

# TEST REPORT

**Application No.:** SEWM2203000022RG  
**Applicant:** COOSEA GROUP (HK) COMPANY LIMITED  
**Address of Applicant:** UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE  
 TSIMSHATSUI KL, HONG KONG, CHINA  
**Manufacturer:** COOSEA GROUP (HK) COMPANY LIMITED  
**Address of Manufacturer:** UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE  
 TSIMSHATSUI KL, HONG KONG, CHINA  
**EUT Description:** Mobile Phone  
**Model No.:** SL101AE  
**Trade Mark:** Cricket  
**FCC ID:** 2A28USL101AE  
**Standards:** FCC 47 CFR Part 2, Subpart J  
 FCC 47 CFR Part 15, Subpart C  
**Date of Receipt:** 2022/3/23  
**Date of Test:** 2022/3/31 to 2022/5/23  
**Date of Issue:** 2022/6/27

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

Authorized Signature:

Panta Sun  
 Wireless Laboratory Manager



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# 1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022/6/27		Original

<b>Prepared By</b>		 <hr/> (Weller Liu) / Test Supervisor
<b>Checked By</b>		 <hr/> (Well Wei) / Reviewer



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## 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	--	--	Clause 4.3	Reporting only
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013 Section 11.9.2.3	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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### 3 General Information

#### 3.1 Details of Client

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Address of Applicant:	UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL, HONG KONG, CHINA
Manufacturer:	COOSEA GROUP (HK) COMPANY LIMITED
Address of Manufacturer:	UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL, HONG KONG, CHINA

#### 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:	Tizy Song, Ives Cheng

#### 3.3 Test Facility

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

<ul style="list-style-type: none"> <li> <b>A2LA (Certificate No. 6336.01)</b>            SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.         </li> <li> <b>Innovation, Science and Economic Development Canada</b>            SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.            CAB identifier: CN0120.            IC#: 27594.         </li> <li> <b>FCC –Designation Number: CN1312</b>            SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.            Designation Number: CN1312.            Test Firm Registration Number: 717327         </li> </ul>
--



### 3.4 General Description of EUT

EUT Description:	Mobile Phone	
Model No.:	SL101AE	
Trade Mark:	Cricket	
Hardware Version:	1.0	
Software Version:	SL101AEC10004	
Operation Frequency:	802.11b/g/n(HT20):	2412MHz to 2472MHz
	802.11n(HT40):	2422MHz to 2462MHz
Modulation Type:	802.11b:	DSSS (DBPSK, DQPSK, CCK)
	802.11g/n:	OFDM (BPSK, QPSK, 16QAM, 64QAM)
Number of Channels:	802.11b/g/n(HT20): 13 802.11n(HT40): 9	
Channel Spacing:	5MHz	
Smart System:	<input checked="" type="checkbox"/> SISO	802.11b/g/n
	<input type="checkbox"/> MIMO	CDD: 802.11b/g/n: Tx & Rx
		STBC: 802.11n: Tx & Rx
		TXBF: 802.11n: Tx & Rx
<input type="checkbox"/> Diversity	802.11b/g : Tx & Rx	
Antenna Type:	<input type="checkbox"/> External, <input checked="" type="checkbox"/> Integrated	
Antenna Gain*:	<input checked="" type="checkbox"/> Provided by client	
	0.6dBi(Ant 2);	
RF Cable*:	<input checked="" type="checkbox"/> Provided by client	
	1 dB	
<p>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.</p> <p>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.</p>		



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				



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### 3.5 Test Environment and Mode

Environment Parameter	101 kPa Selected Values During Tests	
Relative Humidity	44-60 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~25	3.8
LTNV	-10	3.8
HTNV	55	3.8

Remark:  
 NV: Normal Voltage  
 NT: Normal Temperature  
 LT: Low Extreme Test Temperature  
 HT: High Extreme Test 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)	/





## 4 Test results and Measurement Data

### 4.1 Antenna Requirement

<b>Standard requirement:</b>	47 CFR Part 15C Section 15.203 /247(b)
<p>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.</p> <p>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.</p>	
<p>The antenna is integrated and no consideration of replacement. The best case gain of the antenna is 0.6dBi.</p>	



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### 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:	<p>1) The mains terminal disturbance voltage test was conducted in a shielded room.</p> <p>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.</p> <p>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,</p> <p>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.</p>		



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



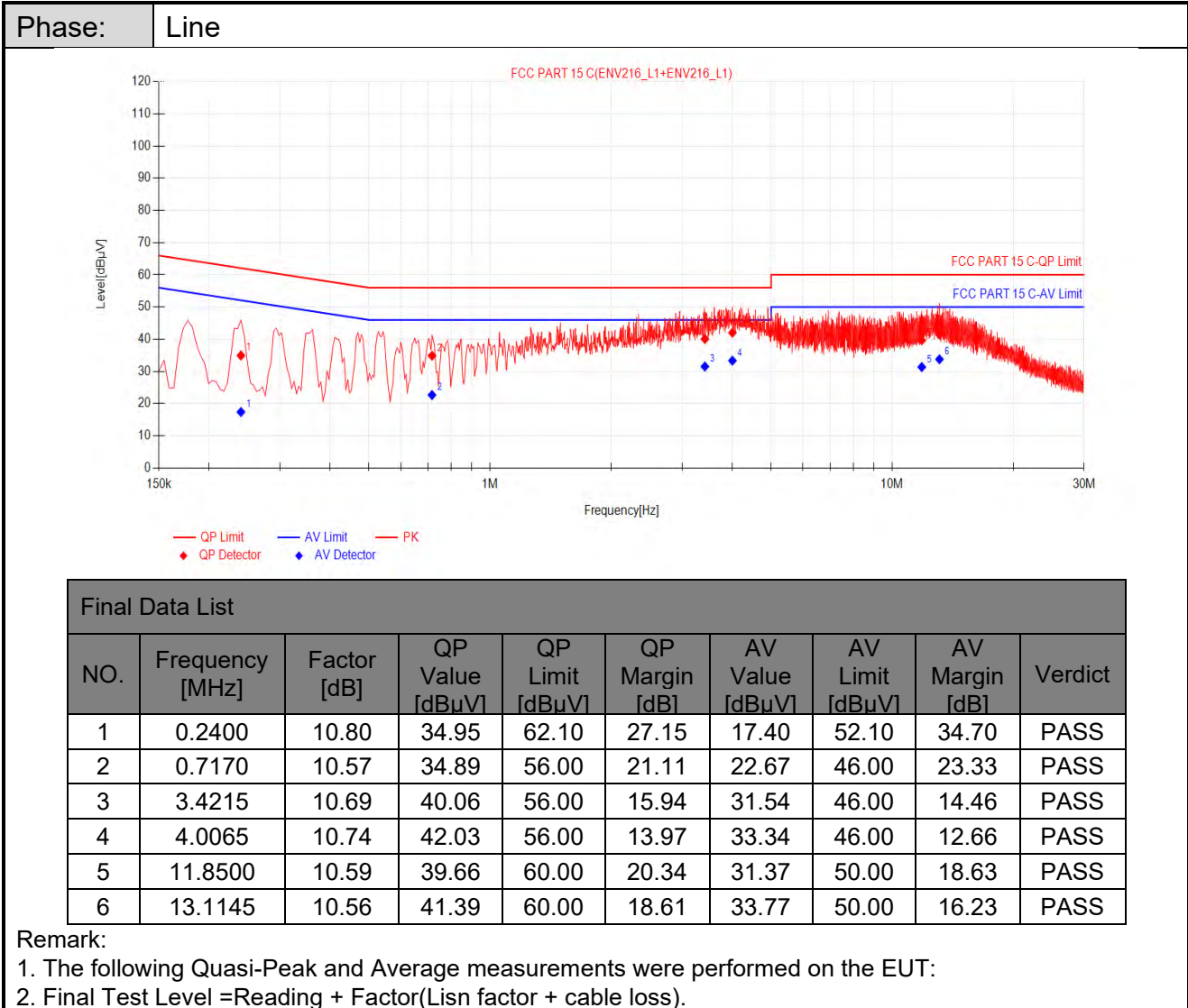
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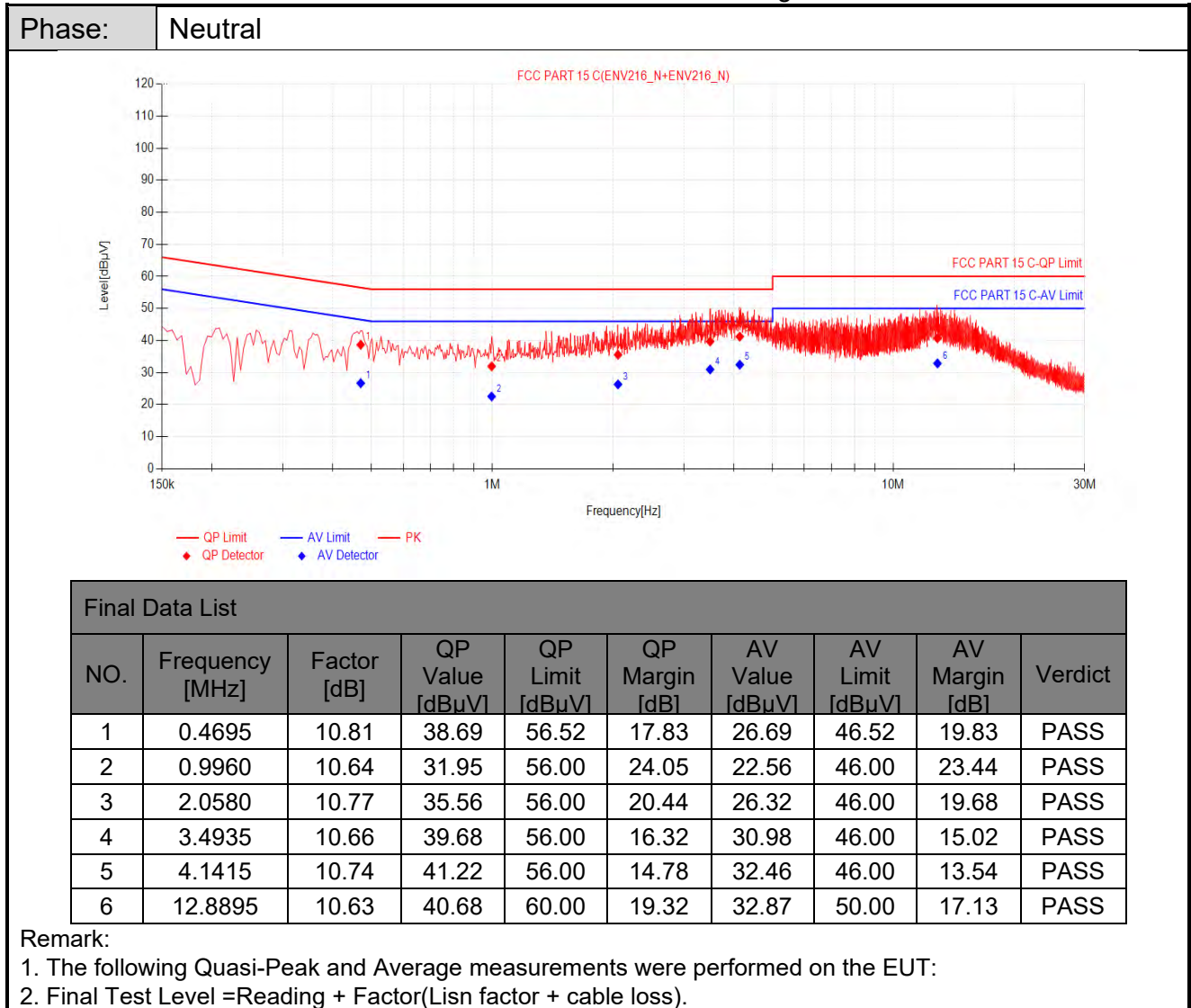
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Measurement Data

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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### 4.3 Duty Cycle

The detailed test data see: **Appendix**



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### 4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 :2013 Section 11.9.2.3
Test Setup:	<p>* Test with power meter (Detector function: Peak)</p>
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: <b>Appendix</b>	



### 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
Test Results:	Pass
The detailed test data see: <b>Appendix</b>	





### 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:	≤8.00dBm/3kHz
Test Results:	Pass
The detailed test data see: <b>Appendix</b>	



### 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: <b>Appendix</b>	



### 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: <b>Appendix</b>	



### 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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Test Setup:

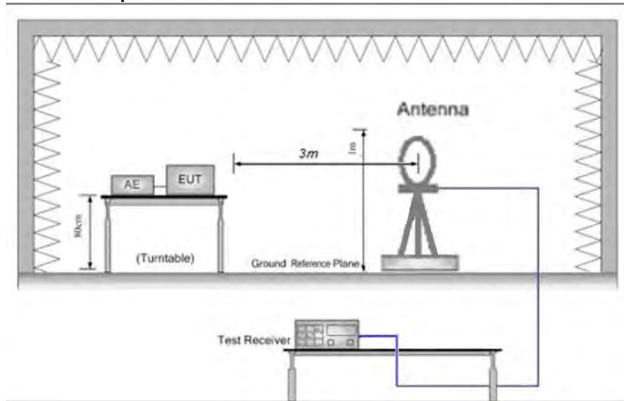


Figure 1. Below 30MHz

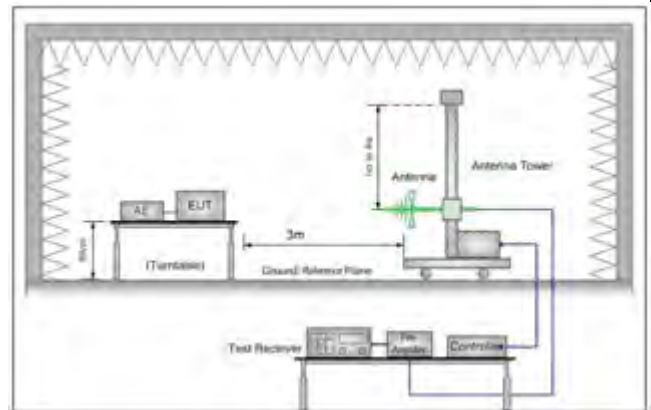


Figure 2. 30MHz to 1GHz

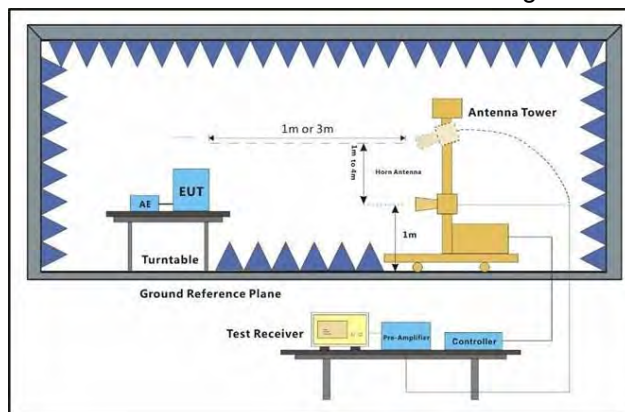


Figure 3. Above 1 GHz

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



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	<p>Bandwidth with Maximum Hold Mode.</p> <p>g. Test the EUT in the lowest channel, the middle channel ,the Highest channel.</p> <p>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.</p> <p>i. Repeat above procedures until all frequencies measured was complete.</p> <p>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</p> <p>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.</p> <p>l. At a measurement distance of 1 meter the limit line was increased by <math>20 \cdot \text{LOG}(3/1) = 9.54</math> dB.</p>
Test Configuration:	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 120 kHz</li> <li>• VBW = 300 kHz</li> <li>• Detector = Peak</li> <li>• Trace mode = max hold</li> </ul> <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW <math>\geq</math> 3 MHz</li> <li>• Detector = Peak</li> <li>• Sweep time = auto</li> <li>• Trace mode = max hold</li> </ul> <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW <math>\geq</math> [3 *RBW]</li> <li>• Detector = RMS (power averaging), if span / (# of points in sweep) <math>\leq</math> (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.</li> <li>• Sweep time = auto</li> <li>• Perform a trace average of at least 100 traces.</li> </ul> <p>Value = Reading + Factor(Antenna Factor + Cable loss – Pre-amplifier Factor).</p>
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.
Test Results:	Pass
The detailed test data see: <b>Appendix</b>	



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### 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:

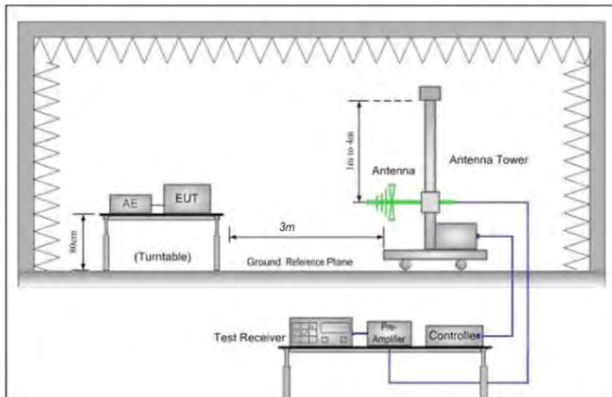


Figure 1. 30MHz to 1GHz

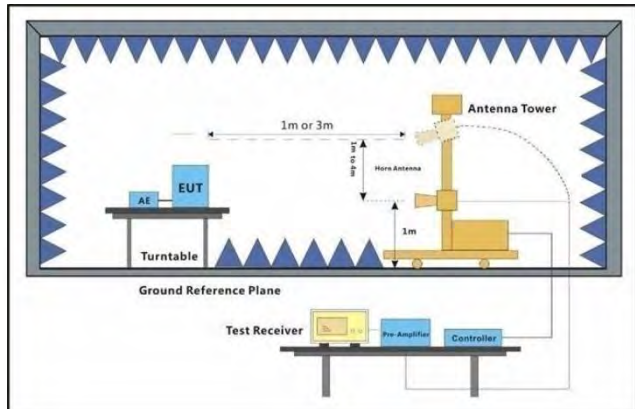


Figure 2. Above 1 GHz



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<p>Test Procedure:</p>	<ol style="list-style-type: none"> <li>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.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>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</li> <li>Test the EUT in the lowest channel , the Highest channel</li> <li>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.</li> <li>Repeat above procedures until all frequencies measured was complete.</li> </ol>
<p>Test Configuration:</p>	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 120 kHz</li> <li>• VBW = 300 kHz</li> <li>• Detector = Peak</li> <li>• Trace mode = max hold</li> </ul> <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW ≥ 3 MHz</li> <li>• Detector = Peak</li> <li>• Sweep time = auto</li> <li>• Trace mode = max hold</li> </ul> <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW ≥ [3 *RBW]</li> <li>• Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.</li> <li>• Sweep time = auto</li> <li>• Perform a trace average of at least 100 traces.</li> </ul> <p>Value = Reading + Factor(Antenna Factor + Cable loss).</p>
<p>Exploratory Test Mode:</p>	<p>Transmitting with all kind of modulations, data rates.</p>



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	Charge + 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: <b>Appendix</b>	



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

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.54dB
2	RF power density, conducted	±1.03dB
3	Spurious emissions, conducted	±0.54dB
4	Radio Frequency	1.0%
5	Duty Cycle	±0.37%
6	Occupied Bandwidth	1.0%
7	Conduction Emission	± 2.90dB (150kHz to 30MHz)
8	Radiated Emission	± 3.13dB (9k -30MHz)
		± 4.80dB (30M -1GHz)
		± 4.80dB (1GHz to 18GHz)
		± 4.80dB (Above 18GHz)



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## 6 Equipment List

RF Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/5/8	2024/5/7
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2022/2/16	2023/2/15
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2021/5/28	2022/5/27
Measurement Software	Tonscend	JS1120-3 Test System V 3.1.55	SUWI-02-09-09	NCR	NCR
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	2022/2/14	2023/2/13
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/2/15	2023/2/14
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2021/12/4	2022/12/3
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2021/12/4	2022/12/3

CE Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/5/8	2024/5/7
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2022/2/19	2023/2/18
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2022/2/19	2023/2/18
Measurement Software	Tonscend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/2/19	2023/2/18
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2022/2/16	2023/2/15



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9*6*6 Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/5/8	2024/5/7
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2022/2/16	2023/2/15
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2021/5/28	2022/5/27
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-05	2021/12/4	2022/12/3
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/2/19	2023/2/18
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/5/16	2023/5/15
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/5/16	2023/5/15
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/5/14	2023/5/13
Active Loop Antenna	SCHWRZBECK MESS- ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/6/10	2023/6/9
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2022/2/14	2023/2/13
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2022/2/14	2023/2/13
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2022/2/19	2023/2/18
Measurement Software	Tonscend	JS32-RE V4.0.0.0	SUWI-02-09-04	NCR	NCR
Measurement Software	Tonscend	JS32-RSE 4.0.0.1	SUWI-02-09-06	NCR	NCR



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## 7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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# Appendix



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**DTS Bandwidth  
Test Result**

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant 2	2412	8.04	2407.96	2416.00	≥0.5	PASS
		2437	8.08	2432.92	2441.00	≥0.5	PASS
		2462	7.60	2457.92	2465.52	≥0.5	PASS
11G	Ant 2	2412	15.72	2403.84	2419.56	≥0.5	PASS
		2417	15.44	2409.08	2424.52	≥0.5	PASS
		2437	15.12	2429.44	2444.56	≥0.5	PASS
		2462	15.44	2454.44	2469.88	≥0.5	PASS
11N20SISO	Ant 2	2412	16.04	2403.48	2419.52	≥0.5	PASS
		2437	15.08	2429.44	2444.52	≥0.5	PASS
		2462	15.96	2454.44	2470.40	≥0.5	PASS
11N40SISO	Ant 2	2422	35.12	2404.48	2439.60	≥0.5	PASS
		2427	35.20	2409.40	2444.60	≥0.5	PASS
		2432	35.20	2414.40	2449.60	≥0.5	PASS
		2437	35.04	2419.48	2454.52	≥0.5	PASS
		2447	35.12	2429.48	2464.60	≥0.5	PASS
		2452	35.12	2434.40	2469.52	≥0.5	PASS



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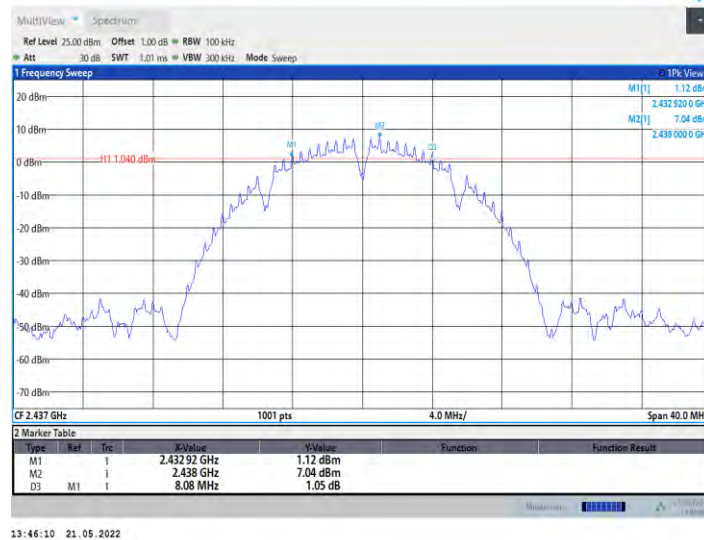
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Test Graphs

