

Report No.: SEWM2206000086RG04

Rev.: 01

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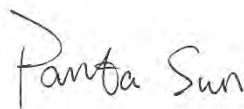
# TEST REPORT

**Application No.:** SEWM2206000086RG  
**Applicant:** Lenovo (Shanghai) Electronics Technology Co., Ltd.  
**Address of Applicant:** Section 304-305, Building No. 4, # 222, Meiyue Road, China (Shanghai) Pilot Free Trade Zone  
**Manufacturer:** Lenovo PC HK Limited  
**Address of Manufacturer:** 23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong, China  
**EUT Description:** Portable Tablet Computer  
**Model No.:** HB286ZJ  
**Trade Mark:** Lenovo  
**FCC ID:** O57HB286ZJ  
**Standards:** FCC 47 CFR Part 2, Subpart J  
 FCC 47 CFR Part 15, Subpart C  
**Date of Receipt:** 2022/06/20  
**Date of Test:** 2022/06/20 to 2022/07/18  
**Date of Issue:** 2022/07/21

<b>Test Result :</b>	<b>PASS *</b>
----------------------	---------------

\* 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		2022/07/21		Original

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



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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

Applicant:	Lenovo (Shanghai) Electronics Technology Co., Ltd.
Address of Applicant:	Section 304-305, Building No. 4, # 222, Meiyue Road, China (Shanghai) Pilot Free Trade Zone
Manufacturer:	Lenovo PC HK Limited
Address of Manufacturer:	23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, 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:	Lves Cheng, Tizzy Song

#### 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>
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### 3.4 General Description of EUT

EUT Description:	Portable Tablet Computer	
Model No.:	HB286ZJ	
Trade Mark:	Lenovo	
Hardware Version:	V1	
Software Version:	HB286ZJ_RF04_2205091416	
IMEI:	860893060010441 860893060010698	
Operation Frequency:	802.11b/g/n(HT20):	2412MHz to 2462MHz
	802.11n(HT40):	2422MHz to 2452MHz
Modulation Type:	802.11b:	DSSS (DBPSK, DQPSK, CCK)
	802.11g/n:	OFDM (BPSK, QPSK, 16QAM, 64QAM)
Number of Channels:	802.11b/g/n(HT20): 11 802.11n(HT40): 7	
Channel Spacing:	5MHz	
Smart System:	<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:	PIFA Antenna	
Antenna Gain*:	<input checked="" type="checkbox"/> Provided by client	
	1.5dBi(ANT7)	
RF Cable:	1dB	

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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				

### 3.5 Test Environment and Mode

Environment Parameter	101.0 kPa Selected Values During Tests	
Relative Humidity	44-60 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~25	3.85

Remark:  
 NV: Normal Voltage  
 NT: Normal Temperature

### 3.6 Description of Support Units

The EUT has been tested as an independent unit.

### 3.7 Worst-case configuration and mode

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

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



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## 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 1.5dBi(ANT7). (Provided by client)*.</p> <p><i>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.</i></p> <p><i>Remark:</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.</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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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.

For Sample #1:

Phase:	Line
--------	------

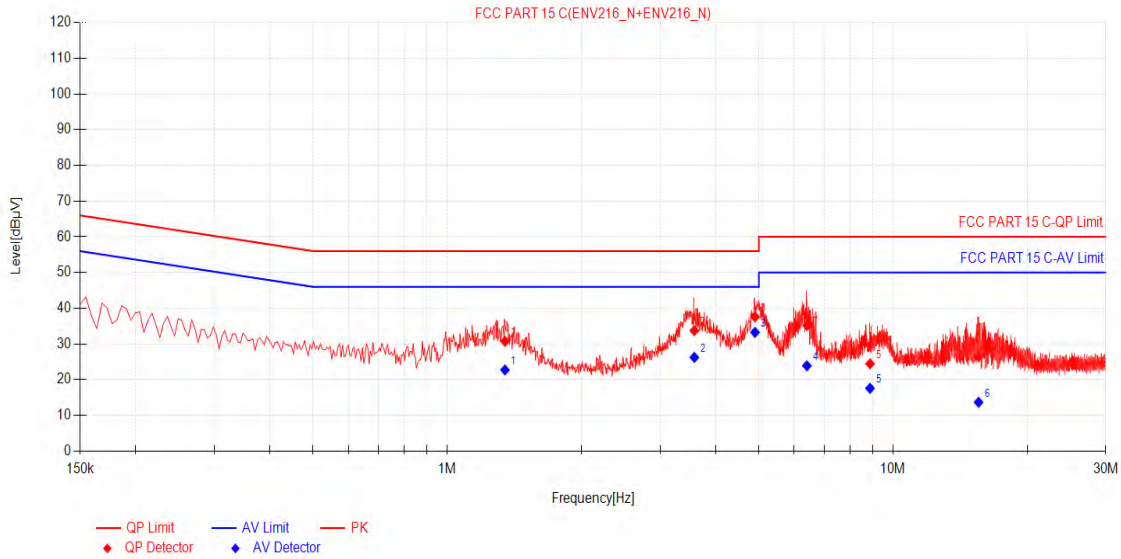
Final Data List											
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1545	10.64	30.06	40.70	65.75	25.05	22.39	33.03	55.75	22.72	PASS
2	1.3335	10.78	18.76	29.54	56.00	26.46	10.48	21.26	46.00	24.74	PASS
3	3.5295	10.70	22.86	33.56	56.00	22.44	16.47	27.17	46.00	18.83	PASS
4	4.9920	10.64	24.10	34.74	56.00	21.26	18.77	29.41	46.00	16.59	PASS
5	6.4275	10.68	21.19	31.87	60.00	28.13	11.25	21.93	50.00	28.07	PASS
6	9.3615	10.65	15.40	26.05	60.00	33.95	8.58	19.23	50.00	30.77	PASS

Remark:

- The following Quasi-Peak and Average measurements were performed on the EUT:
- Value = Reading(dBµV) + Factor(Lin factor(dB) + cable loss(dB)).
- Margin = Limit(dBµV) – Value(dBµV)



Phase: Neutral



**Final Data List**

NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	1.3470	10.78	19.95	30.73	56.00	25.27	11.95	22.73	46.00	23.27	PASS
2	3.5835	10.68	23.06	33.74	56.00	22.26	15.57	26.25	46.00	19.75	PASS
3	4.9020	10.64	26.93	37.57	56.00	18.43	22.61	33.25	46.00	12.75	PASS
4	6.4095	10.55	24.63	35.18	60.00	24.82	13.35	23.90	50.00	26.10	PASS
5	8.8800	10.62	13.82	24.44	60.00	35.56	6.96	17.58	50.00	32.42	PASS
6	15.5580	10.59	15.86	26.45	60.00	33.55	3.08	13.67	50.00	36.33	PASS

**Remark:**

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Value = Reading(dBµV) + Factor(Lin factor(dB) + cable loss(dB)).
3. Margin = Limit(dBµV) – Value(dBµV)



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**For Sample #2:**

<b>Phase:</b>	<b>Line</b>
---------------	-------------

NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.5100	10.61	25.96	36.57	56.00	19.43	11.11	21.72	46.00	24.28	PASS
2	0.7305	10.56	21.01	31.57	56.00	24.43	8.18	18.74	46.00	27.26	PASS
3	1.2615	10.78	26.20	36.98	56.00	19.02	17.08	27.86	46.00	18.14	PASS
4	3.5340	10.70	29.89	40.59	56.00	15.41	23.49	34.19	46.00	11.81	PASS
5	4.8885	10.64	30.27	40.91	56.00	15.09	24.15	34.79	46.00	11.21	PASS
6	6.2475	10.69	30.61	41.30	60.00	18.70	16.62	27.31	50.00	22.69	PASS

**Remark:**

- The following Quasi-Peak and Average measurements were performed on the EUT:
- Value = Reading(dBµV) + Factor(Lin factor(dB) + cable loss(dB)).
- Margin = Limit(dBµV) – Value(dBµV)

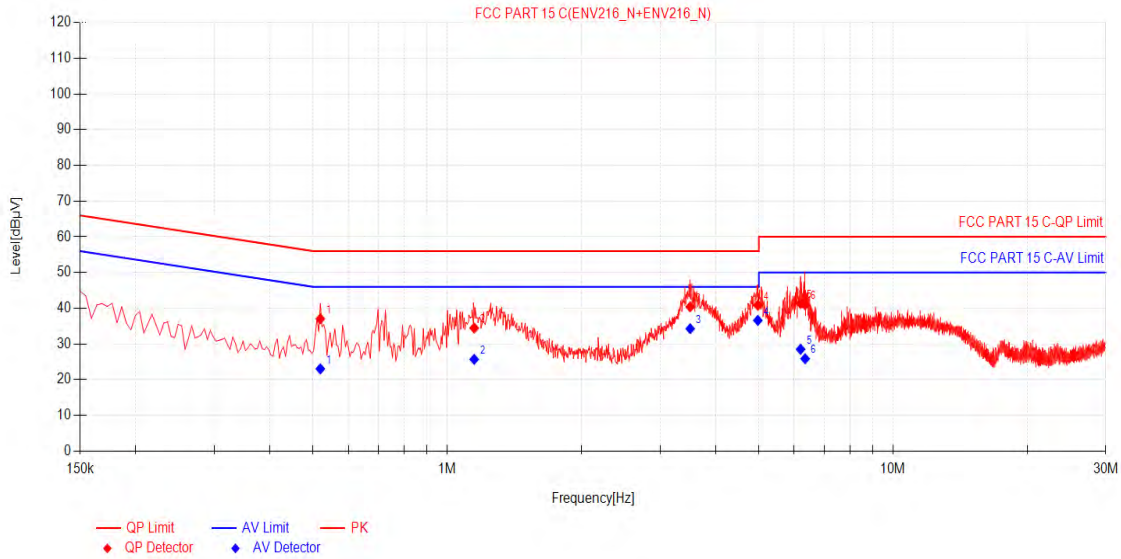


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Phase: Neutral



**Final Data List**

NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.5190	10.79	26.26	37.05	56.00	18.95	12.25	23.04	46.00	22.96	PASS
2	1.1490	10.74	23.72	34.46	56.00	21.54	14.96	25.70	46.00	20.30	PASS
3	3.5070	10.67	29.72	40.39	56.00	15.61	23.61	34.28	46.00	11.72	PASS
4	4.9740	10.64	30.21	40.85	56.00	15.15	25.96	36.60	46.00	9.40	PASS
5	6.2025	10.56	30.77	41.33	60.00	18.67	17.95	28.51	50.00	21.49	PASS
6	6.3510	10.55	30.42	40.97	60.00	19.03	15.32	25.87	50.00	24.13	PASS

**Remark:**

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Value = Reading(dBµV) + Factor(Lin factor(dB) + cable loss(dB)).
3. Margin = Limit(dBµV) – Value(dBµV)



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Report No.: SEWM2206000086RG04

Rev.: 01

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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 Section11.9.2.3
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:

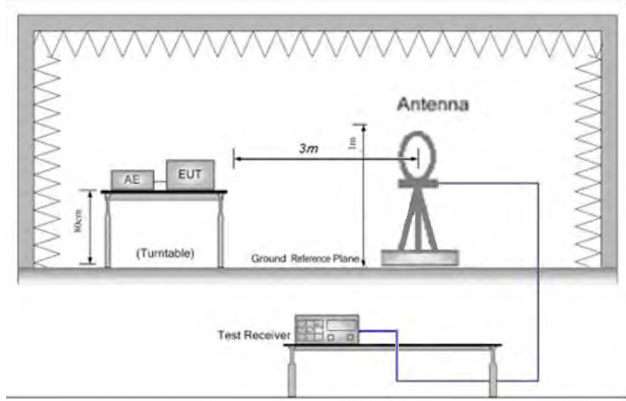


Figure 1. Below 30MHz

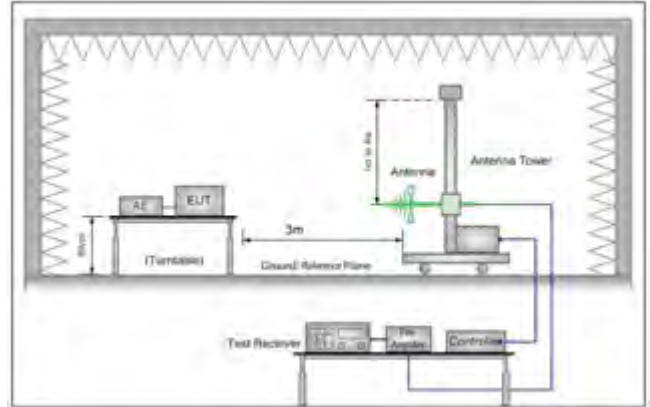


Figure 2. 30MHz to 1GHz

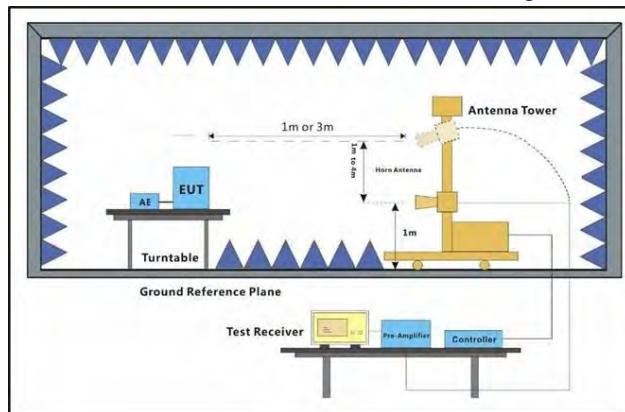


Figure 3. Above 1 GHz

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



	<p>maximum reading.</p> <p>f. The test-receiver system was set to Peak Detect Function and Specified 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 \text{ dB}</math>.</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 3 \text{ MHz}</math></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 [3 \cdot \text{RBW}]</math></li> <li>• Detector = RMS (power averaging), if span / (# of points in sweep) <math>\leq (\text{RBW} / 2)</math>. 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>
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>	



### 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:

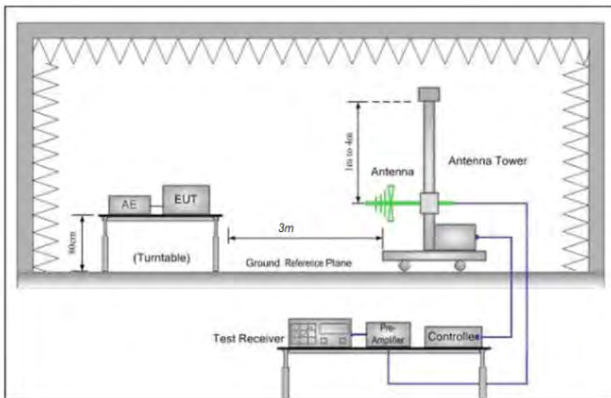


Figure 1. 30MHz to 1GHz

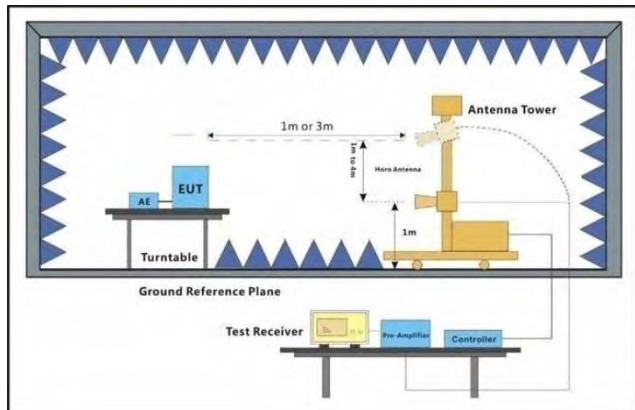


Figure 2. Above 1 GHz



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<p>Test Procedure:</p>	<ol style="list-style-type: none"> <li>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.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>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</li> <li>h. Test the EUT in the lowest channel , the Highest channel</li> <li>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.</li> <li>j. 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>Exploratory Test Mode:</p>	<p>Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.</p>





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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	Radiated Emission	± 3.13dB (9k -30MHz)
		± 4.8dB (30M -1GHz)
		± 4.8dB (1GHz to 18GHz)
		± 4.8dB (Above 18GHz)

Remark:

The  $U_{lab}$  (lab Uncertainty) is less than  $U_{CISPR/ETSI}$  (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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## 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	2021/05/08	2024/05/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2022/02/16	2023/02/15
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2022/05/17	2023/05/16
Measurement Software	Tonscend	JS1120-3 Test System V3.1.55	SUWI-02-09-09	NCR	NCR
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2021/12/04	2022/12/03
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2021/12/04	2022/12/03
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2022/02/15	2023/02/14
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	2022/02/14	2023/02/13
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2022/02/14	2023/02/13

CE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/05/08	2024/05/07
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2022/02/16	2023/02/15
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2022/02/16	2023/02/15
Measurement Software	Tonscend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/16	2023/02/15
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2022/02/16	2023/02/15



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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	2021/05/08	2024/05/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2022/02/16	2023/02/15
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-05	2021/12/04	2022/12/03
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/05/16	2023/05/15
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/05/16	2023/05/15
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/05/14	2023/05/13
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2022/02/14	2023/02/13
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2022/02/14	2023/02/13
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2022/02/19	2023/02/18
Active Loop Antenna	SCHWRZBECK MESS- ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/06/10	2023/06/09
Measurement Software	Tonscend	JS32-RSE V4.0.0.1	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	Ant7	2412	8.16	2407.88	2416.04	≥0.5	PASS
		2437	8.16	2432.88	2441.04	≥0.5	PASS
		2462	8.16	2457.88	2466.04	≥0.5	PASS
11G	Ant7	2412	15.24	2404.36	2419.60	≥0.5	PASS
		2437	15.56	2429.36	2444.92	≥0.5	PASS
		2457	15.76	2449.04	2464.80	≥0.5	PASS
		2462	15.76	2454.16	2469.92	≥0.5	PASS
11N20SISO	Ant7	2412	15.24	2404.36	2419.60	≥0.5	PASS
		2437	16.04	2429.36	2445.40	≥0.5	PASS
		2457	16.88	2448.52	2465.40	≥0.5	PASS
		2462	16.88	2453.52	2470.40	≥0.5	PASS
11N40SISO	Ant7	2422	35.84	2404.40	2440.24	≥0.5	PASS
		2427	36.24	2409.00	2445.24	≥0.5	PASS
		2437	35.28	2419.40	2454.68	≥0.5	PASS
		2442	35.28	2424.40	2459.68	≥0.5	PASS
		2447	35.28	2429.40	2464.68	≥0.5	PASS
		2452	35.84	2434.40	2470.24	≥0.5	PASS



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Test Graphs

11B Ant7 2412



15:35:50 15.07.2022

11B Ant7 2437



14:28:55 15.07.2022



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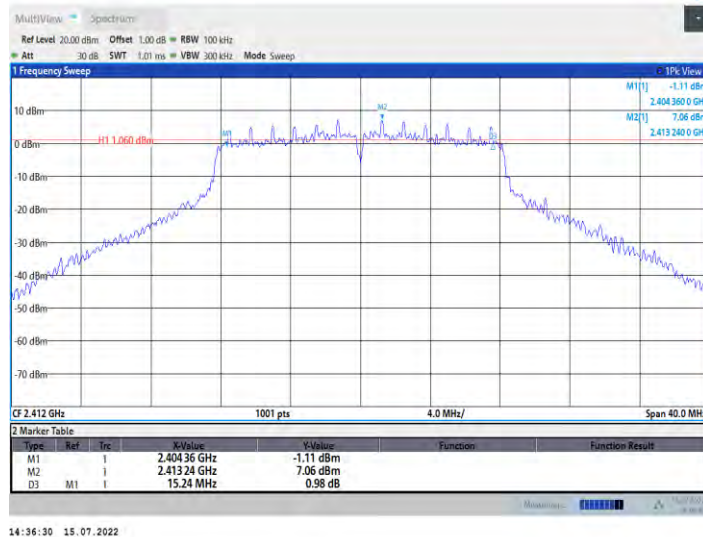
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11B Ant7 2462



