

Document Title:	Radio Test Report		
Report No.:	CERT2621	Version	Rev 3.0

Radio Test Report

Product Name: Linux Communication Board.

Model Name: 2AGPT-PLNX3.

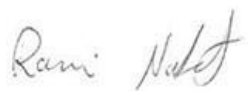
Applicant: SolarEdge Technologies Ltd.
1 HaMada Street, Herzeliya 4673335, Israel
Tel: +972-9-9576620.

Standards: 47 CFR FCC Part 15C, §15.247
ANSI C63.10:2020+COR.1- 2023
Canada RSS-247 Issue 3 (2023)
Canada RSS-Gen Issue 5 (2021) AMD 2

Test Date: 15 April 2025 - 31 August 2025

Issued Date: 1 September 2025

Tested by: 
Test Engineer – Ilya Manski

Approved by: 
EMC Lab Manager – Rami Nataf

Prepared by: EMC & Radio Laboratory-Solaredge
10 Tzela HaHar st., POB 56 Modi'in
7171001 Israel Tel: +972-52-4006994

Verdict Summary: Pass



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1. Test Summary

FCC Rules	ISED Rules	Test description	Verdict ¹
FCC §15.209, §15.205 §15.247(D)	RSS-GEN § 8.10 RSS-247 § 5.5	Spurious Emissions and Restricted Bands Compliance	Pass
FCC §15.247(A)	RSS-GEN § 6.7 RSS-247 § 5.2(A)	6dB Bandwidth & Occupied Bandwidth	Pass
FCC §15.247(E)	RSS-247 §5.2(B)	Power Spectral Density	Pass
FCC §15.247(B)(3)	RSS-247 §5.4(D)	Maximum Conducted Output Power	Pass
FCC §15.247(D)	RSS-247 §5.5	Conducted Out of Band Emission & Frequency Band Edge	Pass
FCC §15.207(A)	RSS-Gen §8.8	Conducted Emissions, Power Line	Pass
FCC §15.203	RSS-GEN §6.8	Antenna Requirement	Pass

¹ Based on the test result only, not include the measurement uncertainty ULab(dB) which is described on para. 3.4.

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2. Revision History

Version	Date	Performed By	Note
1.0	12 June 2025	Ilya Manski	
2.0	21 August 2025	Ilya Manski	Revised according to the certification body comments
3.0	31 August 2025	Ilya Manski	Revised according to the certification body comments

3. Test Facility

3.1. Address of the Laboratory:

10 Tzela HaHar st.,POB 56 Modi'in 7171001, Israel, Tel-972-52-4006994

3.2. Laboratory Accreditation/recognition/certification

- A2la - The Certificate Registration Number: 6185.01
- FCC Registration - Firm Registration Number: 898943
- IC-Registration - The Certificate Registration Number: IL1008

3.3. Software used:

Software Name	Software Version	Test Name
Keysight	A.33.03 SW version for N9038B	Radio testing
Keysight	BenchVue 2020 update 2.0	
Radimation	RadiMation 2025.1.2	

3.4. Measurement Uncertainty

The calculated uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

Parameter	Measurement Uncertainty (+/-)	Units
Occupied Channel Bandwidth	0.26	%
RF Output Power, conducted	1.20	dB
Power Spectral Density, Conducted	1.05	dB
Spurious emissions, conducted	1.05	dB
All emissions, radiated	4.86	dB
Temperature	1.6	°C
Humidity	1	%
DC and low-frequency voltages	0.9	%

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4. General Information

EUT Description:

Model name	2AGPT-PLNX3.
Working voltage	12VDC operated via AC/DC adapter
Mode of operation	Transceiver
Modulations	For Wi-Fi/b: DSSS, CCK For Wi-Fi/g: OFDM (BPSK, QPSK, 16QAM, 64QAM) For Wi-Fi/n: OFDM (BPSK, QPSK, 16QAM, 64QAM) For Wi-Fi/ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM per RU)
Operating Frequency Range	2412.0-2462.0MHz
Max. Peak power	22.35dBm
Number of Channels	11
FCC ID:	2AGPT-PLNX3
IC:	20916-PLNX3, HVIN:PLNX3
Bit rate (Mbit/s)	For Wi-Fi/b: 1, 2, 5.5, 11 For Wi-Fi/g: 6, 9, 12, 18, 24, 36, 48, 54 For Wi-Fi/n: 6.5, 13, 19.5, 26, 39, 52, 58.5, 65 For Wi-Fi/ax: 7.3, 14.6, 21.9, 29.3, 43.9, 58.5, 65.8, 73.1

Antenna details:

Model	Type	Brand	PN	Freq. (MHz)	Connector	Max. Gain 2400-2500MHz
AS0001-ANT-2	Dual Band Dipole Antenna	Solaredge	D2224AC	860-930 2400-2500	RP SMA	3dBi

AC/DC adapter details:

Model	Input	Output
FD10K-15120-1000	100-240V~50/60Hz 0.50A	12.0V DC 1000mA

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4.1. Description of Test Modes

011 channels are provided for 802.11b, 802.11g, 802.11n, and 802.11ax

Channel	Frequency	Channel	Frequency
1	2412MHz	7	2442MHz
2	2417MHz	8	2447MHz
3	2422MHz	9	2452MHz
4	2427MHz	10	2457MHz
5	2432MHz	11	2462MHz
6	2437MHz		

EUT tested on channels 1, 6, and 11.

EUT Exercise Software

“SolarEdge MercuryMon.application.exe” exercise software was used, and the power level is 21. The software and power level provided by the manufacturer.

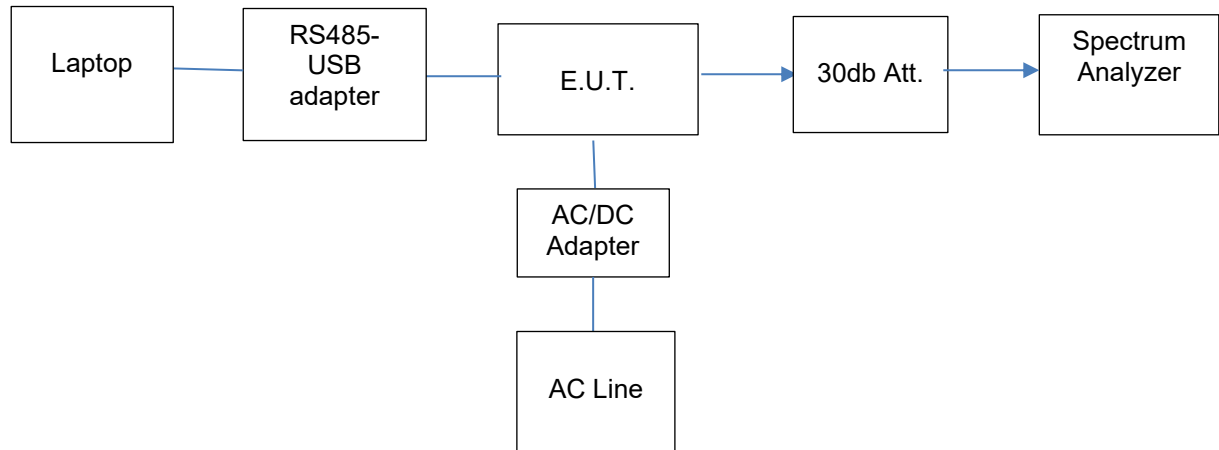
4.2. Worst case Bit rate

Final conducted/radiated emission for Wi-Fi b/g/n/ax modes tests were performed using the lowest bit rates for each different protocol type. The bit rates for each protocol are shown in the table below:

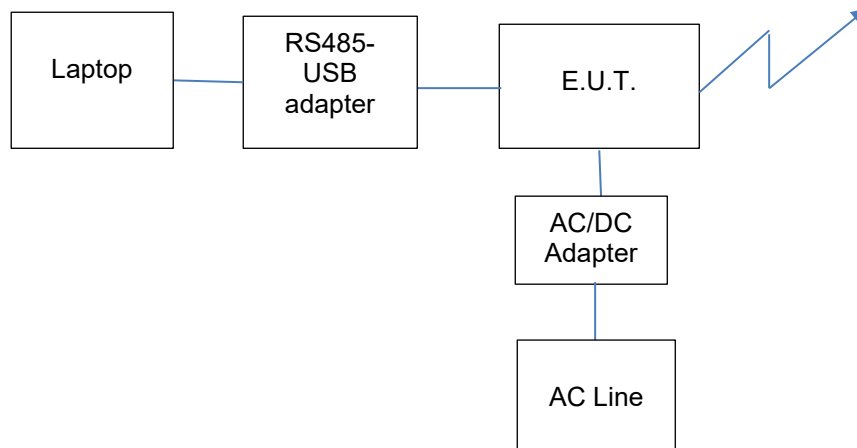
Protocol Type	“Worst case” Bit rate
Wi-Fi/b	1 Mbit/s
Wi-Fi/g	6 Mbit/s
Wi-Fi/n	6.5 Mbit/s (MCS0)
Wi-Fi/ax	7.3 Mbit/s (MCS0)

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4.1. Configuration of Tested System - Conducted



4.2. Configuration of Tested System – Radiated



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5. Spurious Emission and Restricted Bands Compliance

Test Date:	9-Jun-25	Temperature:	23°C
Tested By:	Ilya Manski	Pressure:	1030.2 hPa
Test Standard:	FCC §15.209, §15.205 §15.247(D) RSS-GEN § 8.10 RSS-247 § 5.5	Relative Humidity:	45%
Test Procedure:	ANSI C63.10:2020+COR.1- 2023 RSS-247 Issue 3 RSS-Gen Issue 5	Photograph:	Annex II
EUT orientation worst case- (3 orientations were investigated , X/Y/Z)	stand-up position (Y axis)- worst case	Measurement antenna < 30MHz orientation	Parallel, perpendicular, and ground-parallel
		Measurement antenna > 30MHz polarization	Vertical, Horizontal

5.1. Test Requirement:

Normal test conditions	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).
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5.2. Limits of Radiated Emission and Band Edge Measurement

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

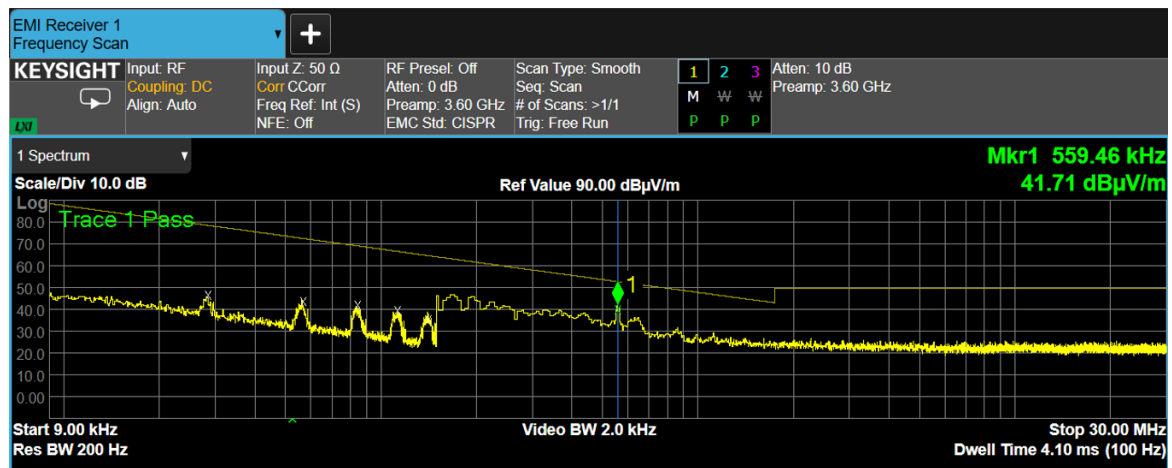
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5.3. Test Results:

5.3.1. Freq. Range 9kHz – 30MHz worst case.

Frequency (kHz)	Emission Level QP (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Angle (degrees)	Height (m)	Antenna orientation	Verdict
557.47	38.726	72.683	-33.957	180	1	Parallel	Pass
All other emissions were 20 dB below the relevant limit with respect to the relevant detectors							

Spurious Emission Plot 9kHz - 30MHz worst case Parallel orientation



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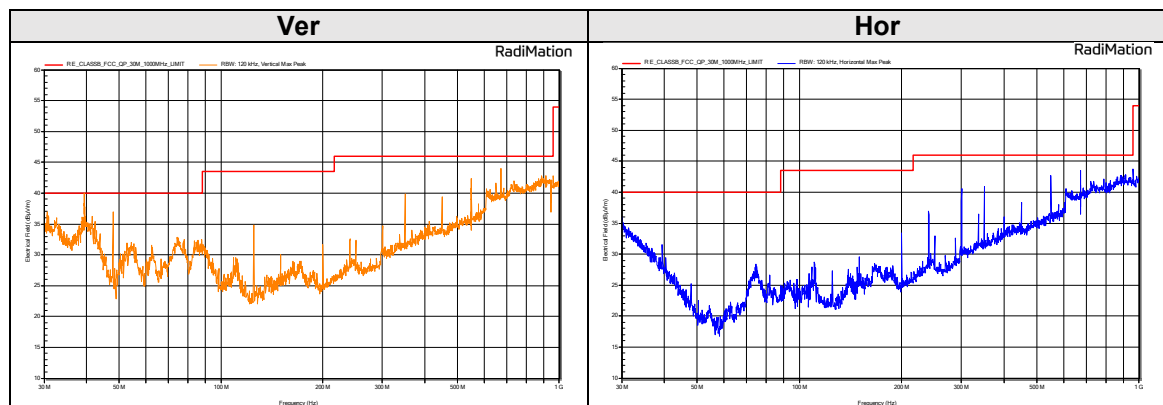
5.3.2. Freq. Range 30MHz - 1GHz worst case.

Frequency (MHz)	Emission Level QP (dBuV/m)	QP Limit (dBuV/m)	QP Margin (dB)	Angle (degrees)	Height (m)	Polarization	Verdict
30.66	31.5	40	-8.5	-20	1.48	Vertical	Pass
39.51	34.7	40	-5.3	-20	1	Vertical	Pass
48	35.4	40	-4.6	-200	1	Vertical	Pass
549.997	40.4	46	-5.6	25	1	Vertical	Pass
672.005	39.9	46	-6.1	-20	1	Horizontal	Pass
945.701	36.5	46	-9.5	-115	1.98	Vertical	Pass

Note:

1. Emission Level_[dBuV/m] = Scan emission level_[dBuV] + Antenna Factor_[dB/m] + Cable loss_[dB]
2. The other emission levels were very low against the limit.
3. Margin value = Emission Level - Limit value

