

Report No.: SEWM2206000064RG04

Rev.: 01

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TEST REPORT

Application No.: SEWM2206000064RG
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: Smart Phone
Model No.: SL201D
Trade Mark: bounce
FCC ID: 2A28USL201D
Standards: FCC 47 CFR Part 2, Subpart J
 FCC 47 CFR Part 15, Subpart C
Date of Receipt: 2022/06/06
Date of Test: 2022/06/10 to 2022/07/14
Date of Issue: 2022/07/20

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

Authorized Signature:

Panta Sun

Panta Sun
Wireless Laboratory Manager



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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022/07/20		Original

Prepared By		King-p Li
		(King-p Li) / Test Engineer
Checked By		Well Wei
		(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

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

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, King-p Li

3.3 Test Facility

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

• **A2LA (Certificate No. 6336.01)**

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

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

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

CAB identifier: CN0120.

IC#: 27594.

• **FCC –Designation Number: CN1312**

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

Designation Number: CN1312.

Test Firm Registration Number: 717327



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3.4 General Description of EUT

EUT Description:	Smart Phone	
Model No.:	SL201D	
Trade Mark:	bounce	
Hardware Version:	1.0	
Software Version:	SL201DD10005	
IMEI:	RF Conducted	355581700003452 355581700003401
	RSE & AC power line	355581700005390
Operation Frequency:	802.11b/g/n(HT20):	2412MHz to 2462MHz
	802.11n(HT40):	2422MHz to 2452MHz
Modulation Type:	802.11b:	DSSS (DBPSK, DQPSK, CCK)
	802.11g/n:	OFDM (BPSK, QPSK, 16QAM, 64QAM)
Number of Channels:	802.11b/g/n(HT20): 11 802.11n(HT40): 7	
Channel Spacing:	5MHz	
Smart System:	☒ SISO	802.11b/g/n
	☐ MIMO	CDD: 802.11b/g/n/VHT/ax: Tx & Rx
		STBC: 802.11n/VHT/ax: Tx & Rx
		TXBF: 802.11n/VHT/ax: Tx & Rx
	☐ Diversity	802.11b/g : Tx & Rx
Antenna Type:	☐ External, ☒ Integrated	
Antenna Gain*:	☒ Provided by client	
	0.6dBi(ANT3)	
RF Cable:	1dB	
Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information , SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion. Remark: As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.		



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



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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	3.8
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

Standard requirement:	47 CFR Part 15C Section 15.203 /247(b)
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The antenna is integrated and no consideration of replacement. The best case gain of the antenna is 0.6dBi(ANT3). (Provided by client)*. <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> <i>Remark:</i> <i>As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.</i>	



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4.2 AC Power Line Conducted Emissions

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



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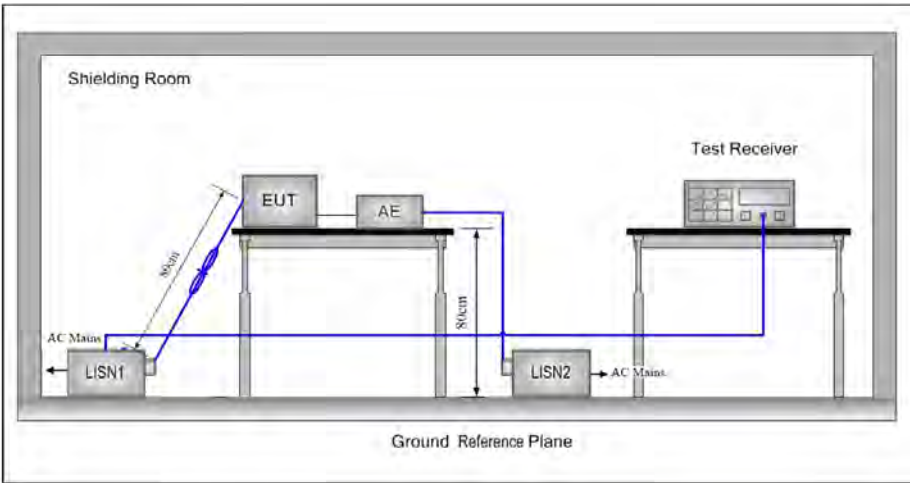
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Test Setup:	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel. Charge + Transmitting mode.
Final Test Mode:	Refer to section 3.7 for details. Only the worst case is recorded in the report.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



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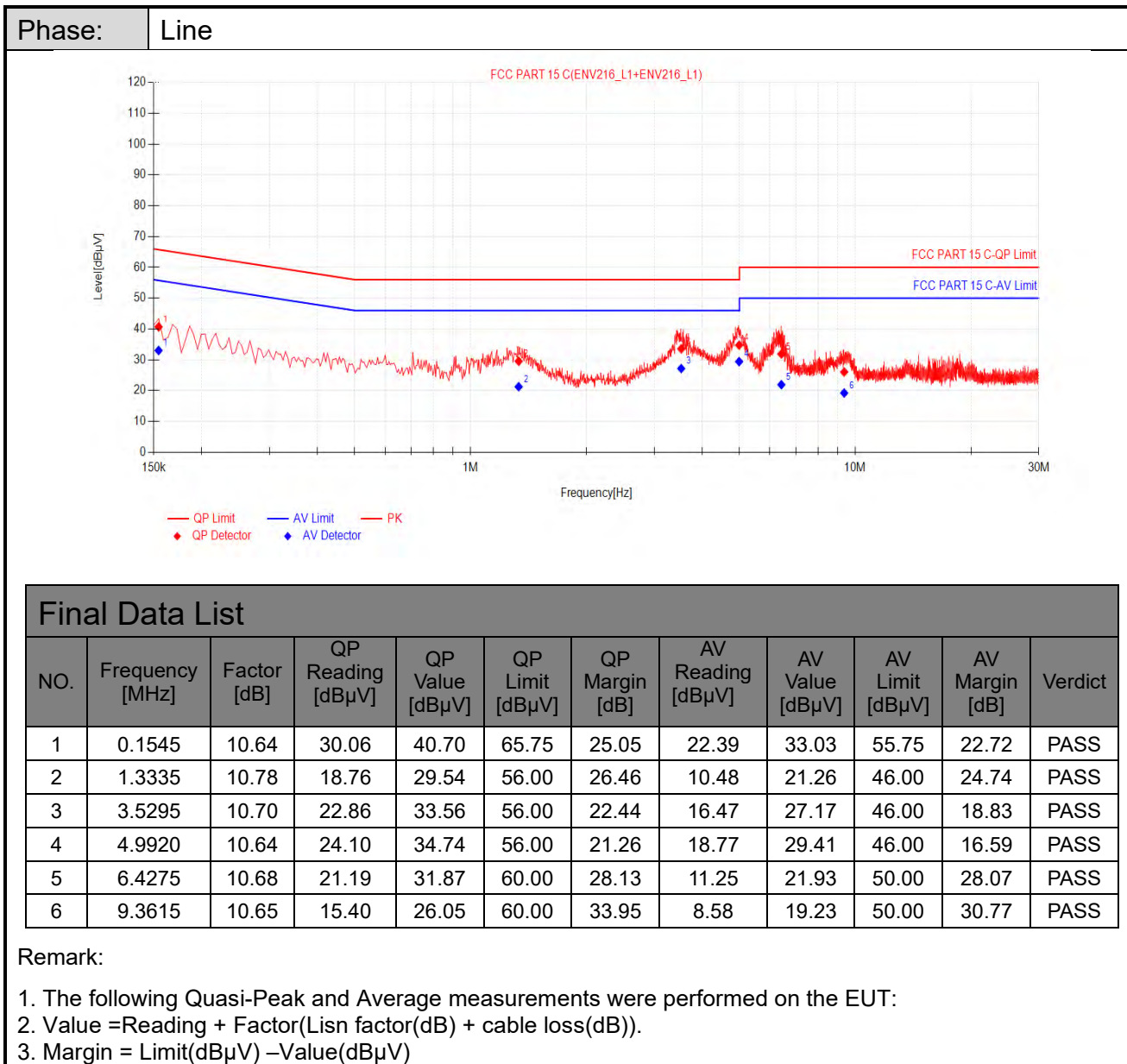
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Measurement Data

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.

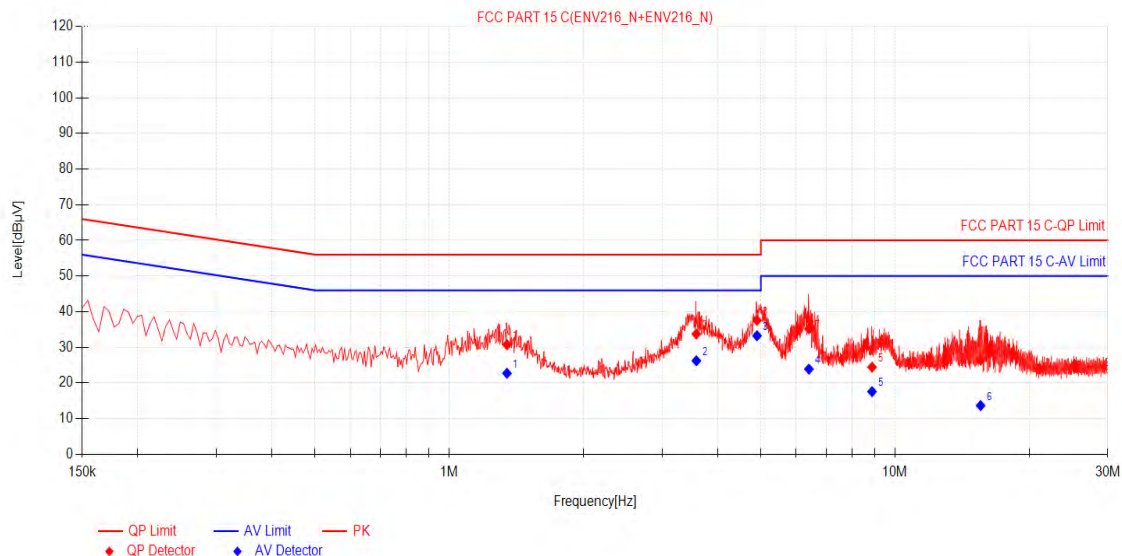


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Phase: Neutral



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:

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



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4.3 Duty Cycle

The detailed test data see: **Appendix**



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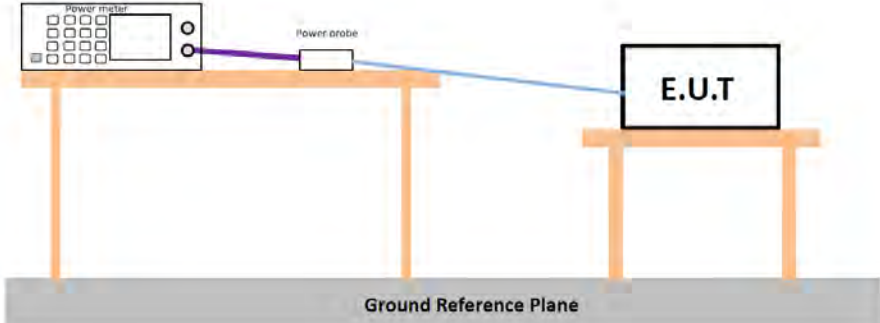
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4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 :2013 Section11.9.2.3
Test Setup:	 * Test with power meter (Detector function: Peak)
Test Instruments:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	30dBm
Test Results:	Pass
The detailed test data see: Appendix	



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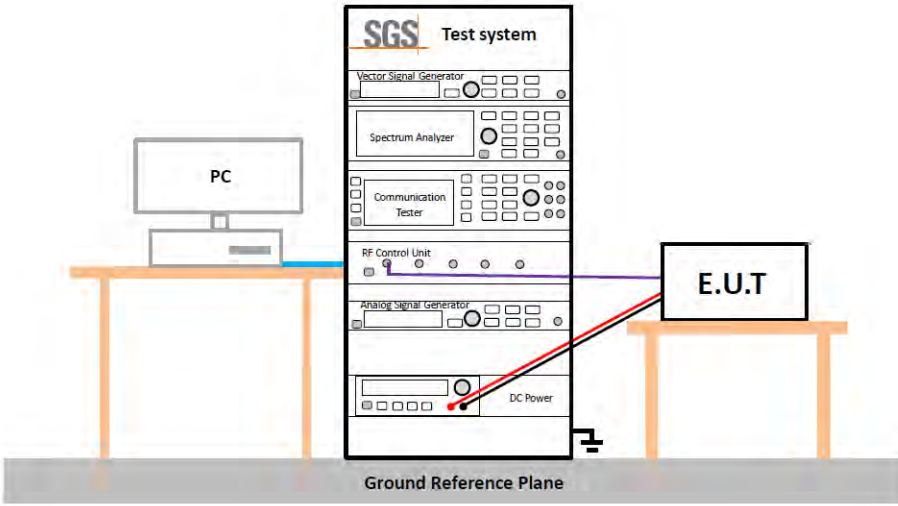
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4.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth

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: Appendix	



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4.6 Power Spectral Density

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



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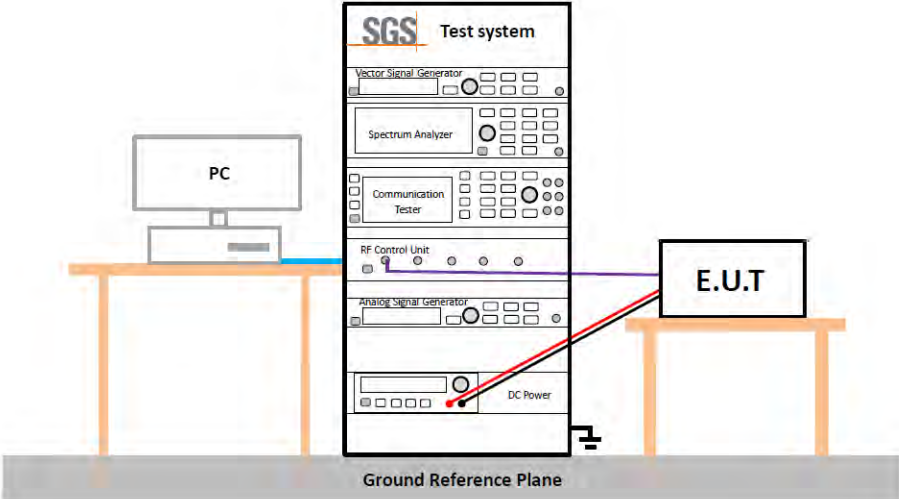
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4.7 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.11
Test Setup:	
Instruments Used:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Results:	Pass
The detailed test data see: Appendix	



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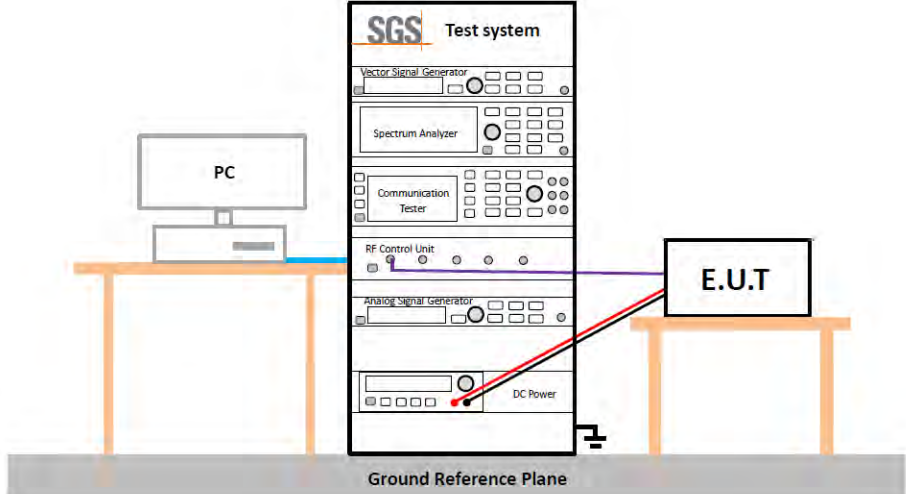
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4.8 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.11
Test Setup:	
Instruments Used:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Results:	Pass
The detailed test data see: Appendix	



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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:

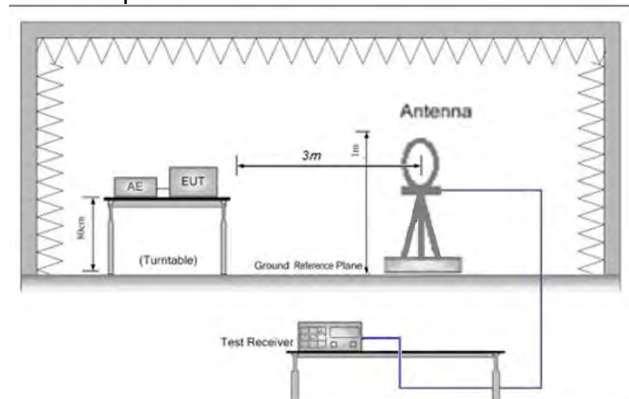


Figure 1. Below 30MHz

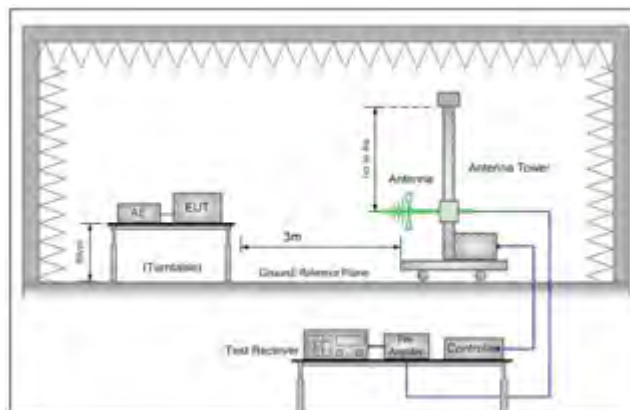


Figure 2. 30MHz to 1GHz

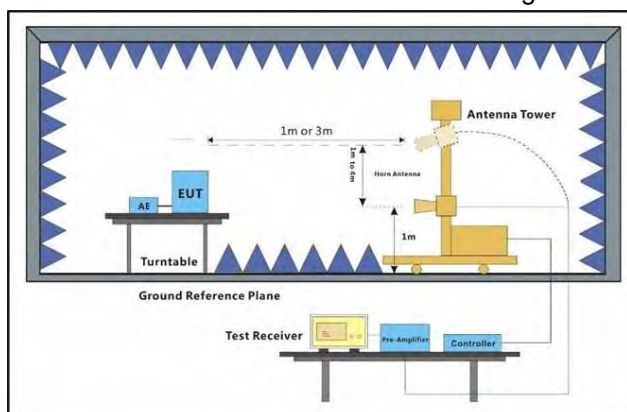


Figure 3. Above 1 GHz

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

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	maximum reading. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. Test the EUT in the lowest channel, the middle channel ,the Highest channel. h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the Z axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete. j. The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported k. The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed. l. At a measurement distance of 1 meter the limit line was increased by $20 \cdot \text{LOG}(3/1) = 9.54 \text{ dB}$.
Test Configuration:	Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW $\geq 3 \text{ MHz}$ • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW $\geq [3 \cdot \text{RBW}]$ • Detector = RMS (power averaging), if span / (# of points in sweep) $\leq (\text{RBW} / 2)$. 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. • Sweep time = auto • Perform a trace average of at least 100 traces.
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: Appendix	



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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:

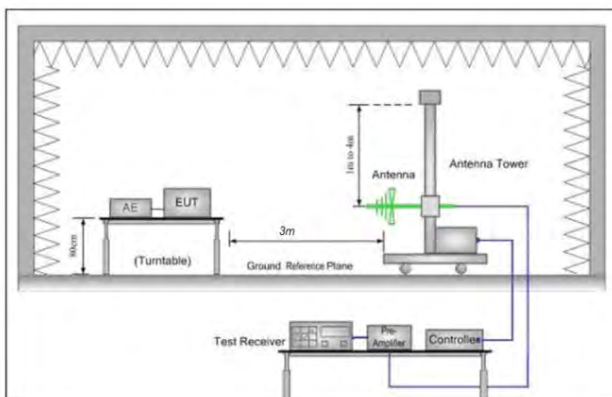


Figure 1. 30MHz to 1GHz

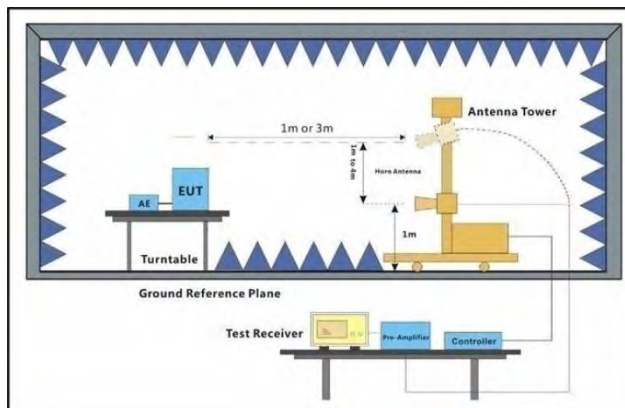


Figure 2. Above 1 GHz



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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. - 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 and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. - The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. - 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 - Test the EUT in the lowest channel , the Highest channel - The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the Z axis positioning which it is worse case. - Repeat above procedures until all frequencies measured was complete.
Test Configuration:	Measurements Below 1000MHz - RBW = 120 kHz - VBW = 300 kHz - Detector = Peak - Trace mode = max hold Peak Measurements Above 1000 MHz - RBW = 1 MHz - VBW ≥ 3 MHz - Detector = Peak - Sweep time = auto - Trace mode = max hold Average Measurements Above 1000MHz - RBW = 1 MHz - VBW ≥ [3 *RBW] - 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. - Sweep time = auto - Perform a trace average of at least 100 traces.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.



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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: Appendix	



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

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

Remark:

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

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



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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	Ant3	2412	7.64	2408.40	2416.04	≥0.5	PASS
		2437	7.64	2432.92	2440.56	≥0.5	PASS
		2462	7.64	2458.40	2466.04	≥0.5	PASS
11G	Ant3	2412	15.76	2404.40	2420.16	≥0.5	PASS
		2437	15.12	2429.44	2444.56	≥0.5	PASS
		2457	15.44	2449.36	2464.80	≥0.5	PASS
		2462	15.24	2454.36	2469.60	≥0.5	PASS
11N20SISO	Ant3	2412	14.64	2405.92	2420.56	≥0.5	PASS
		2437	15.24	2429.36	2444.60	≥0.5	PASS
		2462	13.92	2455.68	2469.60	≥0.5	PASS
11N40SISO	Ant3	2422	33.92	2405.60	2439.52	≥0.5	PASS
		2437	34.00	2419.32	2453.32	≥0.5	PASS
		2447	35.36	2429.32	2464.68	≥0.5	PASS
		2452	35.28	2434.40	2469.68	≥0.5	PASS



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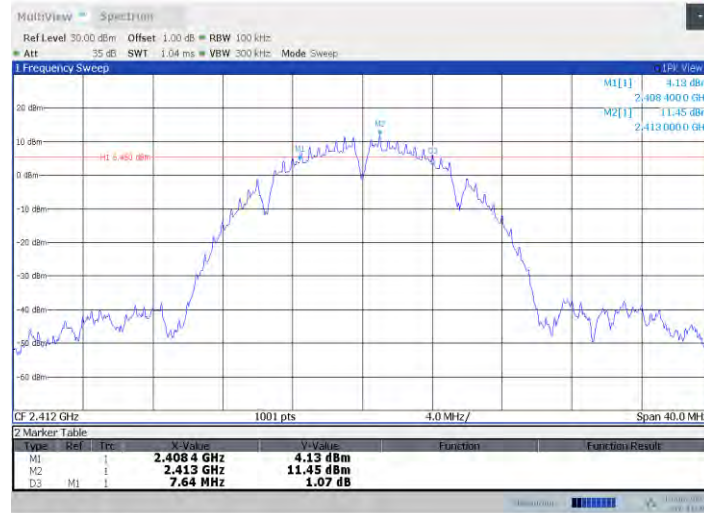
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Test Graphs

11B_Ant3_2412



07:31:30 14.06.2022

11B_Ant3_2437



07:39:25 14.06.2022



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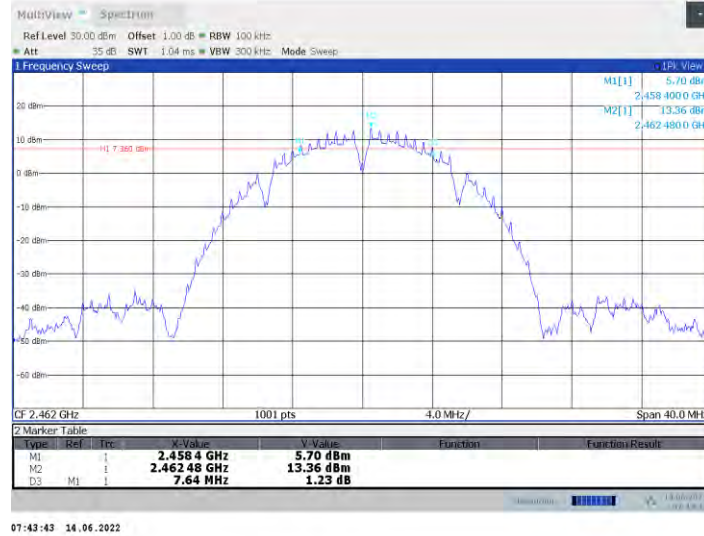
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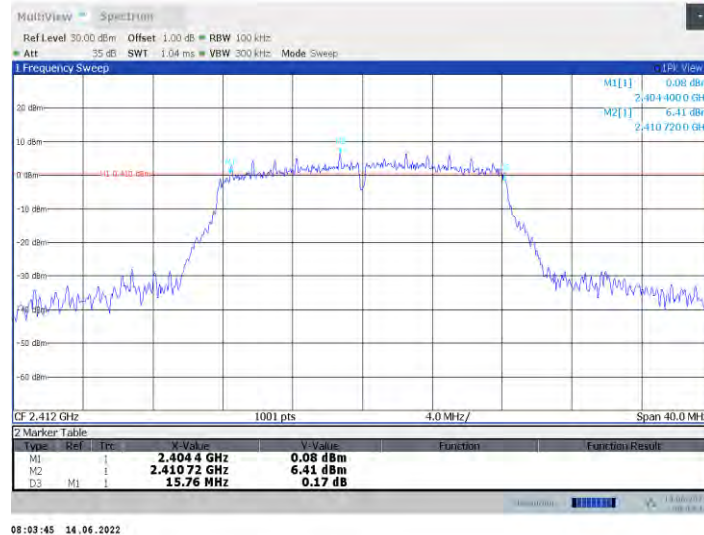
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11B Ant3 2462



07:43:43 14.06.2022

11G Ant3 2412



08:03:45 14.06.2022



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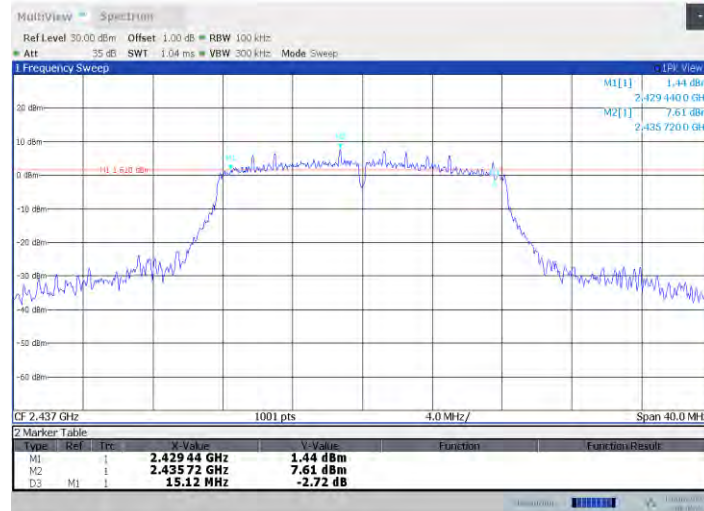
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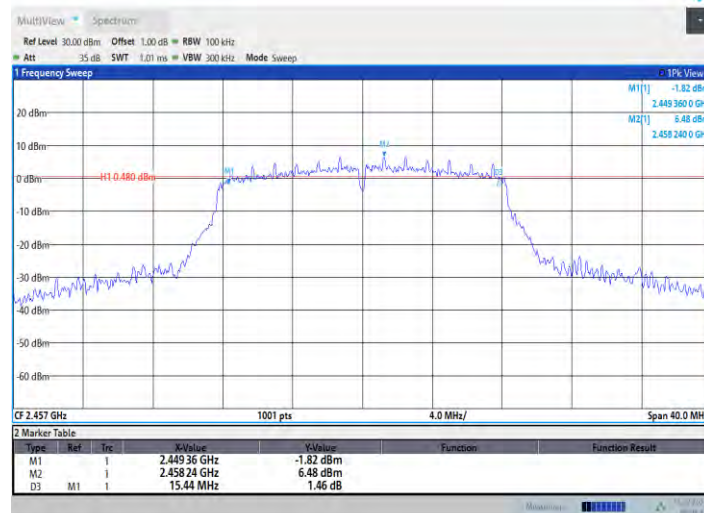
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08:05:52 14.06.2022

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06:04:34 15.07.2022



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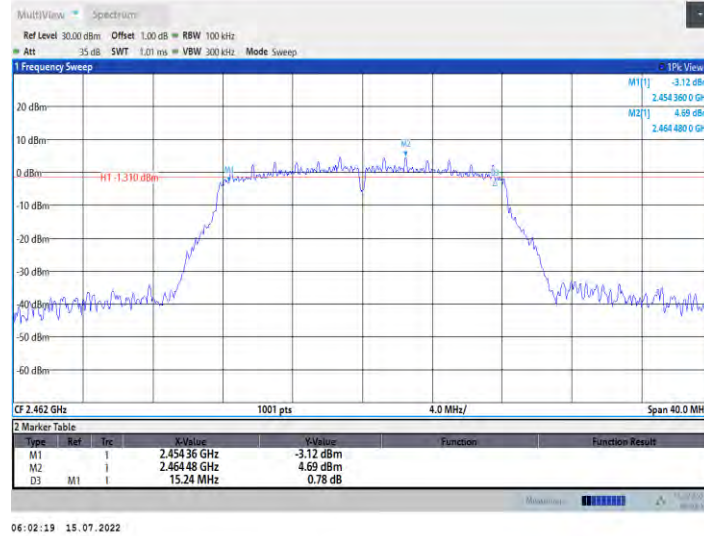
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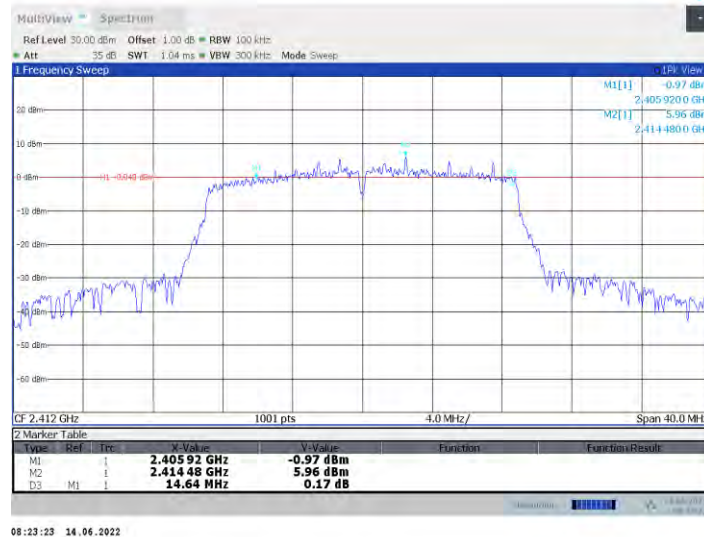
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11N20SISO_Ant3_2412



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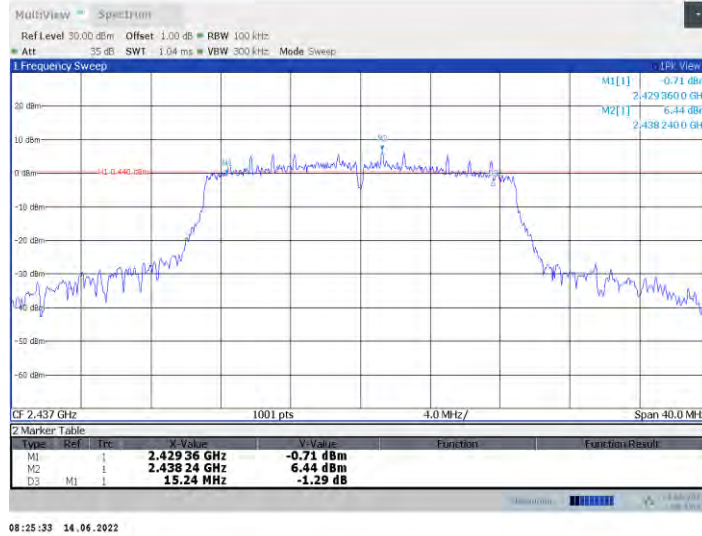
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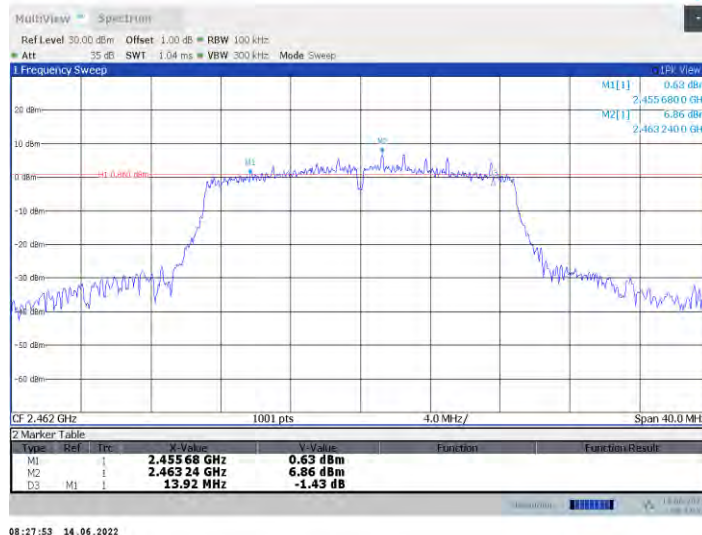
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08:25:33 14.06.2022