11G Ant7 2412



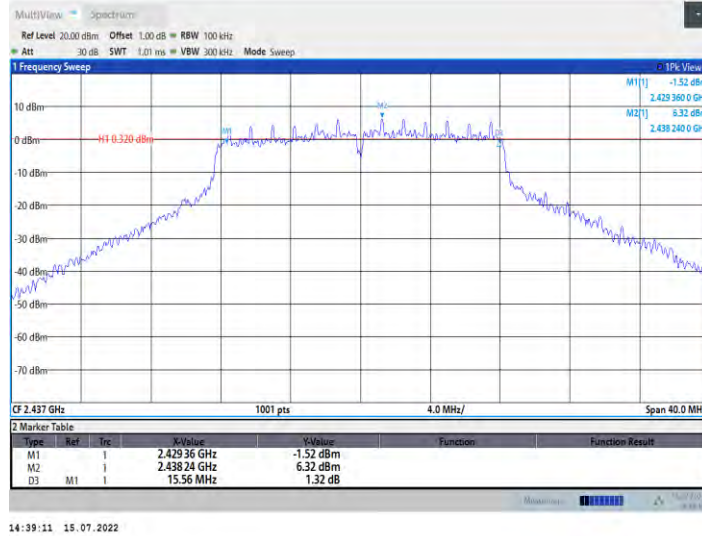
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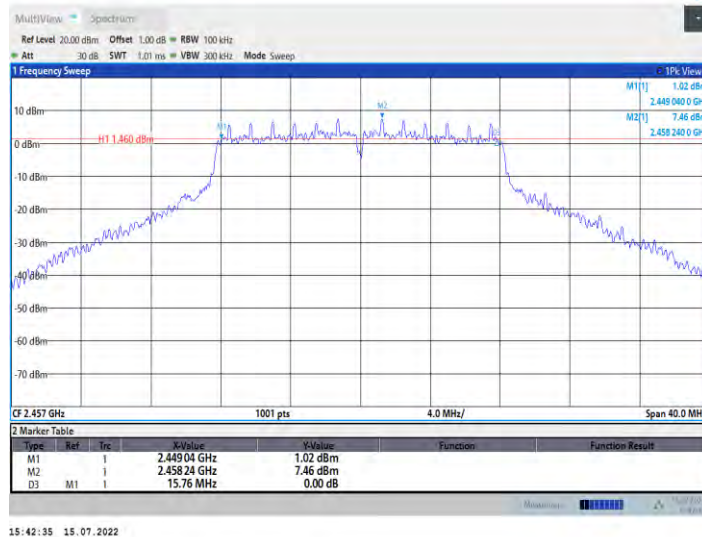
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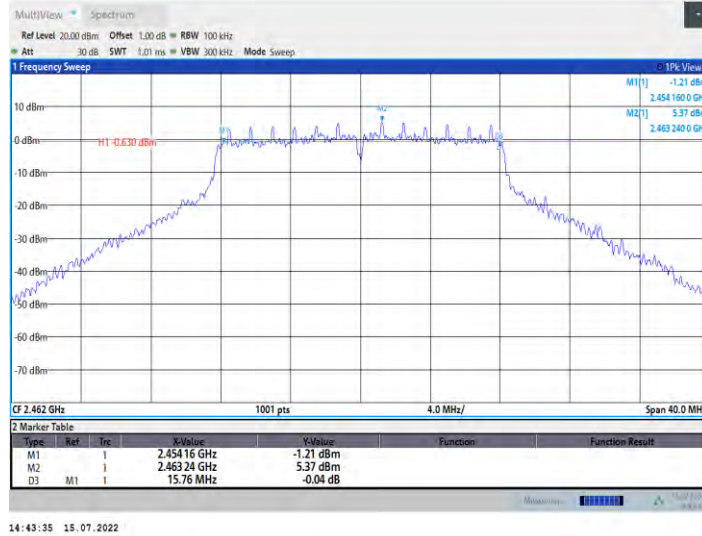
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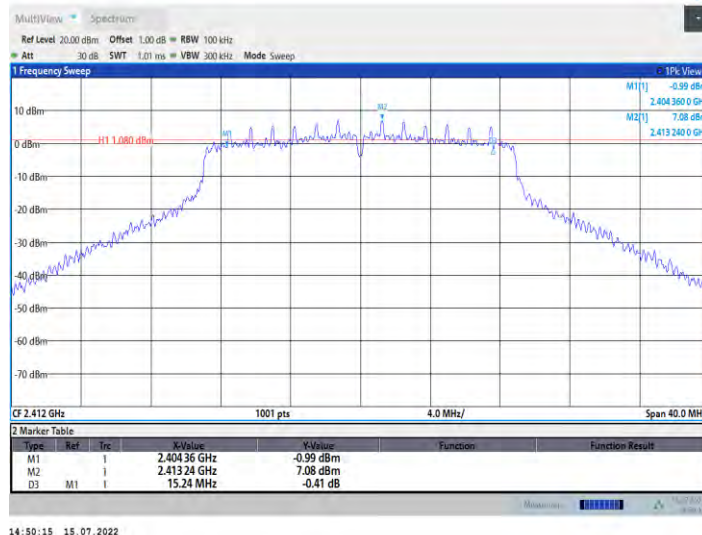
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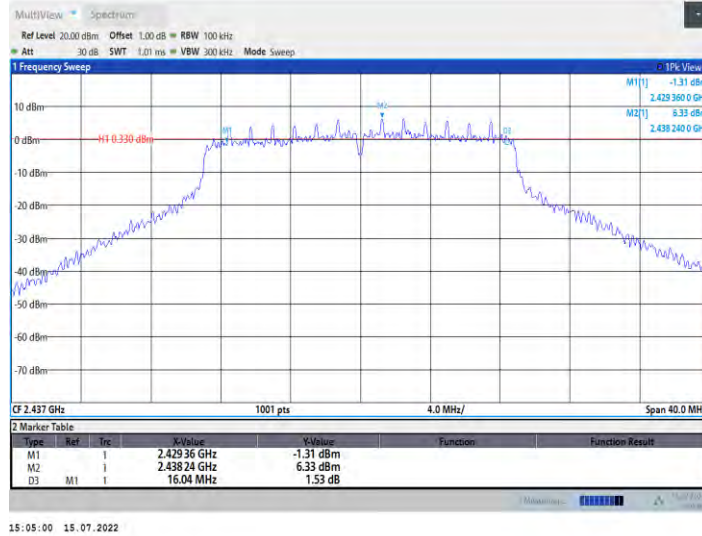
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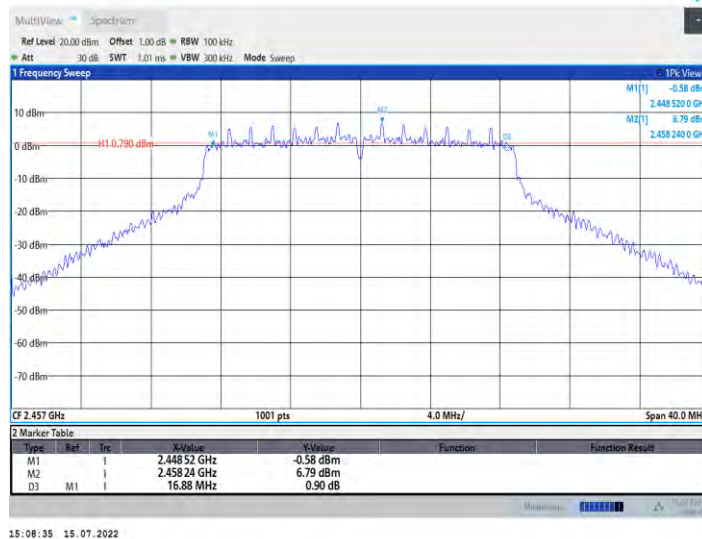
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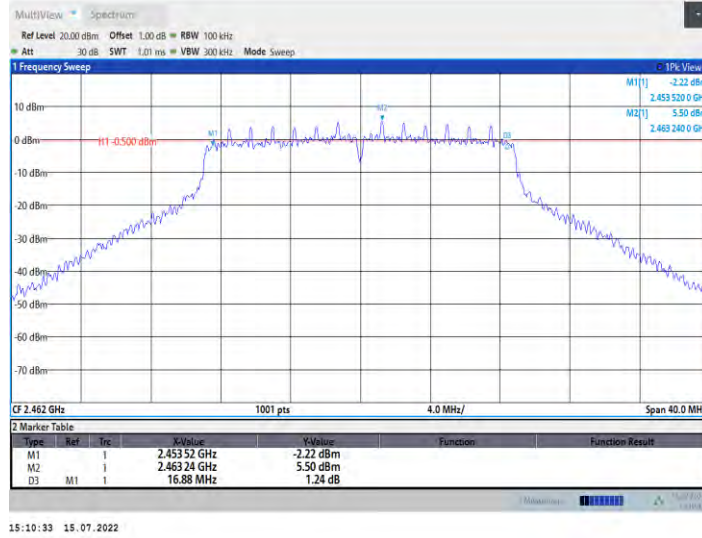


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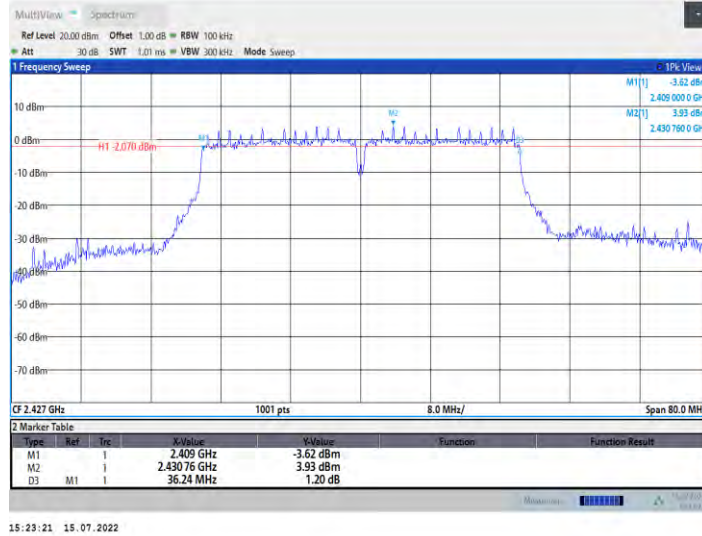
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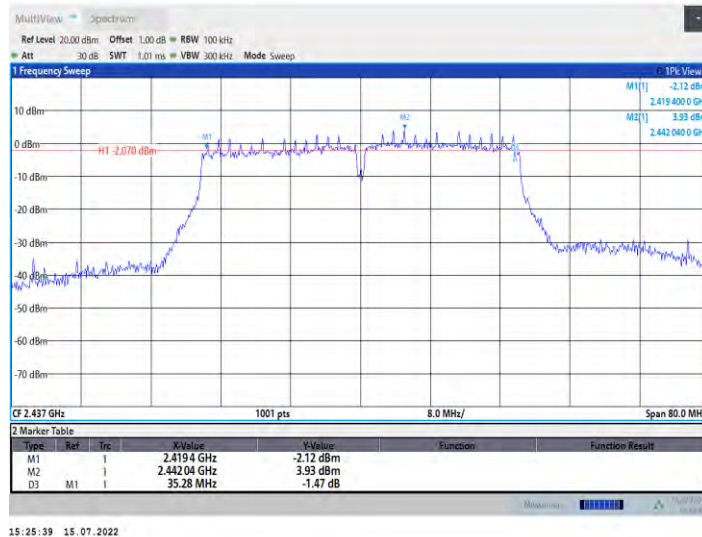
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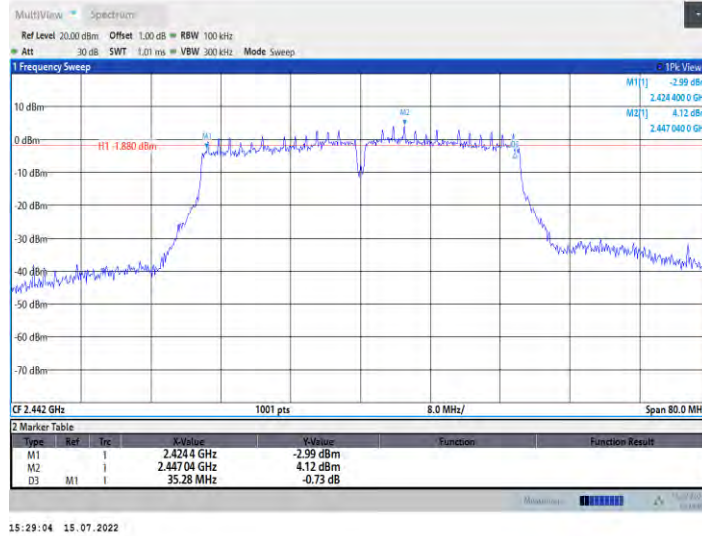
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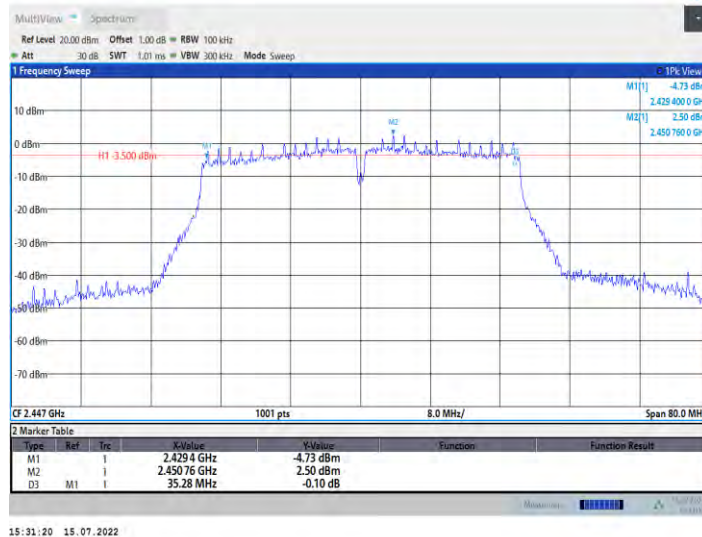
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**Occupied Channel Bandwidth  
Test Result**

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant7	2412	13.408	2405.329	2418.736	---	---
		2437	13.579	2430.366	2443.945	---	---
		2462	13.700	2455.213	2468.913	---	---
11G	Ant7	2412	16.909	2403.565	2420.474	---	---
		2437	17.086	2428.598	2445.684	---	---
		2457	17.125	2448.435	2465.560	---	---
		2462	17.075	2453.488	2470.563	---	---
11N20SISO	Ant7	2412	18.060	2403.012	2421.073	---	---
		2437	18.291	2427.993	2446.284	---	---
		2457	18.266	2447.896	2466.161	---	---
		2462	18.224	2452.941	2471.165	---	---
11N40SISO	Ant7	2422	36.552	2403.801	2440.353	---	---
		2427	36.685	2408.774	2445.459	---	---
		2437	36.564	2418.834	2455.398	---	---
		2442	36.452	2423.883	2460.335	---	---
		2447	36.433	2428.957	2465.390	---	---
		2452	36.466	2433.954	2470.420	---	---



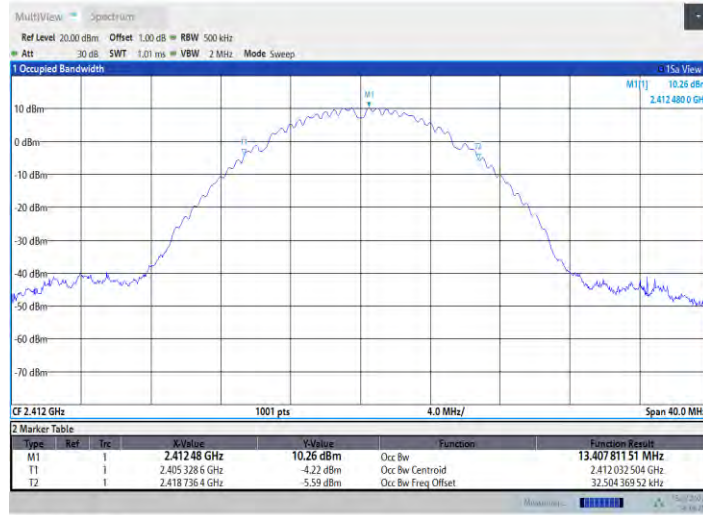
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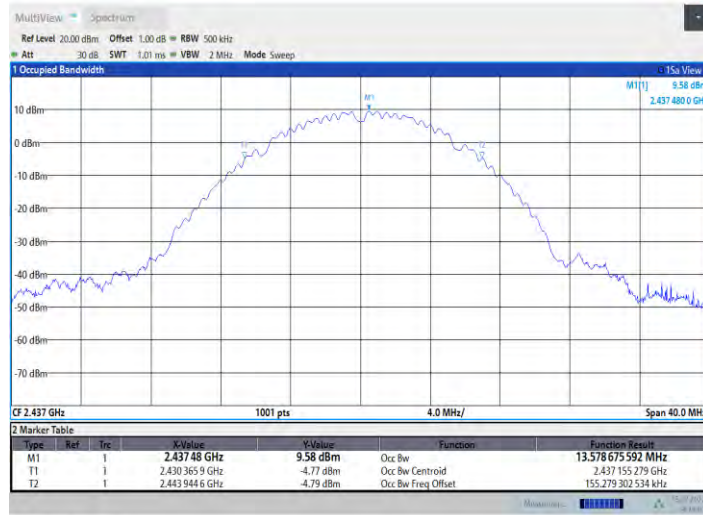
Test Graphs

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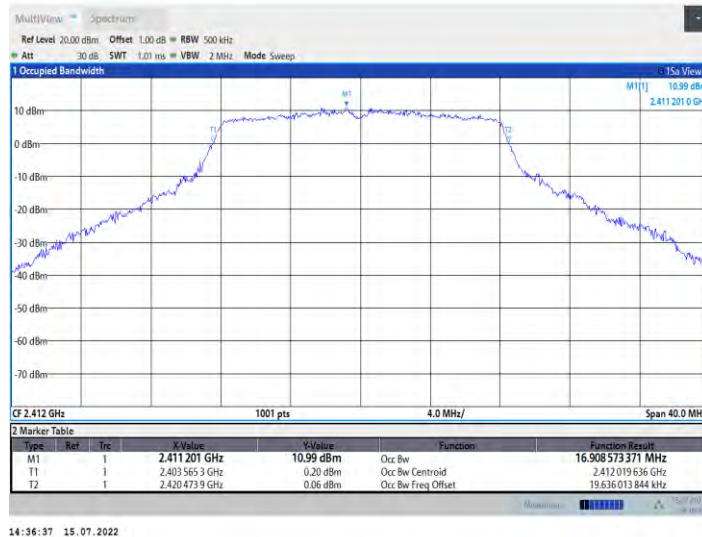
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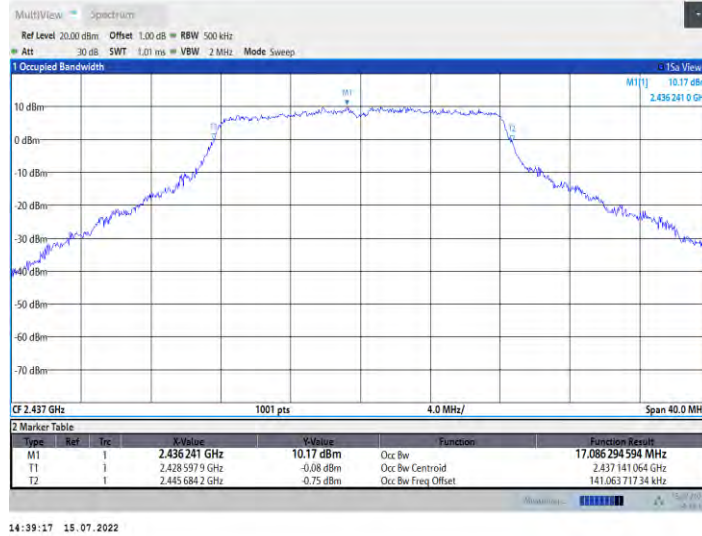


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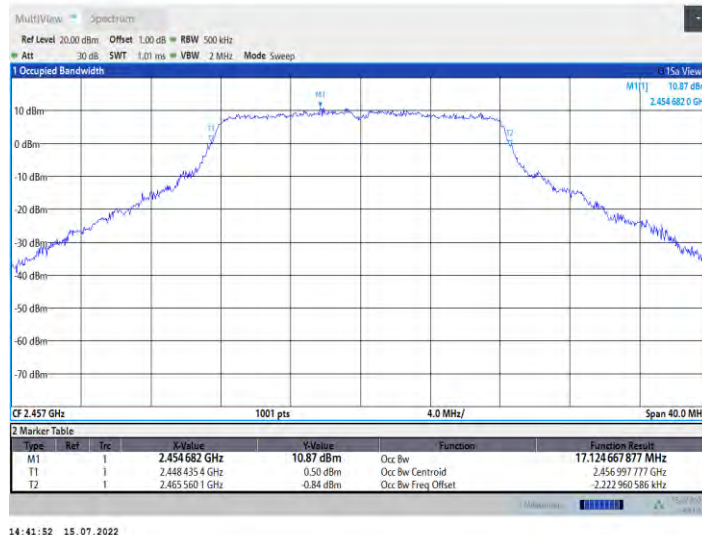
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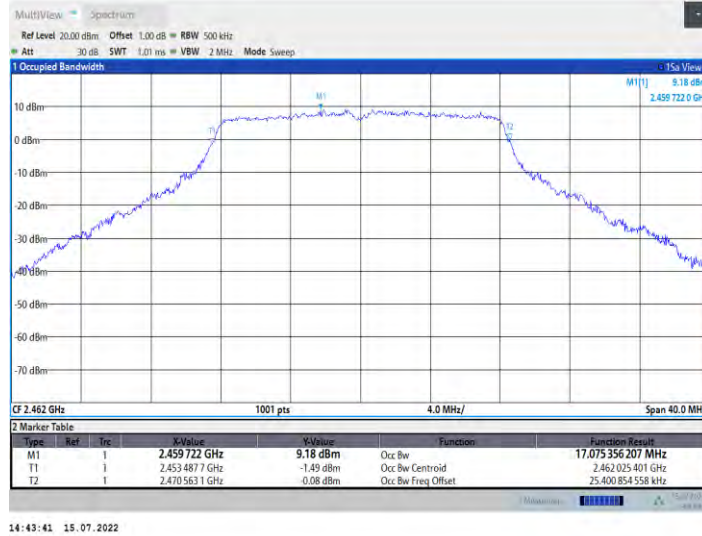
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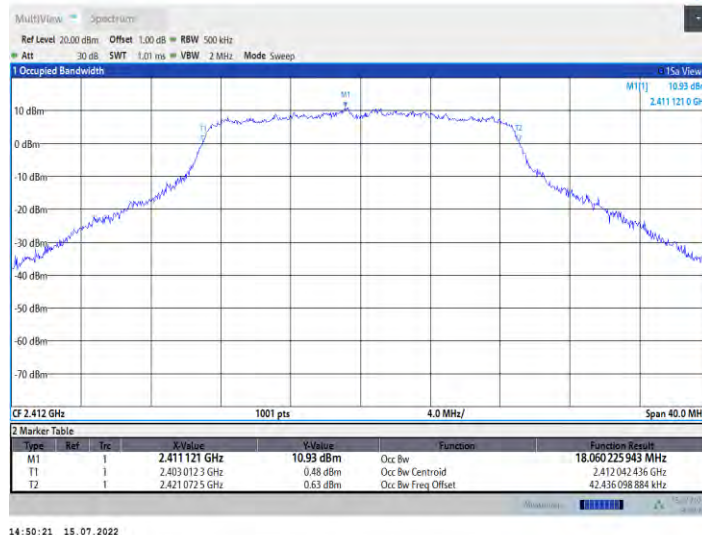
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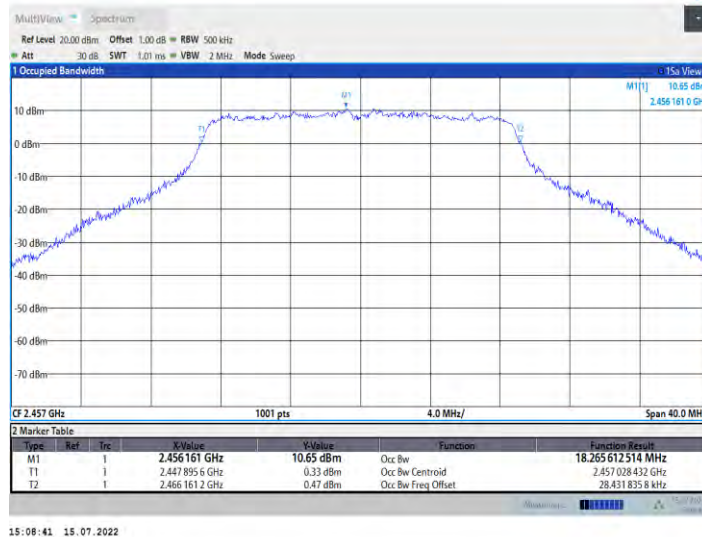
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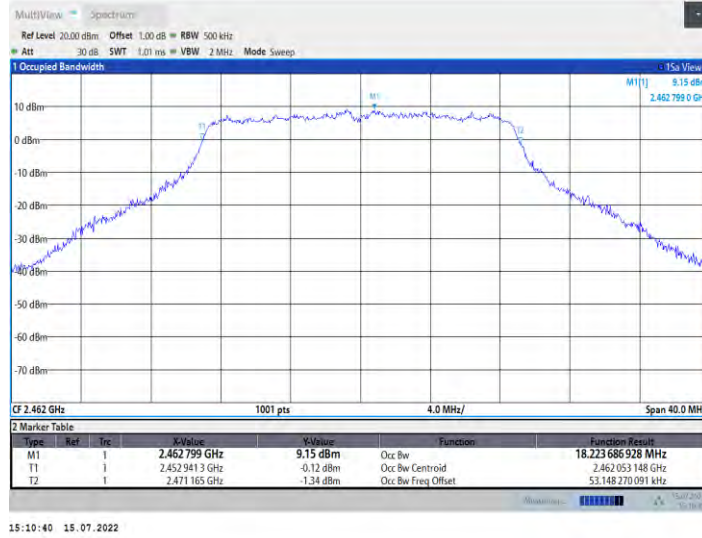


