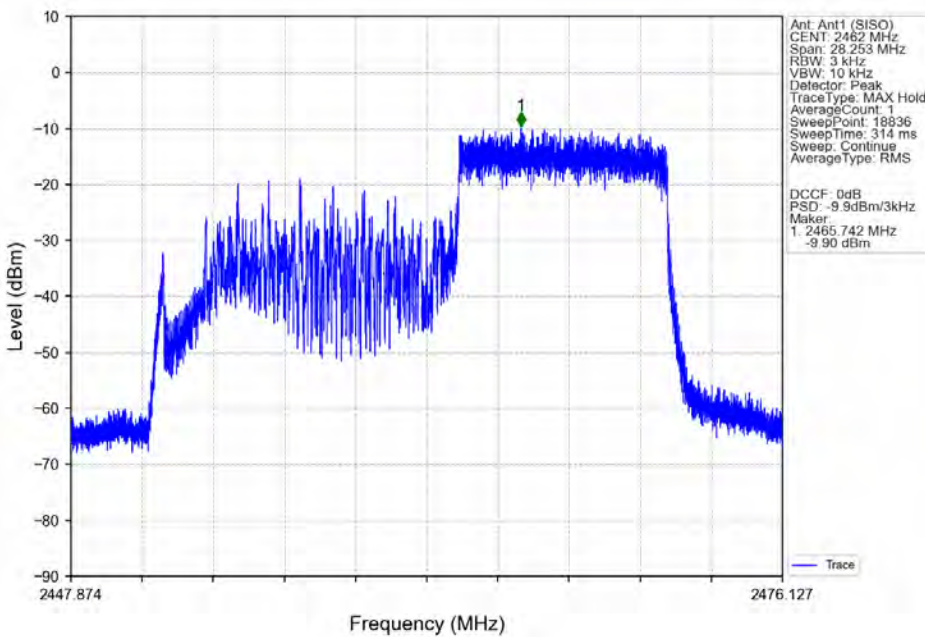
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802.11ax(HEW20)_HCH_2462MHz_RU52_Left_Ant1 (SISO)_NTNV



802.11ax(HEW20)_HCH_2462MHz_RU106_Left_Ant1 (SISO)_NTNV

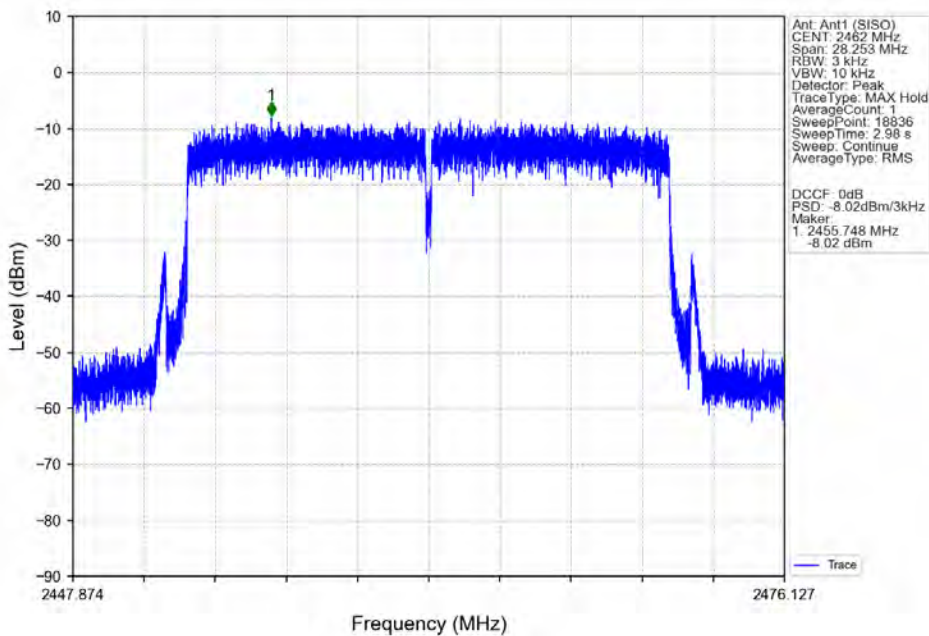




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802.11ax(HEW20)_HCH_2462MHz_SU_ / _Ant1 (SISO)_NTNV





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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	Level of Reference (dBm)
802.11b	SISO	2412	/	/	1	8.85
		2437	/	/	1	9.01
		2462	/	/	1	8.75
802.11g	SISO	2412	/	/	1	7.74
		2437	/	/	1	7.86
		2462	/	/	1	7.60
802.11n (HT20)	SISO	2412	/	/	1	7.69
		2437	/	/	1	7.95
		2462	/	/	1	7.40
802.11ax (HEW20)	SISO	2412	SU	/	1	7.38
		2437	SU	/	1	6.88
		2462	SU	/	1	7.73

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.

5.1.2 CSE

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	/	/	1	9.01	-10.99	Pass
		2437	/	/	1	9.01	-10.99	Pass
		2462	/	/	1	9.01	-10.99	Pass
802.11g	SISO	2412	/	/	1	7.86	-12.14	Pass
		2437	/	/	1	7.86	-12.14	Pass
		2462	/	/	1	7.86	-12.14	Pass
802.11n (HT20)	SISO	2412	/	/	1	7.95	-12.05	Pass
		2437	/	/	1	7.95	-12.05	Pass
		2462	/	/	1	7.95	-12.05	Pass
802.11ax (HEW20)	SISO	2412	SU	/	1	7.73	-12.27	Pass
		2437	SU	/	1	7.73	-12.27	Pass
		2462	SU	/	1	7.73	-12.27	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.

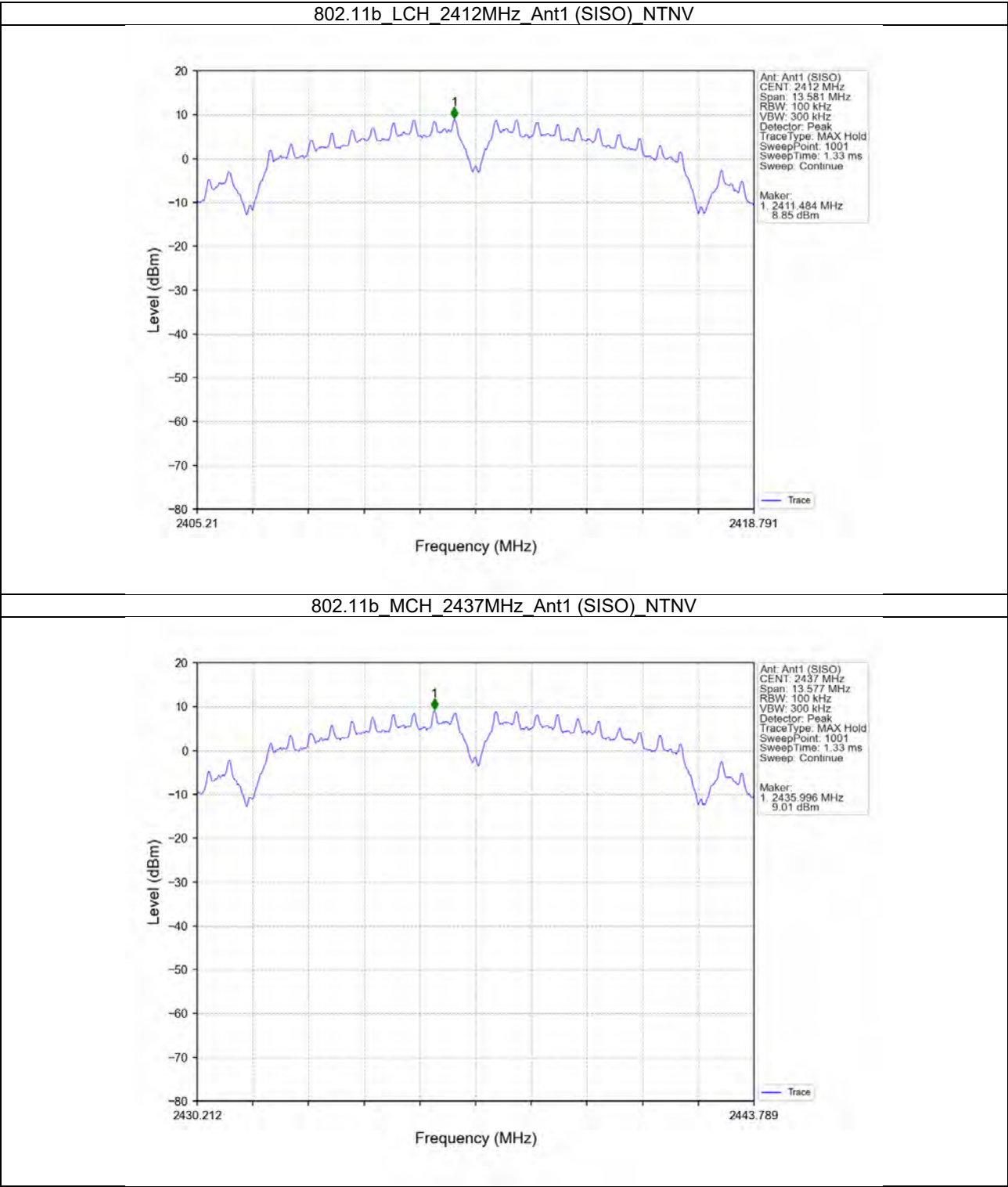


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5.2 Test Graph

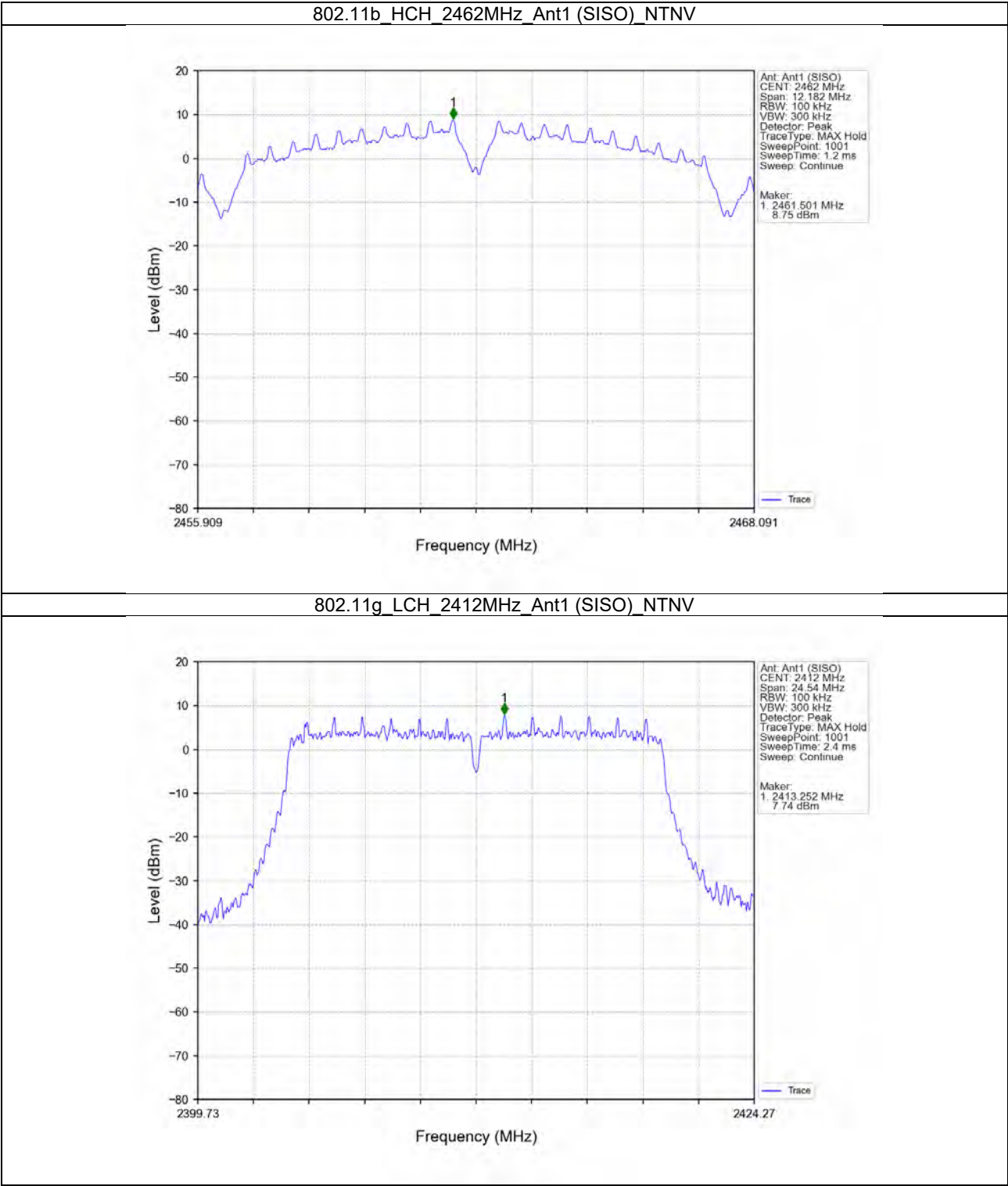
5.2.1 Ref





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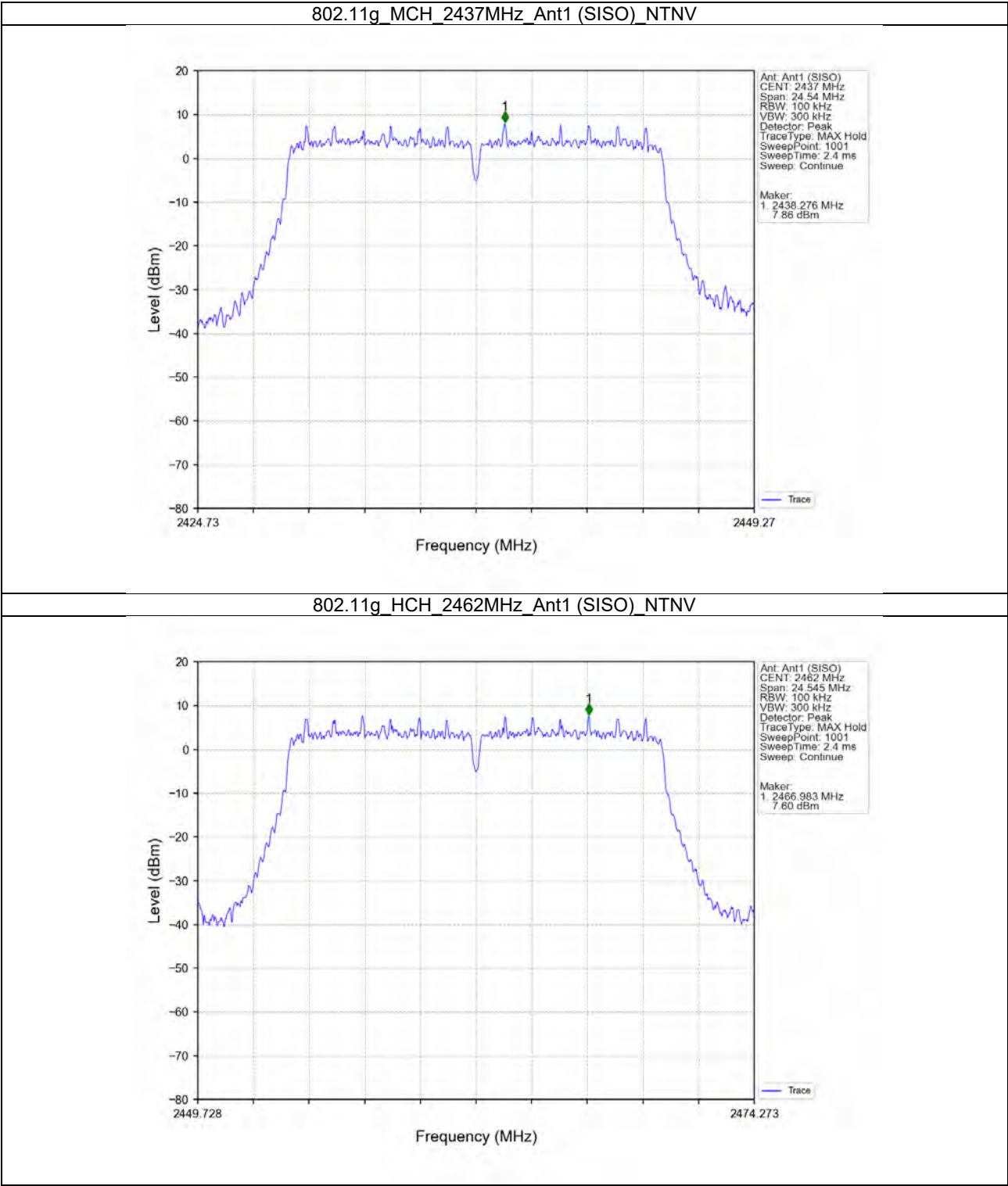
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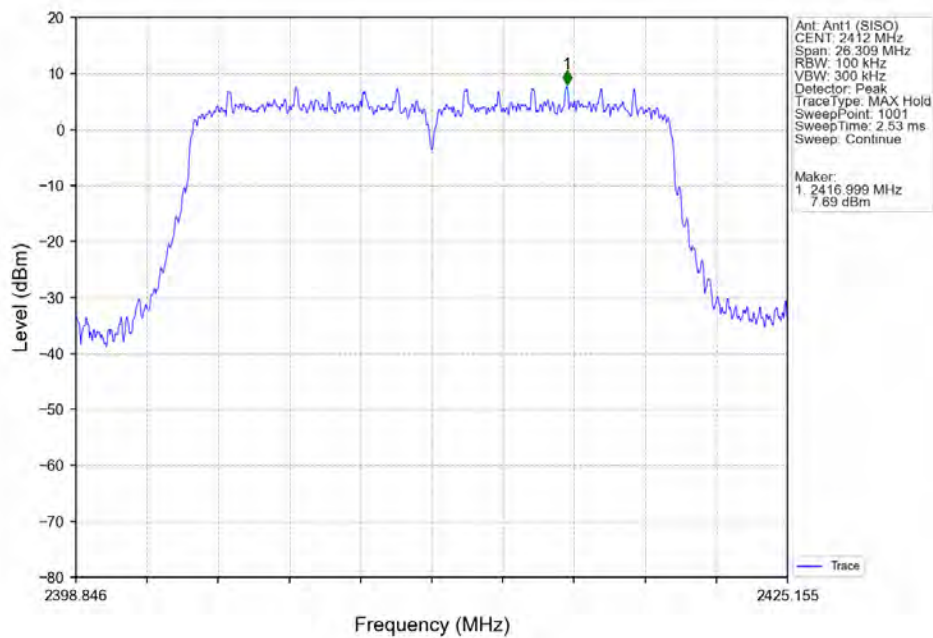




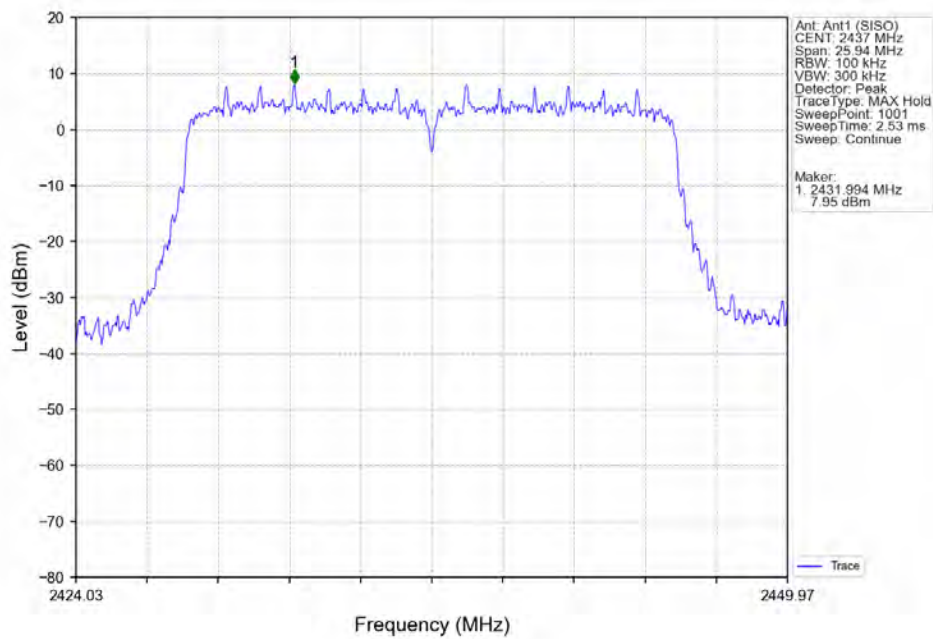
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



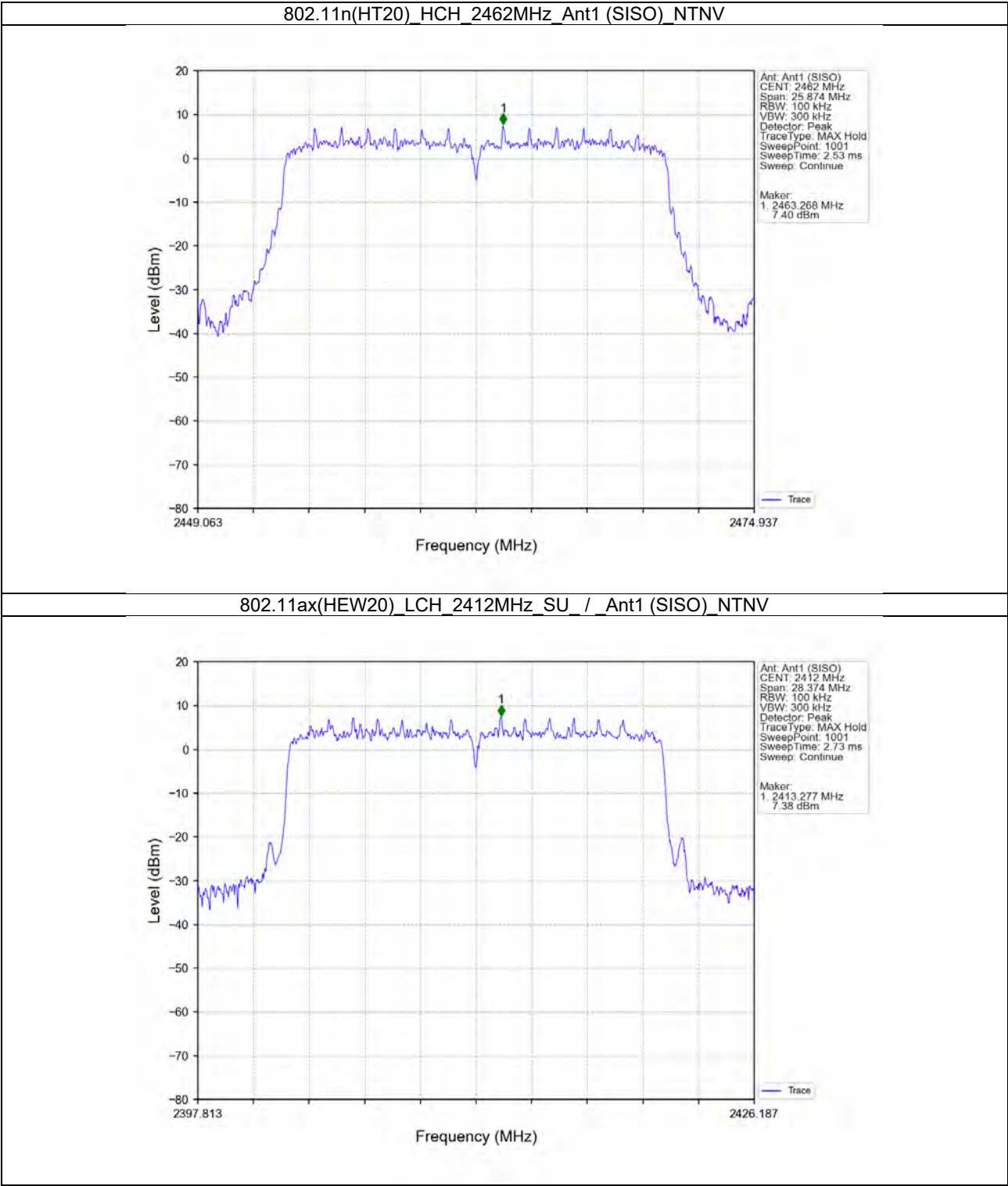
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