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08:27:53 14.06.2022



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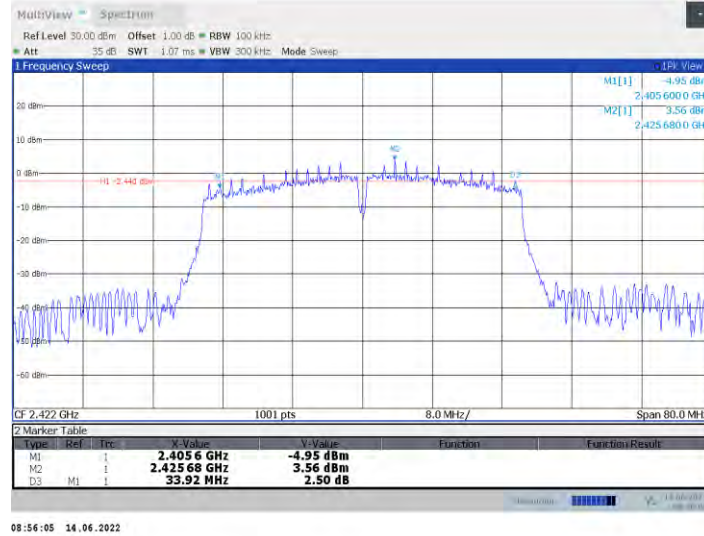
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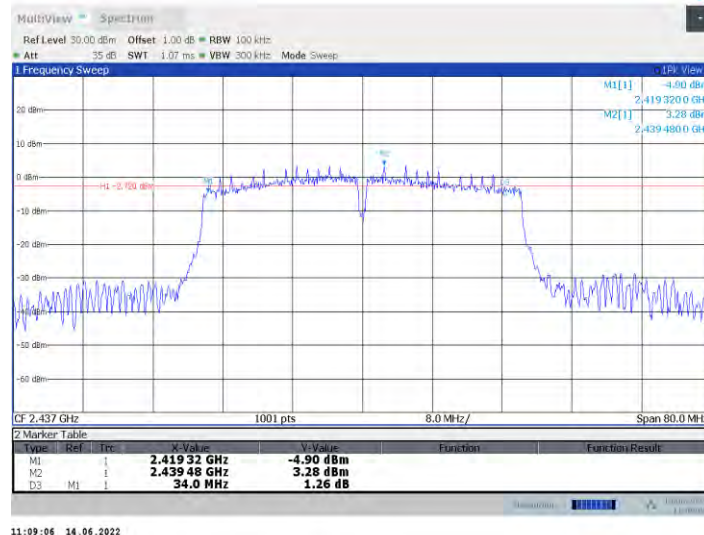
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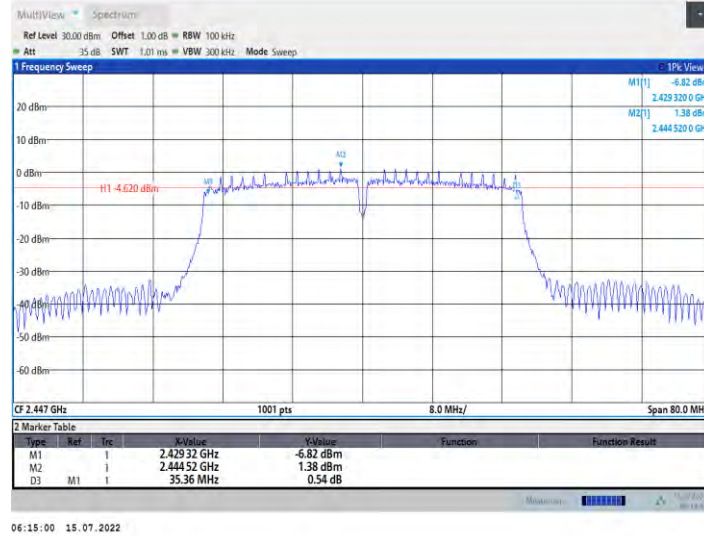
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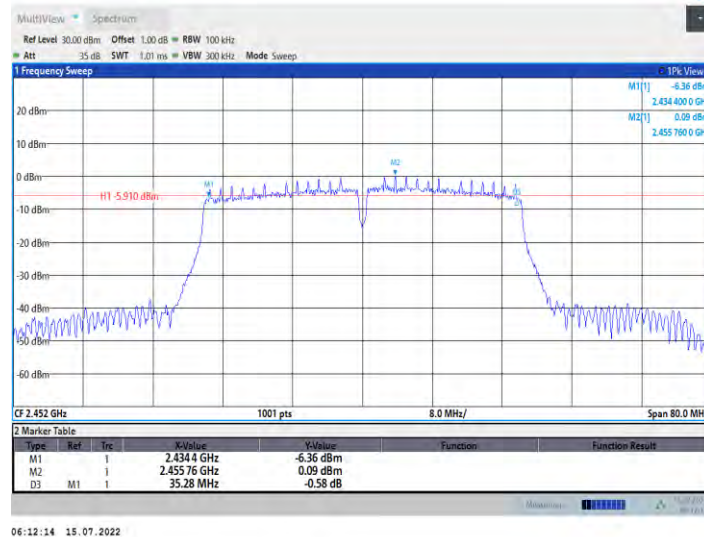
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Occupied Channel Bandwidth Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant3	2412	12.685	2405.757	2418.441	---	---
		2437	12.656	2430.596	2443.252	---	---
		2462	12.69	2455.682	2468.373	---	---
11G	Ant3	2412	17.088	2403.534	2420.622	---	---
		2437	17.089	2428.352	2445.441	---	---
		2457	17.173	2448.511	2465.684	---	---
		2462	17.097	2453.483	2470.580	---	---
11N20SISO	Ant3	2412	17.967	2403.080	2421.048	---	---
		2437	18.003	2427.921	2445.924	---	---
		2462	18.029	2452.995	2471.024	---	---
11N40SISO	Ant3	2422	36.189	2404.064	2440.252	---	---
		2437	36.621	2418.768	2455.389	---	---
		2447	36.477	2428.797	2465.274	---	---
		2452	36.494	2433.758	2470.252	---	---



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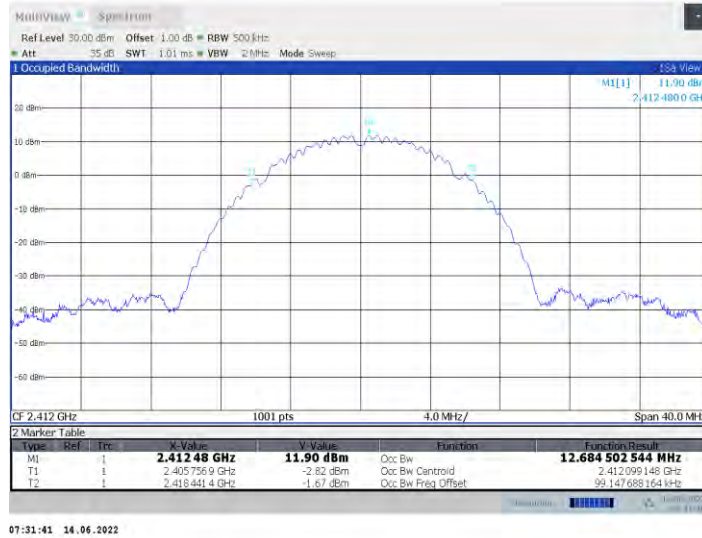
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Test Graphs

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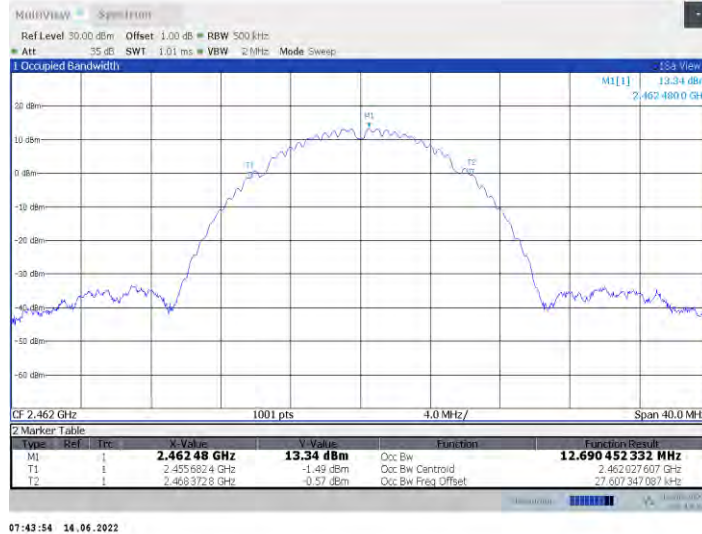
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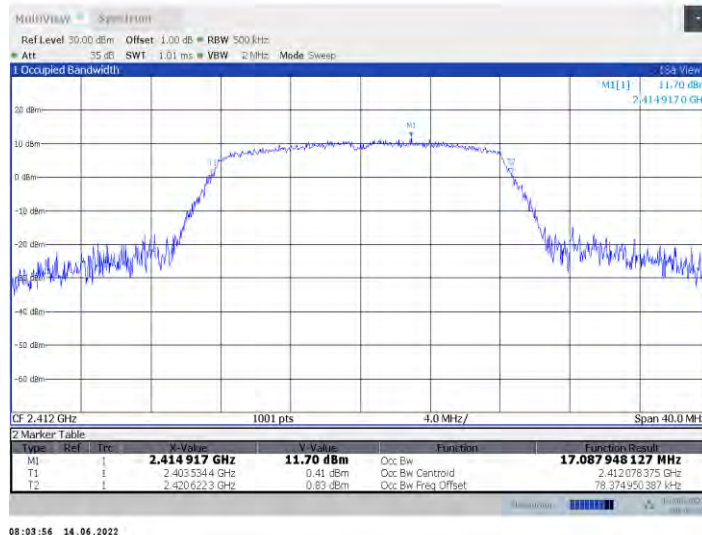
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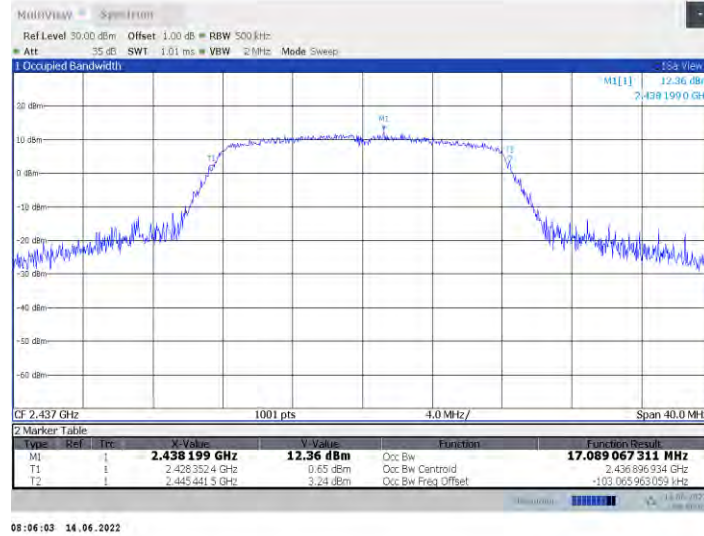
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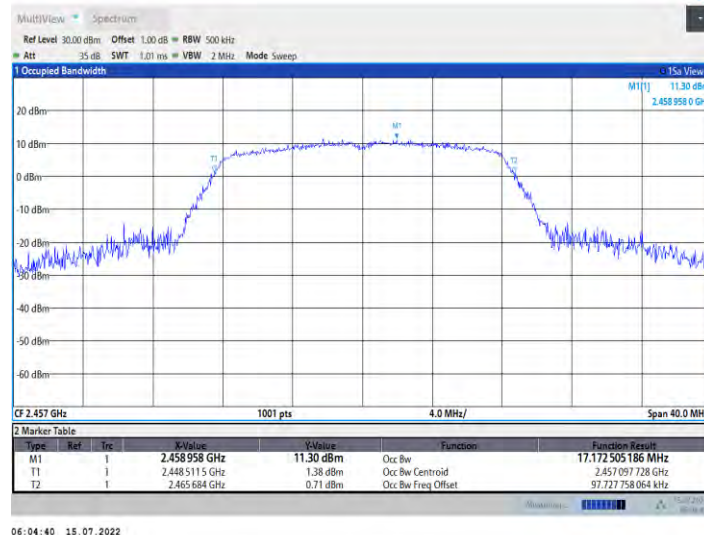
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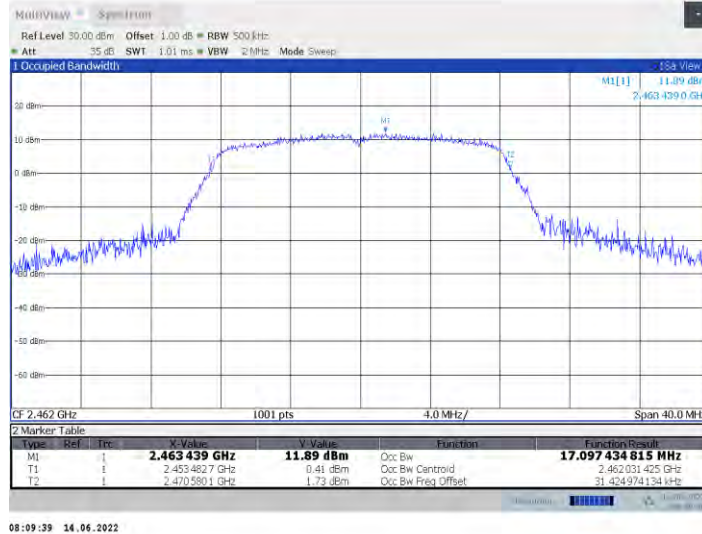
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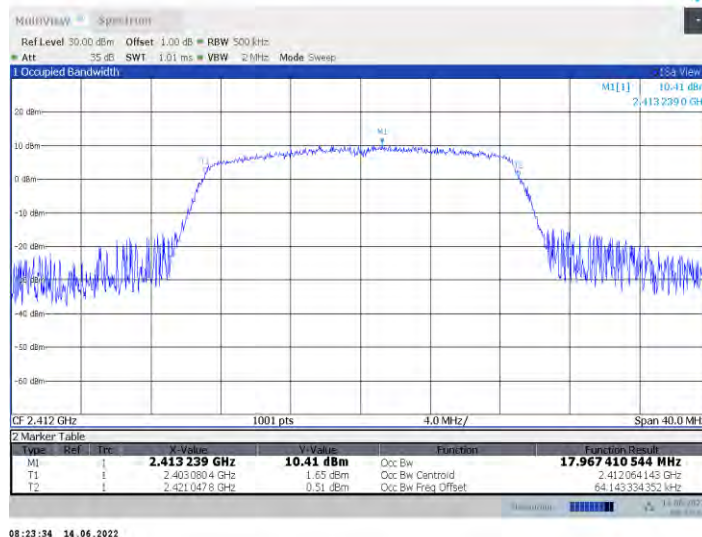
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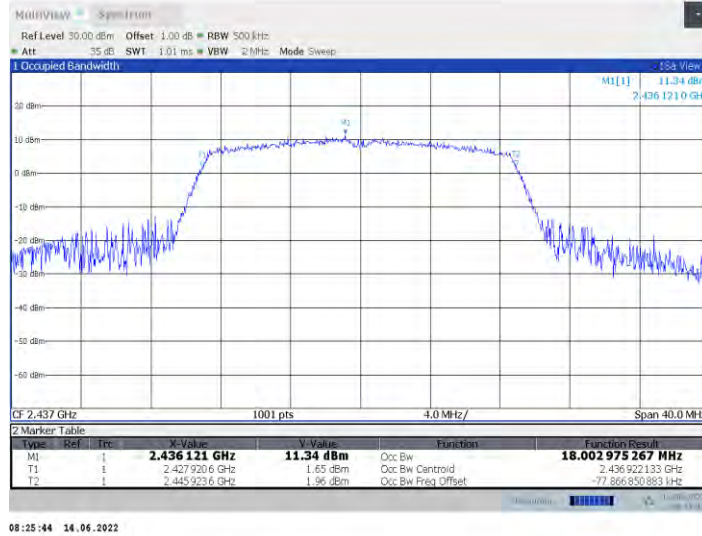
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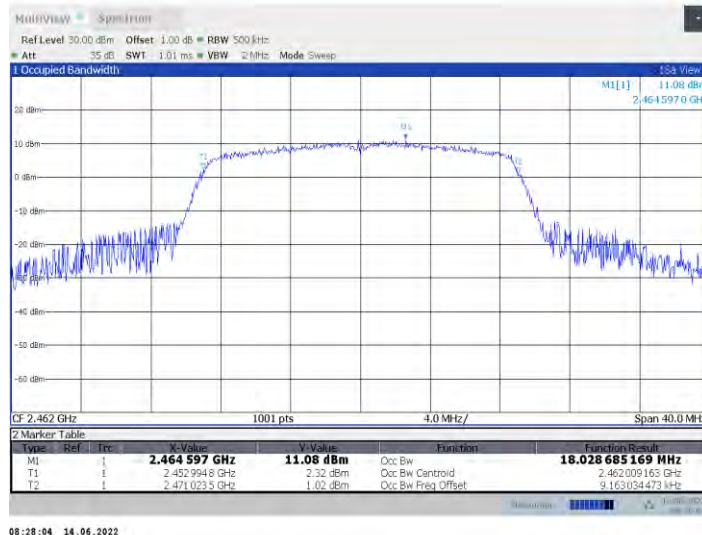
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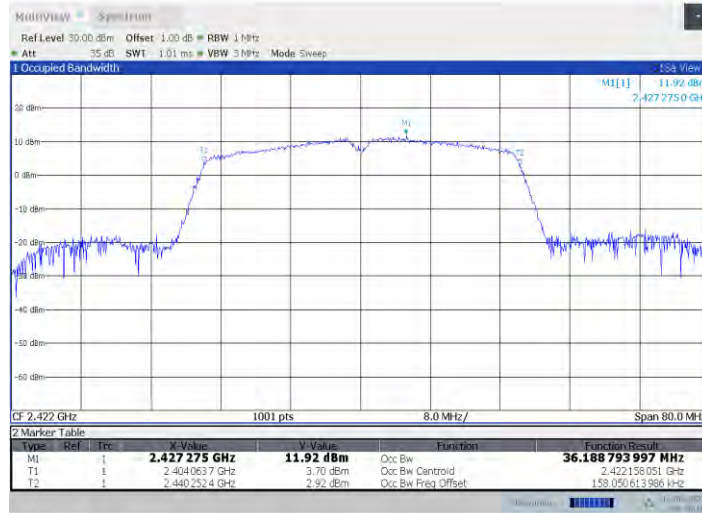
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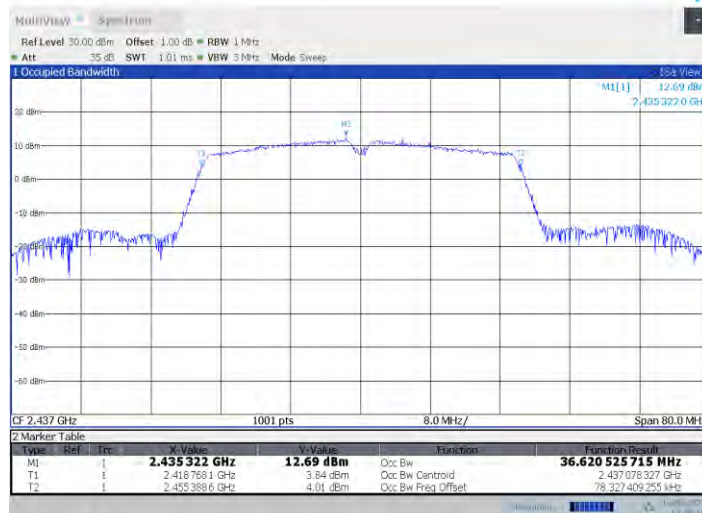
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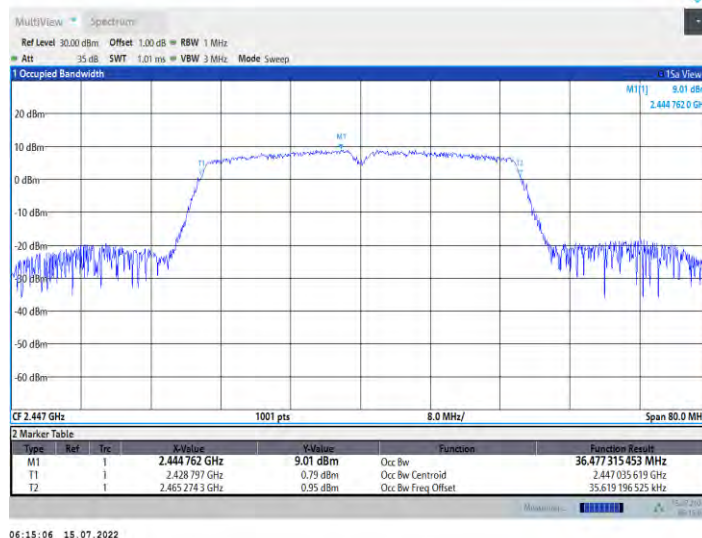
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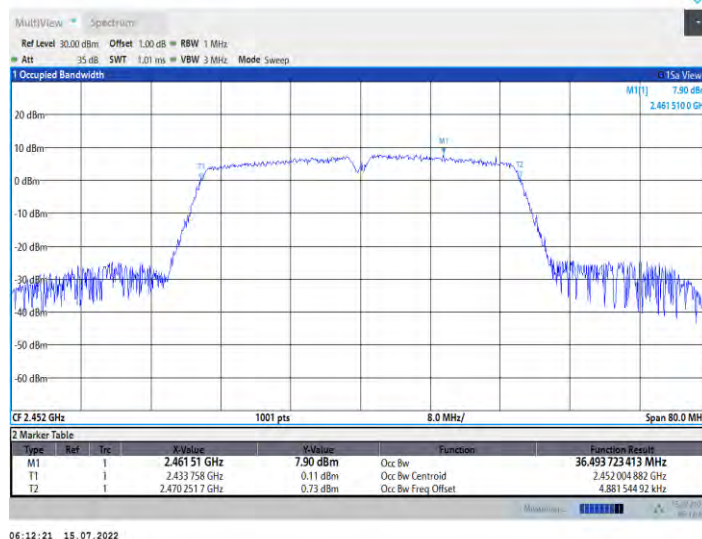
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Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant3	2412	22.96	≤30.00	PASS
		2437	22.98	≤30.00	PASS
		2462	22.87	≤30.00	PASS
11G	Ant3	2412	24.56	≤30.00	PASS
		2437	25.15	≤30.00	PASS
		2457	24.88	≤30.00	PASS
		2462	24.61	≤30.00	PASS
11N20SISO	Ant3	2412	24.99	≤30.00	PASS
		2437	24.91	≤30.00	PASS
		2462	24.35	≤30.00	PASS
11N40SISO	Ant3	2422	24.52	≤30.00	PASS
		2437	24.81	≤30.00	PASS
		2447	23.65	≤30.00	PASS
		2452	23.35	≤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	Ant3	2412	-0.7	≤8.00	PASS
		2437	-1.29	≤8.00	PASS
		2462	-0.68	≤8.00	PASS
11G	Ant3	2412	-7.67	≤8.00	PASS
		2437	-6.98	≤8.00	PASS
		2457	-8	≤8.00	PASS
		2462	-9.56	≤8.00	PASS
11N20SISO	Ant3	2412	-7.95	≤8.00	PASS
		2437	-7.71	≤8.00	PASS
		2462	-9.02	≤8.00	PASS
11N40SISO	Ant3	2422	-13.14	≤8.00	PASS
		2437	-11.02	≤8.00	PASS
		2447	-13.74	≤8.00	PASS
		2452	-15.34	≤8.00	PASS



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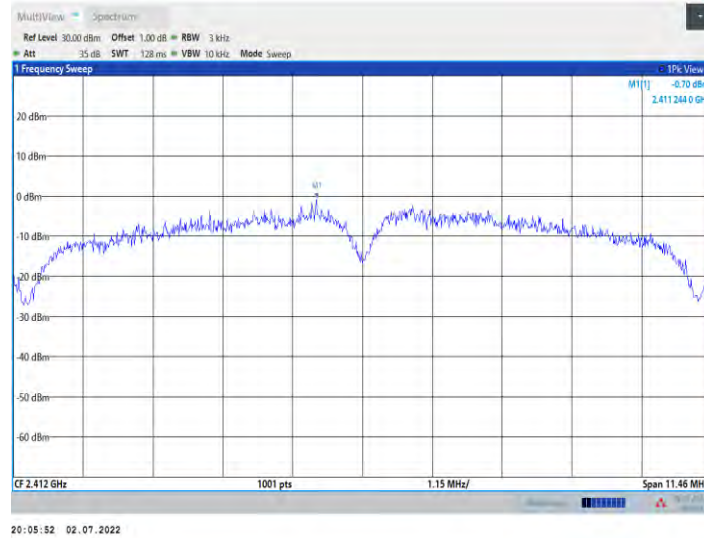
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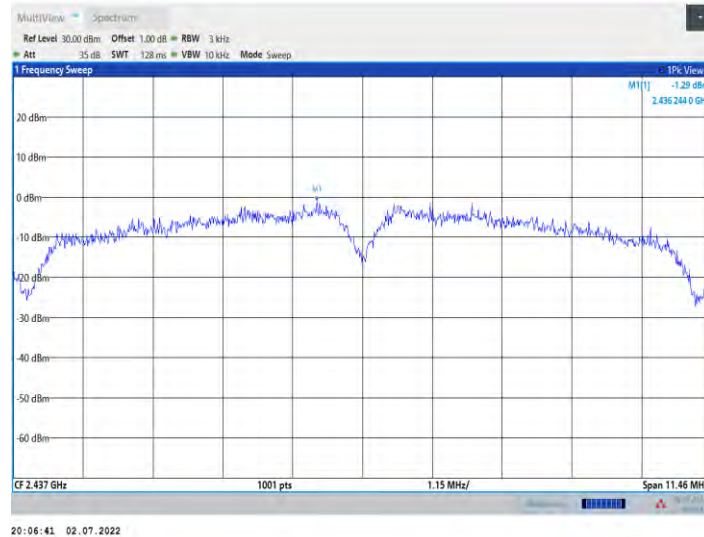
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Test Graphs

11B_Ant3_2412



11B_Ant3_2437



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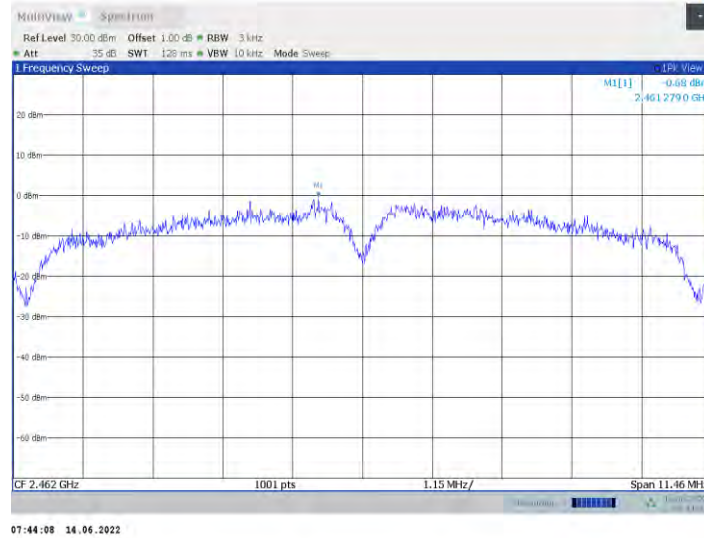
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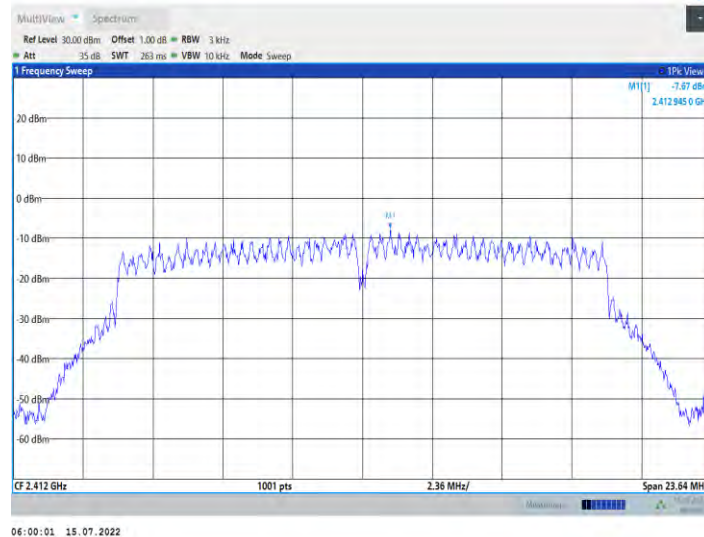
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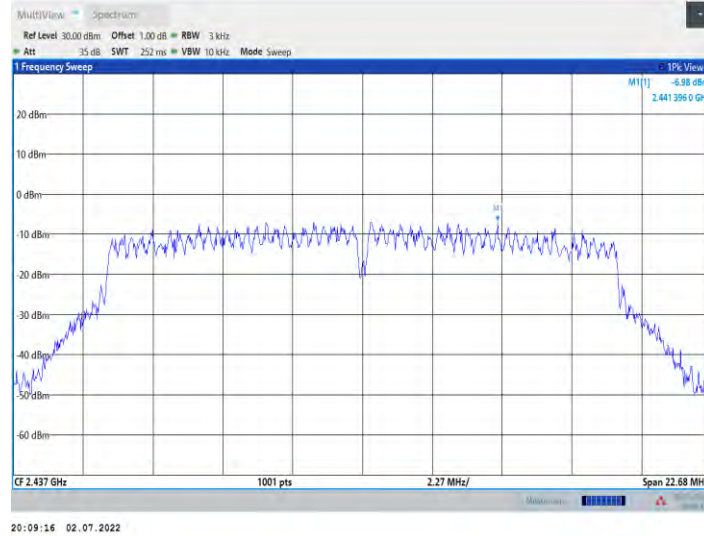
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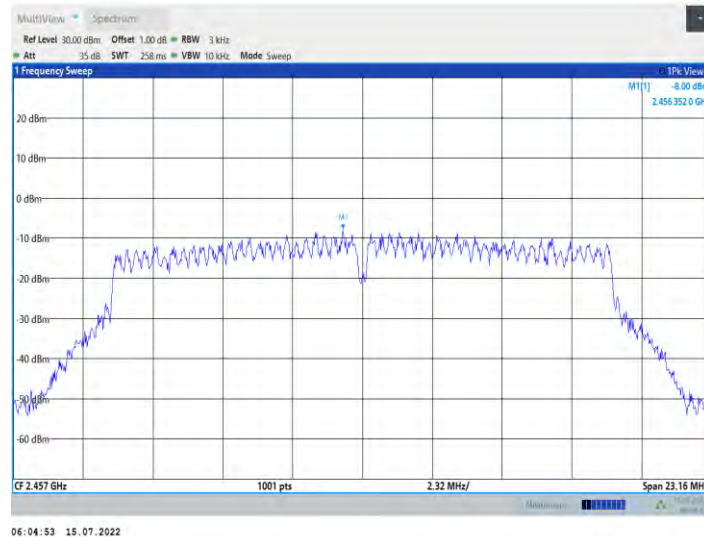
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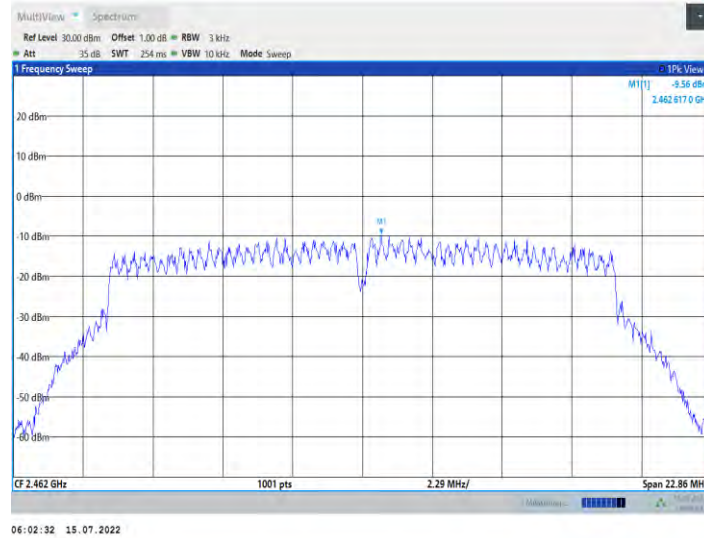
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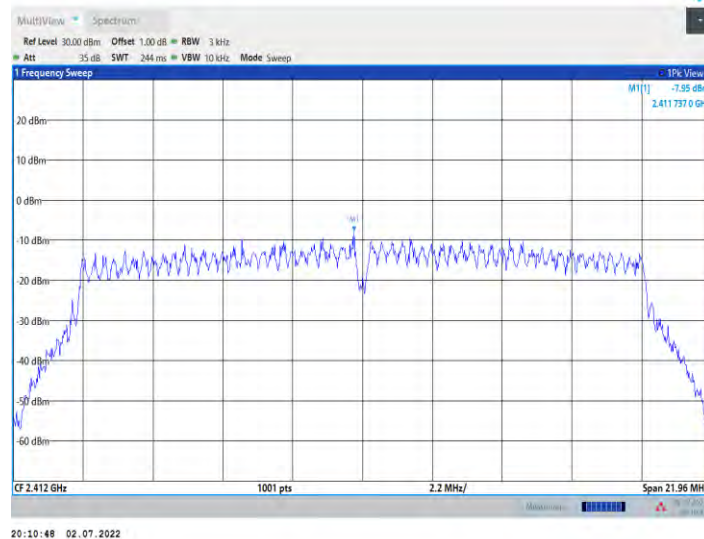
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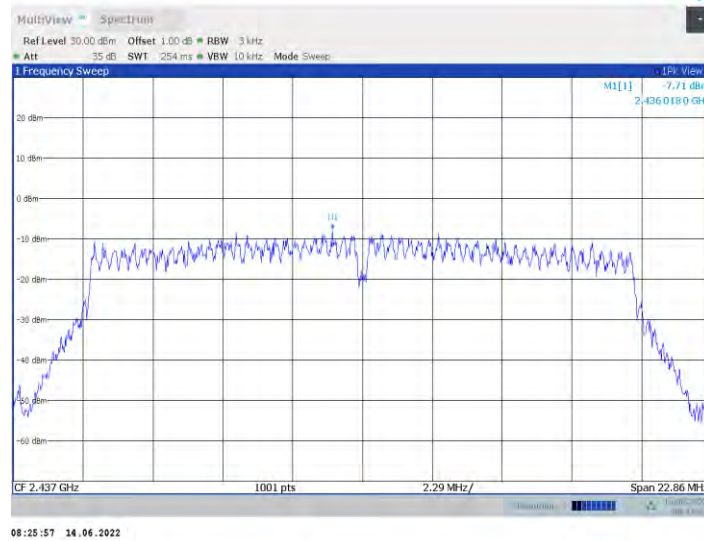
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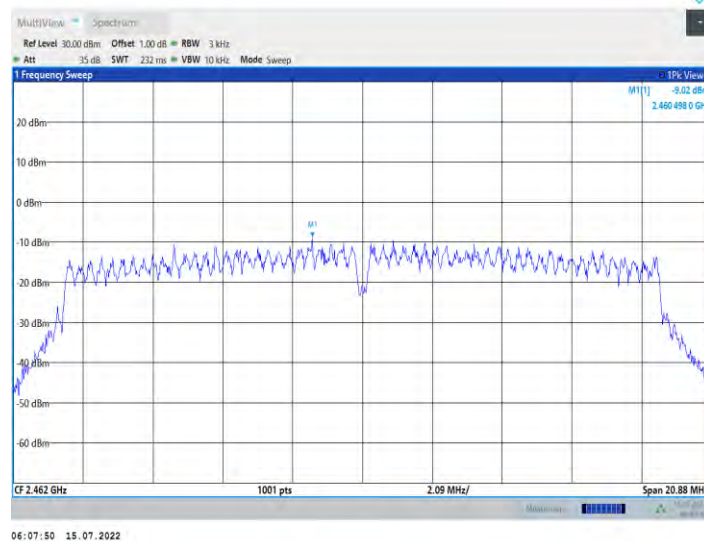
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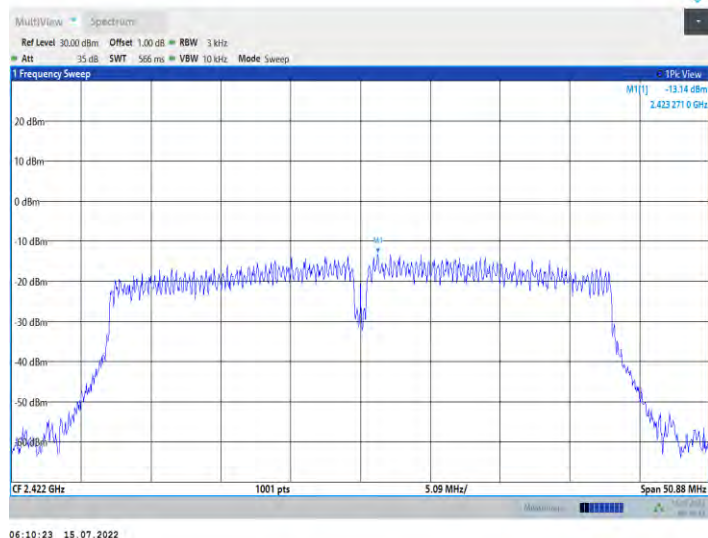
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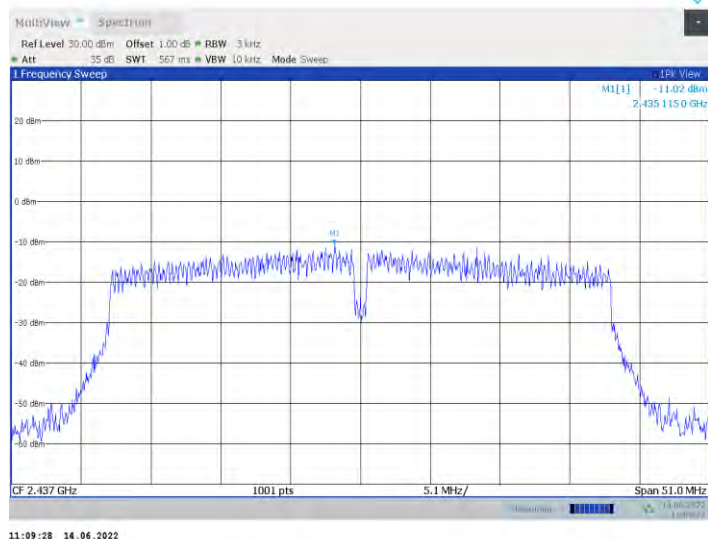
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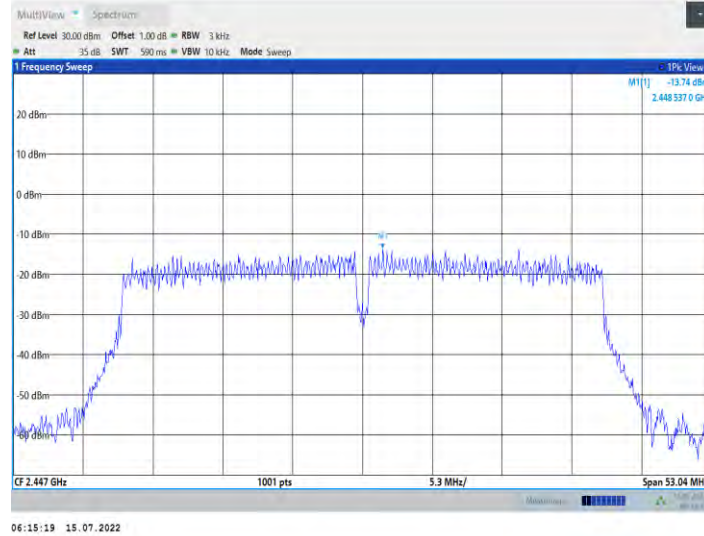
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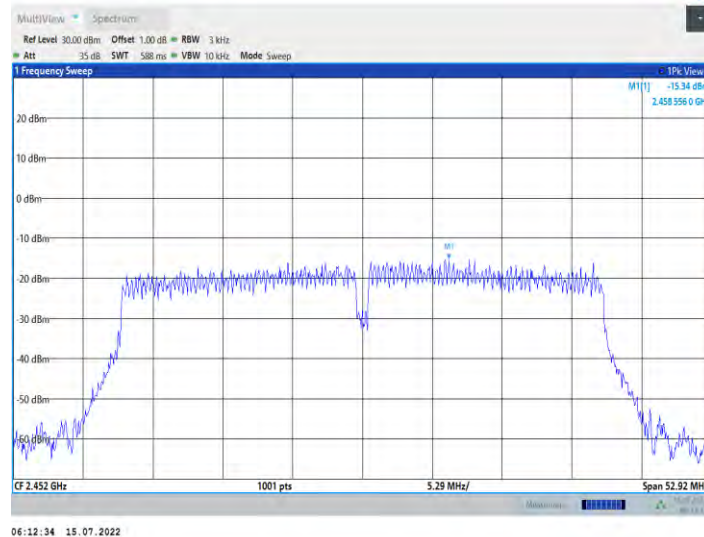
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11N40SISO_Ant3_2447