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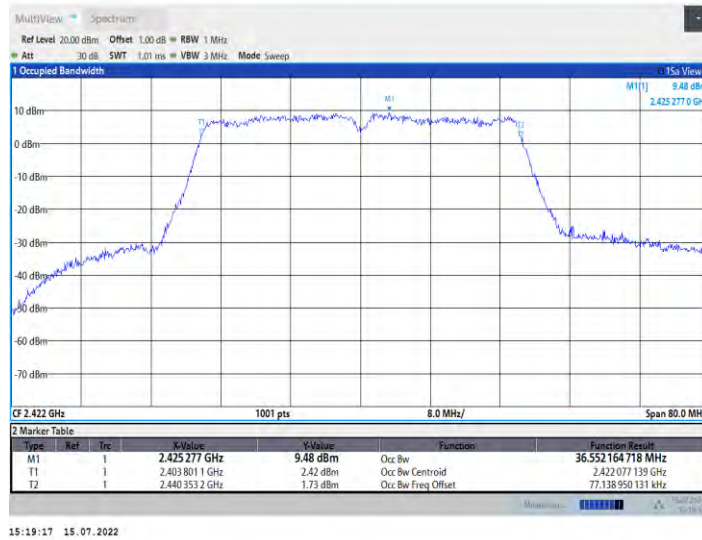
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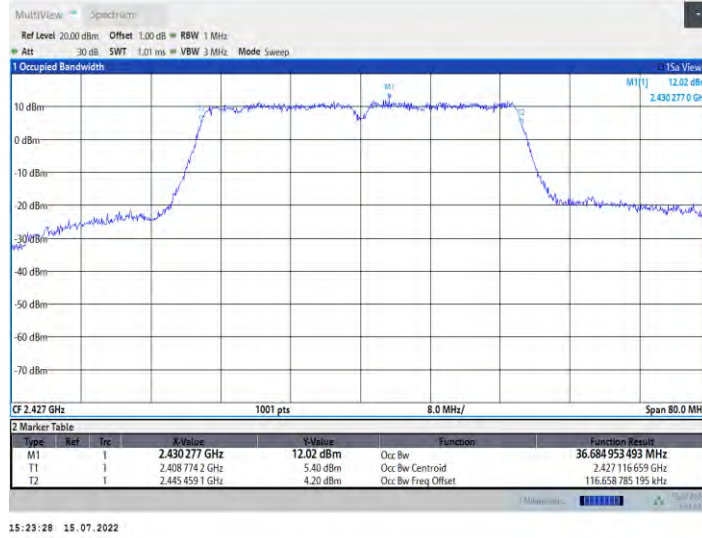
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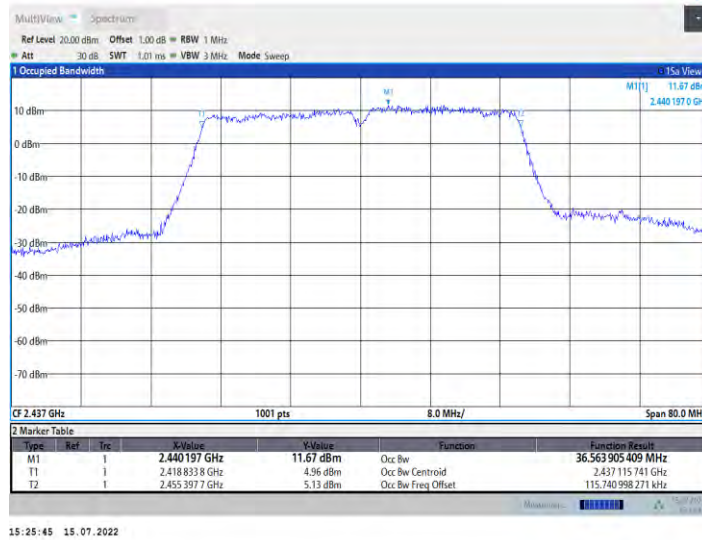
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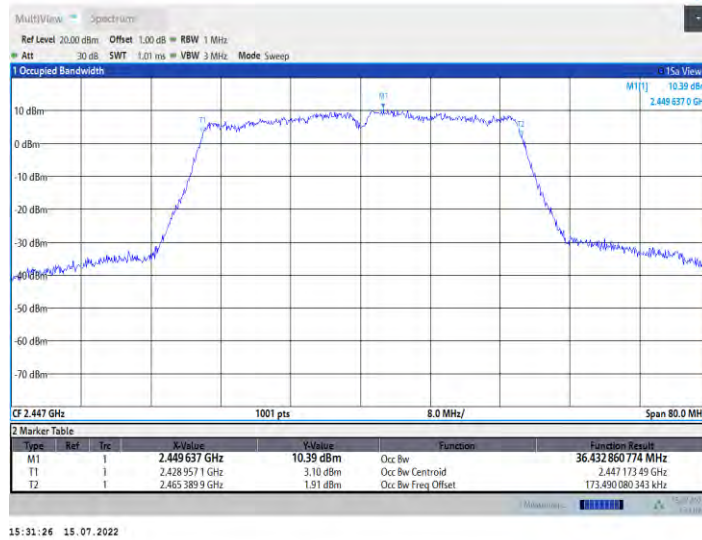
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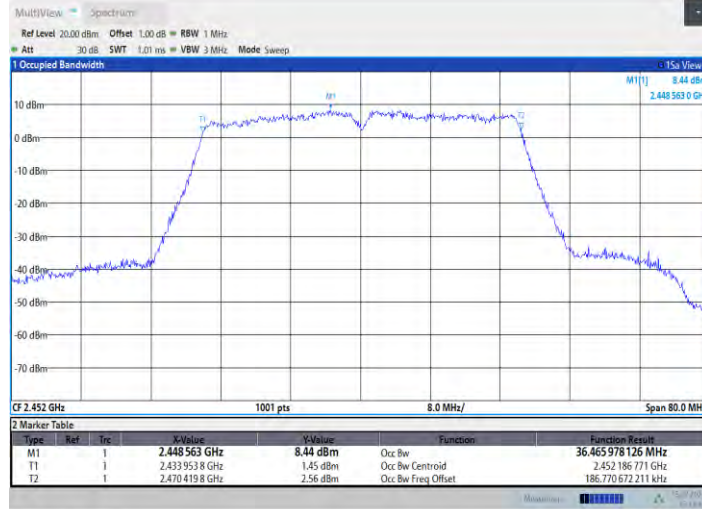
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**Maximum conducted output power  
Test Result Peak**

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant7	2412	20.01	≤30.00	PASS
		2437	19.67	≤30.00	PASS
		2462	19.89	≤30.00	PASS
11G	Ant7	2412	20.82	≤30.00	PASS
		2437	20.35	≤30.00	PASS
		2457	20.58	≤30.00	PASS
		2462	19.74	≤30.00	PASS
11N20SISO	Ant7	2412	20.82	≤30.00	PASS
		2437	20.18	≤30.00	PASS
		2457	20.32	≤30.00	PASS
		2462	19.43	≤30.00	PASS
11N40SISO	Ant7	2422	20.73	≤30.00	PASS
		2427	22.85	≤30.00	PASS
		2437	22.39	≤30.00	PASS
		2442	22.45	≤30.00	PASS
		2447	21.08	≤30.00	PASS
		2452	19.75	≤30.00	PASS



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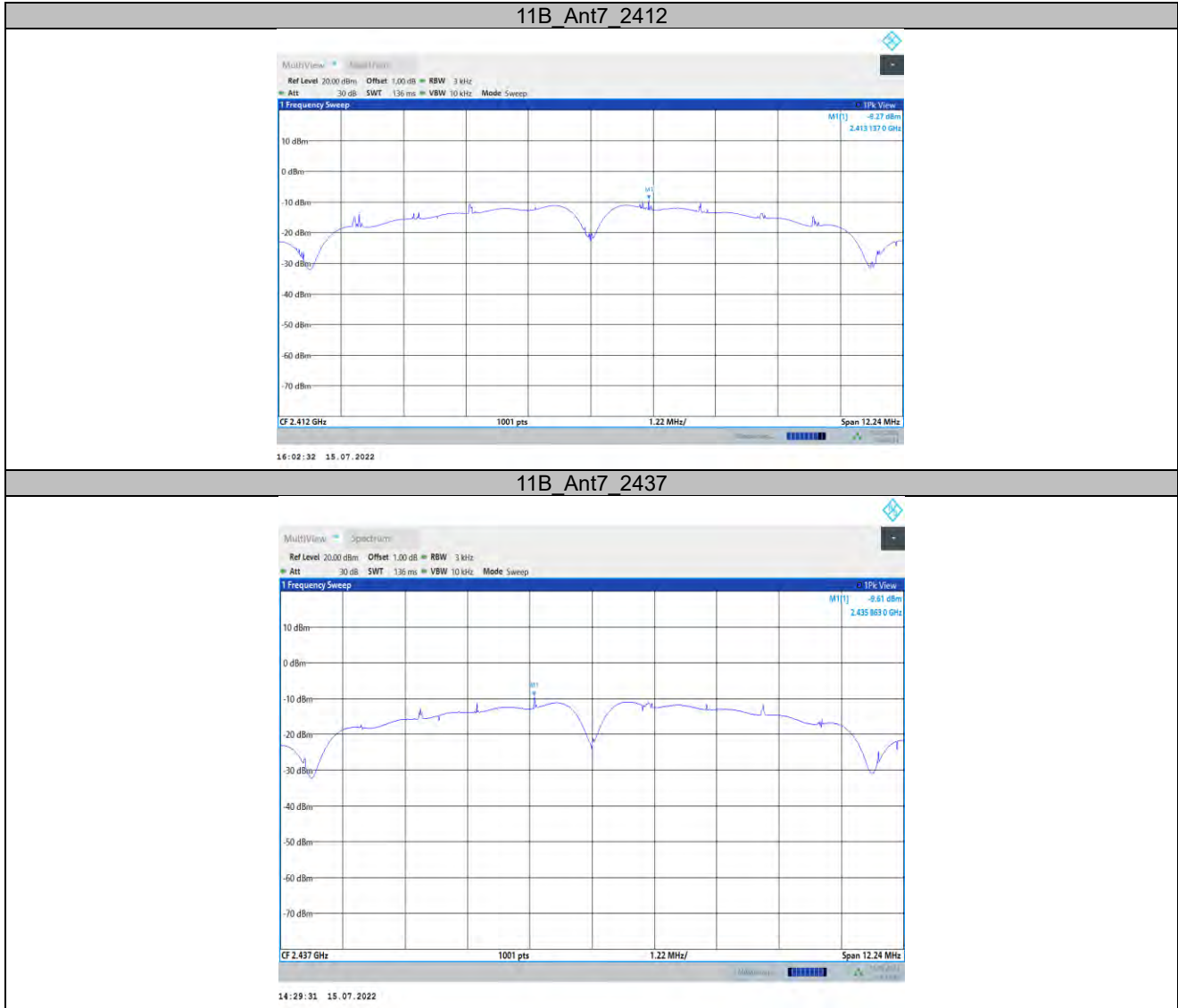
**Maximum power spectral density  
Test Result**

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant7	2412	-9.27	≤8.00	PASS
		2437	-9.61	≤8.00	PASS
		2462	-8.48	≤8.00	PASS
11G	Ant7	2412	-9.37	≤8.00	PASS
		2437	-9.10	≤8.00	PASS
		2457	-9.71	≤8.00	PASS
		2462	-10.74	≤8.00	PASS
11N20SISO	Ant7	2412	-10.03	≤8.00	PASS
		2437	-10.39	≤8.00	PASS
		2457	-9.96	≤8.00	PASS
		2462	-10.86	≤8.00	PASS
11N40SISO	Ant7	2422	-15.07	≤8.00	PASS
		2427	-11.49	≤8.00	PASS
		2437	-12.51	≤8.00	PASS
		2442	-13.16	≤8.00	PASS
		2447	-12.95	≤8.00	PASS
		2452	-14.37	≤8.00	PASS



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Test Graphs

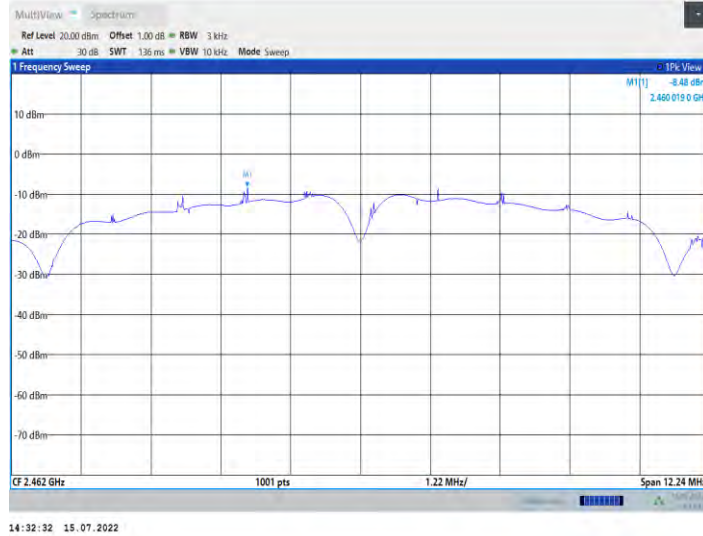


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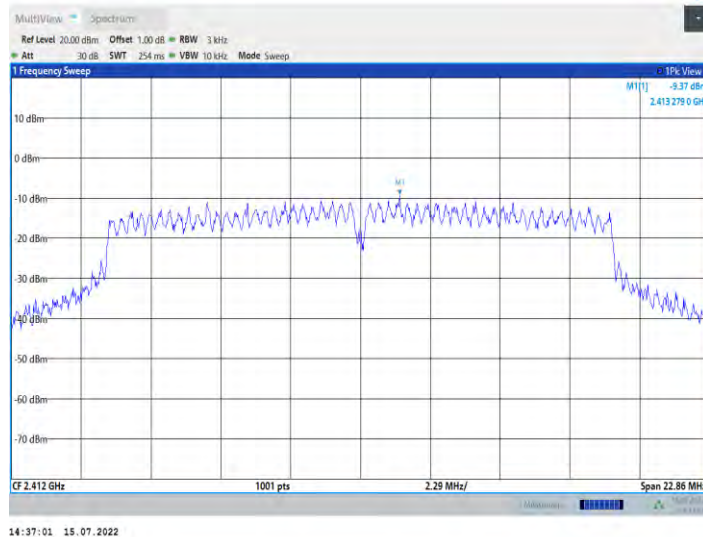
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11B Ant7 2462



11G Ant7 2412

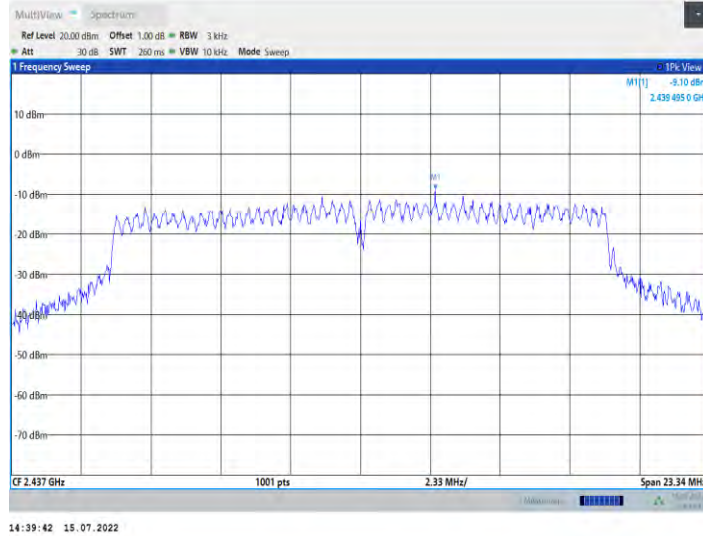


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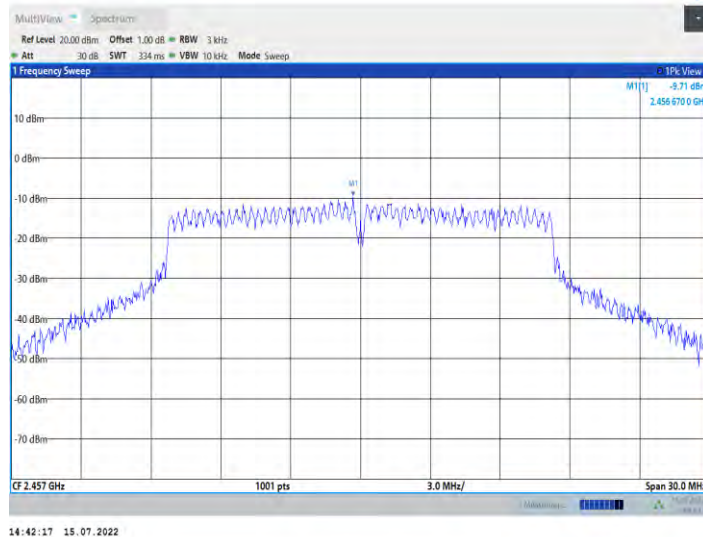
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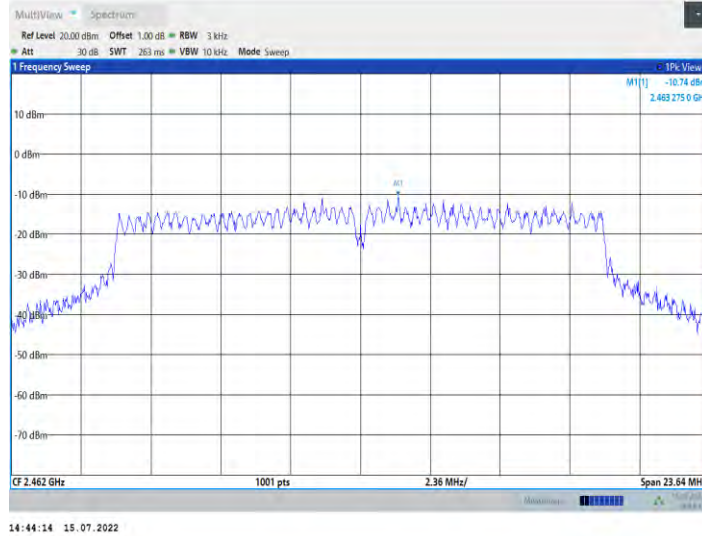
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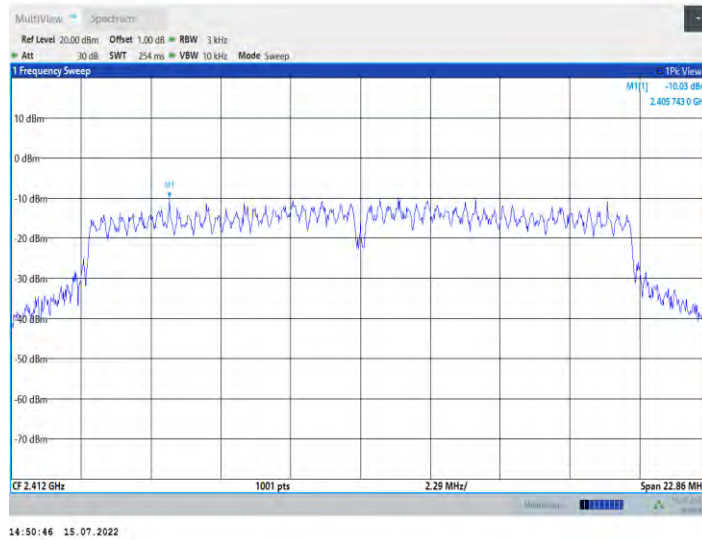
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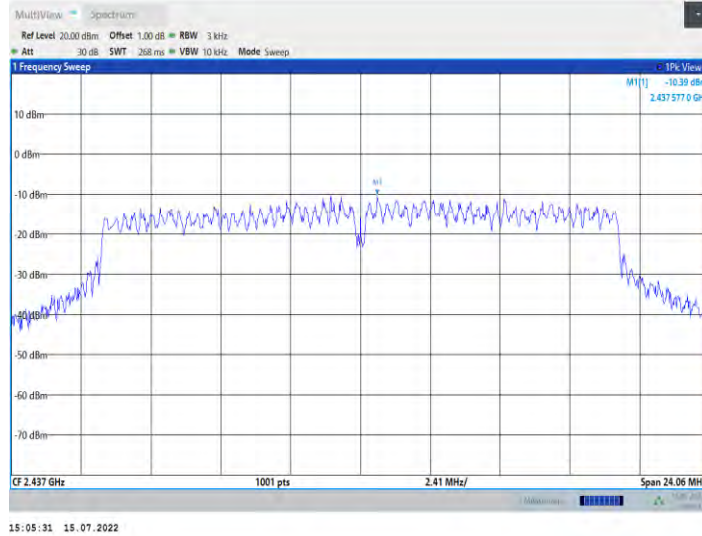


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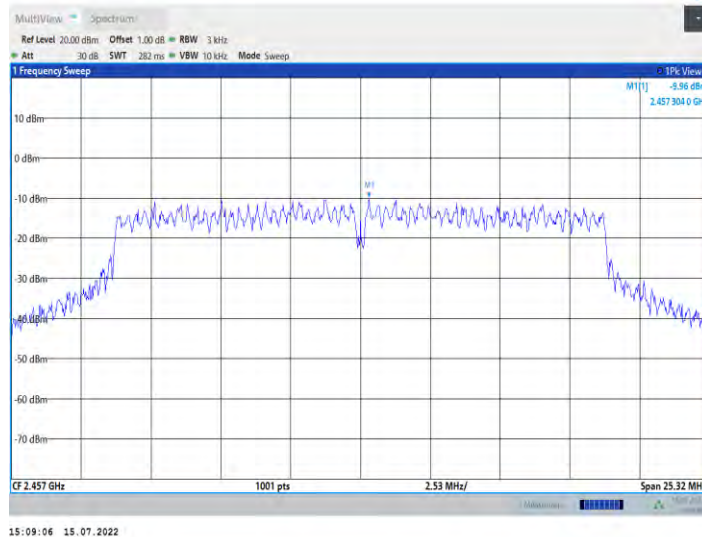
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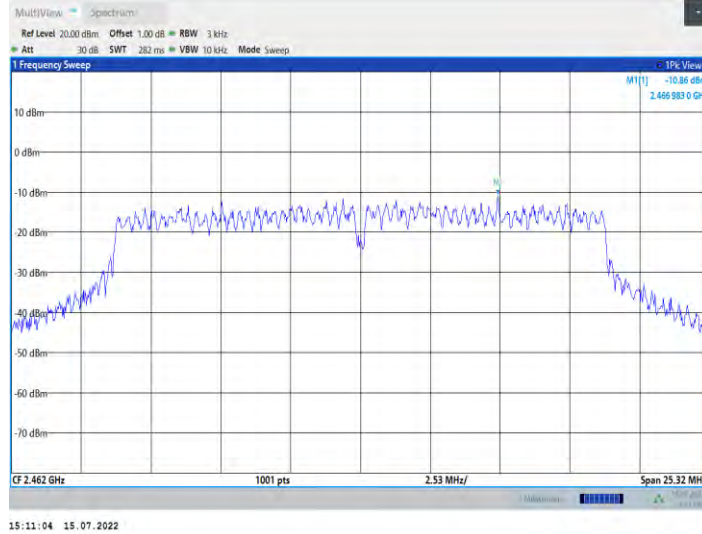