11B Ant 2 2412



11B Ant 2 2437



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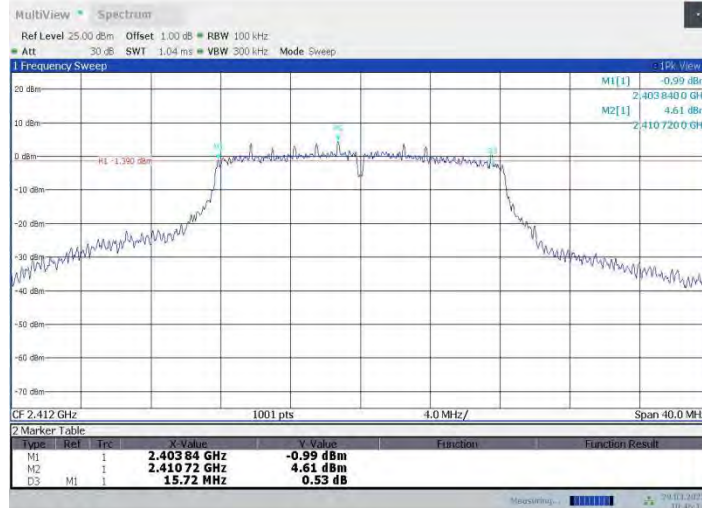


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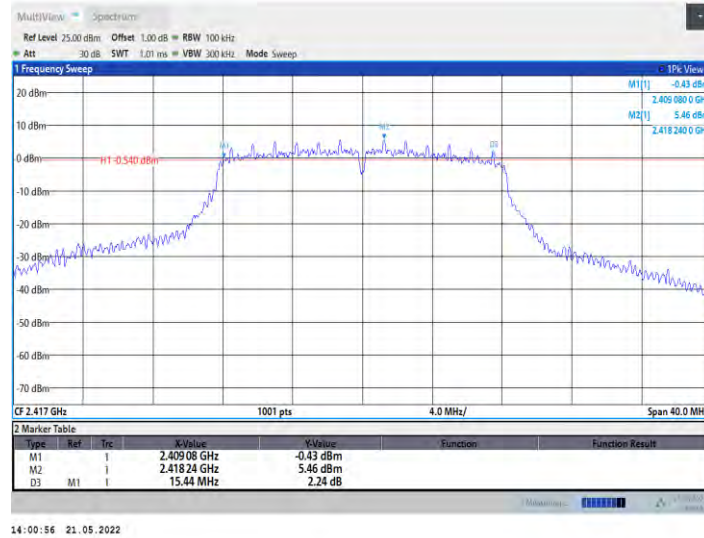


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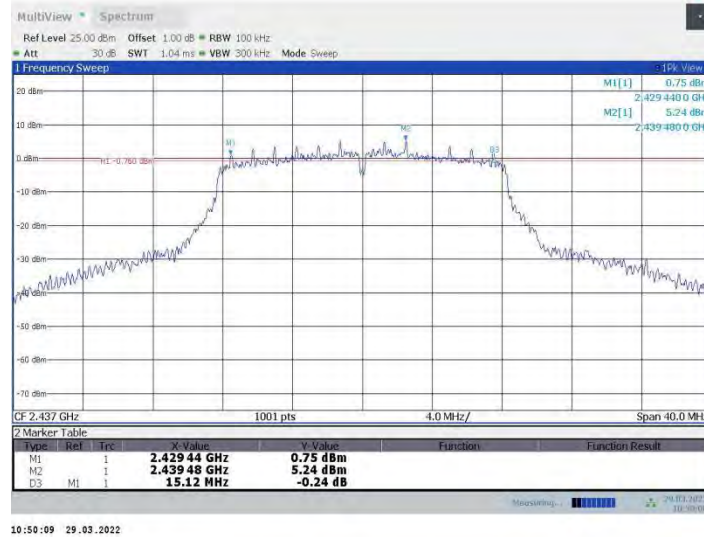
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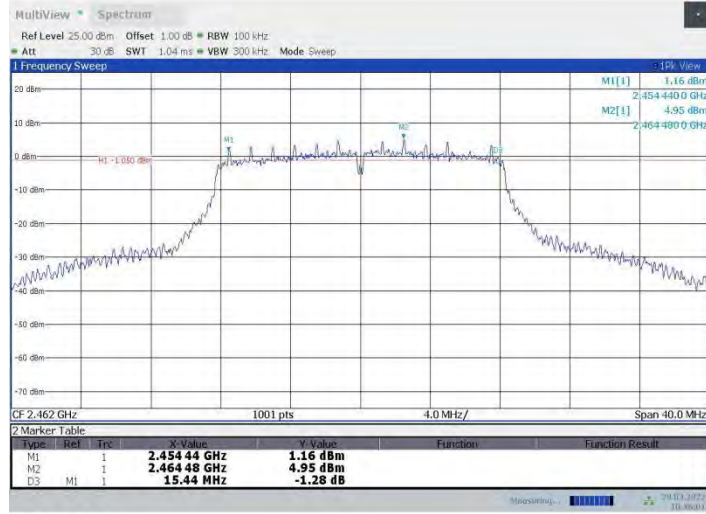
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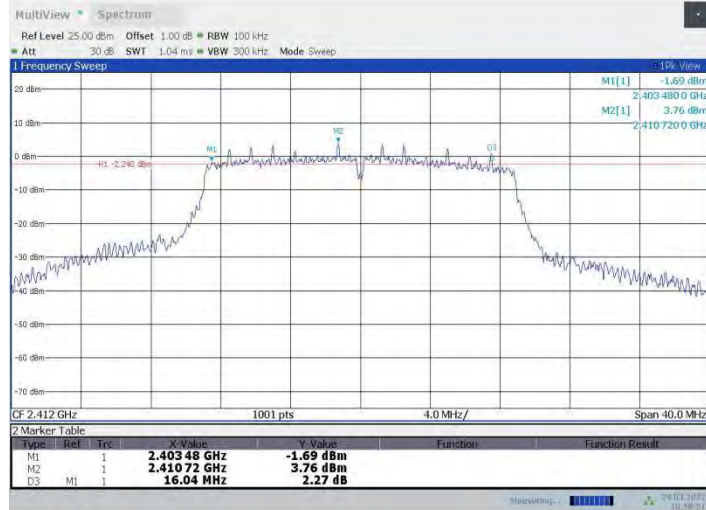
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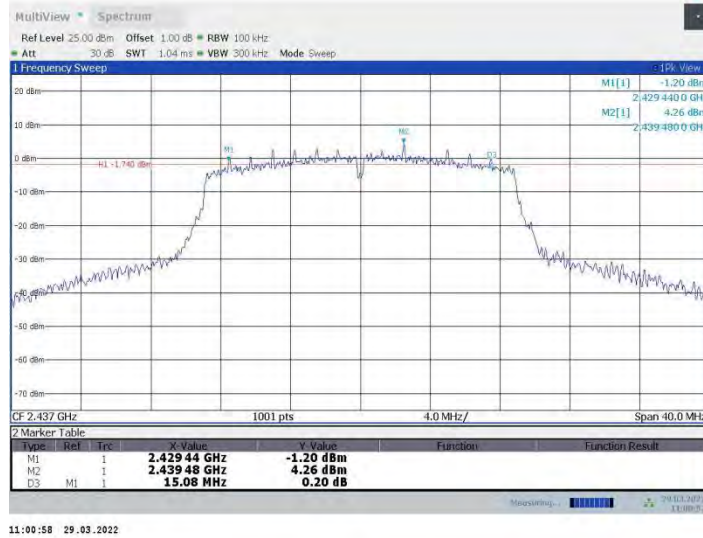


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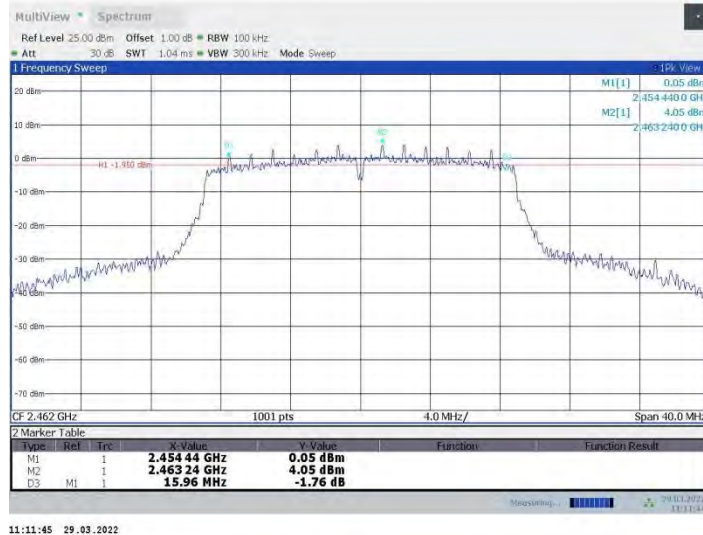
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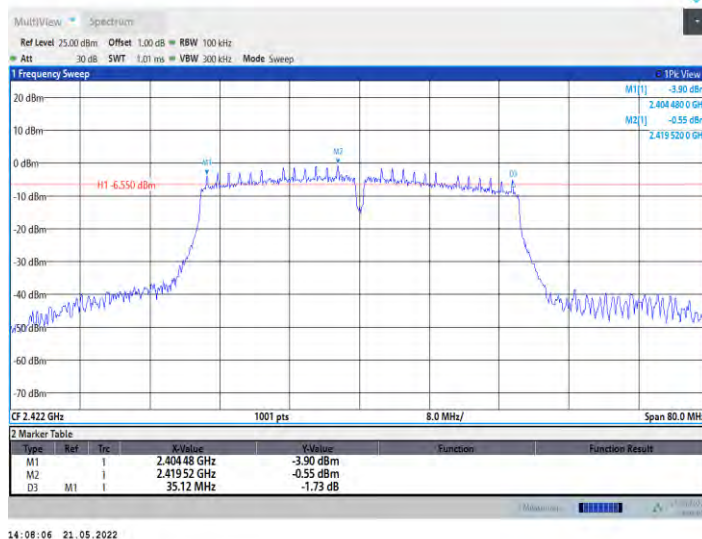
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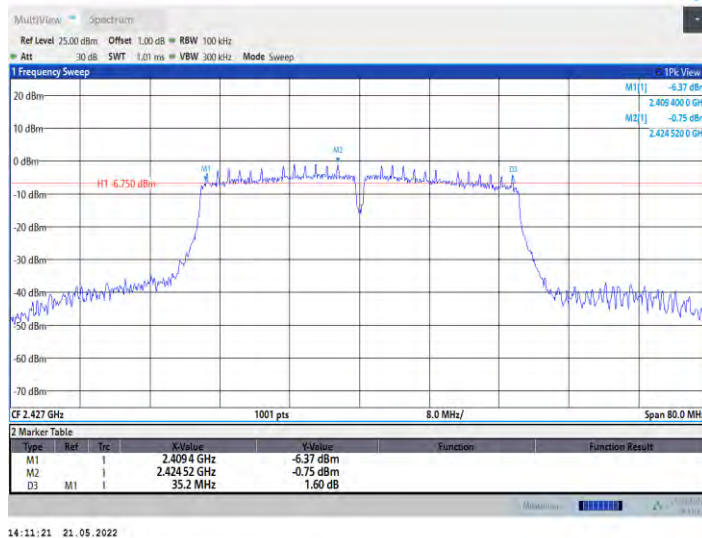
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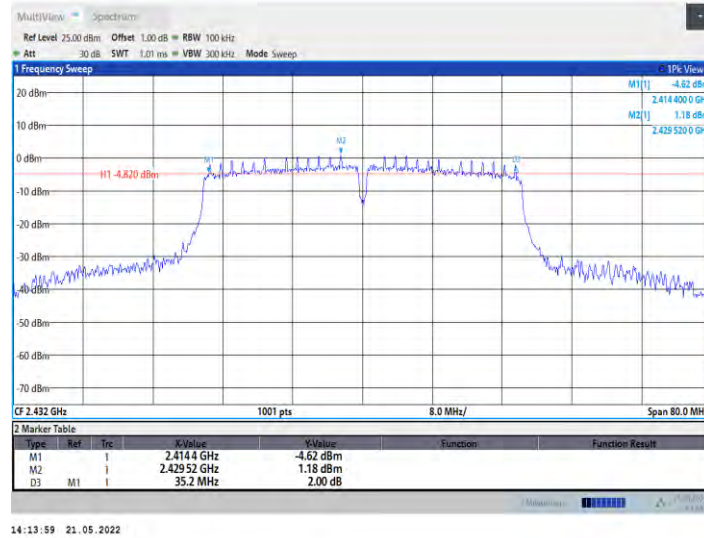


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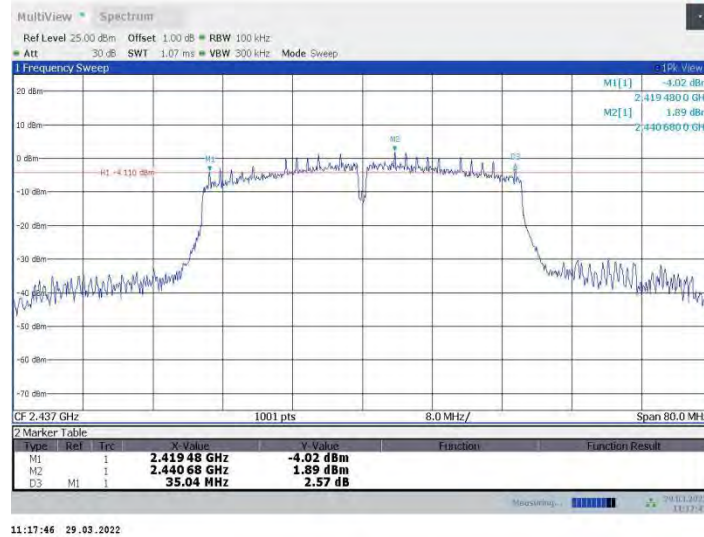
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11N40SISO\_Ant 2\_2437

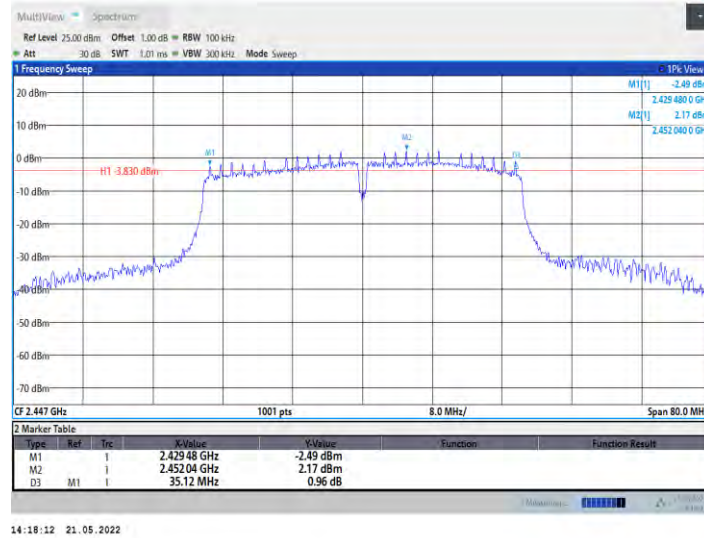


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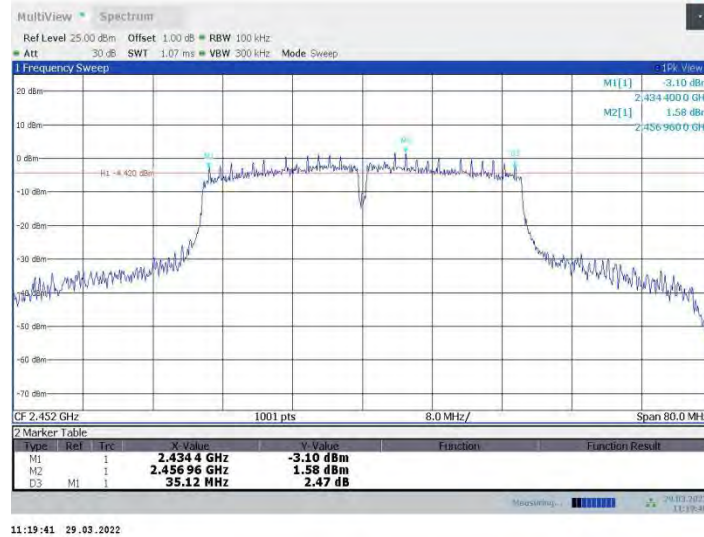
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11N40SISO\_Ant 2\_2452



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## Occupied Channel Bandwidth Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant 2	2412	12.84	2405.509	2418.350	---	---
		2437	12.934	2430.539	2443.473	---	---
		2462	12.741	2455.507	2468.248	---	---
11G	Ant 2	2412	17.513	2403.035	2420.548	---	---
		2417	17.252	2408.218	2425.470	---	---
		2437	17.085	2428.504	2445.589	---	---
		2462	17.289	2453.425	2470.714	---	---
11N20SISO	Ant 2	2412	18.231	2402.729	2420.961	---	---
		2437	17.944	2428.054	2445.998	---	---
		2462	18.132	2453.010	2471.142	---	---
11N40SISO	Ant 2	2422	36.412	2403.652	2440.064	---	---
		2427	36.635	2408.575	2445.210	---	---
		2432	36.768	2413.545	2450.312	---	---
		2437	36.357	2419.018	2455.376	---	---
		2447	36.477	2428.838	2465.315	---	---
		2452	36.744	2433.733	2470.477	---	---



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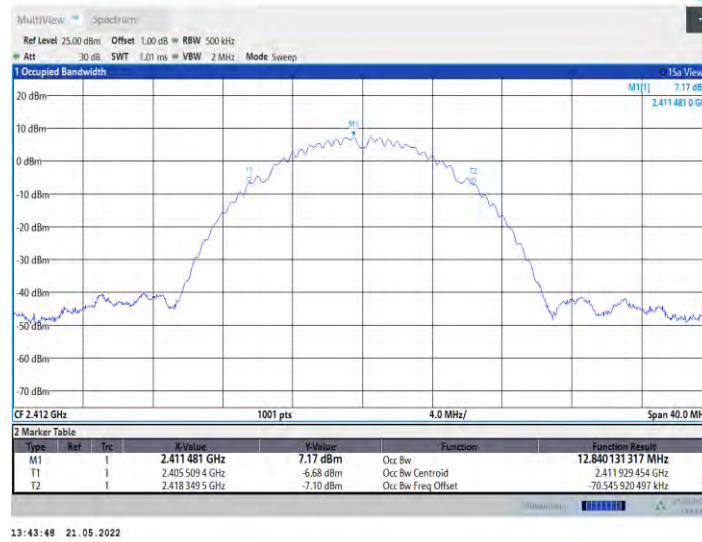
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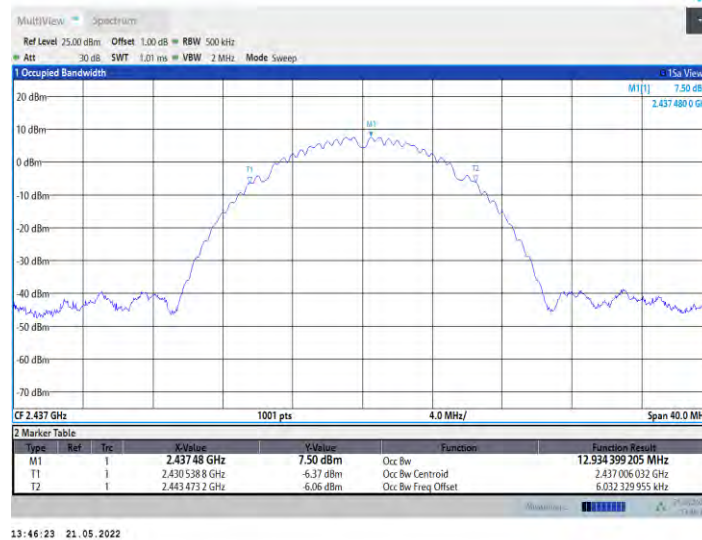


Test Graphs

11B Ant 2 2412



11B Ant 2 2437



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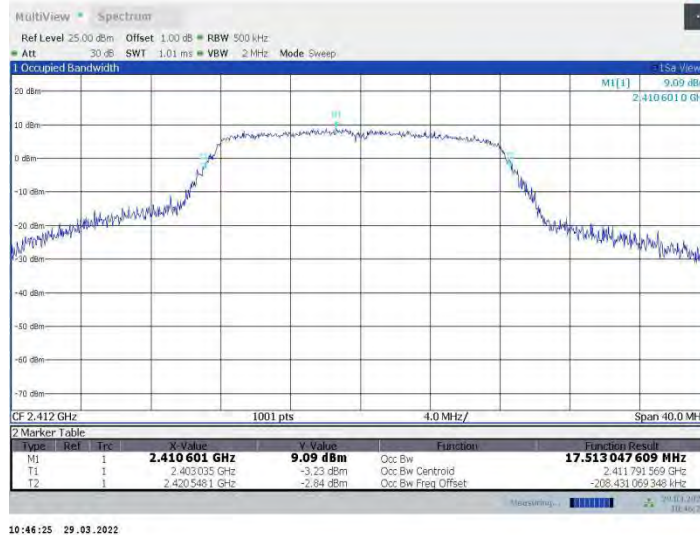
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11B\_Ant 2\_2462



13:49:28 21.05.2022

11G\_Ant 2\_2412



10:46:25 29.03.2022



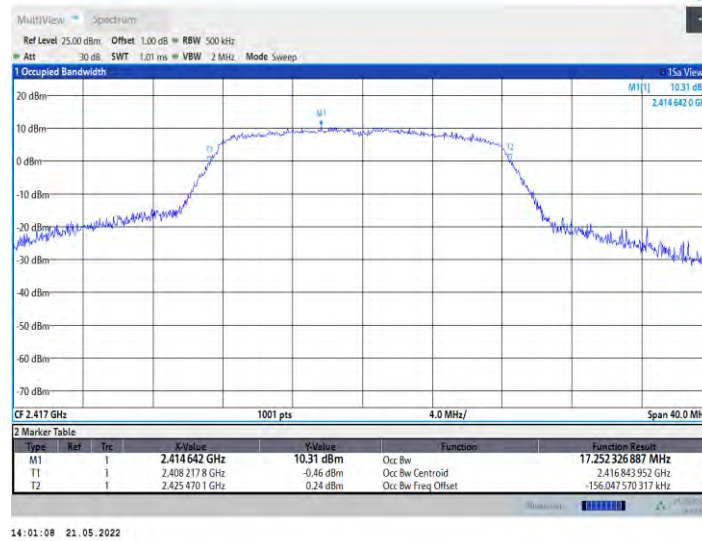
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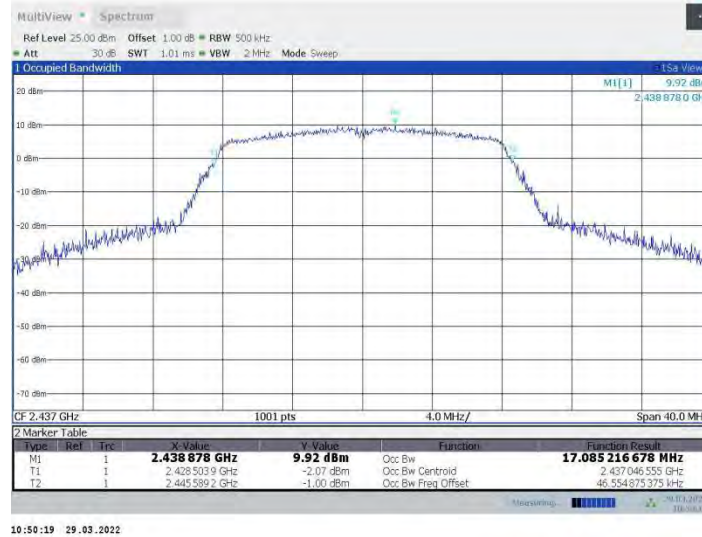
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14:01:08 21.05.2022