11N40SISO_Ant3_2452



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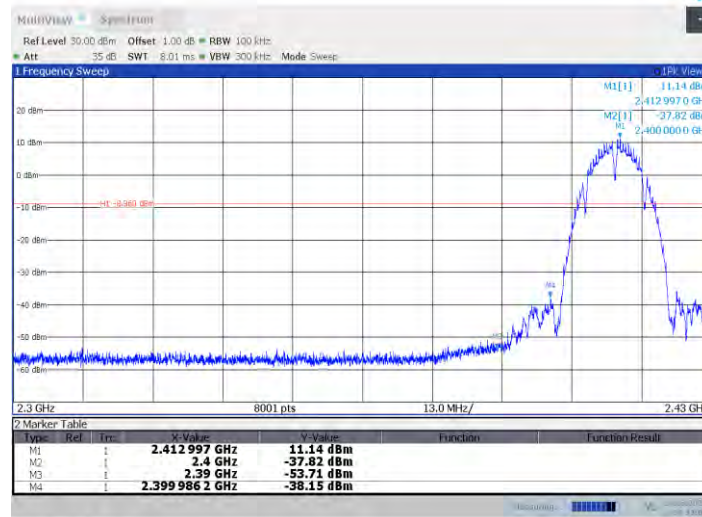
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Band edge measurements

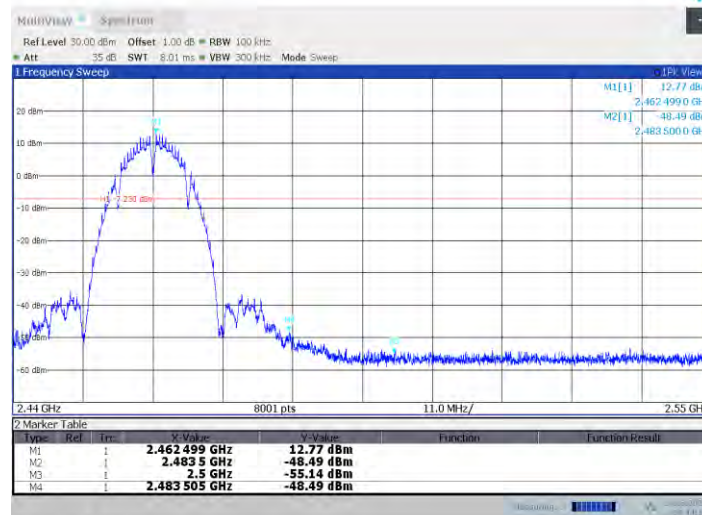
Test Graphs

11B_Ant3_Low_2412



07:32:01 14.06.2022

11B_Ant3_High_2462



07:44:14 14.06.2022



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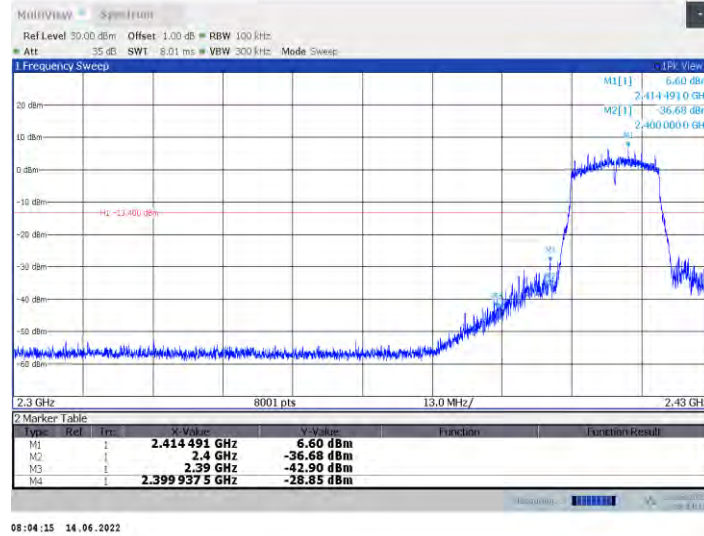
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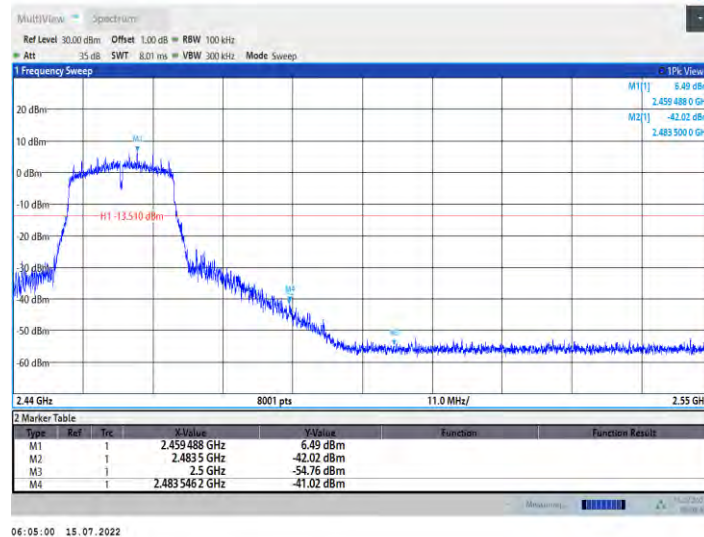
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11G_Ant3_Low_2412



11G_Ant3_High_2457



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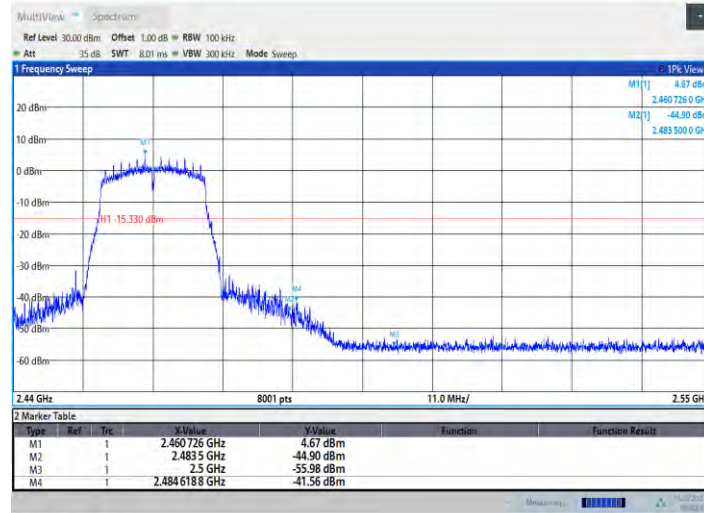
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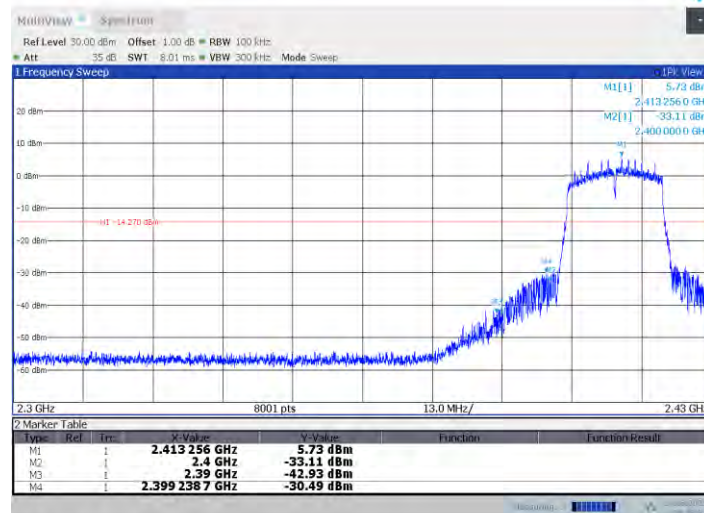
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11G_Ant3_High_2462



06:02:39 15.07.2022

11N20SISO_Ant3_Low_2412



08:23:53 14.06.2022



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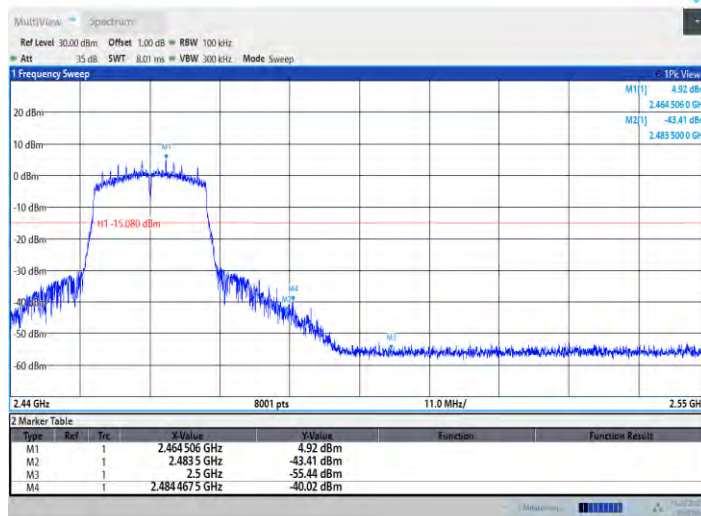
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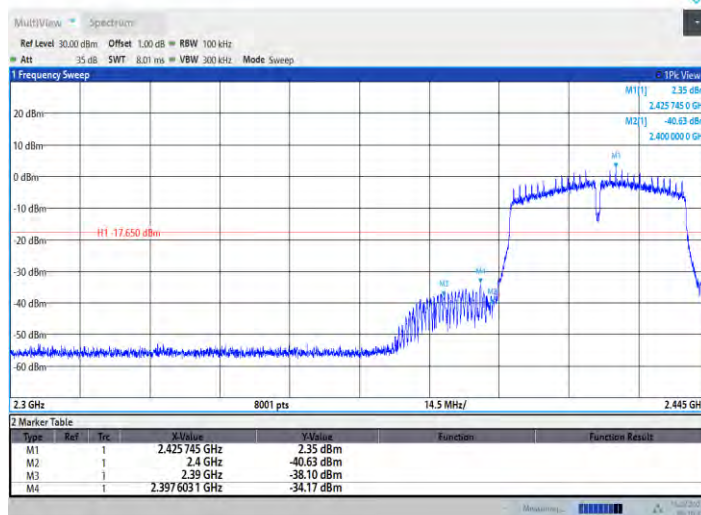
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11N20SISO_Ant3_High_2462



06:07:56 15.07.2022

11N40SISO_Ant3_Low_2422



06:10:39 15.07.2022



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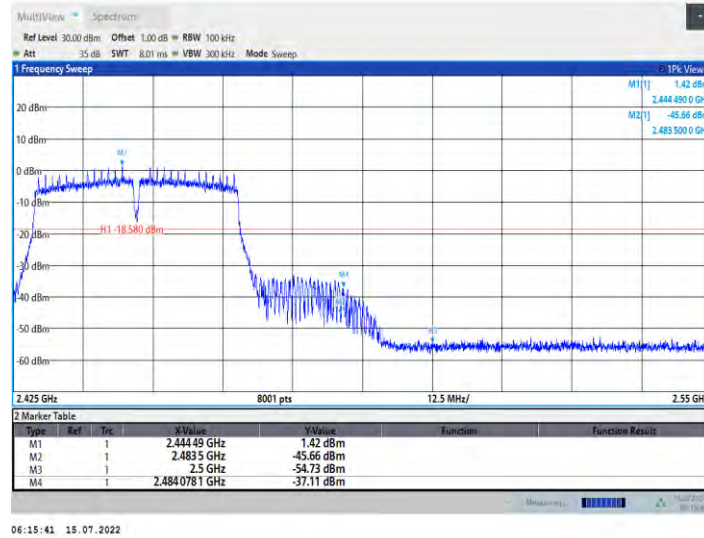
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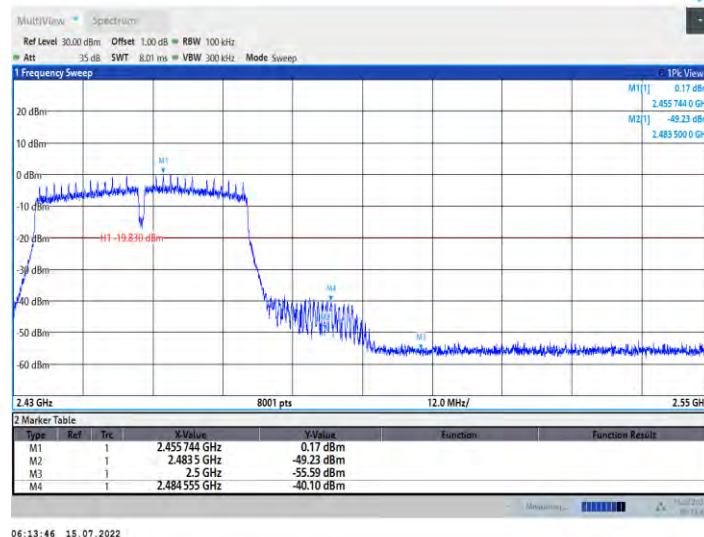
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11N40SISO_Ant3_High_2447



06:15:41 15.07.2022

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06:13:46 15.07.2022



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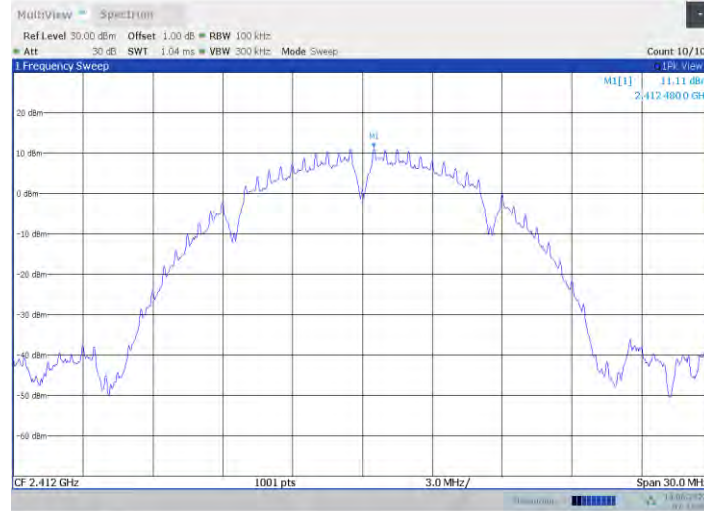
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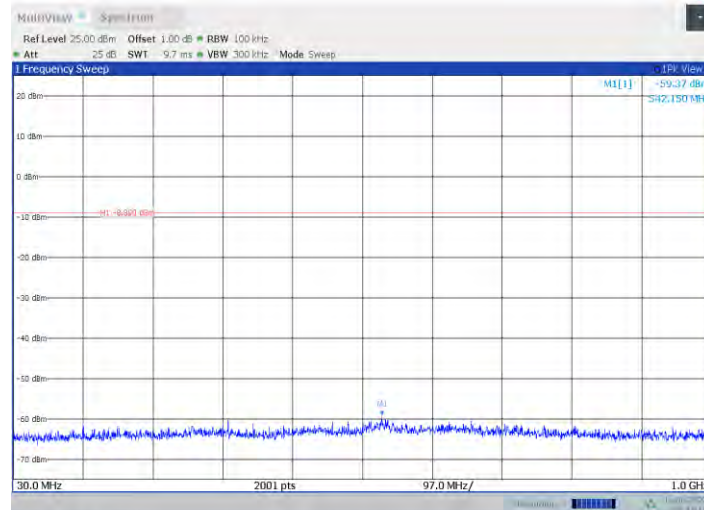
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Conducted Spurious Emission Test Graphs