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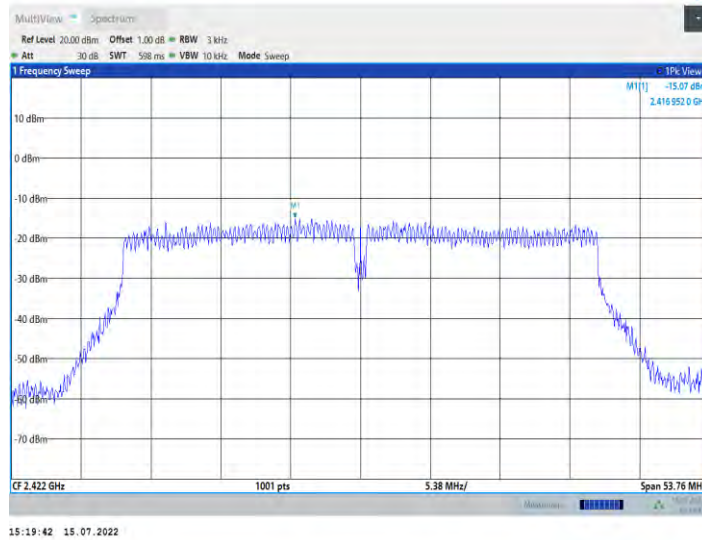
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### 11N20SISO\_Ant7\_2462



### 11N40SISO\_Ant7\_2422

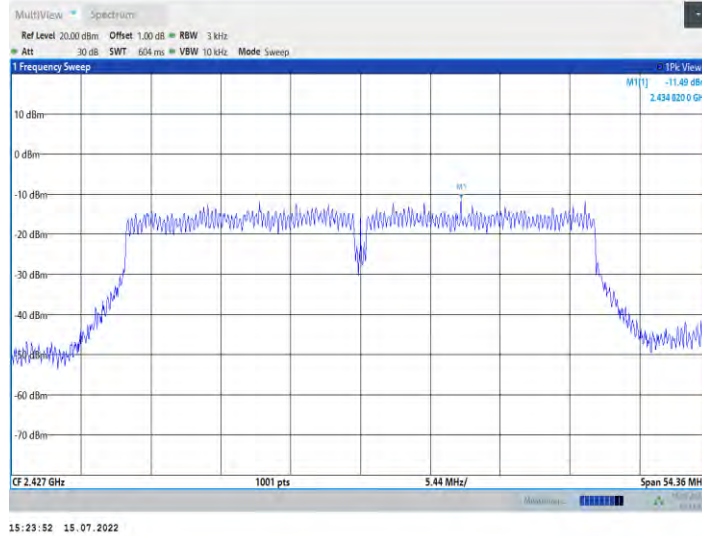


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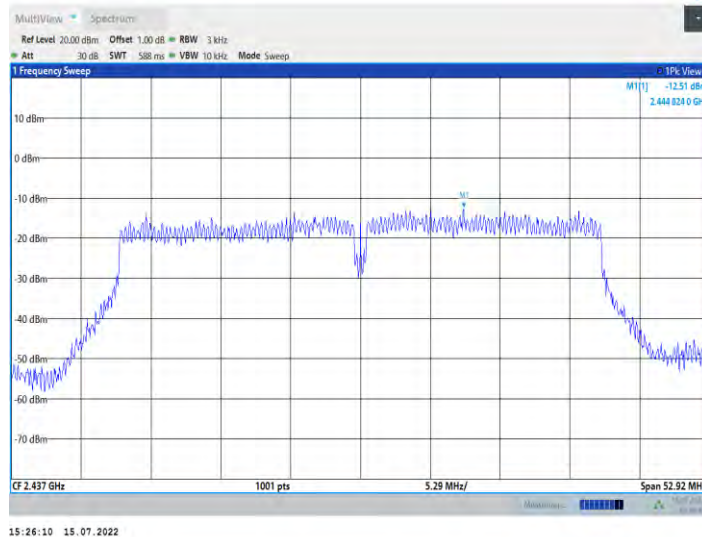
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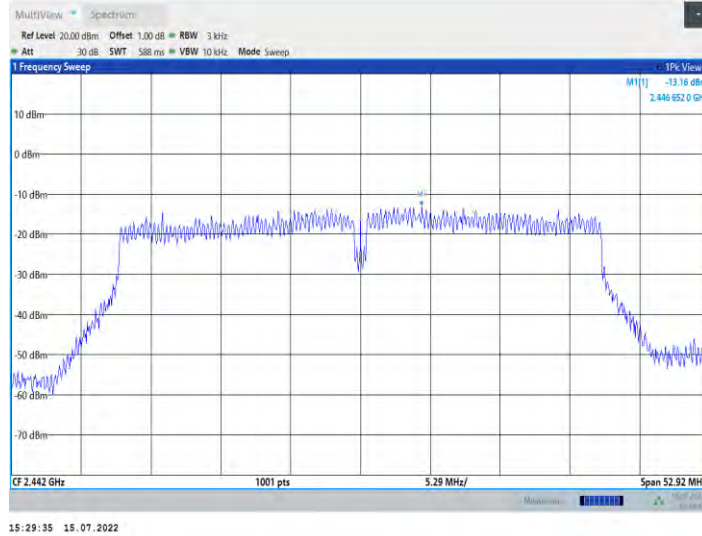


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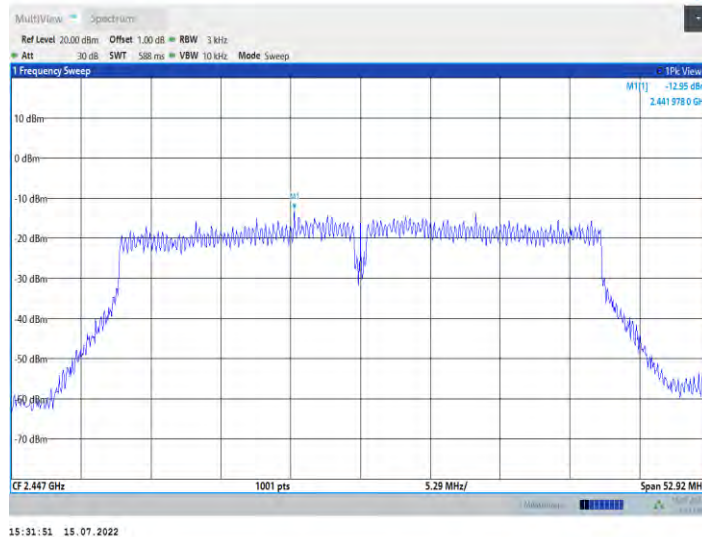
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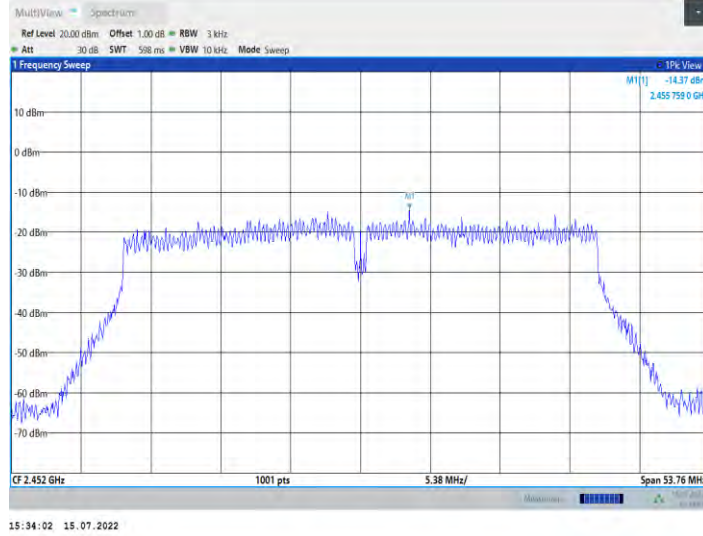


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**Reference level measurement  
Test Result**

TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
11B	Ant7	2412	2412.98	9.08
		2437	2437.98	9.12
		2462	2462.98	9.88
11G	Ant7	2412	2413.23	7.01
		2437	2438.24	6.83
		2457	2455.71	7.60
		2462	2460.73	5.28
11N20SISO	Ant7	2412	2413.26	6.97
		2437	2438.23	6.57
		2457	2455.71	7.01
		2462	2463.24	5.31
11N40SISO	Ant7	2422	2417.01	1.88
		2427	2430.75	3.96
		2437	2440.75	4.00
		2442	2447.02	4.16
		2447	2450.75	2.43
		2452	2447.01	0.55

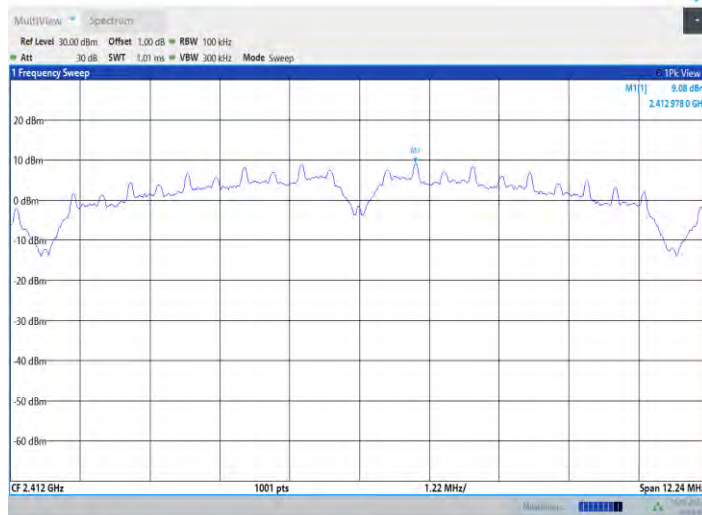


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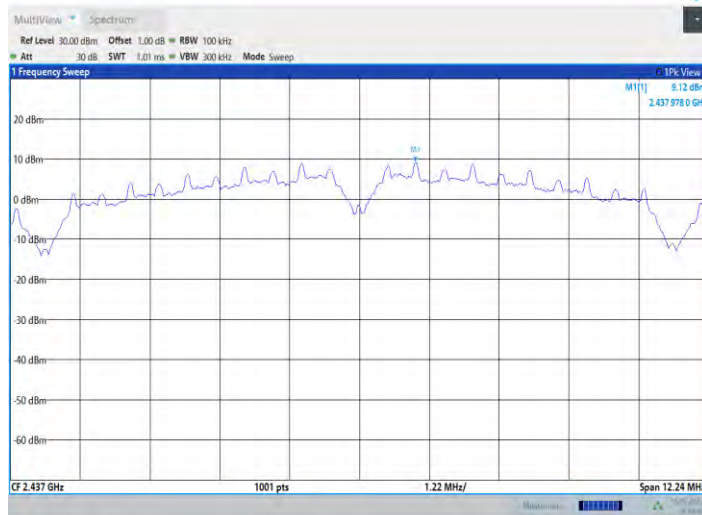
Test Graphs

11B Ant7 2412



16:02:39 15.07.2022

11B Ant7 2437



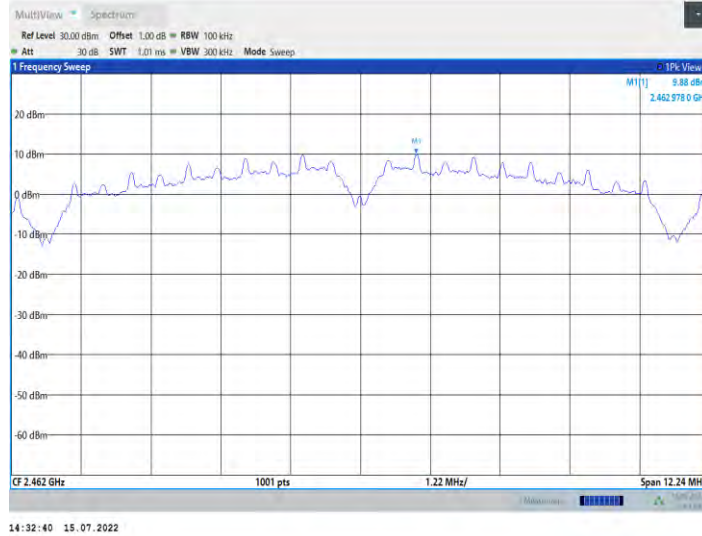
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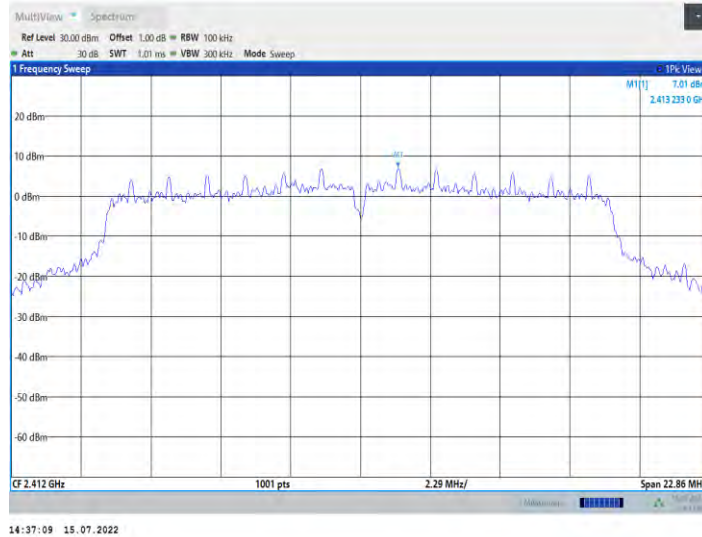
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11B Ant7 2462



11G Ant7 2412

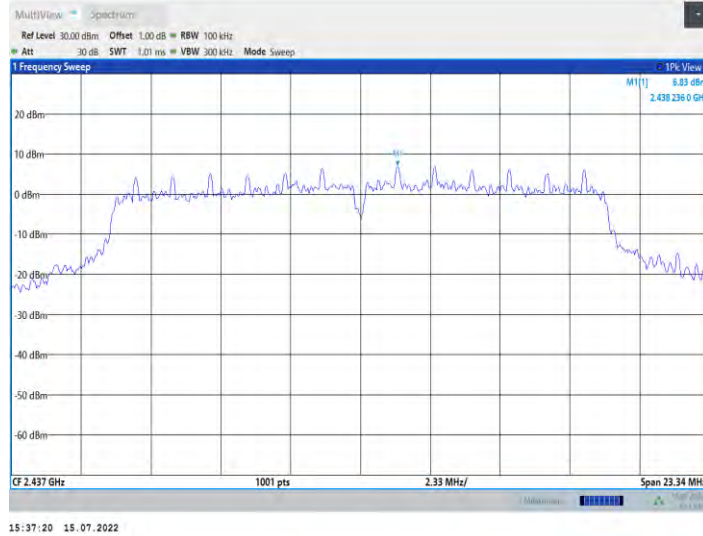


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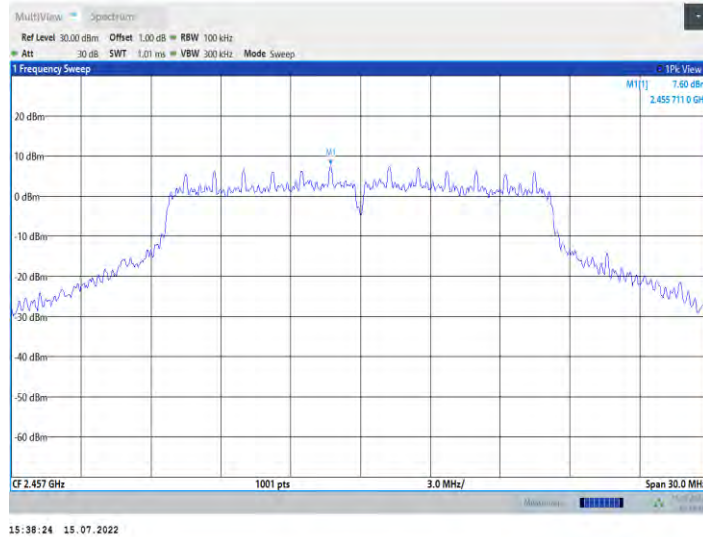
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11G Ant7 2437



11G Ant7 2457

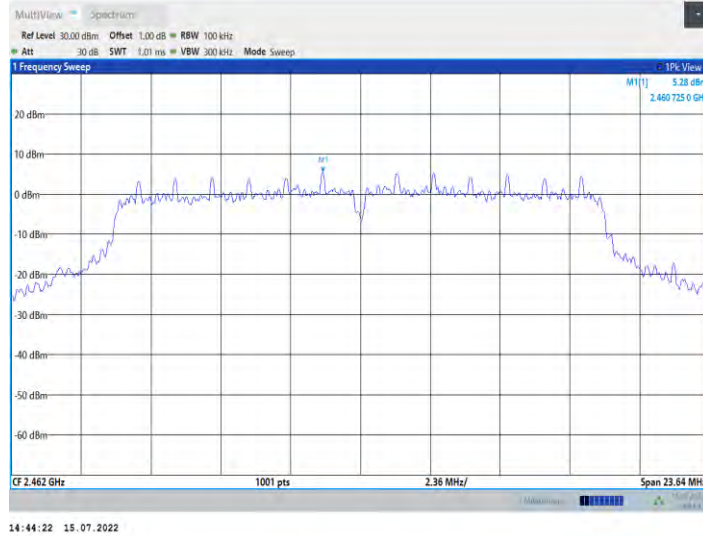


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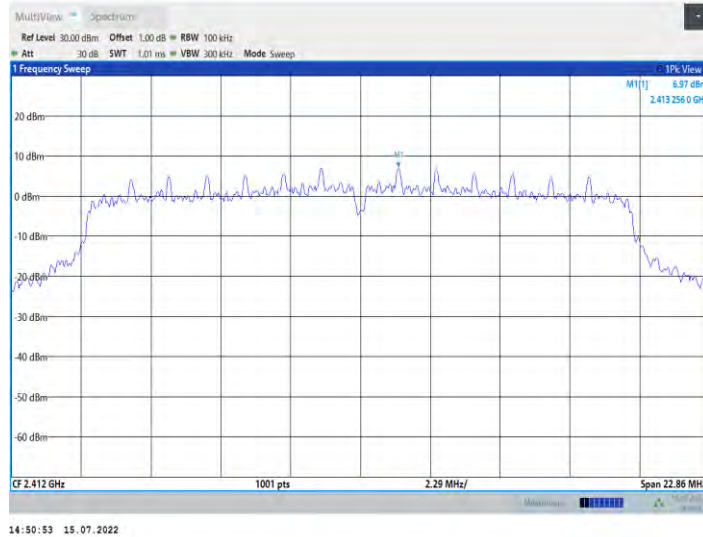
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11G\_Ant7\_2462



11N20SISO\_Ant7\_2412

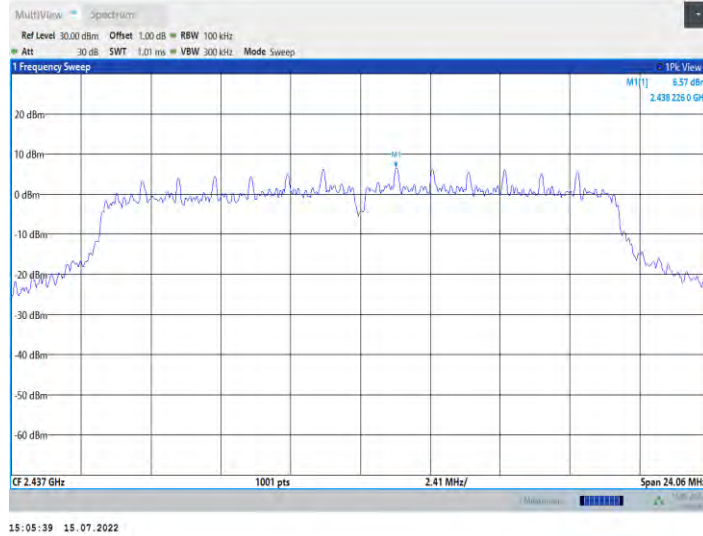


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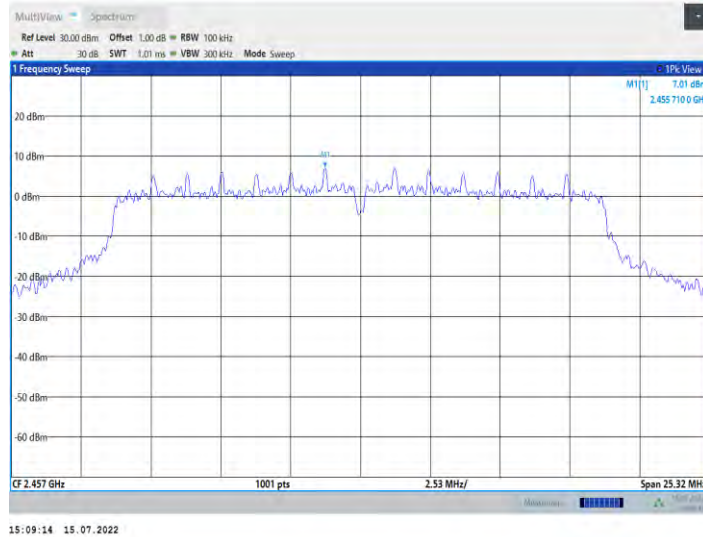
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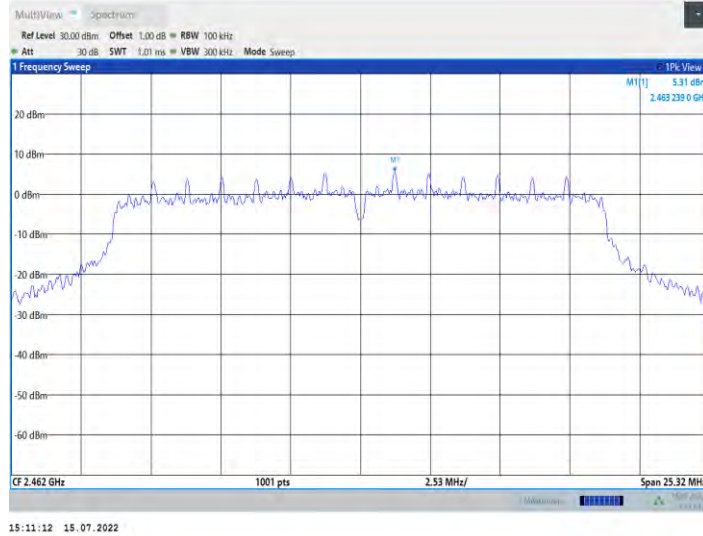