11G\_Ant 2\_2437



10:50:19 29.03.2022



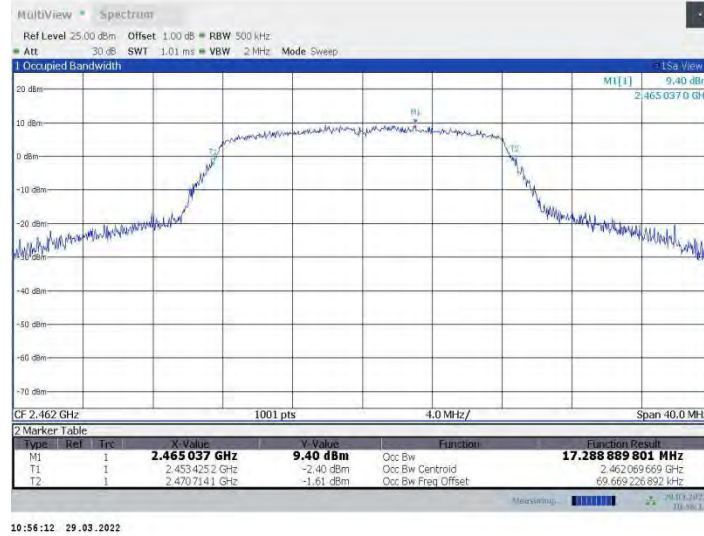
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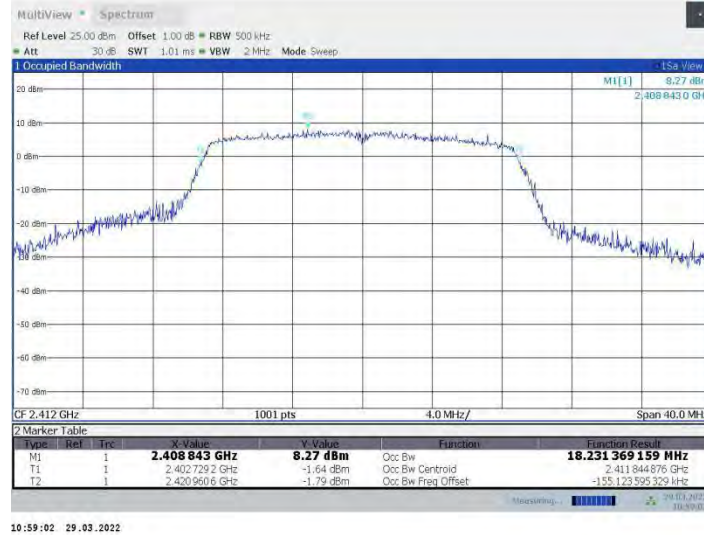
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11N20SISO\_Ant 2\_2412

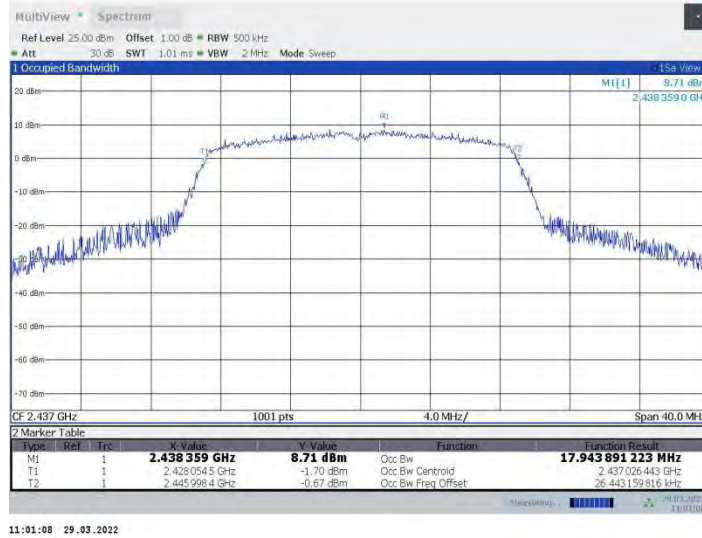


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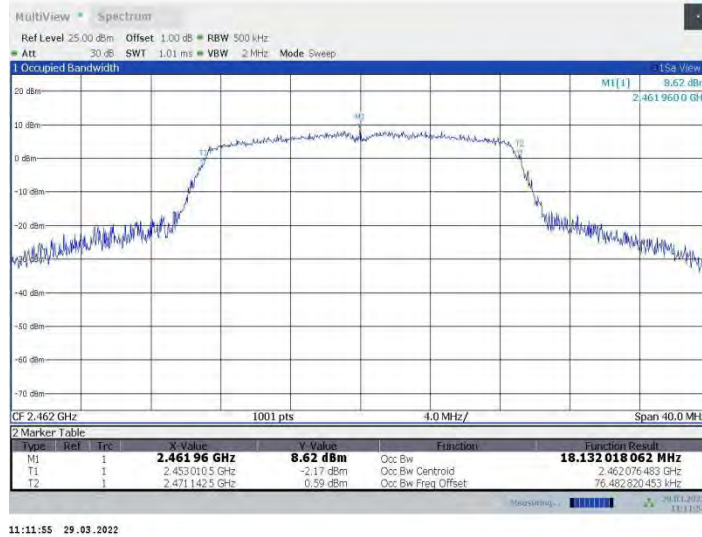
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11:01:08 29.03.2022

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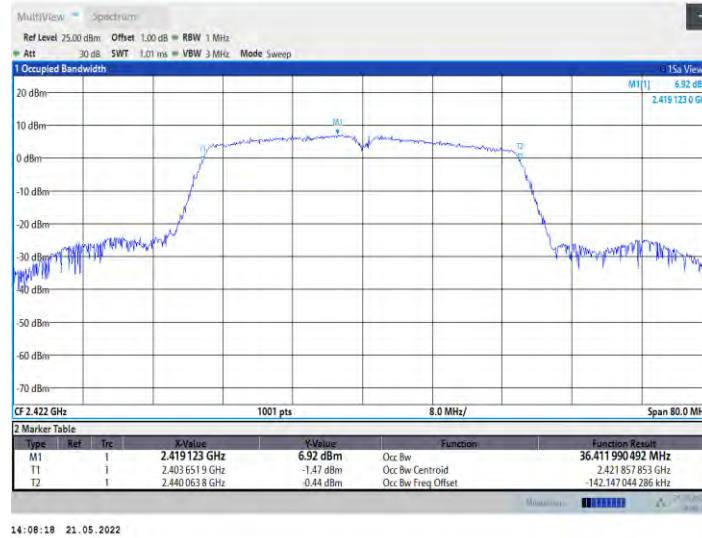


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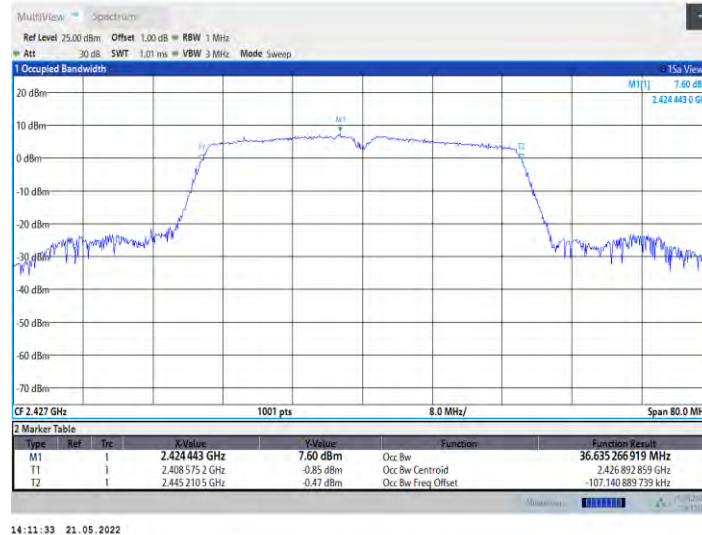
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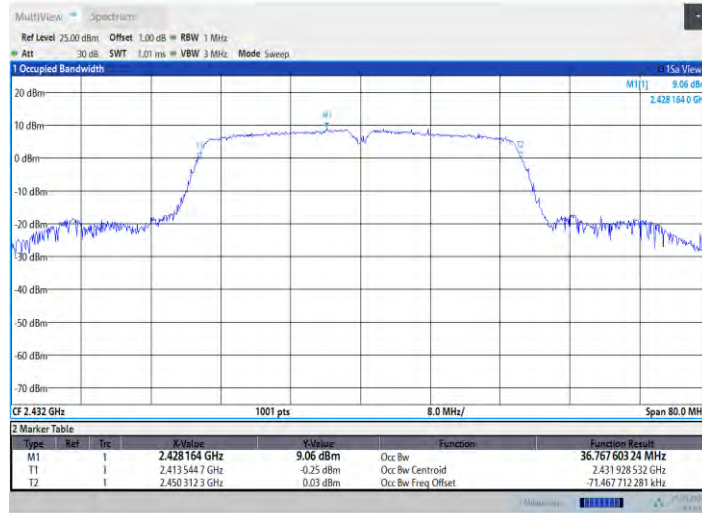


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14:14:11 21.05.2022

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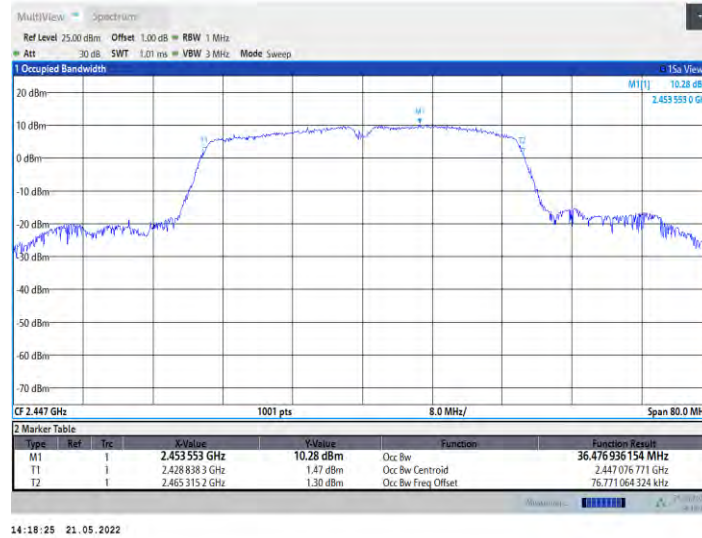
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**Maximum conducted output power  
Test Result Peak**

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant 2	2412	17.32	≤30.00	PASS
		2437	17.72	≤30.00	PASS
		2462	17.53	≤30.00	PASS
11G	Ant 2	2412	23.51	≤30.00	PASS
		2417	24.12	≤30.00	PASS
		2437	24.67	≤30.00	PASS
		2462	23.98	≤30.00	PASS
11N20SISO	Ant 2	2412	23.78	≤30.00	PASS
		2437	24.54	≤30.00	PASS
		2462	24.01	≤30.00	PASS
11N40SISO	Ant 2	2422	24.29	≤30.00	PASS
		2427	22.92	≤30.00	PASS
		2432	24.05	≤30.00	PASS
		2437	24.11	≤30.00	PASS
		2447	24.32	≤30.00	PASS
		2452	24.06	≤30.00	PASS



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**Maximum power spectral density**  
**Test Result**

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant 2	2412	-6.86	≤8.00	PASS
		2437	-7.26	≤8.00	PASS
		2462	-7.21	≤8.00	PASS
11G	Ant 2	2412	-10.13	≤8.00	PASS
		2417	-8.29	≤8.00	PASS
		2437	-8.87	≤8.00	PASS
		2462	-8.21	≤8.00	PASS
11N20SISO	Ant 2	2412	-10.45	≤8.00	PASS
		2437	-10.16	≤8.00	PASS
		2462	-10.45	≤8.00	PASS
11N40SISO	Ant 2	2422	-15.61	≤8.00	PASS
		2427	-15.92	≤8.00	PASS
		2432	-13.45	≤8.00	PASS
		2437	-13.43	≤8.00	PASS
		2447	-13.03	≤8.00	PASS
		2452	-12.97	≤8.00	PASS



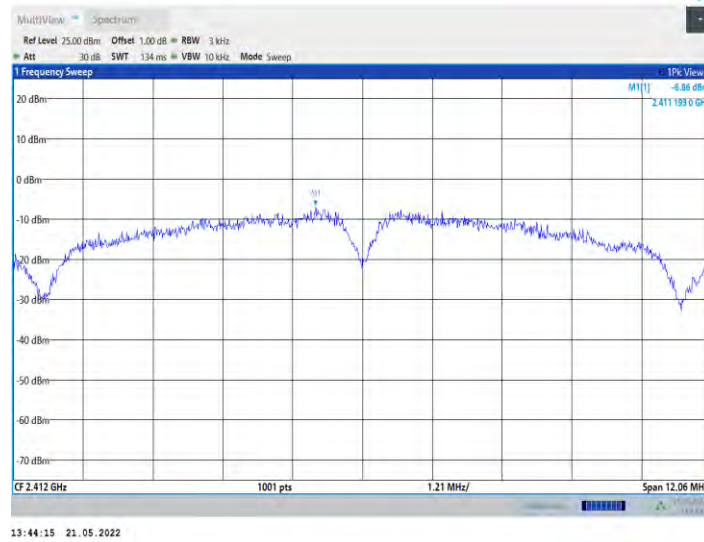
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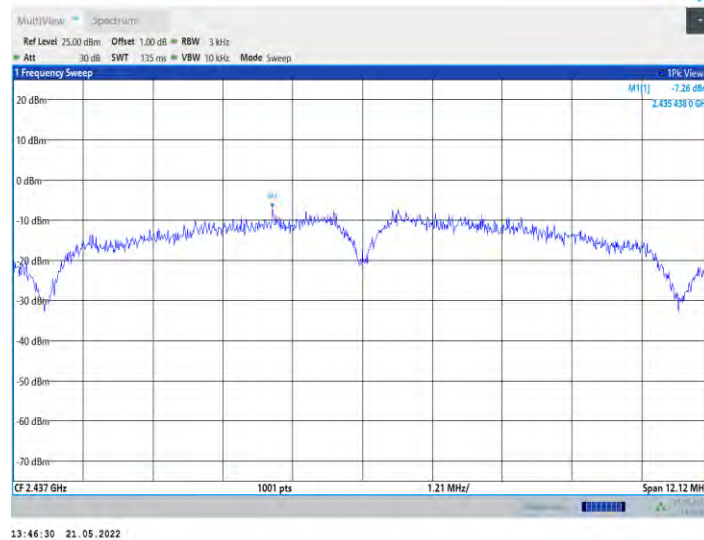
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Test Graphs

11B Ant 2 2412



11B Ant 2 2437

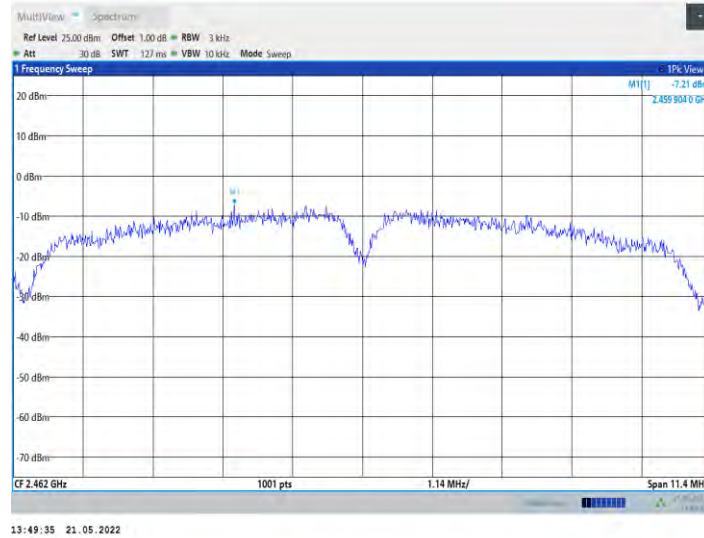


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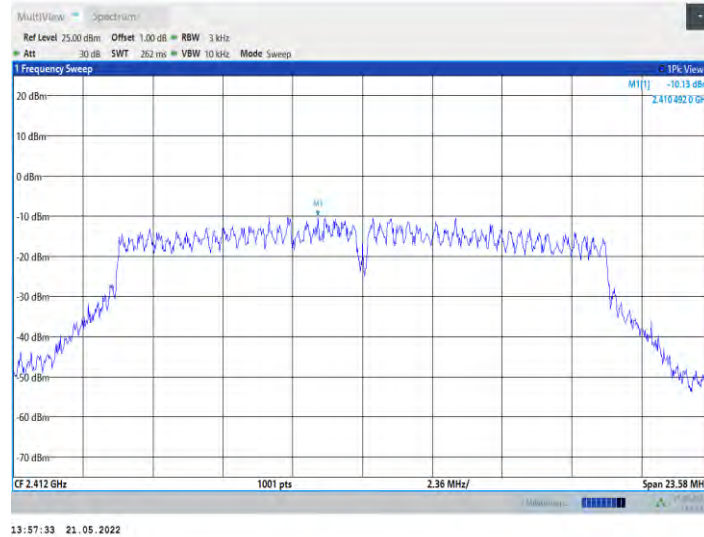
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11B\_Ant 2\_2462



11G\_Ant 2\_2412

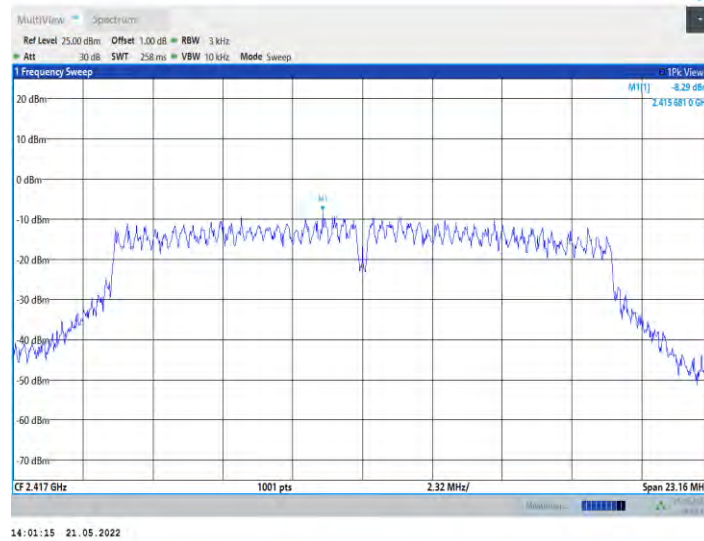


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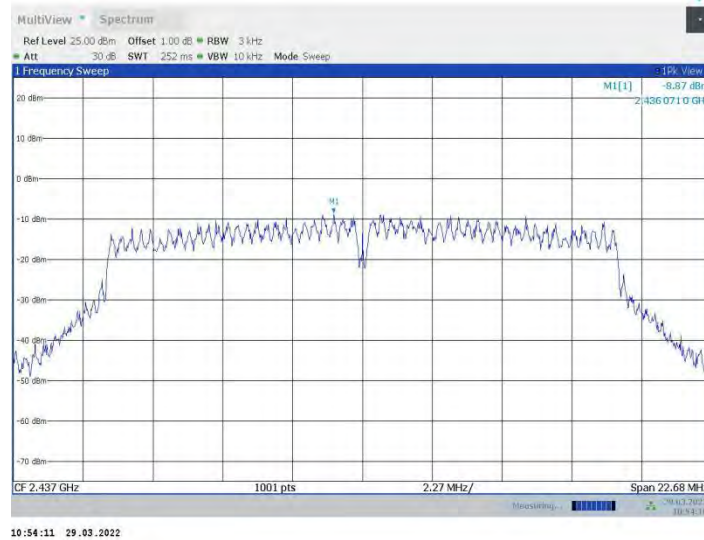
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11G\_Ant 2\_2417