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11B_Ant3_2412_30~1000



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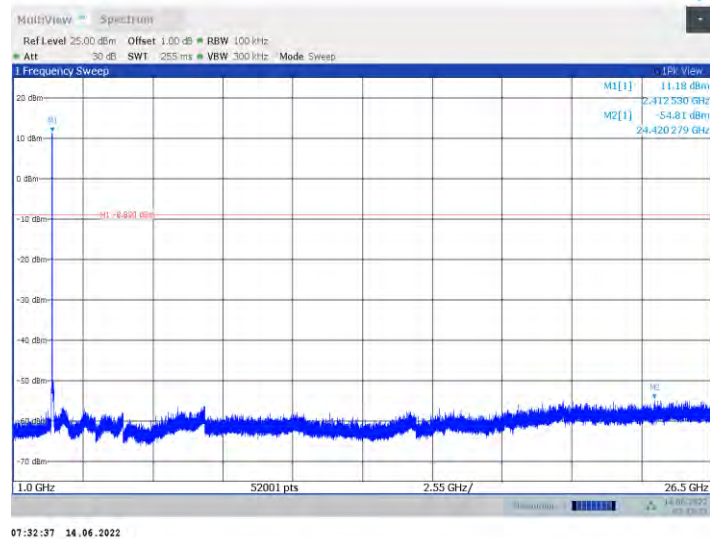
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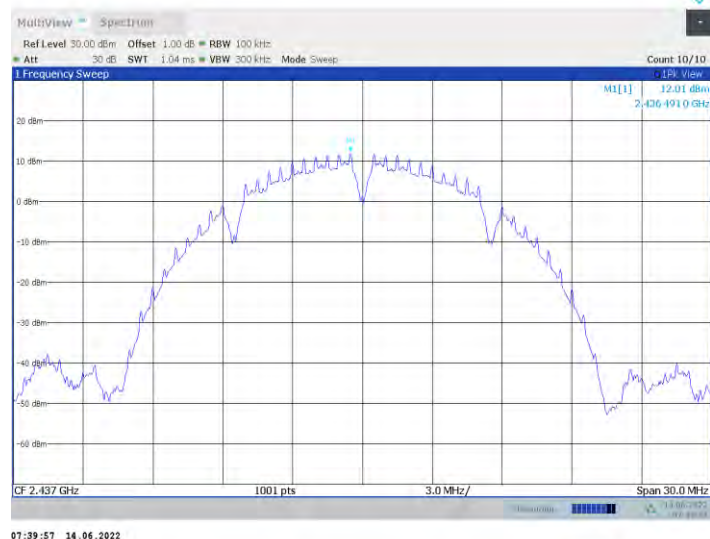
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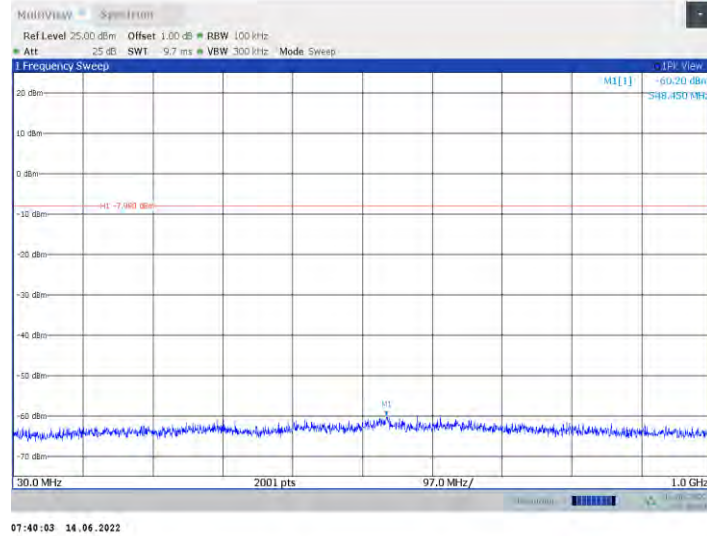
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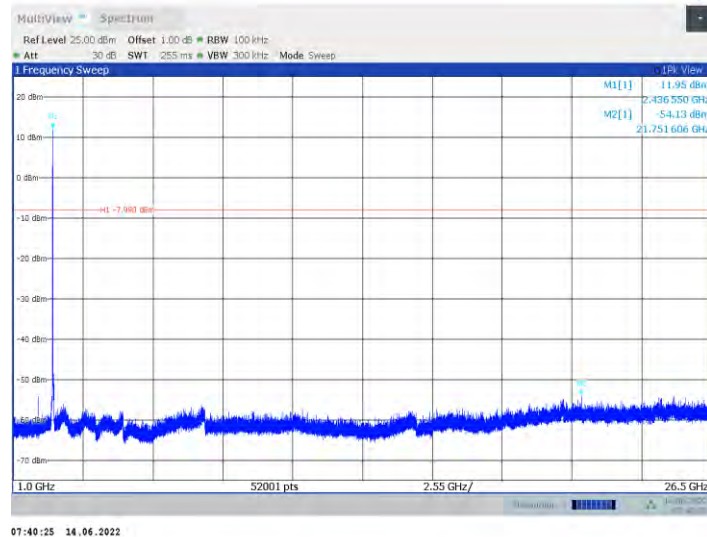
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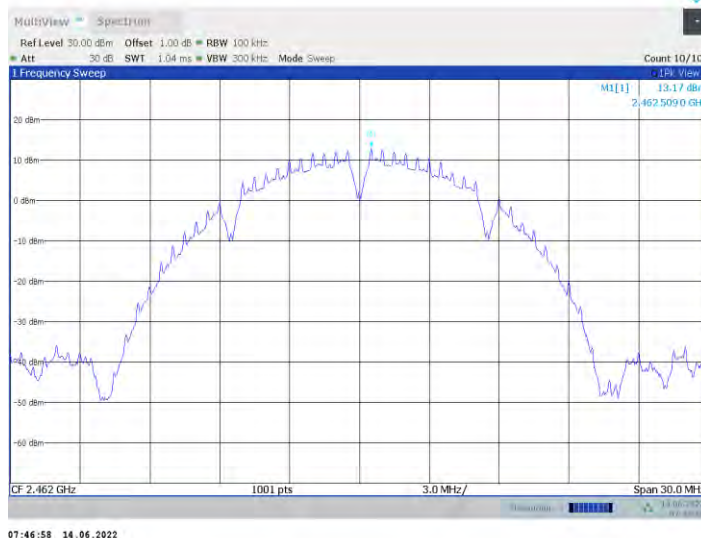
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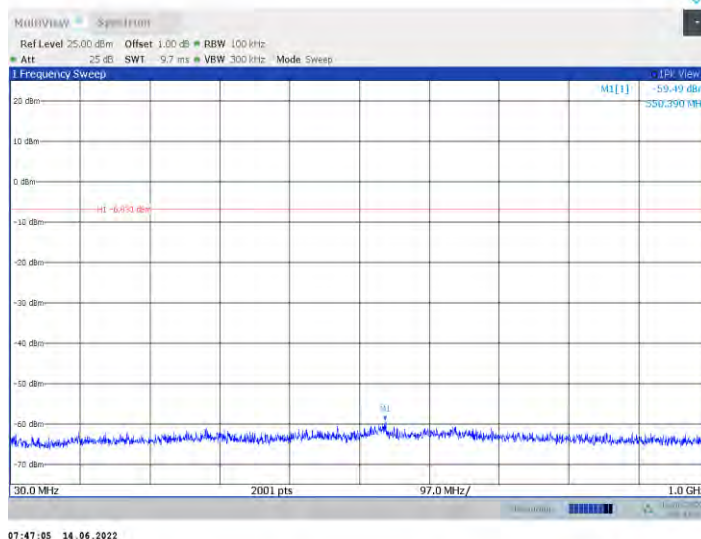
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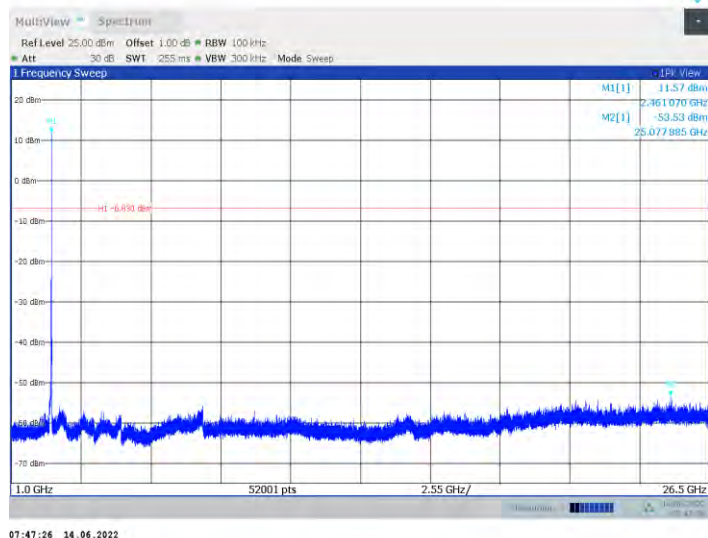
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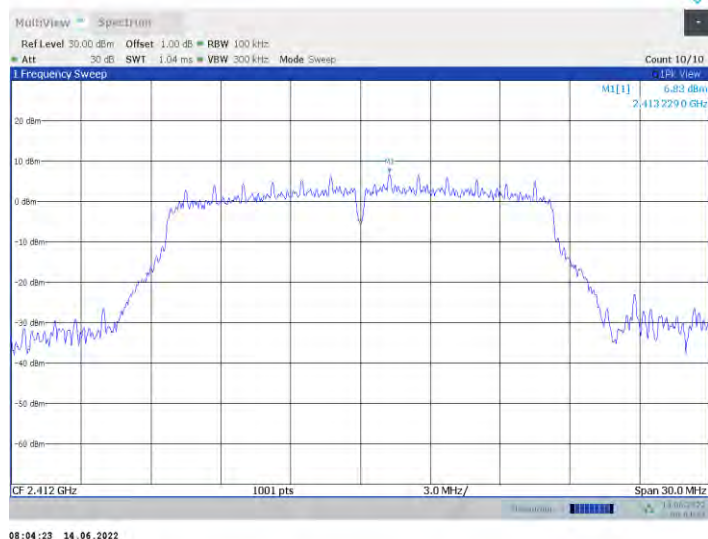
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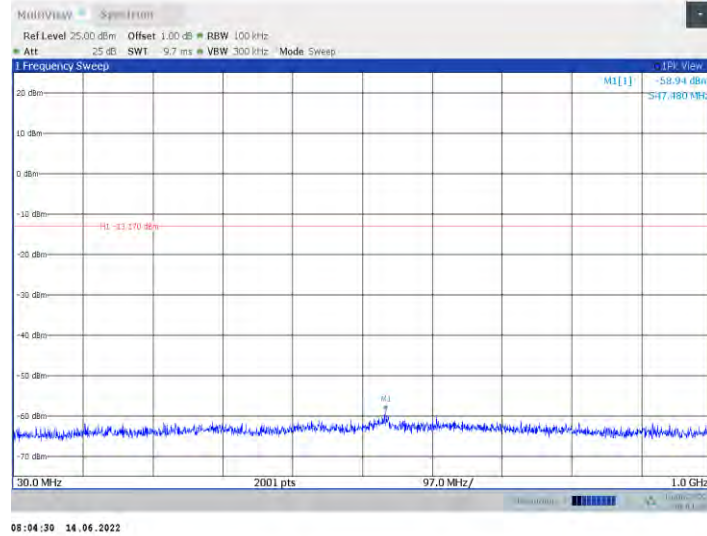
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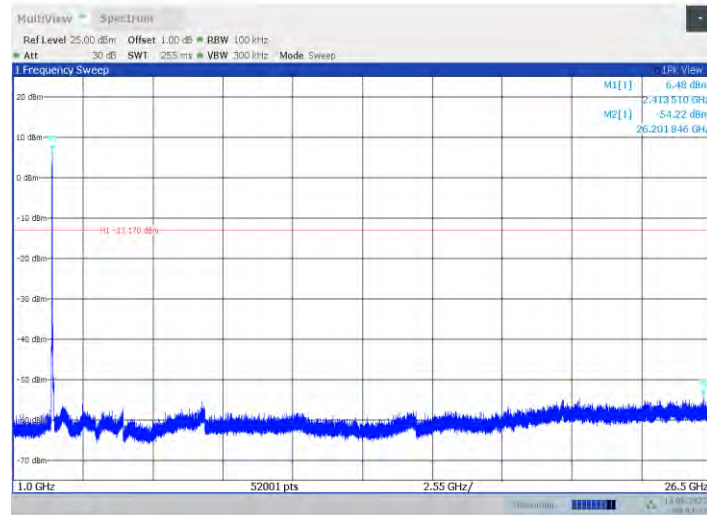
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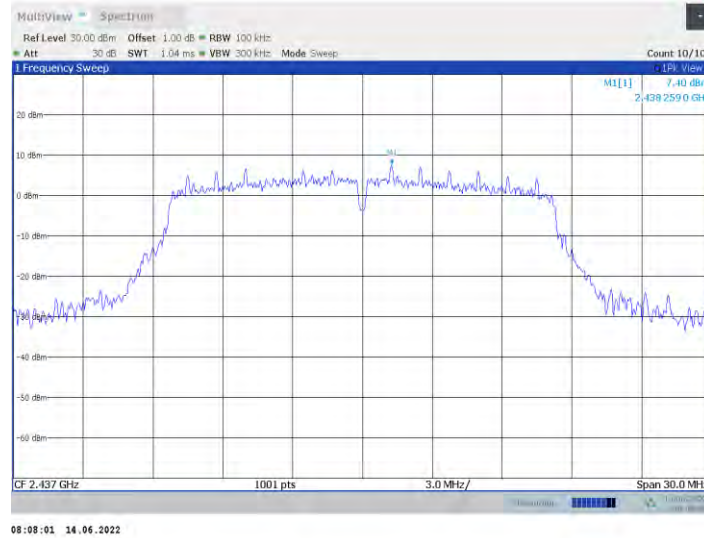
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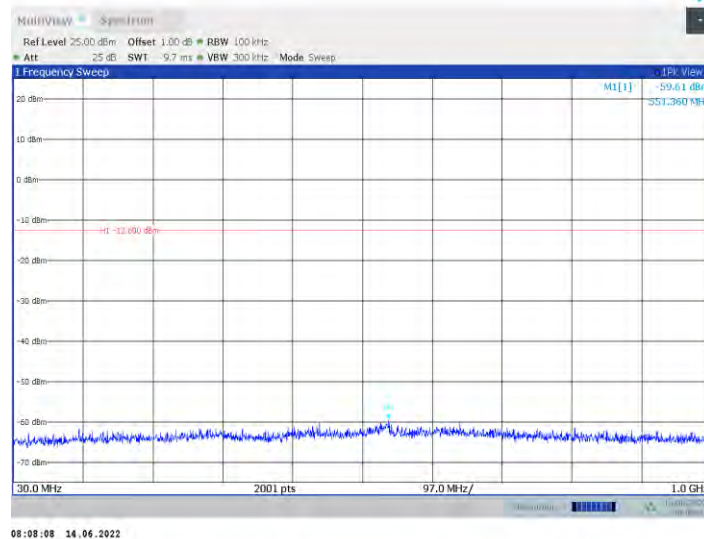
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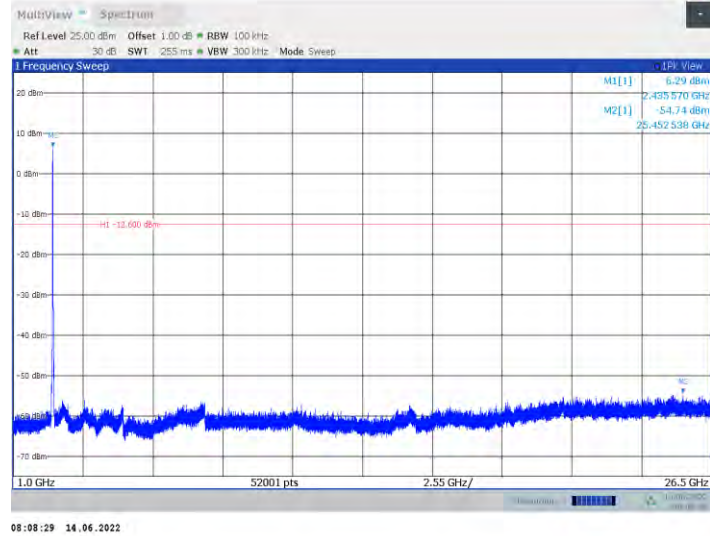
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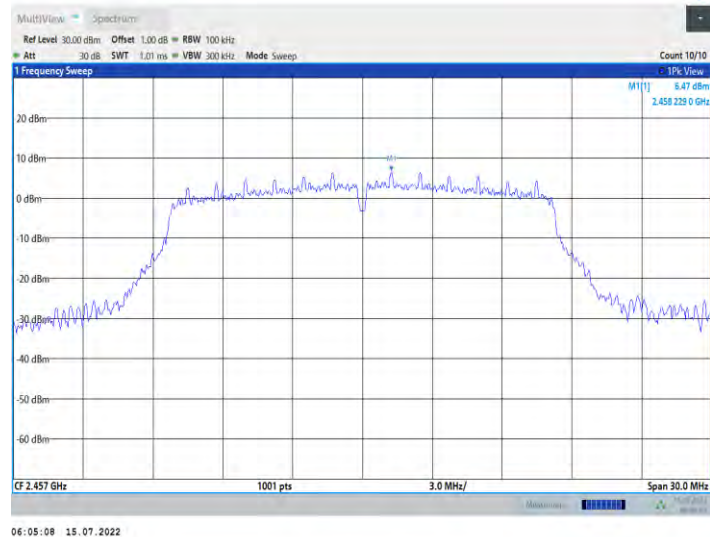
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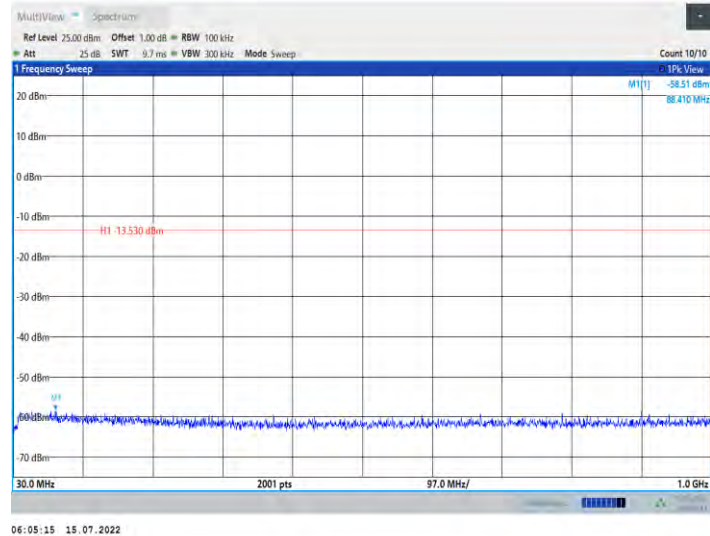
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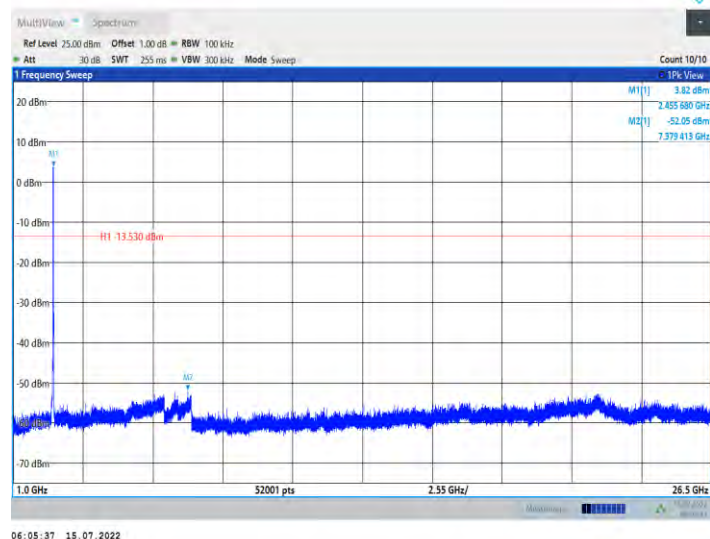
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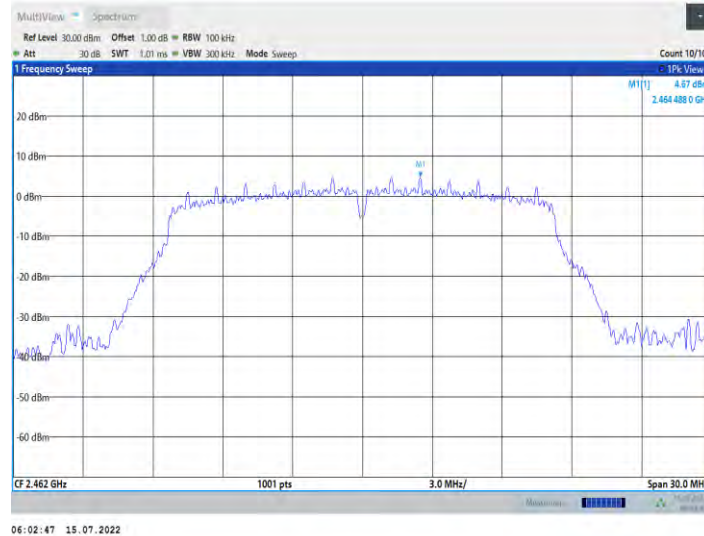
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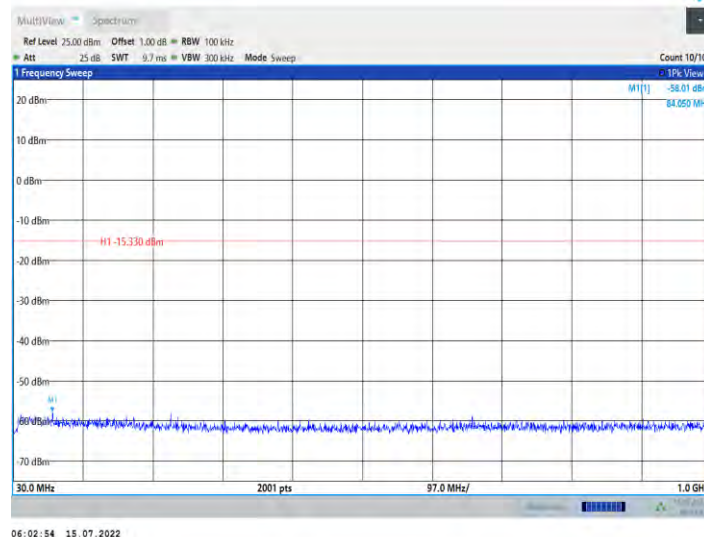
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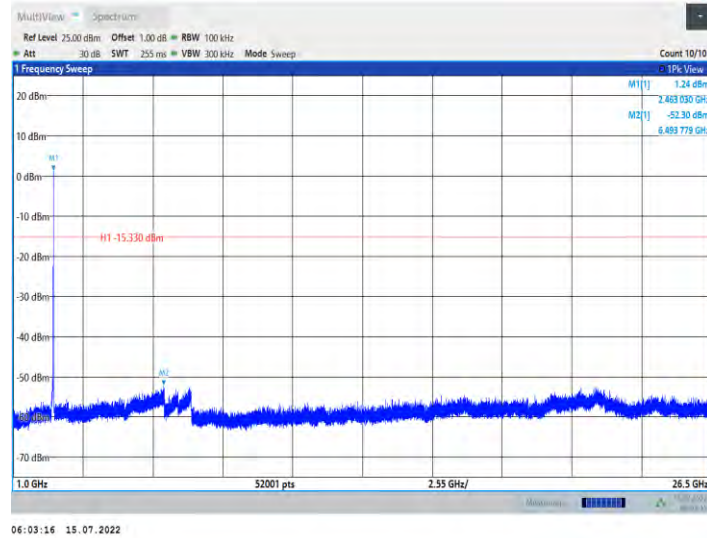
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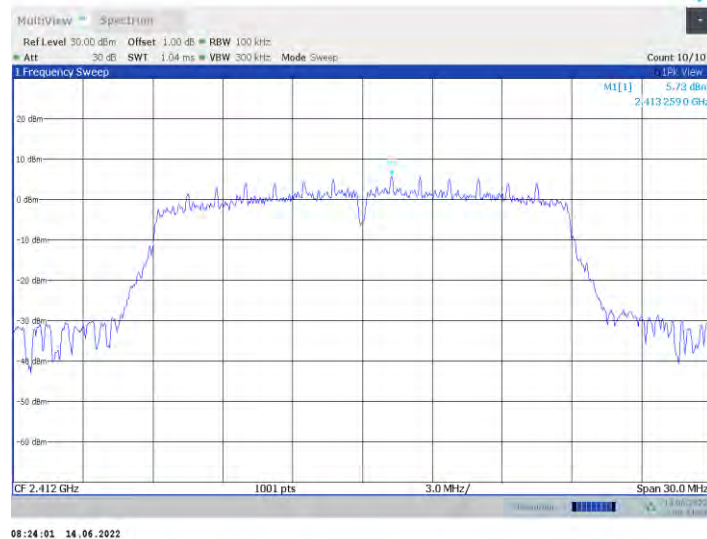
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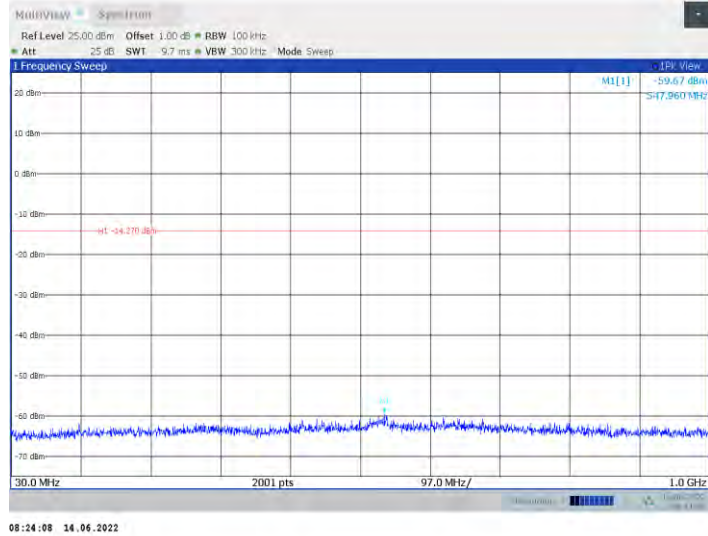
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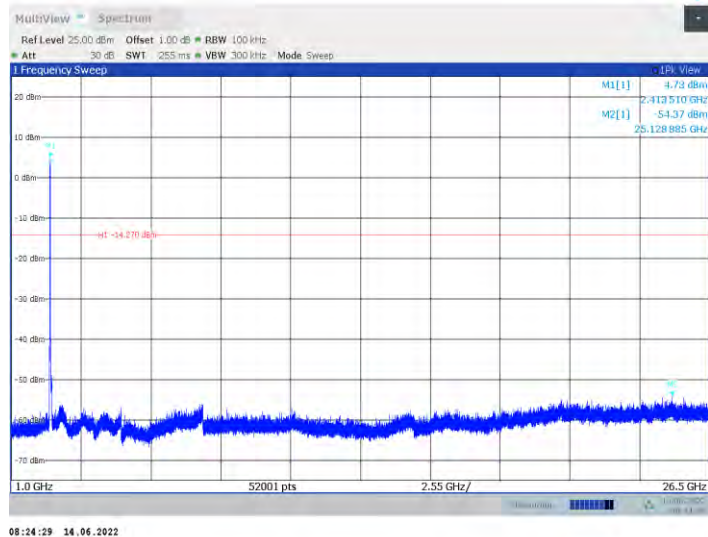
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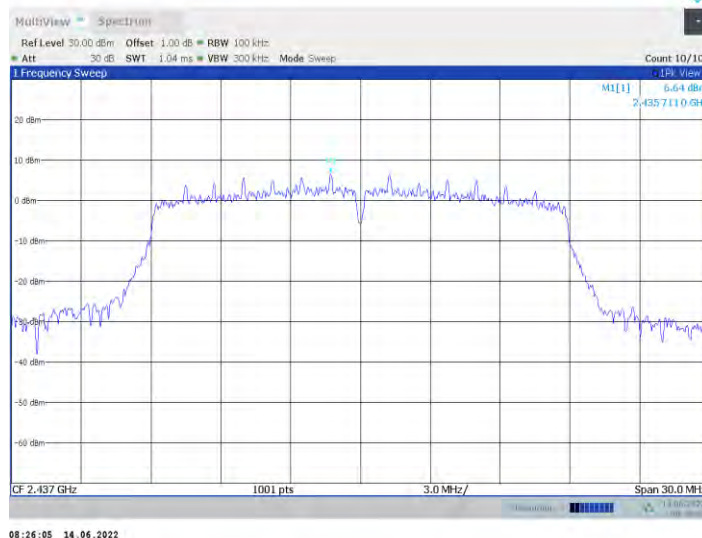
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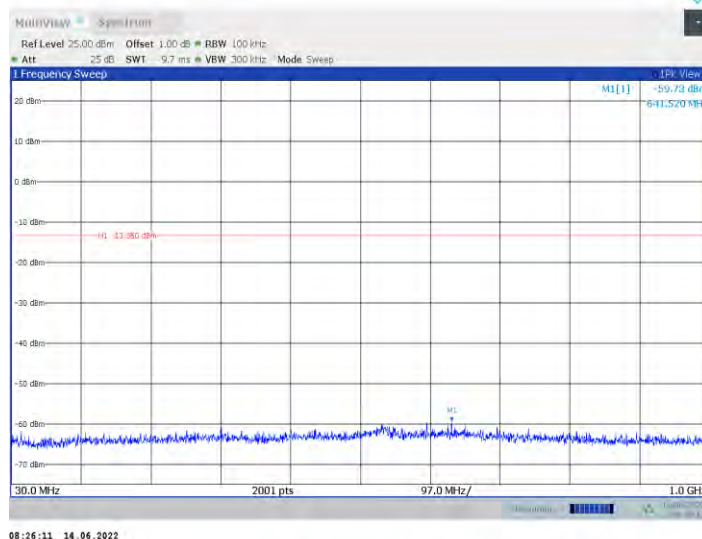
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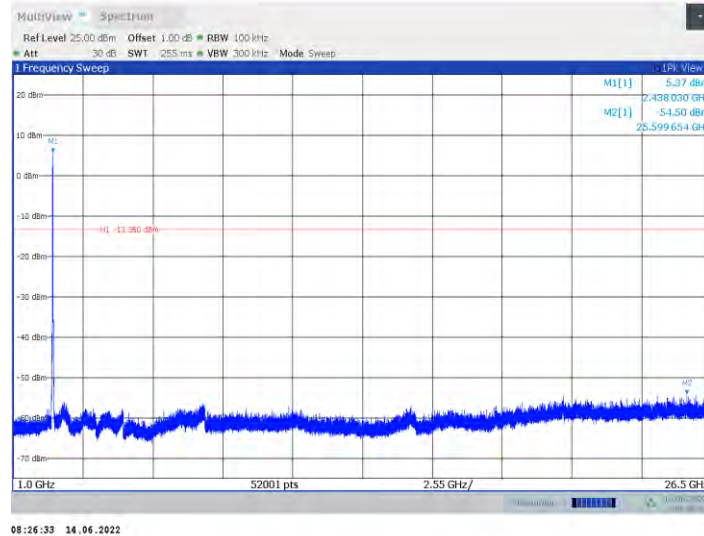
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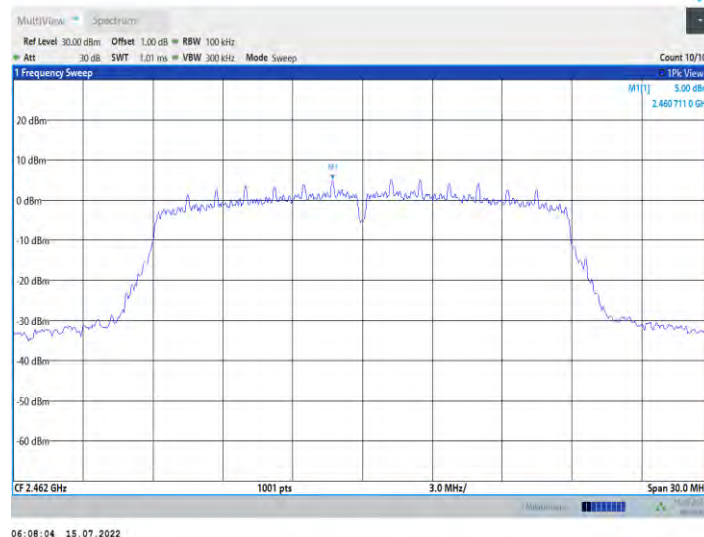
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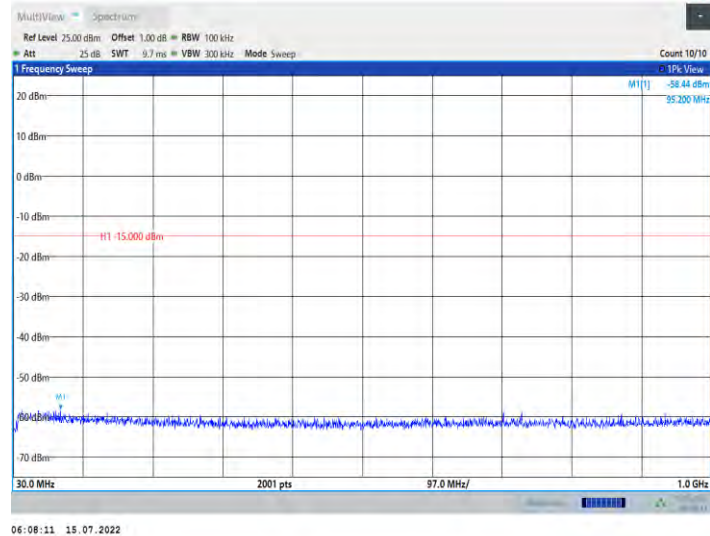
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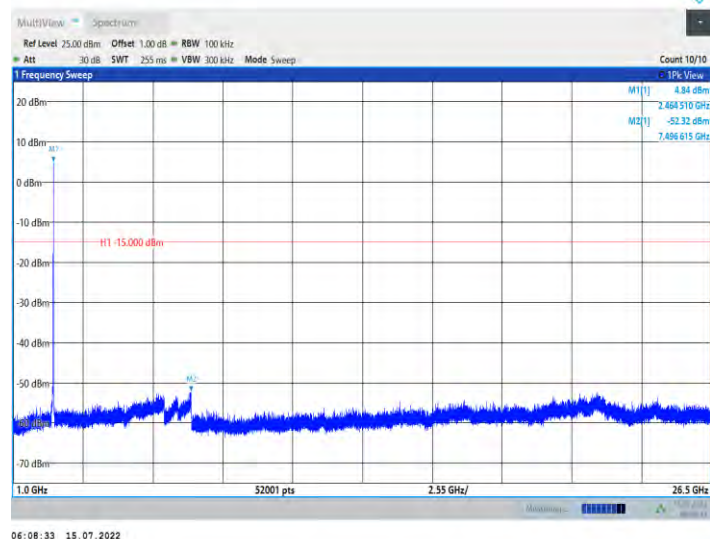
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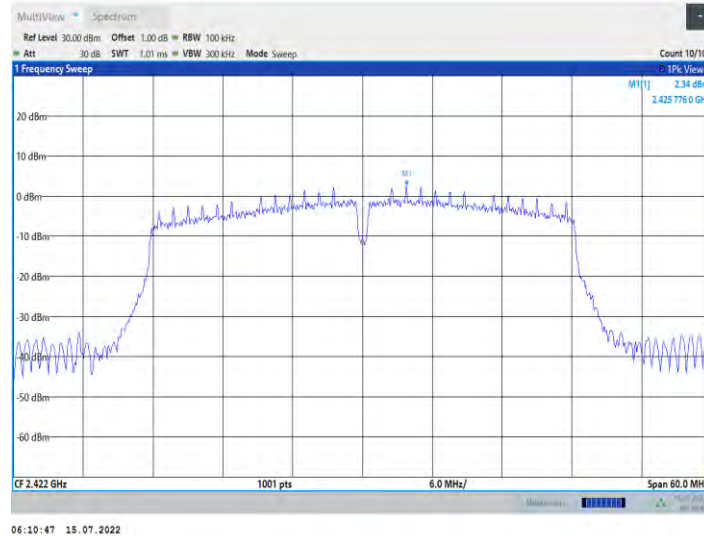
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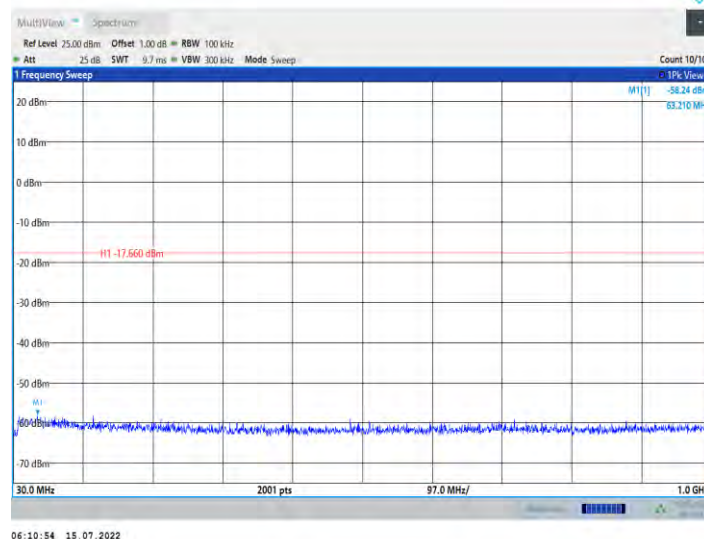
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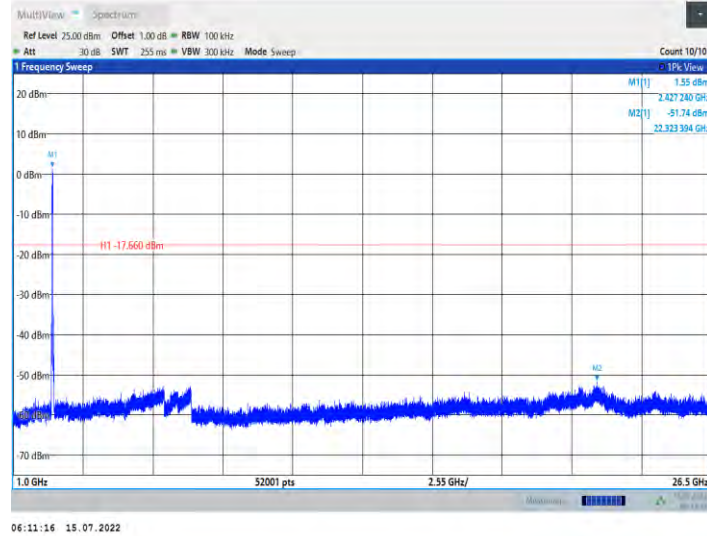
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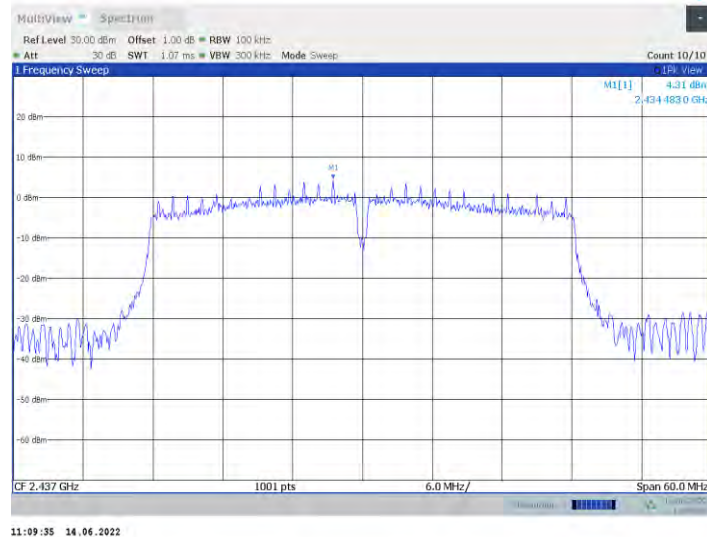
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11N40SISO_Ant3_2422_1000~26500



11N40SISO_Ant3_2437_0~Reference



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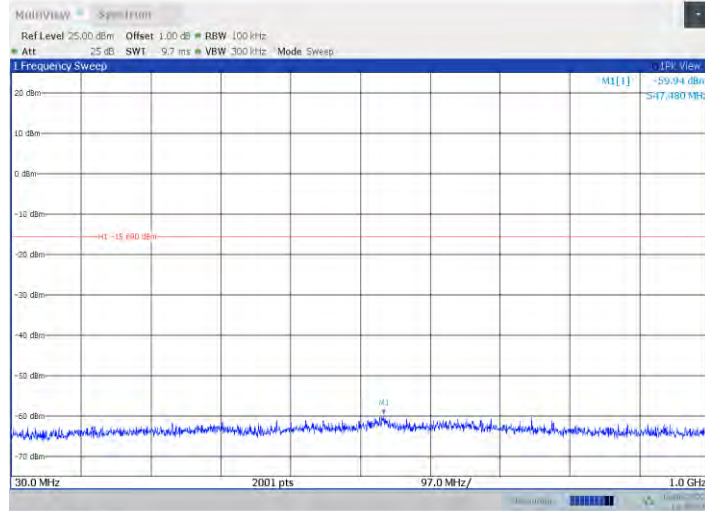
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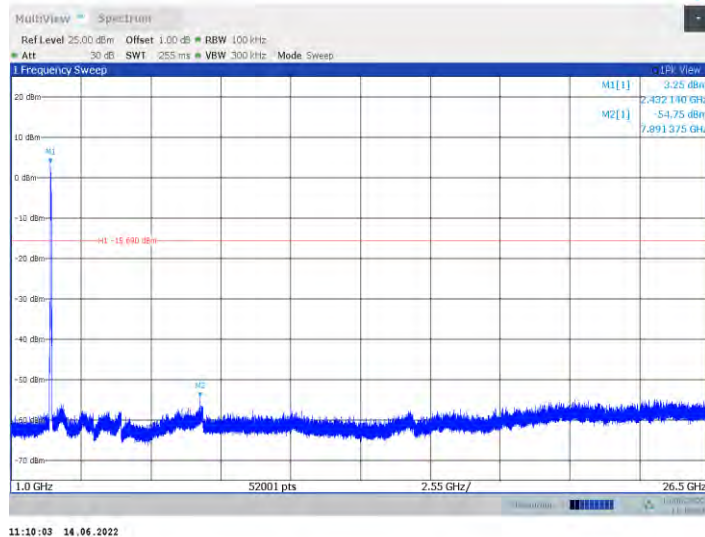
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11N40SISO_Ant3_2437_30~1000



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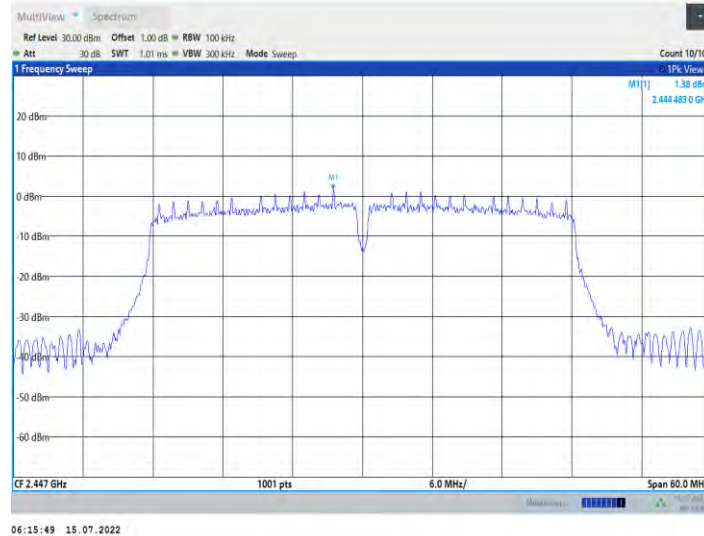
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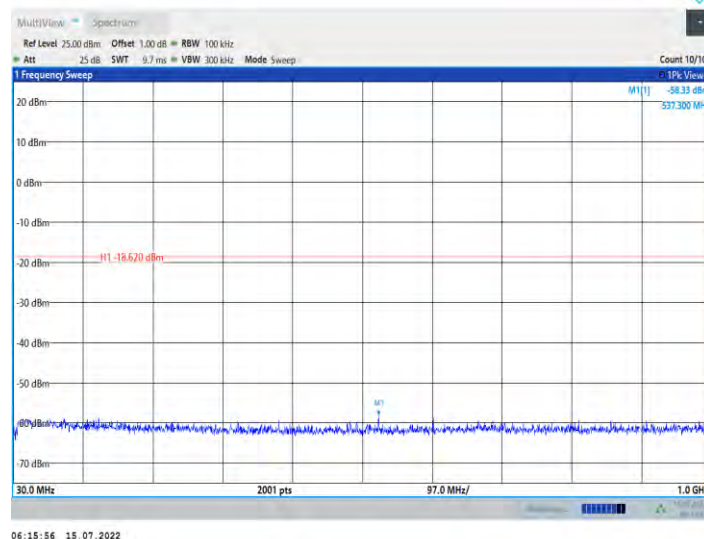
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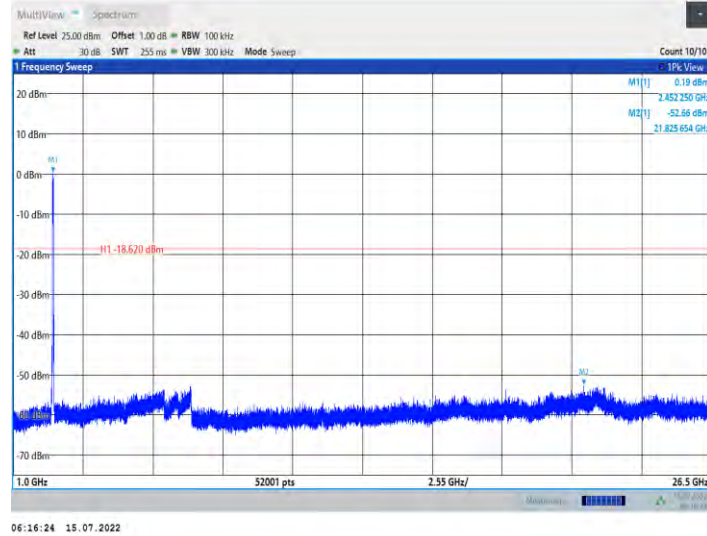
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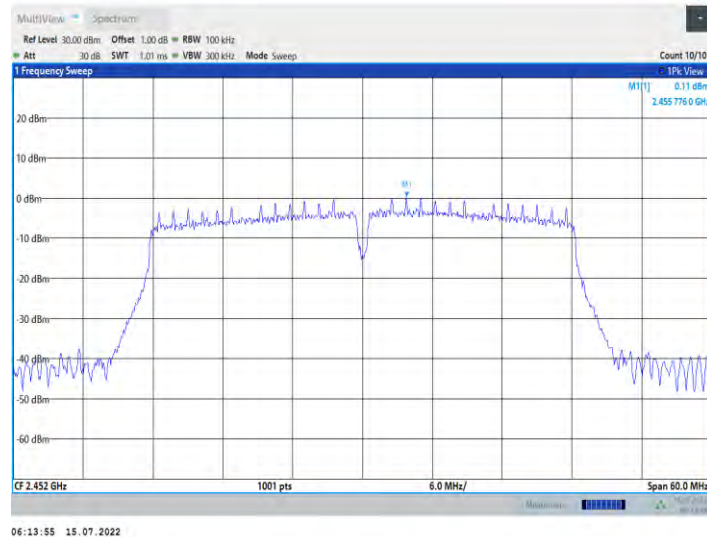
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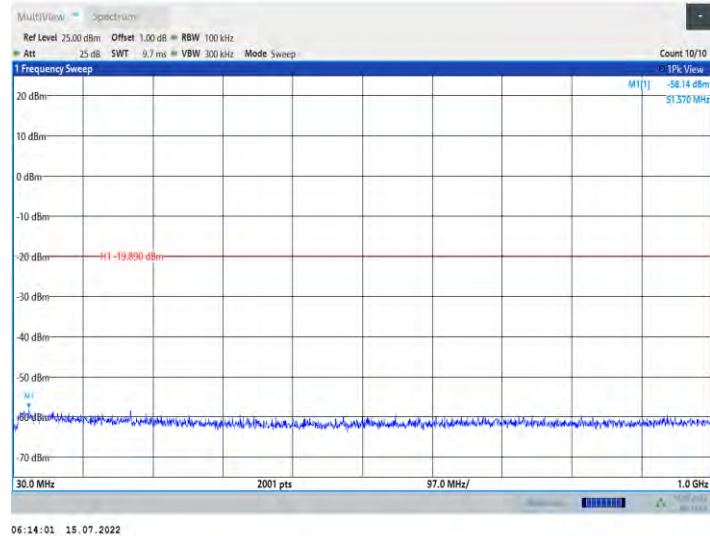
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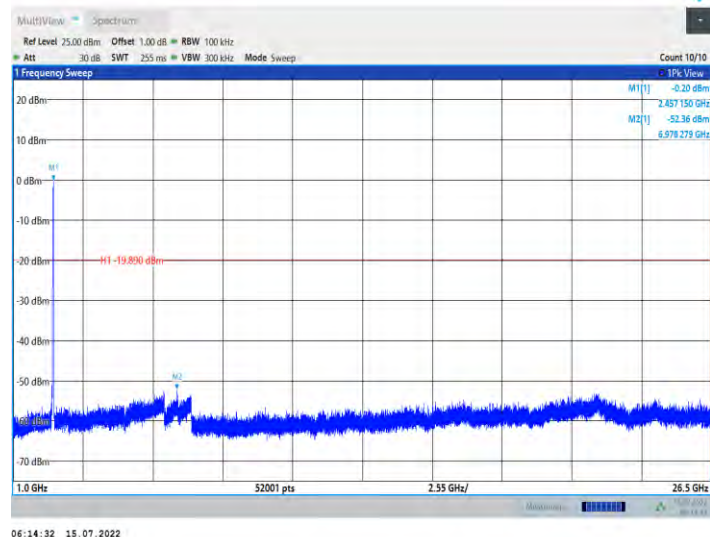
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06:14:01 15.07.2022