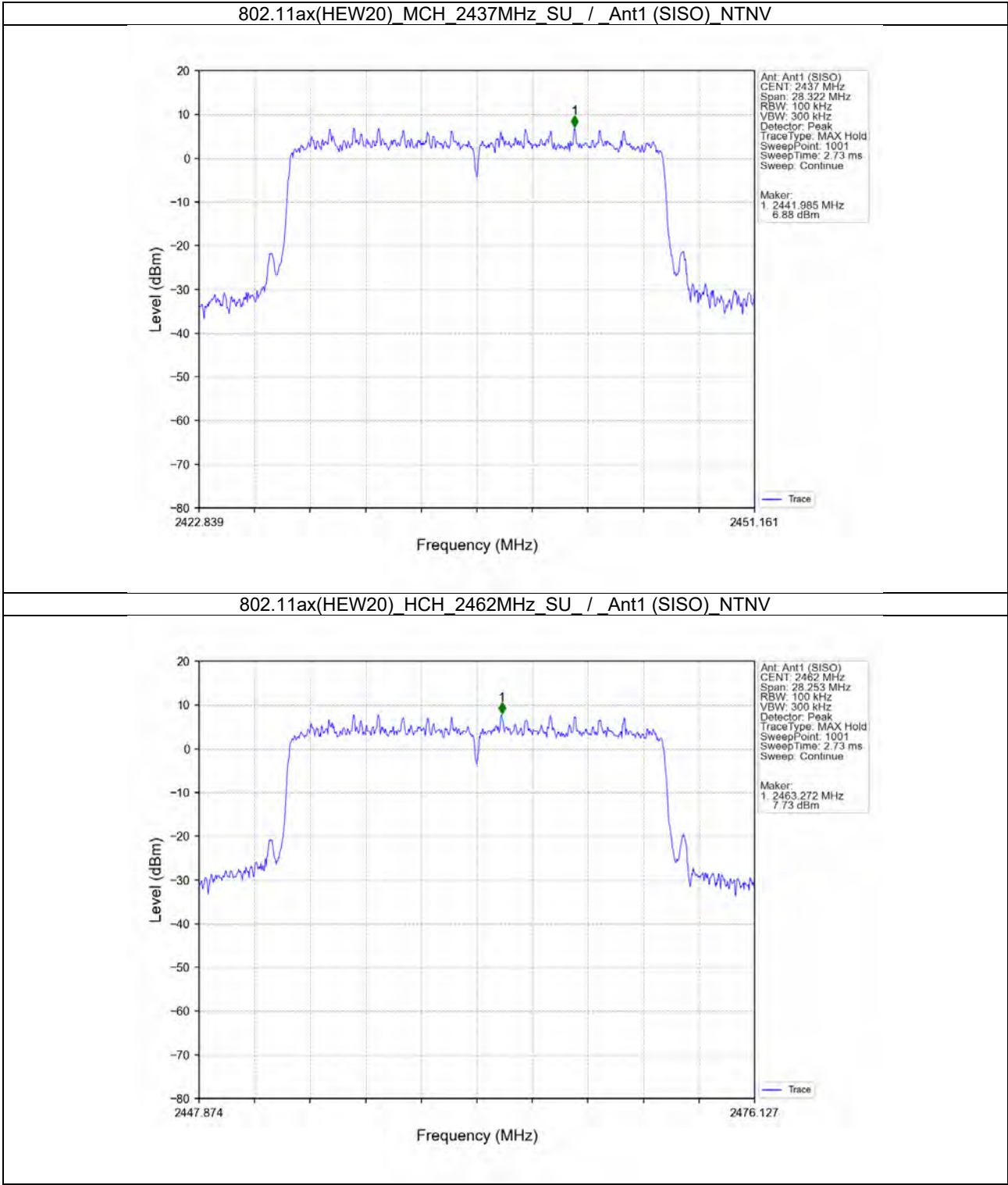
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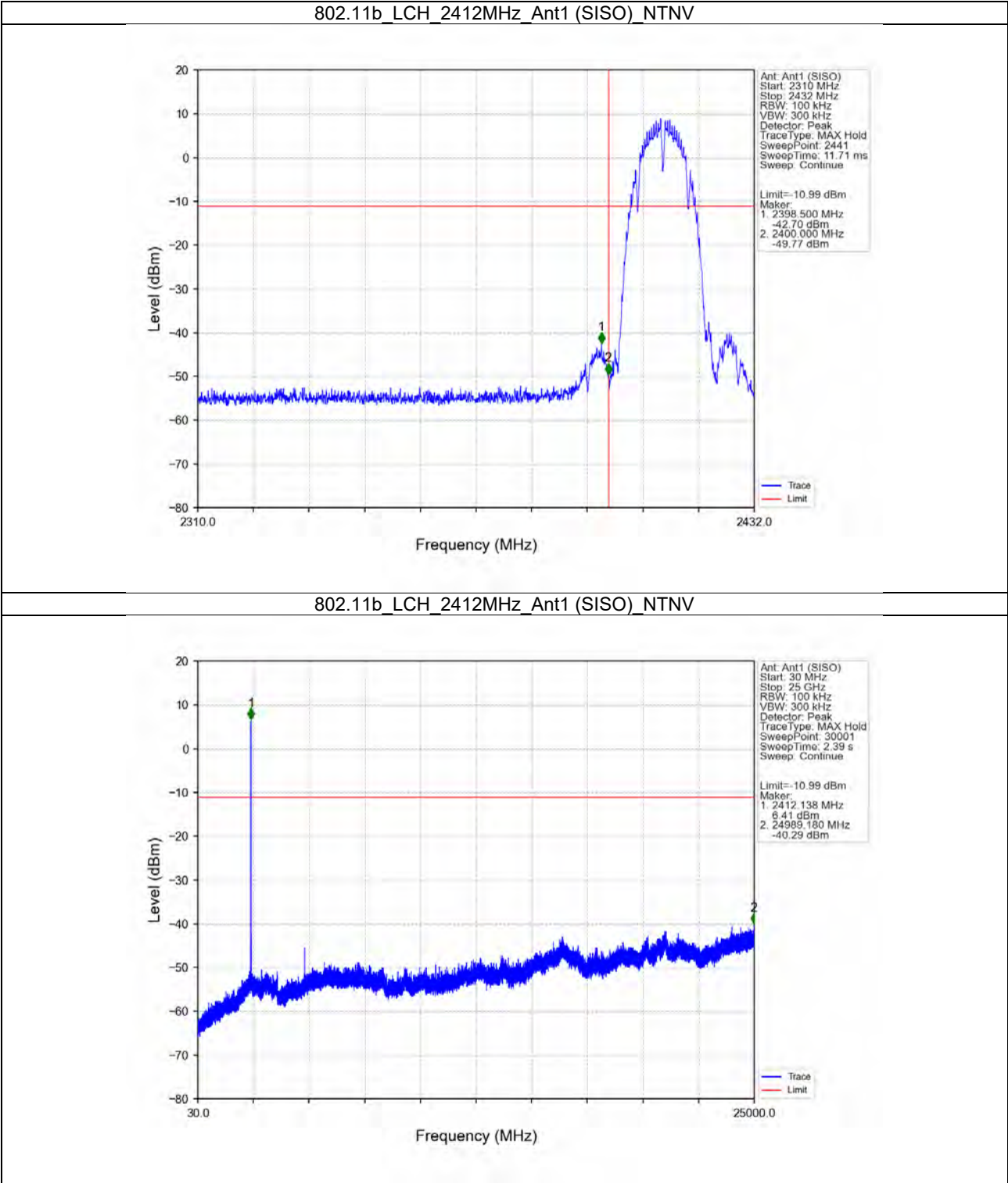




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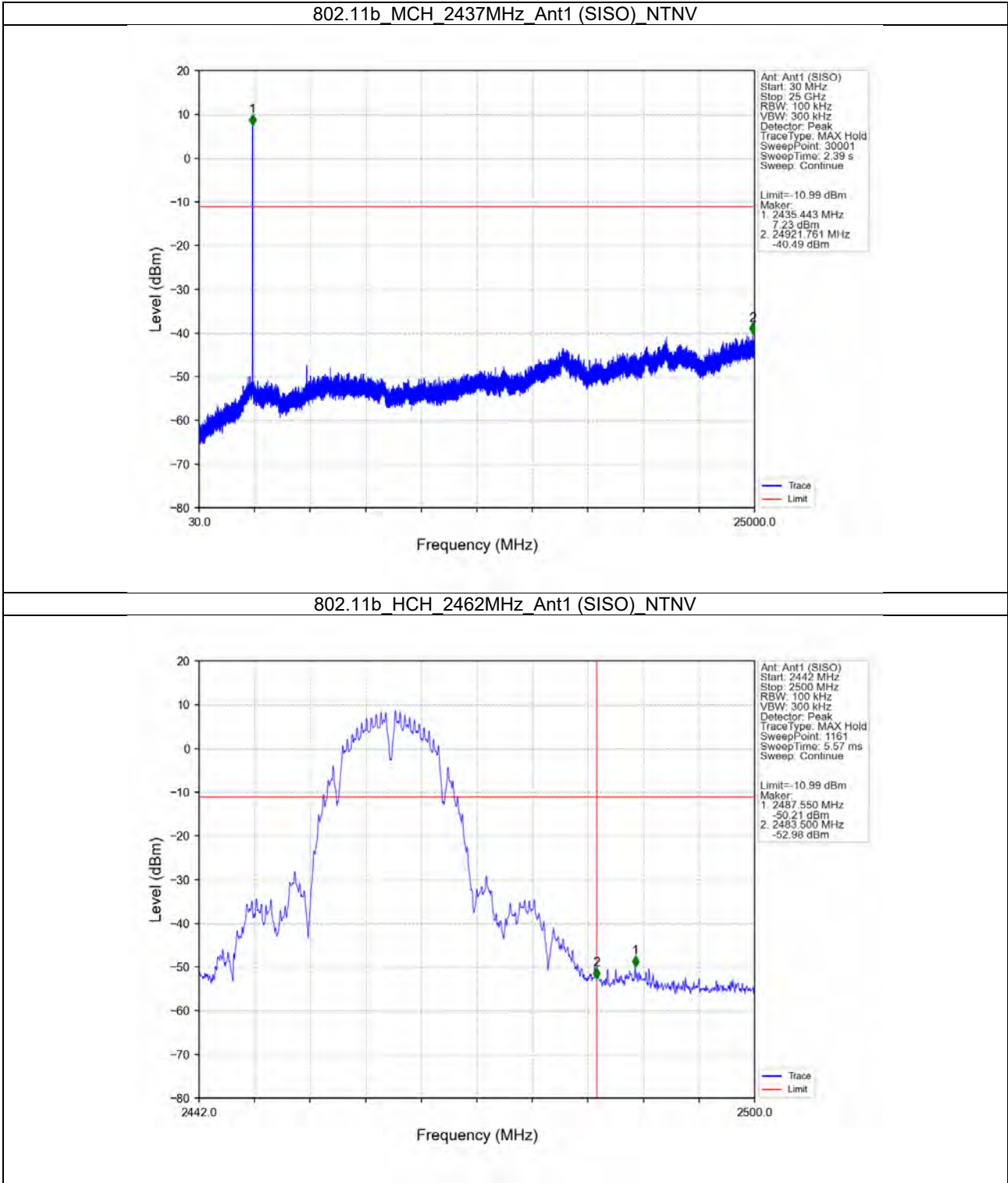
5.2.2 CSE





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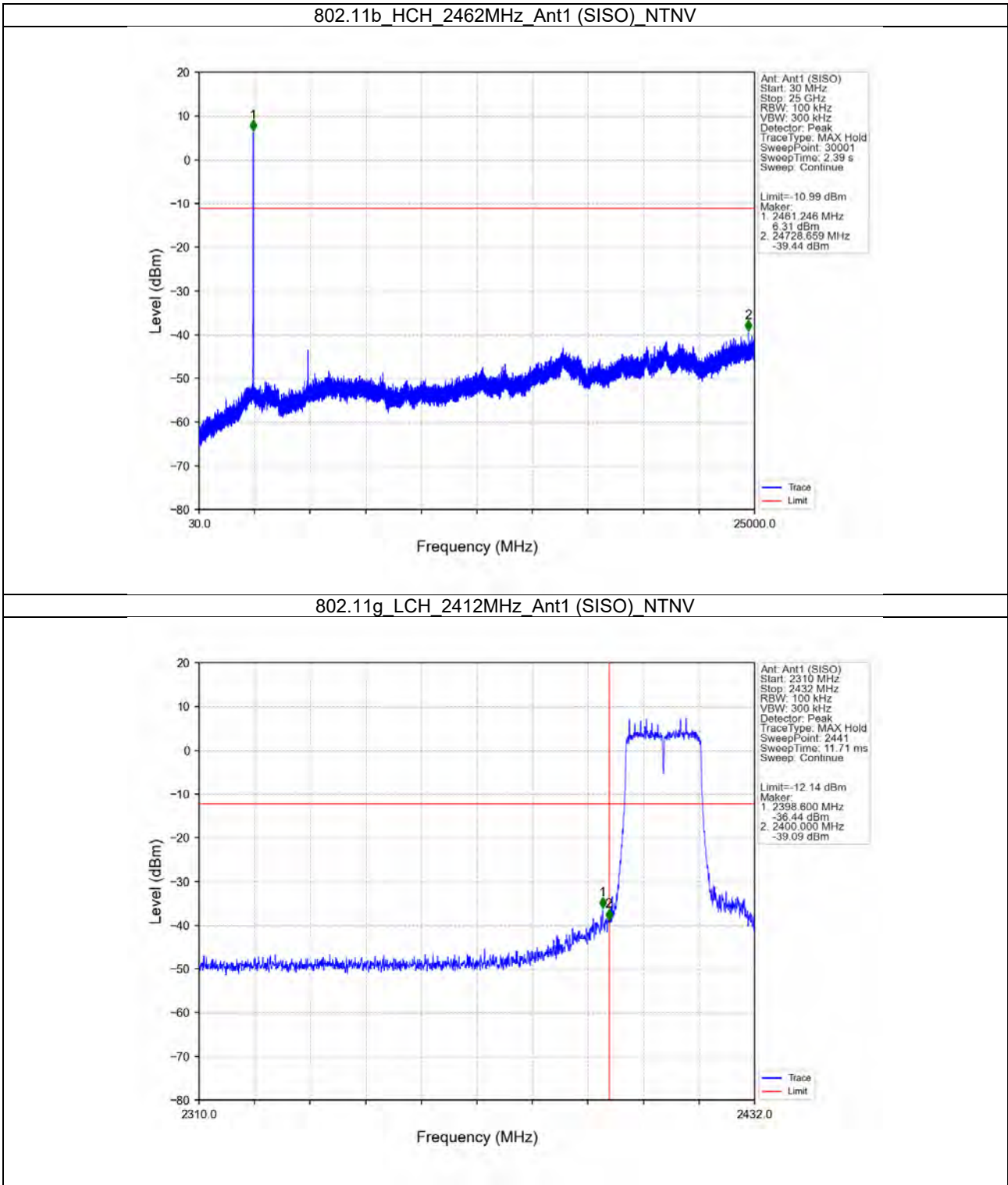
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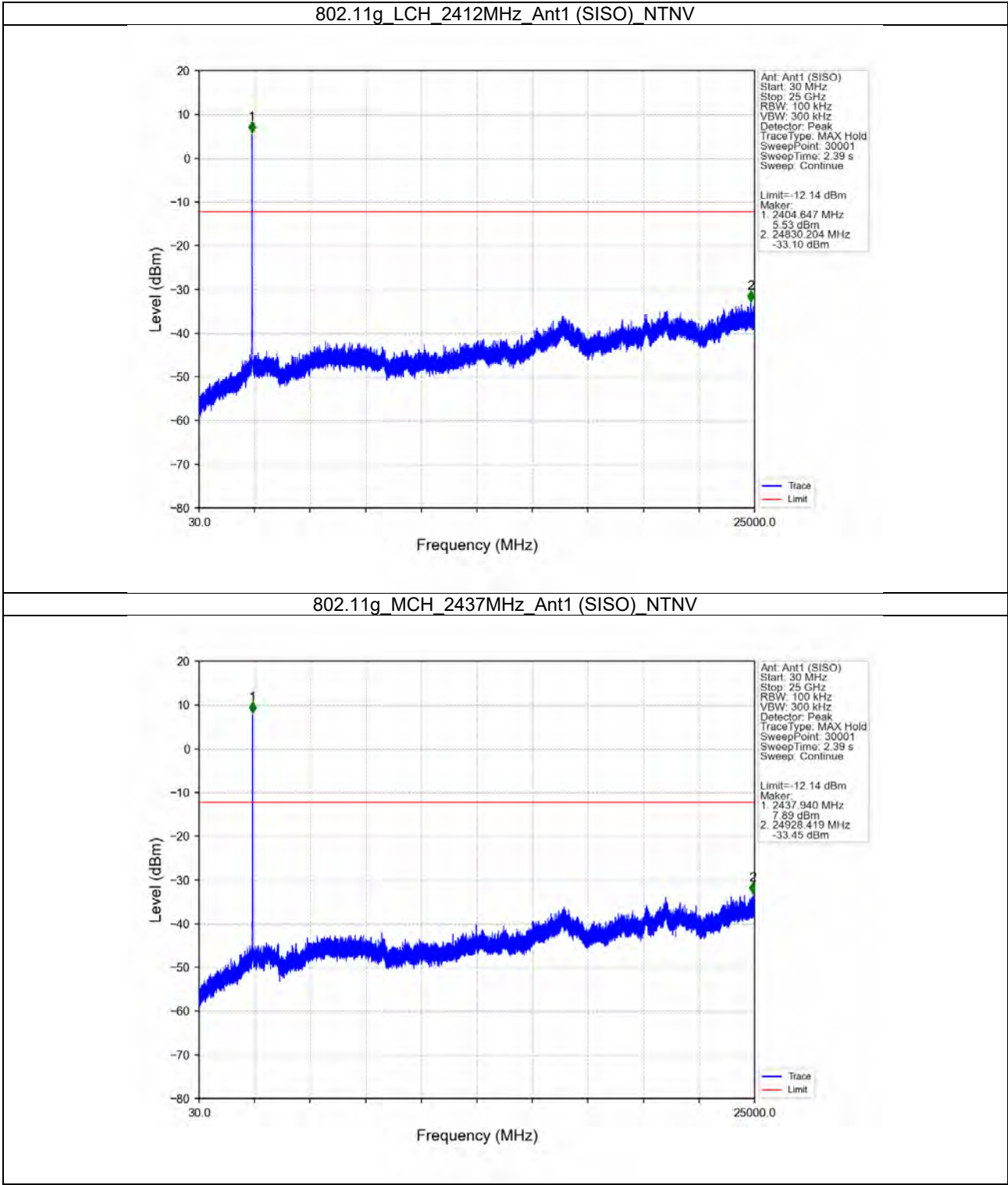
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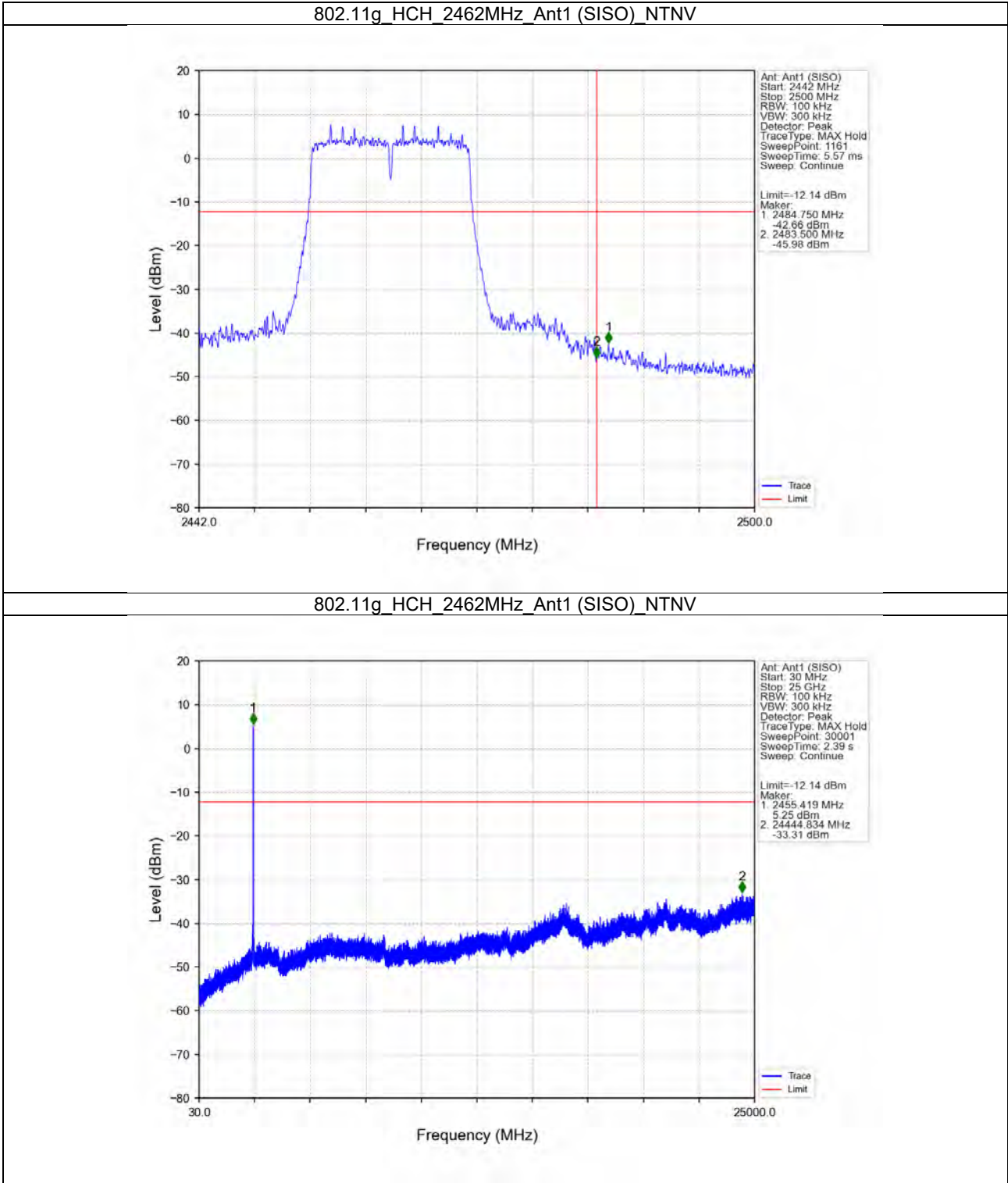
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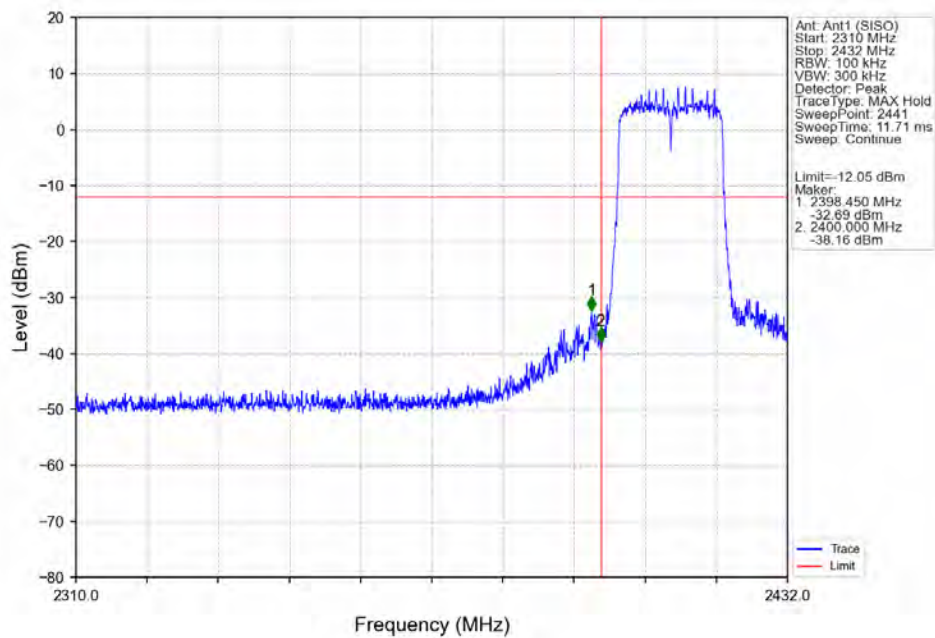




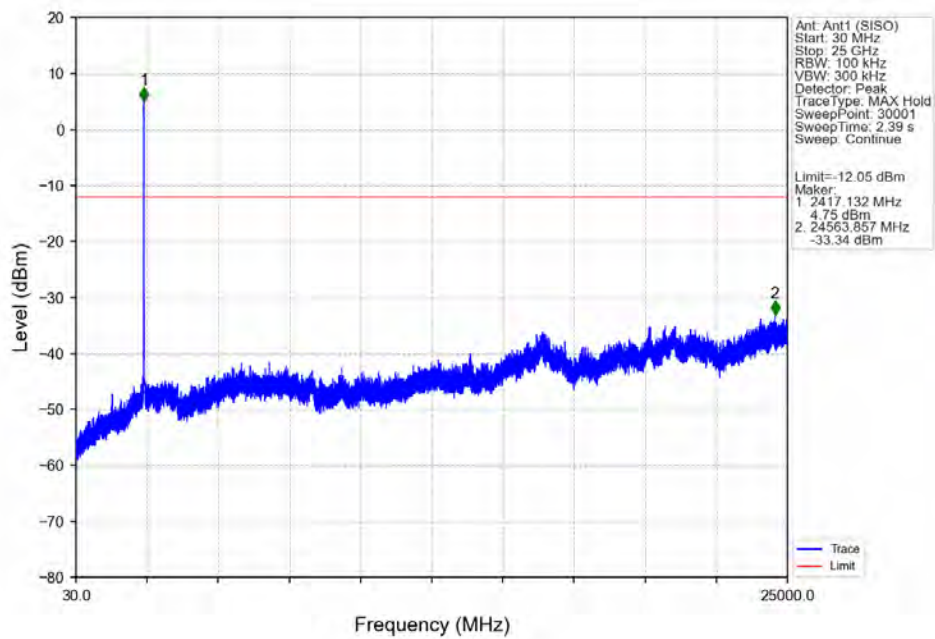
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