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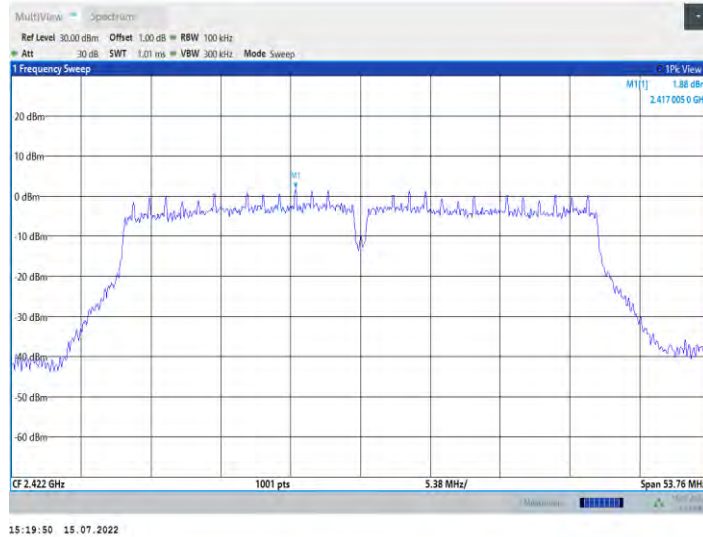
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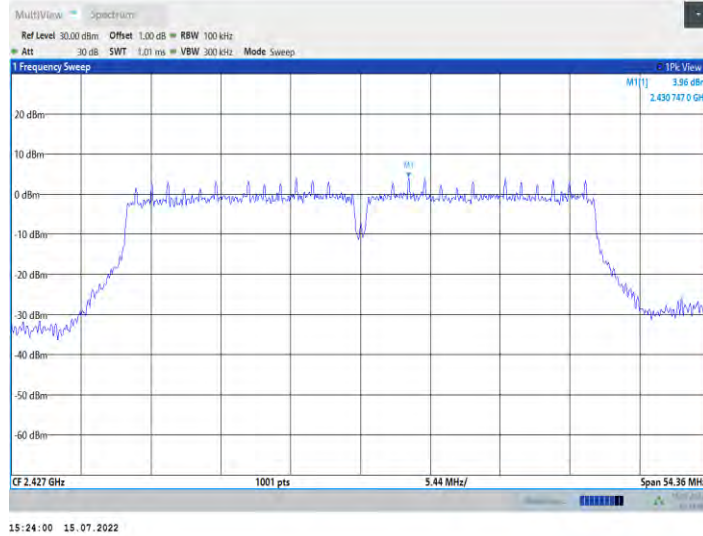


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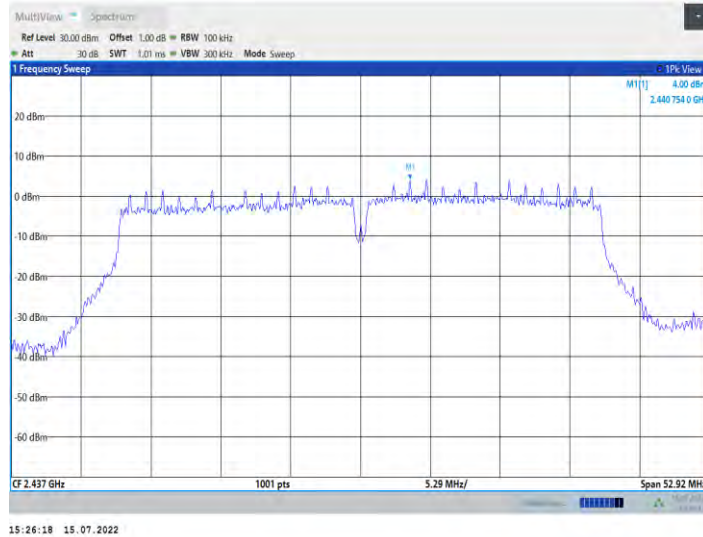
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11N40SISO\_Ant7\_2427



11N40SISO\_Ant7\_2437

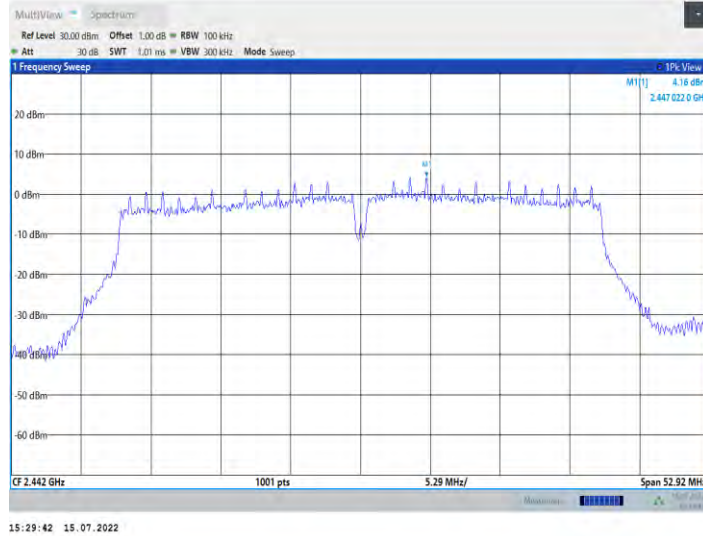


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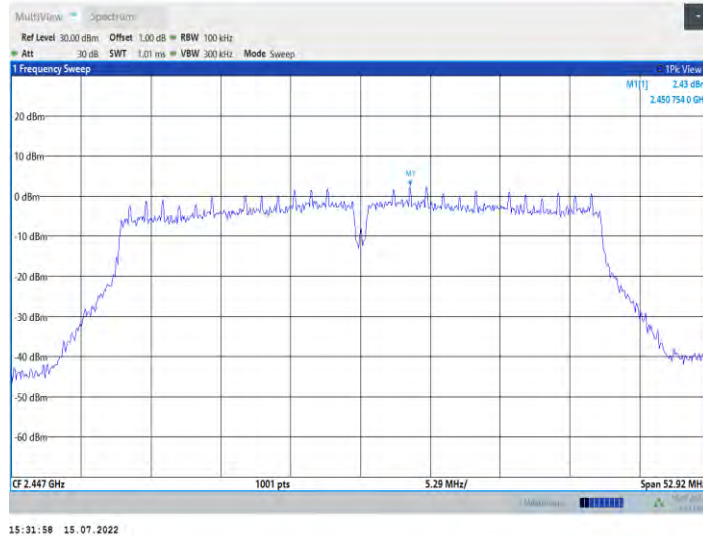
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11N40SISO\_Ant7\_2442



11N40SISO\_Ant7\_2447

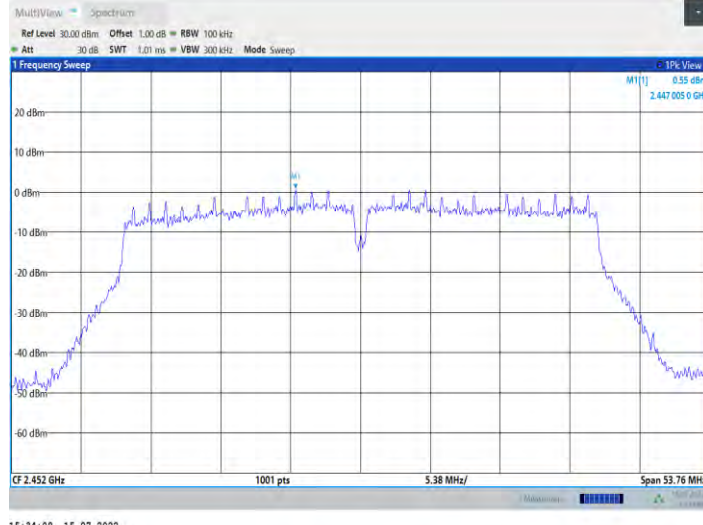


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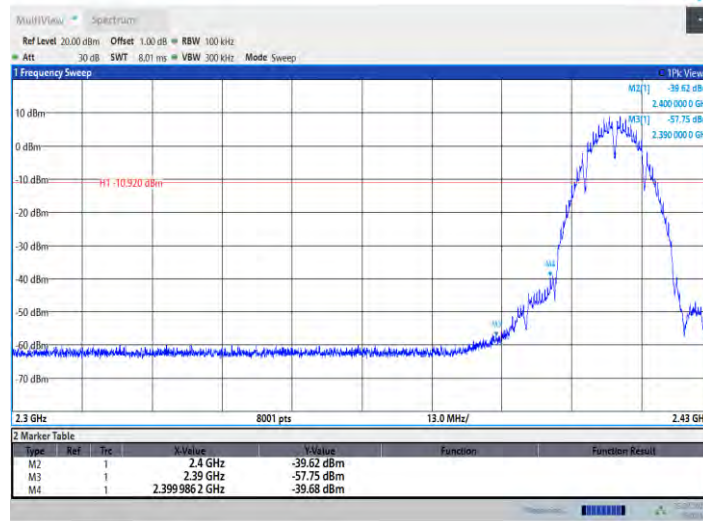
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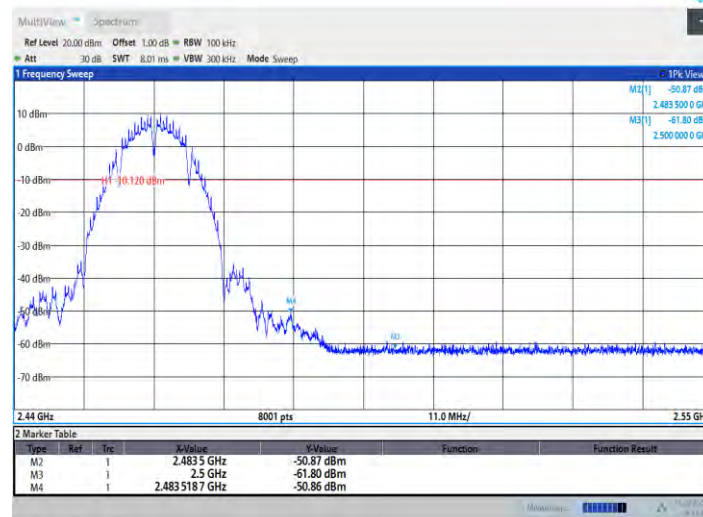
## Band edge measurements Test Graphs

11B Ant7 Low 2412



16:02:52 15.07.2022

11B Ant7 High 2462



14:32:53 15.07.2022



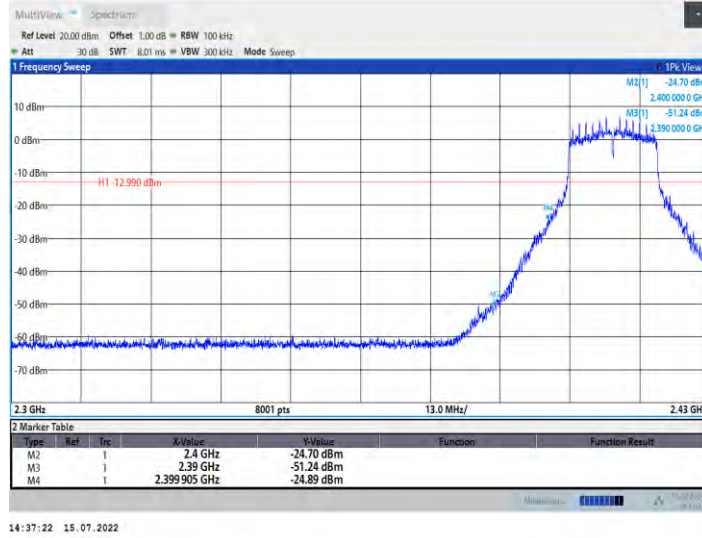
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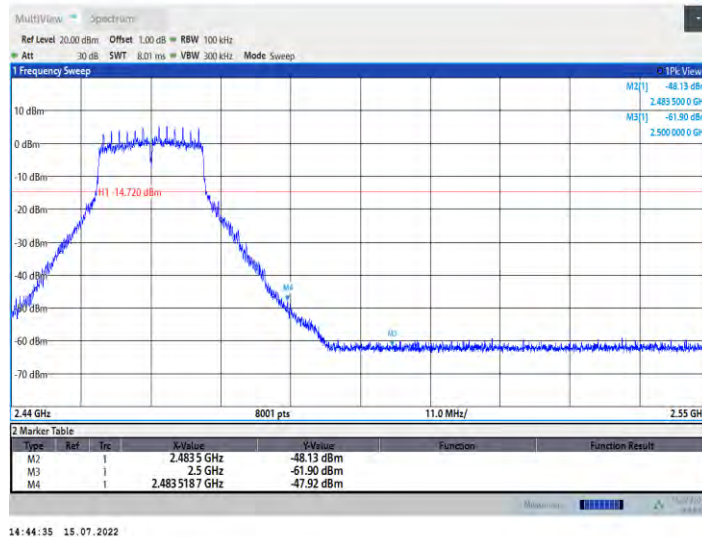
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11G Ant7 Low 2412



11G Ant7 High 2462



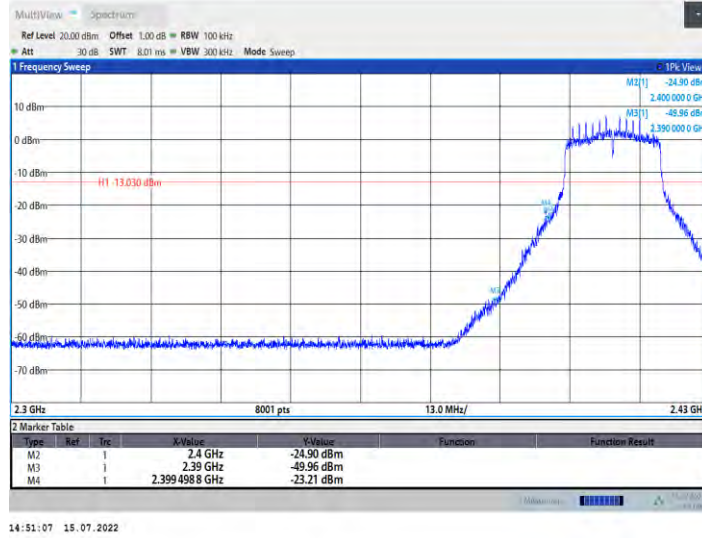
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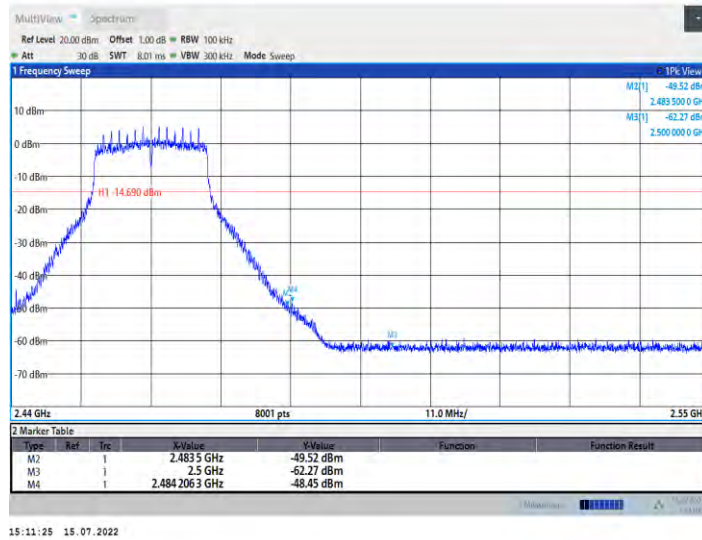
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11N20SISO\_Ant7\_Low\_2412



11N20SISO\_Ant7\_High\_2462



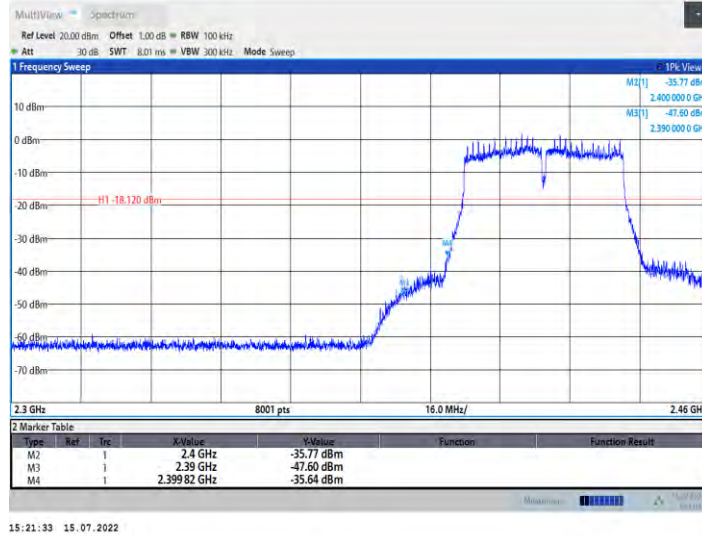
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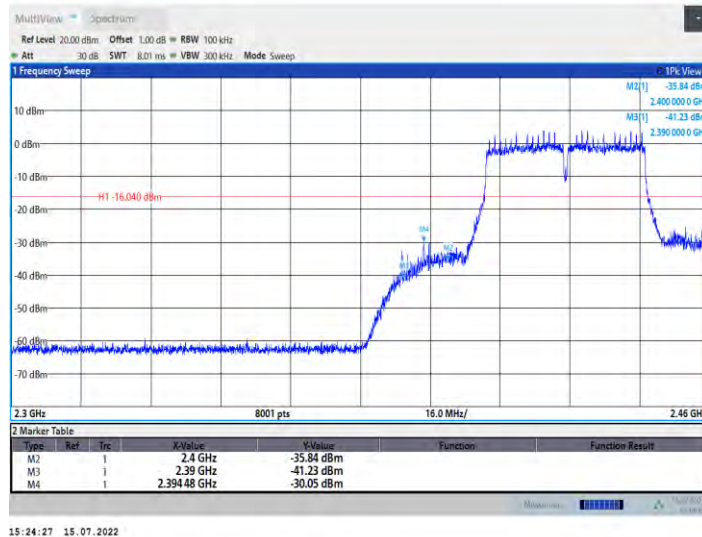
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11N40SISO Ant7 Low 2422



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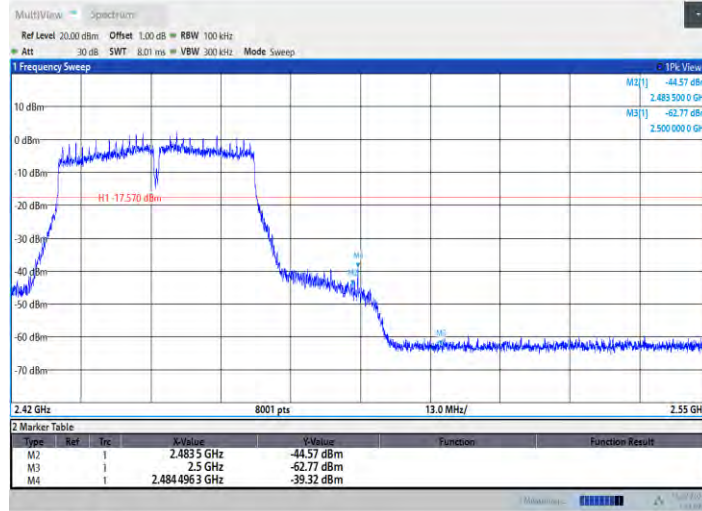
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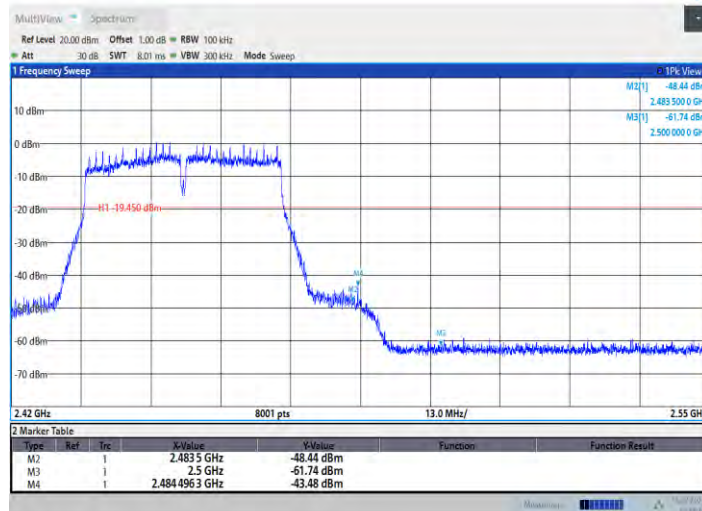
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11N40SISO\_Ant7\_High\_2447



15:32:21 15. 07. 2022

11N40SISO\_Ant7\_High\_2452



15:34:27 15. 07. 2022



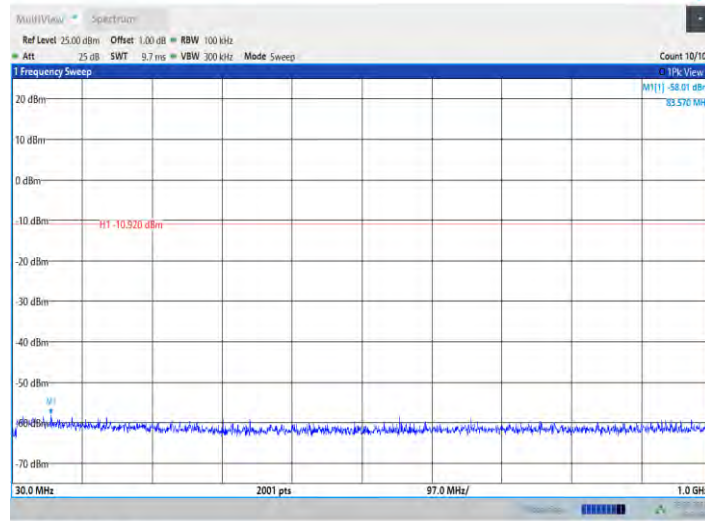
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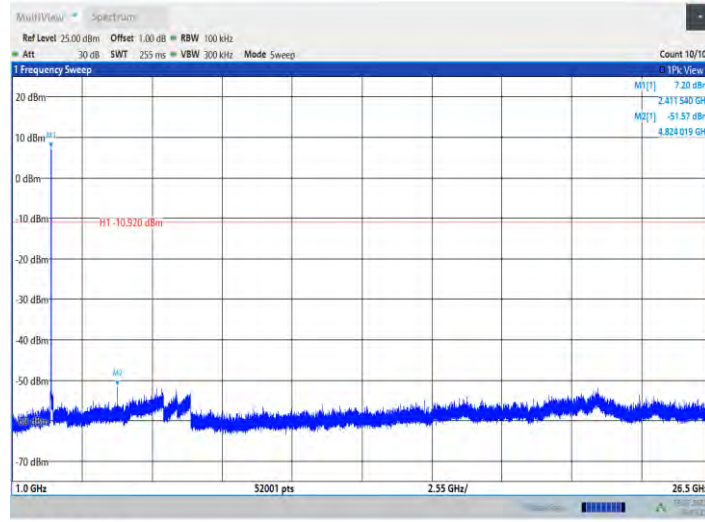
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11B\_Ant7\_2412\_30~1000