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06:14:32 15.07.2022



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Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11B	Ant3	2412	8.38	8.42	99.52
11G	Ant3	2412	1.39	1.44	96.53
11N20SISO	Ant3	2412	1.30	1.35	96.30
11N40SISO	Ant3	2422	0.64	0.69	92.75



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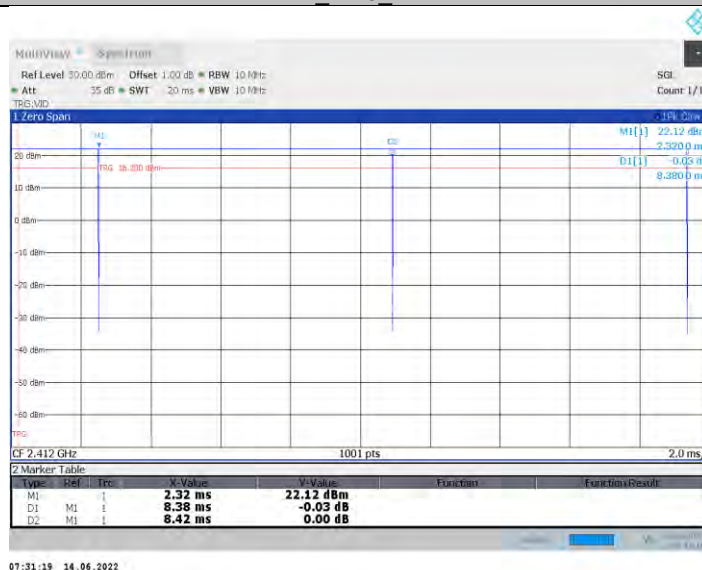
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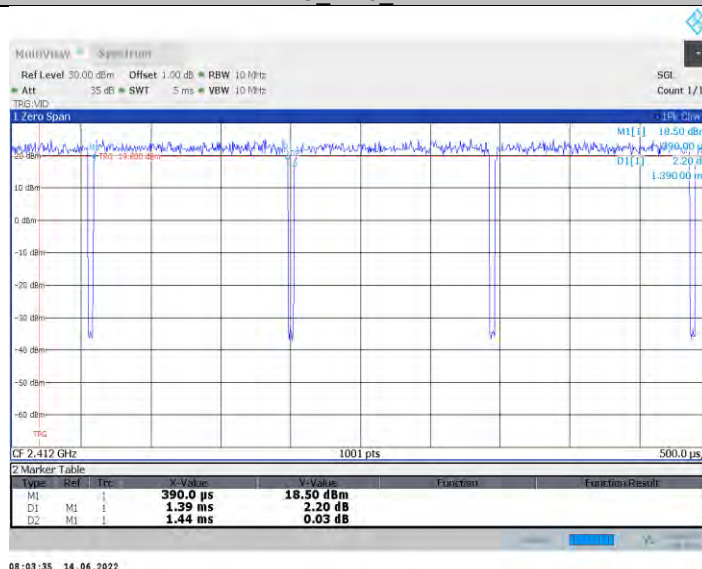
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Test Graphs

11B_Ant3_2412



11G_Ant3_2412



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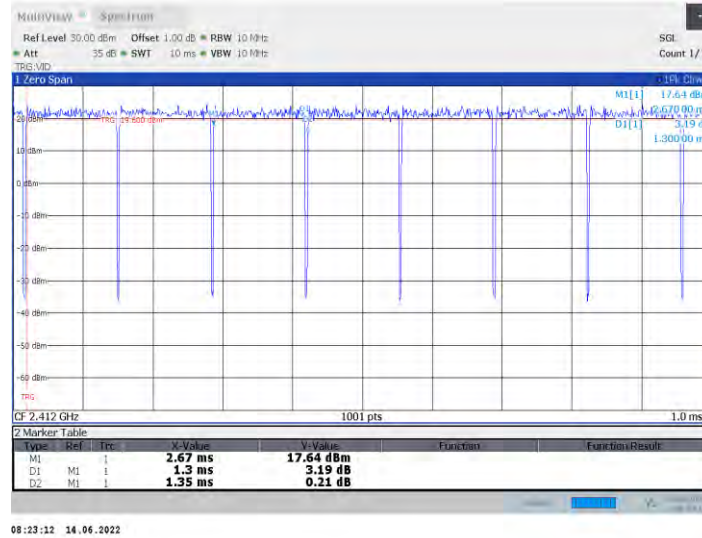
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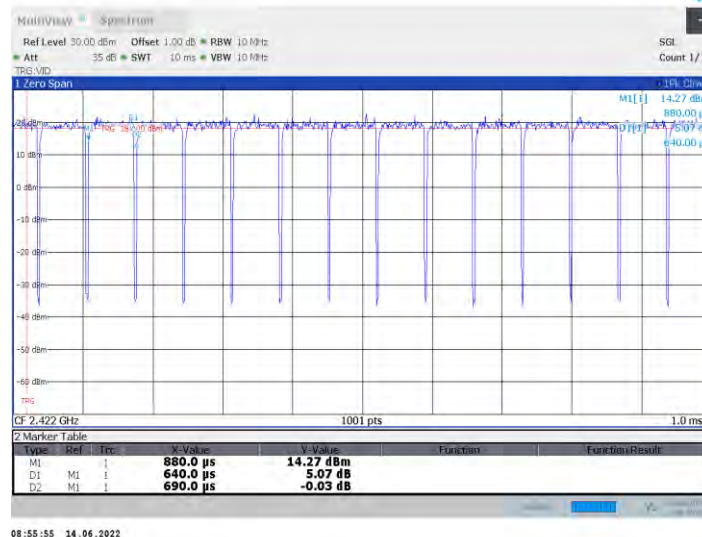
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08:23:12 14.06.2022

11N40SISO_Ant3_2422



08:55:55 14.06.2022



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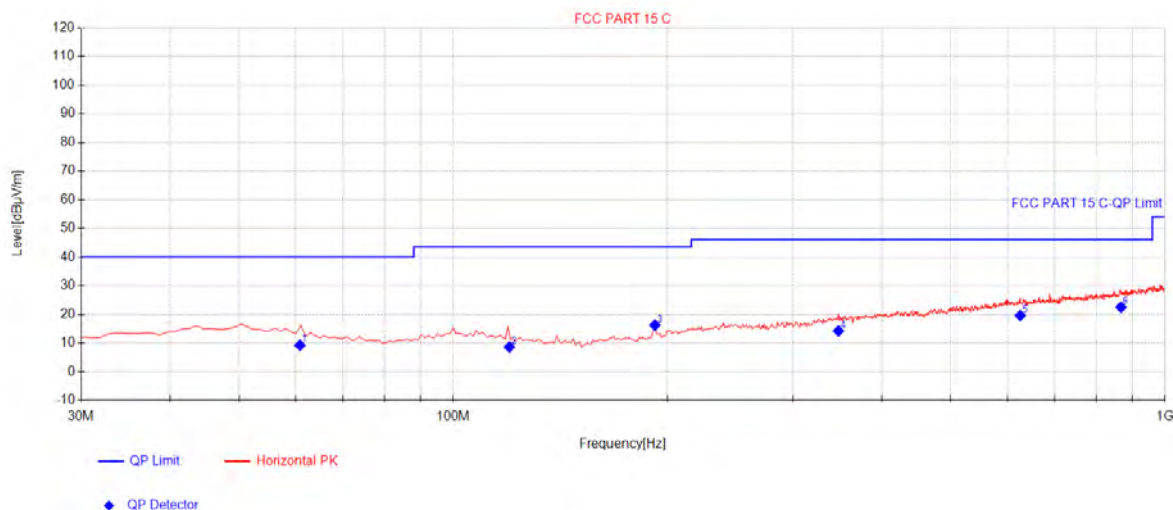
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Radiated Spurious Emissions

Radiated emission below 1GHz

Worst case Mode: 11g_Channel 01



Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	60.8846	25.75	-27.64	11.11	9.22	40.00	30.78	217	195	Horizontal
2	119.9217	26.90	-27.69	9.39	8.60	43.50	34.90	112	214	Horizontal
3	191.9770	33.67	-27.20	9.74	16.21	43.50	27.29	193	133	Horizontal
4	347.6936	25.22	-25.63	14.61	14.20	46.00	31.80	113	250	Horizontal
5	625.9496	24.64	-24.30	19.20	19.54	46.00	26.46	180	163	Horizontal
6	867.3758	24.52	-23.48	21.44	22.48	46.00	23.52	189	165	Horizontal



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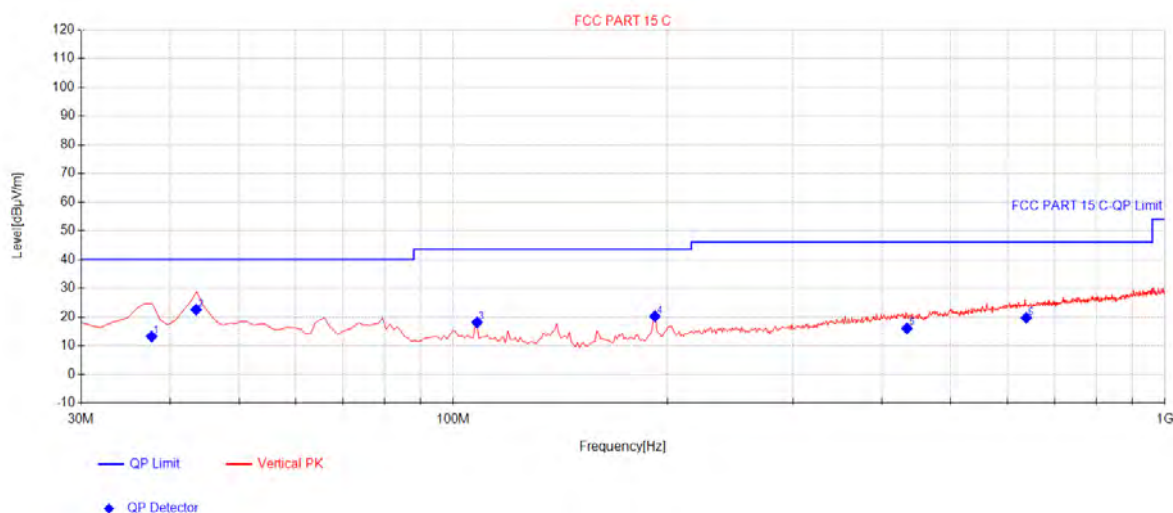
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Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	37.6896	29.88	-28.19	11.47	13.16	40.00	26.84	107	100	Vertical
2	43.5248	37.75	-28.05	12.82	22.52	40.00	17.48	120	299	Vertical
3	108.0034	34.75	-27.41	10.72	18.06	43.50	25.44	106	96	Vertical
4	191.9909	37.66	-27.20	9.74	20.20	43.50	23.30	189	15	Vertical
5	433.9680	24.99	-25.06	16.07	16.00	46.00	30.00	205	301	Vertical
6	638.3062	24.59	-24.19	19.24	19.64	46.00	26.36	263	245	Vertical



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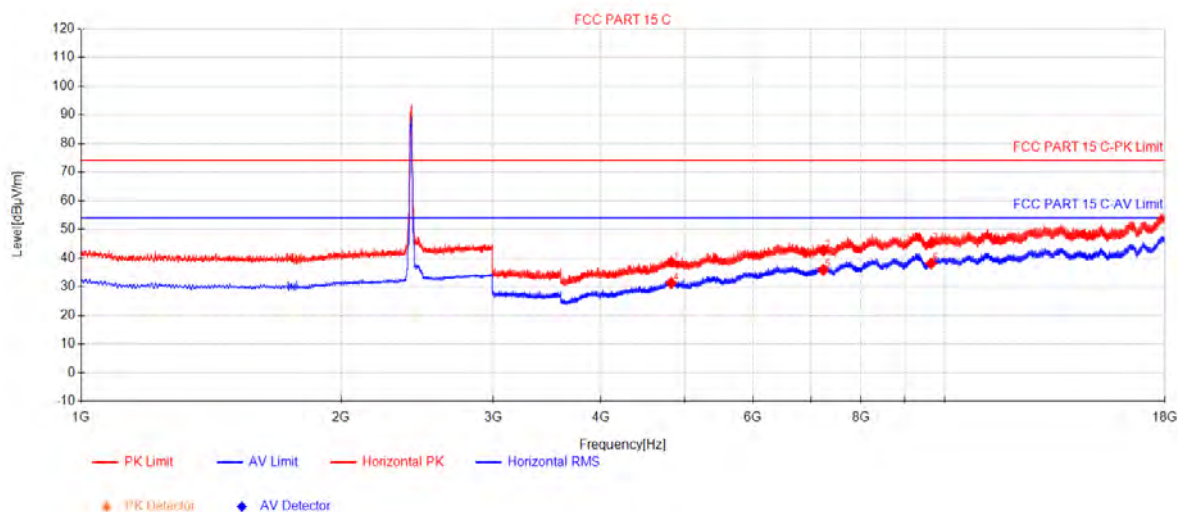
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Transmitter emission Above 1GHz

802.11b_Channel 01



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824	50.92	32.18	-44.55	38.55	74.00	35.45	142	10	Horizontal
2	7236	48.27	36.34	-42.08	42.53	74.00	31.47	286	261	Horizontal
3	9648	44.39	38.54	-37.82	45.10	74.00	28.90	263	261	Horizontal
4	4824	43.62	32.18	-44.55	31.25	54.00	22.75	254	2	Horizontal
5	7236	41.56	36.34	-42.08	35.82	54.00	18.18	177	31	Horizontal
6	9648	37.41	38.54	-37.82	38.12	54.00	15.88	175	237	Horizontal



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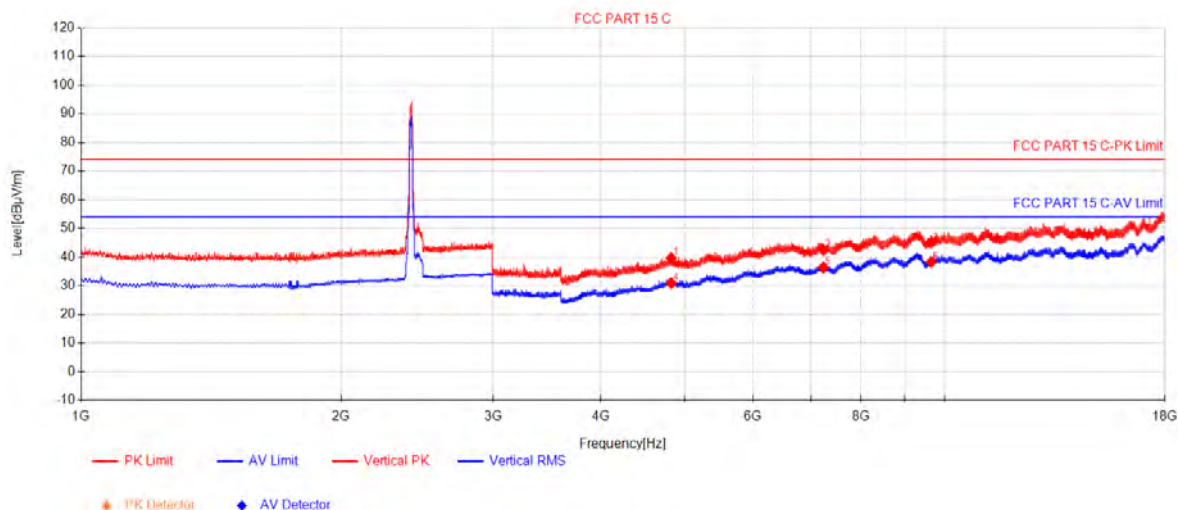
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Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824	52.00	32.18	-44.55	39.63	74.00	34.37	176	332	Vertical
2	7236	48.12	36.34	-42.08	42.38	74.00	31.62	263	54	Vertical
3	9648	44.24	38.54	-37.82	44.95	74.00	29.05	284	357	Vertical
4	4824	43.24	32.18	-44.55	30.87	54.00	23.13	177	257	Vertical
5	7236	42.06	36.34	-42.08	36.32	54.00	17.68	156	236	Vertical
6	9648	37.52	38.54	-37.82	38.23	54.00	15.77	263	8	Vertical



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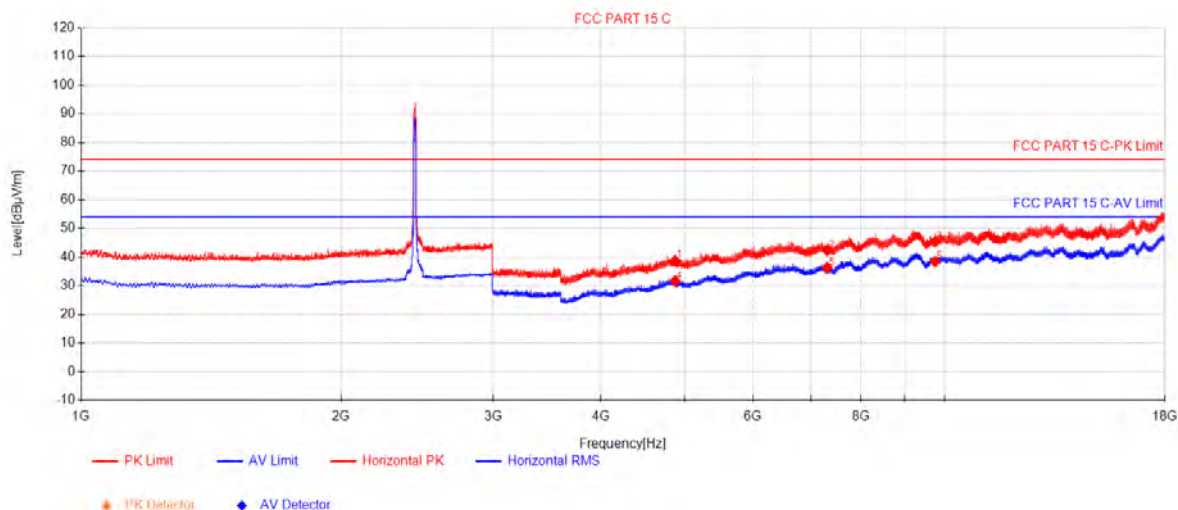
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Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874	51.16	32.30	-44.77	38.69	74.00	35.31	186	231	Horizontal
2	7311	47.72	36.39	-41.78	42.32	74.00	31.68	263	111	Horizontal
3	9748	44.24	38.53	-37.51	45.25	74.00	28.75	265	185	Horizontal
4	4874	44.07	32.30	-44.77	31.60	54.00	22.40	241	283	Horizontal
5	7311	41.66	36.39	-41.78	36.26	54.00	17.74	175	157	Horizontal
6	9748	37.37	38.53	-37.51	38.38	54.00	15.62	263	1	Horizontal



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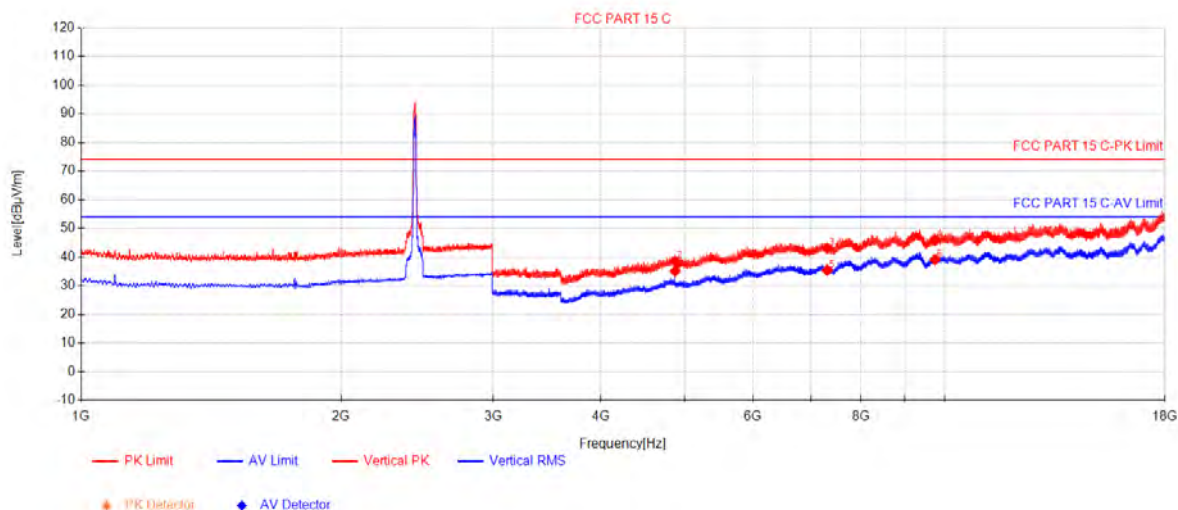
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Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874.5	47.54	32.30	-44.77	35.07	54.00	18.93	174	61	Vertical
2	4874	50.98	32.30	-44.77	38.51	74.00	35.49	186	86	Vertical
3	7311	48.45	36.39	-41.78	43.05	74.00	30.95	263	208	Vertical
4	9748	44.89	38.53	-37.51	45.90	74.00	28.10	254	14	Vertical
5	7311	40.77	36.39	-41.78	35.37	54.00	18.63	188	357	Vertical
6	9748	38.08	38.53	-37.51	39.09	54.00	14.91	265	259	Vertical



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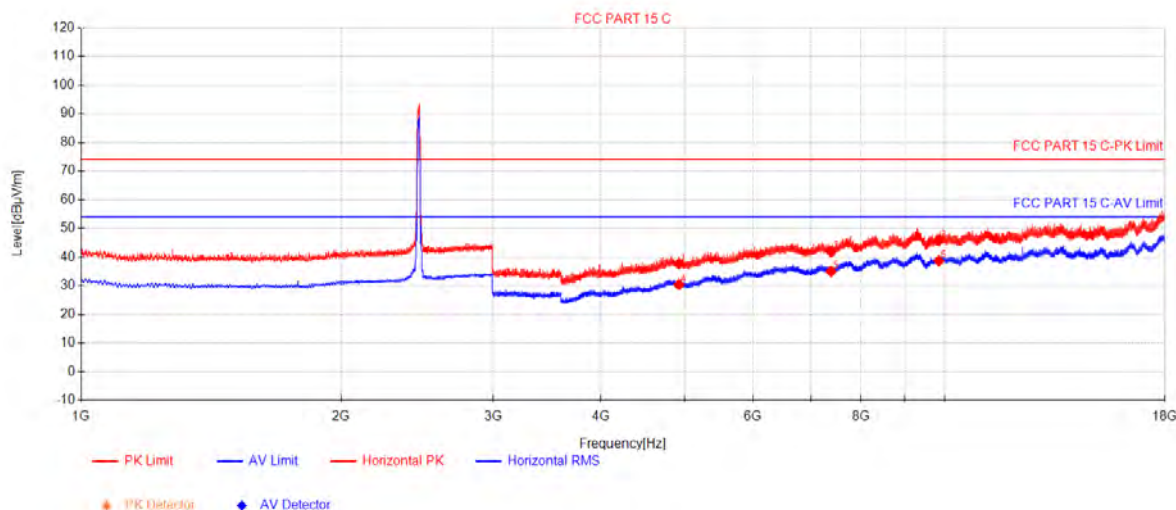
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NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924	50.16	32.42	-44.89	37.68	74.00	36.32	176	312	Horizontal
2	7386	47.34	36.43	-41.95	41.82	74.00	32.18	263	106	Horizontal
3	9848	44.66	38.52	-37.38	45.80	74.00	28.20	265	359	Horizontal
4	4924	42.83	32.42	-44.89	30.35	54.00	23.65	241	3	Horizontal
5	7386	40.46	36.43	-41.95	34.94	54.00	19.06	185	360	Horizontal
6	9848	37.48	38.52	-37.38	38.62	54.00	15.38	263	205	Horizontal



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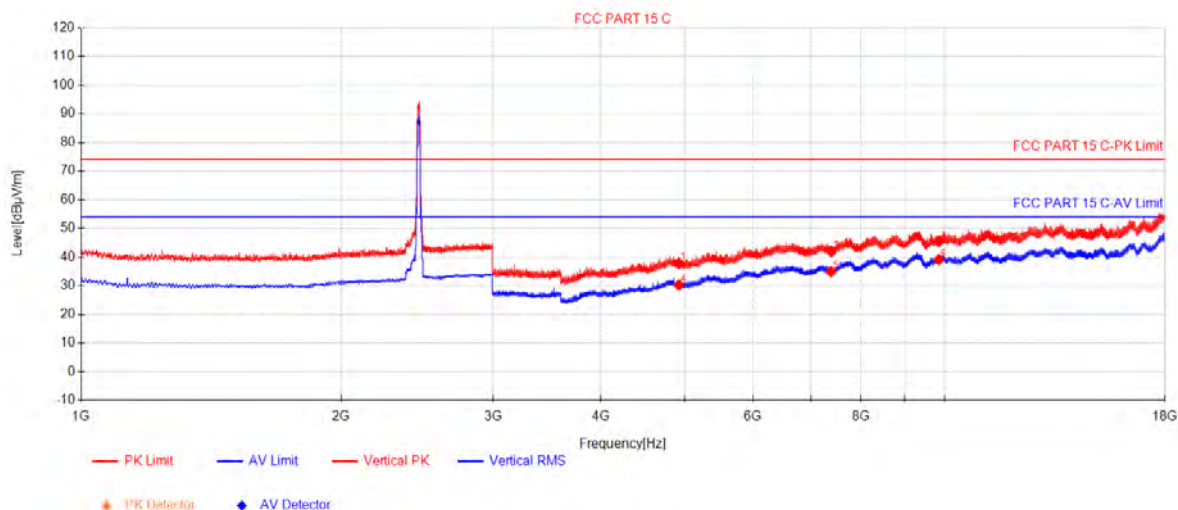
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Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924	50.32	32.42	-44.89	37.84	74.00	36.16	142	360	Vertical
2	7386	47.50	36.43	-41.95	41.98	74.00	32.02	263	3	Vertical
3	9848	44.30	38.52	-37.38	45.44	74.00	28.56	296	202	Vertical
4	4924	42.69	32.42	-44.89	30.21	54.00	23.79	265	129	Vertical
5	7386	40.41	36.43	-41.95	34.89	54.00	19.11	284	28	Vertical
6	9848	37.91	38.52	-37.38	39.05	54.00	14.95	177	284	Vertical



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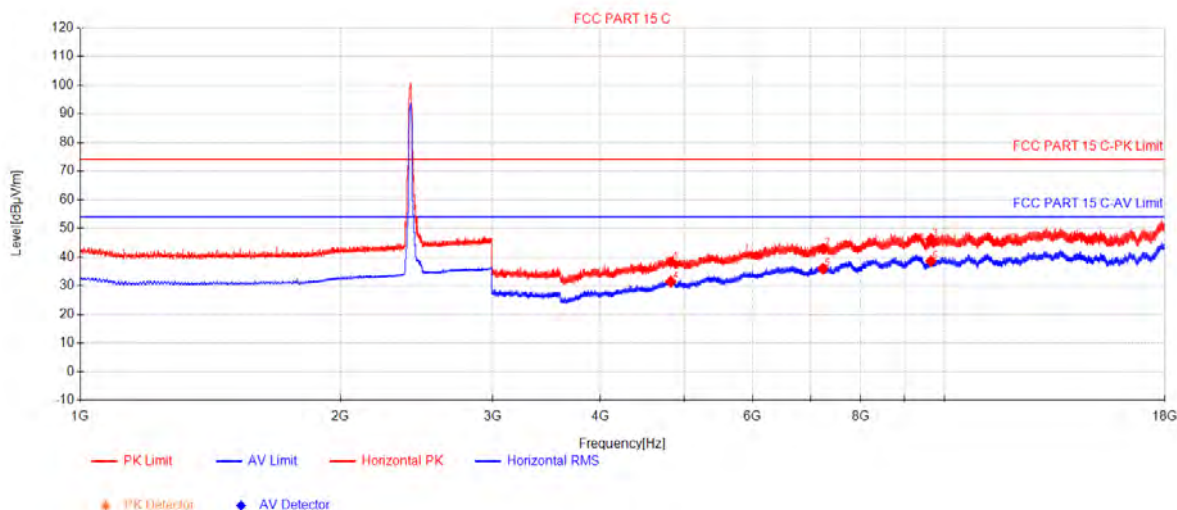
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Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824	50.62	32.18	-44.55	38.25	74.00	35.75	163	178	Horizontal
2	7236	48.68	36.34	-42.08	42.94	74.00	31.06	265	260	Horizontal
3	9648	45.49	38.54	-37.82	46.20	74.00	27.80	241	85	Horizontal
4	4824	43.73	32.18	-44.55	31.36	54.00	22.64	174	56	Horizontal
5	7236	41.64	36.34	-42.08	35.90	54.00	18.10	185	260	Horizontal
6	9648	37.81	38.54	-37.82	38.52	54.00	15.48	264	106	Horizontal



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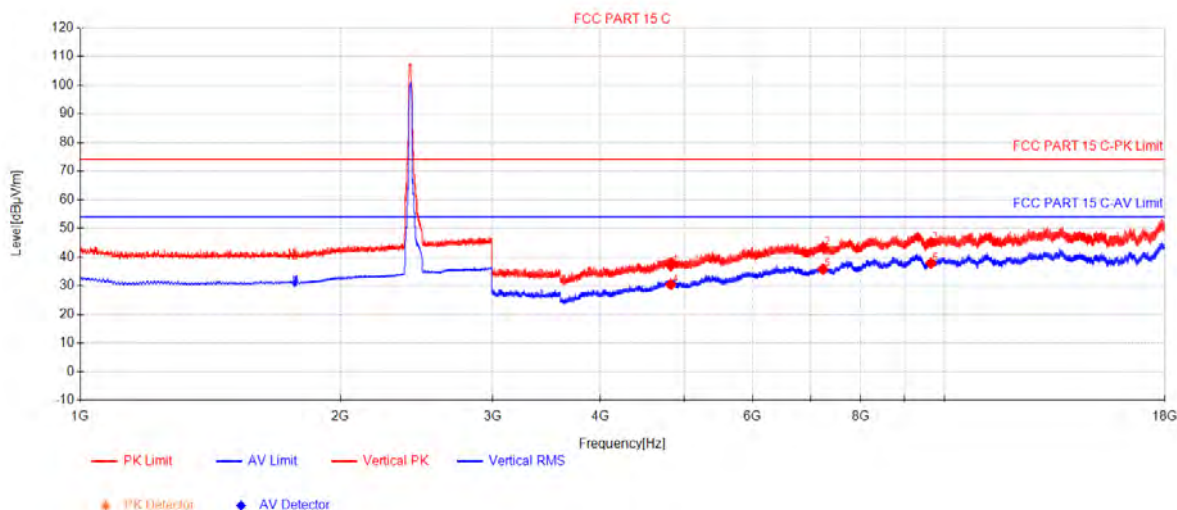
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Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824	49.35	32.18	-44.55	36.98	74.00	37.02	142	229	Vertical
2	7236	49.09	36.34	-42.08	43.35	74.00	30.65	285	255	Vertical
3	9648	44.32	38.54	-37.82	45.03	74.00	28.97	265	8	Vertical
4	4824	42.74	32.18	-44.55	30.37	54.00	23.63	241	357	Vertical
5	7236	41.47	36.34	-42.08	35.73	54.00	18.27	185	333	Vertical
6	9648	37.10	38.54	-37.82	37.81	54.00	16.19	254	0	Vertical