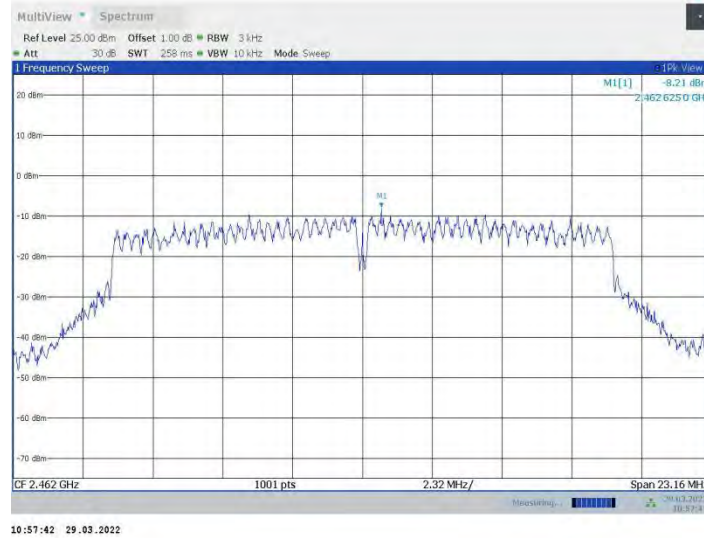


11G\_Ant 2\_2437

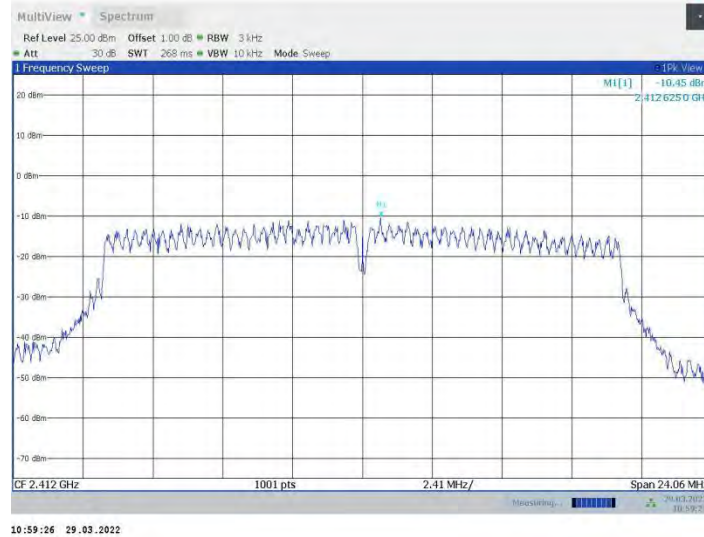


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11G\_Ant 2\_2462



11N20SISO\_Ant 2\_2412



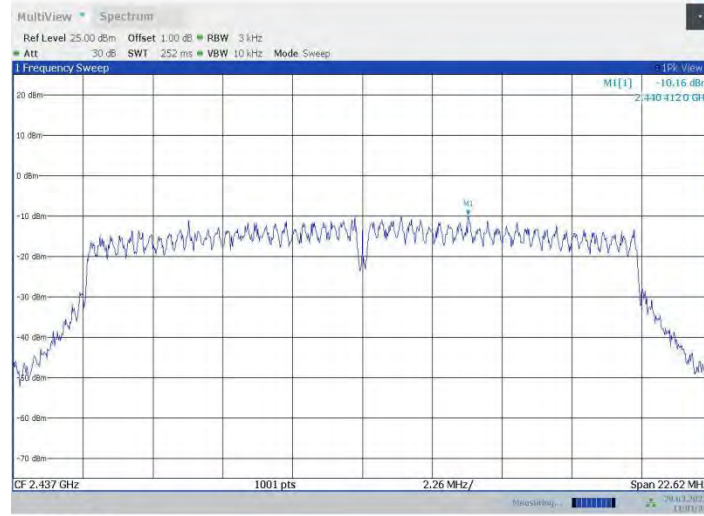
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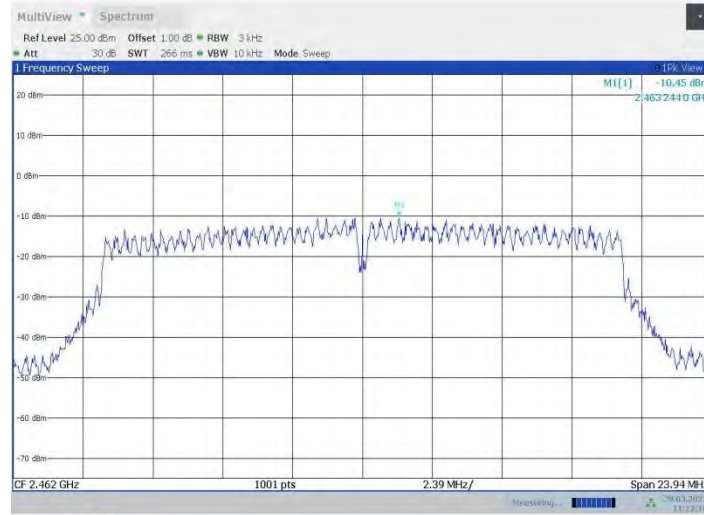
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11N20SISO\_Ant 2\_2437



11:01:32 29.03.2022

11N20SISO\_Ant 2\_2462

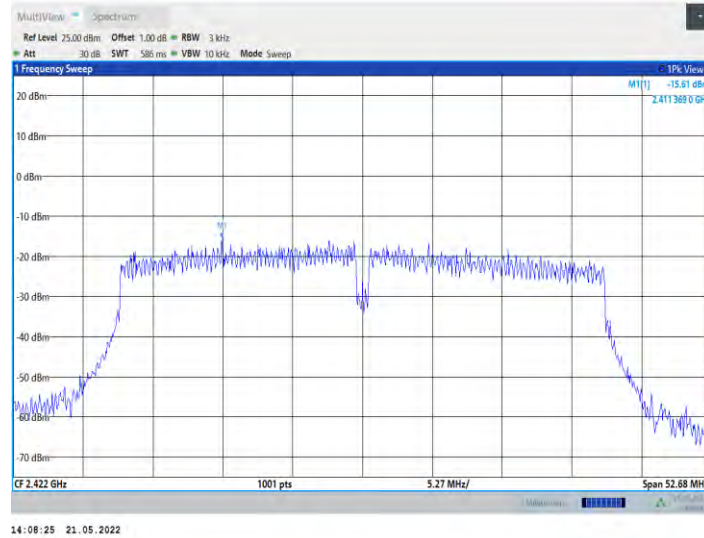


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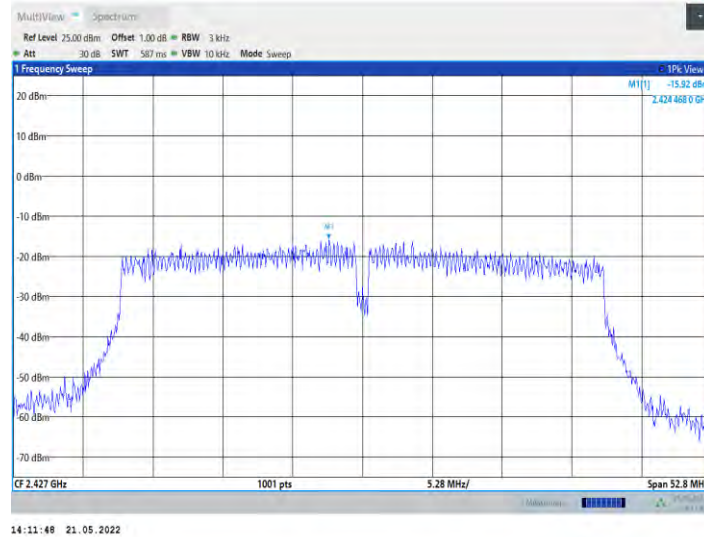


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11N40SISO\_Ant 2\_2422



11N40SISO\_Ant 2\_2427



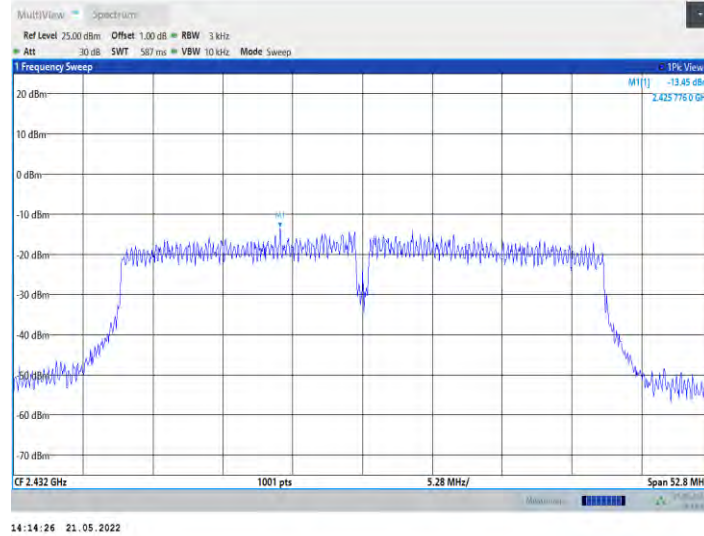
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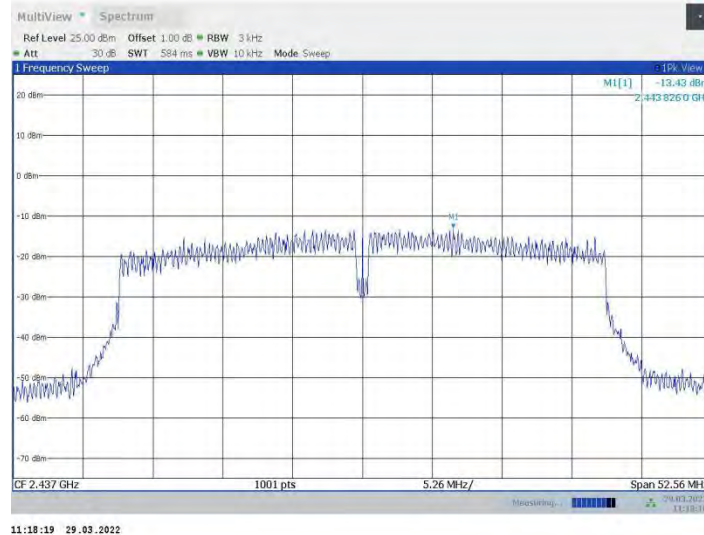
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11N40SISO\_Ant 2\_2432



11N40SISO\_Ant 2\_2437

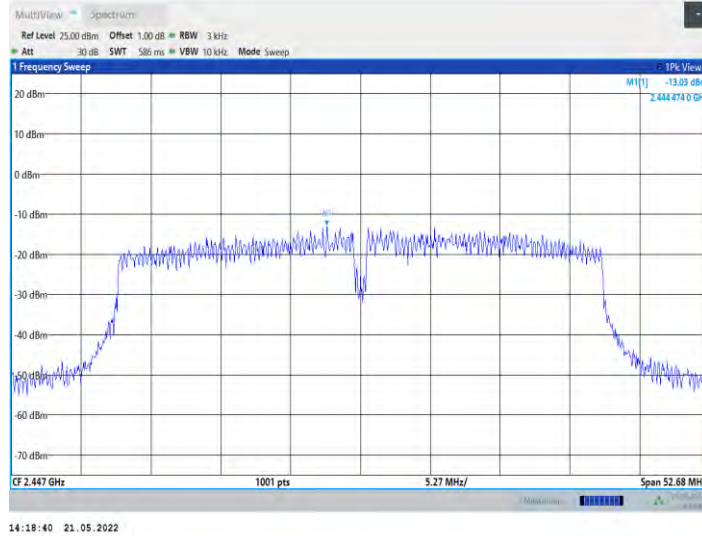


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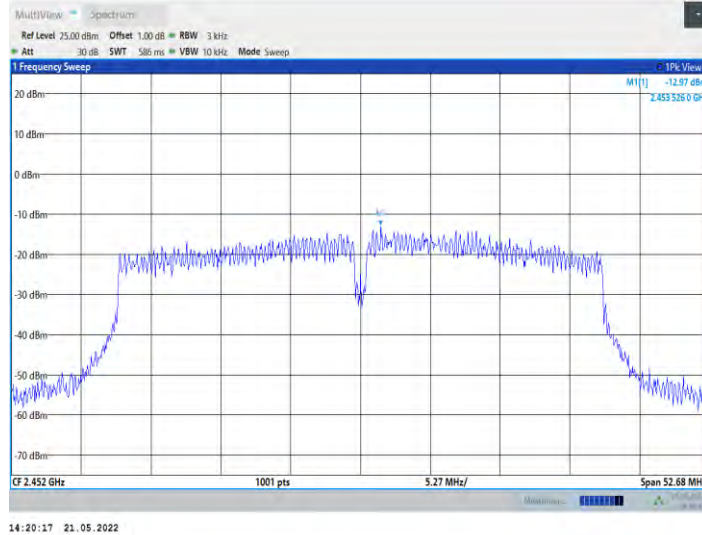
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11N40SISO\_Ant 2\_2447



11N40SISO\_Ant 2\_2452



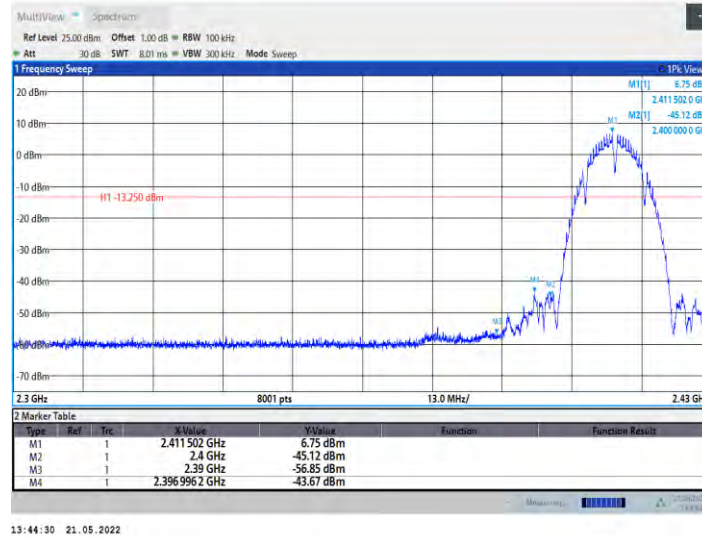
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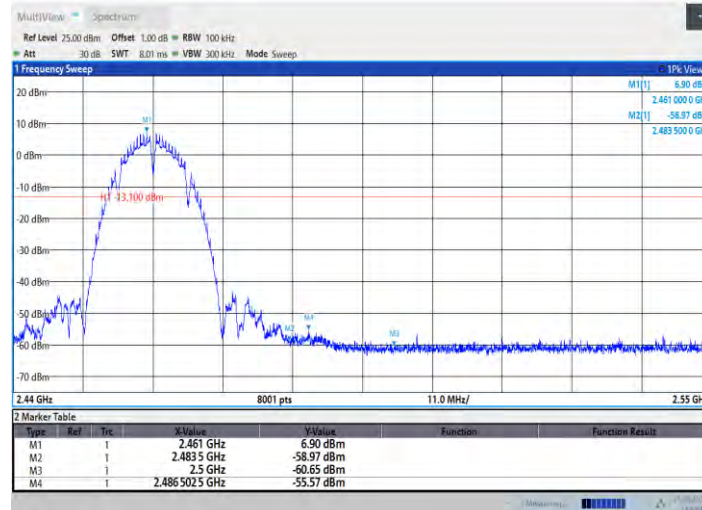
## Band edge measurements Test Graphs

11B Ant 2 Low 2412



13:44:30 21.05.2022

11B Ant 2 High 2462



13:49:43 21.05.2022



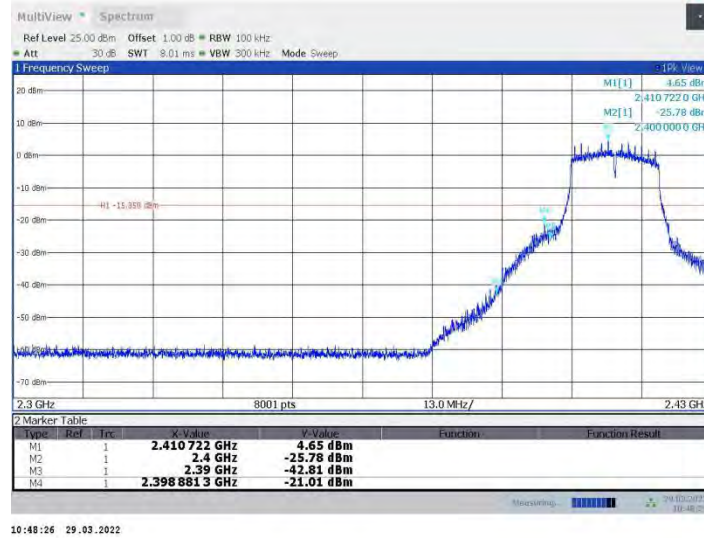
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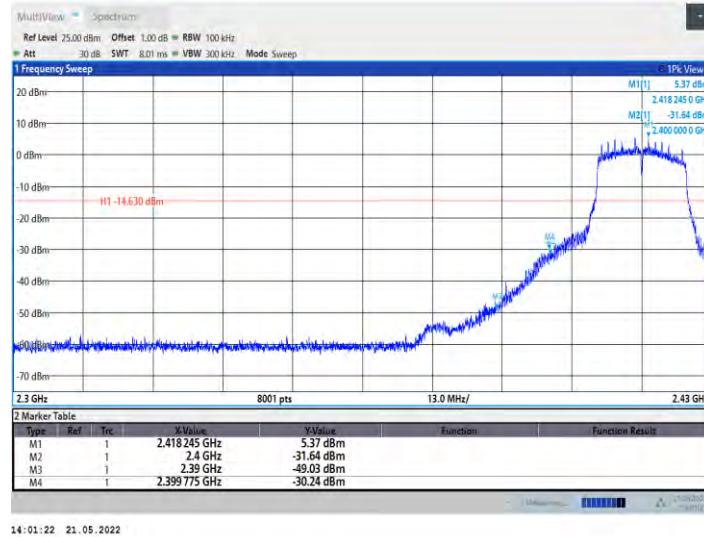
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11G\_Ant 2\_Low\_2412



11G\_Ant 2\_Low\_2417

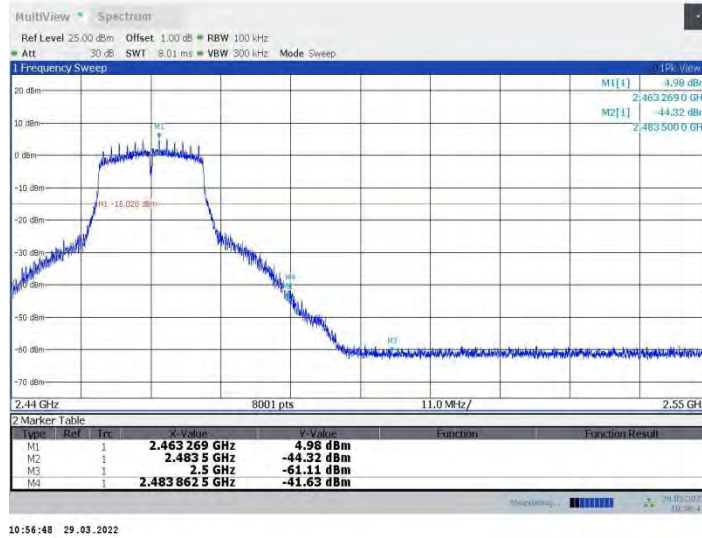


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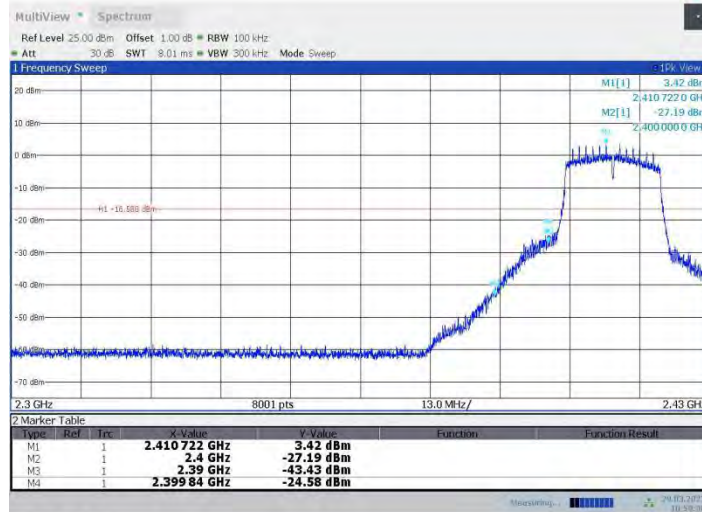
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### 11G\_Ant 2\_High\_2462



10:56:48 29.03.2022

### 11N20SISO\_Ant 2\_Low\_2412



10:59:39 29.03.2022

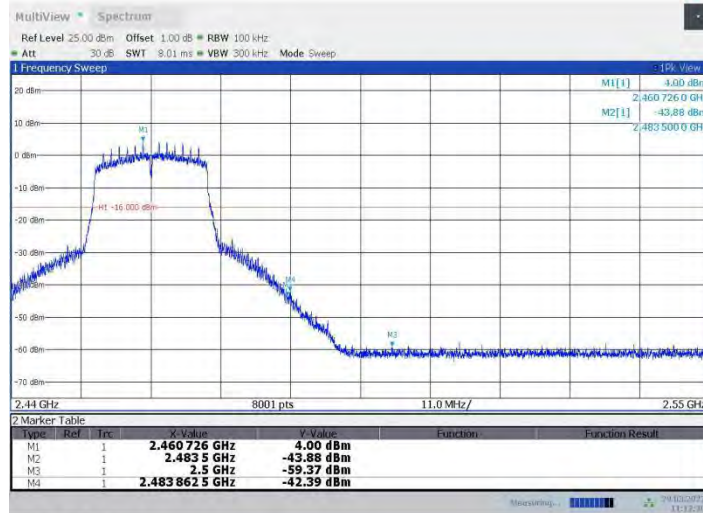


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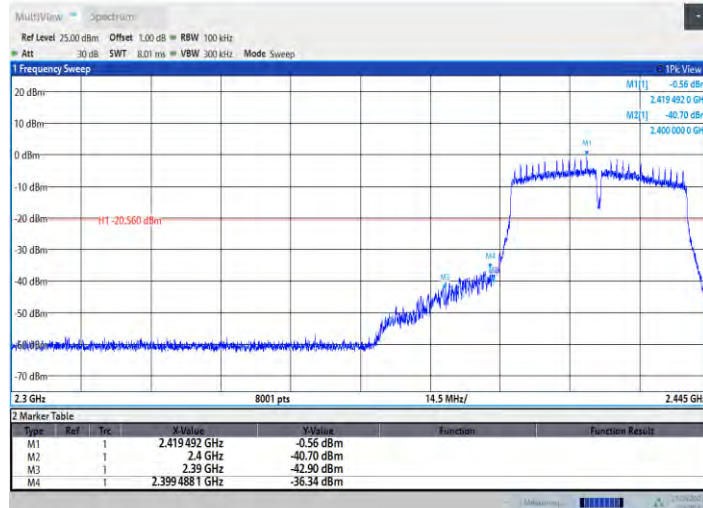
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11N20SISO\_Ant 2\_High\_2462



11:12:31 29.03.2022

11N40SISO\_Ant 2\_Low\_2422



14:08:51 21.05.2022

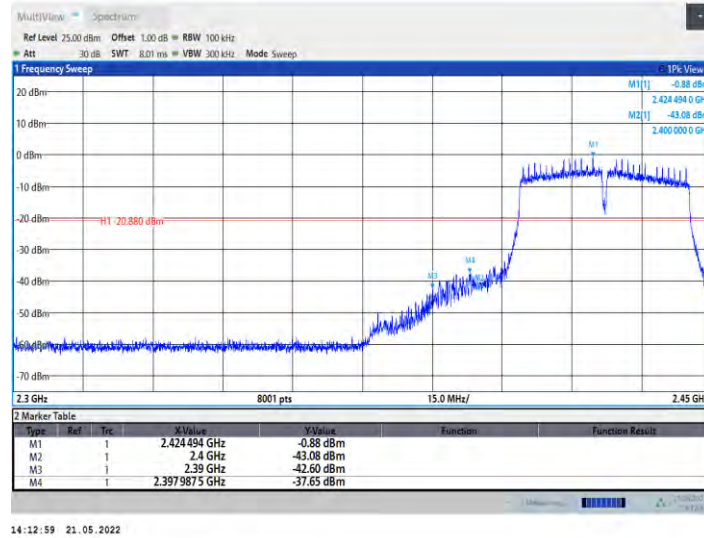


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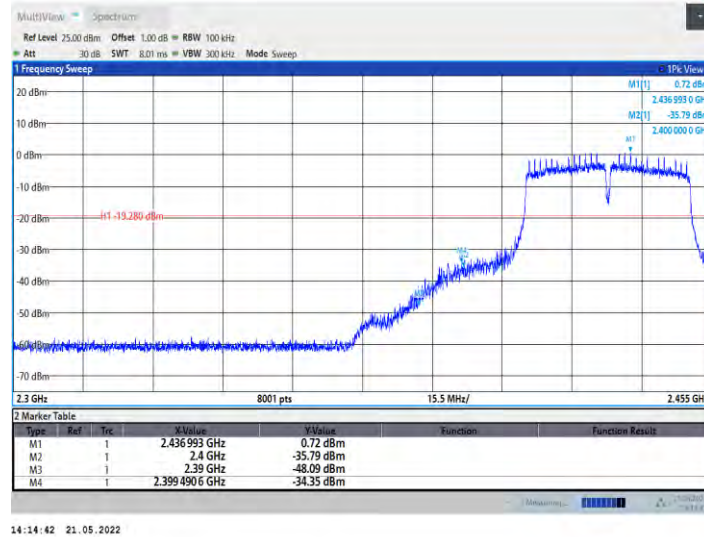
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11N40SISO\_Ant 2\_Low\_2427