16:03:01 15.07.2022

11B\_Ant7\_2412\_1000~26500

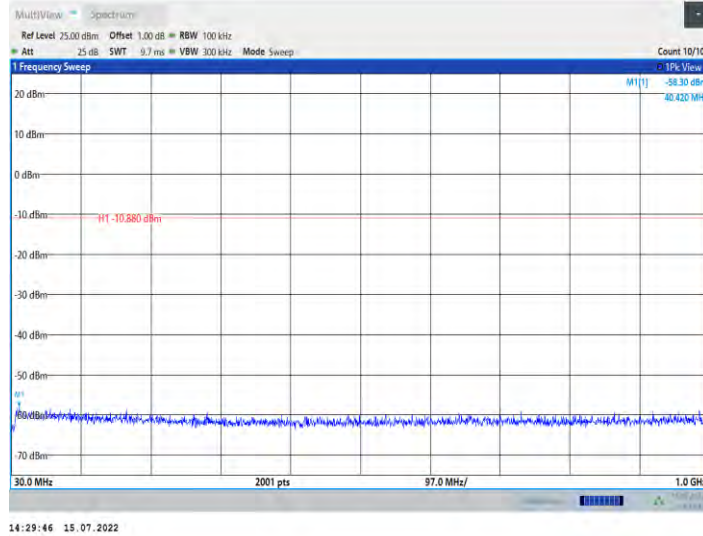


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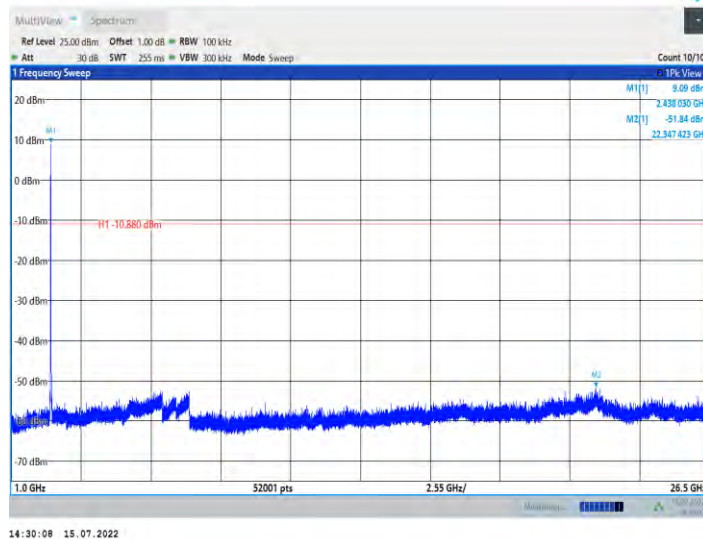


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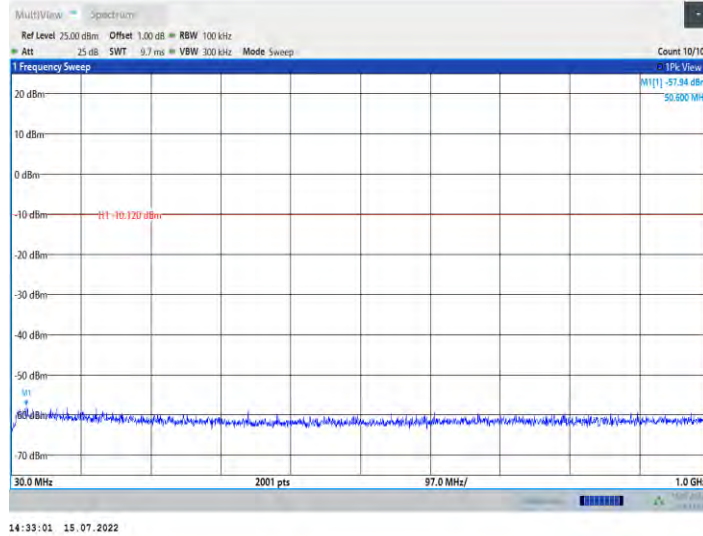
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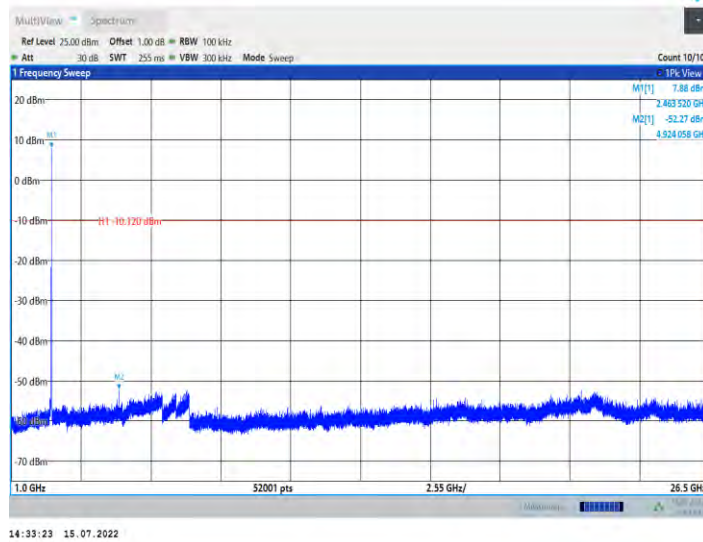
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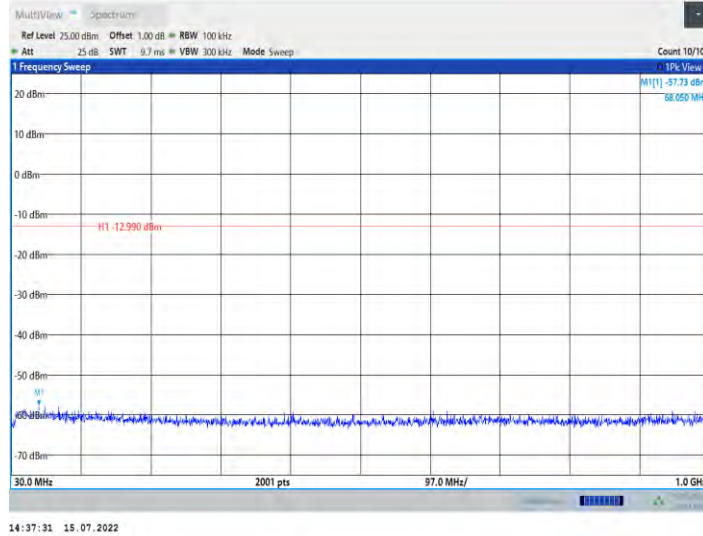
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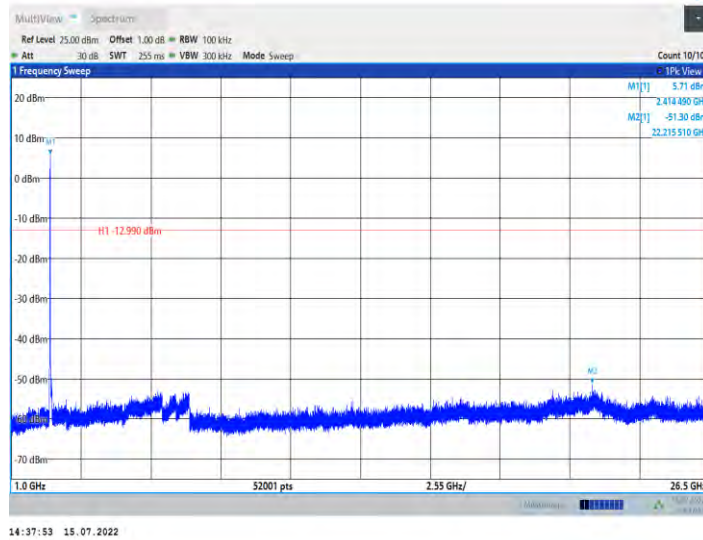
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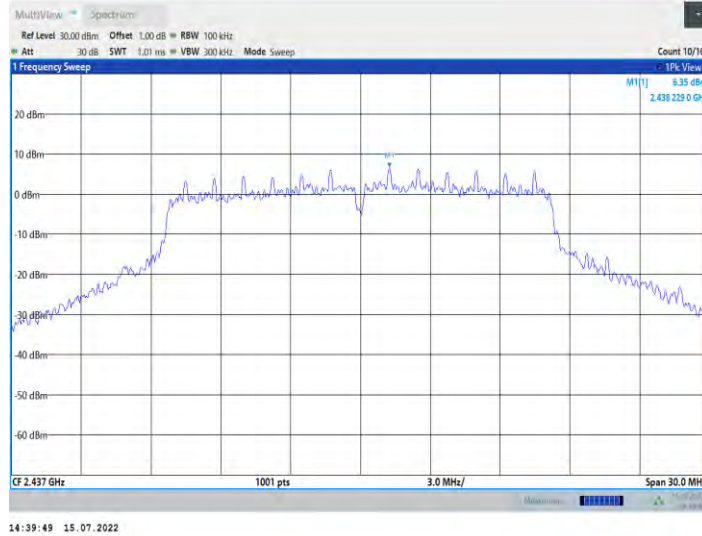
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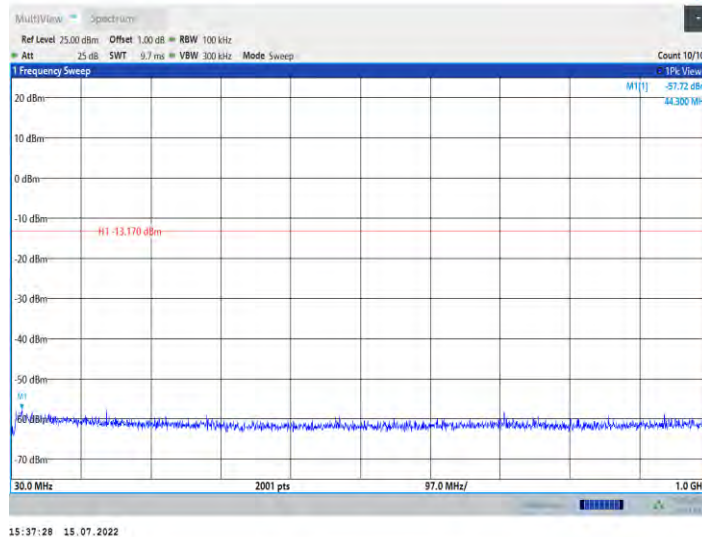
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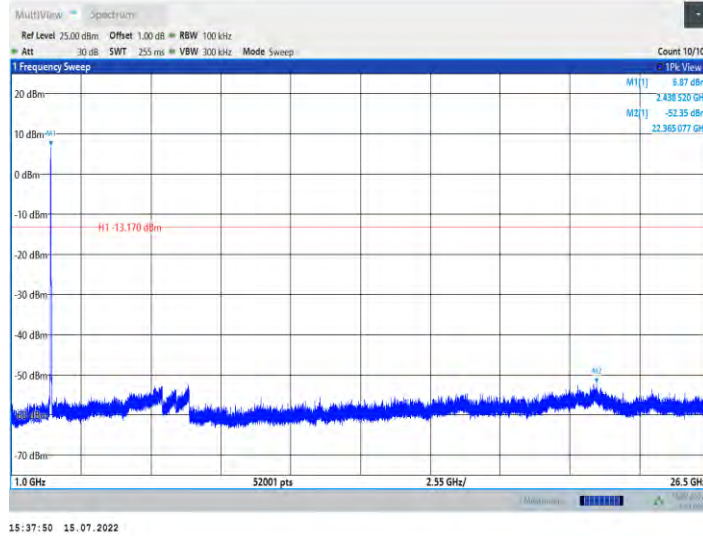


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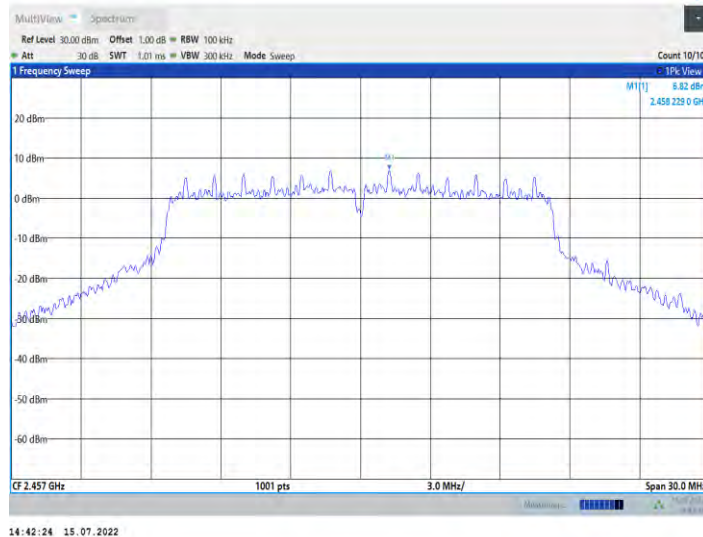
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11G Ant7 2437 1000~26500



11G Ant7 2457 0~Reference

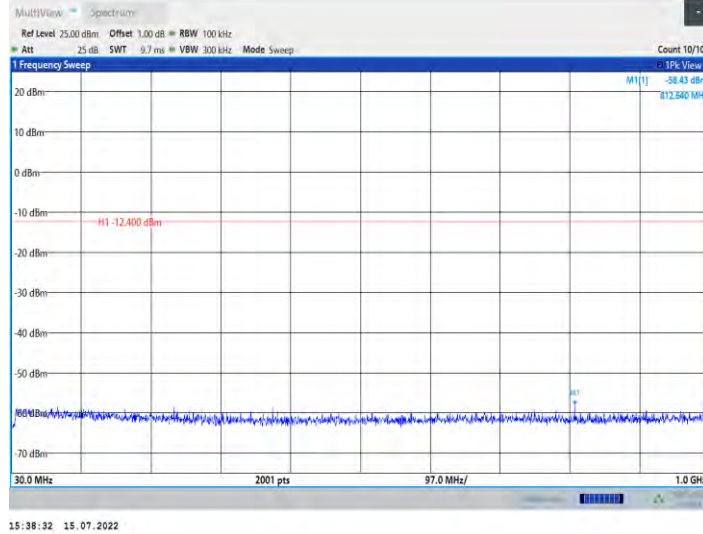


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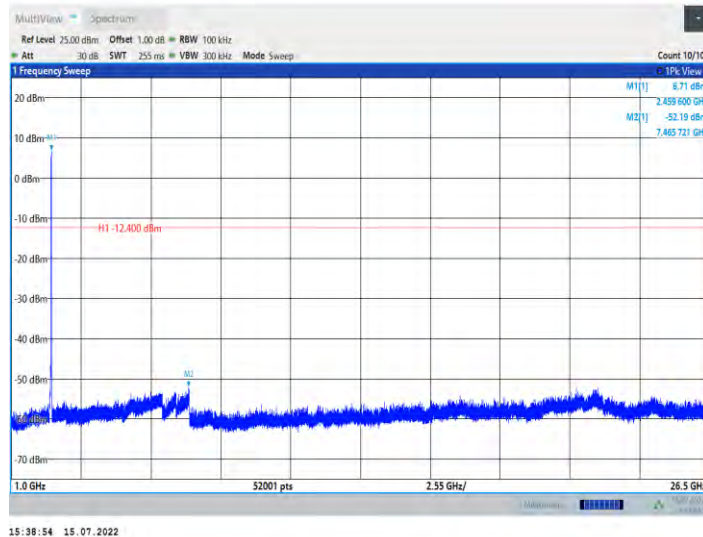
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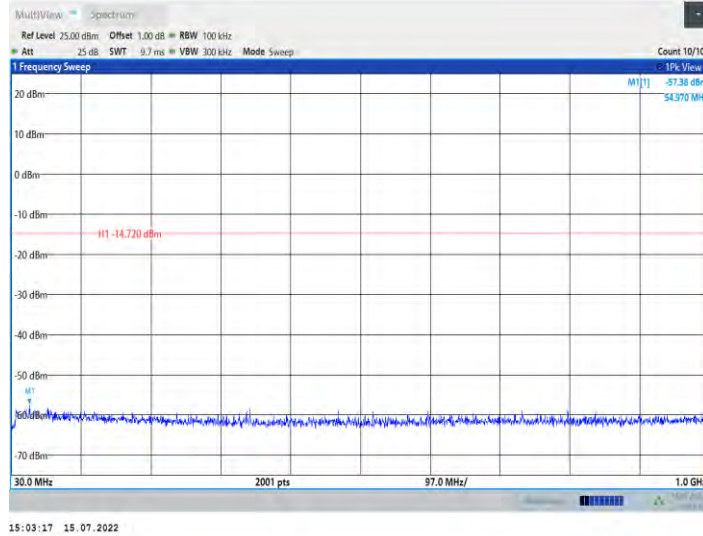


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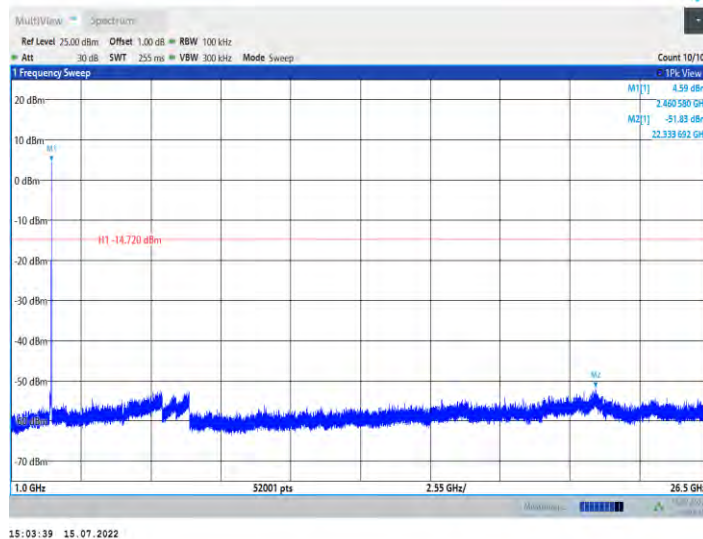
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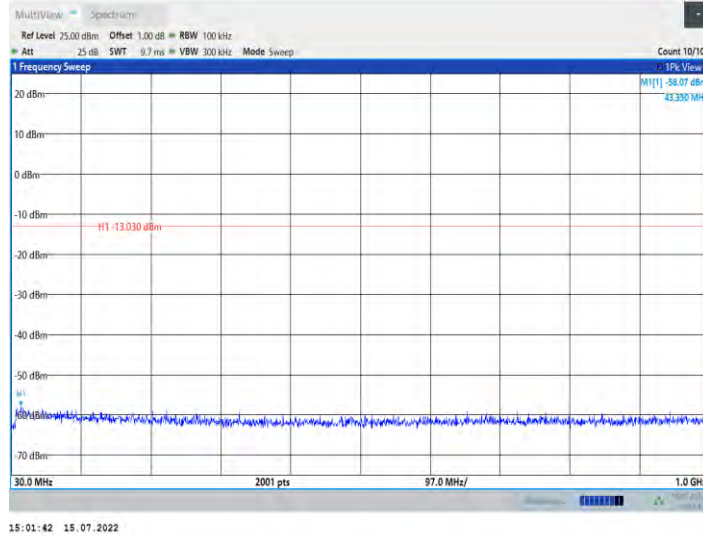


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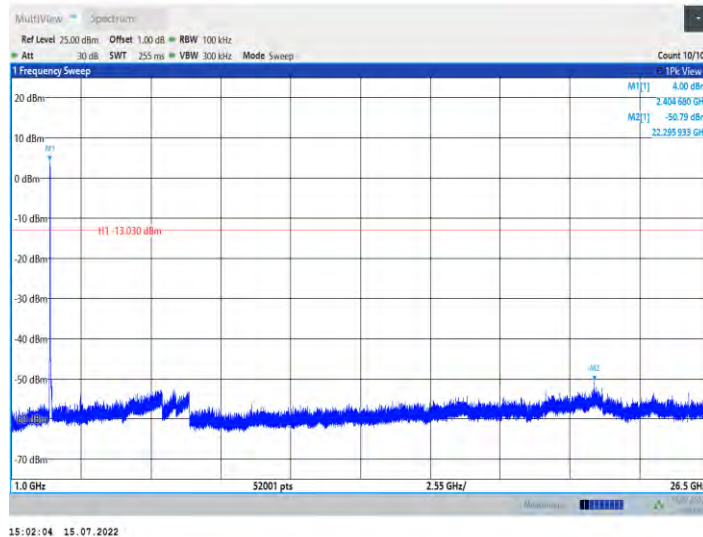
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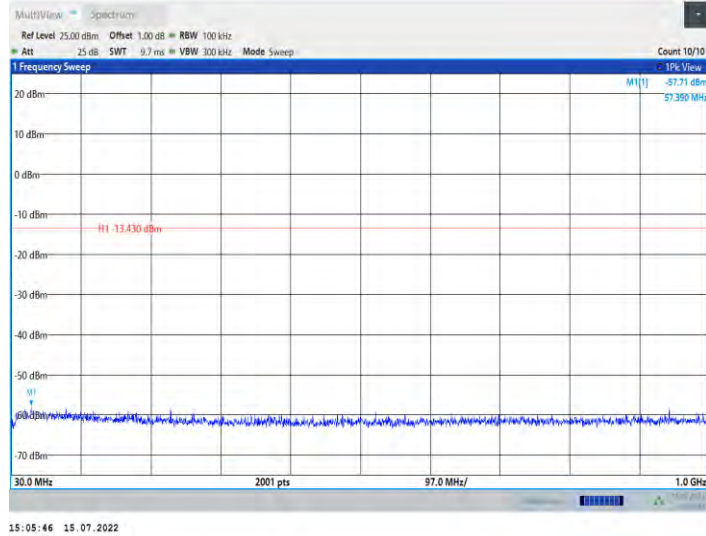