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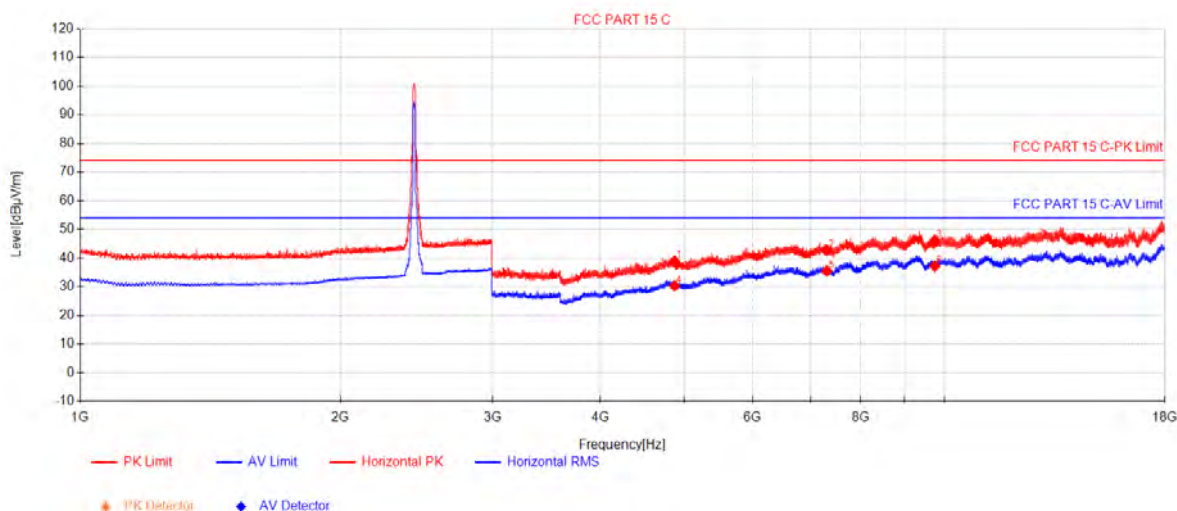
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NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874	51.40	32.30	-44.77	38.93	74.00	35.07	302	178	Horizontal
2	7311	48.04	36.39	-41.78	42.64	74.00	31.36	142	153	Horizontal
3	9748	45.16	38.53	-37.51	46.17	74.00	27.83	286	153	Horizontal
4	4874	42.73	32.30	-44.77	30.26	54.00	23.74	263	52	Horizontal
5	7311	40.84	36.39	-41.78	35.44	54.00	18.56	251	127	Horizontal
6	9748	36.17	38.53	-37.51	37.18	54.00	16.82	140	333	Horizontal



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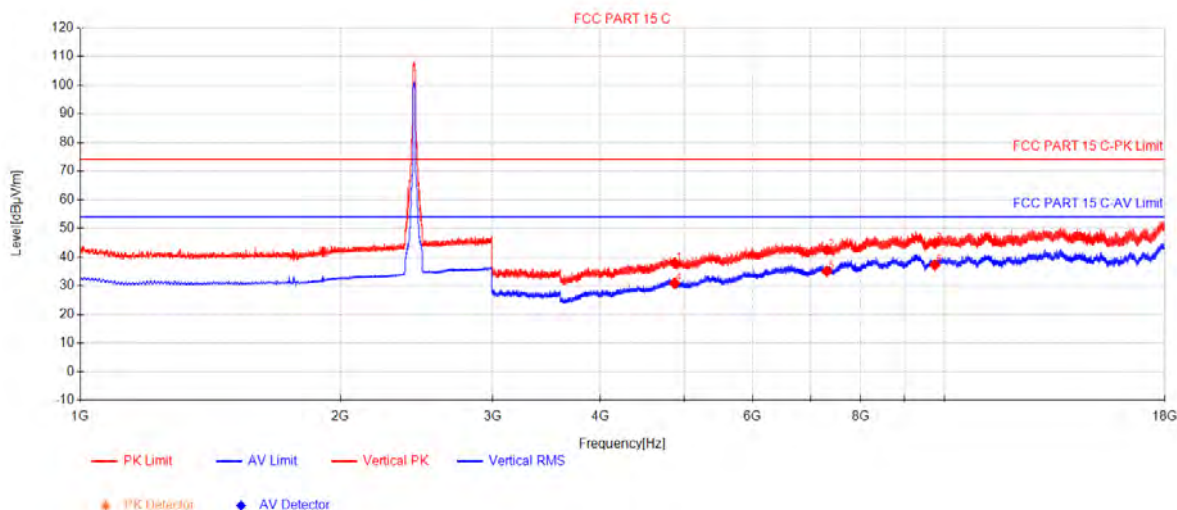
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NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874	50.37	32.30	-44.77	37.90	74.00	36.10	104	159	Vertical
2	7311	47.86	36.39	-41.78	42.46	74.00	31.54	142	307	Vertical
3	9748	43.72	38.53	-37.51	44.73	74.00	29.27	263	357	Vertical
4	4874	43.32	32.30	-44.77	30.85	54.00	23.15	265	357	Vertical
5	7311	40.38	36.39	-41.78	34.98	54.00	19.02	241	159	Vertical
6	9748	36.21	38.53	-37.51	37.22	54.00	16.78	188	255	Vertical



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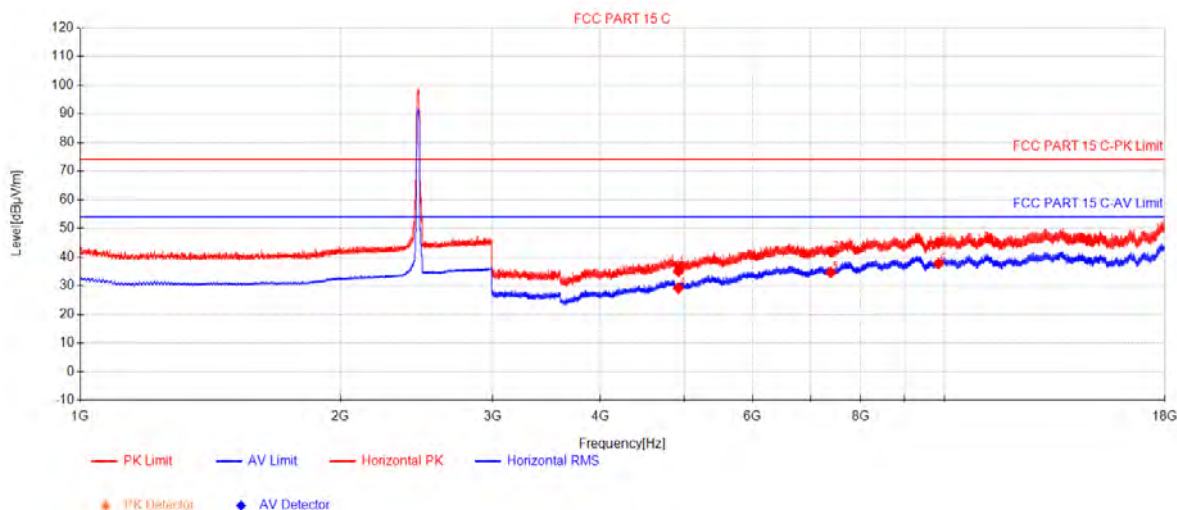
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Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924	47.42	32.42	-44.89	34.94	74.00	39.06	142	211	Horizontal
2	7386	47.42	36.43	-41.95	41.90	74.00	32.10	263	129	Horizontal
3	9848	43.68	38.52	-37.38	44.82	74.00	29.18	251	255	Horizontal
4	4924	41.58	32.42	-44.89	29.10	54.00	24.90	144	142	Horizontal
5	7386	40.08	36.43	-41.95	34.56	54.00	19.44	175	106	Horizontal
6	9848	36.55	38.52	-37.38	37.69	54.00	16.31	264	1	Horizontal



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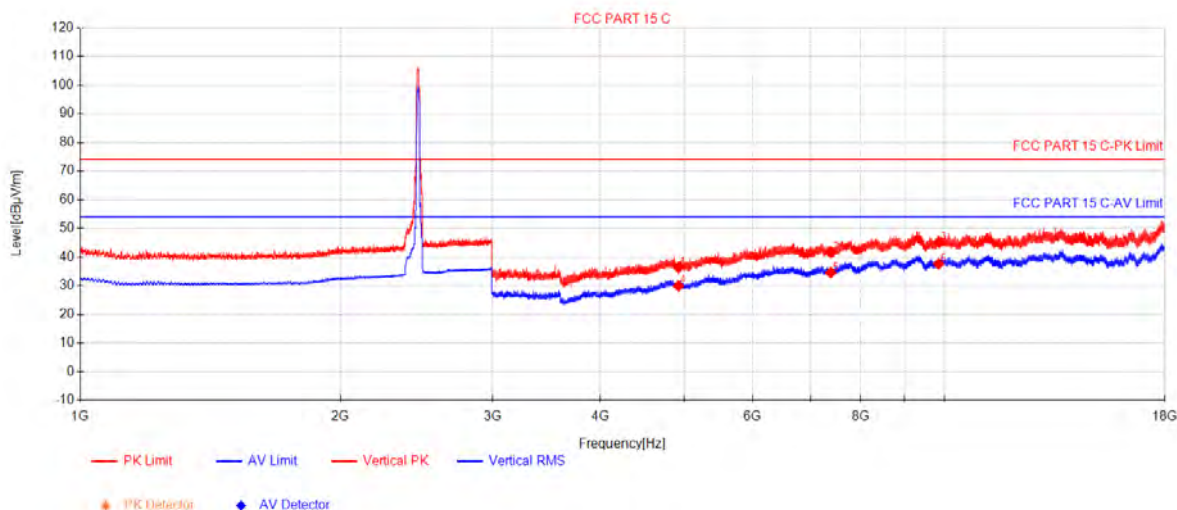
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802.11g_Channel 11



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	4924	48.85	32.42	-44.89	36.37	74.00	37.63	185	231	Vertical
2	7386	47.13	36.43	-41.95	41.61	74.00	32.39	263	357	Vertical
3	9848	44.01	38.52	-37.38	45.15	74.00	28.85	265	334	Vertical
4	4924	42.40	32.42	-44.89	29.92	54.00	24.08	241	206	Vertical
5	7386	40.00	36.43	-41.95	34.48	54.00	19.52	144	36	Vertical
6	9848	36.45	38.52	-37.38	37.59	54.00	16.41	175	36	Vertical



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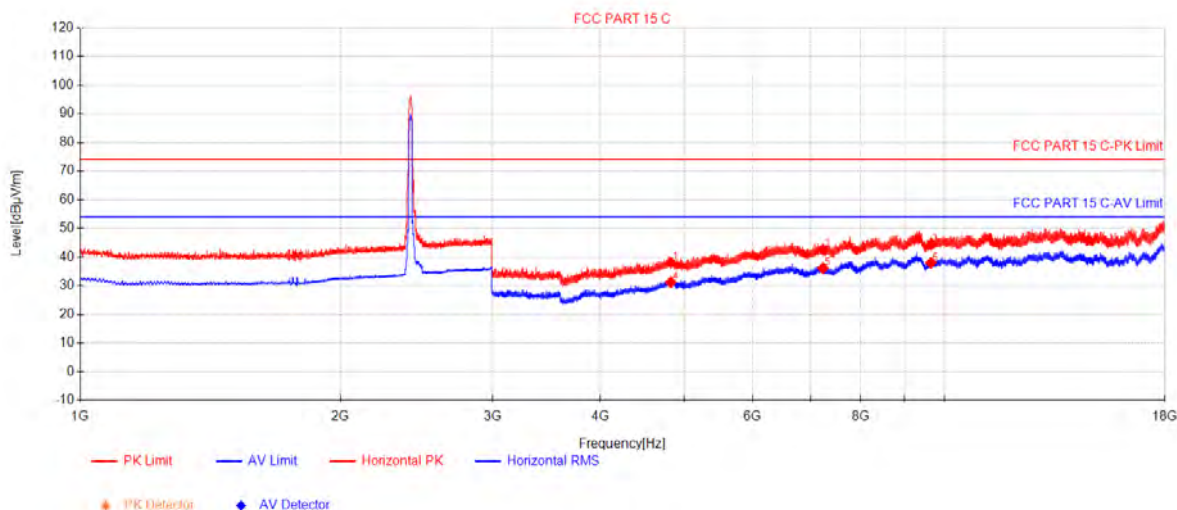
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Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824	50.44	32.18	-44.55	38.07	74.00	35.93	163	232	Horizontal
2	7236	48.28	36.34	-42.08	42.54	74.00	31.46	265	132	Horizontal
3	9648	43.55	38.54	-37.82	44.26	74.00	29.74	241	182	Horizontal
4	4824	43.54	32.18	-44.55	31.17	54.00	22.83	178	182	Horizontal
5	7236	41.81	36.34	-42.08	36.07	54.00	17.93	142	107	Horizontal
6	9648	37.25	38.54	-37.82	37.96	54.00	16.04	294	182	Horizontal



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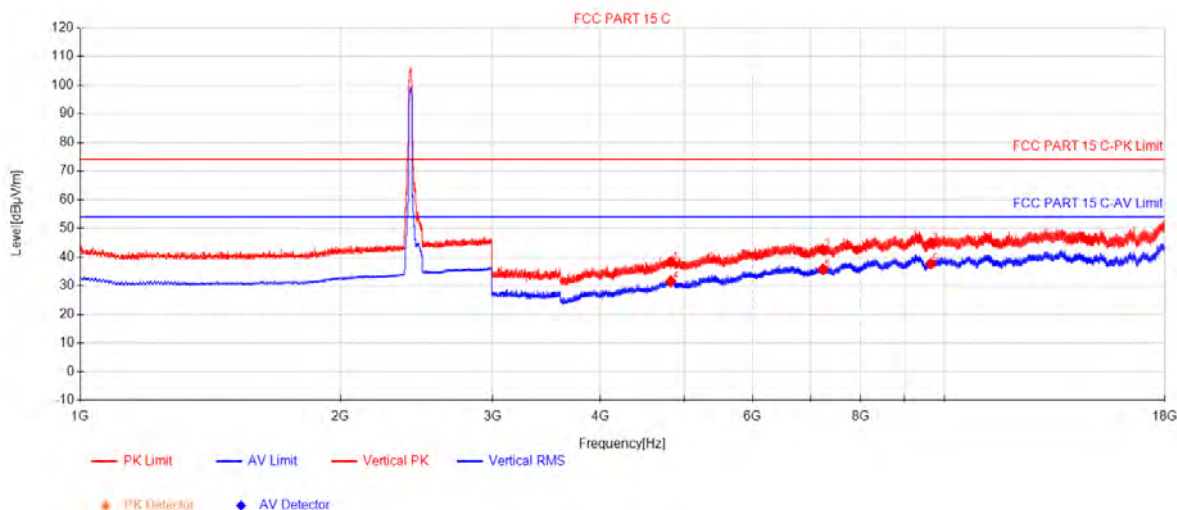
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Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824	50.56	32.18	-44.55	38.19	74.00	35.81	142	209	Vertical
2	7236	48.23	36.34	-42.08	42.49	74.00	31.51	285	31	Vertical
3	9648	44.22	38.54	-37.82	44.93	74.00	29.07	241	81	Vertical
4	4824	43.83	32.18	-44.55	31.46	54.00	22.54	254	31	Vertical
5	7236	41.38	36.34	-42.08	35.64	54.00	18.36	110	184	Vertical
6	9648	36.94	38.54	-37.82	37.65	54.00	16.35	142	31	Vertical



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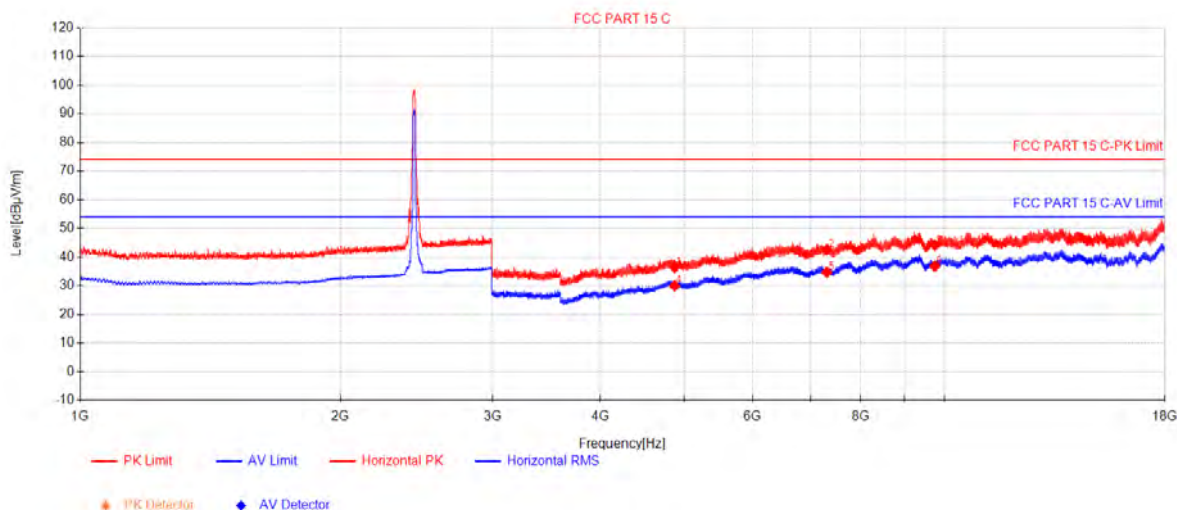
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802.11n20_Channel 06



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	48.85	32.30	-44.77	36.38	74.00	37.62	126	205	Horizontal
2	7311	48.00	36.39	-41.78	42.60	74.00	31.40	251	180	Horizontal
3	9748	43.06	38.53	-37.51	44.07	74.00	29.93	142	56	Horizontal
4	4874	42.44	32.30	-44.77	29.97	54.00	24.03	284	155	Horizontal
5	7311	40.07	36.39	-41.78	34.67	54.00	19.33	196	130	Horizontal
6	9748	35.76	38.53	-37.51	36.77	54.00	17.23	304	130	Horizontal



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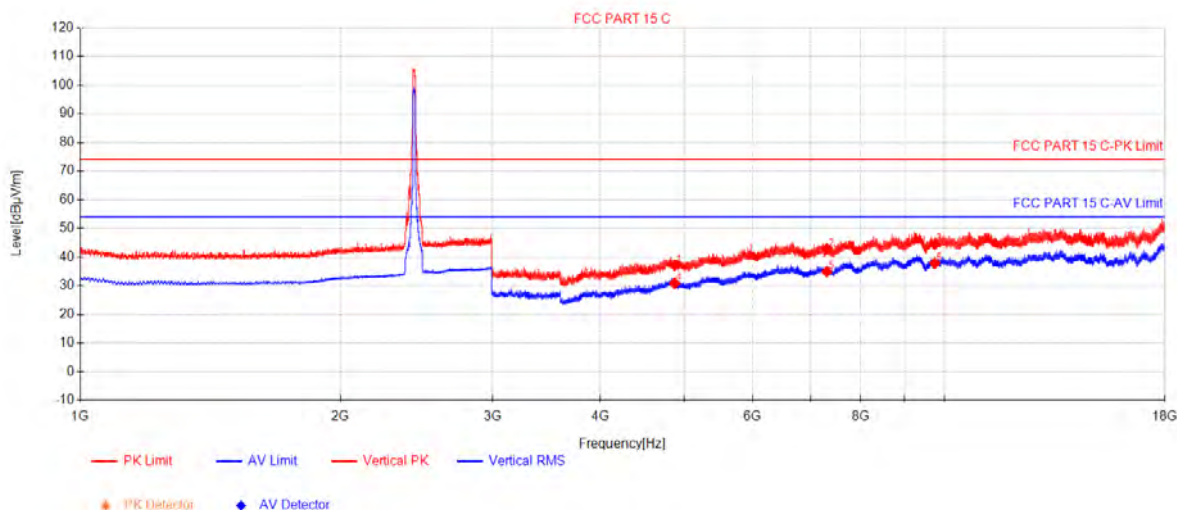
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Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874	49.58	32.30	-44.77	37.11	74.00	36.89	185	183	Vertical
2	7311	48.27	36.39	-41.78	42.87	74.00	31.13	263	0	Vertical
3	9748	43.39	38.53	-37.51	44.40	74.00	29.60	265	133	Vertical
4	4874	43.27	32.30	-44.77	30.80	54.00	23.20	241	158	Vertical
5	7311	40.29	36.39	-41.78	34.89	54.00	19.11	144	282	Vertical
6	9748	36.76	38.53	-37.51	37.77	54.00	16.23	175	133	Vertical



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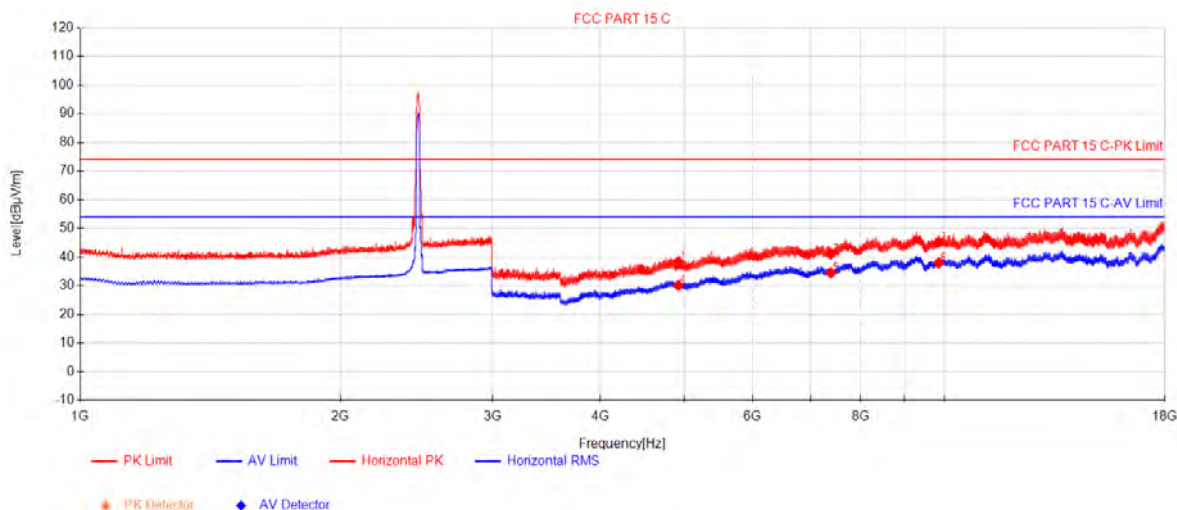
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Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924	50.83	32.42	-44.89	38.35	74.00	35.65	142	308	Horizontal
2	7386	46.58	36.43	-41.95	41.06	74.00	32.94	286	285	Horizontal
3	9848	44.04	38.52	-37.38	45.18	74.00	28.82	265	357	Horizontal
4	4924	42.58	32.42	-44.89	30.10	54.00	23.90	241	186	Horizontal
5	7386	39.94	36.43	-41.95	34.42	54.00	19.58	145	112	Horizontal
6	9848	36.80	38.52	-37.38	37.94	54.00	16.06	284	85	Horizontal



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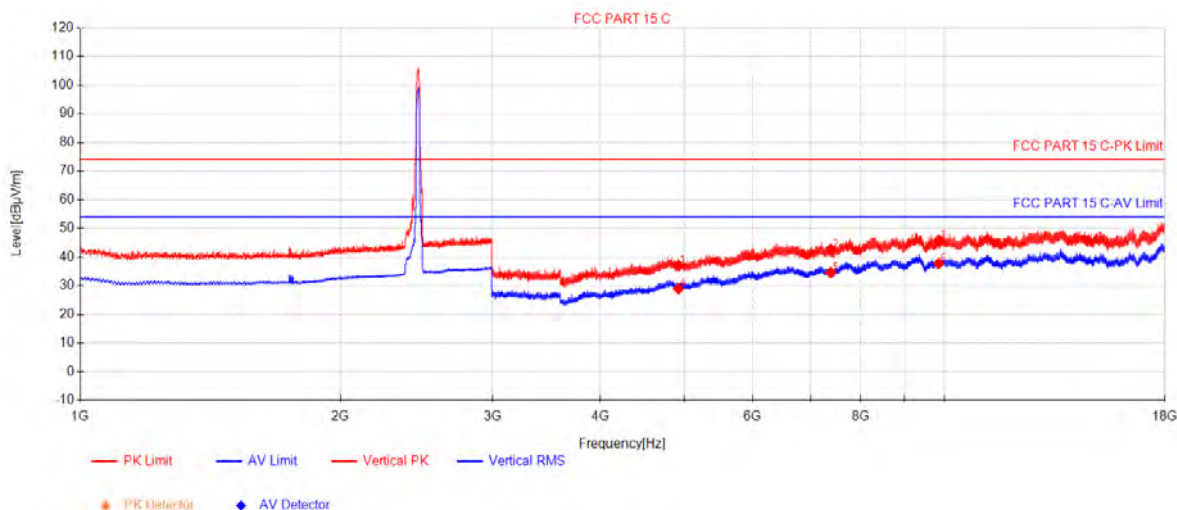
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Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924	49.52	32.42	-44.89	37.04	74.00	36.96	185	307	Vertical
2	7386	48.15	36.43	-41.95	42.63	74.00	31.37	263	154	Vertical
3	9848	44.67	38.52	-37.38	45.81	74.00	28.19	265	205	Vertical
4	4924	41.39	32.42	-44.89	28.91	54.00	25.09	241	307	Vertical
5	7386	40.02	36.43	-41.95	34.50	54.00	19.50	142	0	Vertical
6	9848	36.54	38.52	-37.38	37.68	54.00	16.32	285	232	Vertical



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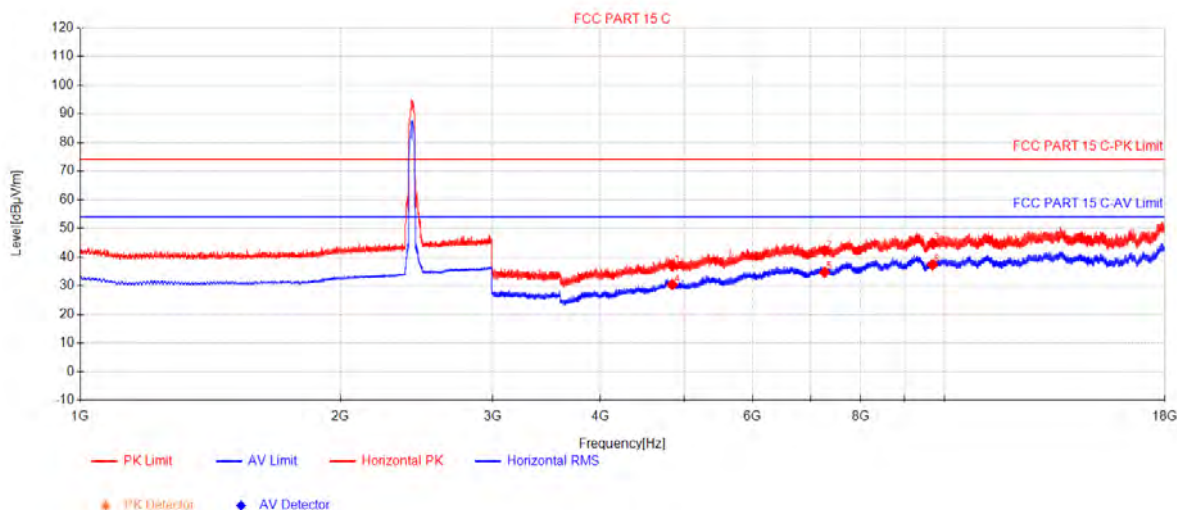
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802.11n40_Channel 03



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	4844	49.29	32.23	-44.63	36.88	74.00	37.12	142	286	Horizontal
2	7266	47.85	36.36	-41.93	42.28	74.00	31.72	285	208	Horizontal
3	9688	43.89	38.53	-37.59	44.83	74.00	29.17	265	182	Horizontal
4	4844	42.75	32.23	-44.63	30.34	54.00	23.66	236	130	Horizontal
5	7266	40.19	36.36	-41.93	34.62	54.00	19.38	241	105	Horizontal
6	9688	36.36	38.53	-37.59	37.30	54.00	16.70	196	105	Horizontal



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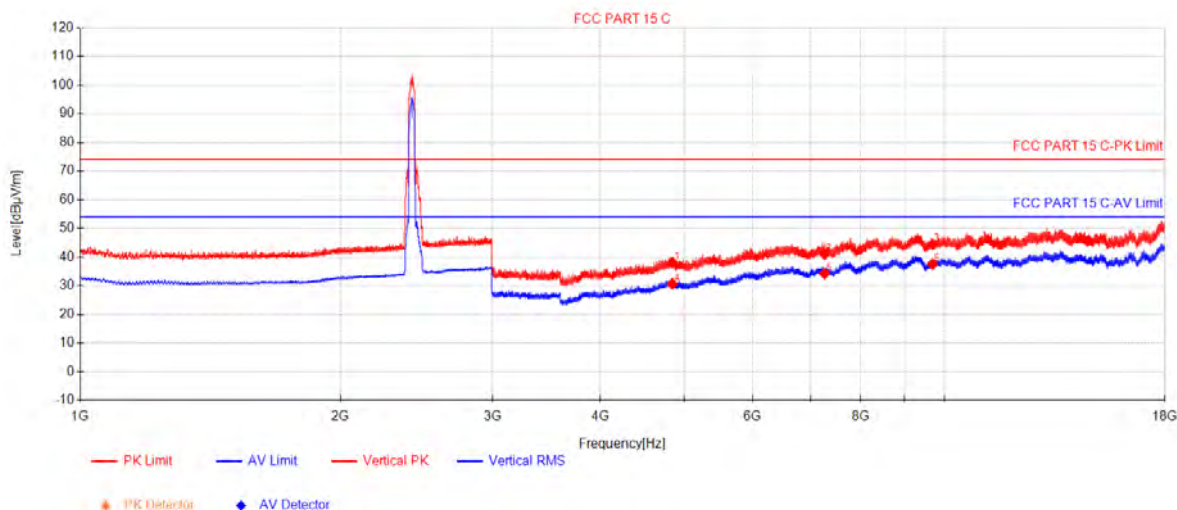
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Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4844	50.53	32.23	-44.63	38.12	74.00	35.88	102	284	Vertical
2	7266	46.58	36.36	-41.93	41.01	74.00	32.99	306	28	Vertical
3	9688	43.45	38.53	-37.59	44.39	74.00	29.61	265	54	Vertical
4	4844	43.03	32.23	-44.63	30.62	54.00	23.38	295	208	Vertical
5	7266	39.74	36.36	-41.93	34.17	54.00	19.83	241	28	Vertical
6	9688	36.56	38.53	-37.59	37.50	54.00	16.50	178	130	Vertical



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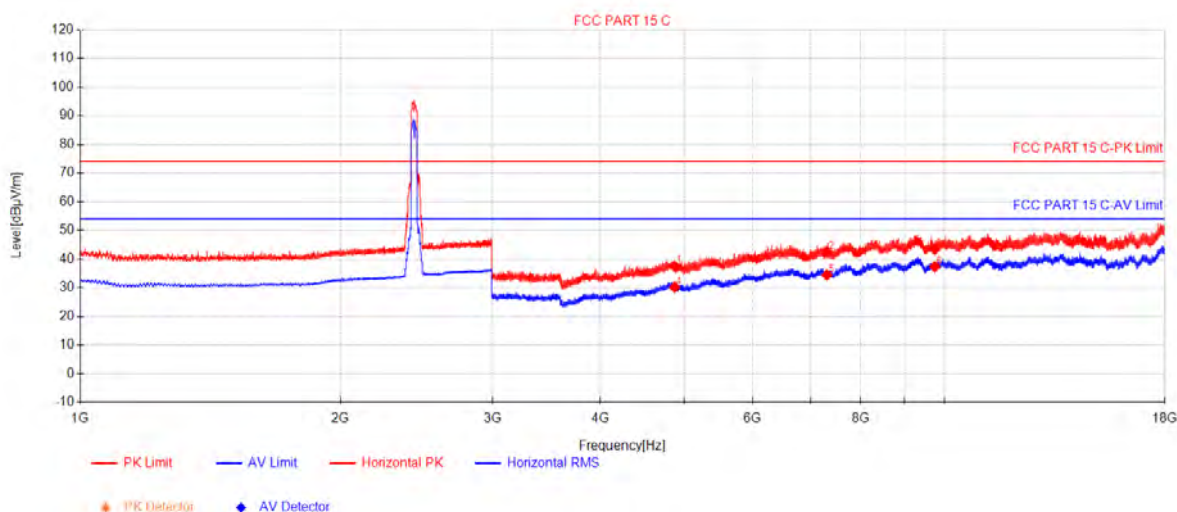
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802.11n40_Channel 06



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	49.91	32.30	-44.77	37.44	74.00	36.56	163	359	Horizontal
2	7311	47.94	36.39	-41.78	42.54	74.00	31.46	254	81	Horizontal
3	9748	42.35	38.53	-37.51	43.36	74.00	30.64	174	359	Horizontal
4	4874	42.61	32.30	-44.77	30.14	54.00	23.86	185	133	Horizontal
5	7311	39.79	36.39	-41.78	34.39	54.00	19.61	263	182	Horizontal
6	9748	36.32	38.53	-37.51	37.33	54.00	16.67	265	4	Horizontal



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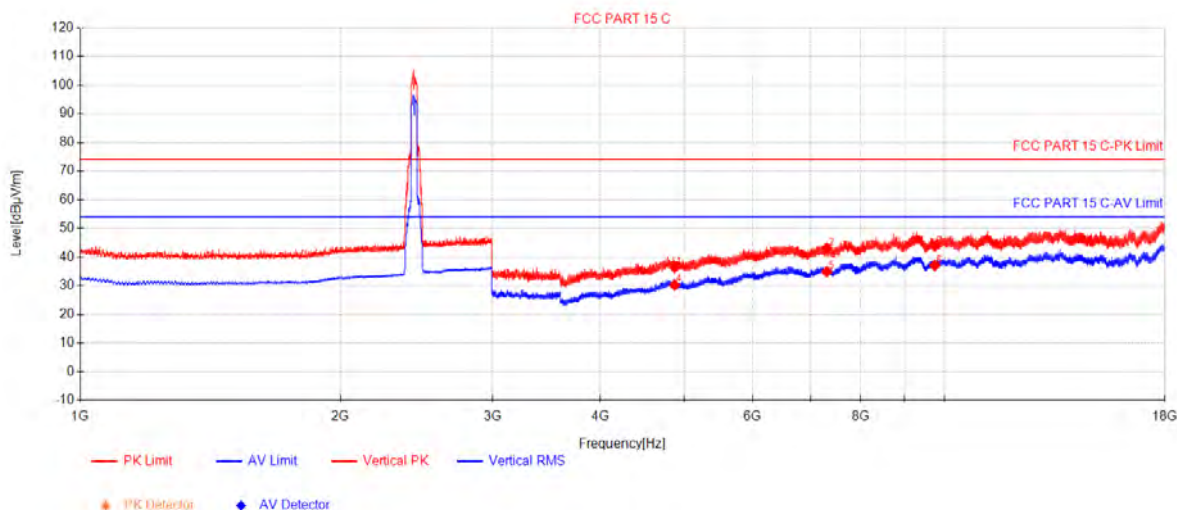
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Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874	48.87	32.30	-44.77	36.40	74.00	37.60	142	152	Vertical
2	7311	48.50	36.39	-41.78	43.10	74.00	30.90	285	275	Vertical
3	9748	42.75	38.53	-37.51	43.76	74.00	30.24	263	127	Vertical
4	4874	42.66	32.30	-44.77	30.19	54.00	23.81	265	201	Vertical
5	7311	40.25	36.39	-41.78	34.85	54.00	19.15	214	325	Vertical
6	9748	36.04	38.53	-37.51	37.05	54.00	16.95	196	175	Vertical