14:12:59 21. 05. 2022

11N40SISO\_Ant 2\_Low\_2432



14:14:42 21. 05. 2022

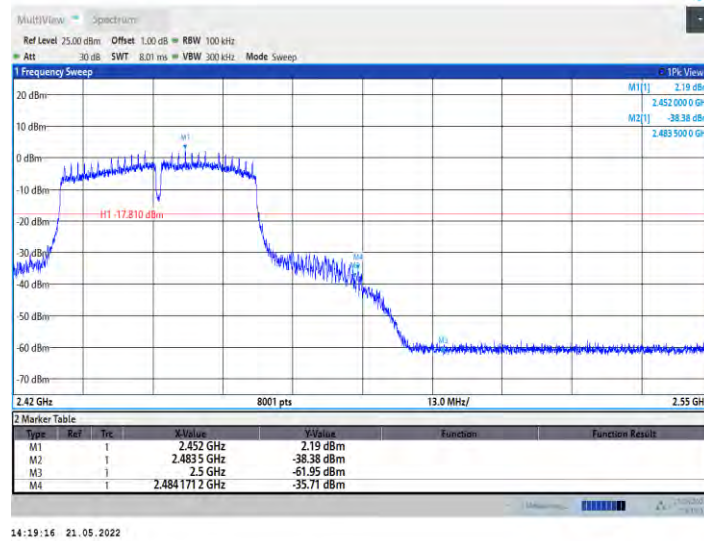


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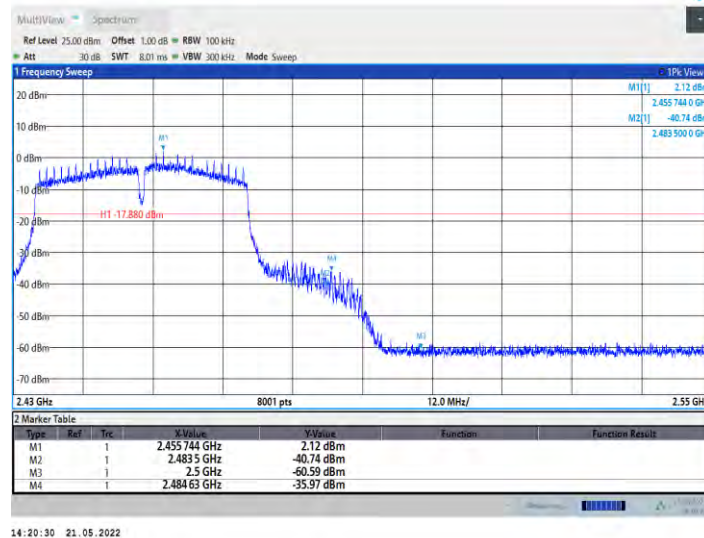
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11N40SISO\_Ant 2\_High\_2447



14:19:16 21.05.2022

11N40SISO\_Ant 2\_High\_2452



14:20:30 21.05.2022



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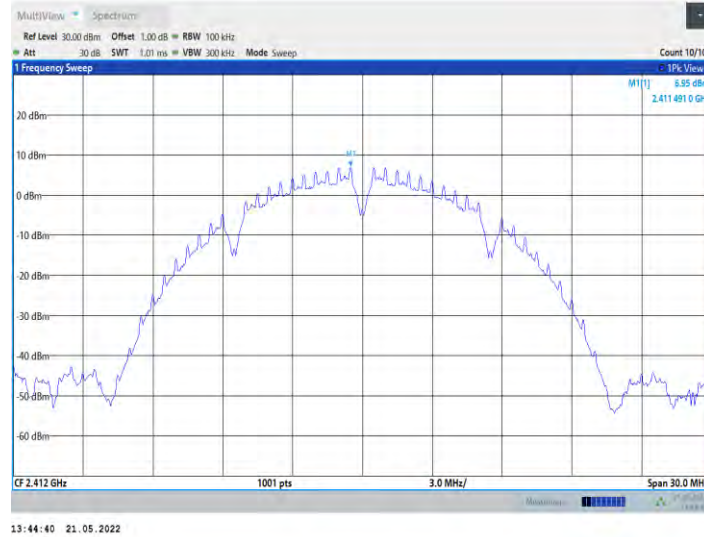
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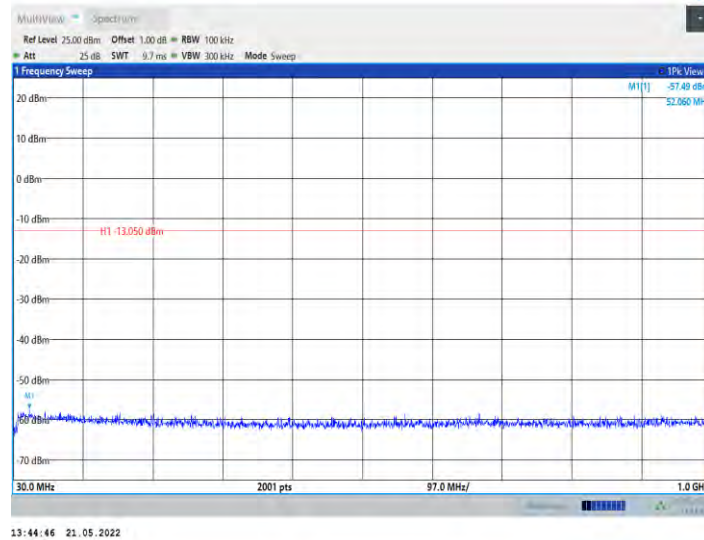


## Conducted Spurious Emission Test Graphs

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11B\_Ant 2\_2412\_30~1000



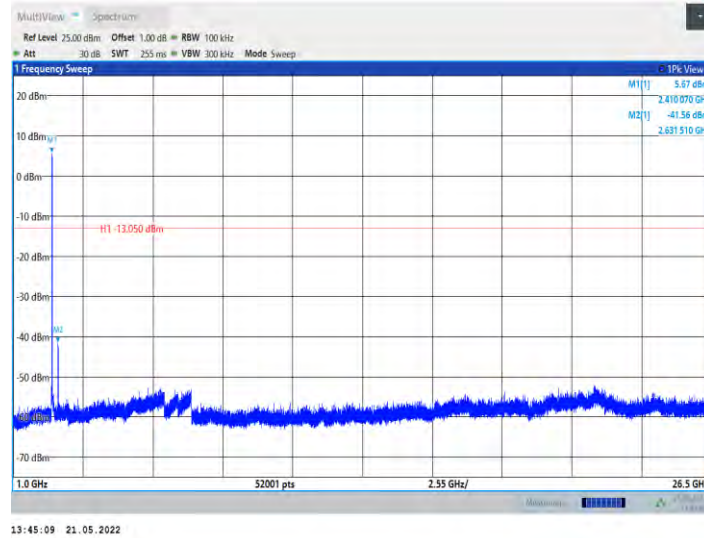
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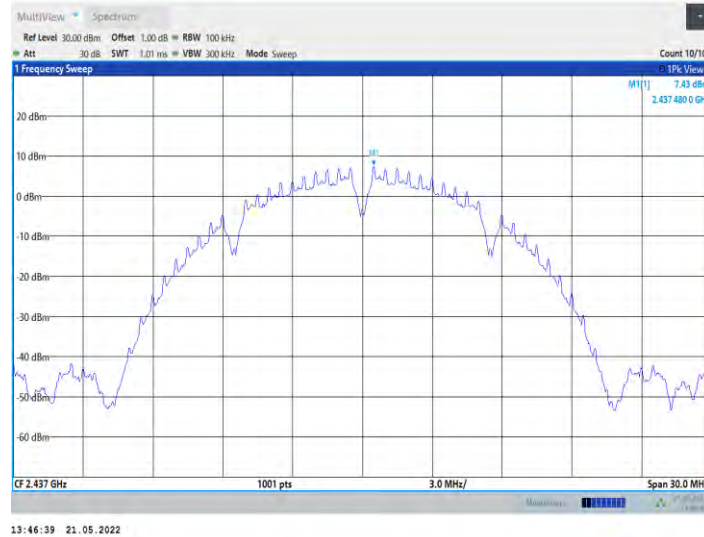
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11B\_Ant 2\_2412\_1000~26500



11B\_Ant 2\_2437\_0~Reference

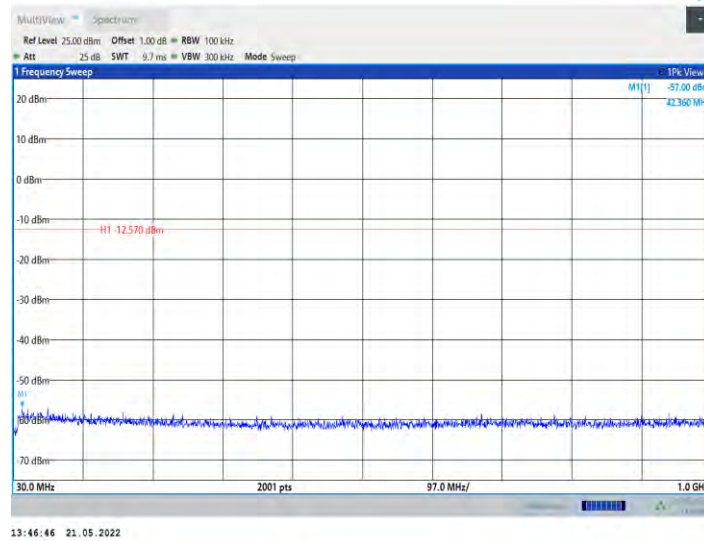


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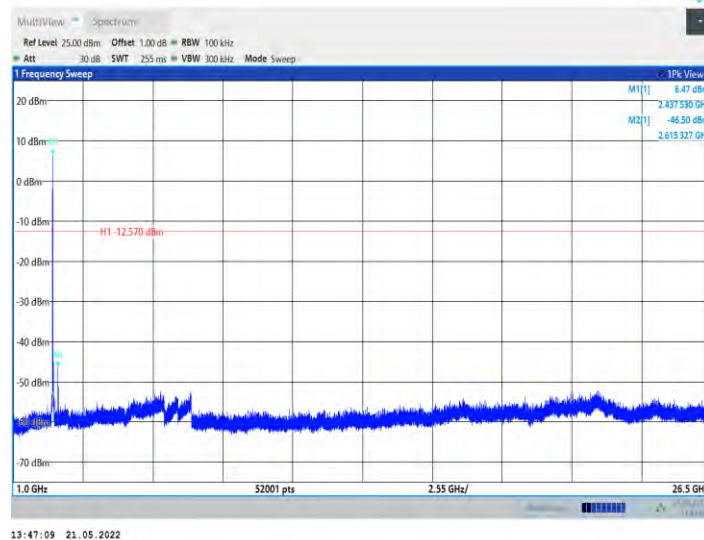
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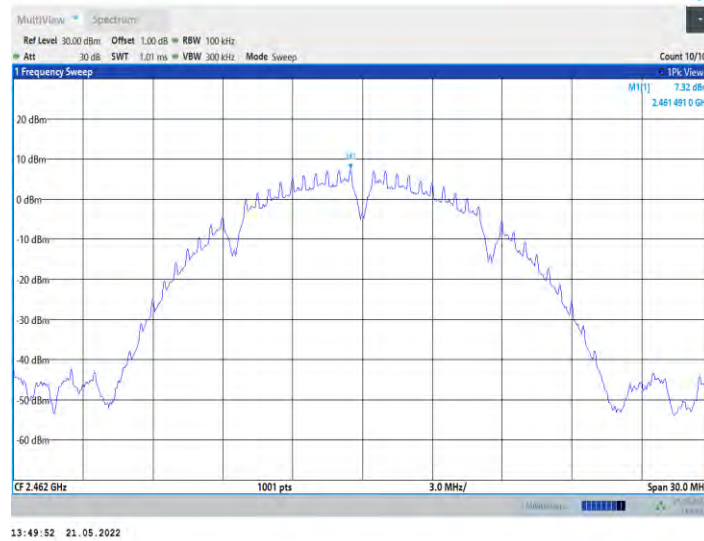


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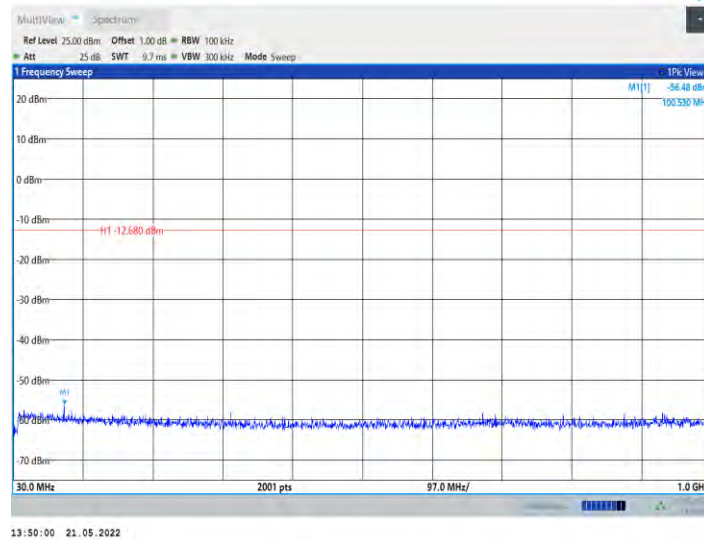
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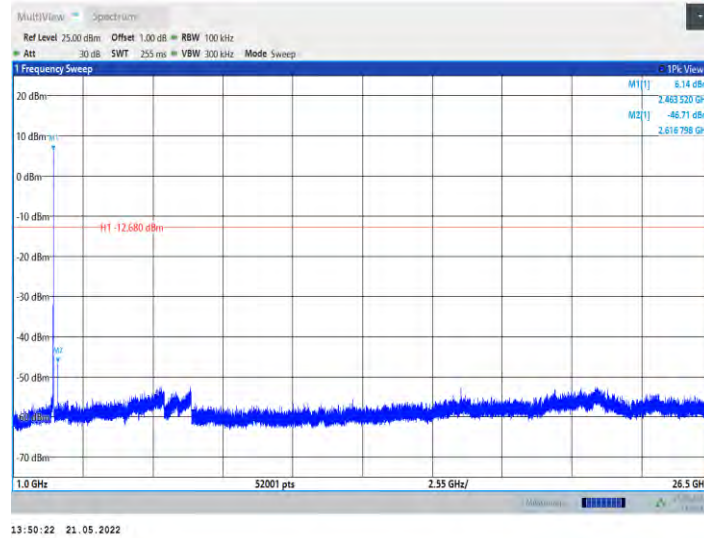


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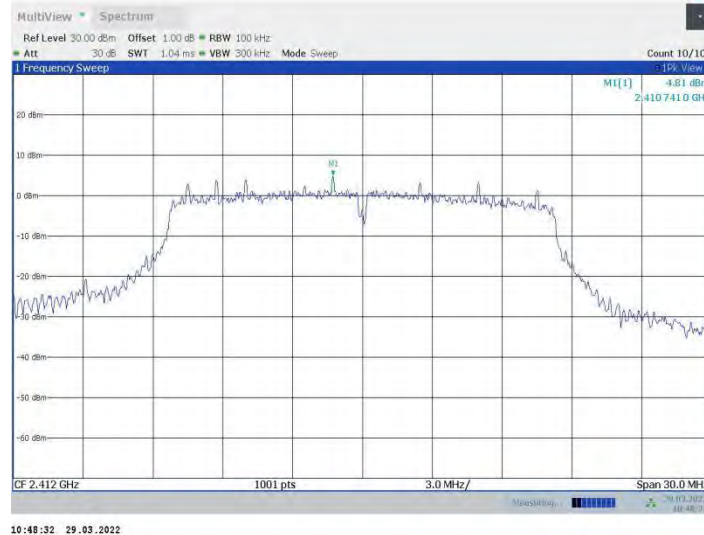
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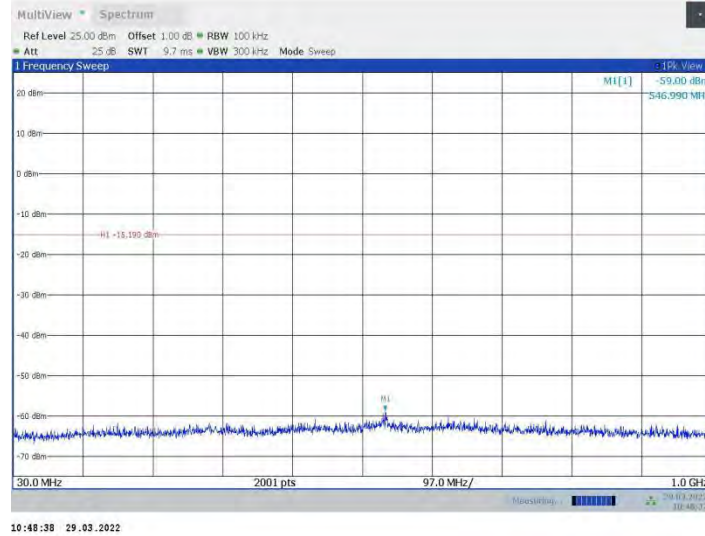


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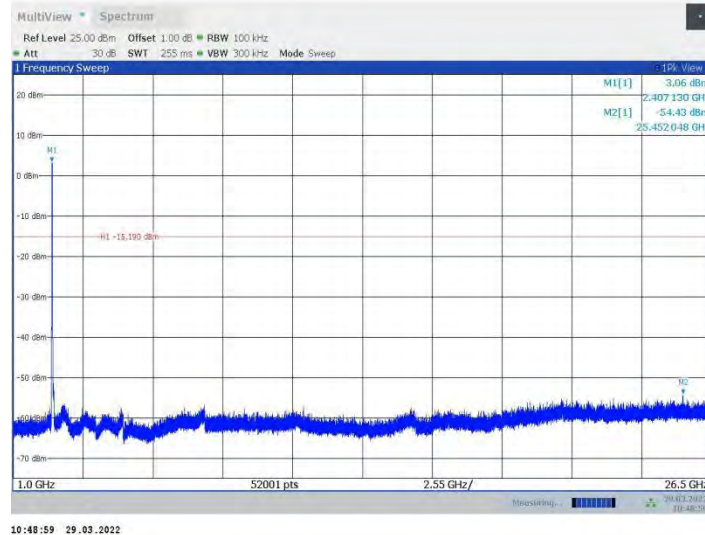
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10:48:38 29.03.2022

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10:48:59 29.03.2022



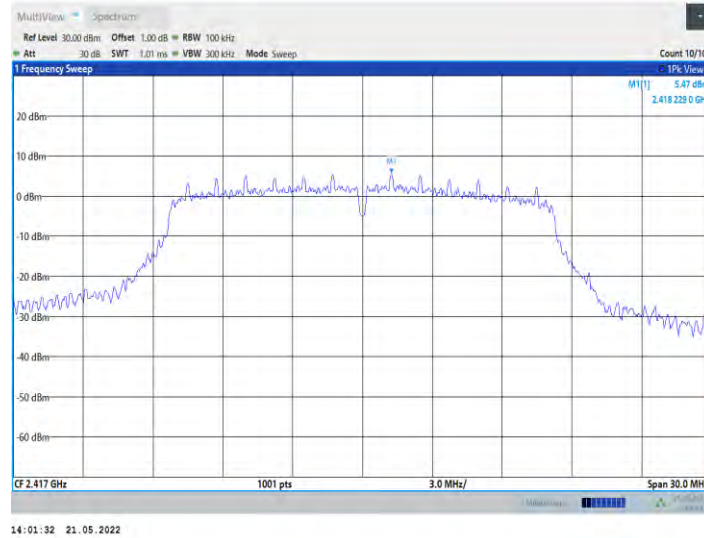
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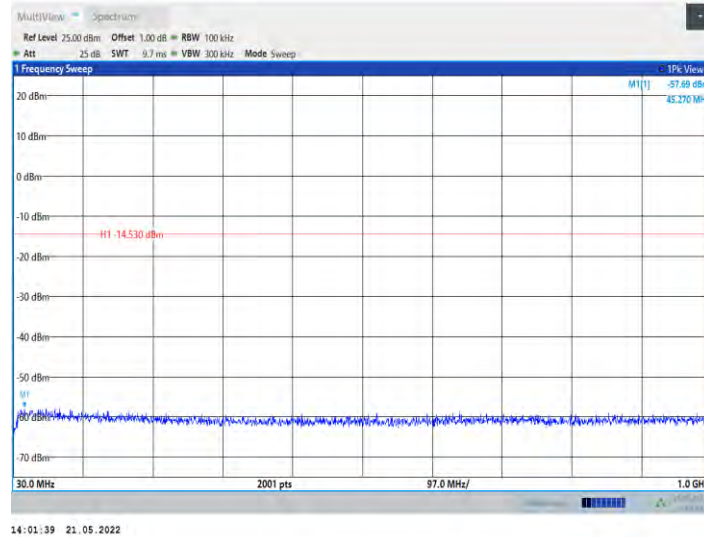
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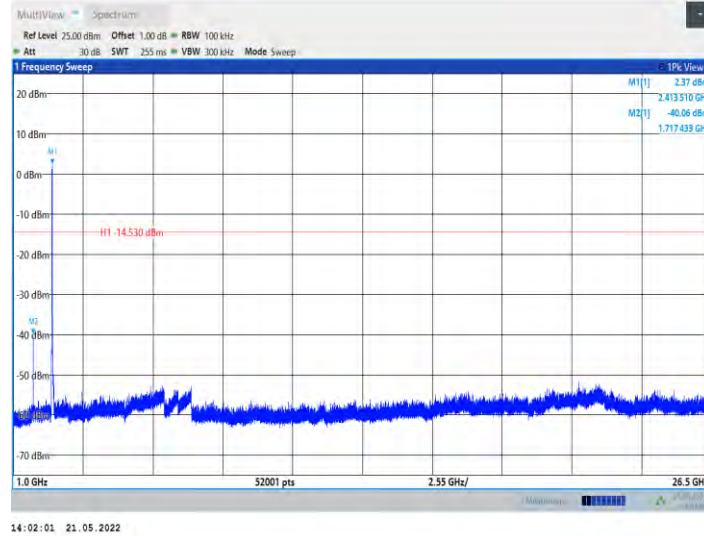