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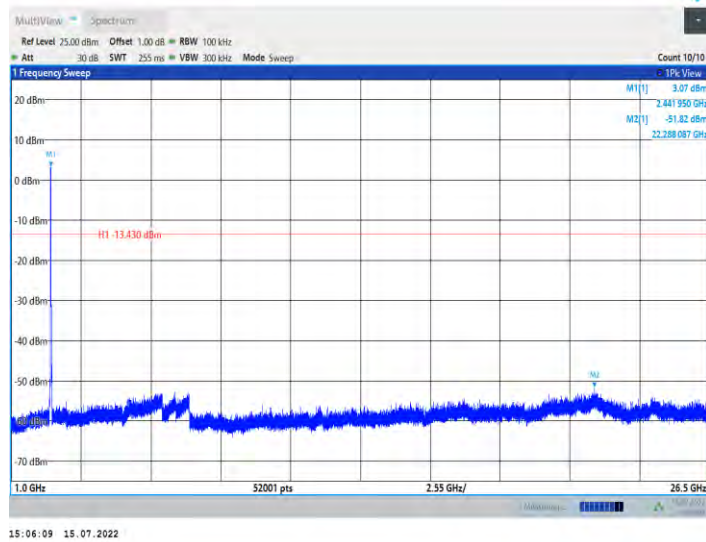
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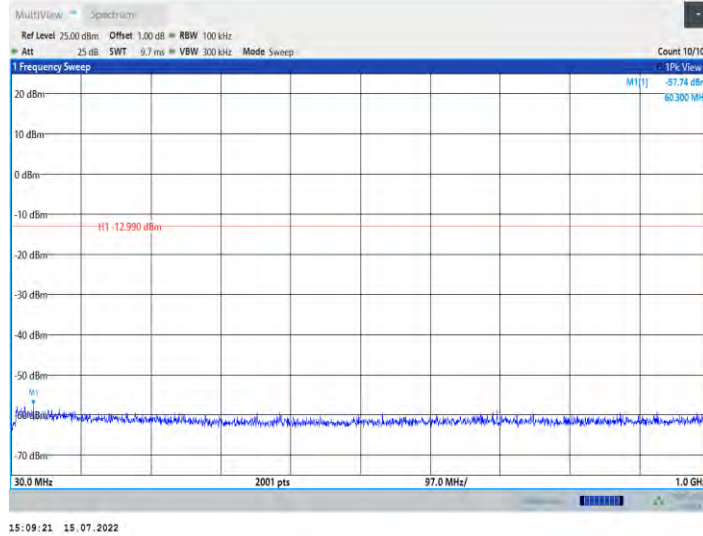
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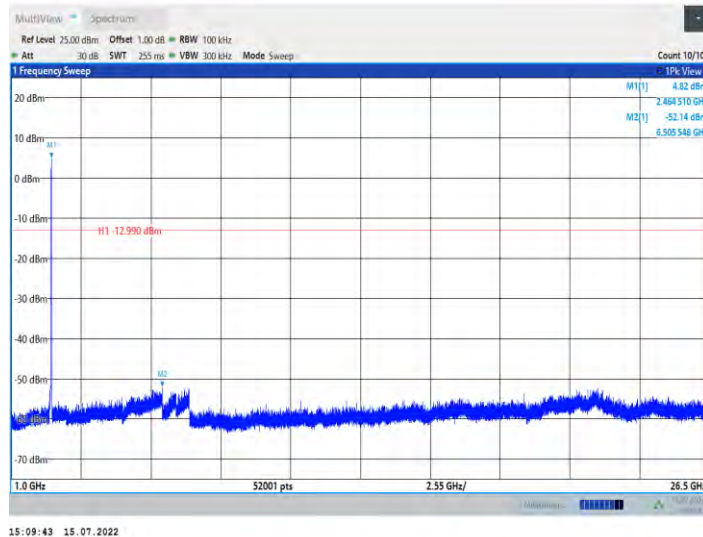
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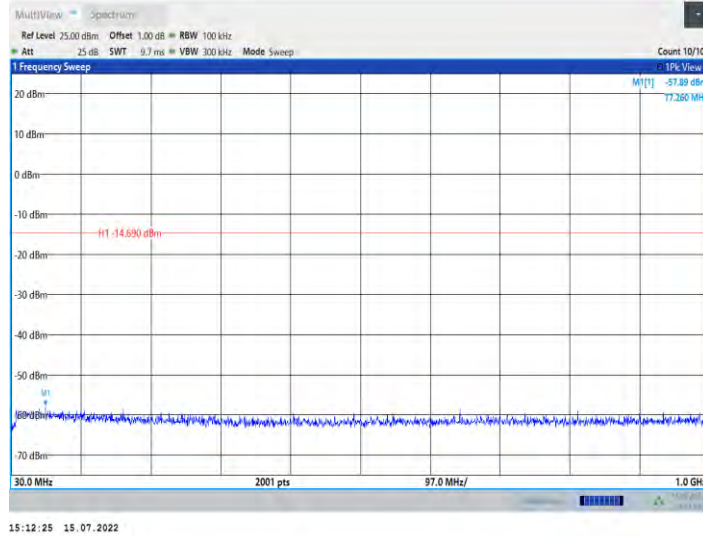
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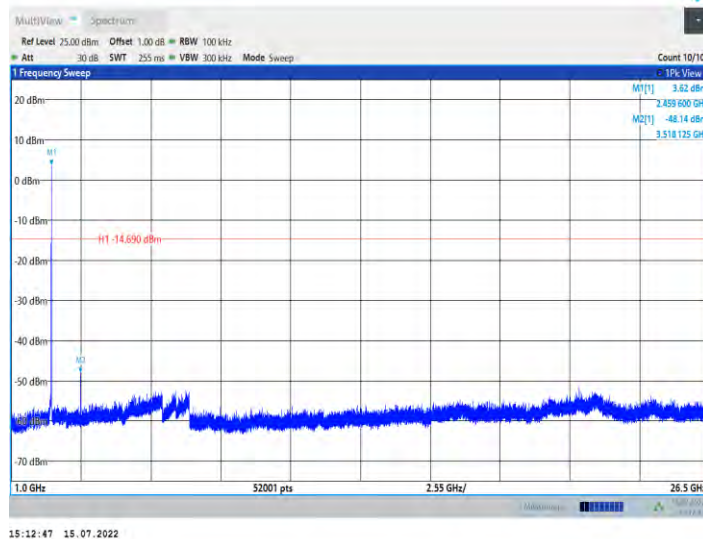
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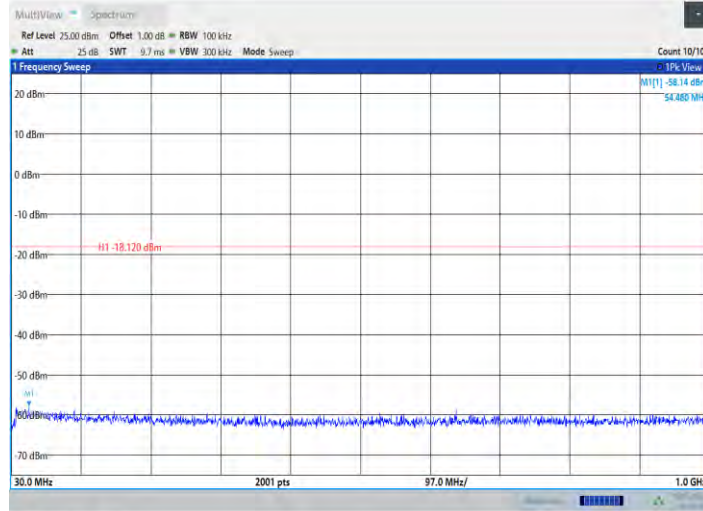


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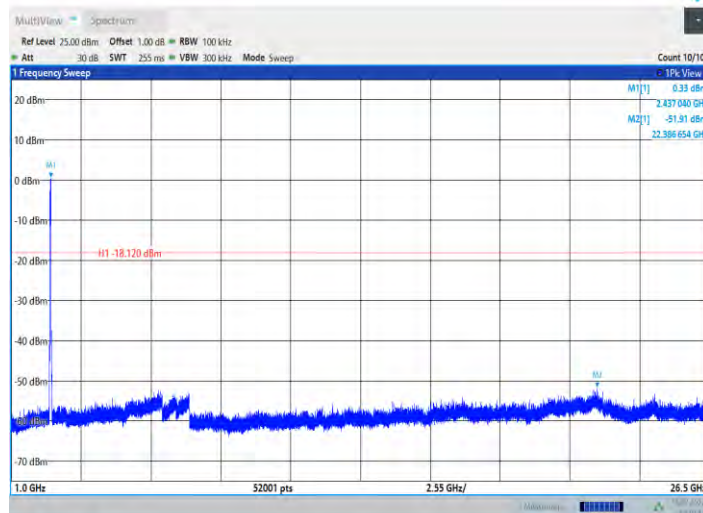
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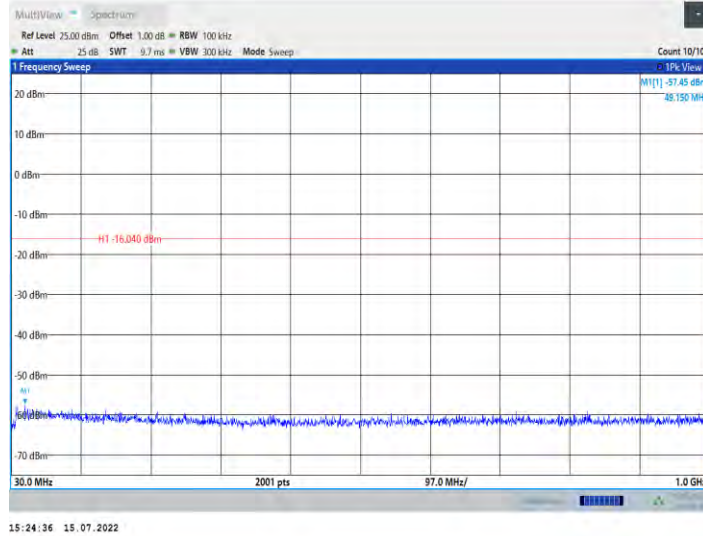


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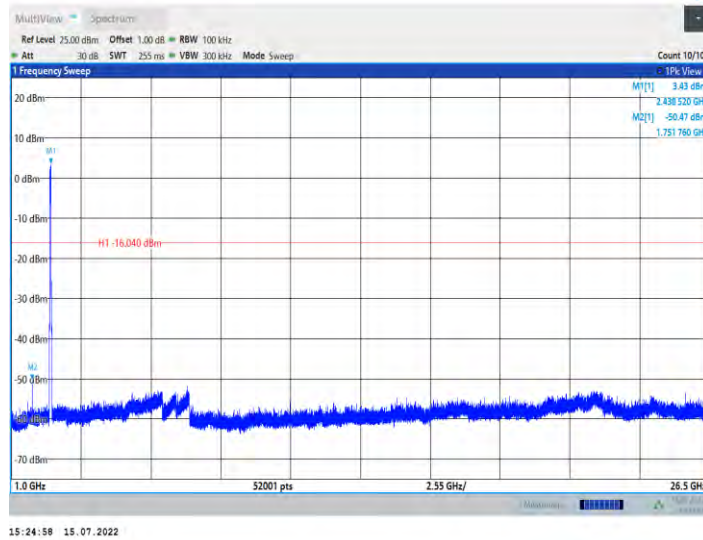
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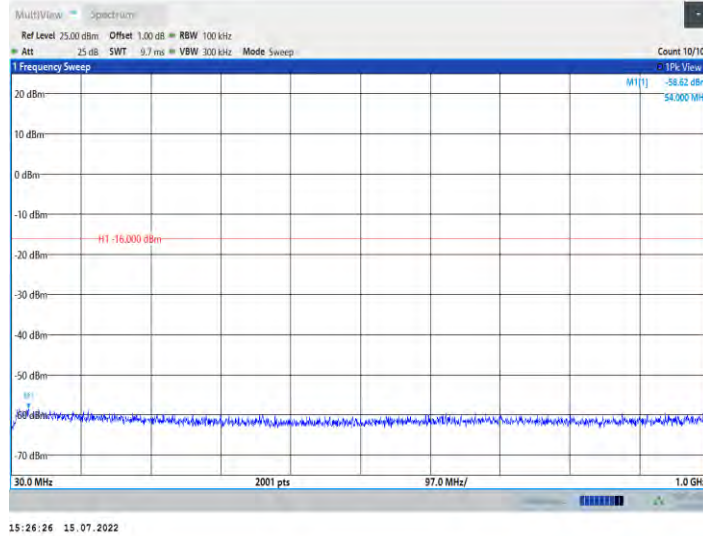
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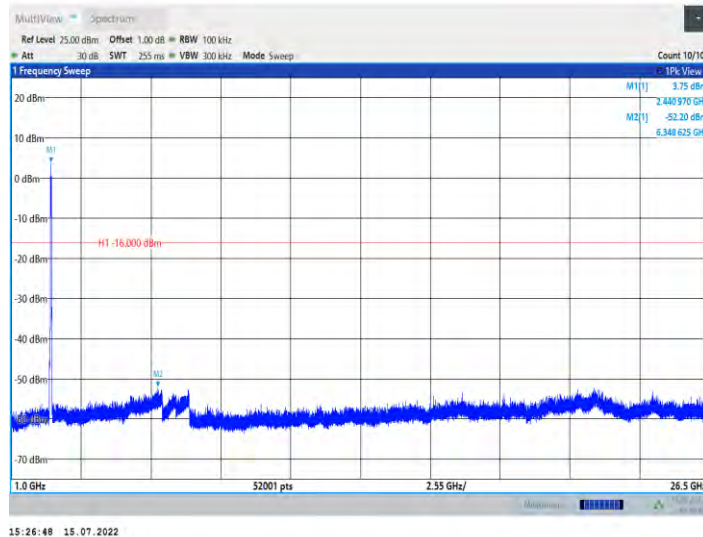
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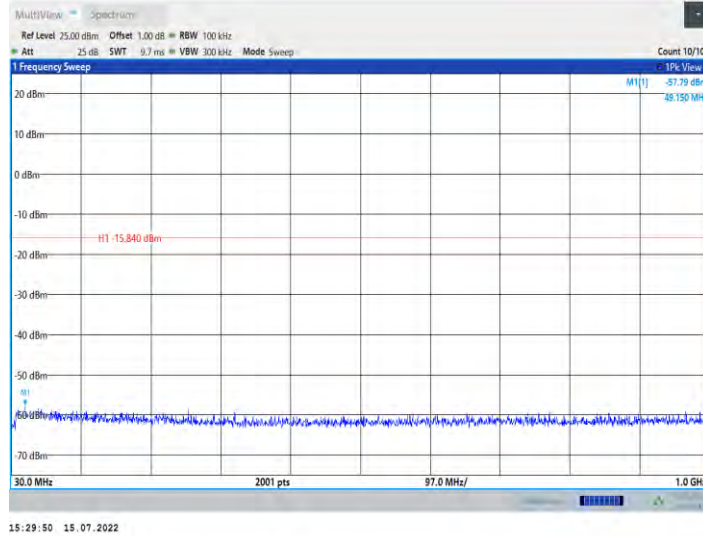


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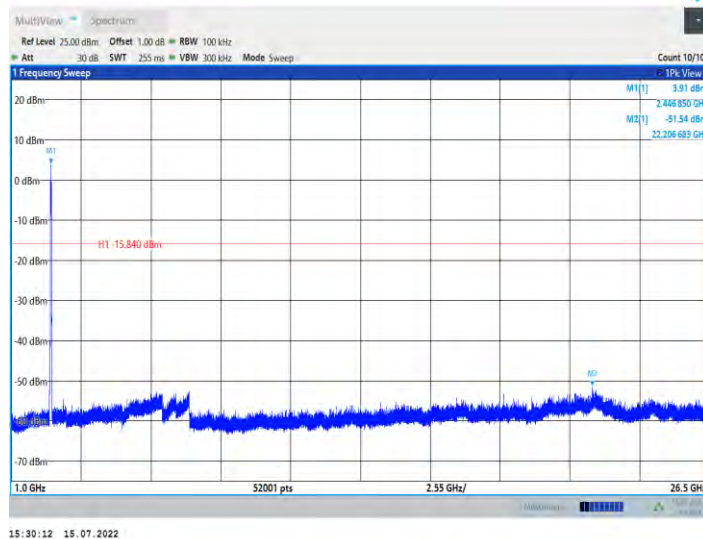
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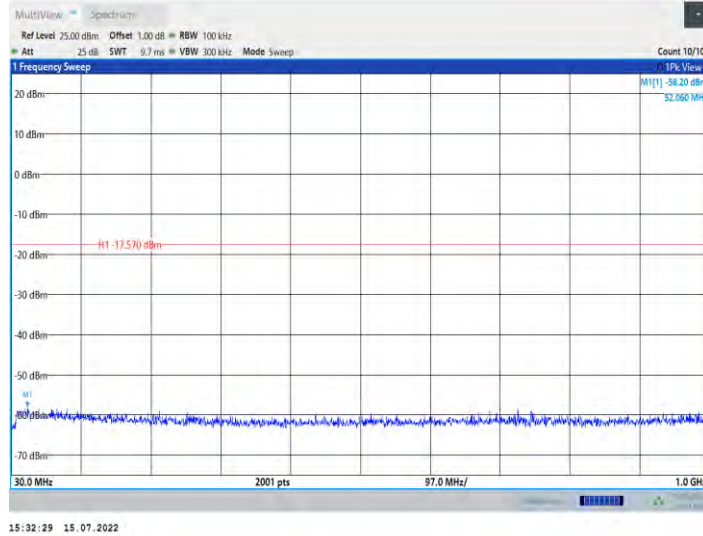


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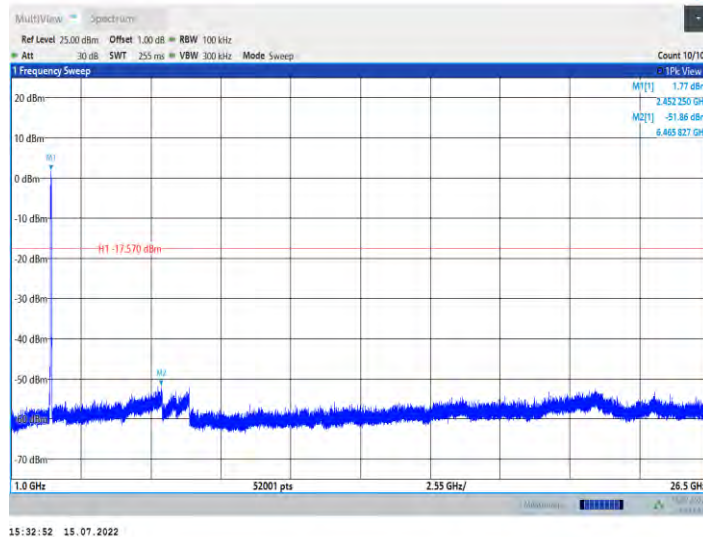
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11N40SISO Ant7 2447 30~1000



11N40SISO Ant7 2447 1000~26500

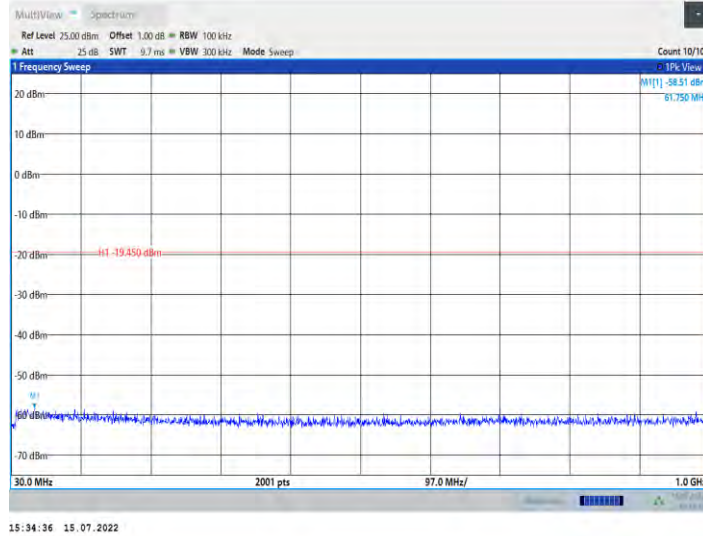


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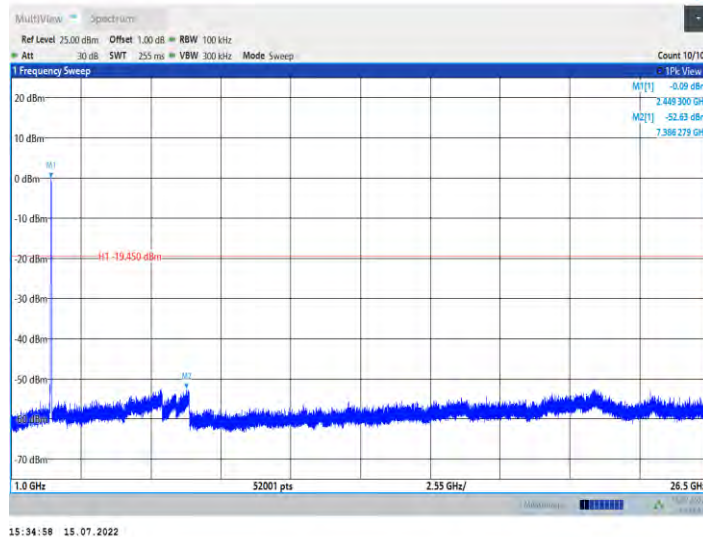
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11N40SISO Ant7 2452\_30~1000



11N40SISO Ant7 2452\_1000~26500



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Report No.: SEWM2206000086RG04

Rev.: 01

Page: 96 of 172

### Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11B	Ant7	2412	12.44	12.54	99.20
11G	Ant7	2412	2.06	2.10	98.10
11N20SISO	Ant7	2412	1.92	1.96	97.96
11N40SISO	Ant7	2422	0.95	1.00	95.00



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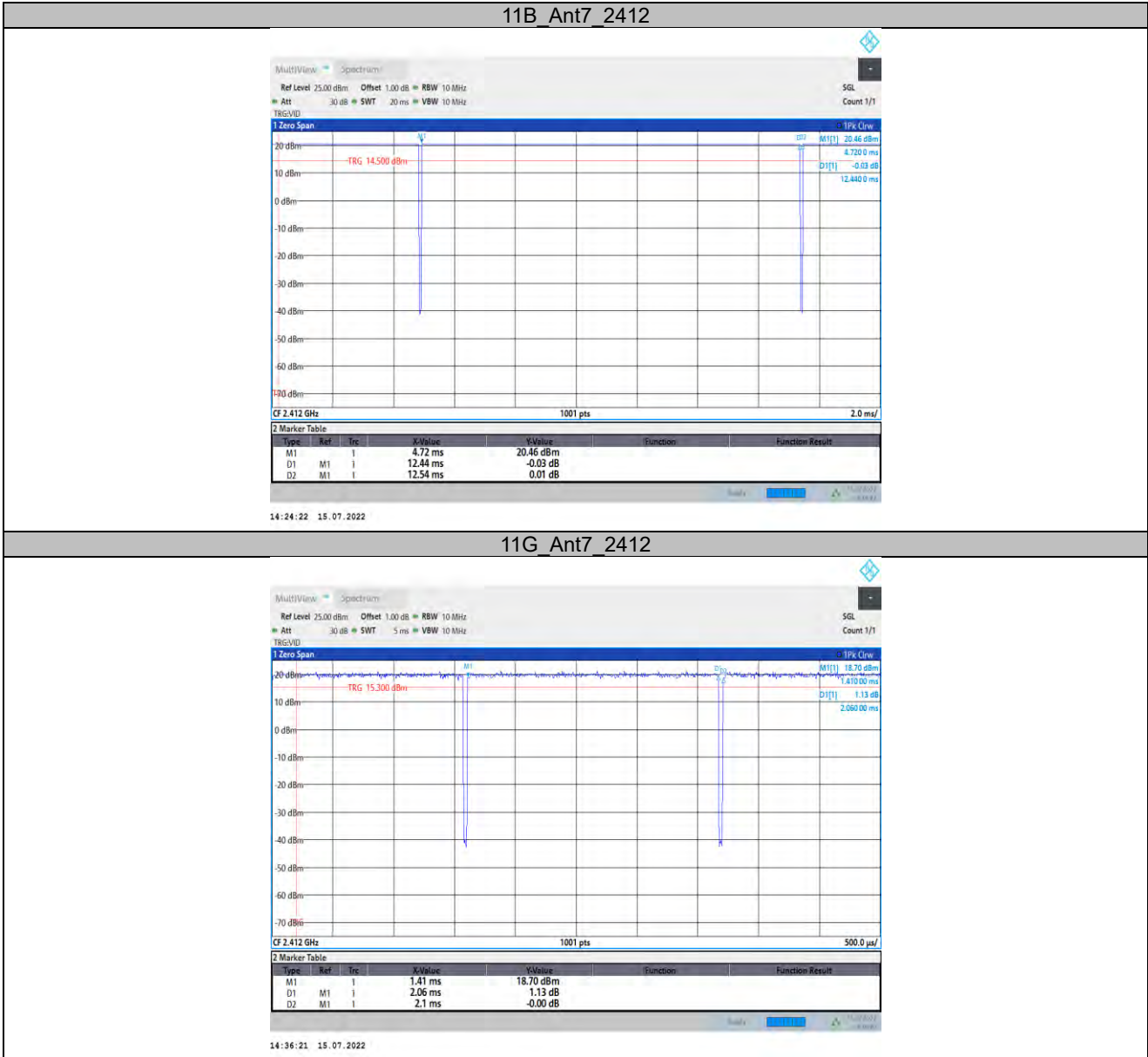
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Test Graphs