Spurious Emission Plot 30MHz – 1GHz



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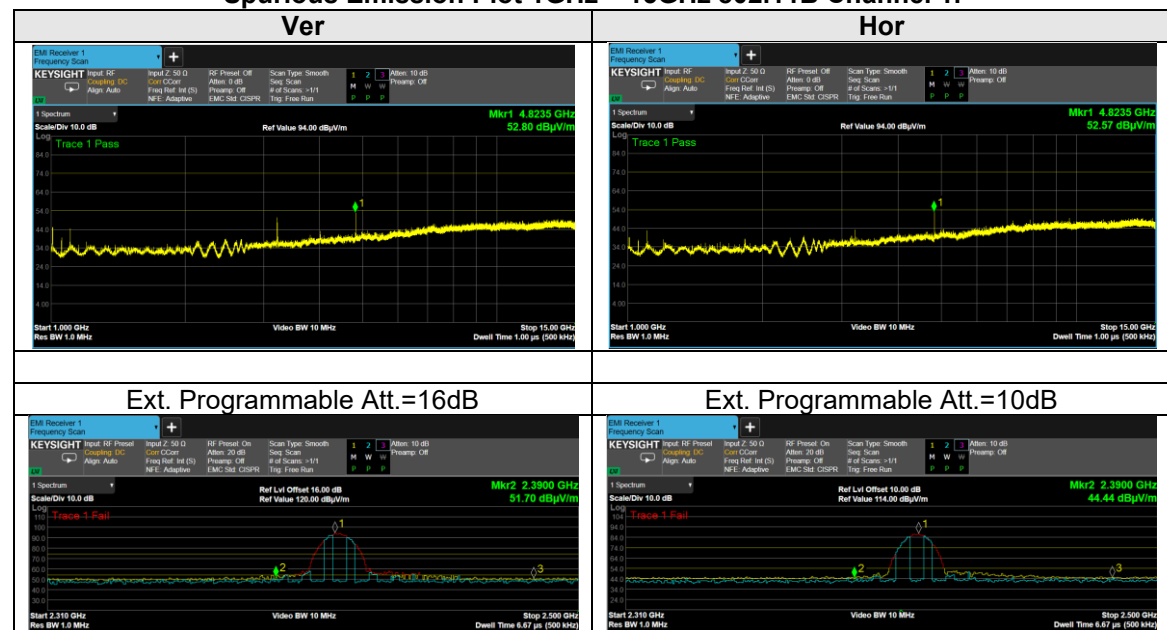
5.3.3. Freq. Range above 1GHz (802.11b) Channel 1.

Freq. (MHz)	Pol. (V/H)	Ant. Height (m.)	Table Angle (deg.)	Emission Level (dBuV/m)	Detector	LIMIT (dBuV/m)	Margin (dB)	Verdict
2310	V	1.5	22	50.269	PK	74	-23.731	Pass
				35.396	AV	54	-18.604	Pass
2390	V	1.5	22	55.072	PK	74	-18.928	Pass
				39.609	AV	54	-14.391	Pass
3215.8*	V	1	-180	54.101	PK	97	-42.899	Pass
4824	V	1.5	-166	53.861	PK	74	-20.139	Pass
				42.364	AV	54	-11.636	Pass
2310	H	1.5	22	43.988	PK	74	-30.012	Pass
				29.115	AV	54	-24.885	Pass
2390	H	1.5	22	45.785	PK	74	-28.215	Pass
				32.636	AV	54	-21.364	Pass
3215.9*	H	1.5	52	47.961	PK	97	-49.039	Pass
4824	H	2.2	-151	55.919	PK	74	-18.081	Pass
				44.544	AV	54	-9.456	Pass

Note:

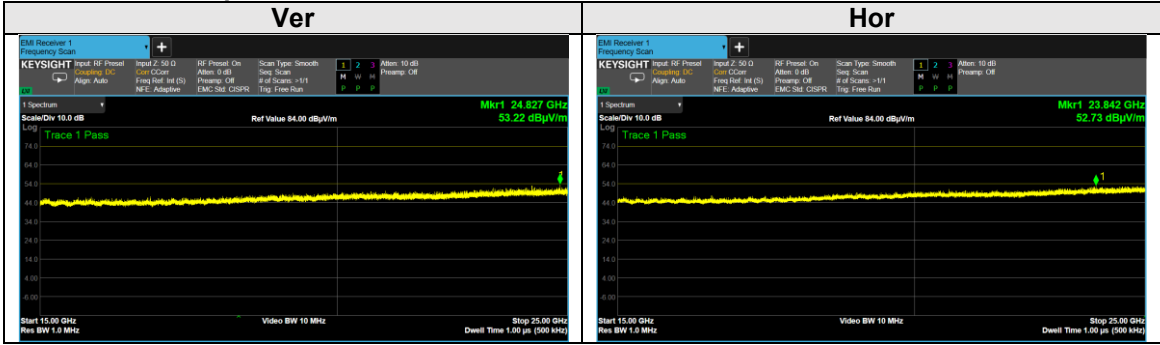
1. Emission Level_[dBuV/m] = Scan emission level_[dBuV] + Antenna Factor_[dB/m] + Cable loss_[dB] - LNA Factor_[dB].
2. Margin value = Emission Level-Limit value
3. “*” – Spurious emission, not in the restricted band. Limit = 20 dBc.

Spurious Emission Plot 1GHz – 15GHz 802.11B Channel 1.



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Spurious Emission Plot 15GHz – 25GHz 802.11B Channel 1.



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5.3.4. Freq. Range above 1GHz (802.11b) Channel 6.

Freq. (MHz)	Pol. (V/H)	Ant. Height (m.)	Table Angle (deg.)	Emission Level (dBuV/m)	Detector	LIMIT (dBuV/m)	Margin (dB)	Verdict
3249.1*	V	1.4	-40	52.672	PK	98	-45.328	Pass
4874	V	1.6	-170	55.306	PK	74	-18.694	Pass
				44.262	AV	54	-9.738	Pass
3249.1*	H	1.5	120	45.685	PK	98	-52.315	Pass
4874	H	2.2	-160	53.850	PK	74	-20.150	Pass
				42.406	AV	54	-11.594	Pass

Note:

1. Emission Level_[dBuV/m] = Scan emission level_[dBuV] + Antenna Factor_[dB/m] + Cable loss_[dB] - LNA Factor_[dB].
2. Margin value = Emission Level-Limit value
3. “*” – Spurious emission, not in restricted band. Limit = 20 dBc.

Spurious Emission Plot 1GHz – 15GHz 802.11B Channel 6.



Spurious Emission Plot 15GHz – 25GHz 802.11B Channel 6.



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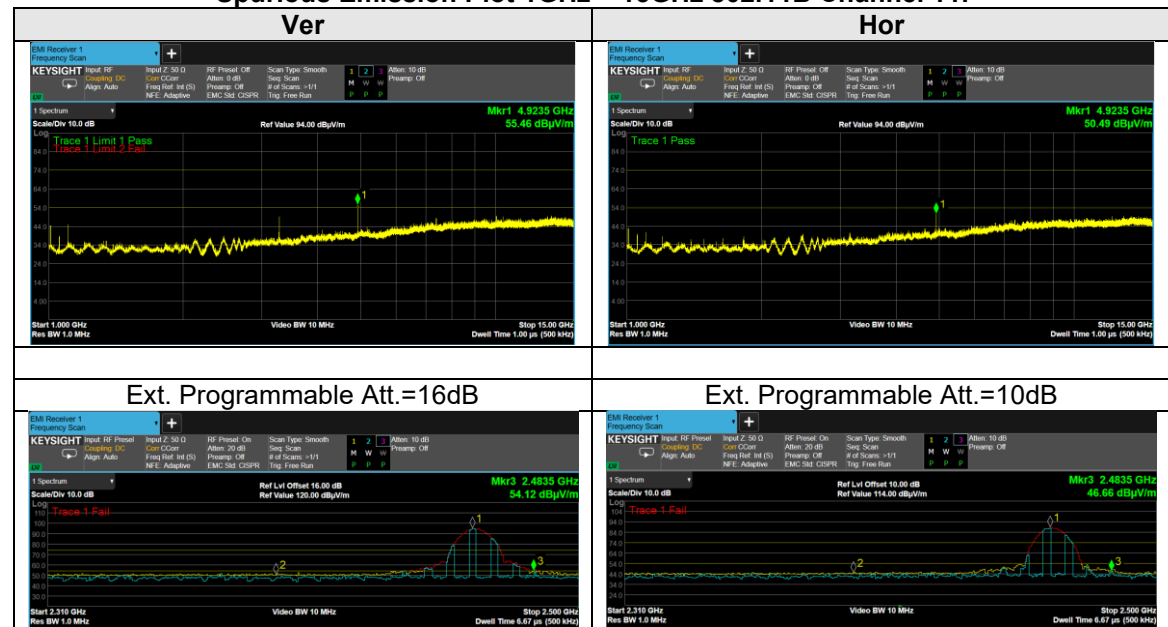
5.3.5. Freq. Range above 1GHz (802.11b) Channel 11.