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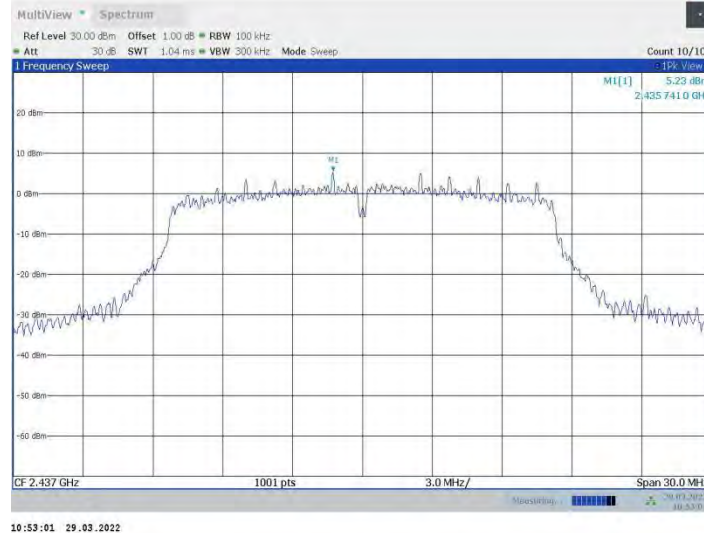
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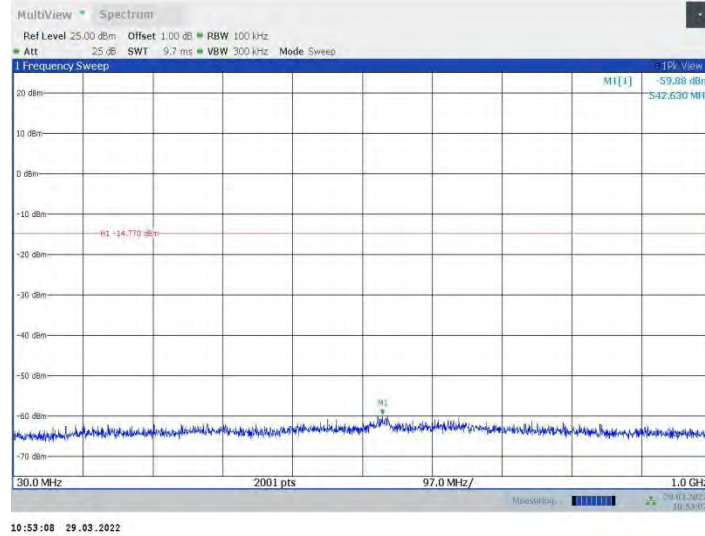
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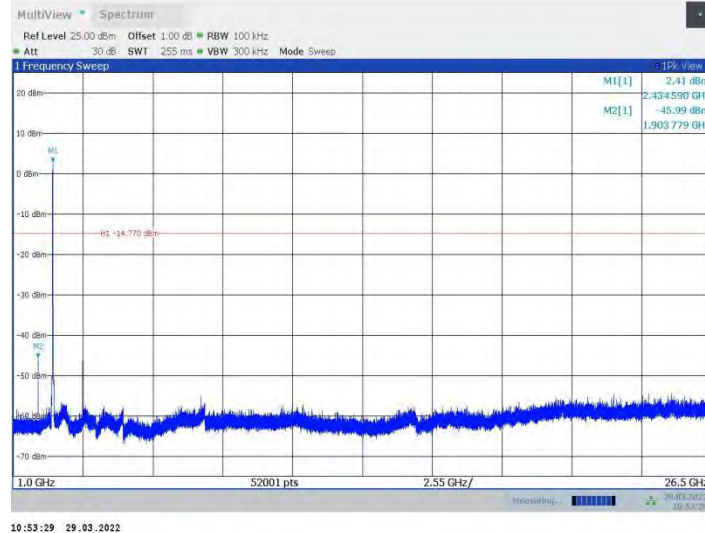


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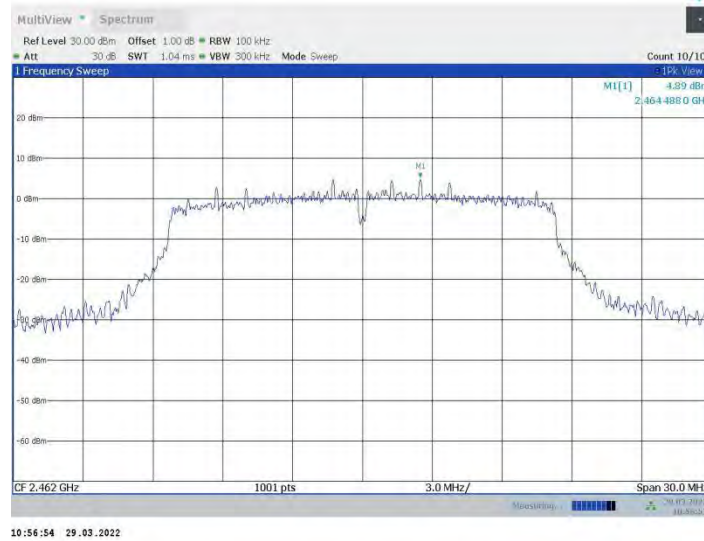


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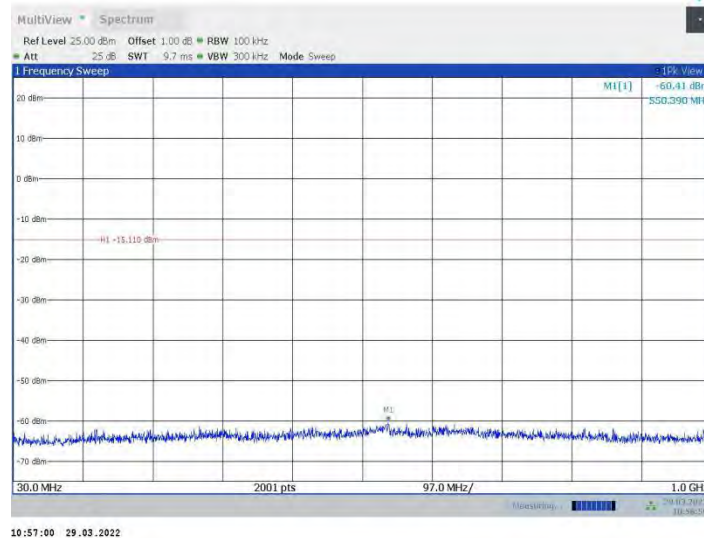
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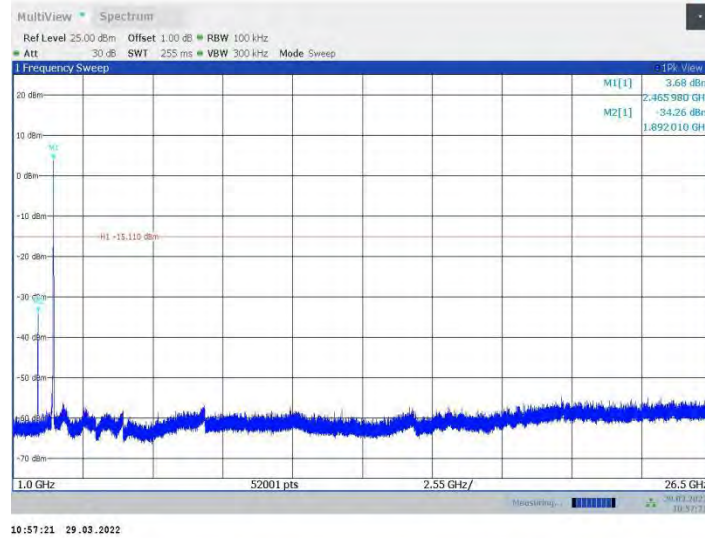


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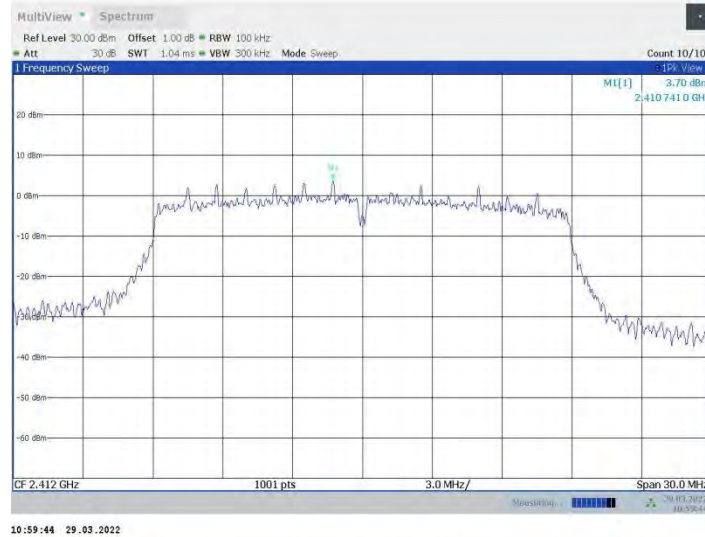
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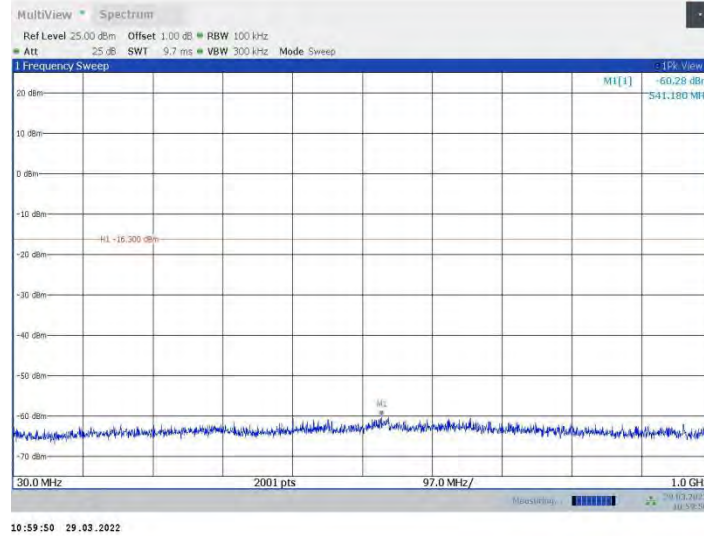


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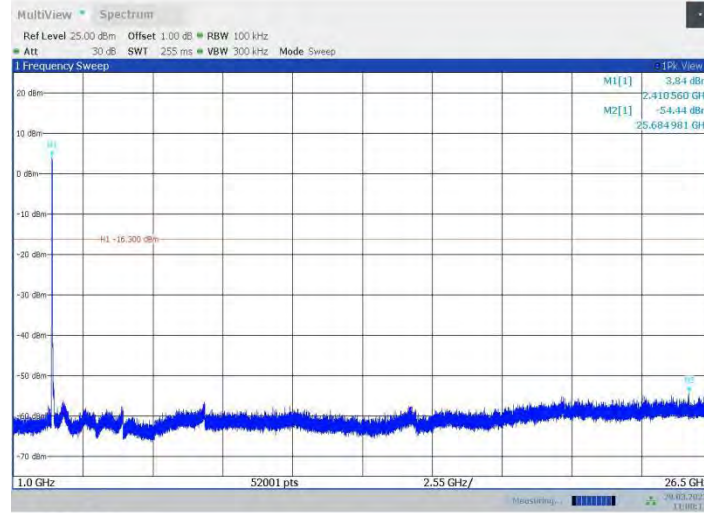
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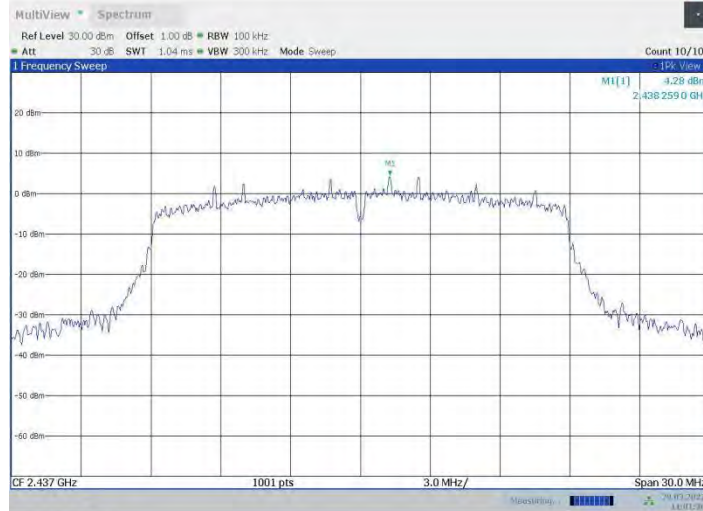


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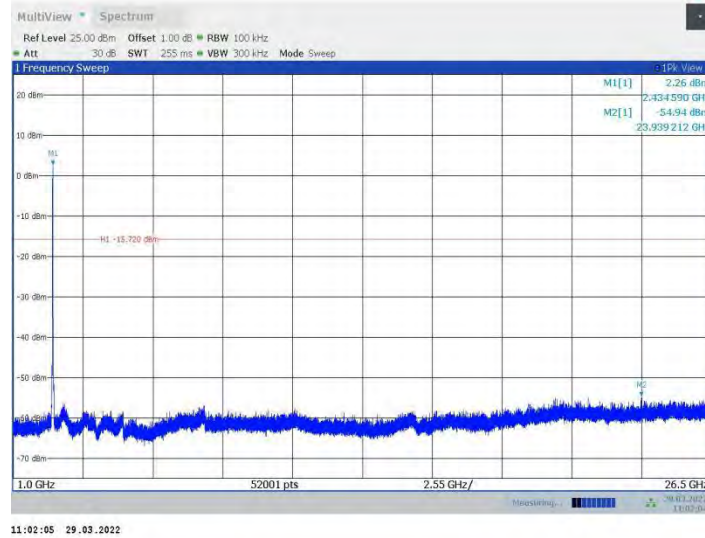


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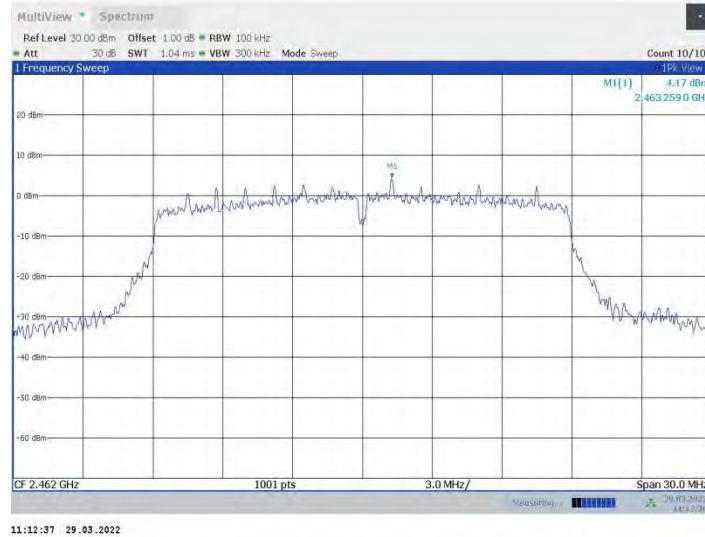
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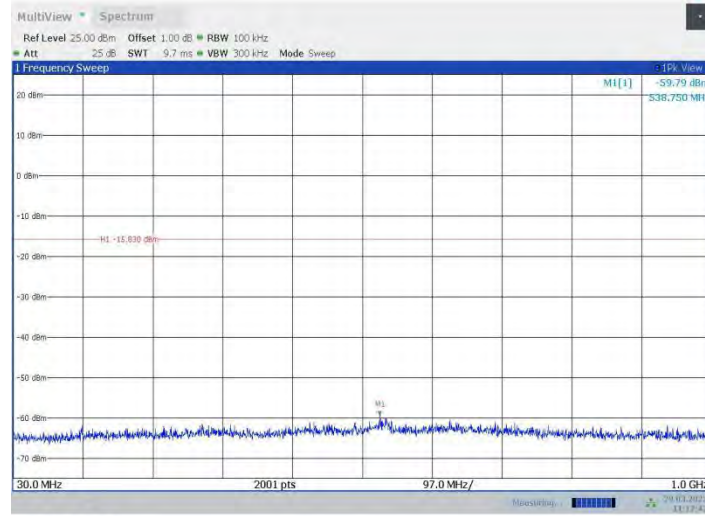


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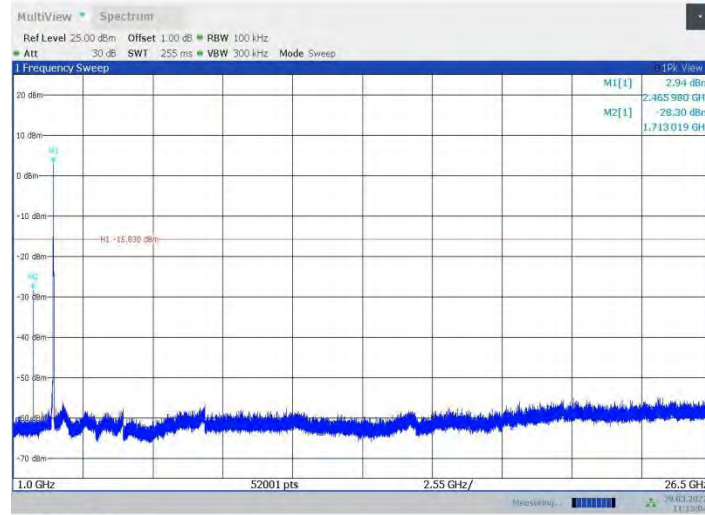
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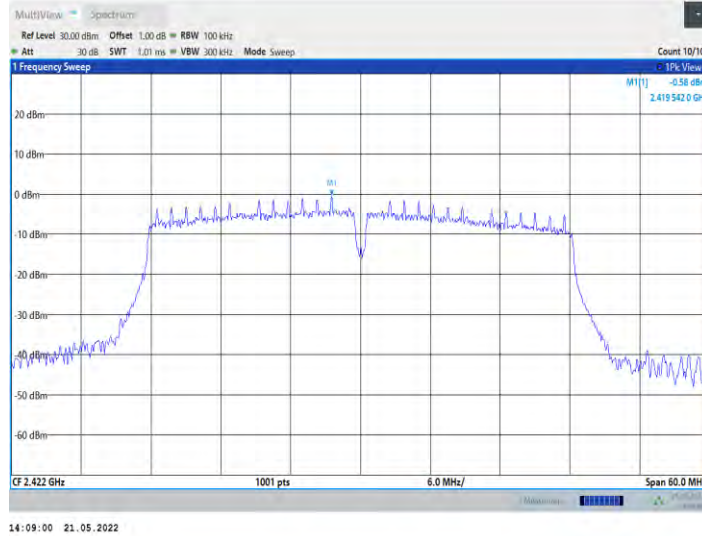


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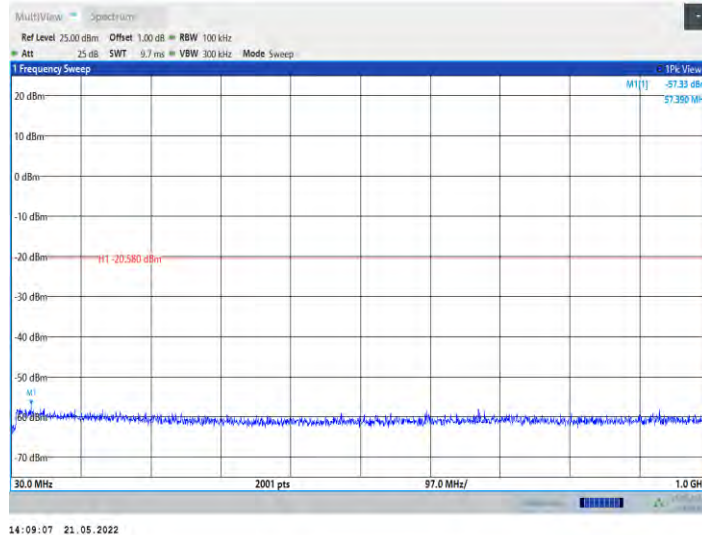
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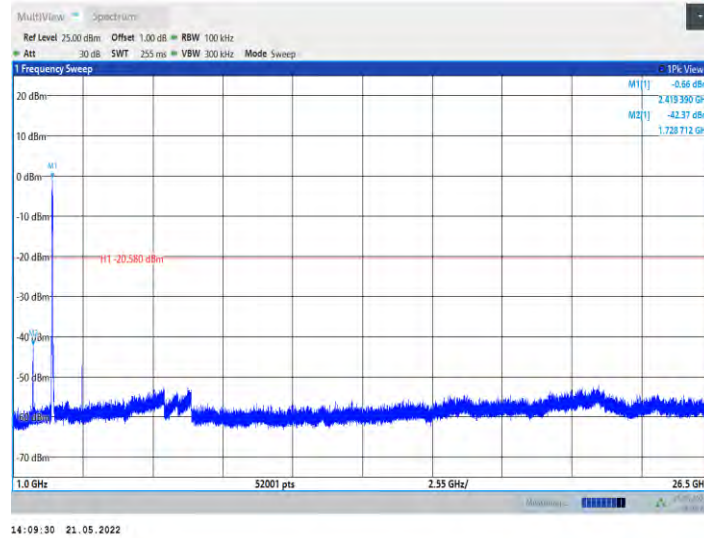
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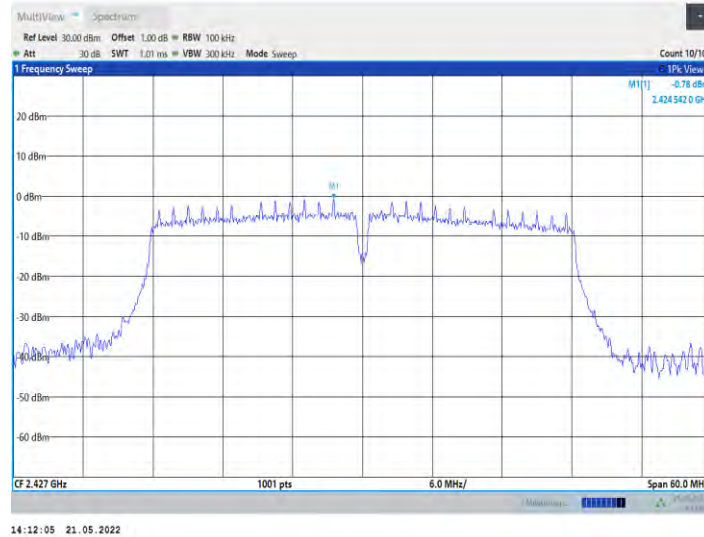
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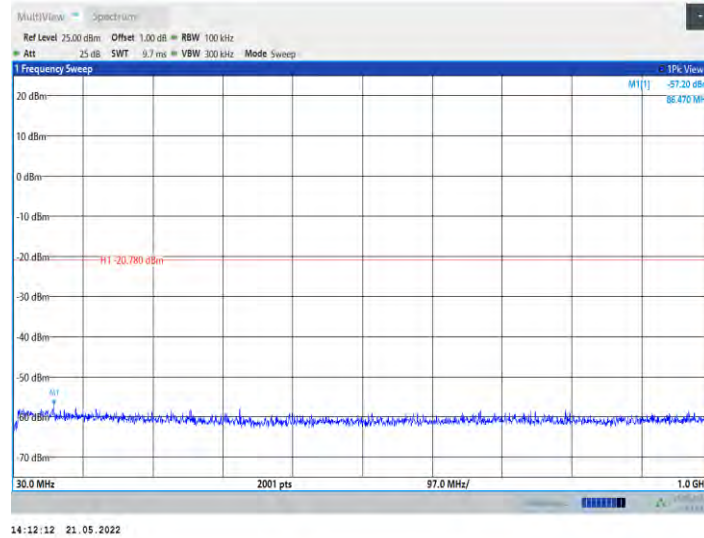