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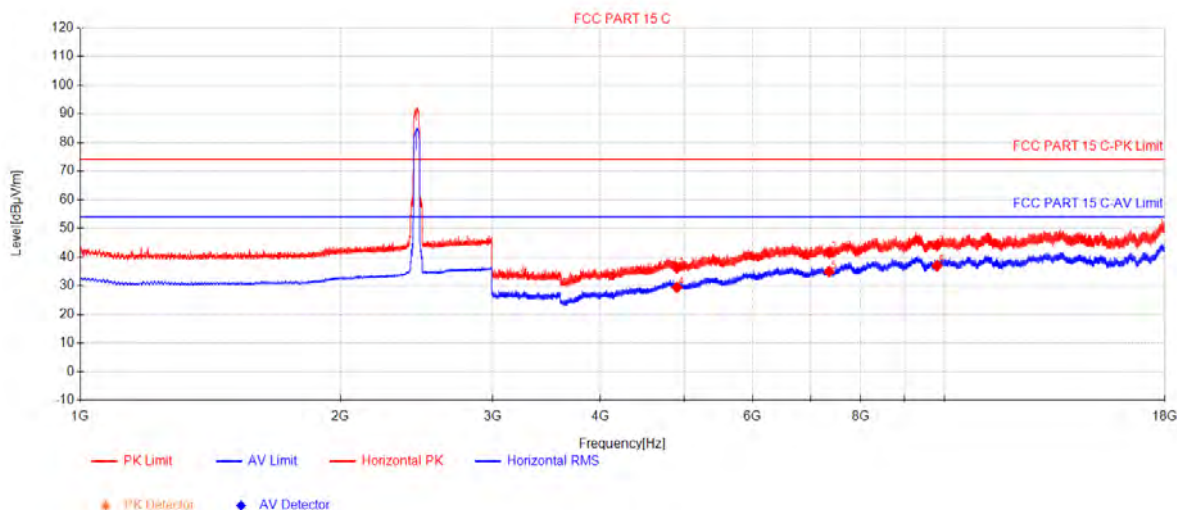
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802.11n40_Channel 09



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	4904	48.71	32.37	-44.88	36.20	74.00	37.80	163	234	Horizontal
2	7356	46.96	36.41	-41.88	41.49	74.00	32.51	265	106	Horizontal
3	9808	42.94	38.52	-37.48	43.98	74.00	30.02	241	54	Horizontal
4	4904	41.86	32.37	-44.88	29.35	54.00	24.65	175	354	Horizontal
5	7356	40.34	36.41	-41.88	34.87	54.00	19.13	265	360	Horizontal
6	9808	35.87	38.52	-37.48	36.91	54.00	17.09	294	309	Horizontal



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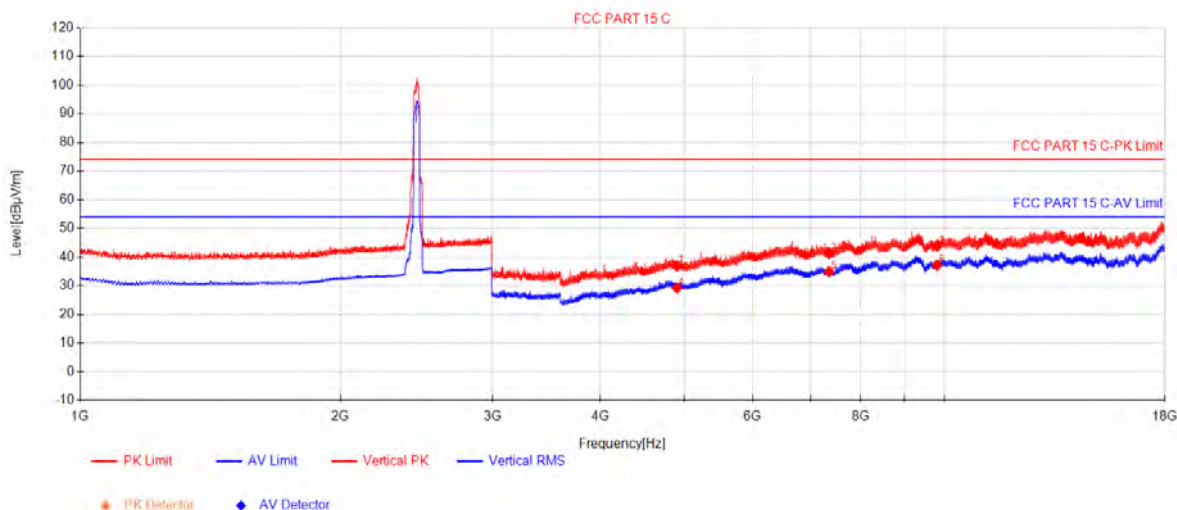
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Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4904	49.37	32.37	-44.88	36.86	74.00	37.14	142	225	Vertical
2	7356	46.78	36.41	-41.88	41.31	74.00	32.69	285	24	Vertical
3	9808	42.69	38.52	-37.48	43.73	74.00	30.27	265	150	Vertical
4	4904	41.70	32.37	-44.88	29.19	54.00	24.81	241	199	Vertical
5	7356	40.30	36.41	-41.88	34.83	54.00	19.17	142	75	Vertical
6	9808	36.13	38.52	-37.48	37.17	54.00	16.83	263	150	Vertical



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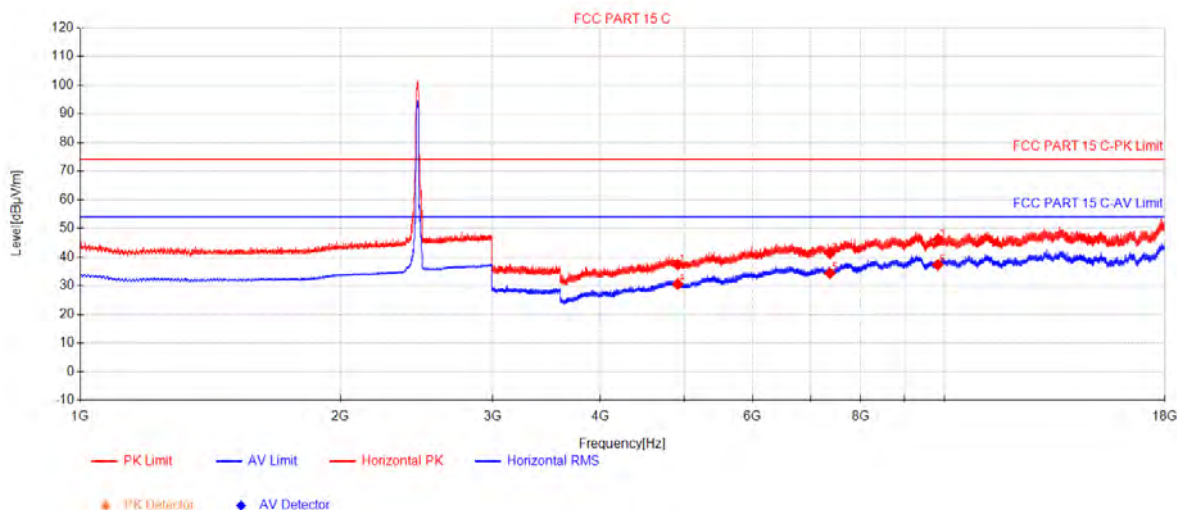
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802.11g_Channel 10



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	4914	49.88	32.39	-44.89	37.39	74.00	36.61	182	333	Horizontal
2	7371	46.79	36.42	-41.92	41.30	74.00	32.70	263	79	Horizontal
3	9828	45.02	38.52	-37.43	46.11	74.00	27.89	241	0	Horizontal
4	4914	43.00	32.39	-44.89	30.51	54.00	23.49	178	7	Horizontal
5	7371	39.76	36.42	-41.92	34.27	54.00	19.73	266	230	Horizontal
6	9828	36.19	38.52	-37.43	37.28	54.00	16.72	291	181	Horizontal



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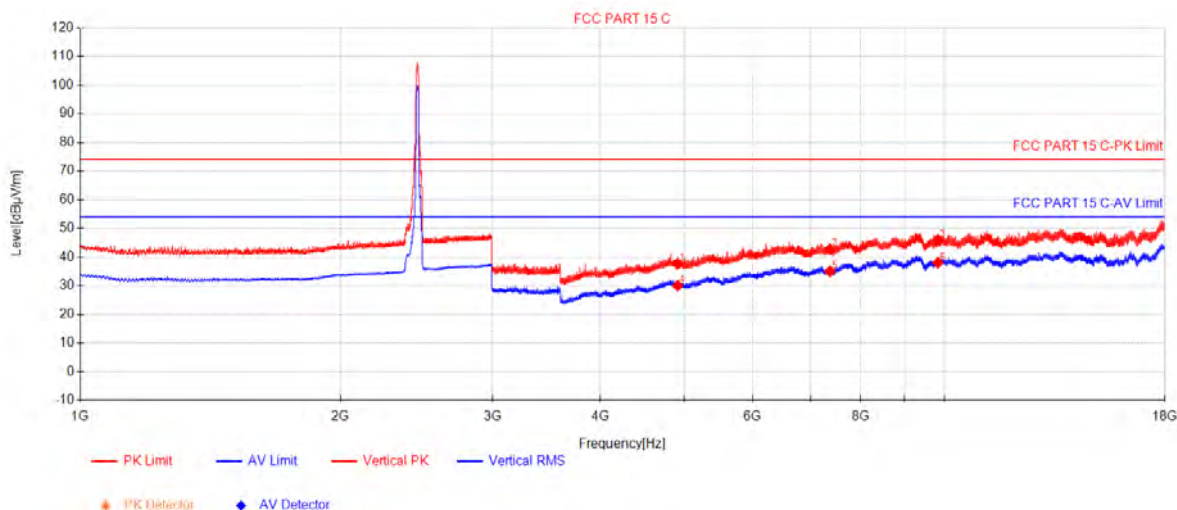
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ata List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4914	50.17	32.39	-44.89	37.68	74.00	36.32	172	307	Vertical
2	7371	48.21	36.42	-41.92	42.72	74.00	31.28	263	332	Vertical
3	9828	44.83	38.52	-37.43	45.92	74.00	28.08	284	332	Vertical
4	4914	42.48	32.39	-44.89	29.99	54.00	24.01	177	305	Vertical
5	7371	40.46	36.42	-41.92	34.97	54.00	19.03	166	0	Vertical
6	9828	36.91	38.52	-37.43	38.00	54.00	16.00	263	76	Vertical



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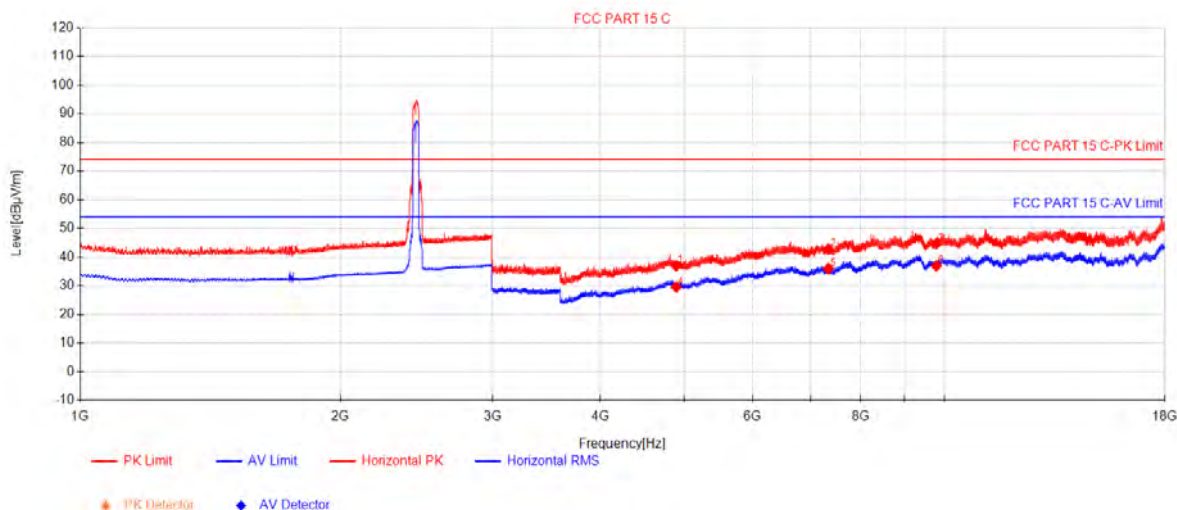
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802.1140_Channel 08



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	4894	49.41	32.35	-44.85	36.90	74.00	37.10	263	125	Horizontal
2	7341	48.16	36.40	-41.85	42.71	74.00	31.29	254	3	Horizontal
3	9788	43.59	38.52	-37.50	44.61	74.00	29.39	184	79	Horizontal
4	4894	41.98	32.35	-44.85	29.47	54.00	24.53	177	252	Horizontal
5	7341	41.38	36.40	-41.85	35.93	54.00	18.07	196	28	Horizontal
6	9788	35.86	38.52	-37.50	36.88	54.00	17.12	266	26	Horizontal



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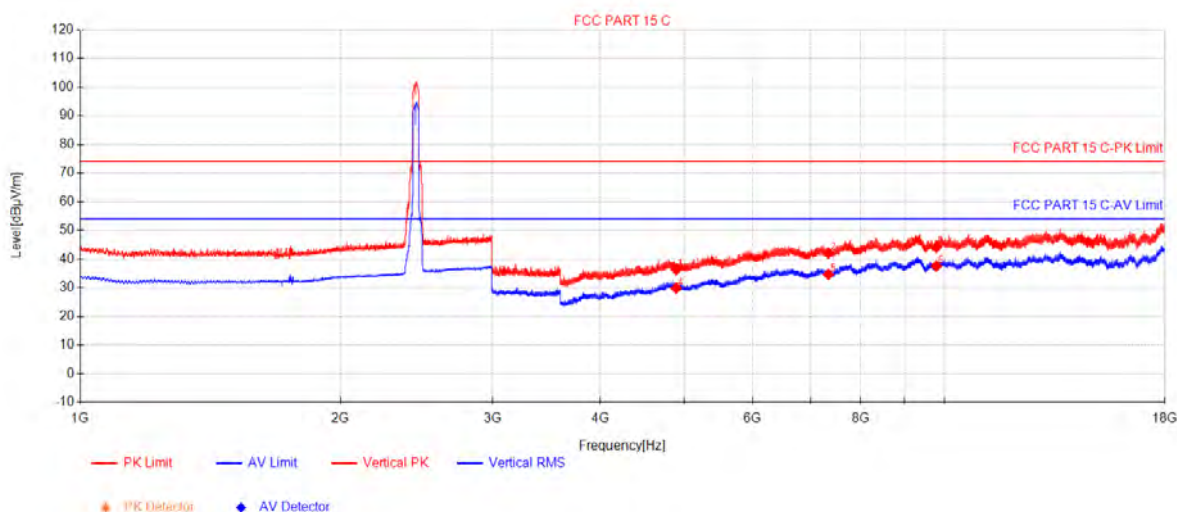
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802.1140_Channel 08



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	4894	48.87	32.35	-44.85	36.36	74.00	37.64	172	53	Vertical
2	7341	47.53	36.40	-41.85	42.08	74.00	31.92	286	351	Vertical
3	9788	43.08	38.52	-37.50	44.10	74.00	29.90	263	360	Vertical
4	4894	42.35	32.35	-44.85	29.84	54.00	24.16	265	43	Vertical
5	7341	40.05	36.40	-41.85	34.60	54.00	19.40	241	79	Vertical
6	9788	36.50	38.52	-37.50	37.52	54.00	16.48	175	360	Vertical

Remark:

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

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

Factor = Cable Factor(dB) - Pre-amplifier gain(dB)

AF = Antenna Factor(dB/m)

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



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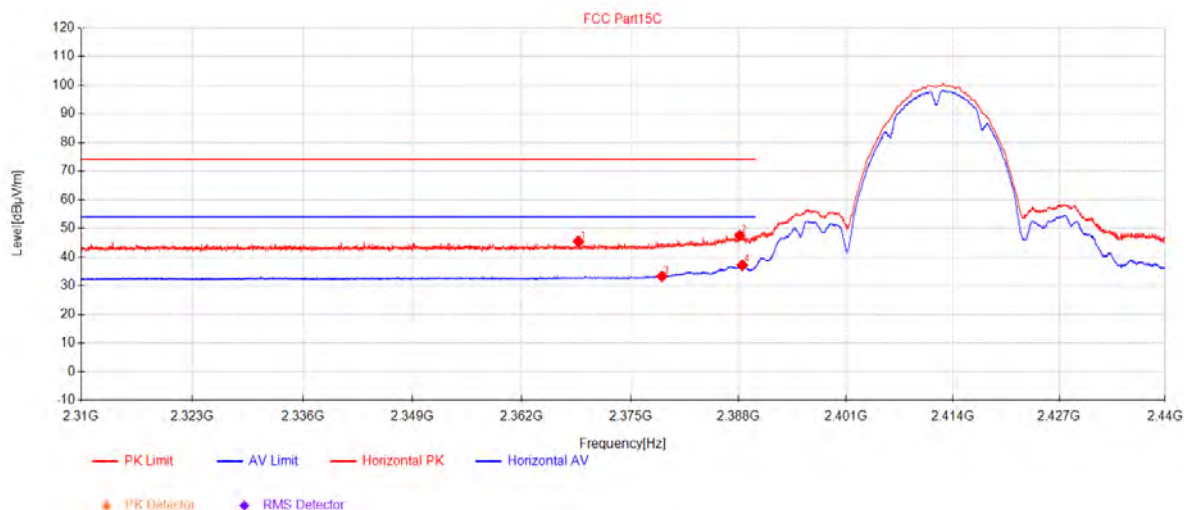
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Restricted bands around fundamental frequency

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	2368.76	42.31	27.64	-24.47	45.48	74.00	28.52	306	298	Horizontal
2	2388.13	44.22	27.68	-24.43	47.47	74.00	26.53	306	298	Horizontal
3	2378.77	30.05	27.66	-24.45	33.26	54.00	20.74	306	298	Horizontal
4	2388.455	33.90	27.68	-24.43	37.15	54.00	16.85	306	298	Horizontal



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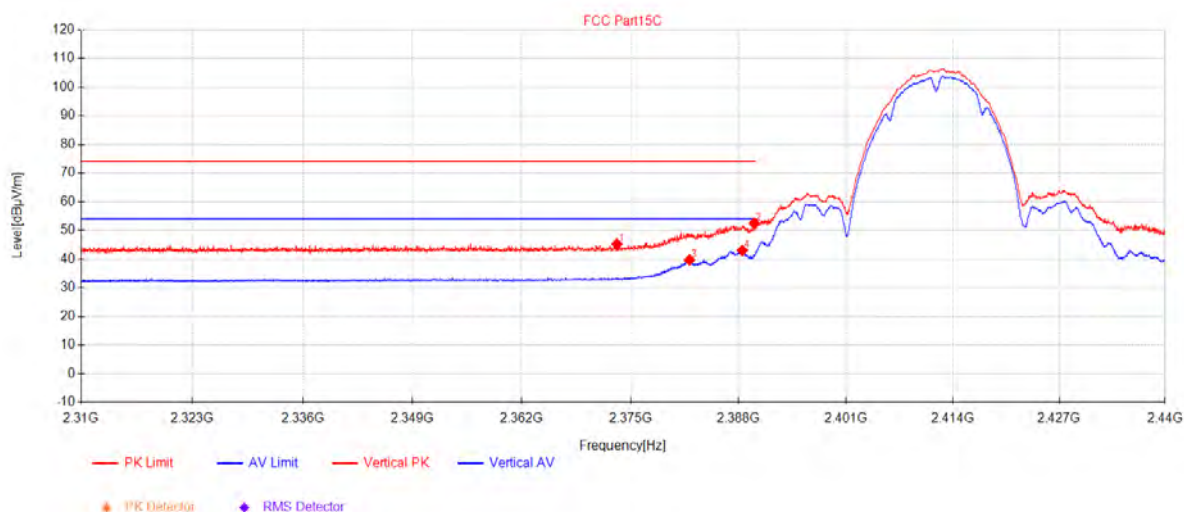
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Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2373.375	42.04	27.65	-24.46	45.23	74.00	28.77	143	61	Vertical
2	2389.885	49.14	27.68	-24.42	52.40	74.00	21.60	143	61	Vertical
3	2382.085	36.43	27.66	-24.44	39.65	54.00	14.35	143	61	Vertical
4	2388.455	39.72	27.68	-24.43	42.97	54.00	11.03	143	61	Vertical



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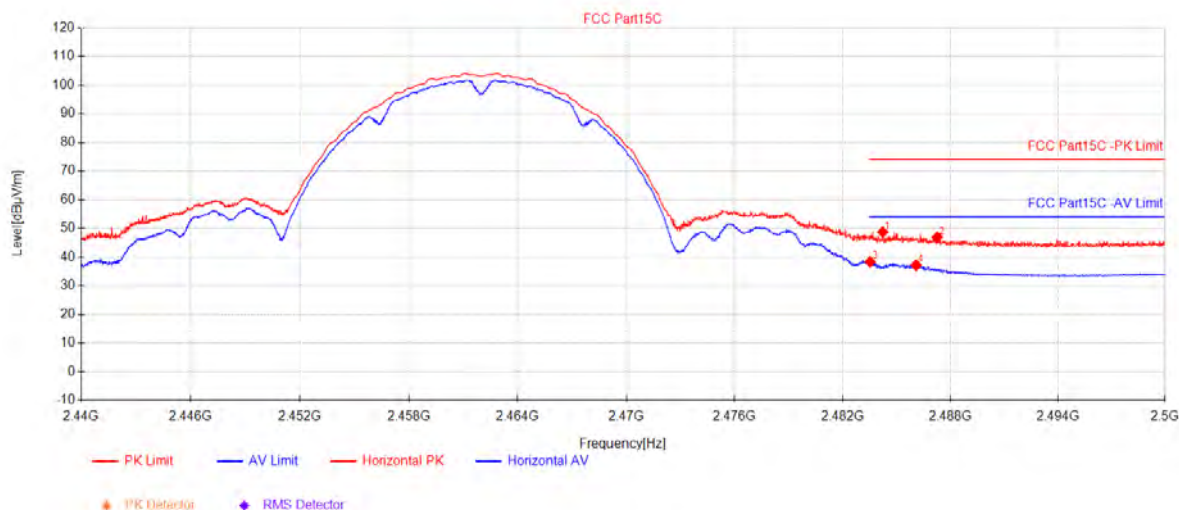
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Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2484.235	44.81	27.87	-23.95	48.72	74.00	25.28	321	313	Horizontal
2	2487.265	42.93	27.87	-23.94	46.87	74.00	27.13	321	313	Horizontal
3	2483.53	34.41	27.87	-23.96	38.32	54.00	15.68	321	313	Horizontal
4	2486.095	33.21	27.87	-23.94	37.14	54.00	16.86	321	313	Horizontal



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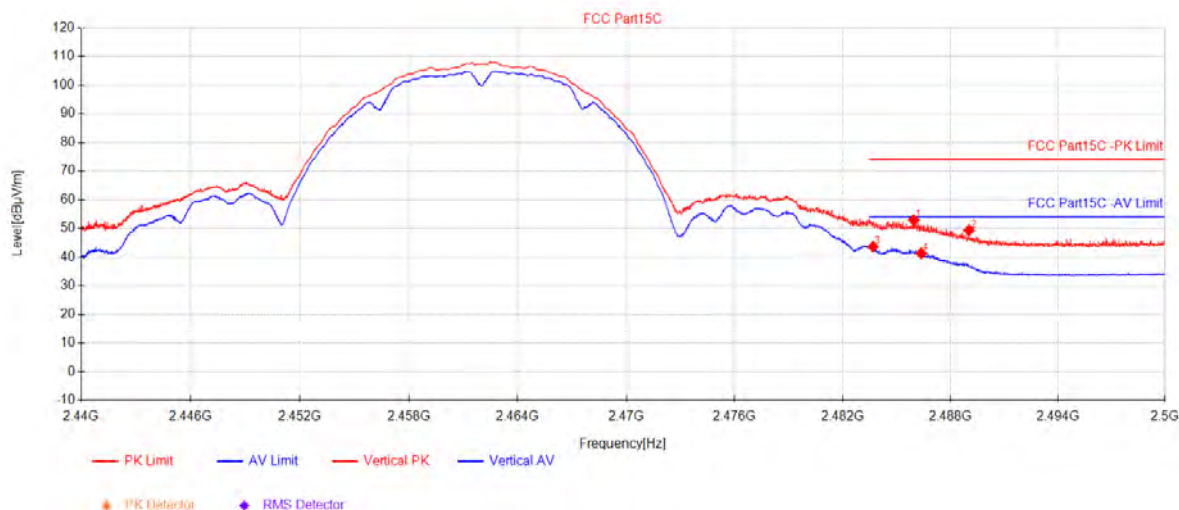
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Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2485.96	48.92	27.87	-23.94	52.85	74.00	21.15	126	47	Vertical
2	2489.035	45.35	27.88	-23.93	49.30	74.00	24.70	126	47	Vertical
3	2483.695	39.67	27.87	-23.96	43.58	54.00	10.42	126	47	Vertical
4	2486.38	37.32	27.87	-23.94	41.25	54.00	12.75	126	47	Vertical



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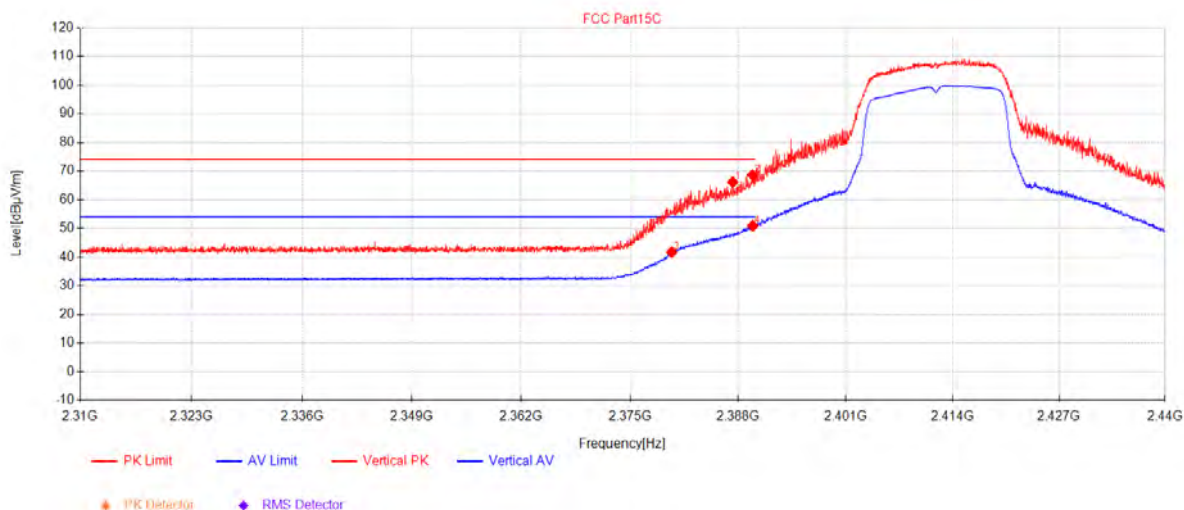
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Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2387.35	62.87	27.67	-24.43	66.12	74.00	7.88	199	321	Vertical
2	2389.7225	65.36	27.68	-24.42	68.62	74.00	5.38	199	321	Vertical
3	2380.005	38.46	27.66	-24.44	41.68	54.00	12.32	199	321	Vertical
4	2389.755	47.63	27.68	-24.42	50.89	54.00	3.11	199	321	Vertical



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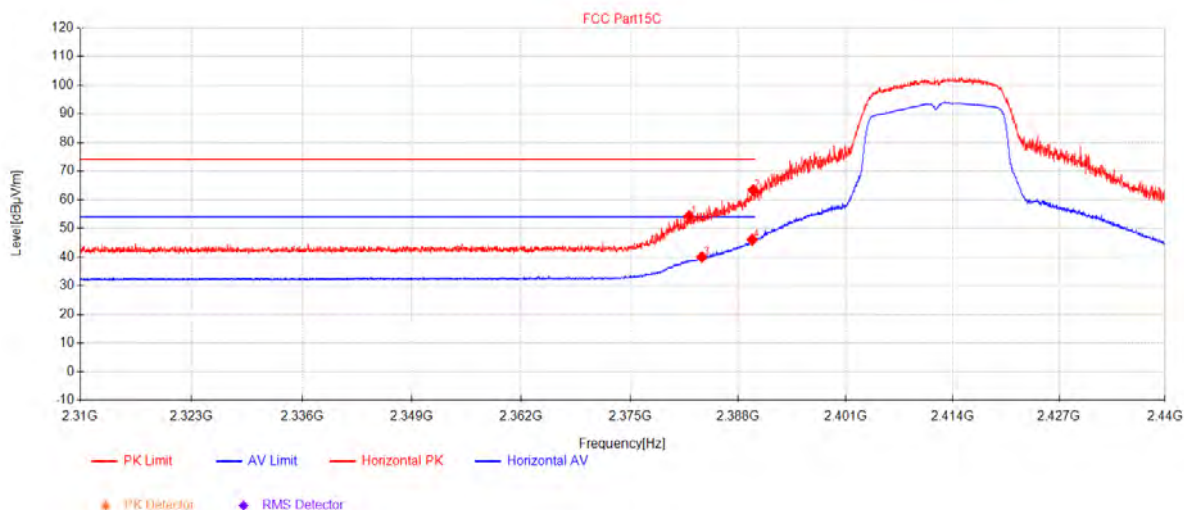
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Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2382.085	51.00	27.66	-24.44	54.22	74.00	19.78	106	144	Horizontal
2	2389.7875	60.04	27.68	-24.42	63.30	74.00	10.70	106	144	Horizontal
3	2383.6125	36.71	27.67	-24.44	39.94	54.00	14.06	106	144	Horizontal
4	2389.69	42.75	27.68	-24.42	46.01	54.00	7.99	106	144	Horizontal



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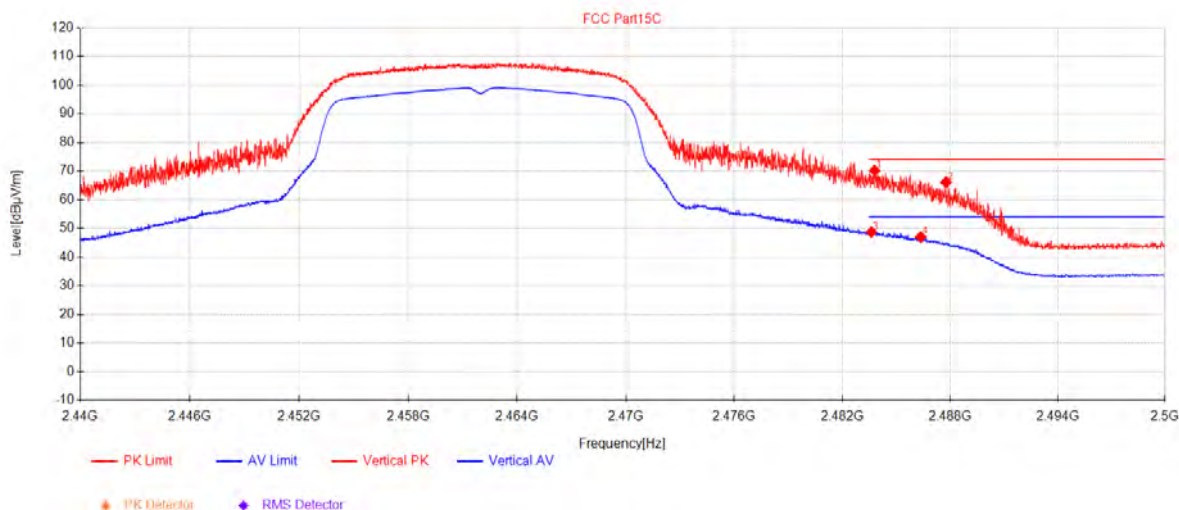
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Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.8	66.22	27.87	-23.96	70.13	74.00	3.87	119	348	Vertical
2	2487.775	62.16	27.88	-23.93	66.10	74.00	7.90	119	348	Vertical
3	2483.62	44.79	27.87	-23.96	48.70	54.00	5.30	119	348	Vertical
4	2486.365	43.06	27.87	-23.94	46.99	54.00	7.01	119	348	Vertical



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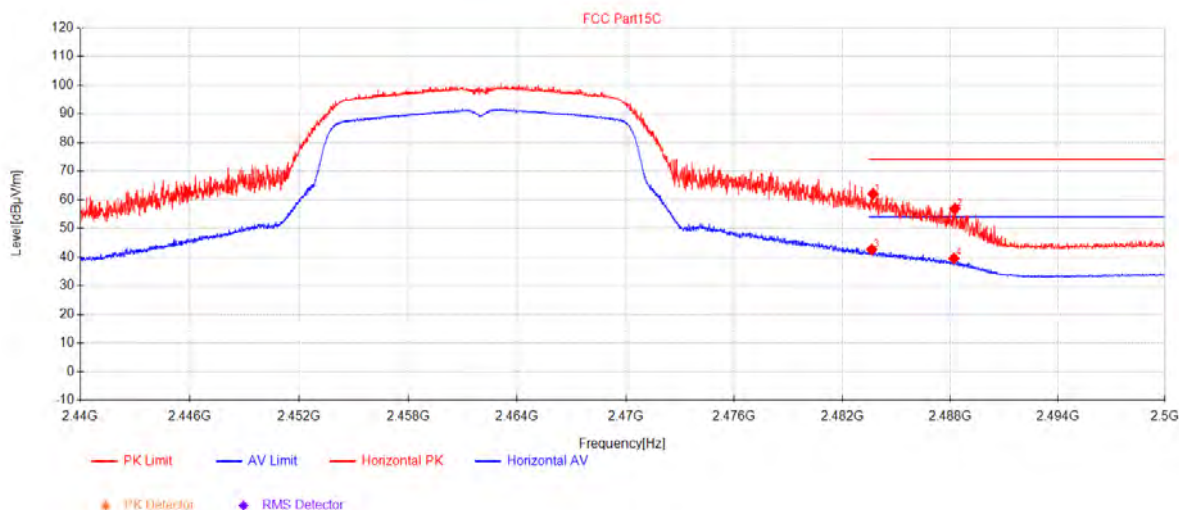
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Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.71	58.05	27.87	-23.96	61.96	74.00	12.04	116	23	Horizontal
2	2488.27	52.85	27.88	-23.93	56.79	74.00	17.21	116	23	Horizontal
3	2483.635	38.65	27.87	-23.96	42.56	54.00	11.44	116	23	Horizontal
4	2488.21	35.55	27.88	-23.93	39.49	54.00	14.51	116	23	Horizontal