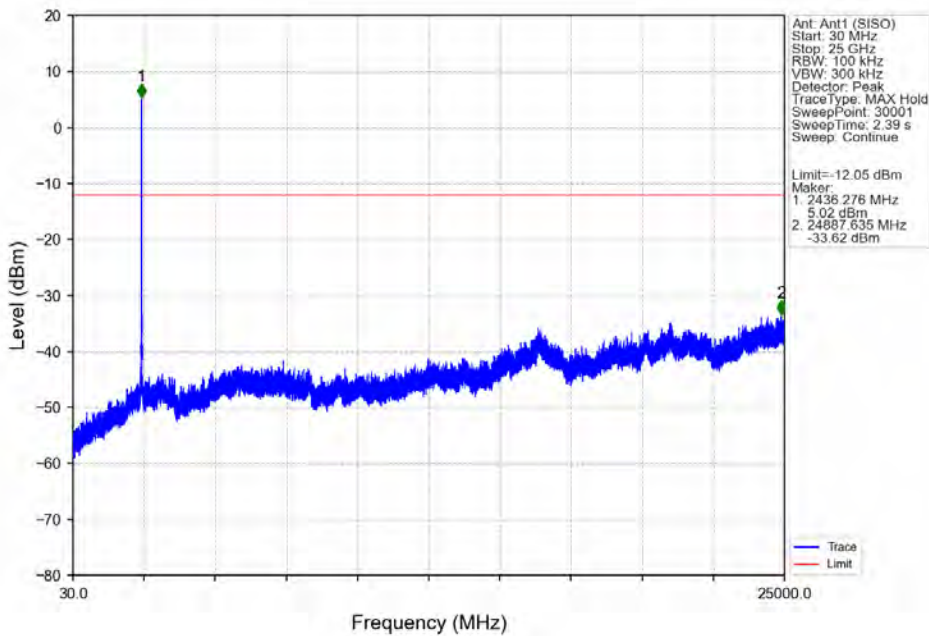




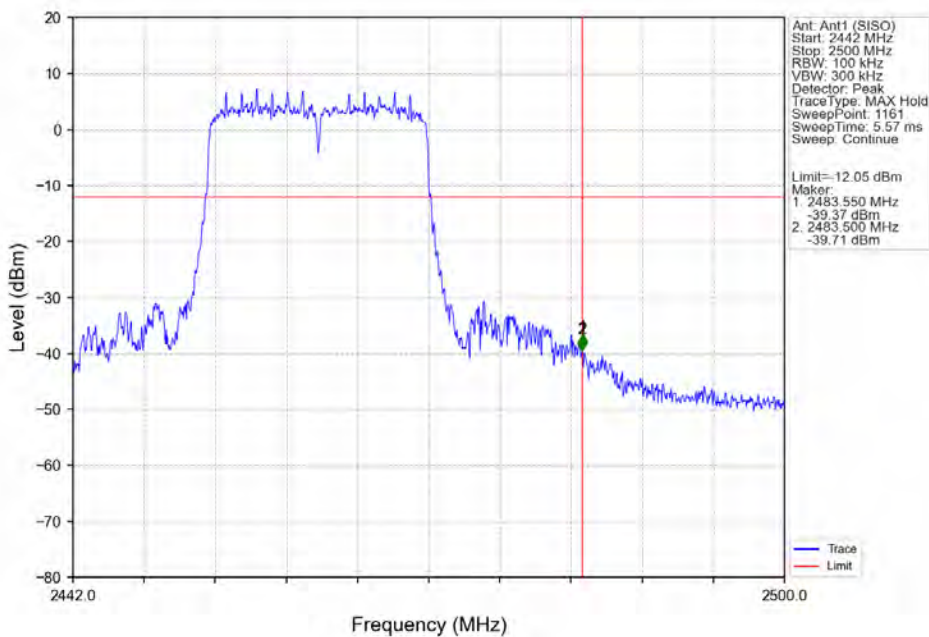
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802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



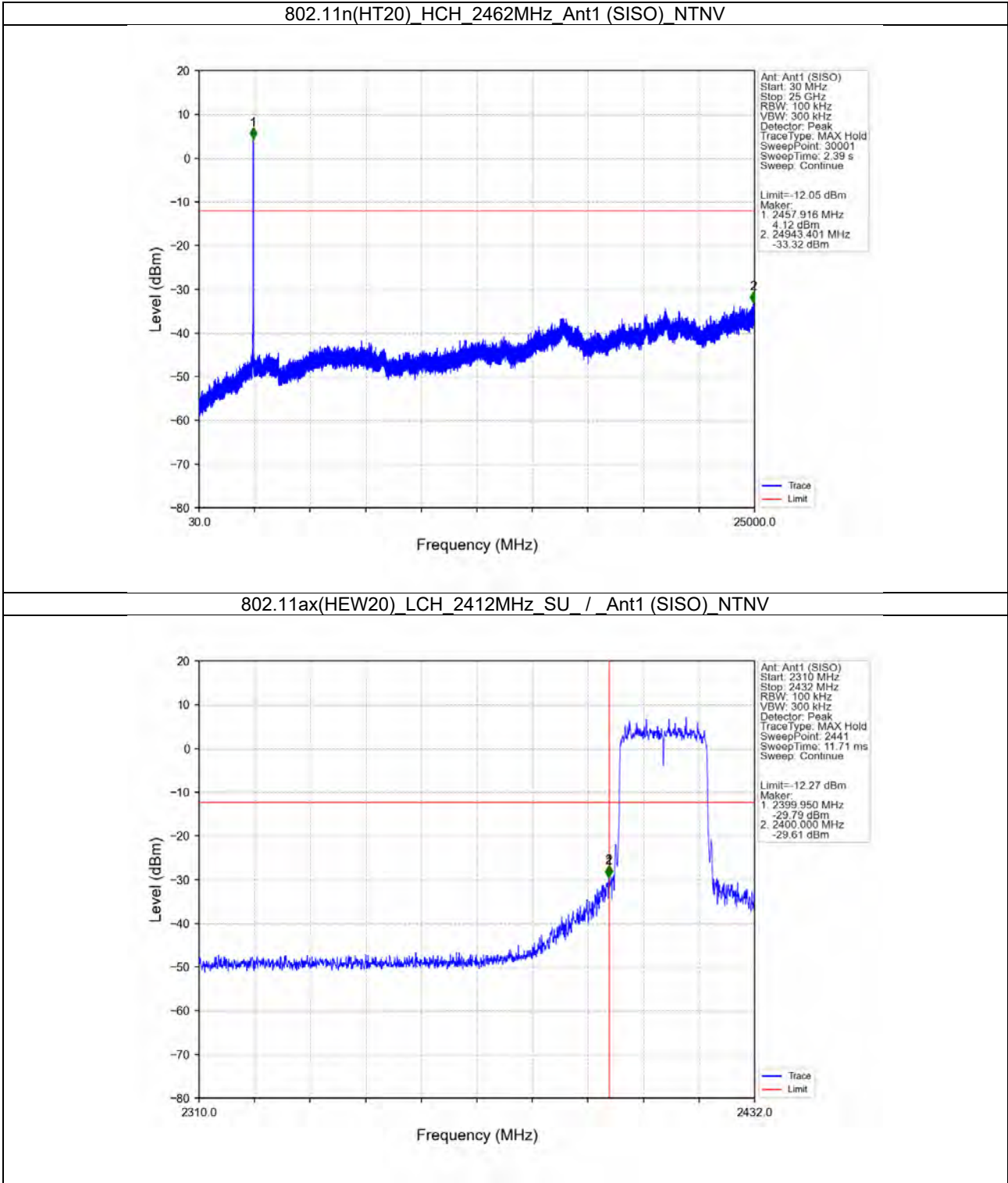
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV





SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

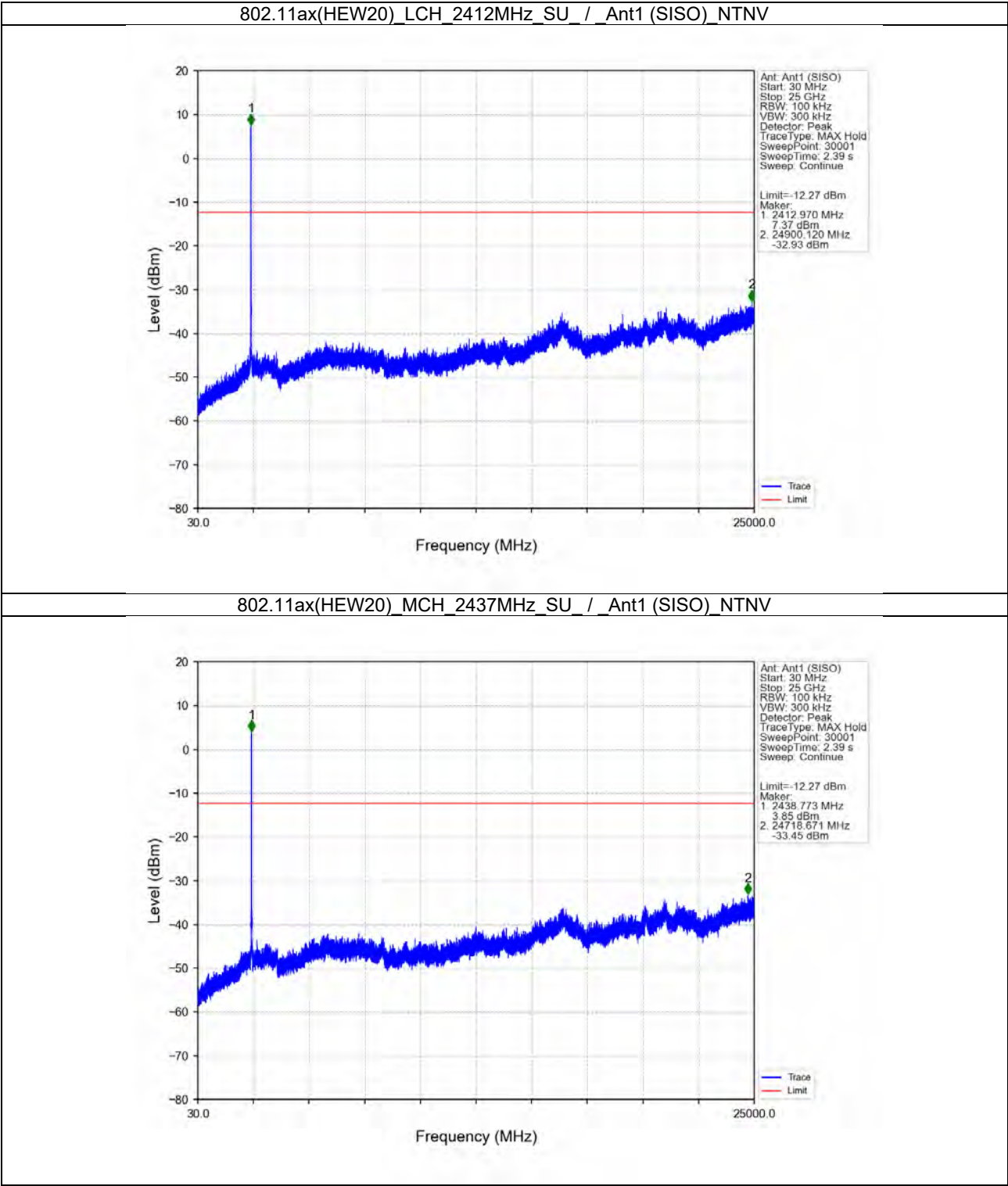
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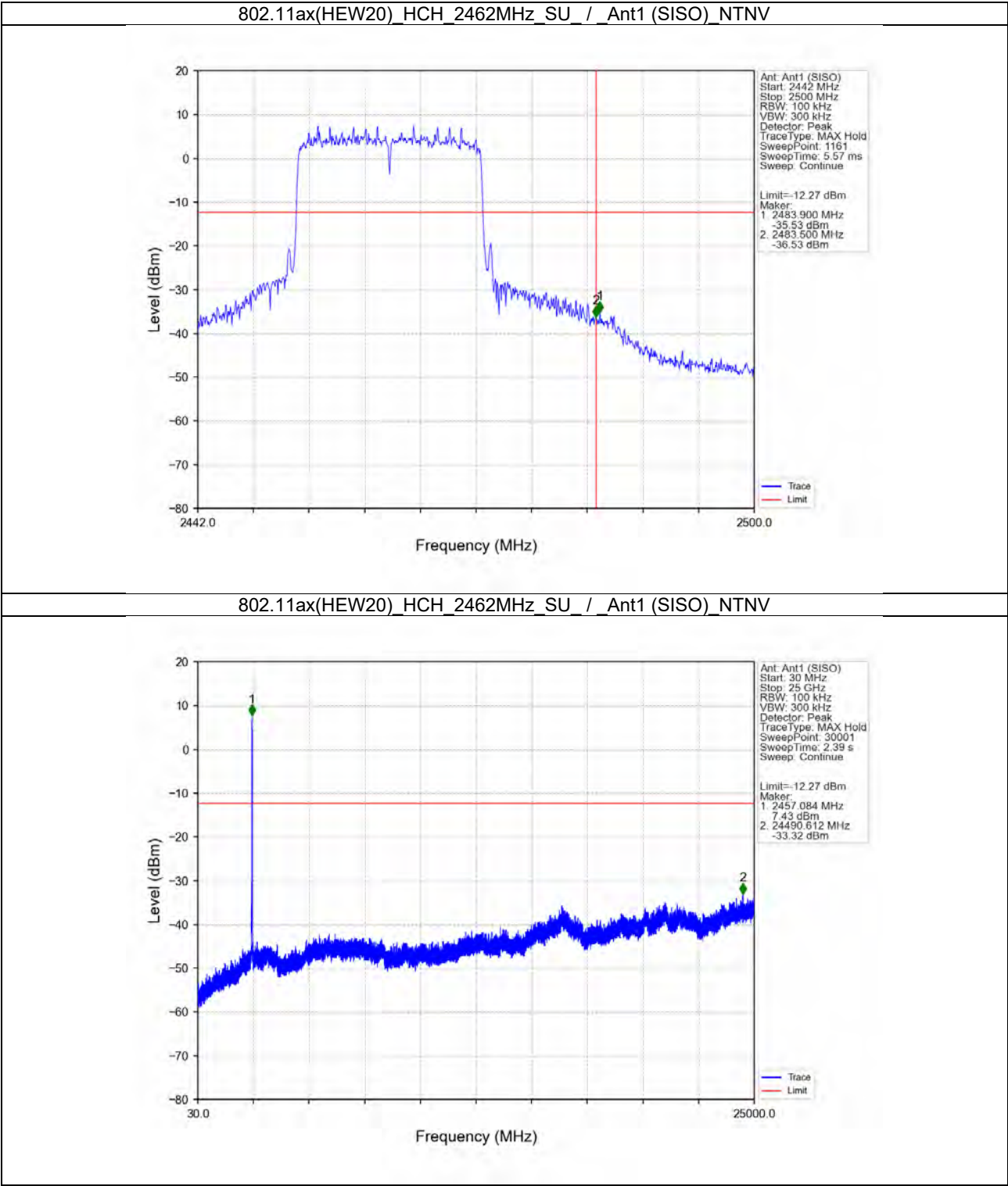
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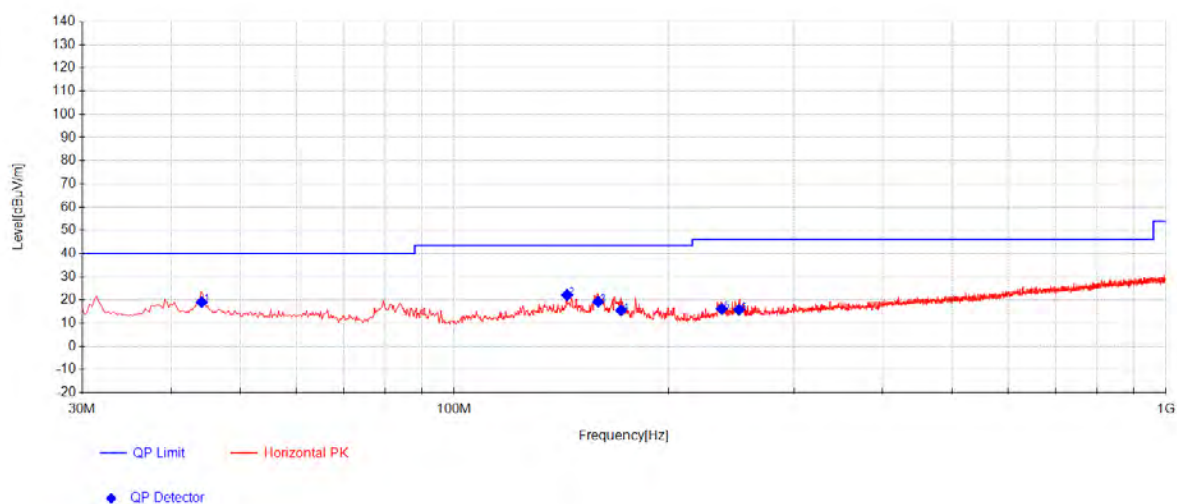
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Radiated Spurious Emissions

Radiated emission below 1GHz

Worst case Mode: 802. 11ax20_Channel 01



Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	44.1709	33.99	-33.79	18.81	19.01	40.00	20.99	Horizontal
2	143.9990	36.30	-32.74	18.60	22.16	43.50	21.34	Horizontal
3	159.2701	32.90	-32.57	18.90	19.23	43.50	24.27	Horizontal
4	171.5033	29.73	-32.41	18.14	15.46	43.50	28.04	Horizontal
5	237.5402	31.59	-32.05	16.60	16.14	46.00	29.86	Horizontal
6	251.1661	30.72	-31.96	16.97	15.73	46.00	30.27	Horizontal

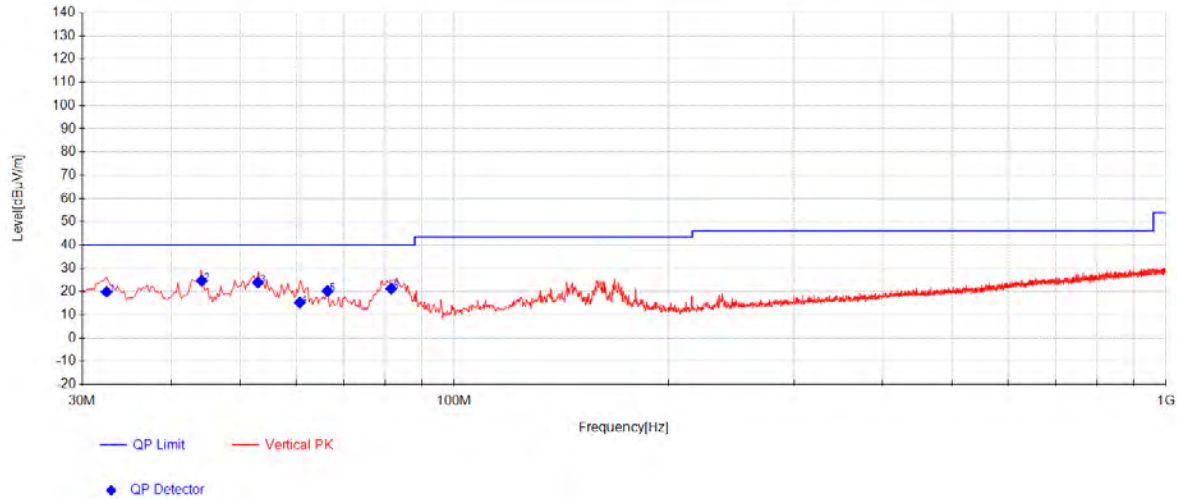


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Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	32.4689	35.75	-33.99	18.10	19.86	40.00	20.14	Vertical
2	44.1705	39.58	-33.79	18.81	24.60	40.00	15.40	Vertical
3	52.9734	39.31	-33.65	18.20	23.86	40.00	16.14	Vertical
4	60.6646	31.25	-33.54	17.50	15.21	40.00	24.79	Vertical
5	66.3577	36.54	-33.47	17.23	20.30	40.00	19.70	Vertical
6	81.5443	40.15	-33.33	14.48	21.30	40.00	18.70	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:
Value = Reading(dBμV) + AF(dB/m) + Factor(dB):
AF = Antenna Factor(dB/m)
Factor = Cable Factor(dB) - Preamplifier gain(dB)
Margin = Limit(dBμV/m) – Value(dBμV/m)
- All channels have been tested, but only the worst case data displayed in this report.



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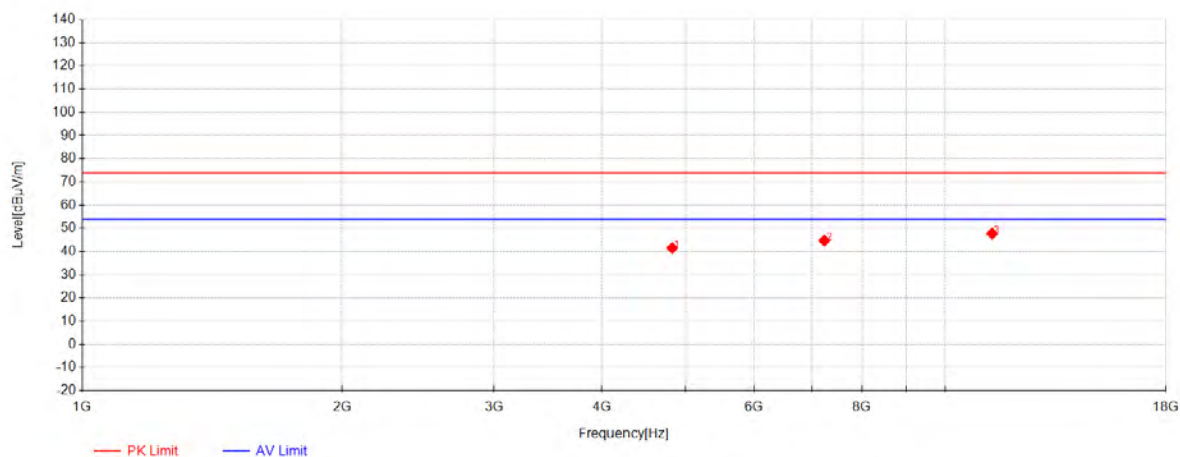
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Transmitter emission Above 1GHz

802.11b_Channel 01



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4824	50.16	32.81	-41.43	41.54	74.00	32.46	Horizontal
2	7237	46.26	36.28	-37.80	44.74	74.00	29.26	Horizontal
3	11321.5	39.43	38.40	-30.12	47.71	74.00	26.29	Horizontal



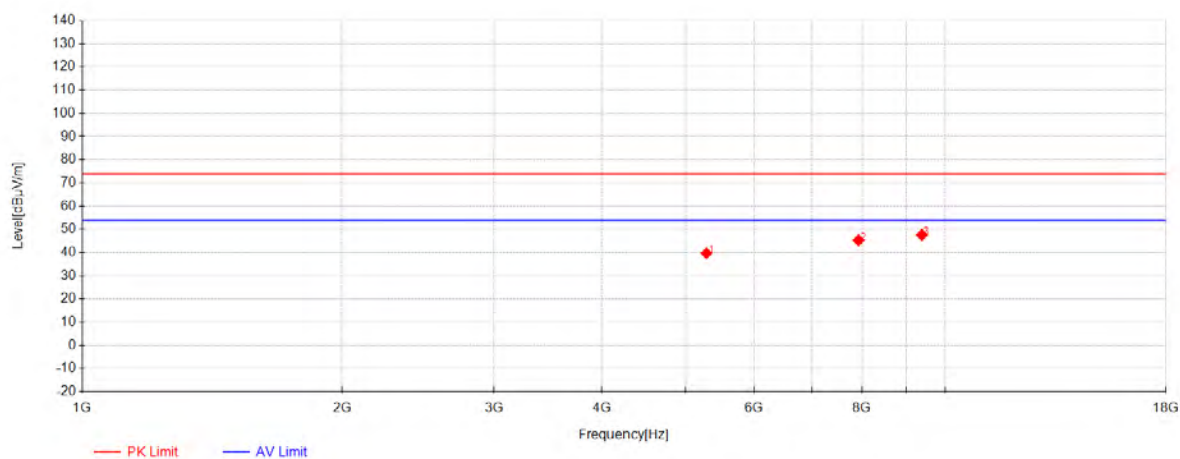
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802.11b_Channel 01



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5285	47.43	33.14	-40.90	39.68	74.00	34.32	Vertical
2	7928	44.90	37.03	-36.63	45.30	74.00	28.70	Vertical
3	9387.5	43.64	37.72	-33.80	47.56	74.00	26.44	Vertical



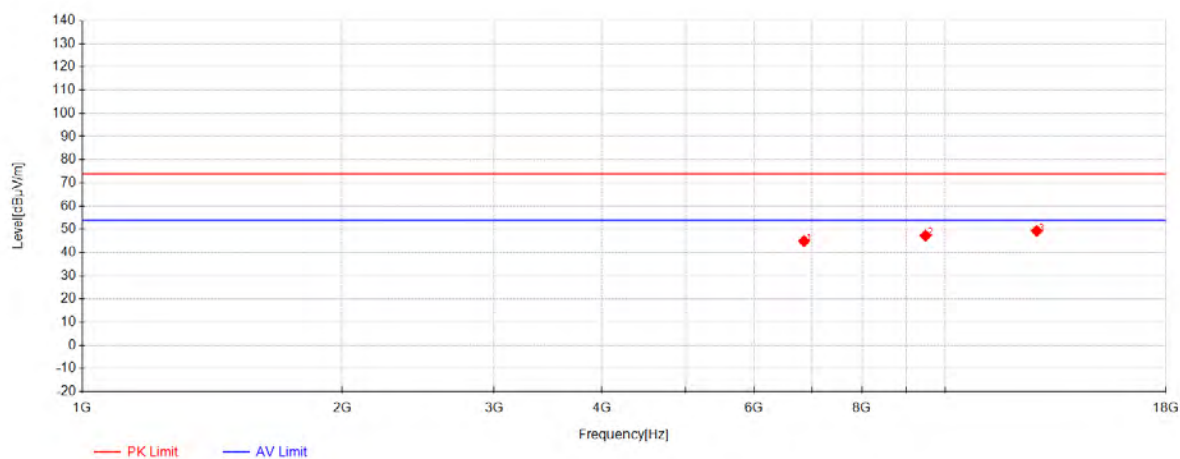
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802.11b_Channel 06