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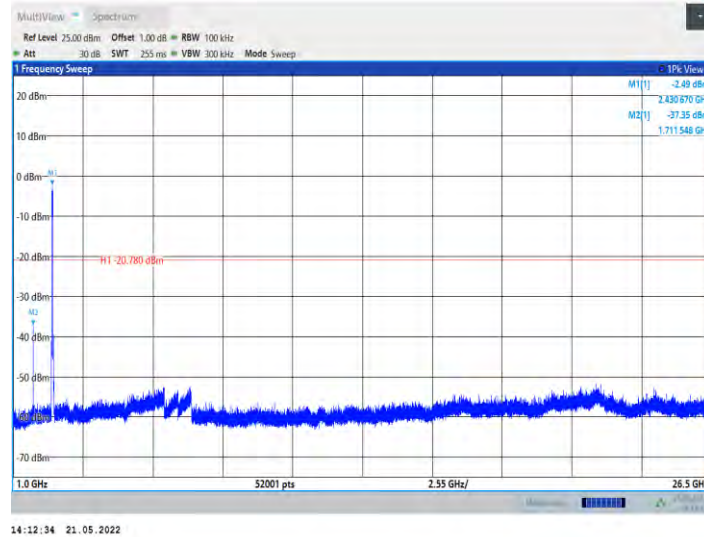


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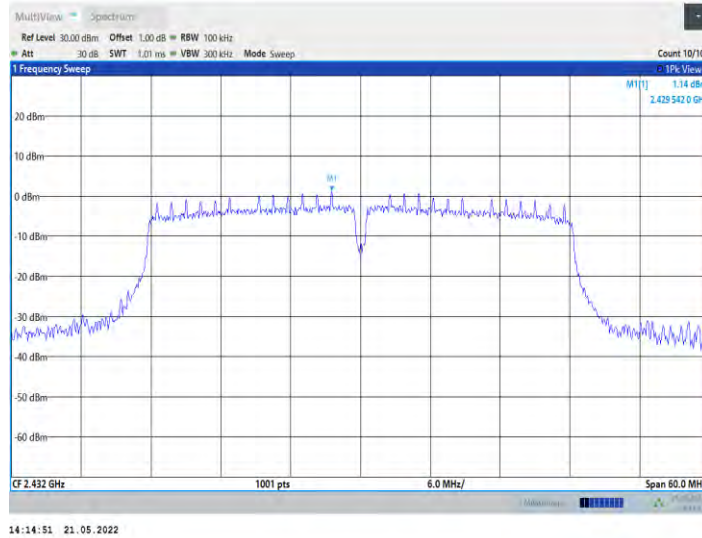


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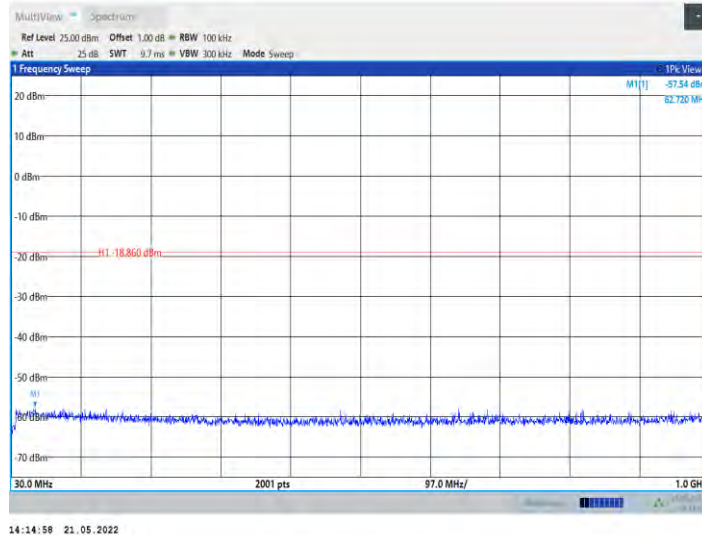
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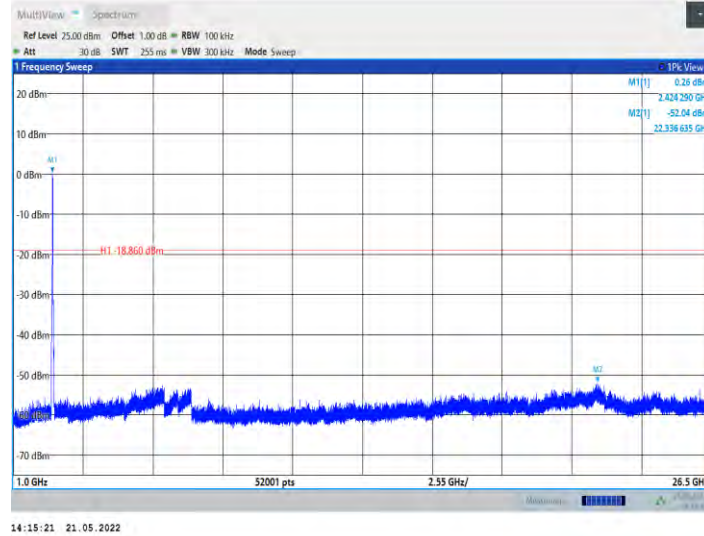


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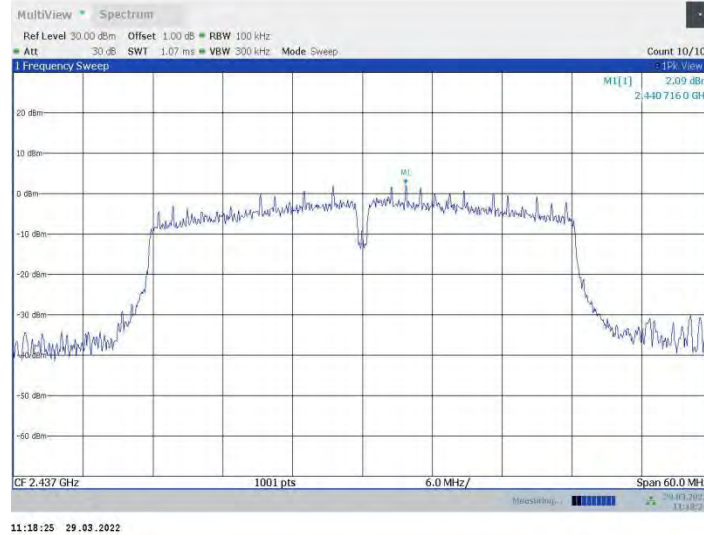
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11N40SISO\_Ant 2\_2432\_1000~26500



11N40SISO\_Ant 2\_2437\_0~Reference

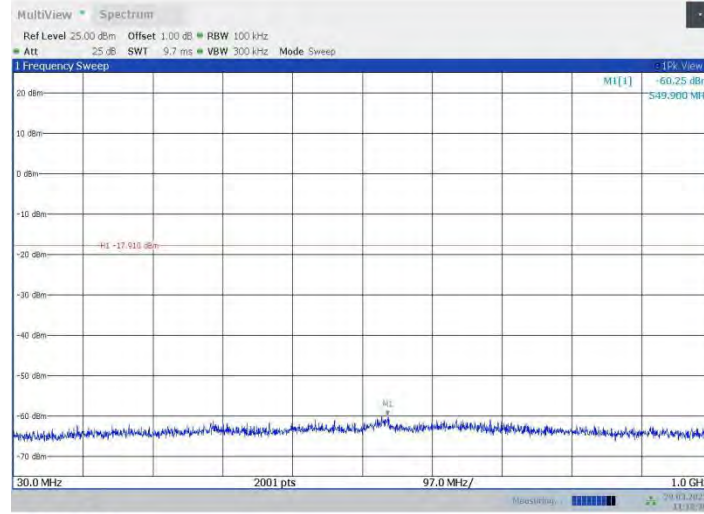


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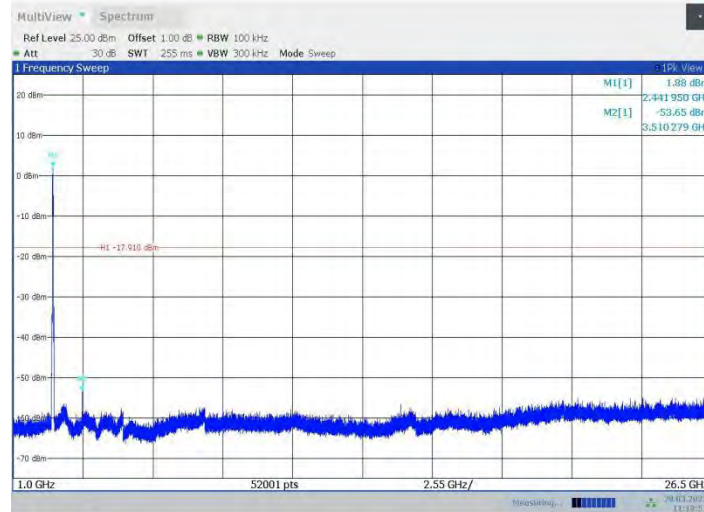
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11N40SISO\_Ant 2\_2437\_30~1000



11:18:31 29.03.2022

11N40SISO\_Ant 2\_2437\_1000~26500



11:18:52 29.03.2022

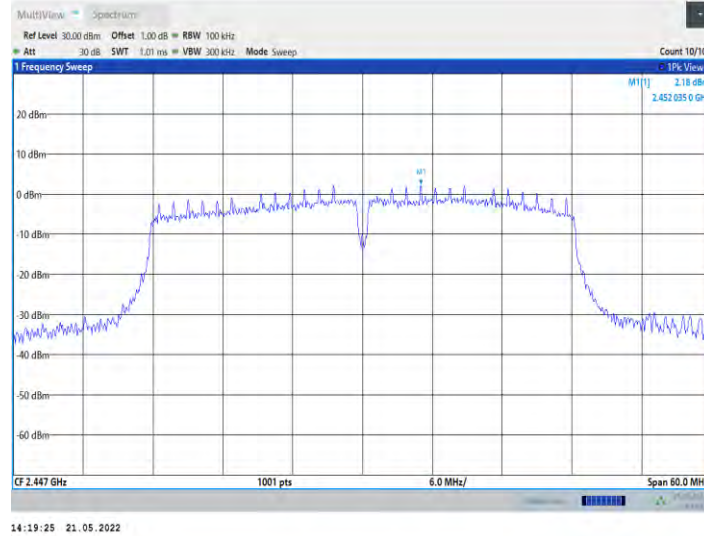


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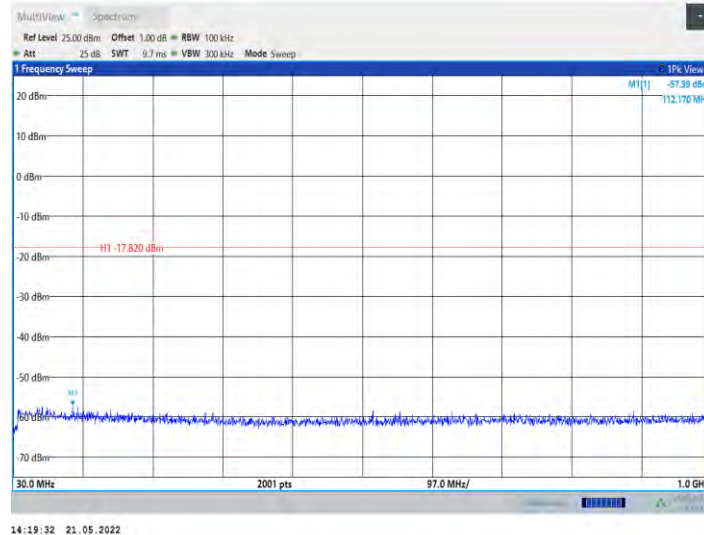
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11N40SISO\_Ant 2\_2447\_0~Reference



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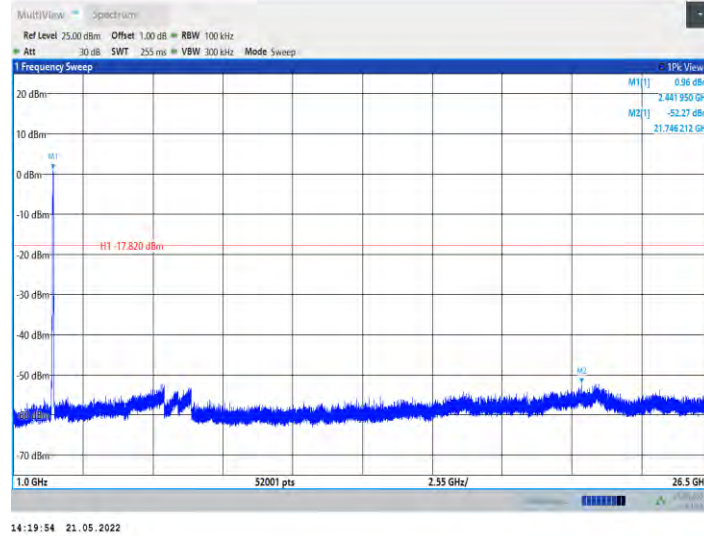


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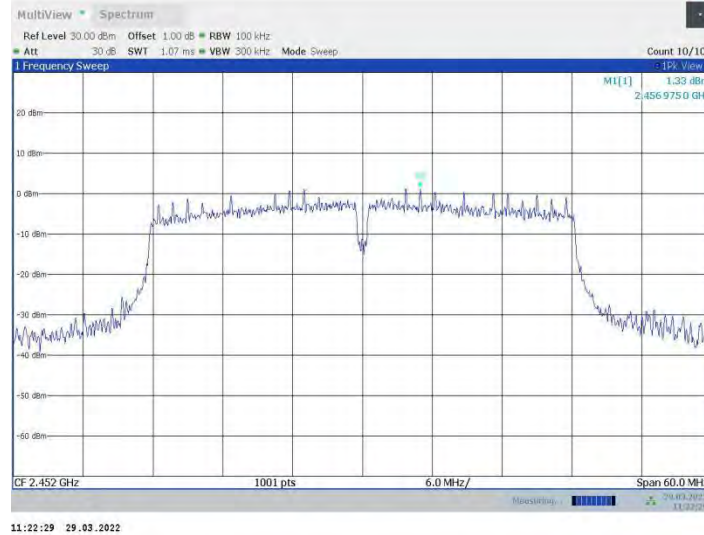
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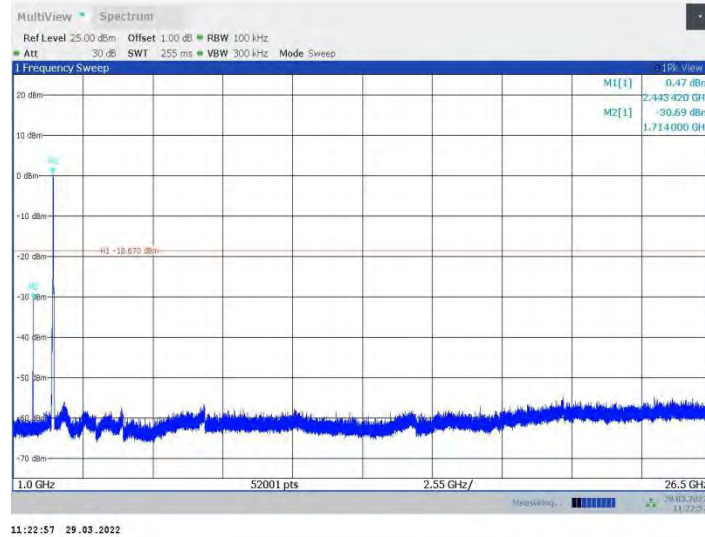
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## Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11B	Ant 2	2412	8.40	8.43	99.64
11G	Ant 2	2412	1.39	1.44	96.53
11N20SISO	Ant 2	2412	1.30	1.35	96.30
11N40SISO	Ant 2	2422	0.64	0.69	92.75



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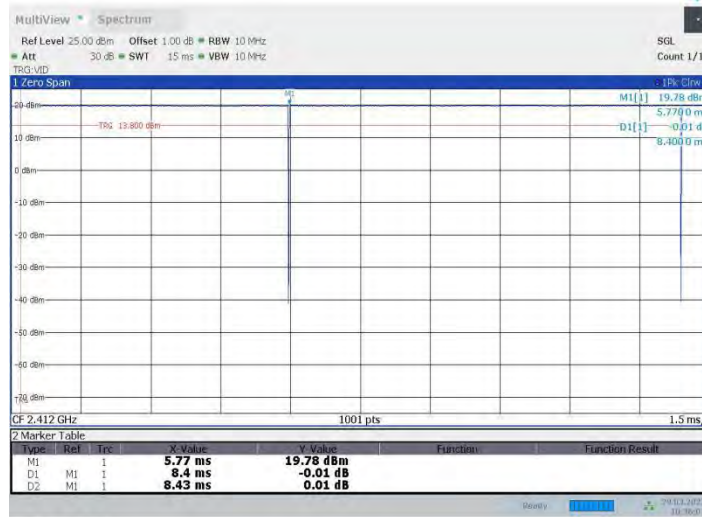
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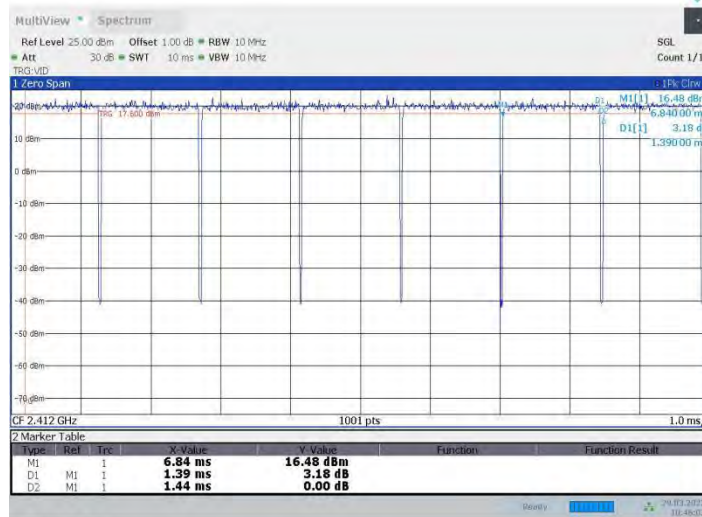
Test Graphs

11B Ant 2 2412



10:36:01 29.03.2022

11G Ant 2 2412



10:46:04 29.03.2022



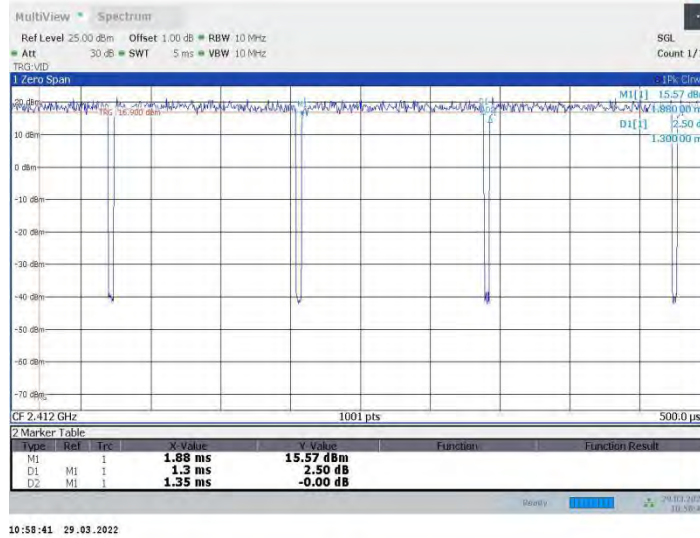
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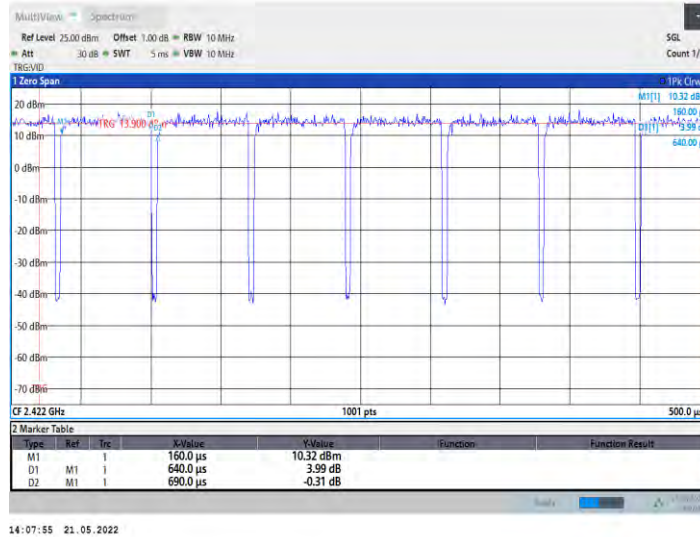
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11N20SISO\_Ant 2\_2412



10:58:41 29.03.2022

11N40SISO\_Ant 2\_2422



14:07:55 21.05.2022



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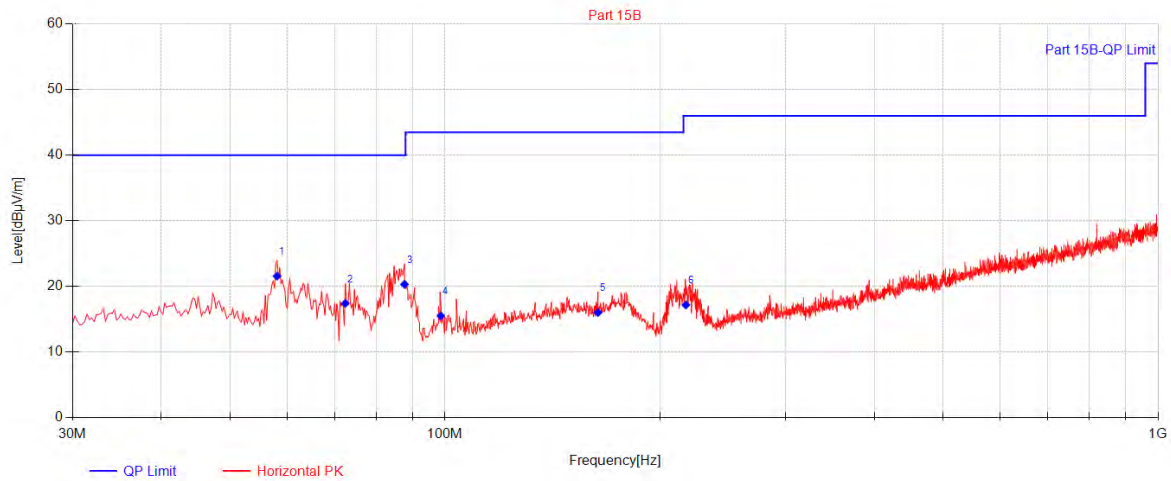
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## Radiated Spurious Emissions