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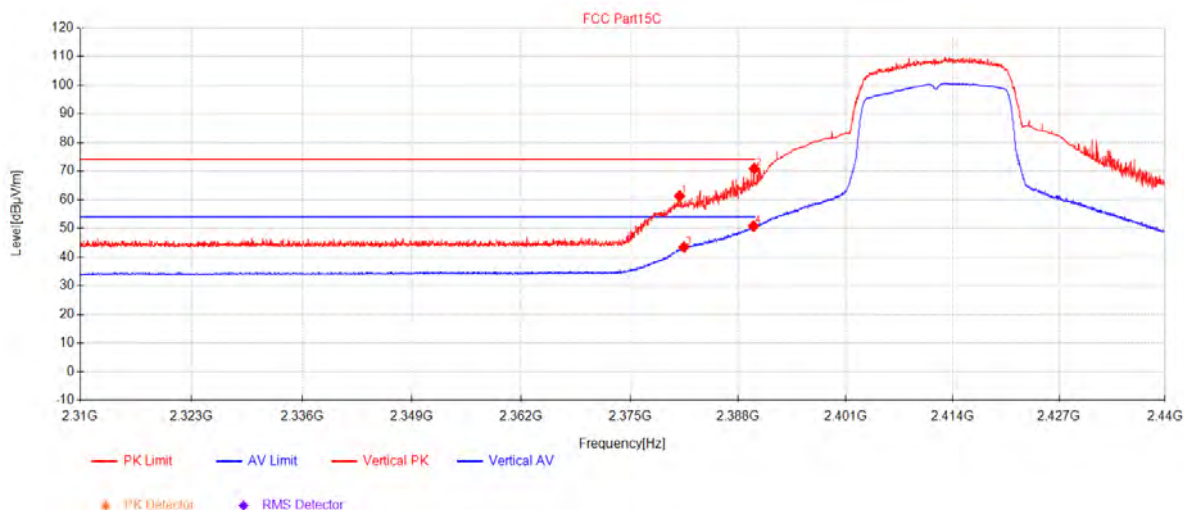
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Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2380.9475	58.02	27.66	-24.44	61.24	74.00	12.76	171	313	Vertical
2	2389.95	67.55	27.68	-24.42	70.81	74.00	3.19	171	313	Vertical
3	2381.4675	40.21	27.66	-24.44	43.43	54.00	10.57	171	313	Vertical
4	2389.8525	47.51	27.68	-24.42	50.77	54.00	3.23	171	313	Vertical



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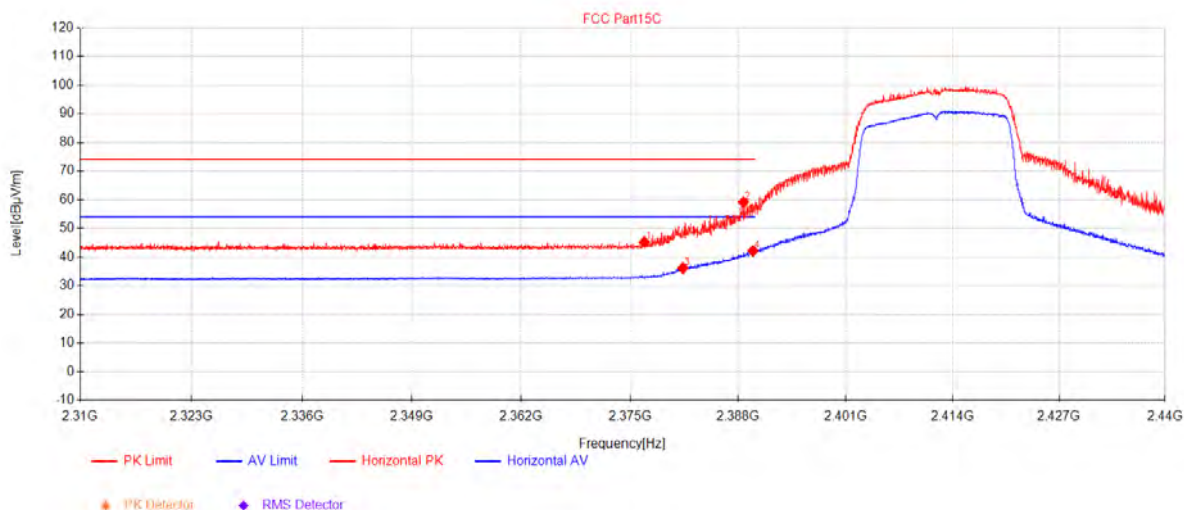
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NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2376.7225	42.02	27.65	-24.45	45.22	74.00	28.78	265	50	Horizontal
2	2388.6175	55.84	27.68	-24.43	59.09	74.00	14.91	265	50	Horizontal
3	2381.3375	32.91	27.66	-24.44	36.13	54.00	17.87	265	50	Horizontal
4	2389.7875	38.86	27.68	-24.42	42.12	54.00	11.88	265	50	Horizontal



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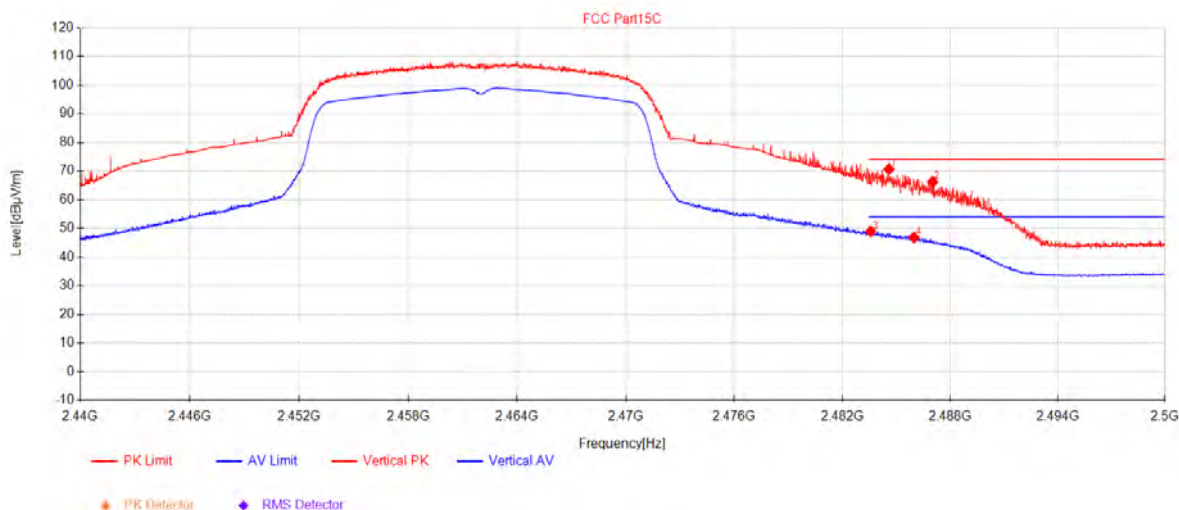
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NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2484.595	66.70	27.87	-23.95	70.62	74.00	3.38	165	314	Vertical
2	2487.025	62.25	27.87	-23.94	66.19	74.00	7.81	165	314	Vertical
3	2483.575	45.01	27.87	-23.96	48.92	54.00	5.08	165	314	Vertical
4	2485.99	42.86	27.87	-23.94	46.79	54.00	7.21	165	314	Vertical



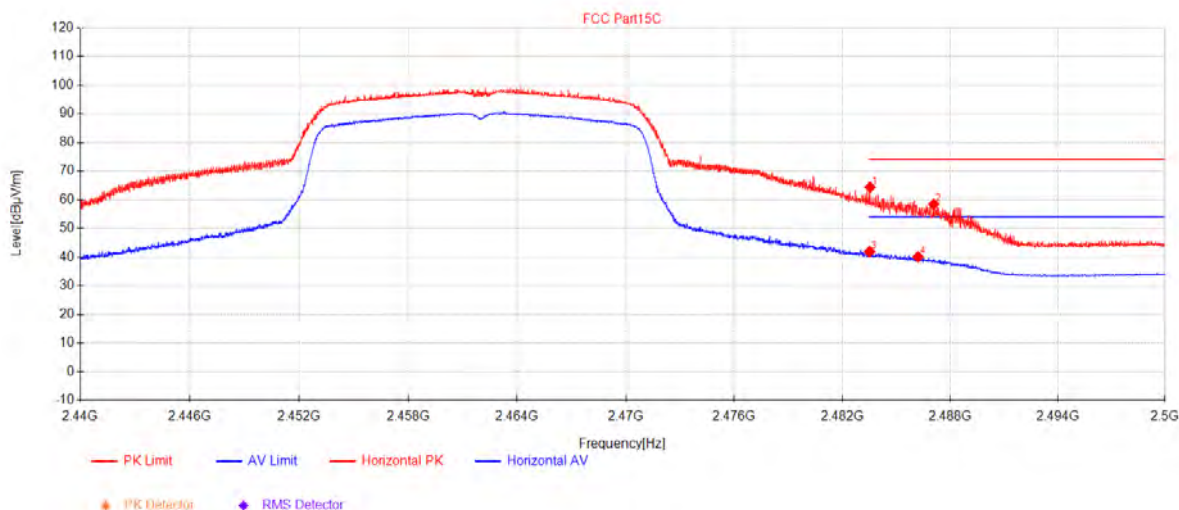
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802.11n20_Channel 11



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	2483.545	60.42	27.87	-23.96	64.33	74.00	9.67	143	59	Horizontal
2	2487.085	54.38	27.87	-23.94	58.32	74.00	15.68	143	59	Horizontal
3	2483.515	37.90	27.87	-23.96	41.81	54.00	12.19	143	59	Horizontal
4	2486.215	36.11	27.87	-23.94	40.04	54.00	13.96	143	59	Horizontal



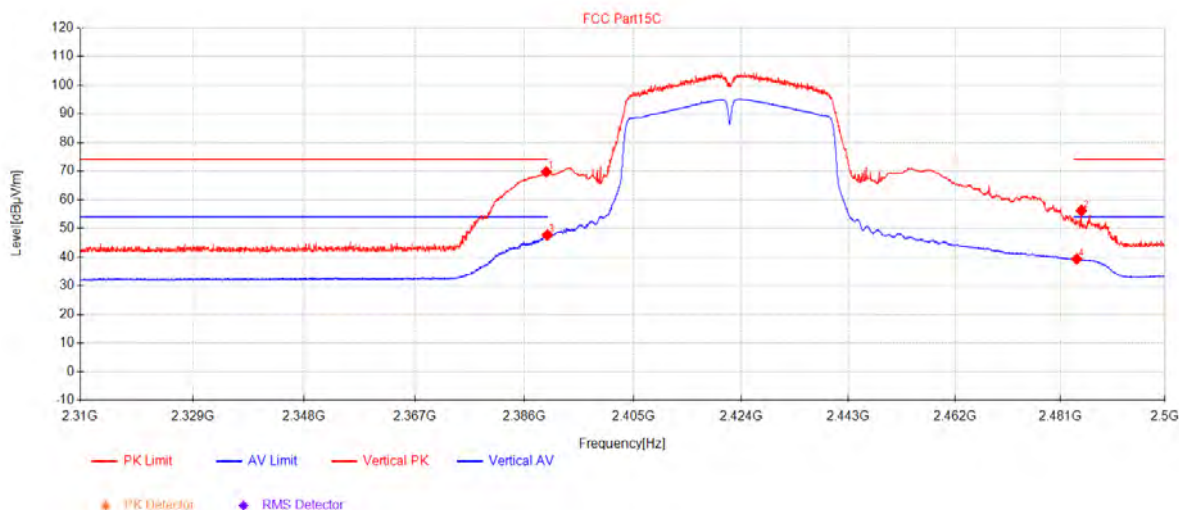
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802.11n40_Channel 03



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	2389.8033	66.41	27.68	-24.42	69.67	74.00	4.33	104	311	Vertical
2	2484.82	52.24	27.87	-23.95	56.16	74.00	17.84	104	311	Vertical
3	2389.9767	44.38	27.68	-24.42	47.64	54.00	6.36	104	311	Vertical
4	2483.98	35.36	27.87	-23.95	39.27	54.00	14.73	104	311	Vertical



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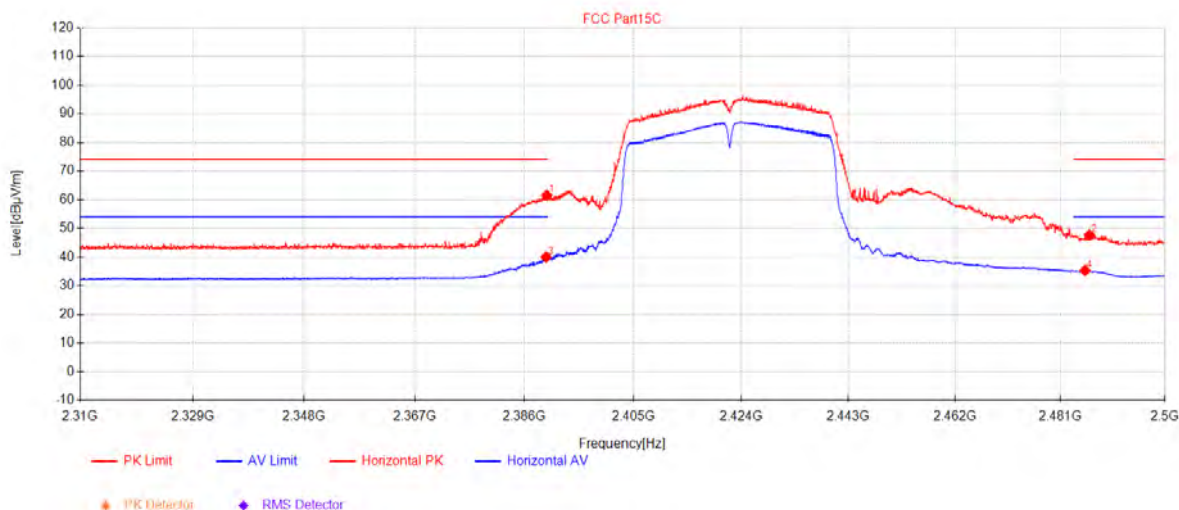
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802.11n40_Channel 03



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	2389.89	58.21	27.68	-24.42	61.47	74.00	12.53	146	56	Horizontal
2	2486.26	43.72	27.87	-23.94	47.65	74.00	26.35	146	56	Horizontal
3	2389.7599	36.69	27.68	-24.42	39.95	54.00	14.05	146	56	Horizontal
4	2485.48	31.34	27.87	-23.95	35.26	54.00	18.74	146	56	Horizontal



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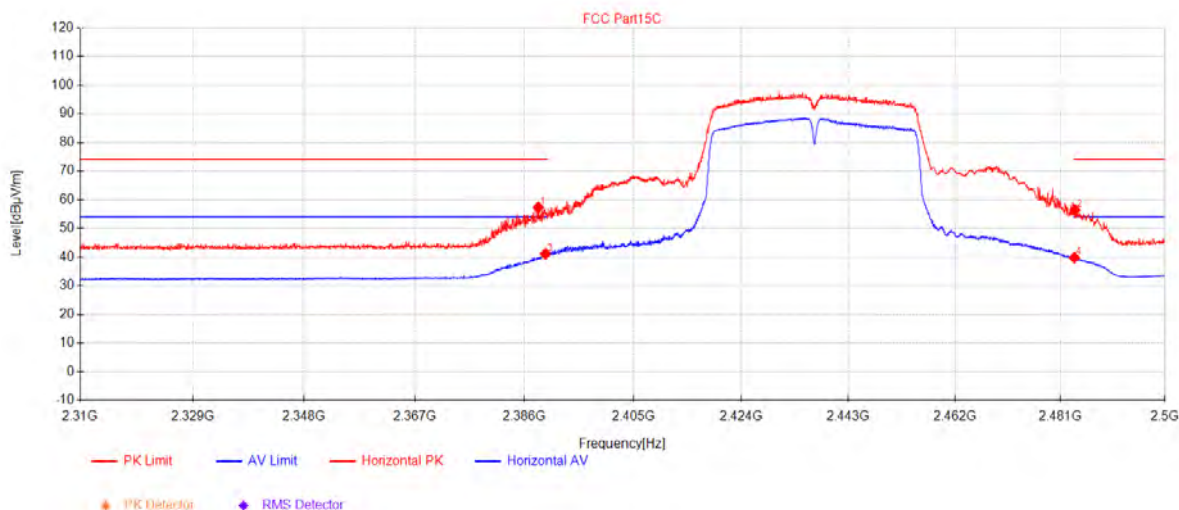
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802.11n40_Channel 06



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	2388.4161	54.01	27.68	-24.43	57.26	74.00	16.74	148	63	Horizontal
2	2483.62	52.51	27.87	-23.96	56.42	74.00	17.58	148	63	Horizontal
3	2389.6299	37.80	27.68	-24.42	41.06	54.00	12.94	148	63	Horizontal
4	2483.56	35.87	27.87	-23.96	39.78	54.00	14.22	148	63	Horizontal



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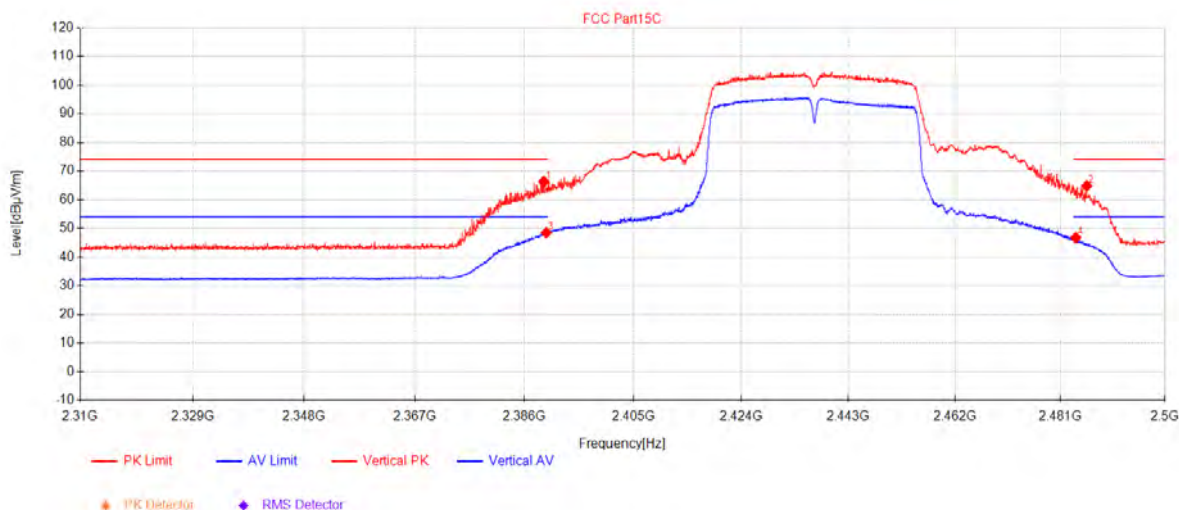
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802.11n40_Channel 06



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	2389.3698	63.03	27.68	-24.42	66.29	74.00	7.71	103	320	Vertical
2	2485.78	60.84	27.87	-23.95	64.77	74.00	9.23	103	320	Vertical
3	2389.8033	45.19	27.68	-24.42	48.45	54.00	5.55	103	320	Vertical
4	2483.8	42.79	27.87	-23.96	46.70	54.00	7.30	103	320	Vertical



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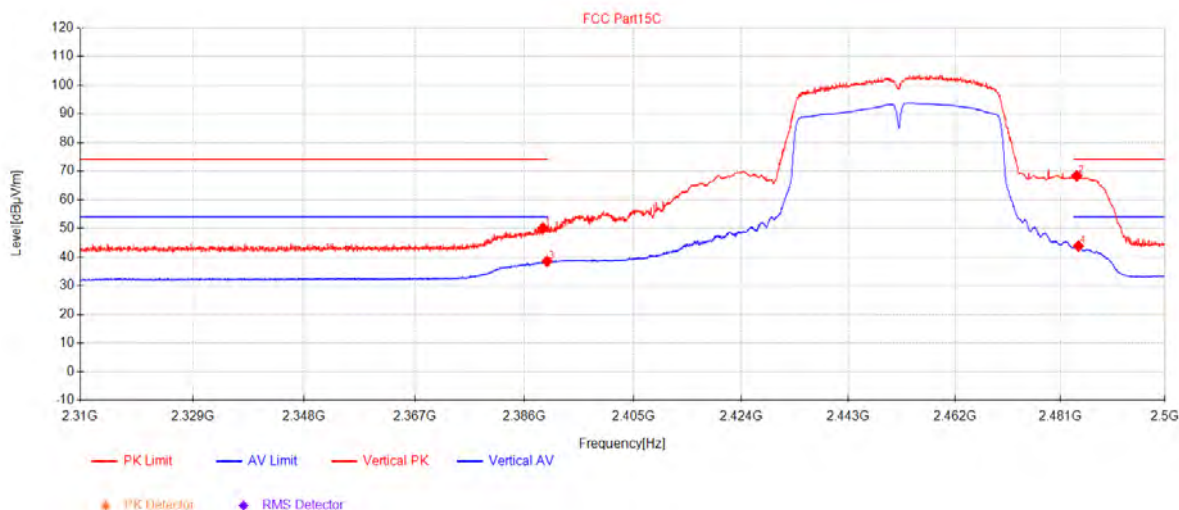
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802.11n40_Channel 09



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	2389.1964	46.80	27.68	-24.42	50.05	74.00	23.95	151	317	Vertical
2	2483.98	64.37	27.87	-23.95	68.28	74.00	5.72	151	317	Vertical
3	2389.9333	35.18	27.68	-24.42	38.44	54.00	15.56	151	317	Vertical
4	2484.28	39.90	27.87	-23.95	43.82	54.00	10.18	151	317	Vertical



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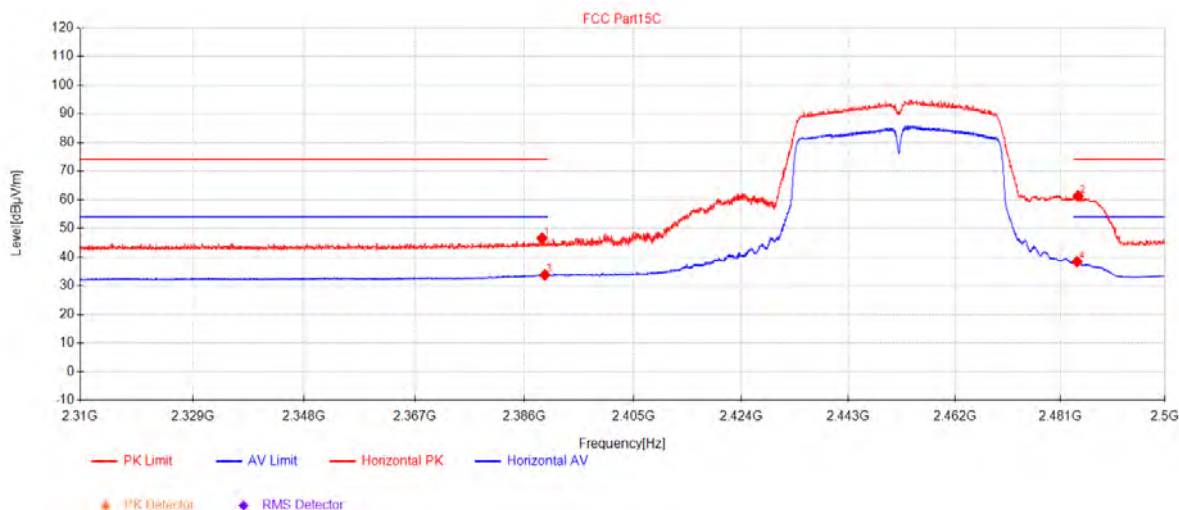
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Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2389.0664	43.29	27.68	-24.42	46.54	74.00	27.46	105	58	Horizontal
2	2484.22	57.37	27.87	-23.95	61.28	74.00	12.72	105	58	Horizontal
3	2389.5432	30.48	27.68	-24.42	33.74	54.00	20.26	105	58	Horizontal
4	2484.04	34.45	27.87	-23.95	38.36	54.00	15.64	105	58	Horizontal



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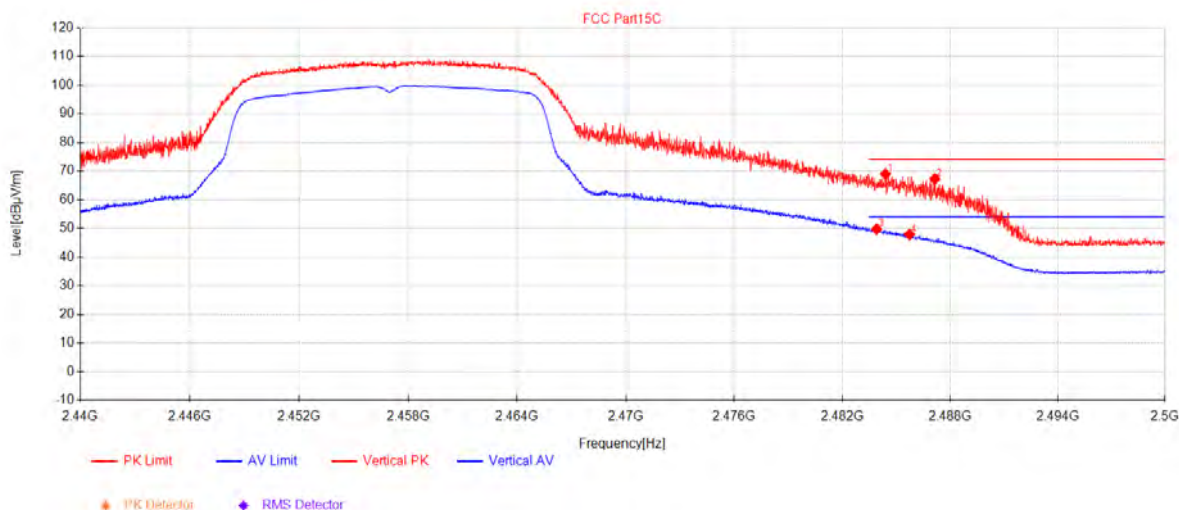
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802.11g_Channel 10



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	2484.4	65.00	27.87	-23.95	68.92	74.00	5.08	145	319	Vertical
2	2487.145	63.22	27.87	-23.94	67.16	74.00	6.84	145	319	Vertical
3	2483.905	45.79	27.87	-23.96	49.70	54.00	4.30	145	319	Vertical
4	2485.735	43.92	27.87	-23.95	47.85	54.00	6.15	145	319	Vertical



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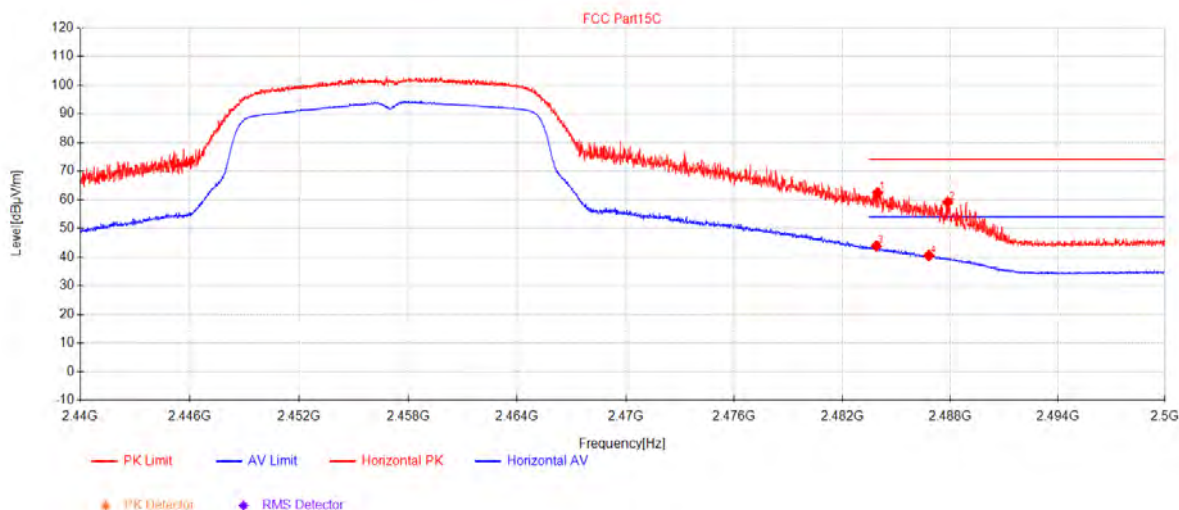
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802.11g_Channel 10



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	2483.965	58.45	27.87	-23.95	62.36	74.00	11.64	101	46	Horizontal
2	2487.865	55.10	27.88	-23.93	59.04	74.00	14.96	101	46	Horizontal
3	2483.89	39.91	27.87	-23.96	43.82	54.00	10.18	101	46	Horizontal
4	2486.815	36.54	27.87	-23.94	40.47	54.00	13.53	101	46	Horizontal



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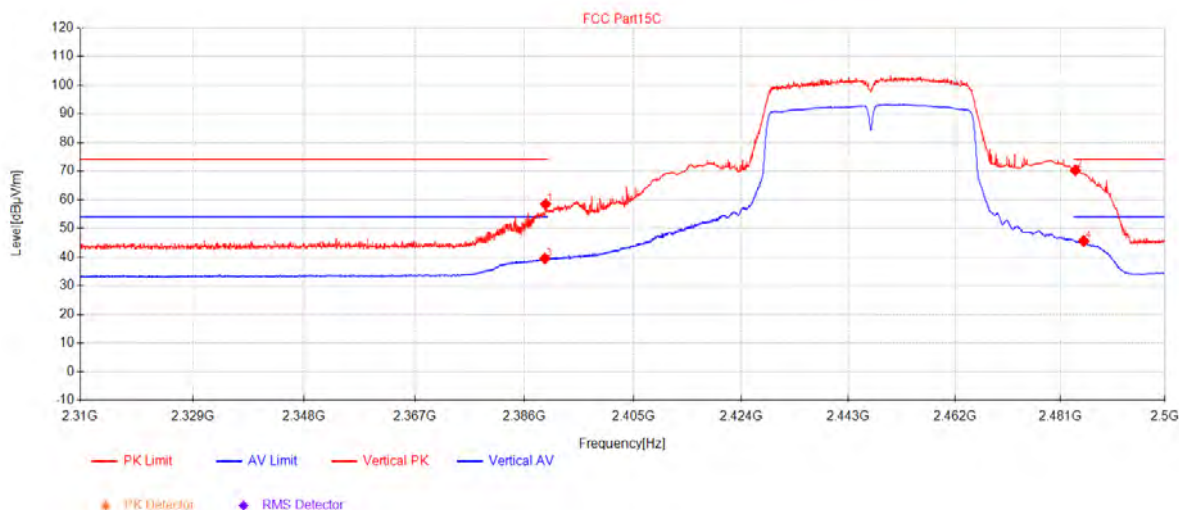
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802.1140_Channel 08



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	2389.6732	55.14	27.68	-24.42	58.40	74.00	15.60	101	300	Vertical
2	2483.74	66.31	27.87	-23.96	70.22	74.00	3.78	101	300	Vertical
3	2389.5432	36.18	27.68	-24.42	39.44	54.00	14.56	101	300	Vertical
4	2485.24	41.67	27.87	-23.95	45.59	54.00	8.41	101	300	Vertical



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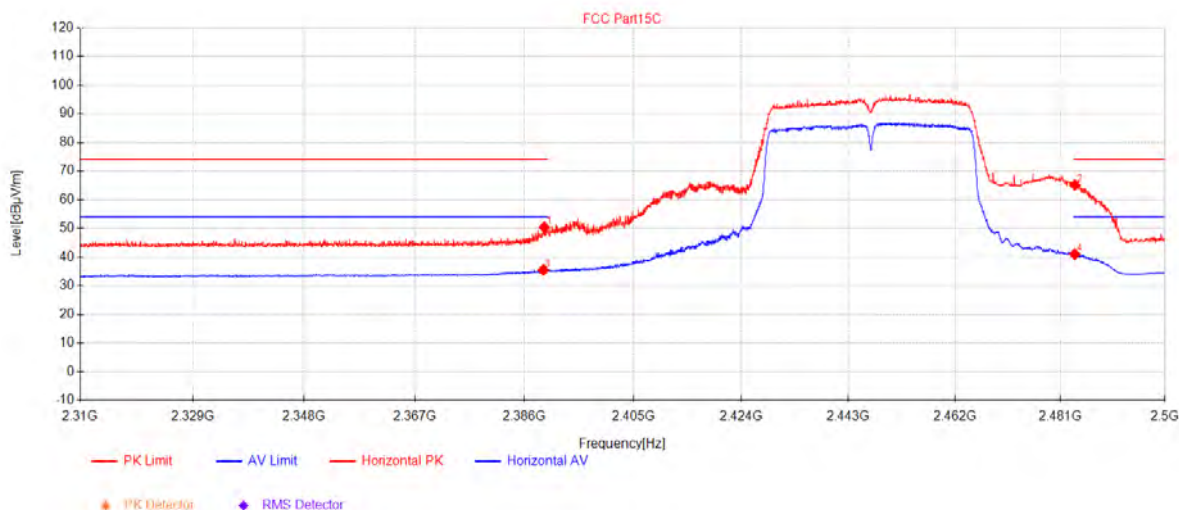
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802.1140_Channel 08



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	2389.4565	47.13	27.68	-24.42	50.39	74.00	23.61	103	48	Horizontal
2	2483.68	61.15	27.87	-23.96	65.06	74.00	8.94	103	48	Horizontal
3	2389.2831	32.21	27.68	-24.42	35.46	54.00	18.54	103	48	Horizontal
4	2483.62	37.05	27.87	-23.96	40.96	54.00	13.04	103	48	Horizontal

Remark:

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

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

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

AF = Antenna Factor(dB/m)

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

---End of Report---



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