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	6856	47.34	35.94	-38.39	44.90	74.00	29.10	Horizontal
2	9477.5	43.36	37.74	-33.85	47.25	74.00	26.75	Horizontal
3	12752.5	39.73	39.30	-29.78	49.25	74.00	24.75	Horizontal



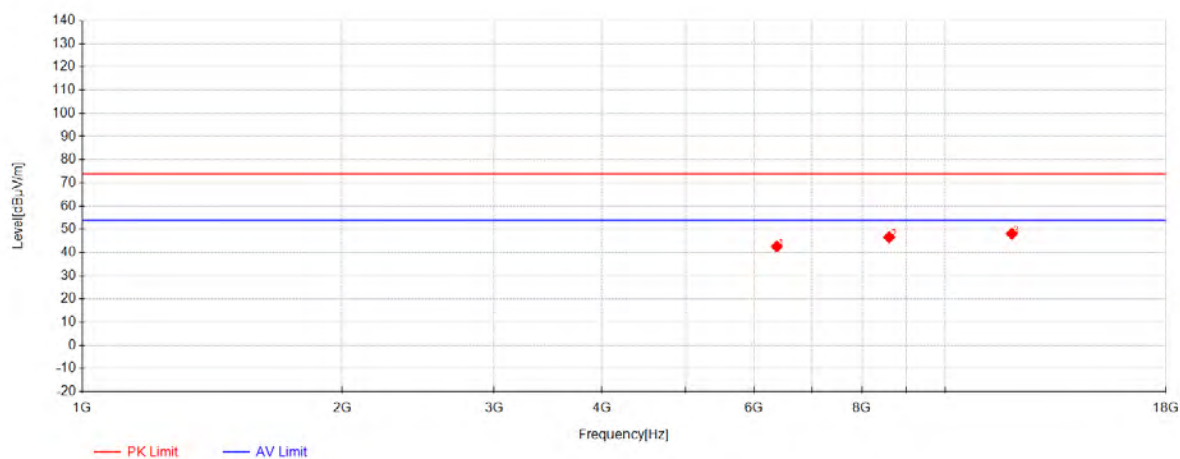
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802.11b_Channel 06



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	6375.5	46.36	35.55	-39.26	42.66	74.00	31.34	Vertical
2	8601.5	44.33	37.40	-35.16	46.57	74.00	27.43	Vertical
3	11931.5	39.34	38.40	-29.68	48.06	74.00	25.94	Vertical



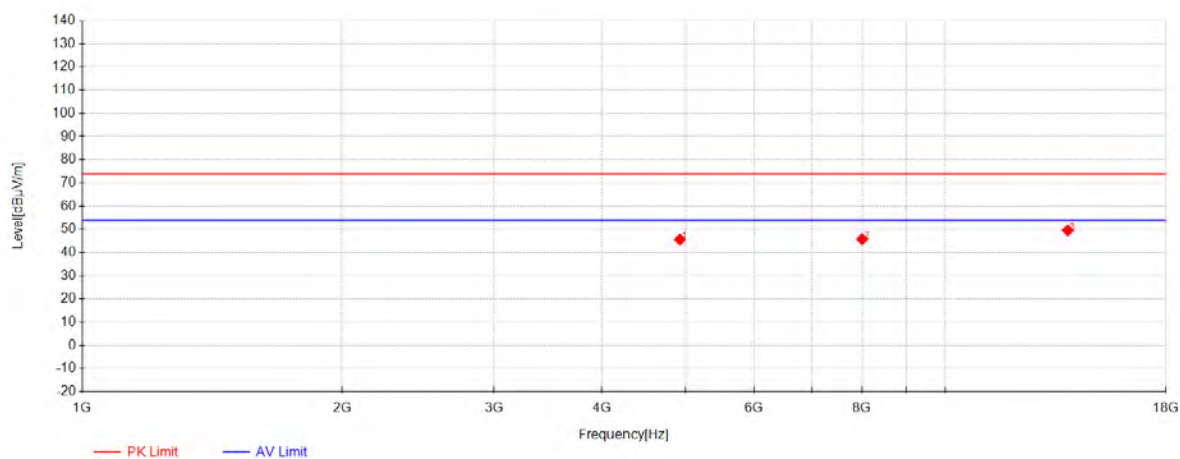
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802.11b_Channel 11



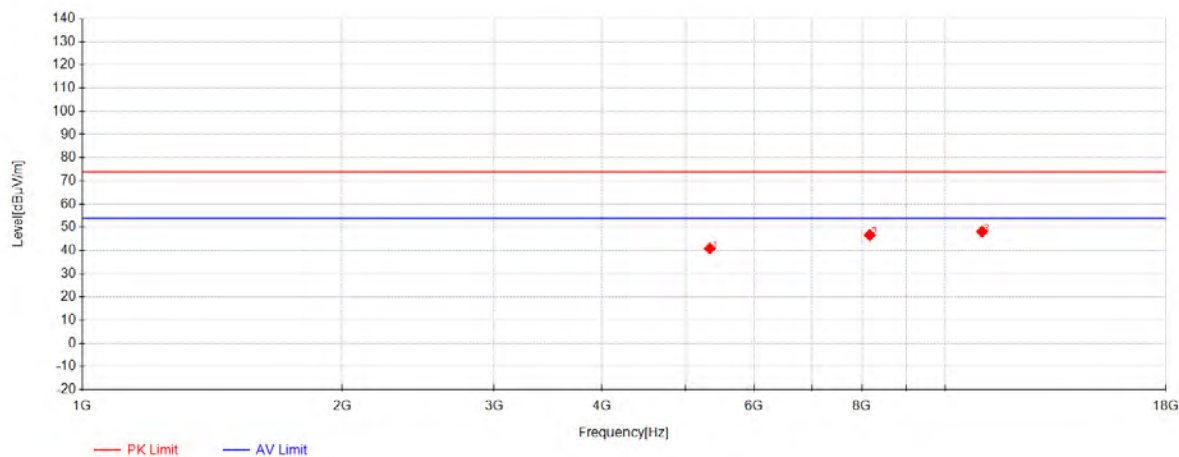
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4924	53.83	33.03	-41.26	45.60	74.00	28.40	Horizontal
2	8005	45.20	37.10	-36.55	45.76	74.00	28.24	Horizontal
3	13853.5	38.59	40.20	-29.28	49.51	74.00	24.49	Horizontal



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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	5332.5	48.65	33.13	-40.91	40.88	74.00	33.12	Vertical
2	8169	45.66	37.18	-36.19	46.65	74.00	27.35	Vertical
3	11022.5	39.85	38.40	-30.16	48.09	74.00	25.91	Vertical



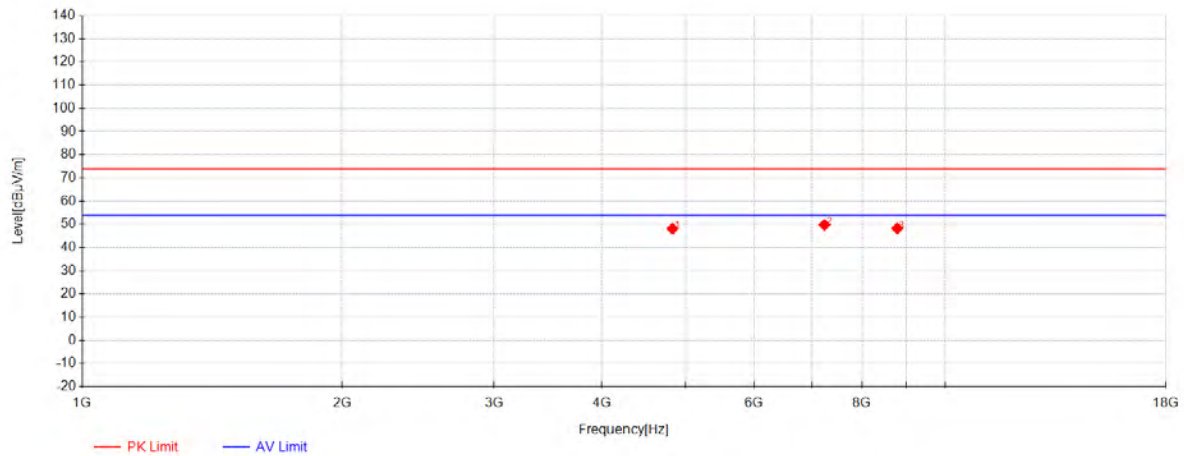
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802.11g_Channel 01



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4827.5	56.67	32.82	-41.42	48.07	74.00	21.93	Horizontal
2	7240.5	51.25	36.29	-37.78	49.76	74.00	20.24	Horizontal
3	8791	45.65	37.50	-34.95	48.20	74.00	25.80	Horizontal



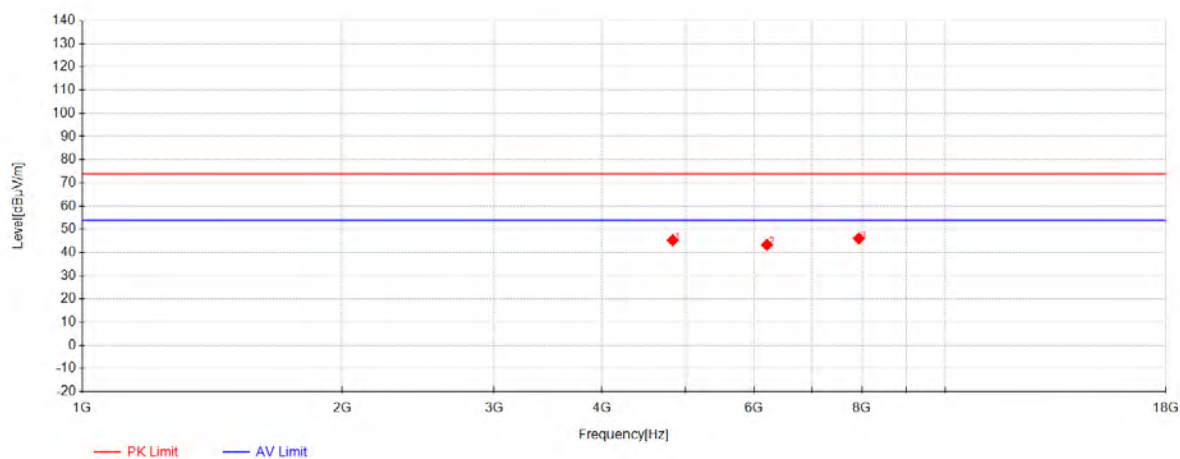
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4830	53.89	32.83	-41.41	45.31	74.00	28.69	Vertical
2	6210.5	47.73	35.22	-39.59	43.36	74.00	30.64	Vertical
3	7935.5	45.64	37.04	-36.62	46.06	74.00	27.94	Vertical



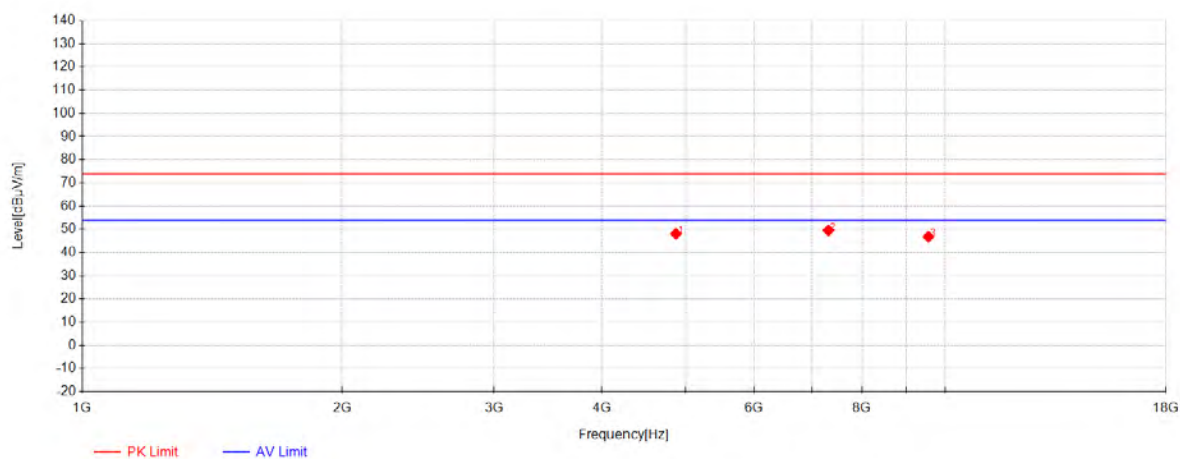
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4872	56.41	32.92	-41.28	48.04	74.00	25.96	Horizontal
2	7316	50.59	36.38	-37.44	49.52	74.00	24.48	Horizontal
3	9552	42.71	37.77	-33.68	46.80	74.00	27.20	Horizontal



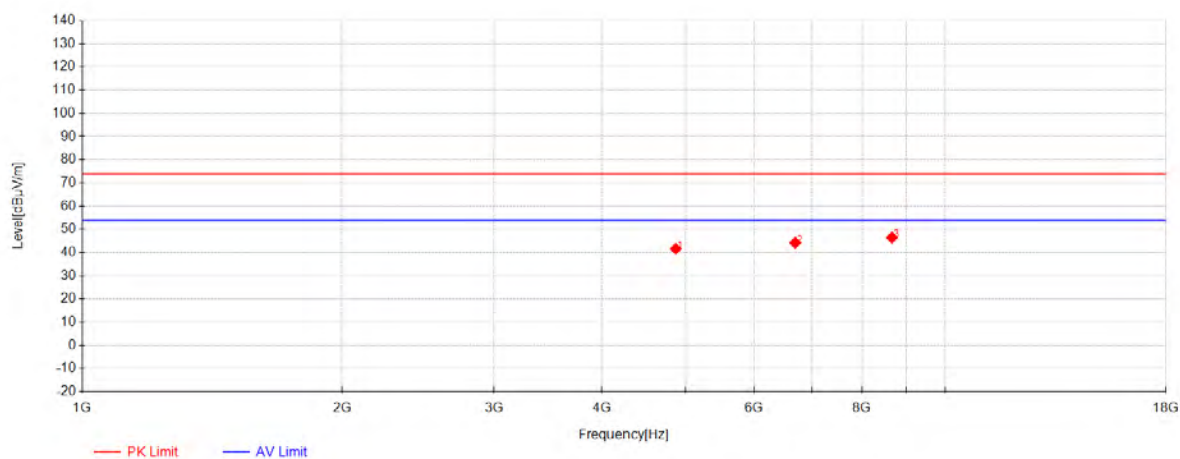
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

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802.11g_Channel 06



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4870	49.99	32.91	-41.29	41.61	74.00	32.39	Vertical
2	6696.5	47.14	35.88	-38.78	44.24	74.00	29.76	Vertical
3	8667	44.36	37.43	-35.34	46.45	74.00	27.55	Vertical



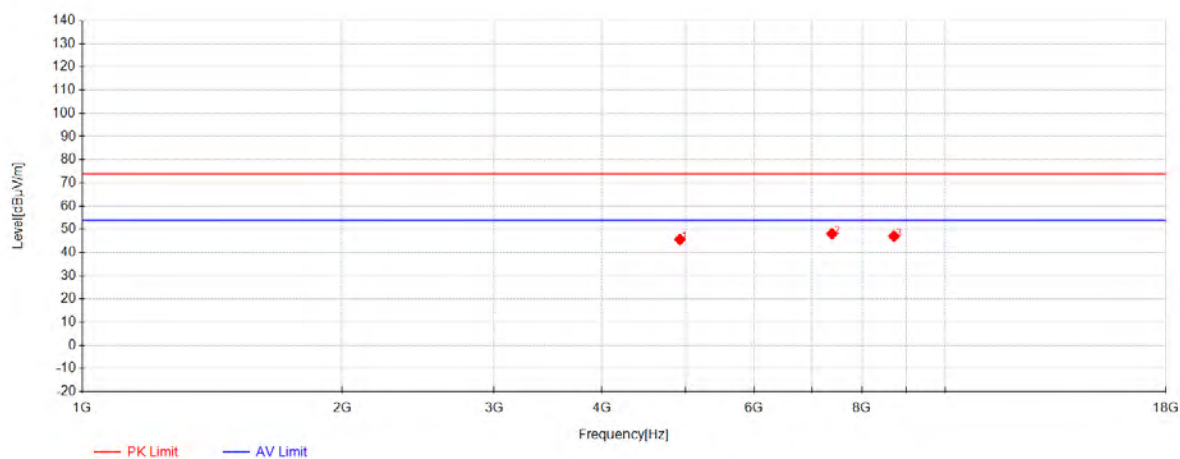
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4924	53.86	33.03	-41.26	45.63	74.00	28.37	Horizontal
2	7386	49.38	36.46	-37.82	48.03	74.00	25.97	Horizontal
3	8715	44.92	37.46	-35.35	47.03	74.00	26.97	Horizontal



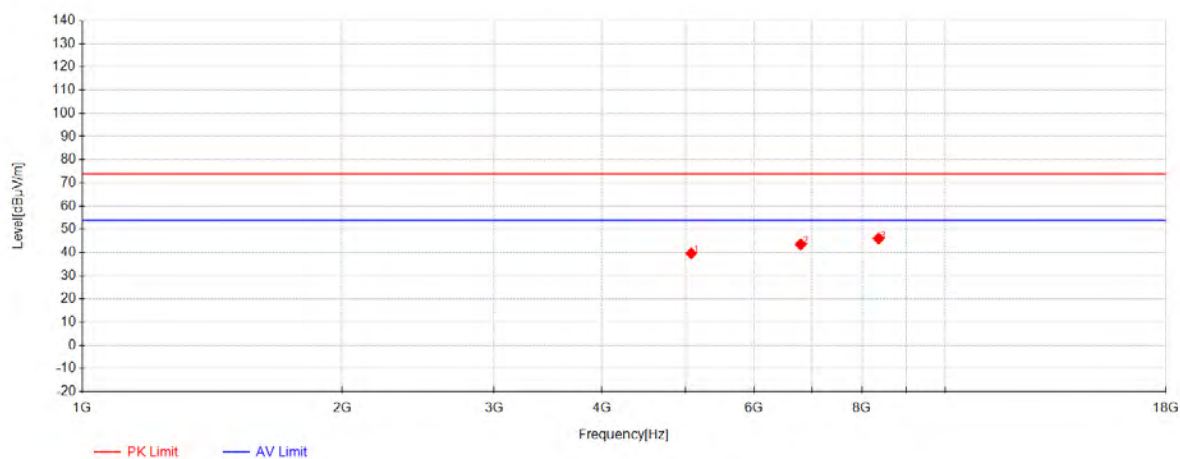
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5074	47.79	33.19	-41.33	39.65	74.00	34.35	Vertical
2	6794.5	46.12	35.92	-38.48	43.56	74.00	30.44	Vertical
3	8364	44.49	37.28	-35.73	46.04	74.00	27.96	Vertical



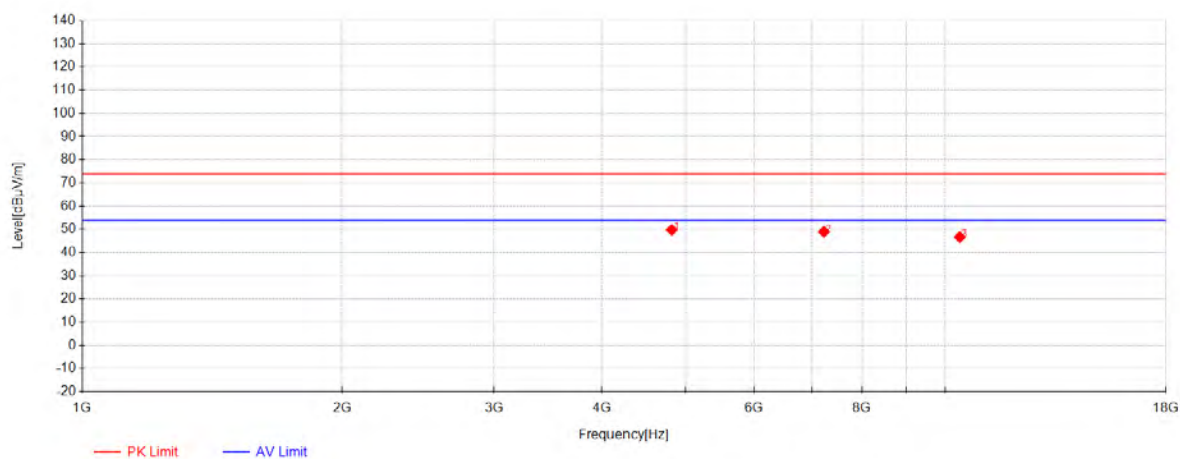
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4818	58.38	32.80	-41.45	49.73	74.00	24.27	Horizontal
2	7229	50.50	36.27	-37.86	48.92	74.00	25.08	Horizontal
3	10386.5	40.12	38.09	-31.55	46.66	74.00	27.34	Horizontal



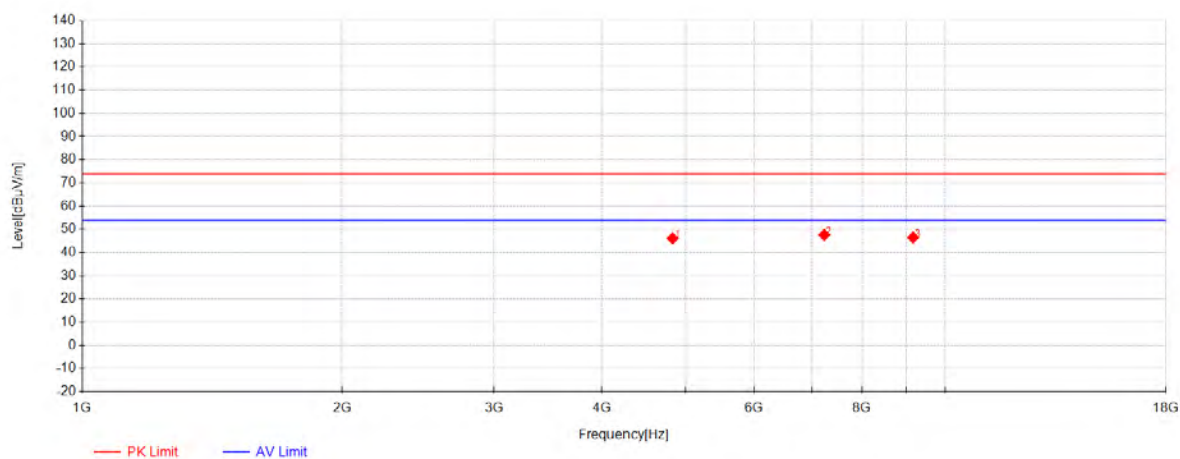
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4828.5	54.68	32.82	-41.41	46.09	74.00	27.91	Vertical
2	7235	49.09	36.28	-37.82	47.56	74.00	26.44	Vertical
3	9170	43.37	37.65	-34.54	46.48	74.00	27.52	Vertical



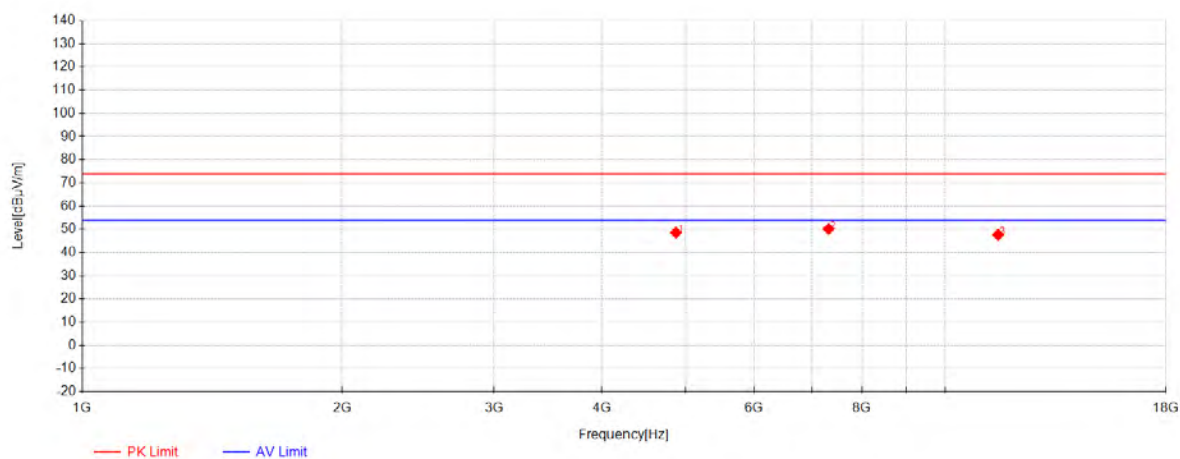
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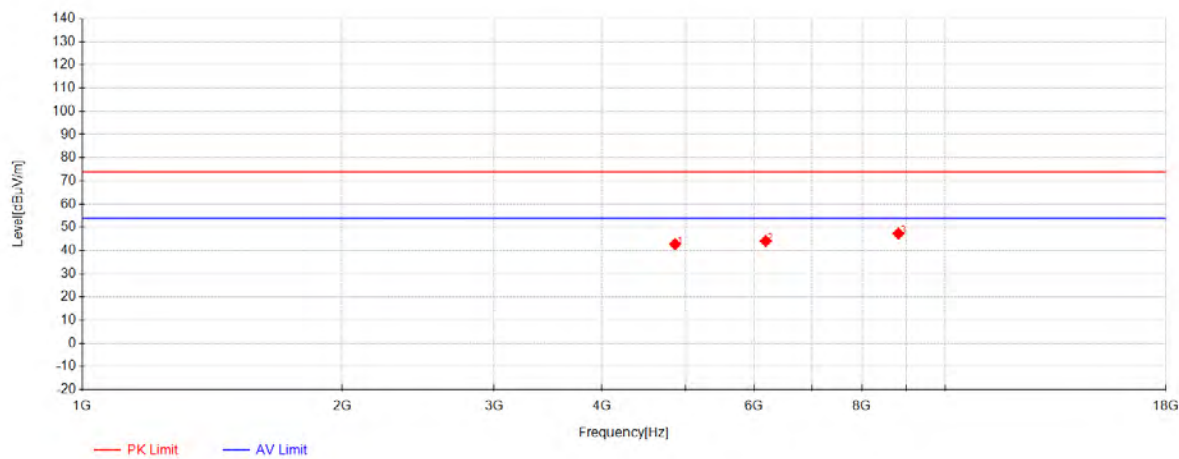
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1	4872	56.92	32.92	-41.28	48.55	74.00	25.45	Horizontal
2	7319	51.22	36.38	-37.46	50.14	74.00	23.86	Horizontal
3	11504	39.19	38.40	-29.98	47.61	74.00	26.39	Horizontal