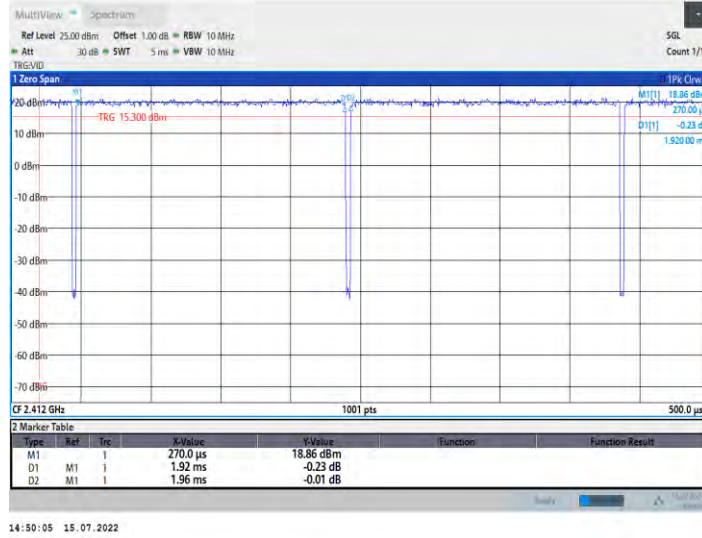


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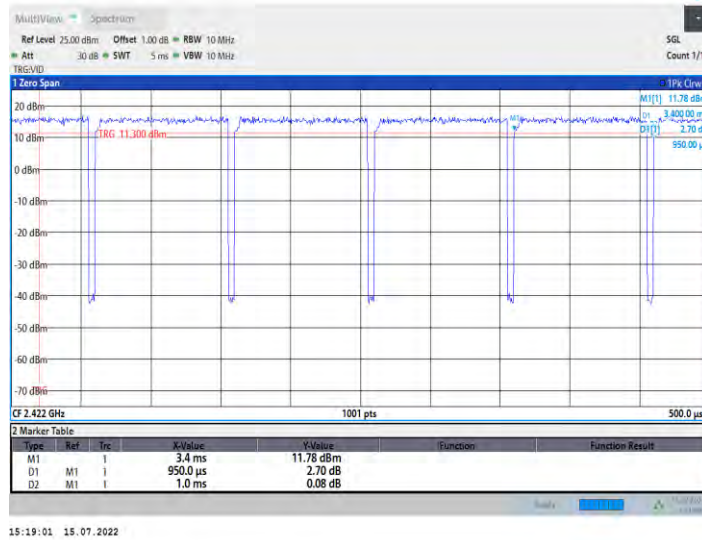
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11N20SISO\_Ant7\_2412



11N40SISO\_Ant7\_2422



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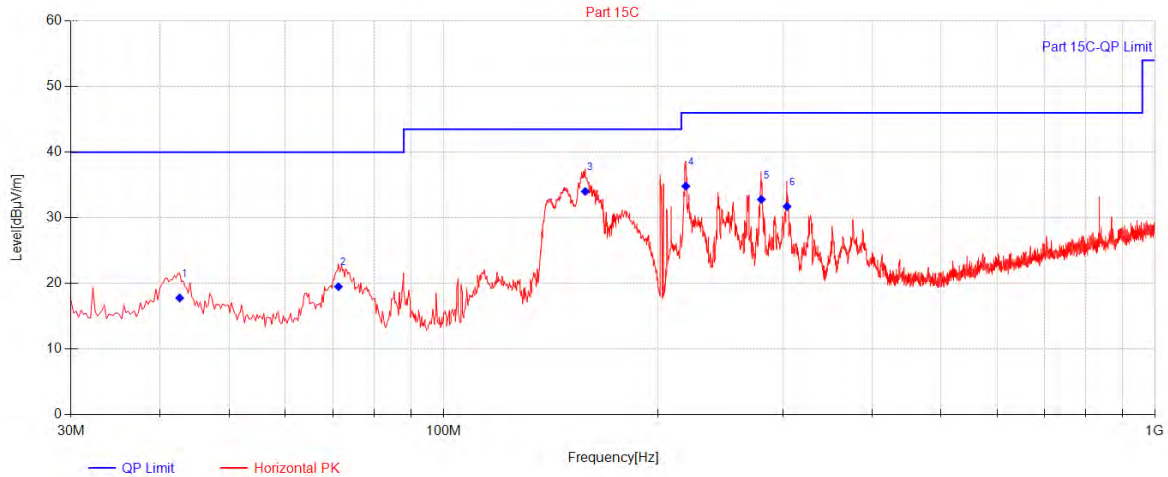
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## Radiated Spurious Emissions

### Radiated emission below 1GHz

#### For Sample #1:

#### Worst case Mode: 11n40\_Channel 09



Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	42.61	40.16	-36.24	13.85	17.77	40.00	22.23	185	118	Horizontal
2	71.225	45.28	-36.41	10.63	19.50	40.00	20.50	236	324	Horizontal
3	158.2825	55.23	-35.30	14.09	34.01	43.50	9.49	254	203	Horizontal
4	219.15	59.17	-34.89	10.54	34.82	46.00	11.18	185	172	Horizontal
5	279.775	55.03	-34.53	12.30	32.80	46.00	13.20	143	164	Horizontal
6	304.025	53.12	-34.30	12.88	31.71	46.00	14.29	199	141	Horizontal

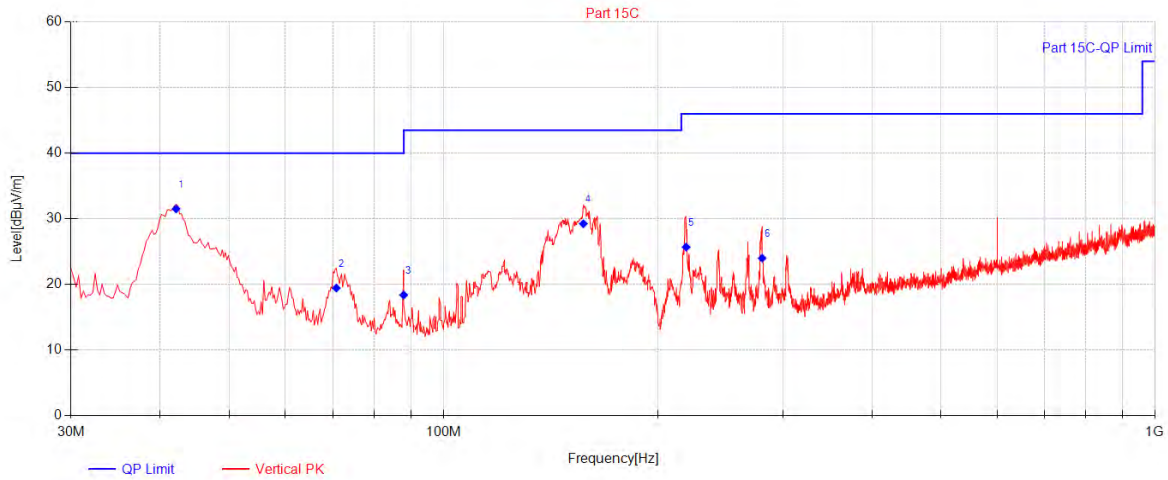


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NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	42.125	53.85	-36.24	13.89	31.50	40.00	8.50	125	195	Vertical
2	70.74	45.18	-36.45	10.71	19.43	40.00	20.57	148	310	Vertical
3	87.9575	45.23	-36.27	9.41	18.37	40.00	21.63	175	156	Vertical
4	157.3125	50.48	-35.30	14.06	29.24	43.50	14.26	196	217	Vertical
5	219.3925	50.02	-34.89	10.55	25.68	46.00	20.32	235	349	Vertical
6	280.5025	46.19	-34.52	12.32	23.99	46.00	22.01	184	132	Vertical



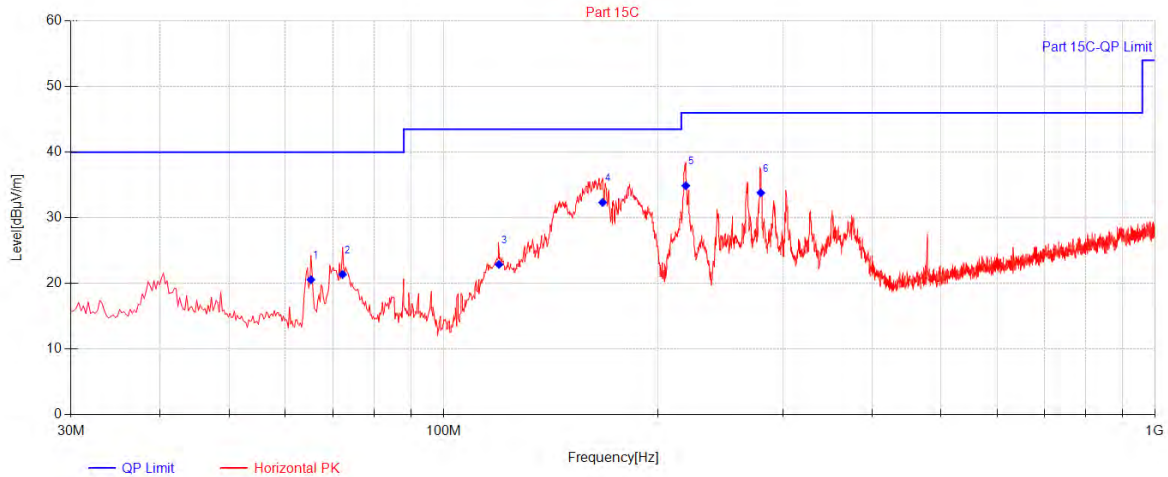
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**For Sample #2:**



Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	65.1625	45.26	-36.46	11.75	20.55	40.00	19.45	162	172	Horizontal
2	72.195	47.21	-36.32	10.48	21.37	40.00	18.63	235	126	Horizontal
3	119.725	46.82	-36.15	12.21	22.88	43.50	20.62	148	86	Horizontal
4	167.4975	53.18	-35.19	14.34	32.34	43.50	11.16	175	140	Horizontal
5	219.15	59.23	-34.89	10.54	34.88	46.00	11.12	199	264	Horizontal
6	279.29	56.02	-34.51	12.29	33.80	46.00	12.20	152	341	Horizontal

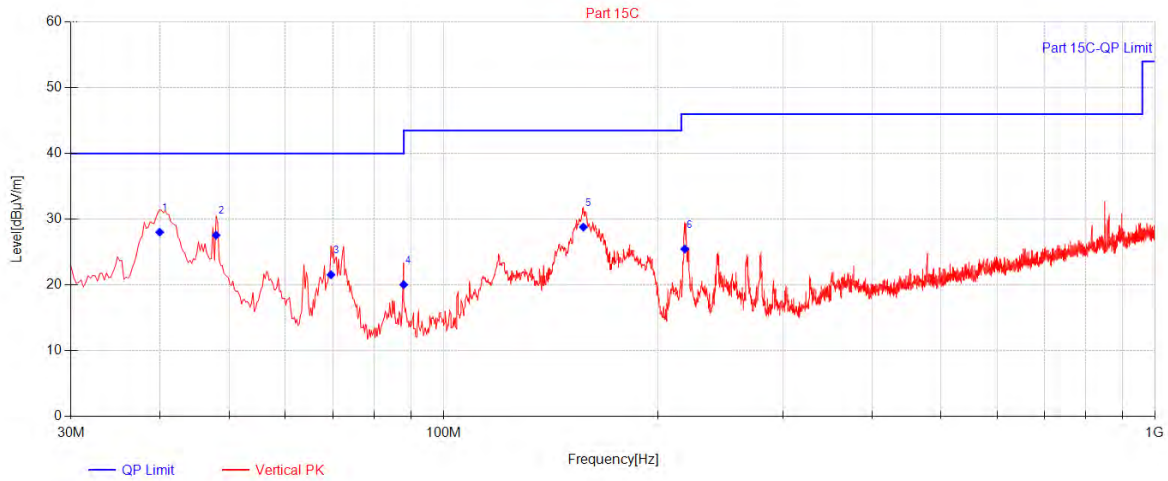


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NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	39.9425	50.23	-36.27	14.06	28.02	40.00	11.98	251	211	Vertical
2	47.945	50.14	-36.17	13.59	27.56	40.00	12.44	146	148	Vertical
3	69.5275	47.13	-36.51	10.91	21.53	40.00	18.47	301	95	Vertical
4	87.9575	46.89	-36.27	9.41	20.03	40.00	19.97	185	164	Vertical
5	157.3125	50.04	-35.30	14.06	28.80	43.50	14.70	195	202	Vertical
6	218.4225	49.85	-34.90	10.52	25.46	46.00	20.54	175	264	Vertical



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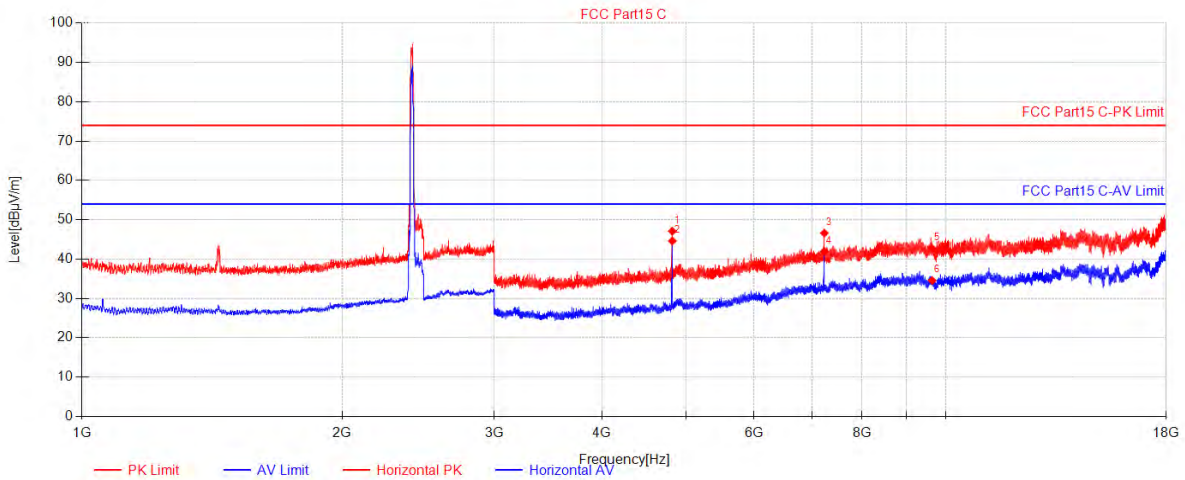
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**Transmitter emission Above 1GHz**

**For Sample #1:**

**802.11b\_Channel 01**



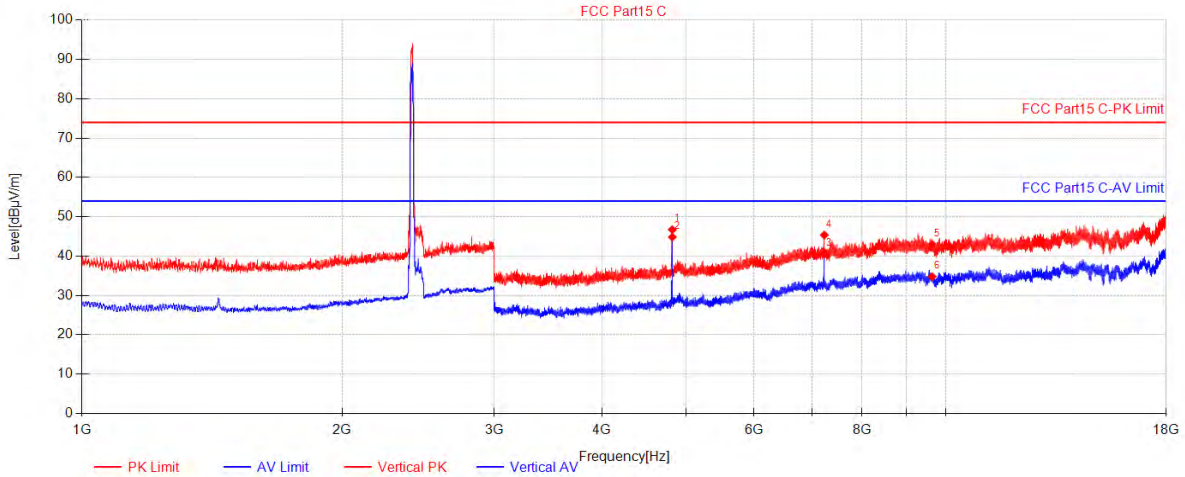
Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824	60.24	32.39	-45.54	47.09	74.00	26.91	148	125	Horizontal
2	4824.5	57.76	32.39	-45.54	44.61	54.00	9.39	156	236	Horizontal
3	7236.5	53.56	36.58	-43.54	46.60	74.00	27.40	136	276	Horizontal
4	7237	48.88	36.58	-43.54	41.92	54.00	12.08	261	12	Horizontal
5	9648.0000	43.86	38.39	-39.56	42.69	74.00	31.31	125	139	Horizontal
6	9648.0000	35.73	38.39	-39.56	34.56	54.00	19.44	199	250	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]	Height [cm]	Angle [°]	Polarity
1	4824	59.87	32.39	-45.54	46.72	74.00	27.28	125	248	Vertical
2	4824.5	57.99	32.39	-45.54	44.84	54.00	9.16	236	248	Vertical
3	7235.5	47.64	36.58	-43.54	40.68	54.00	13.32	251	83	Vertical
4	7236.5	52.32	36.58	-43.54	45.36	74.00	28.64	142	83	Vertical
5	9648.0000	44.13	38.39	-39.56	42.96	74.00	31.04	122	224	Vertical
6	9648.0000	35.96	38.39	-39.56	34.79	54.00	19.21	236	109	Vertical



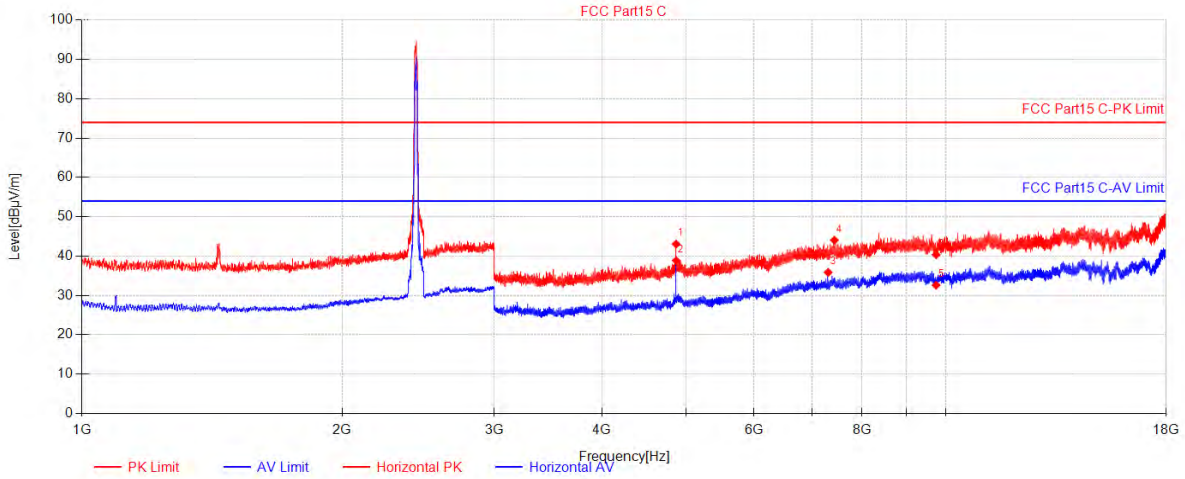
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802.11b\_Channel 06



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874	56.06	32.53	-45.53	43.05	74.00	30.95	145	26	Horizontal
2	4874.5	51.86	32.53	-45.53	38.86	54.00	15.14	154	276	Horizontal
3	7312	43.04	36.54	-43.71	35.87	54.00	18.13	126	82	Horizontal
4	7434	50.90	36.47	-43.32	44.05	74.00	29.95	184	1	Horizontal
5	9748.0000	33.79	38.28	-39.46	32.61	54.00	21.39	172	26	Horizontal
6	9748.0000	41.53	38.28	-39.46	40.35	74.00	33.65	231	155	Horizontal

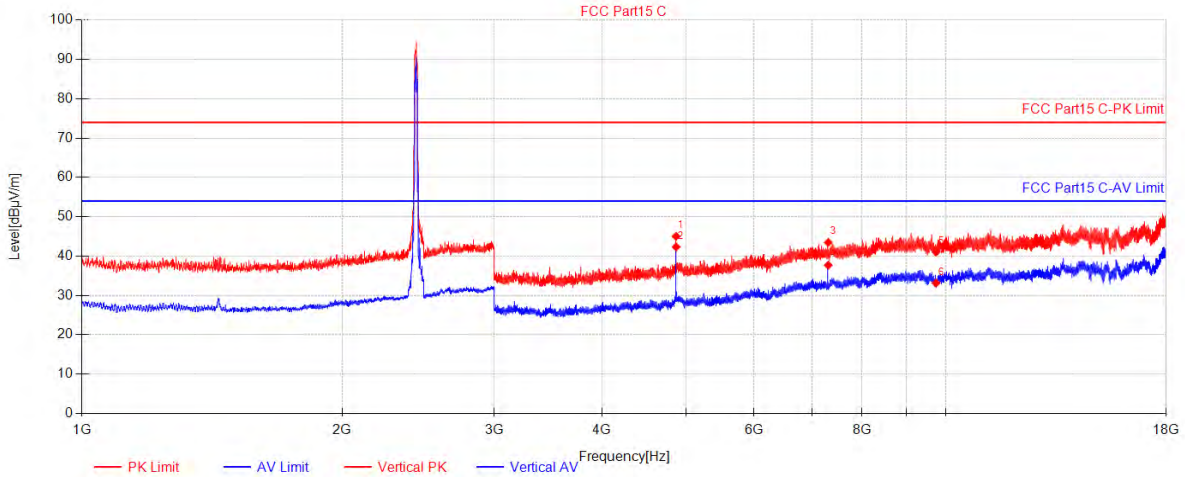


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802.11b\_Channel 06



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874	58.03	32.53	-45.53	45.02	74.00	28.98	154	136	Vertical
2	4874.5	55.34	32.53	-45.53	42.34	54.00	11.66	251	136	Vertical
3	7312	50.65	36.54	-43.71	43.48	74.00	30.52	236	193	Vertical
4	7313	44.87	36.54	-43.71	37.70	54.00	16.30	291	193	Vertical
5	9748.0000	42.23	38.28	-39.46	41.05	74.00	32.95	147	0	Vertical
6	9748.0000	34.34	38.28	-39.46	33.16	54.00	20.84	188	164	Vertical



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