### Radiated emission below 1GHz

Worst case Mode:

### 2.4G WIFI\_LF



Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	58.13	45.01	-23.45	21.56	40.00	18.44	218	277	Horizontal
2	72.4375	43.25	-25.86	17.39	40.00	22.61	124	147	Horizontal
3	87.715	47.15	-26.84	20.31	40.00	19.69	236	170	Horizontal
4	98.6275	41.29	-25.80	15.49	43.50	28.01	255	163	Horizontal
5	163.86	37.02	-21.01	16.01	43.50	27.49	296	0	Horizontal
6	217.695	41.58	-24.42	17.16	46.00	28.84	201	20	Horizontal



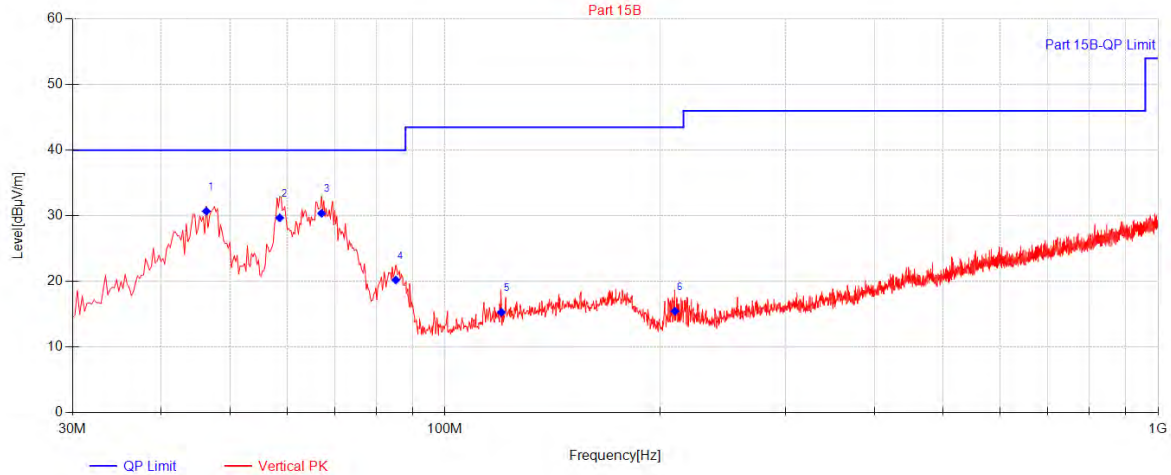
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### 2.4G WIFI\_LF



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	46.2475	53.26	-22.57	30.69	40.00	9.31	218	212	Vertical
2	58.615	53.18	-23.50	29.68	40.00	10.32	191	244	Vertical
3	67.1025	55.48	-25.11	30.37	40.00	9.63	172	59	Vertical
4	85.29	46.89	-26.68	20.21	40.00	19.79	200	293	Vertical
5	119.9675	39.19	-23.91	15.28	43.50	28.22	236	237	Vertical
6	210.1775	40.22	-24.77	15.45	43.50	28.05	251	284	Vertical



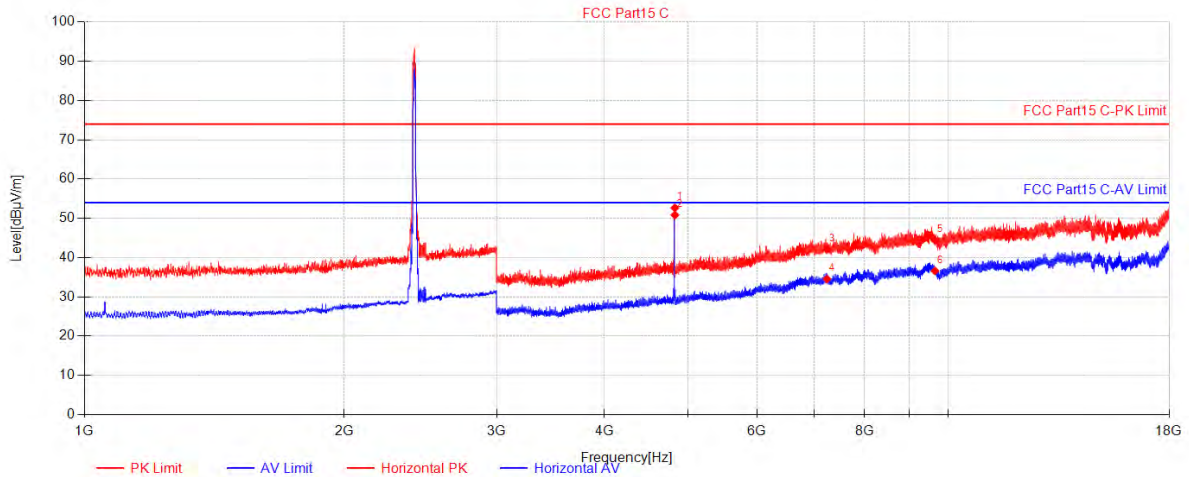
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Transmitter emission above 1GHz

802.11b\_Channel 01



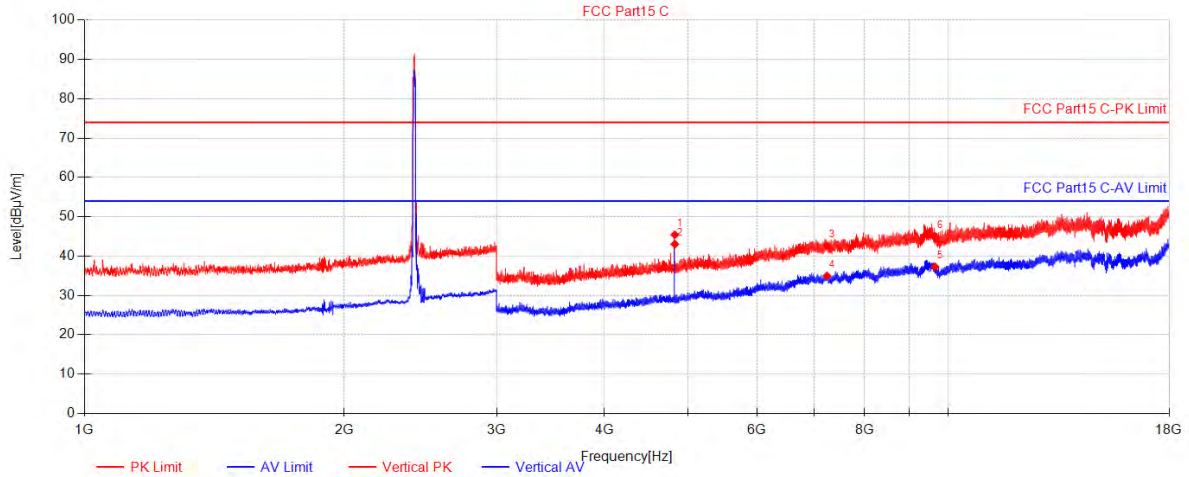
Final Data List									
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1	4824	65.81	-13.15	52.66	74.00	21.34	184	221	Horizontal
2	4824.5	64.00	-13.15	50.85	54.00	3.15	236	134	Horizontal
3	7236.0000	49.07	-6.96	42.11	74.00	31.89	299	266	Horizontal
4	7236.0000	41.50	-6.96	34.54	54.00	19.46	170	188	Horizontal
5	9648.0000	45.55	-1.17	44.38	74.00	29.62	283	270	Horizontal
6	9648.0000	37.79	-1.17	36.62	54.00	17.38	214	82	Horizontal



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802.11b\_Channel 01



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824	58.57	-13.15	45.42	74.00	28.58	184	292	Vertical
2	4824.5	56.19	-13.15	43.04	54.00	10.96	172	267	Vertical
3	7236.0000	49.60	-6.96	42.64	74.00	31.36	233	136	Vertical
4	7236.0000	41.93	-6.96	34.97	54.00	19.03	177	240	Vertical
5	9648.0000	38.49	-1.17	37.32	54.00	16.68	194	160	Vertical
6	9648.0000	46.20	-1.17	45.03	74.00	28.97	166	357	Vertical

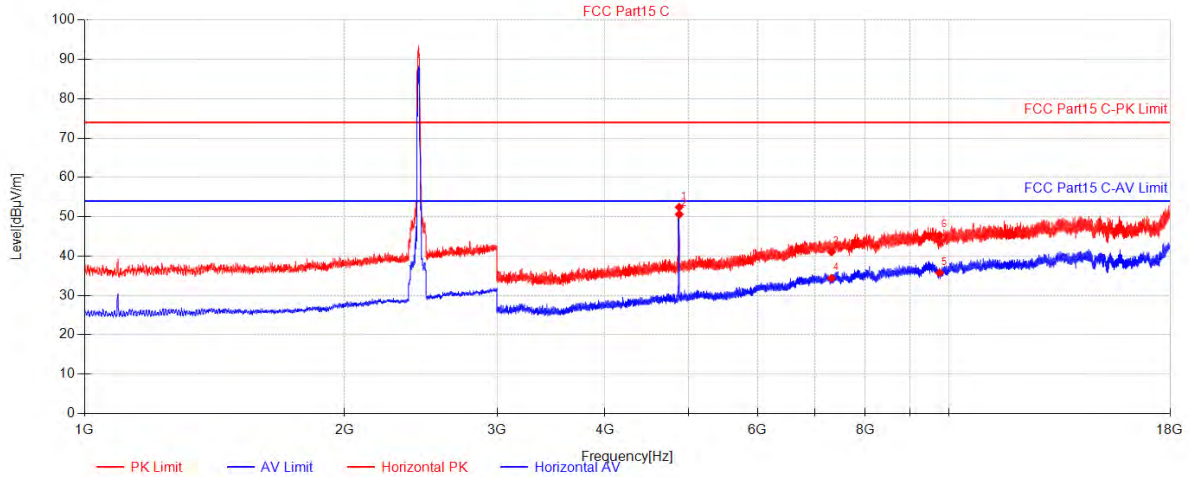


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802.11b\_Channel 06



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874	65.45	-13.01	52.44	74.00	21.56	142	142	Horizontal
2	4874.5	63.63	-13.00	50.63	54.00	3.37	100	133	Horizontal
3	7311.0000	48.23	-7.17	41.06	74.00	32.94	122	28	Horizontal
4	7311.0000	41.56	-7.17	34.39	54.00	19.61	172	108	Horizontal
5	9748.0000	36.94	-1.18	35.76	54.00	18.24	198	318	Horizontal
6	9748.0000	46.49	-1.18	45.31	74.00	28.69	144	255	Horizontal



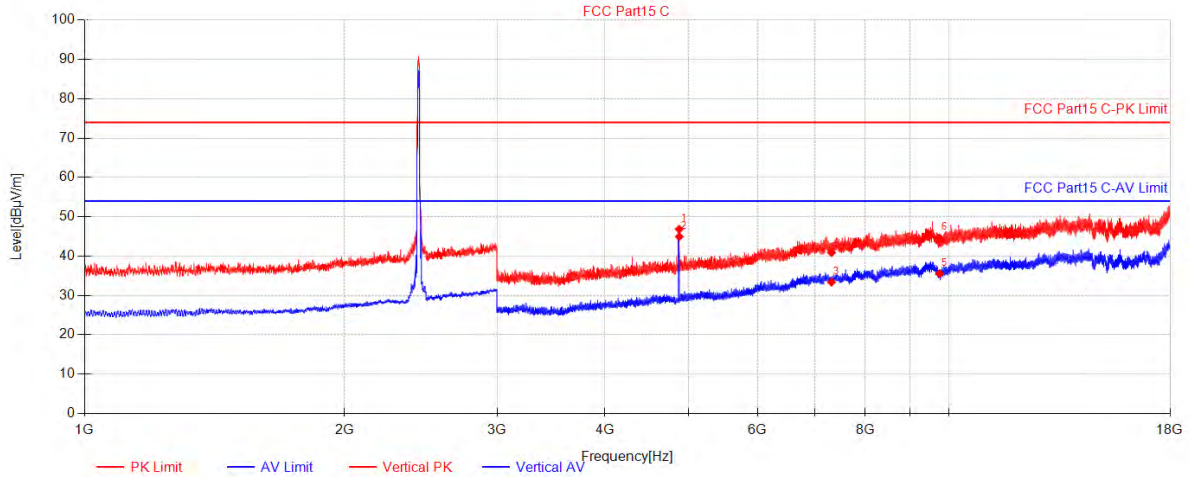
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802.11b\_Channel 06



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874	59.86	-13.01	46.85	74.00	27.15	111	190	Vertical
2	4874.5	57.95	-13.00	44.95	54.00	9.05	253	190	Vertical
3	7311.0000	40.54	-7.17	33.37	54.00	20.63	201	264	Vertical
4	7311.0000	48.06	-7.17	40.89	74.00	33.11	178	28	Vertical
5	9748.0000	36.72	-1.18	35.54	54.00	18.46	122	145	Vertical
6	9748.0000	45.82	-1.18	44.64	74.00	29.36	192	163	Vertical

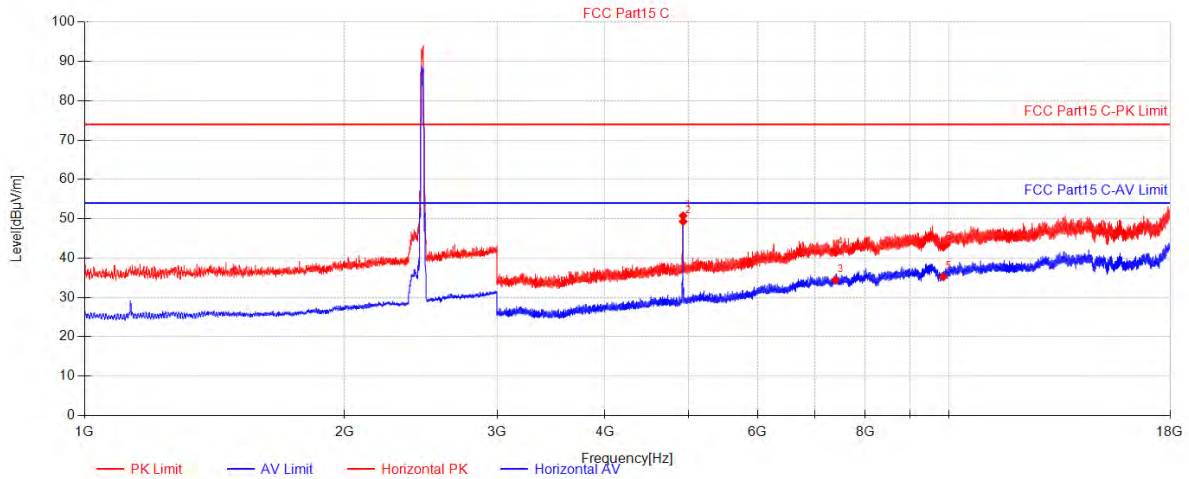


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802.11b\_Channel 11



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924	63.65	-12.89	50.76	74.00	23.24	196	154	Horizontal
2	4924.5	62.18	-12.89	49.29	54.00	4.71	145	136	Horizontal
3	7386.0000	41.37	-6.96	34.41	54.00	19.59	155	266	Horizontal
4	7386.0000	48.35	-6.96	41.39	74.00	32.61	172	295	Horizontal
5	9848.0000	36.39	-1.12	35.27	54.00	18.73	136	144	Horizontal
6	9848.0000	43.94	-1.12	42.82	74.00	31.18	201	84	Horizontal

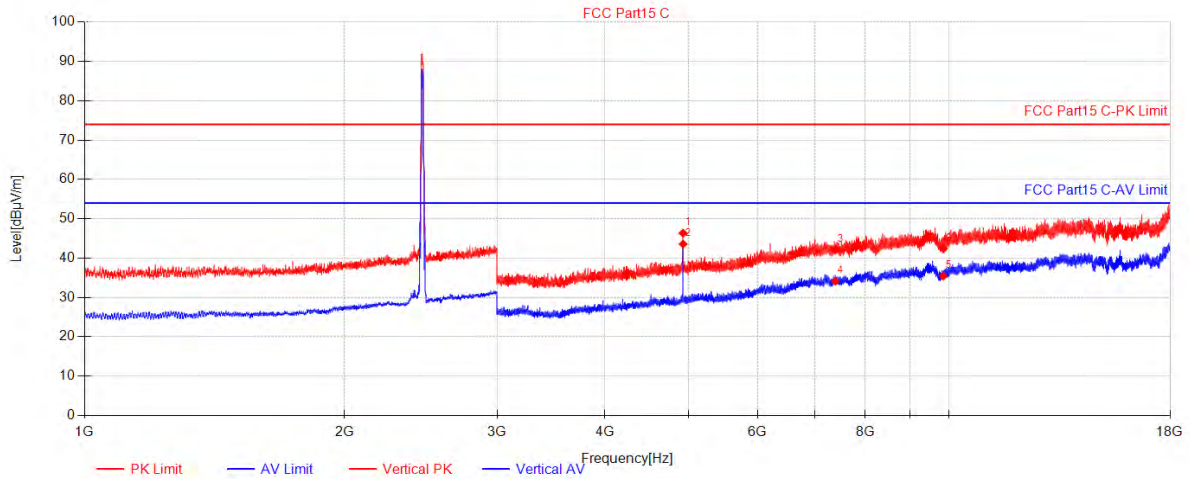


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802.11b\_Channel 11



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924	59.24	-12.89	46.35	74.00	27.65	142	291	Vertical
2	4924.5	56.46	-12.89	43.57	54.00	10.43	195	267	Vertical
3	7386.0000	49.07	-6.96	42.11	74.00	31.89	172	273	Vertical
4	7386.0000	41.08	-6.96	34.12	54.00	19.88	190	294	Vertical
5	9848.0000	36.55	-1.12	35.43	54.00	18.57	149	233	Vertical
6	9848.0000	43.47	-1.12	42.35	74.00	31.65	238	188	Vertical

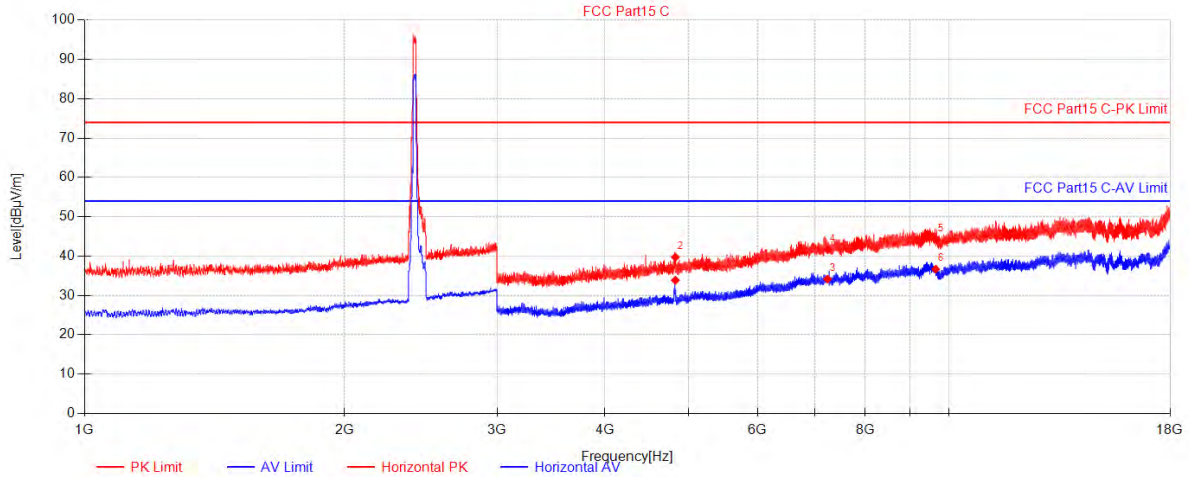


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802.11g\_Channel 01



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4823.5	47.01	-13.15	33.86	54.00	20.14	154	109	Horizontal
2	4824.0000	52.87	-13.15	39.72	74.00	34.28	235	135	Horizontal
3	7236.0000	41.12	-6.96	34.16	54.00	19.84	189	4	Horizontal
4	7236.0000	48.58	-6.96	41.62	74.00	32.38	192	271	Horizontal
5	9648.0000	45.43	-1.17	44.26	74.00	29.74	181	4	Horizontal
6	9648.0000	37.85	-1.17	36.68	54.00	17.32	172	109	Horizontal

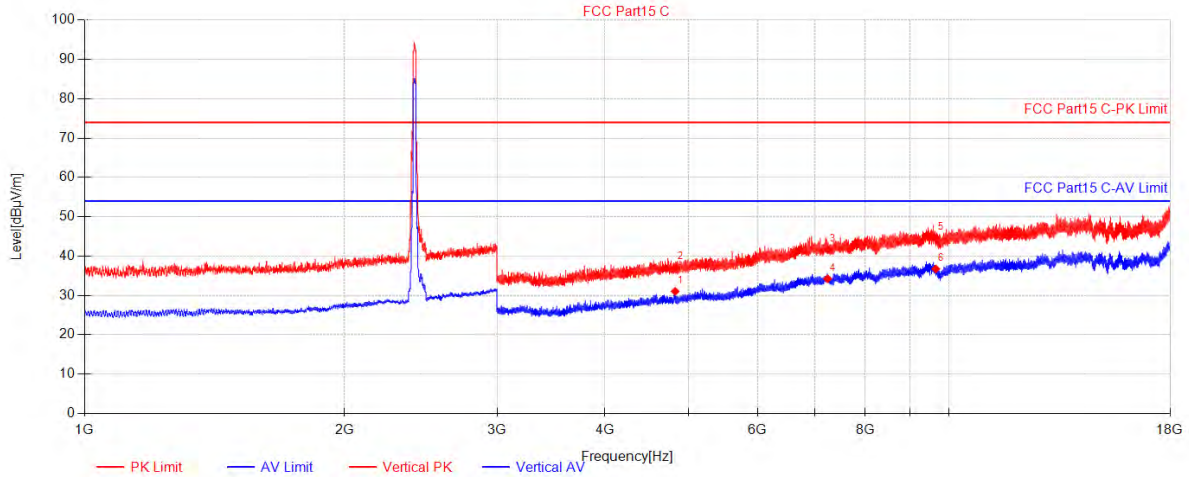


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802.11g\_Channel 01



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4821.5	44.21	-13.16	31.05	54.00	22.95	292	215	Vertical
2	4824.0000	50.28	-13.15	37.13	74.00	36.87	256	57	Vertical
3	7236.0000	48.63	-6.96	41.67	74.00	32.33	173	84	Vertical
4	7236.0000	41.19	-6.96	34.23	54.00	19.77	248	293	Vertical
5	9648.0000	45.78	-1.17	44.61	74.00	29.39	200	28	Vertical
6	9648.0000	37.91	-1.17	36.74	54.00	17.26	231	155	Vertical



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