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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4861	51.20	32.89	-41.32	42.78	74.00	31.22	Vertical
2	6189.5	48.55	35.18	-39.63	44.10	74.00	29.90	Vertical
3	8818	44.69	37.51	-34.92	47.28	74.00	26.72	Vertical



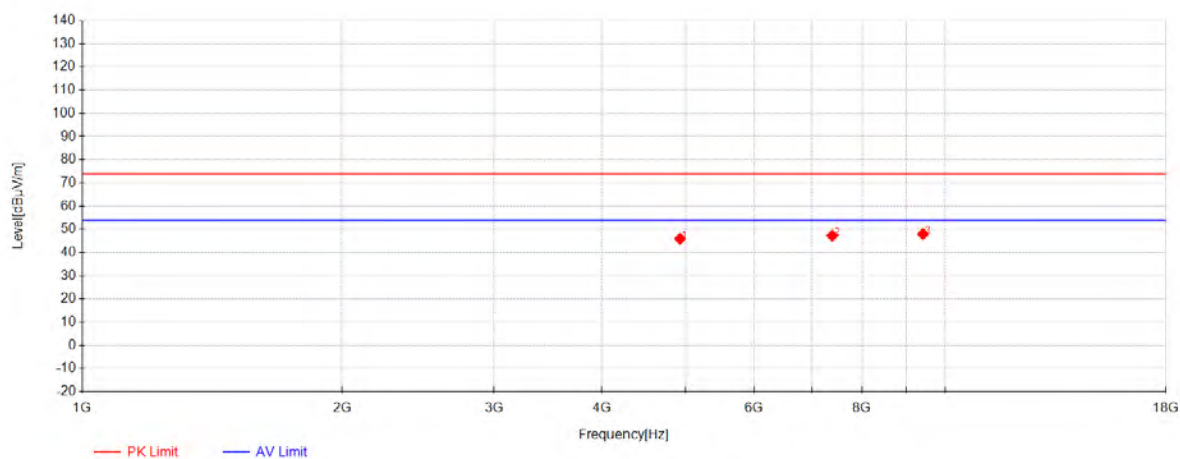
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4926	54.16	33.04	-41.27	45.93	74.00	28.07	Horizontal
2	7391	48.57	36.47	-37.84	47.20	74.00	26.80	Horizontal
3	9414	43.97	37.72	-33.77	47.93	74.00	26.07	Horizontal



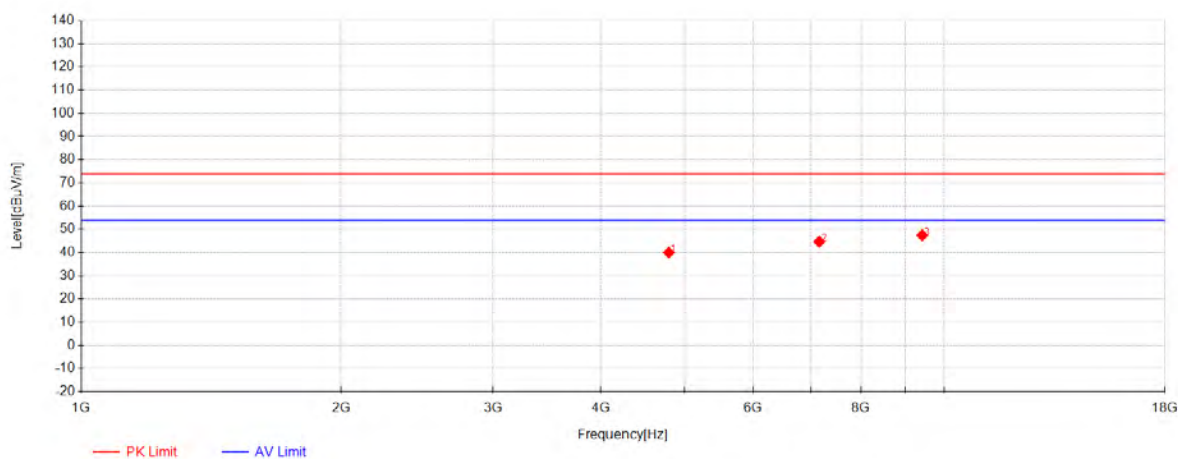
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4793	48.76	32.74	-41.50	40.00	74.00	34.00	Vertical
2	7158.5	46.60	36.19	-38.08	44.71	74.00	29.29	Vertical
3	9420.5	43.43	37.73	-33.78	47.38	74.00	26.62	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:
Level = Reading(dBμV) + AF(dB/m) + Factor(dB):
AF = Antenna Factor(dB/m)
Factor = Cable Factor(dB) - Preamplifier gain(dB)
Margin = Limit(dBμV/m) – Level(dBμV/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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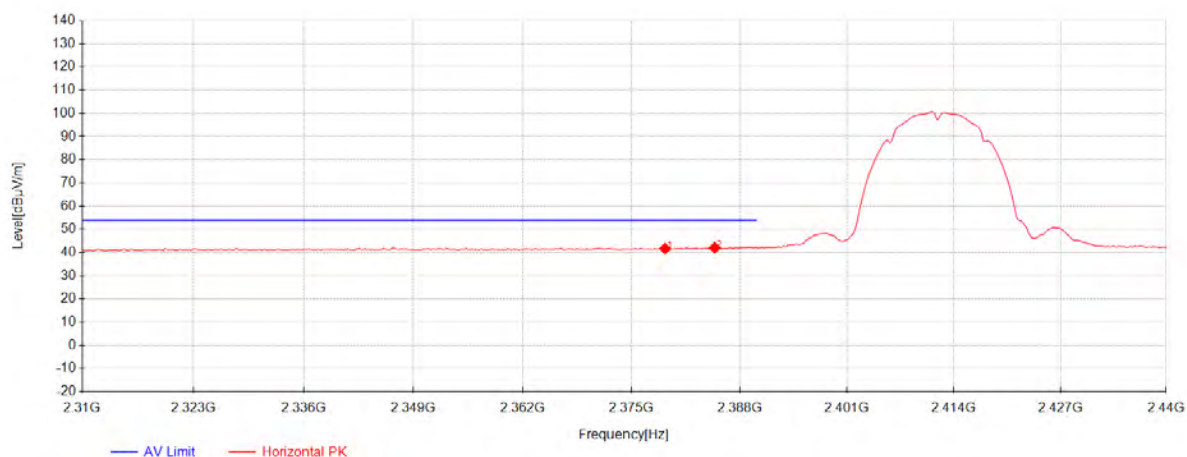
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Restricted bands around fundamental frequency

802.11b_Channel 01



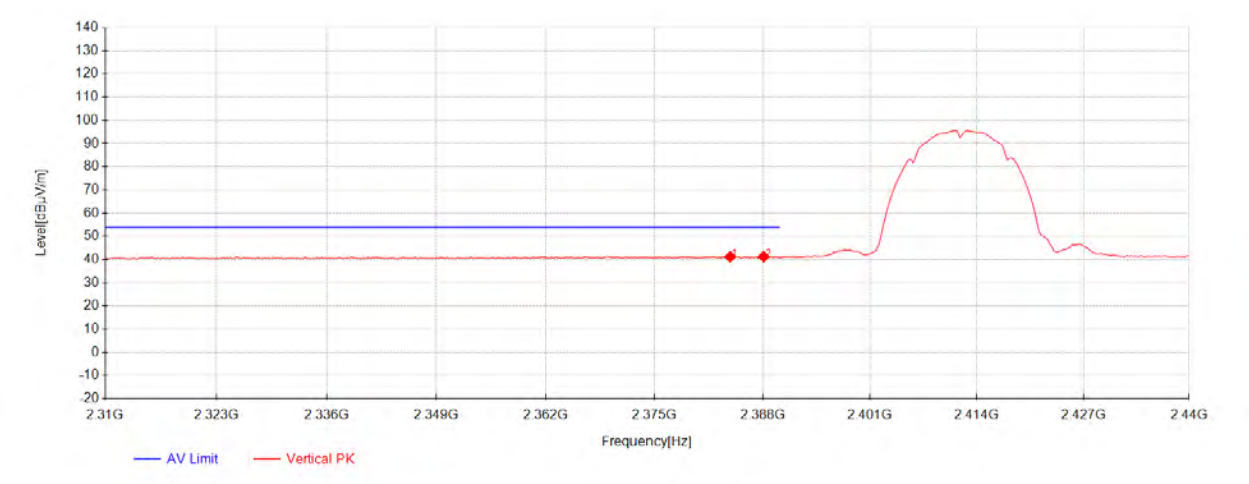
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1	2379.03	37.88	27.13	-23.31	41.71	54.00	12.29	Horizontal
2	2385.01	38.24	27.15	-23.31	42.08	54.00	11.92	Horizontal



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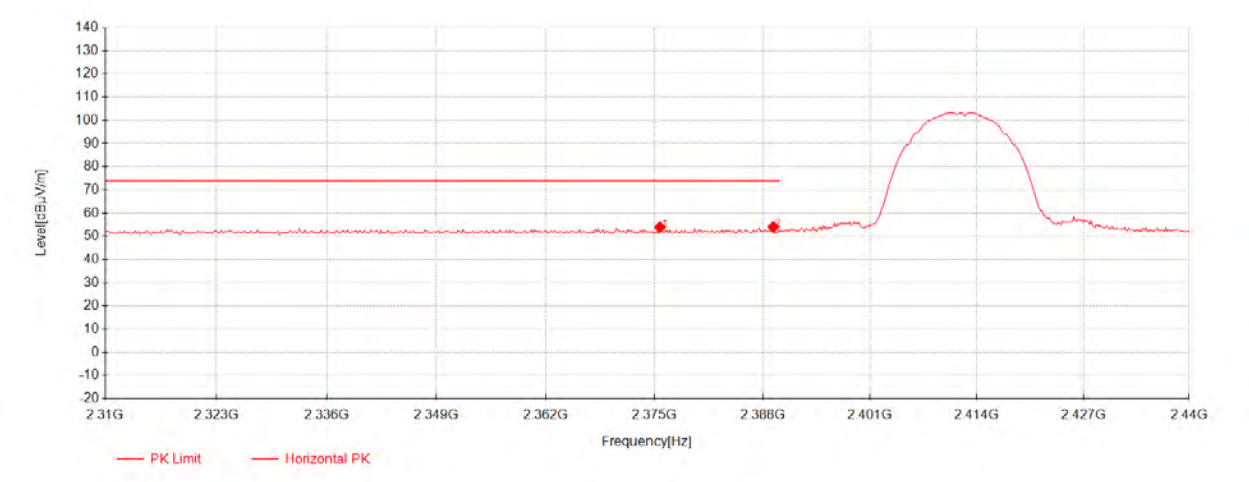
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1	2384.1	37.37	27.15	-23.31	41.21	54.00	12.79	Vertical
2	2388.13	37.42	27.15	-23.31	41.26	54.00	12.74	Vertical



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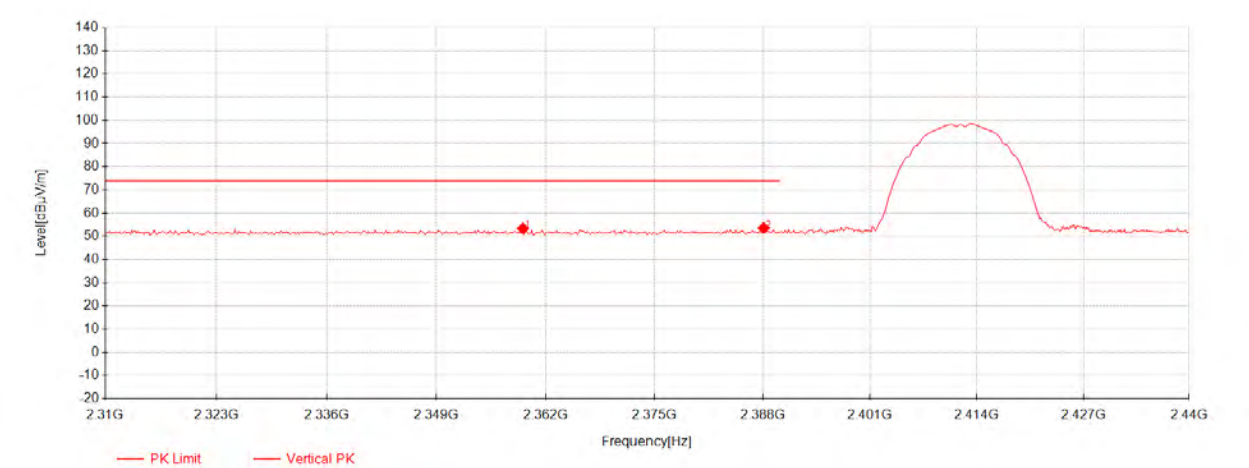
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1	2375.65	50.14	27.13	-23.30	53.96	74.00	20.04	Horizontal
2	2389.3	50.24	27.16	-23.31	54.08	74.00	19.92	Horizontal



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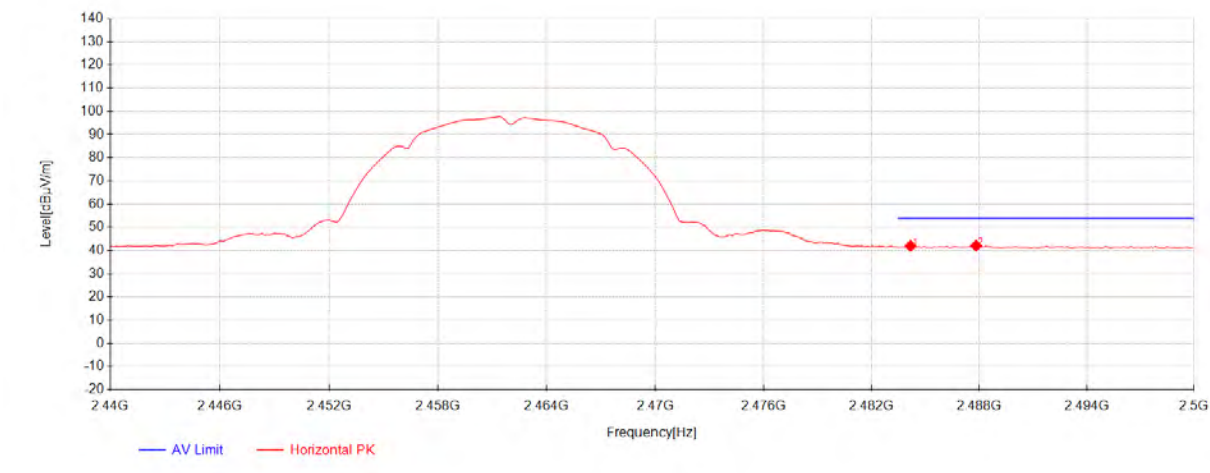
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1	2359.27	49.61	27.09	-23.29	53.41	74.00	20.59	Vertical
2	2388.13	49.79	27.15	-23.31	53.63	74.00	20.37	Vertical



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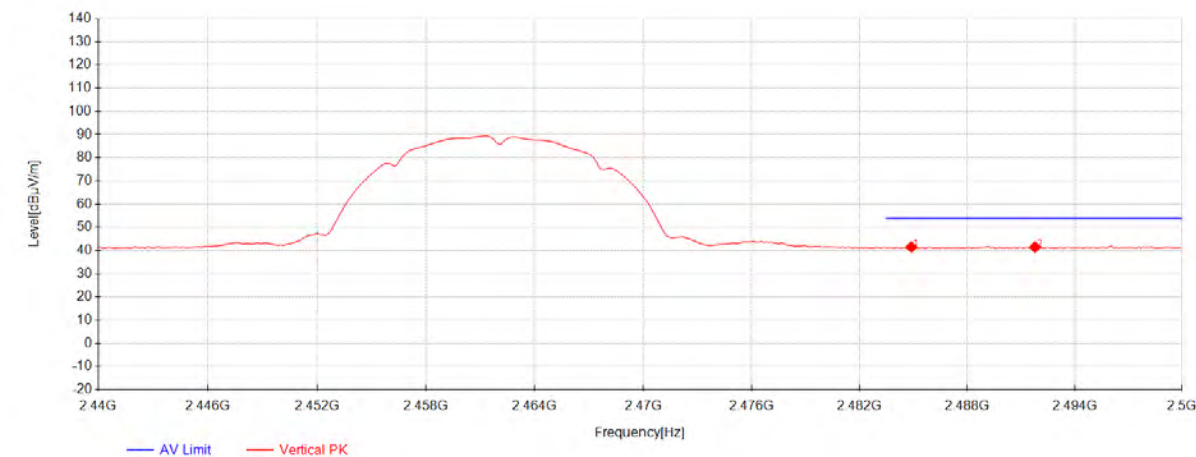
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1	2484.16	37.92	27.37	-23.27	42.02	54.00	11.98	Horizontal
2	2487.82	38.01	27.37	-23.27	42.12	54.00	11.88	Horizontal



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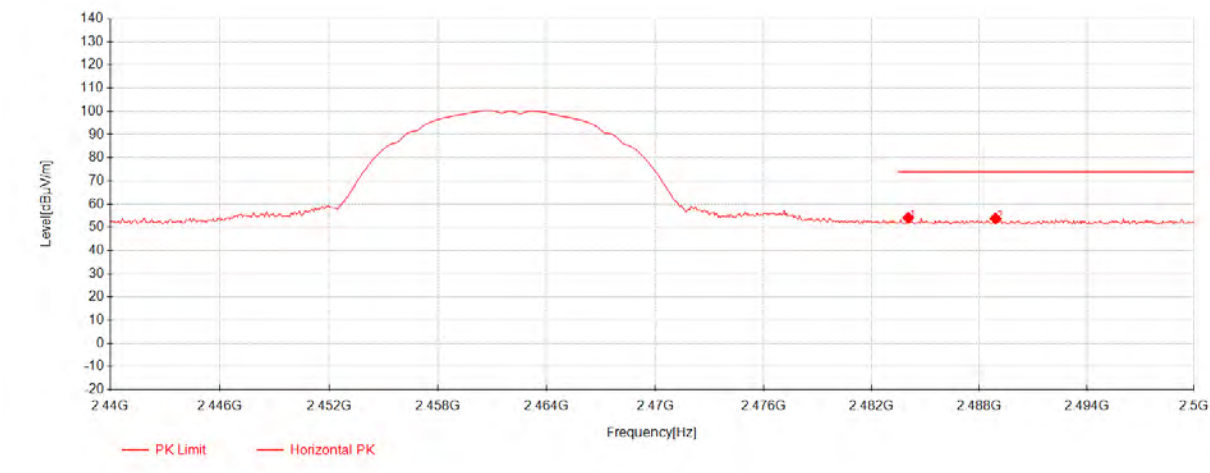
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1	2484.88	37.46	27.37	-23.27	41.56	54.00	12.44	Vertical
2	2491.78	37.40	27.38	-23.26	41.52	54.00	12.48	Vertical



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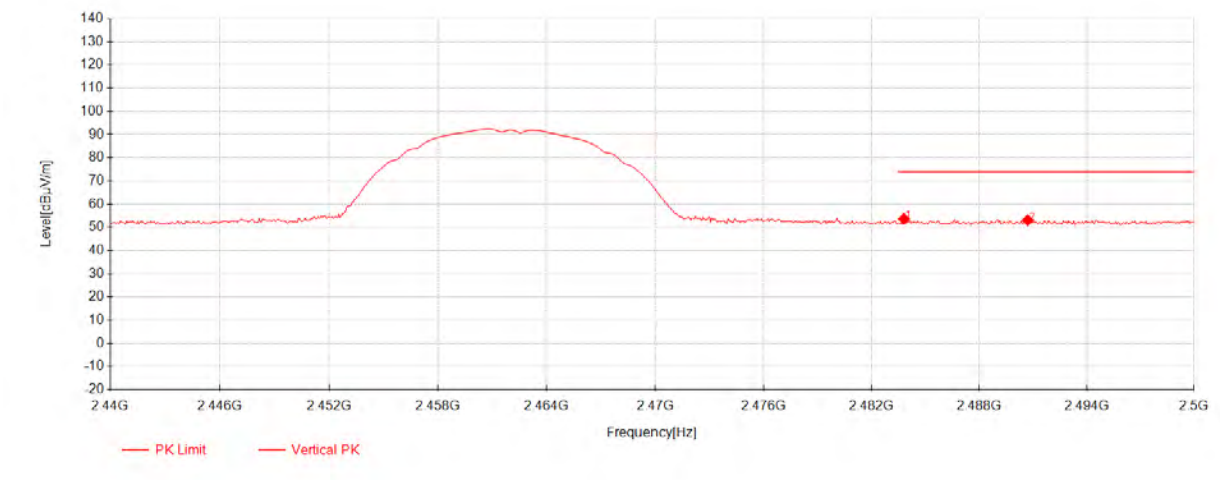
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1	2484.04	50.04	27.36	-23.27	54.14	74.00	19.86	Horizontal
2	2488.9	49.71	27.38	-23.27	53.82	74.00	20.18	Horizontal



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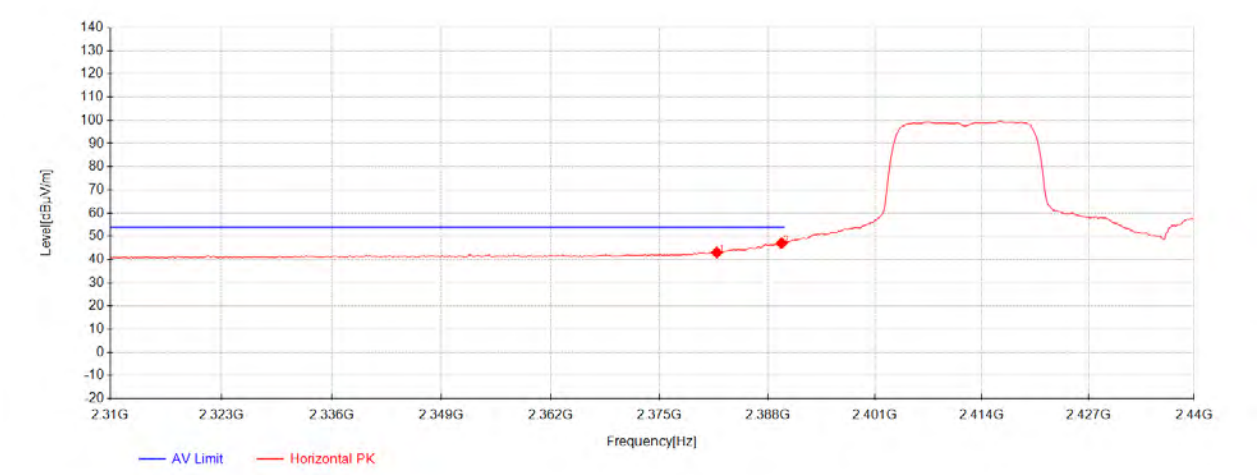
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1	2483.8	49.59	27.36	-23.27	53.68	74.00	20.32	Vertical
2	2490.7	48.98	27.38	-23.27	53.09	74.00	20.91	Vertical



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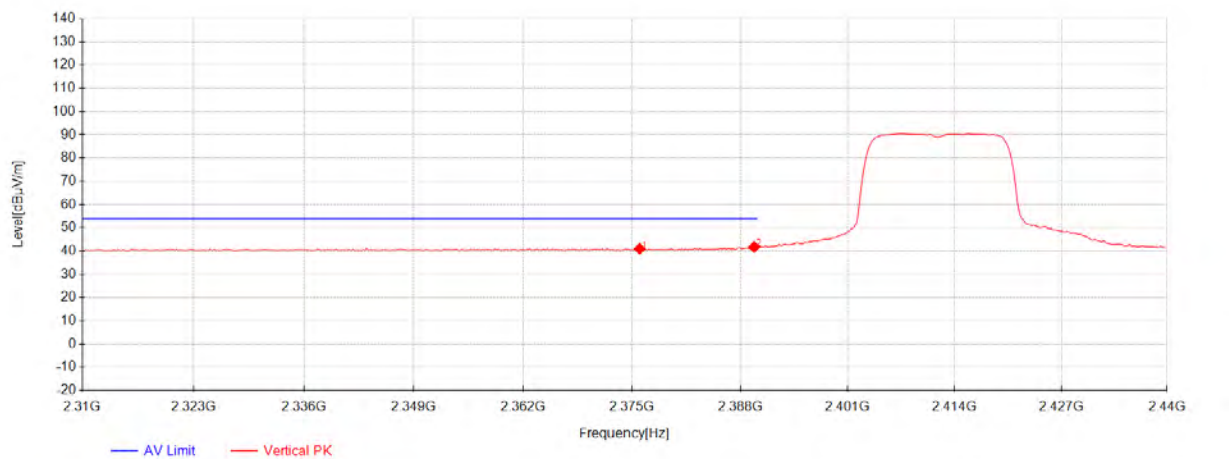
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1	2381.89	39.22	27.14	-23.31	43.05	54.00	10.95	Horizontal
2	2389.69	43.19	27.16	-23.31	47.03	54.00	6.97	Horizontal



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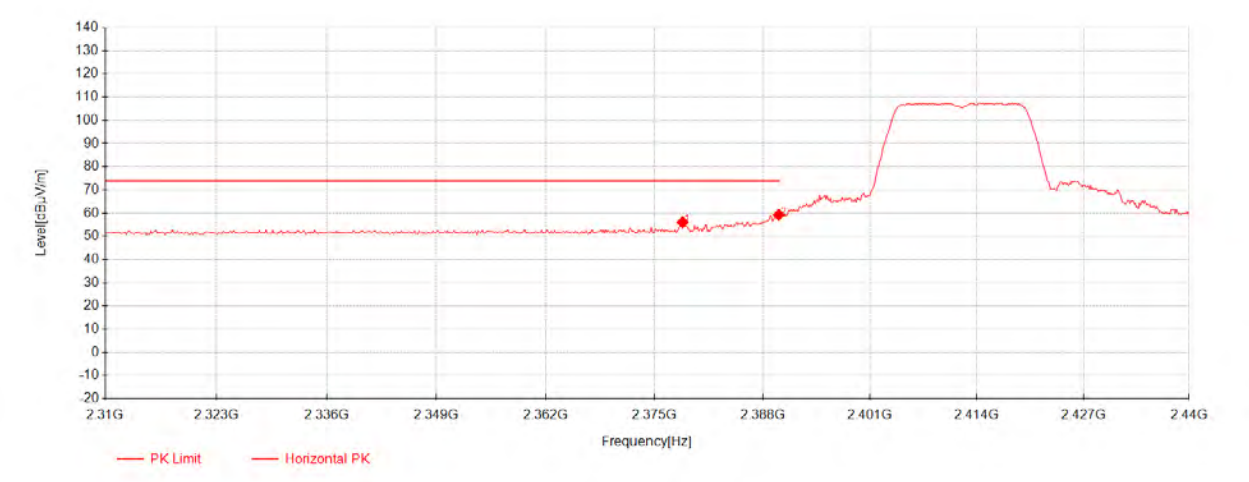
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1	2375.91	37.13	27.13	-23.30	40.95	54.00	13.05	Vertical
2	2389.69	37.93	27.16	-23.31	41.77	54.00	12.23	Vertical



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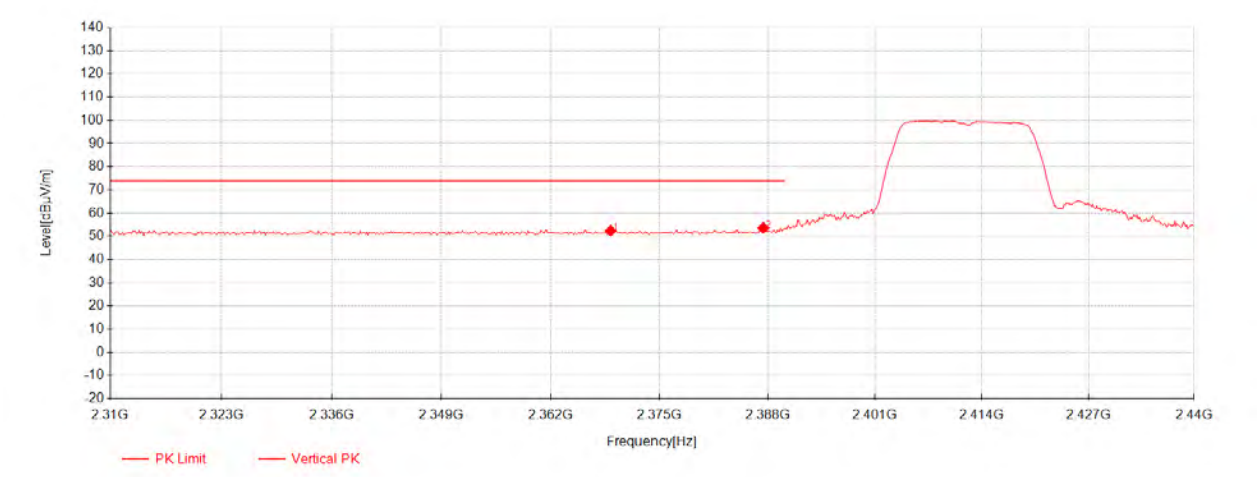
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1	2378.38	52.26	27.13	-23.30	56.09	74.00	17.91	Horizontal
2	2389.95	55.41	27.16	-23.31	59.25	74.00	14.75	Horizontal



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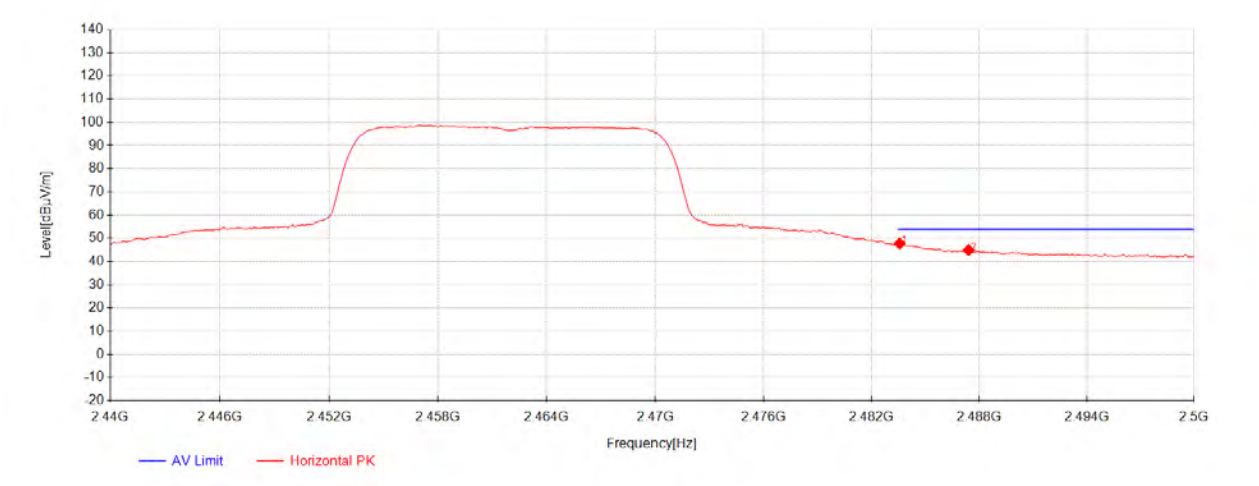
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1	2369.15	48.59	27.11	-23.30	52.40	74.00	21.60	Vertical
2	2387.48	49.82	27.15	-23.31	53.66	74.00	20.34	Vertical



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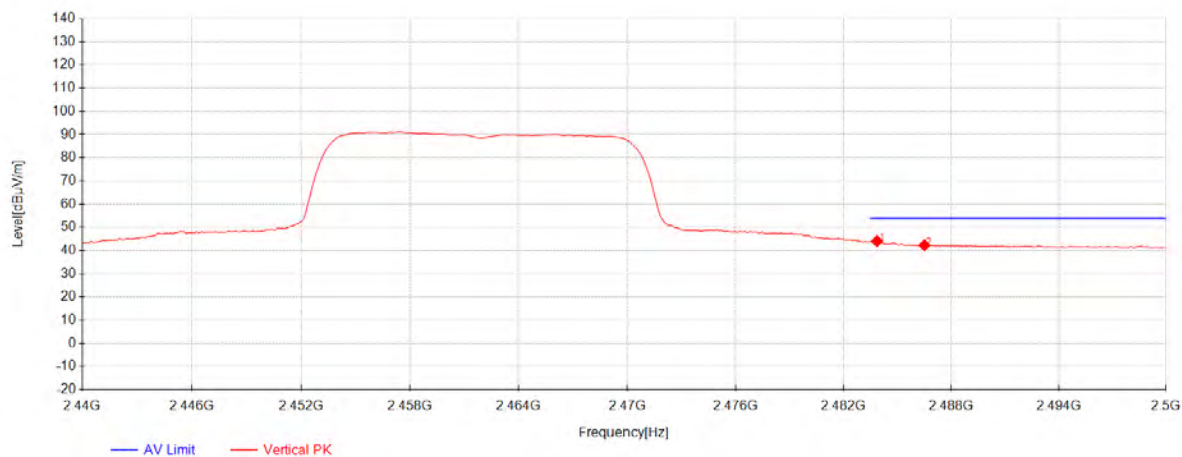
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1	2483.56	43.63	27.36	-23.27	47.72	54.00	6.28	Horizontal
2	2487.4	40.88	27.37	-23.27	44.98	54.00	9.02	Horizontal



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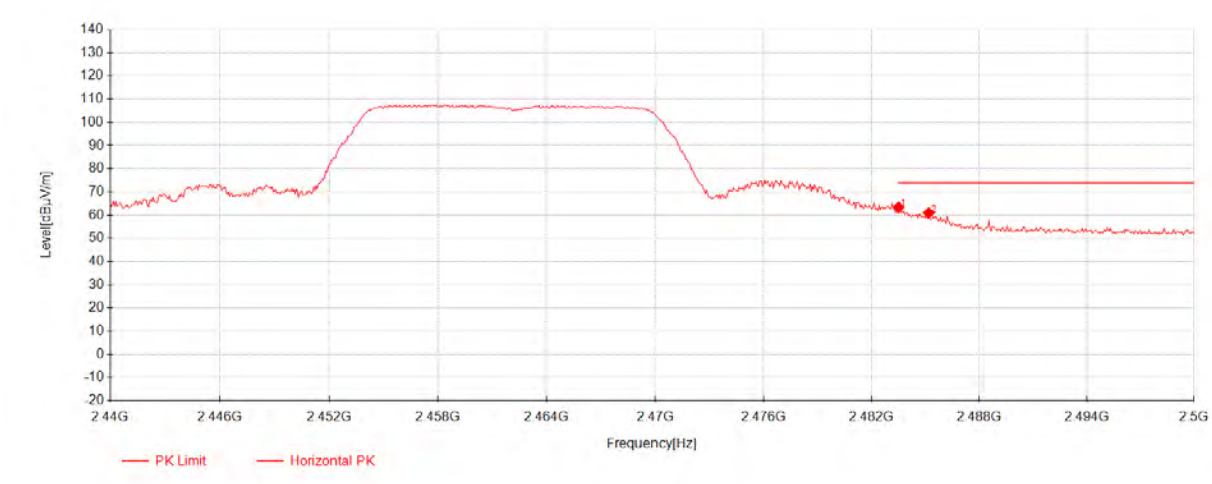
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1	2483.86	40.00	27.36	-23.27	44.09	54.00	9.91	Vertical
2	2486.5	38.23	27.37	-23.27	42.33	54.00	11.67	Vertical



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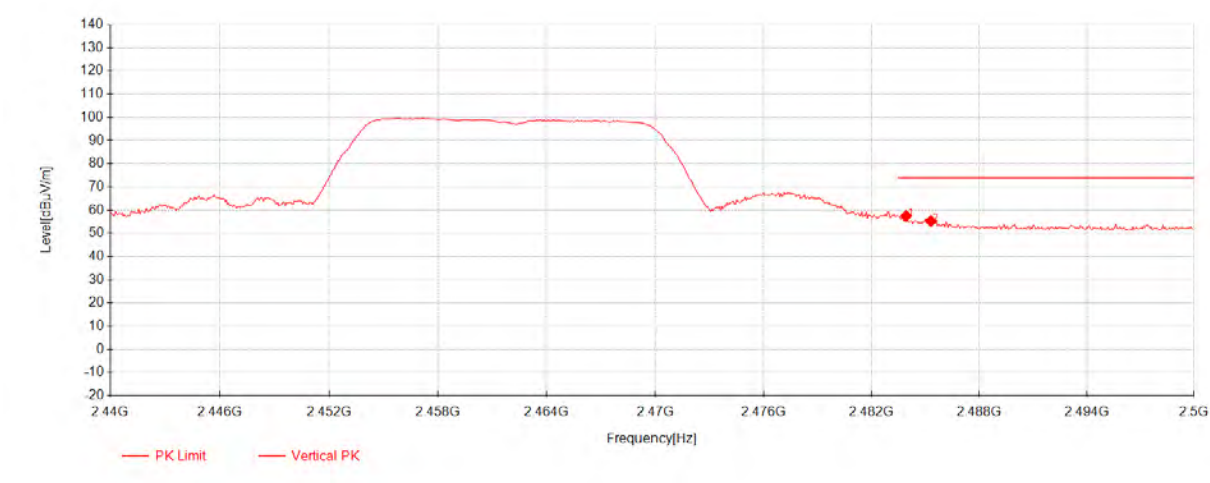
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1	2483.5	59.34	27.36	-23.27	63.43	74.00	10.57	Horizontal
2	2485.18	56.84	27.37	-23.27	60.94	74.00	13.06	Horizontal



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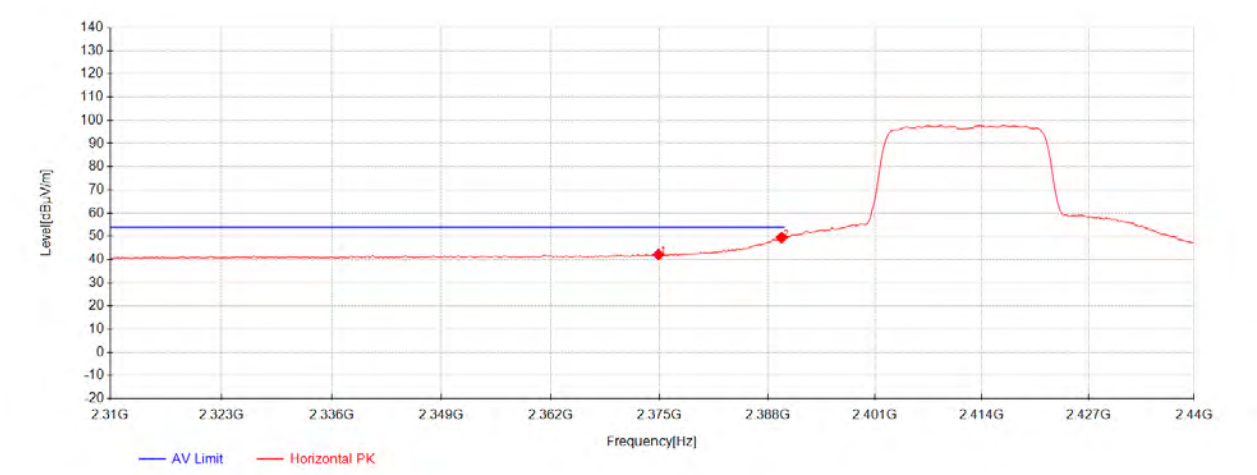
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1	2483.92	53.39	27.36	-23.27	57.48	74.00	16.52	Vertical
2	2485.3	51.20	27.37	-23.27	55.30	74.00	18.70	Vertical



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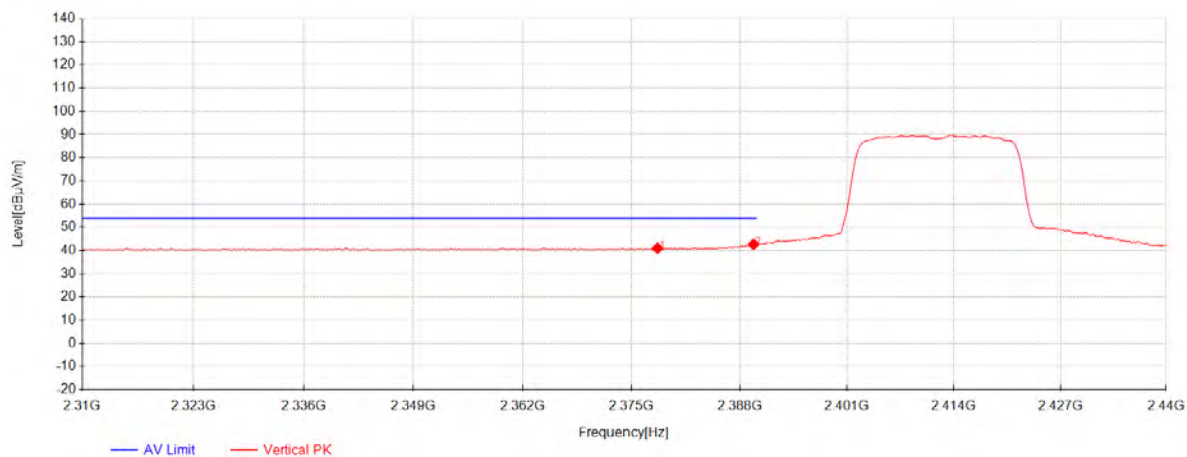
Data List								
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1	2374.87	38.36	27.12	-23.30	42.18	54.00	11.82	Horizontal
2	2389.69	45.59	27.16	-23.31	49.43	54.00	4.57	Horizontal



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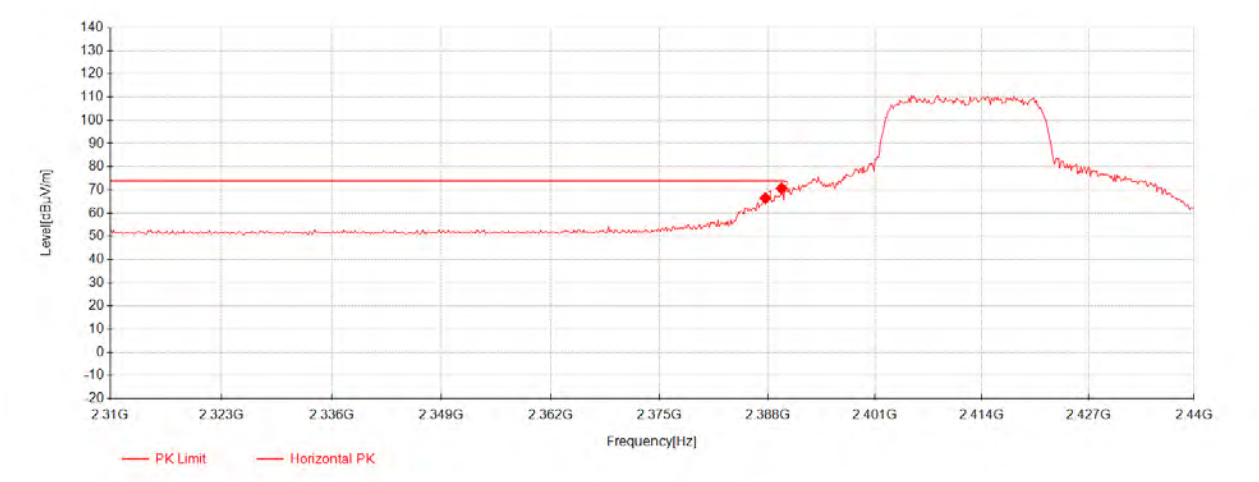
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1	2378.12	37.14	27.13	-23.30	40.97	54.00	13.03	Vertical
2	2389.69	38.87	27.16	-23.31	42.71	54.00	11.29	Vertical



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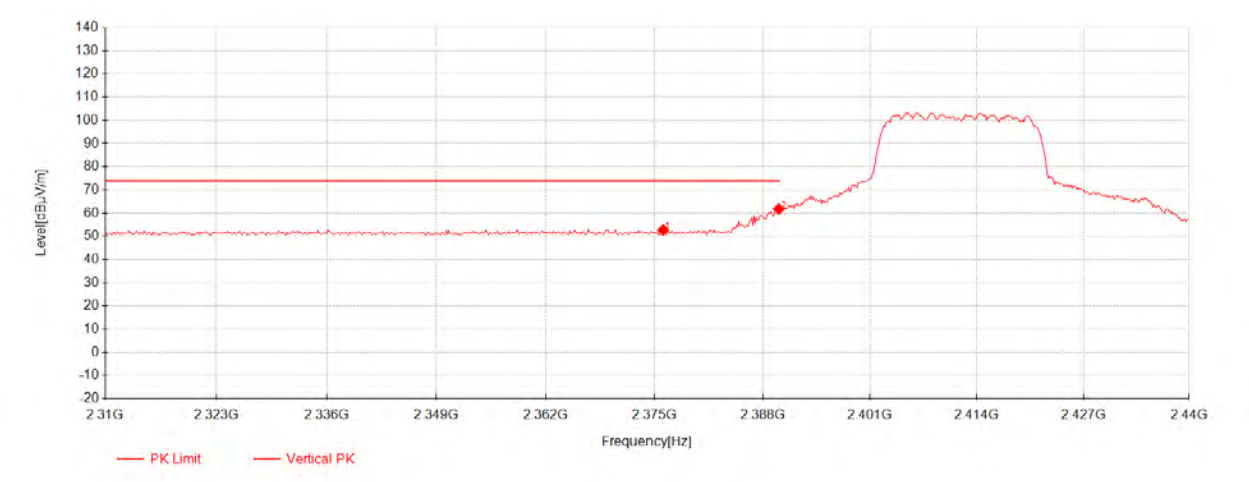
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1	2387.74	62.65	27.15	-23.31	66.49	74.00	7.51	Horizontal
2	2389.69	66.74	27.16	-23.31	70.58	74.00	3.42	Horizontal



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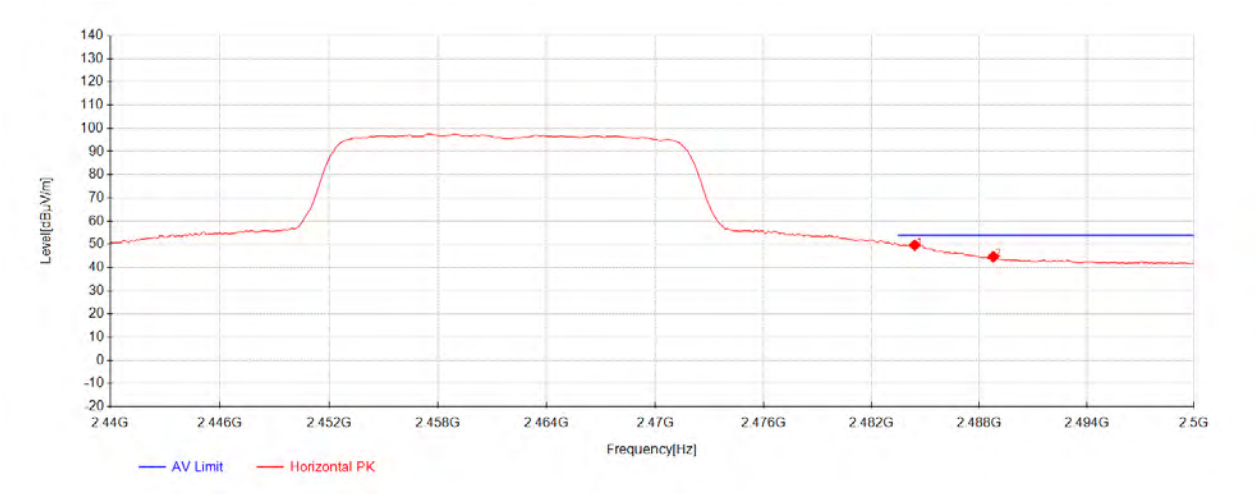
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1	2376.04	48.93	27.13	-23.30	52.75	74.00	21.25	Vertical
2	2389.95	57.91	27.16	-23.31	61.75	74.00	12.25	Vertical



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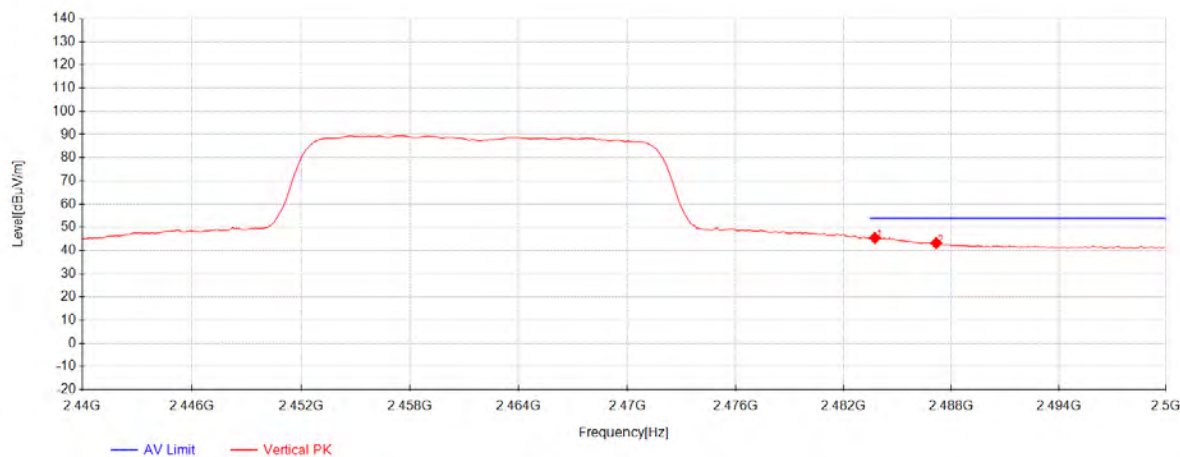
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1	2484.4	45.55	27.37	-23.27	49.65	54.00	4.35	Horizontal
2	2488.78	40.57	27.38	-23.27	44.68	54.00	9.32	Horizontal



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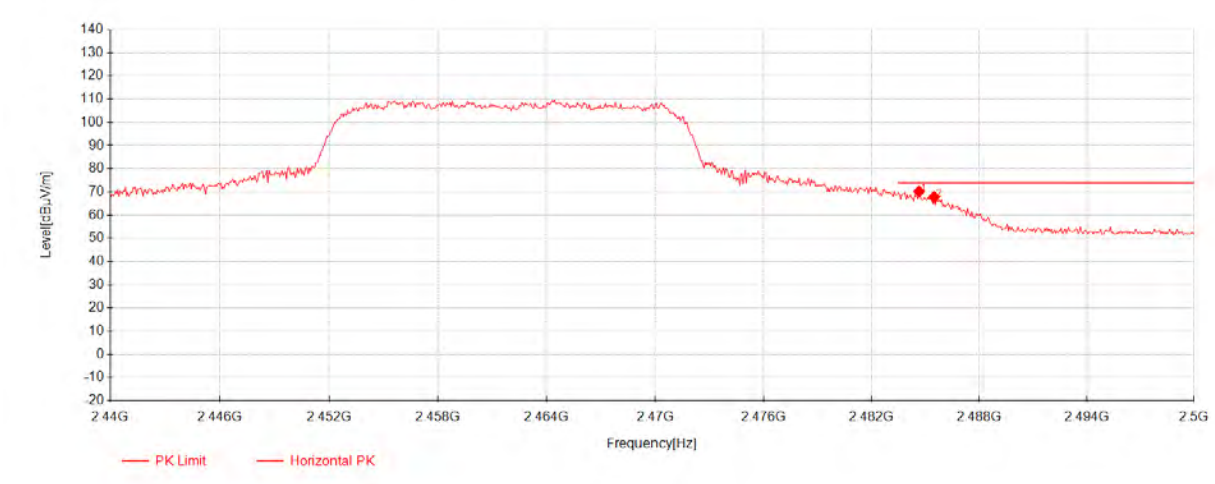
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.74	41.34	27.36	-23.27	45.43	54.00	8.57	Vertical
2	2487.16	39.16	27.37	-23.27	43.26	54.00	10.74	Vertical



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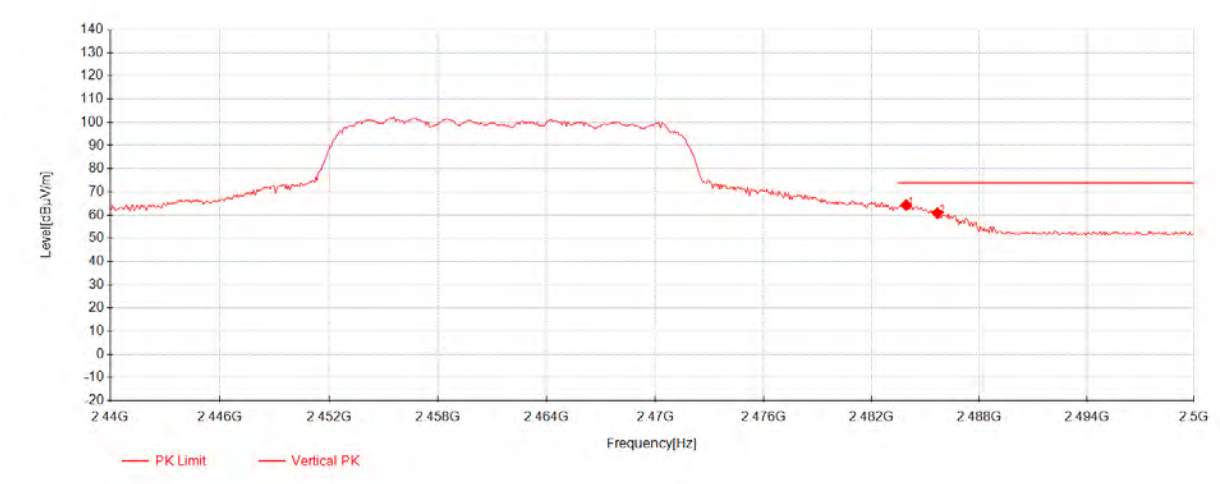
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1	2484.64	66.03	27.37	-23.27	70.13	74.00	3.87	Horizontal
2	2485.48	63.75	27.37	-23.27	67.85	74.00	6.15	Horizontal



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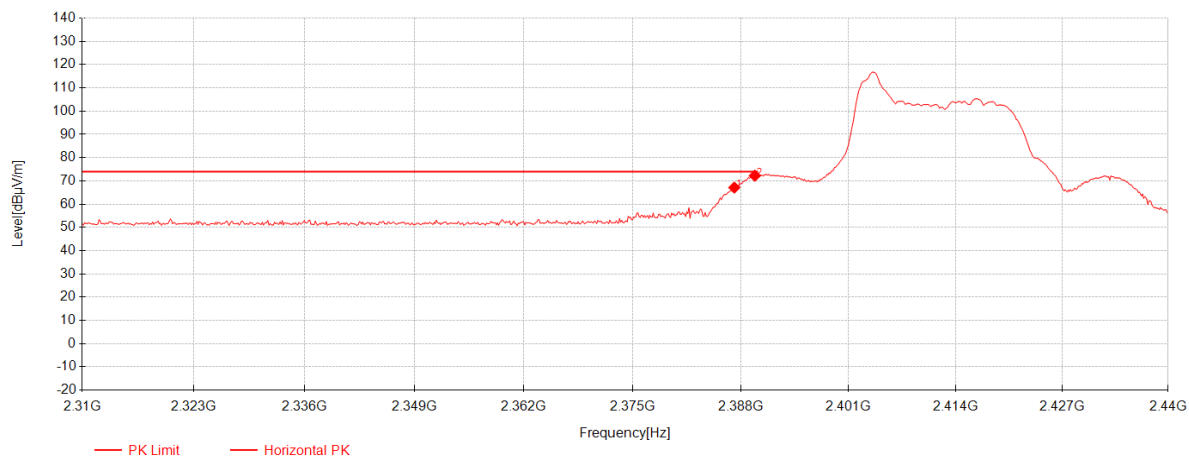
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1	2483.92	60.30	27.36	-23.27	64.39	74.00	9.61	Vertical
2	2485.66	56.81	27.37	-23.27	60.91	74.00	13.09	Vertical



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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2387.22	63.28	27.15	-23.31	67.12	74.00	6.88	Horizontal
2	2389.69	68.39	27.16	-23.31	72.23	74.00	1.77	Horizontal



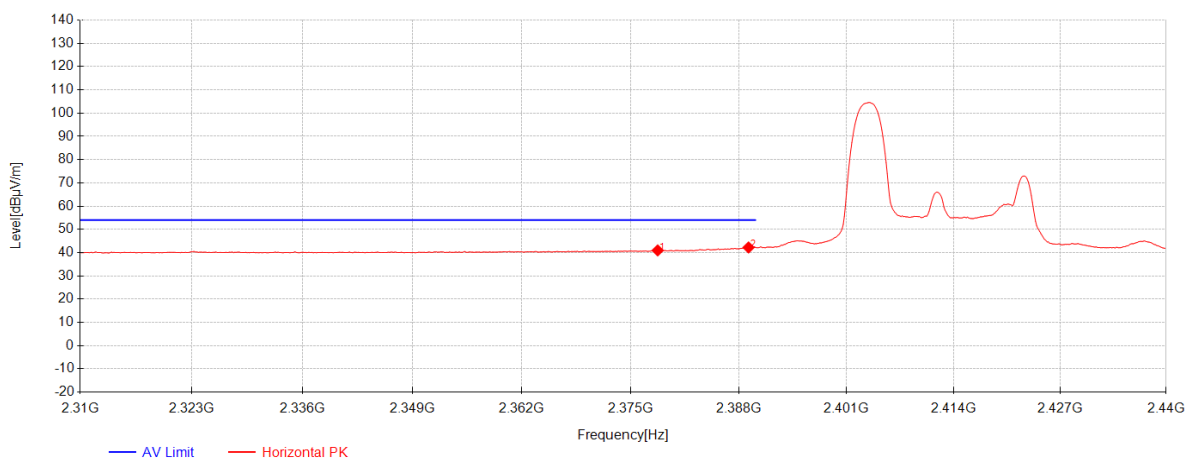
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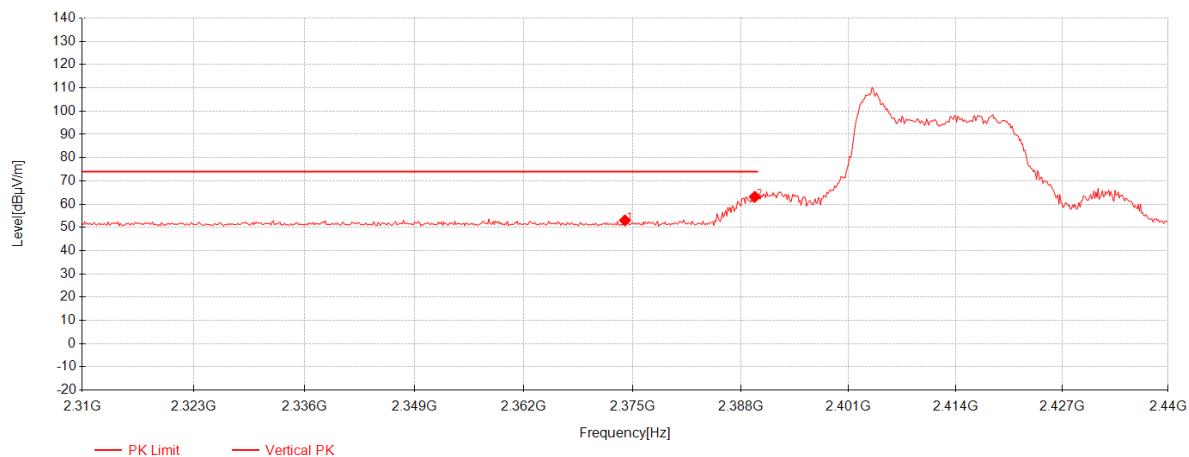
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2378.25	37.13	27.13	-23.30	40.96	54.00	13.04	Horizontal
2	2389.17	38.38	27.16	-23.31	42.22	54.00	11.78	Horizontal



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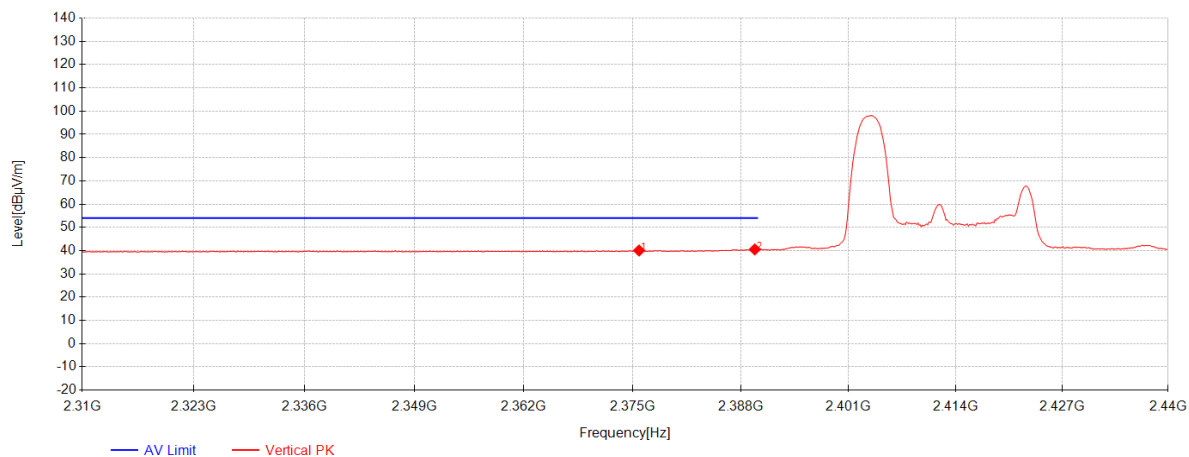
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1	2374.09	49.18	27.12	-23.30	53.00	74.00	21.00	Vertical
2	2389.69	59.33	27.16	-23.31	63.17	74.00	10.83	Vertical



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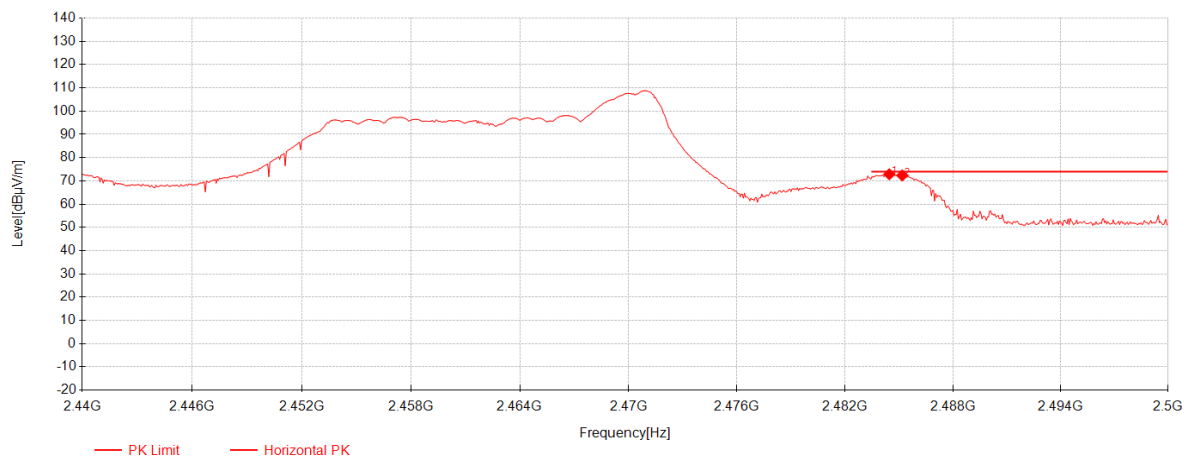
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1	2375.78	36.24	27.13	-23.30	40.06	54.00	13.94	Vertical
2	2389.69	36.68	27.16	-23.31	40.52	54.00	13.48	Vertical



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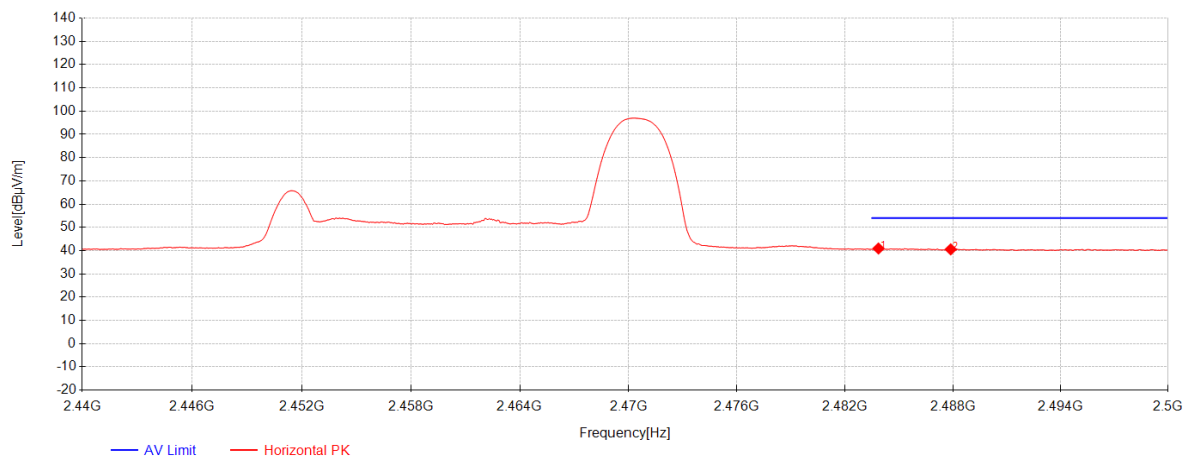
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1	2484.46	68.75	27.37	-23.27	72.85	74.00	1.15	Horizontal
2	2485.18	68.24	27.37	-23.27	72.34	74.00	1.66	Horizontal



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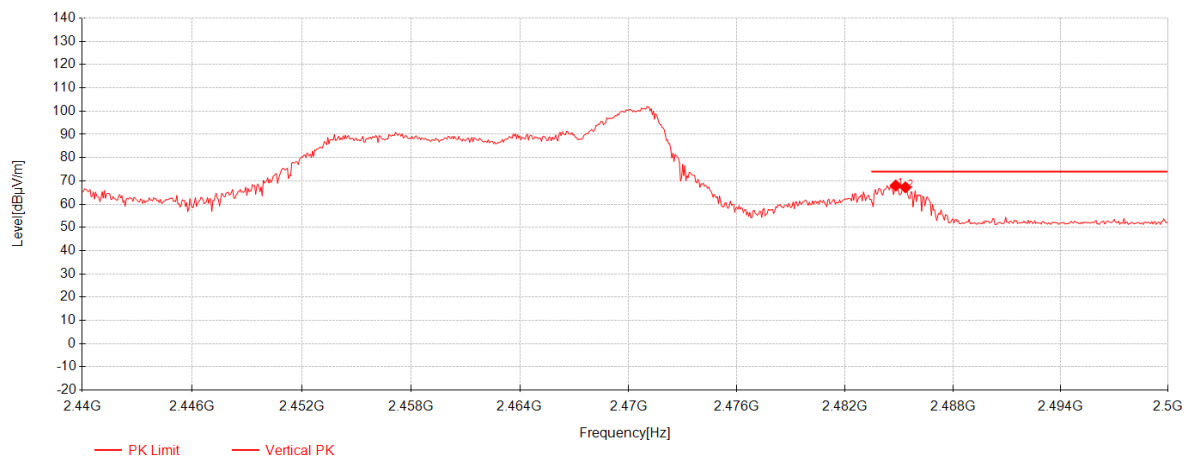
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NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.86	36.83	27.36	-23.27	40.92	54.00	13.08	Horizontal
2	2487.88	36.44	27.37	-23.27	40.55	54.00	13.45	Horizontal



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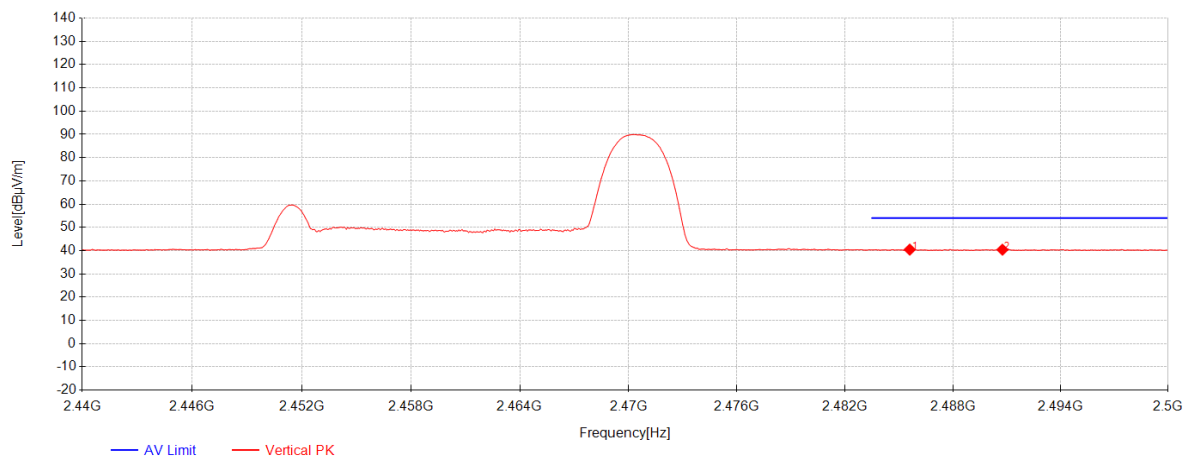
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1	2484.82	63.91	27.37	-23.27	68.01	74.00	5.99	Vertical
2	2485.36	63.12	27.37	-23.27	67.22	74.00	6.78	Vertical



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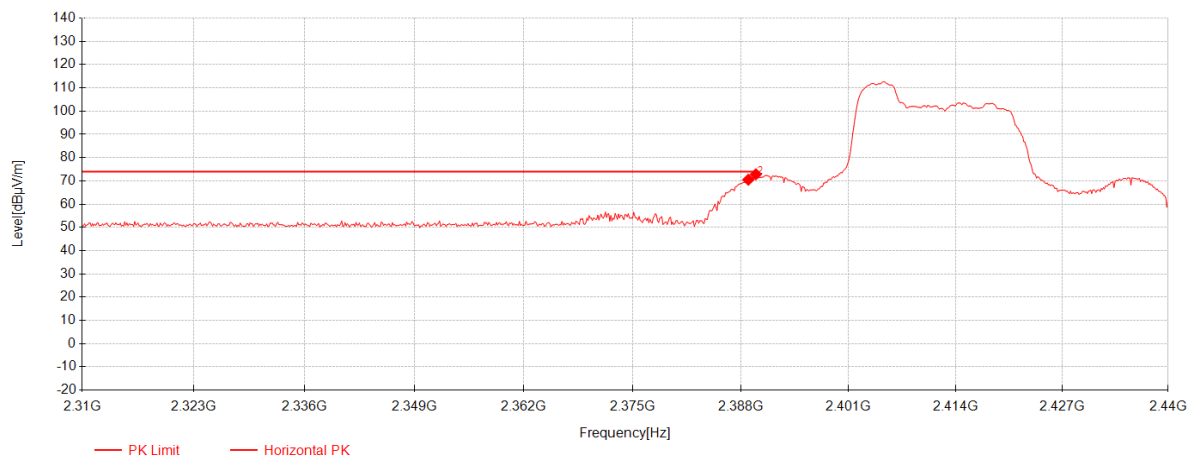
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1	2485.6	36.34	27.37	-23.27	40.44	54.00	13.56	Vertical
2	2490.76	36.29	27.38	-23.27	40.40	54.00	13.60	Vertical



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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2388.91	66.67	27.16	-23.31	70.51	74.00	3.49	Horizontal
2	2389.82	69.00	27.16	-23.31	72.84	74.00	1.16	Horizontal



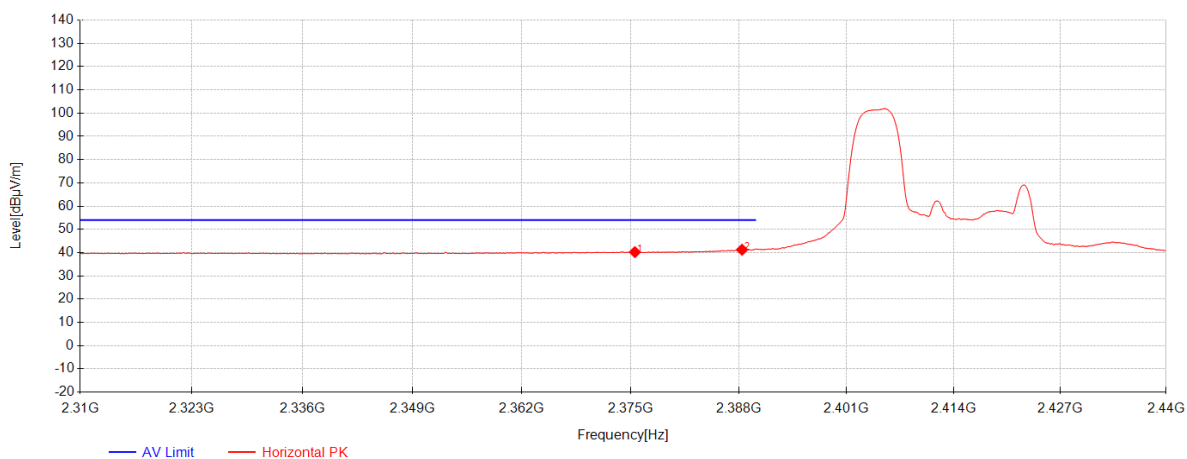
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2375.52	36.41	27.13	-23.30	40.23	54.00	13.77	Horizontal
2	2388.39	37.41	27.15	-23.31	41.25	54.00	12.75	Horizontal



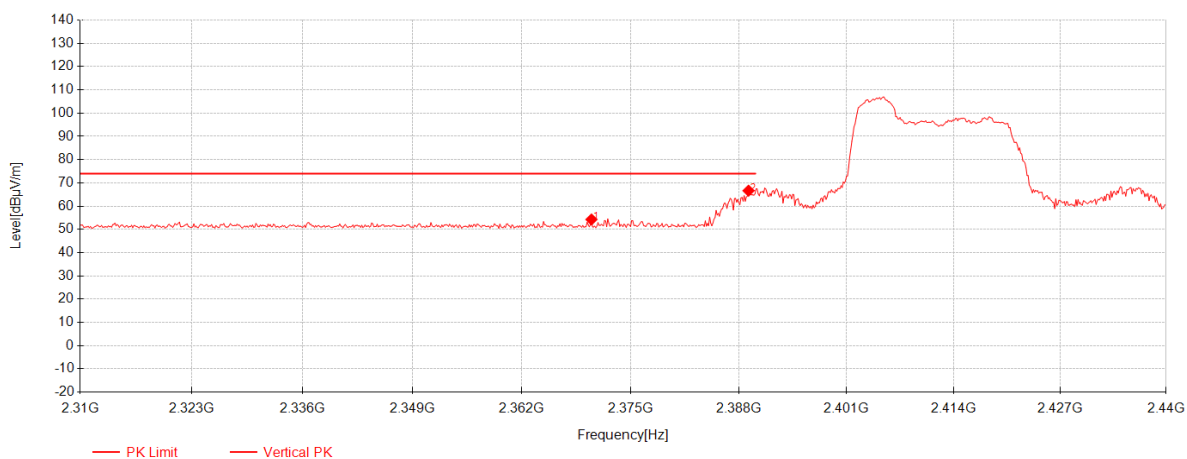
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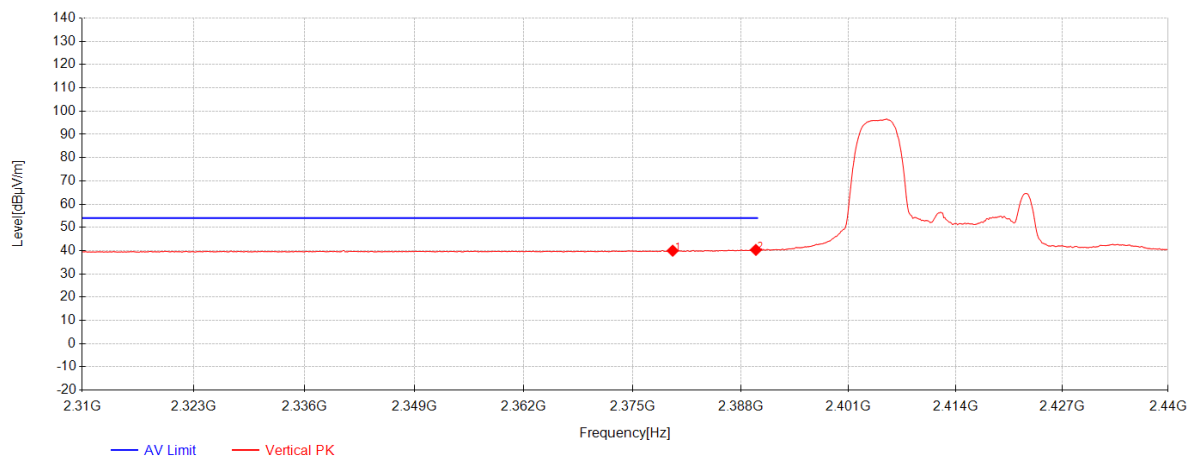
Data List								
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1	2370.32	50.45	27.11	-23.30	54.27	74.00	19.73	Vertical
2	2389.17	62.80	27.16	-23.31	66.64	74.00	7.36	Vertical



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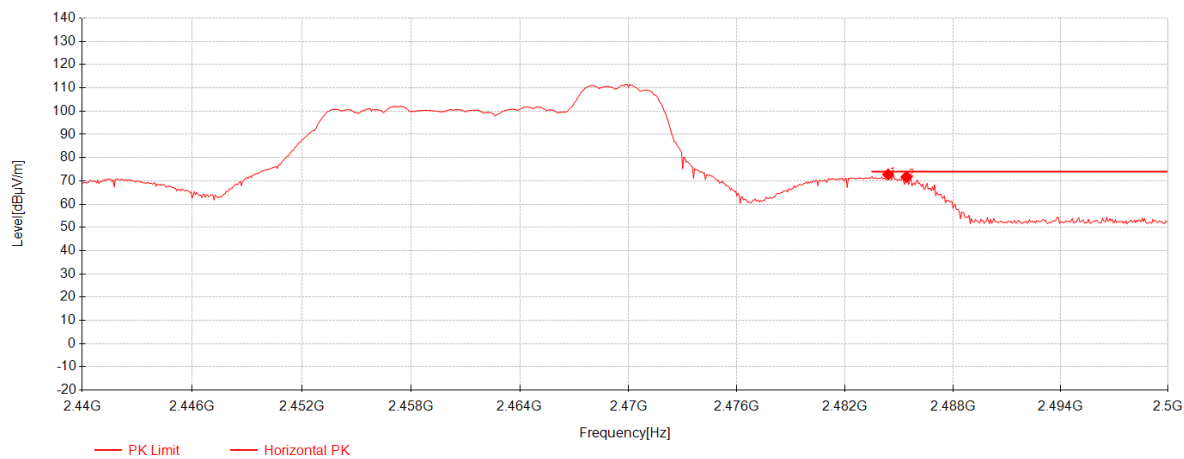
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1	2379.81	36.13	27.14	-23.31	39.96	54.00	14.04	Vertical
2	2389.82	36.47	27.16	-23.31	40.31	54.00	13.69	Vertical



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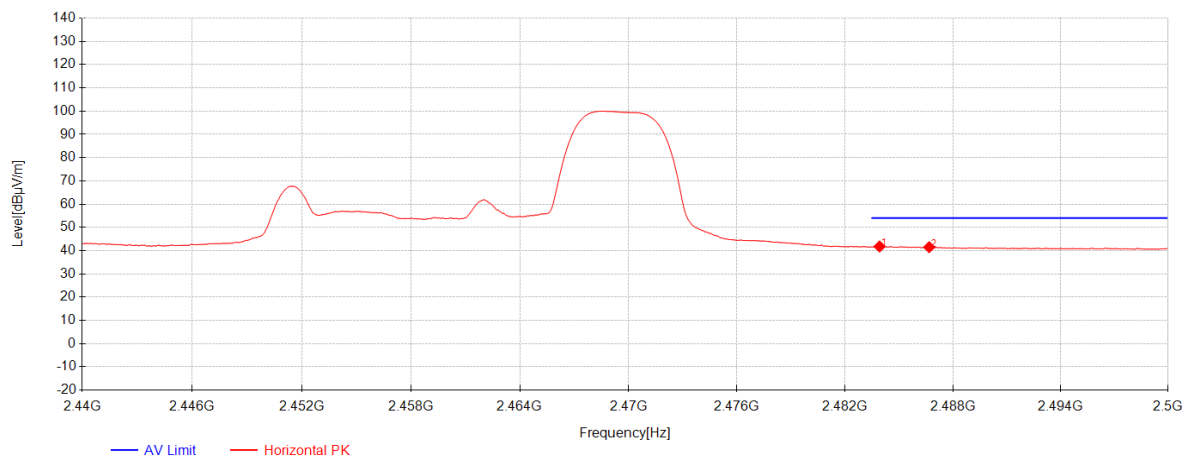
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NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2484.4	68.66	27.37	-23.27	72.76	74.00	1.24	Horizontal
2	2485.42	67.62	27.37	-23.27	71.72	74.00	2.28	Horizontal



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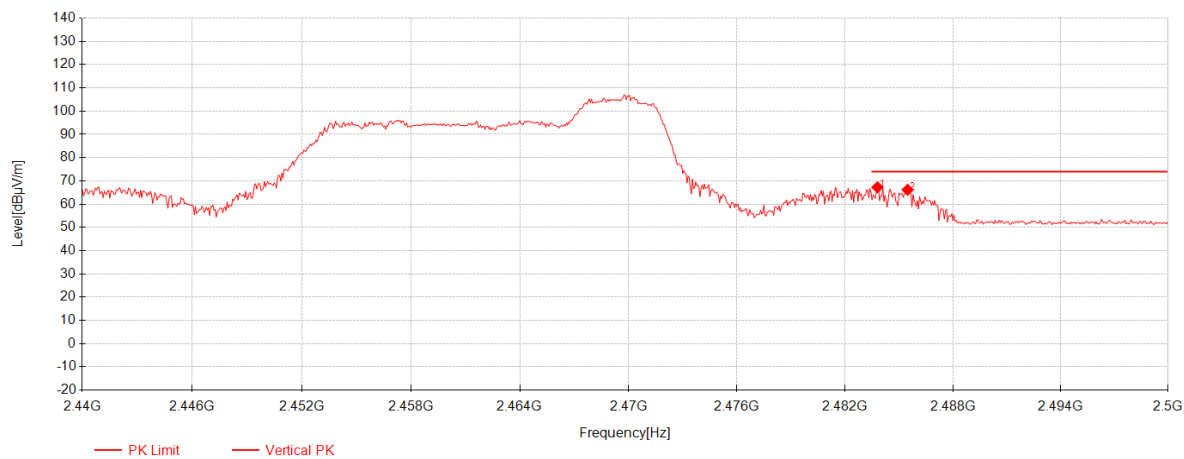
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1	2483.92	37.70	27.36	-23.27	41.79	54.00	12.21	Horizontal
2	2486.68	37.40	27.37	-23.27	41.50	54.00	12.50	Horizontal



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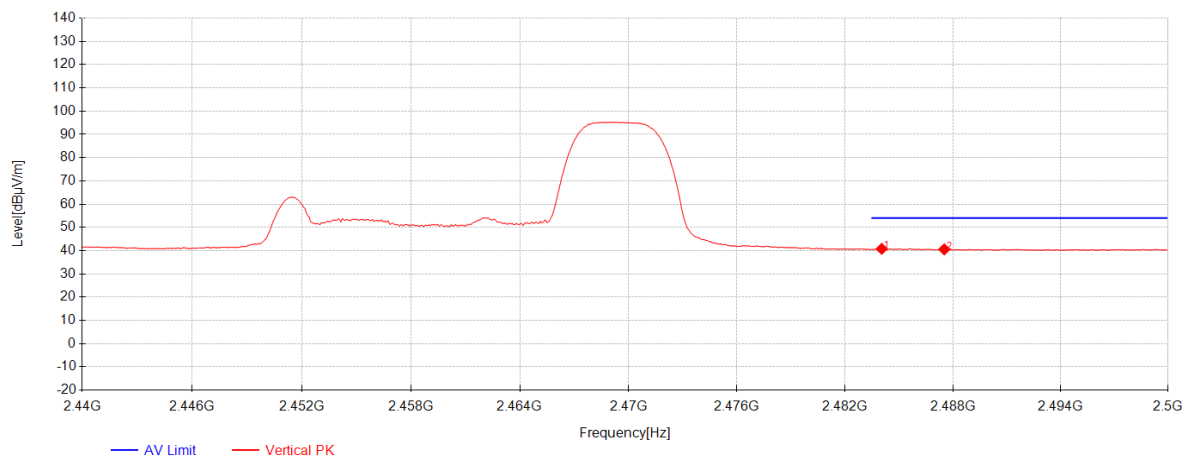
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1	2483.8	63.17	27.36	-23.27	67.26	74.00	6.74	Vertical
2	2485.48	62.08	27.37	-23.27	66.18	74.00	7.82	Vertical



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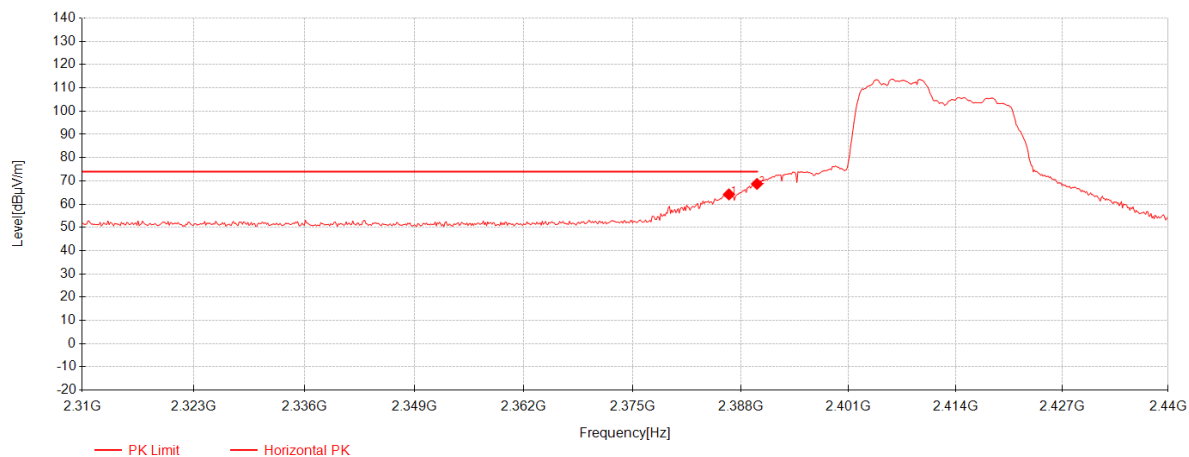
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1	2484.04	36.68	27.36	-23.27	40.78	54.00	13.22	Vertical
2	2487.52	36.44	27.37	-23.27	40.55	54.00	13.45	Vertical



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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2386.57	60.35	27.15	-23.31	64.19	74.00	9.81	Horizontal
2	2389.95	64.86	27.16	-23.31	68.70	74.00	5.30	Horizontal



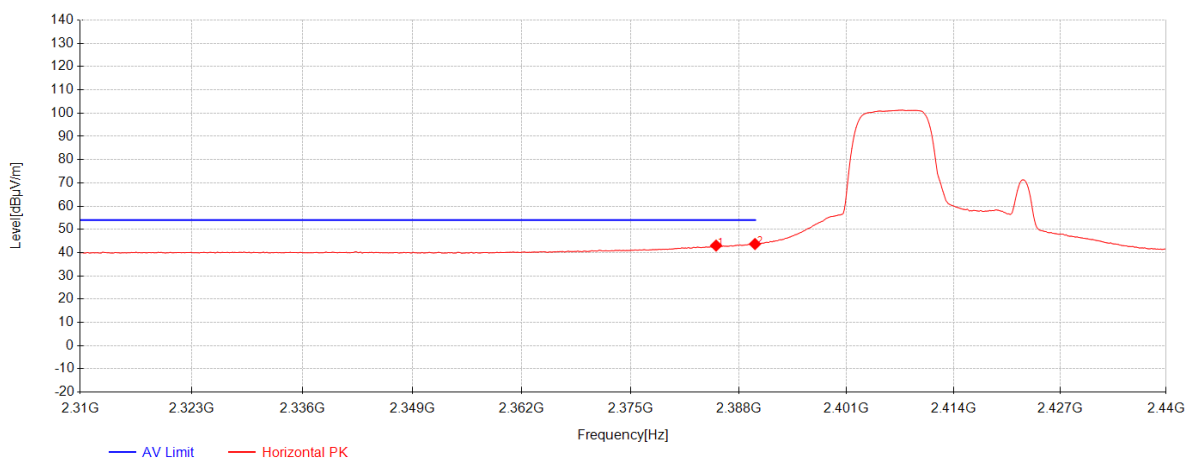
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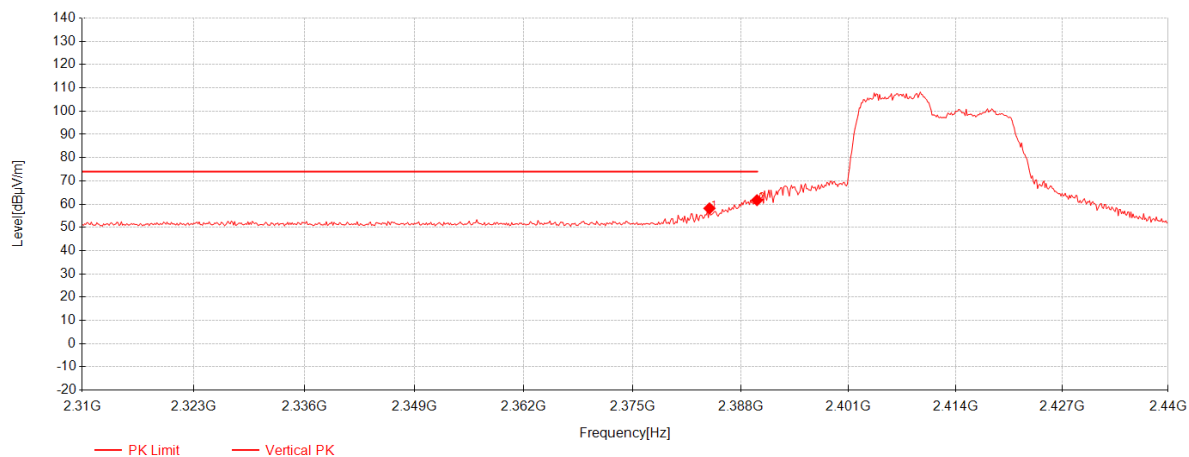
Data List								
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1	2385.27	39.19	27.15	-23.31	43.03	54.00	10.97	Horizontal
2	2389.95	39.86	27.16	-23.31	43.70	54.00	10.30	Horizontal



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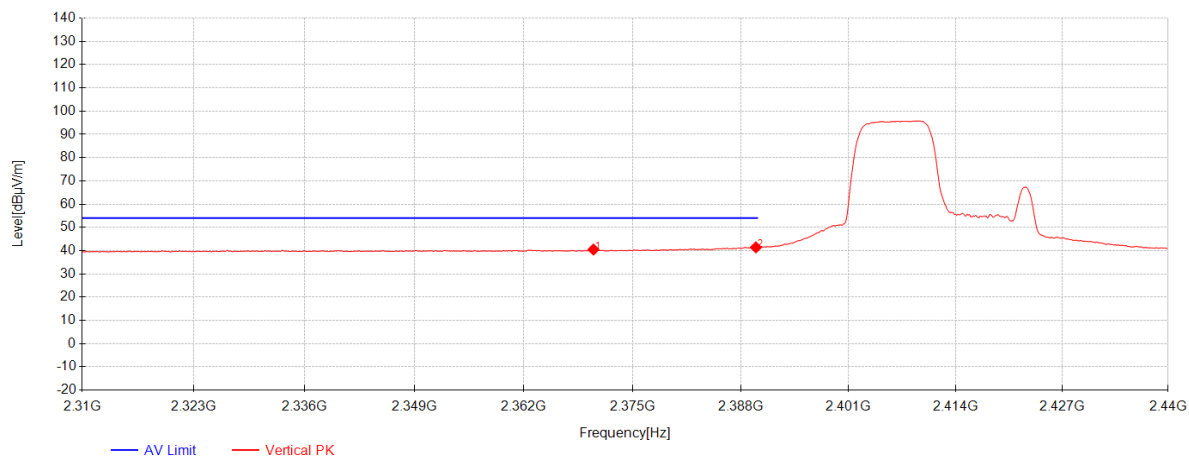
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1	2384.23	54.33	27.15	-23.31	58.17	74.00	15.83	Vertical
2	2389.95	57.85	27.16	-23.31	61.69	74.00	12.31	Vertical



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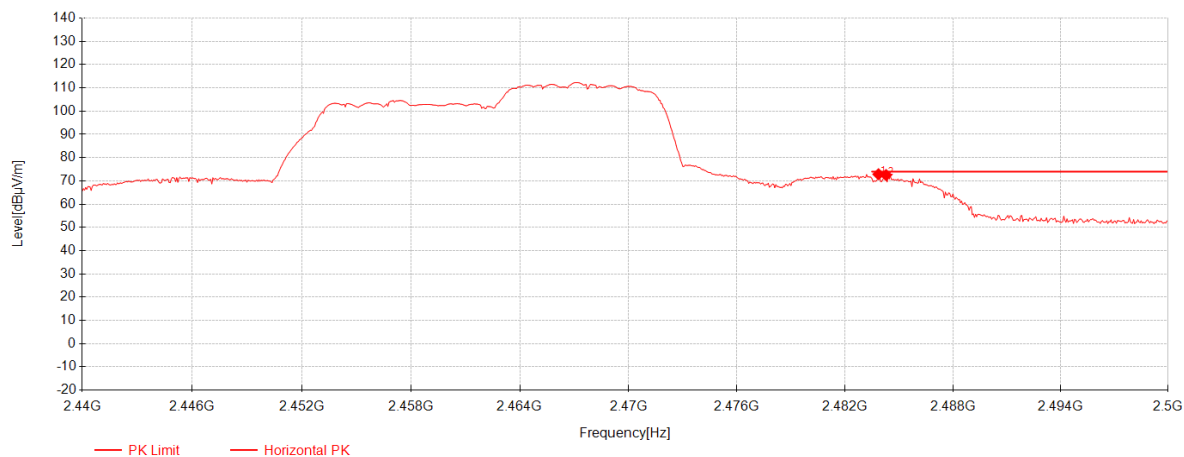
Data List								
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1	2370.32	36.65	27.11	-23.30	40.47	54.00	13.53	Vertical
2	2389.82	37.55	27.16	-23.31	41.39	54.00	12.61	Vertical



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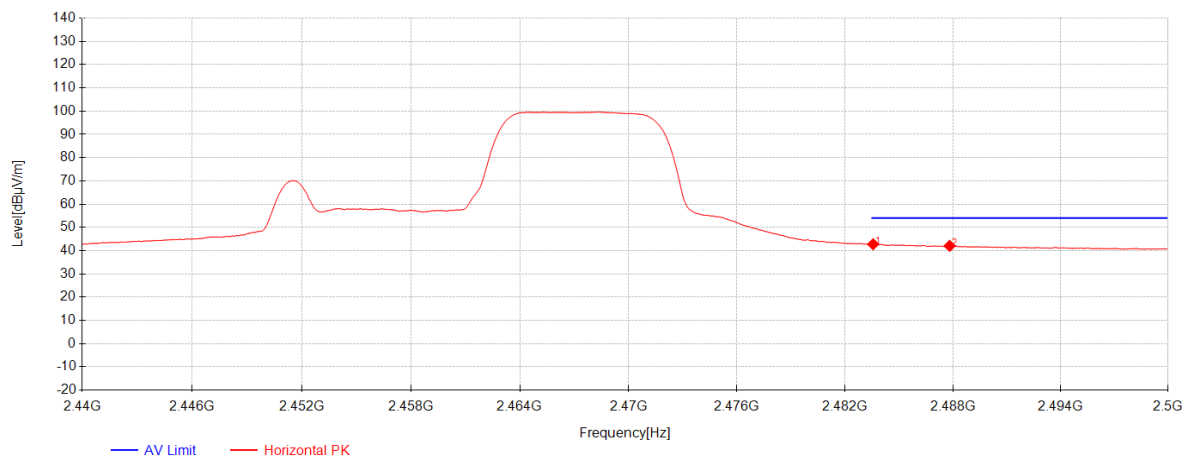
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1	2483.86	68.77	27.36	-23.27	72.86	74.00	1.14	Horizontal
2	2484.28	68.41	27.37	-23.27	72.51	74.00	1.49	Horizontal



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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.56	38.66	27.36	-23.27	42.75	54.00	11.25	Horizontal
2	2487.82	37.94	27.37	-23.27	42.05	54.00	11.95	Horizontal



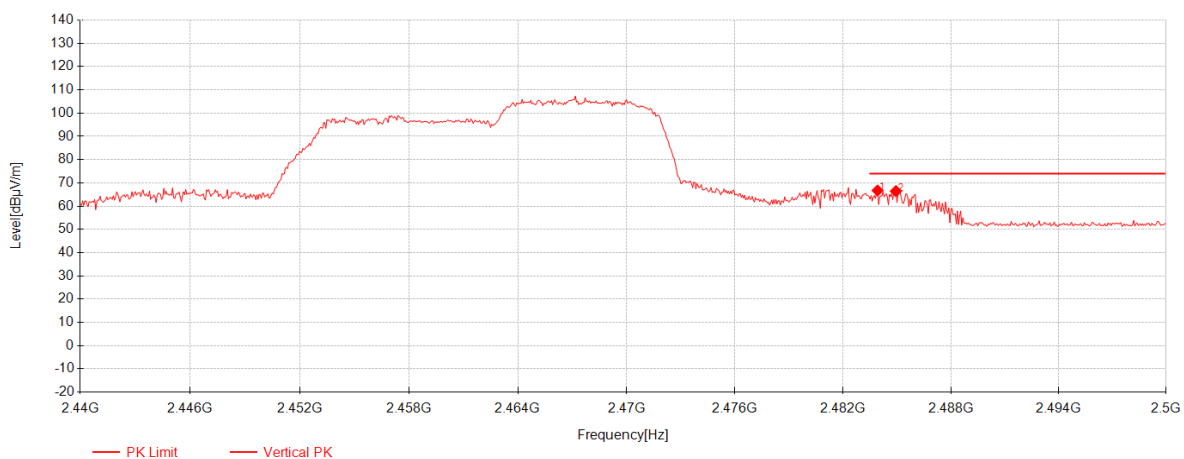
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.92	62.63	27.36	-23.27	66.72	74.00	7.28	Vertical
2	2484.94	62.35	27.37	-23.27	66.45	74.00	7.55	Vertical



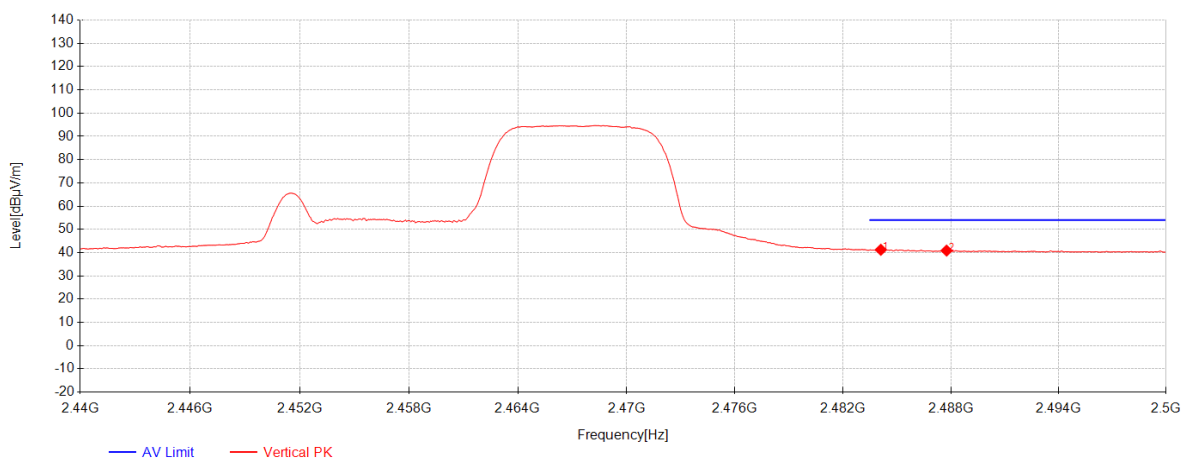
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

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802.11ax HE20 RU106 Right_Channel 11



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2484.1	37.13	27.37	-23.27	41.23	54.00	12.77	Vertical
2	2487.76	36.77	27.37	-23.27	40.88	54.00	13.12	Vertical

Remark:

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

Level = Reading(dBμV) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit(dBμV/m) – Level(dBμV/m)

- 2) Both peak and average measured complies with the limit line, so test result is "PASS"

---End of Report---