Freq. (MHz)	Pol. (V/H)	Ant. Height (m.)	Table Angle (deg.)	Emission Level (dBuV/m)	Detector	LIMIT (dBuV/m)	Margin (dB)	Verdict
2483.5	V	1.5	22	56.368	PK	74	-17.632	Pass
				41.549	AV	54	-12.451	Pass
2500	V	1.5	22	52.169	PK	74	-21.831	Pass
				37.296	AV	54	-16.704	Pass
3282.5*	V	1.2	-43	50.405	PK	98	-47.595	Pass
4924	V	1.6	-180	56.268	PK	74	-17.732	Pass
				45.044	AV	54	-8.956	Pass
2483.5	H	1.5	22	48.320	PK	74	-25.680	Pass
				35.113	AV	54	-18.887	Pass
2500	H	1.5	22	45.296	PK	74	-28.704	Pass
				30.423	AV	54	-23.577	Pass
4924	H	2.2	-160	55.544	PK	74	-18.456	Pass
				44.242	AV	54	-9.758	Pass

Note:

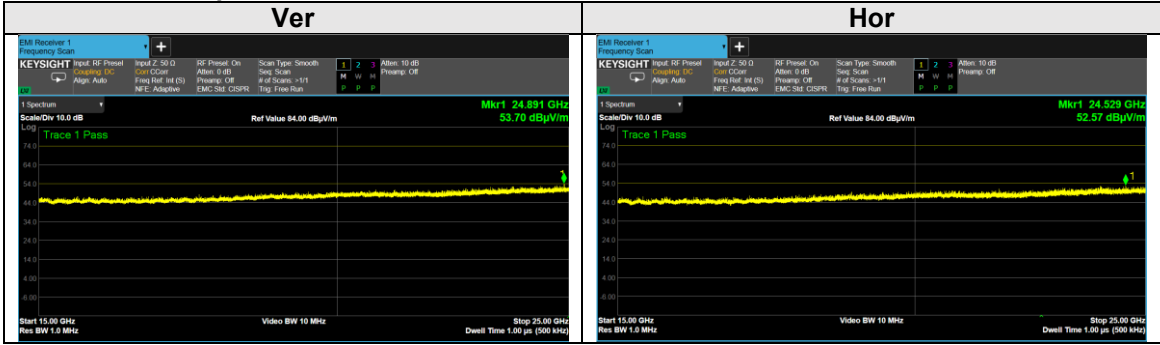
1. Emission Level_[dBuV/m] = Scan emission level_[dBuV] + Antenna Factor_[dB/m] + Cable loss_[dB] - LNA Factor_[dB].
2. Margin value = Emission Level-Limit value
3. “*” – Spurious emission, not in restricted band. Limit = 20 dBc.

Spurious Emission Plot 1GHz – 15GHz 802.11B Channel 11.



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Spurious Emission Plot 15GHz – 25GHz 802.11B Channel 11.



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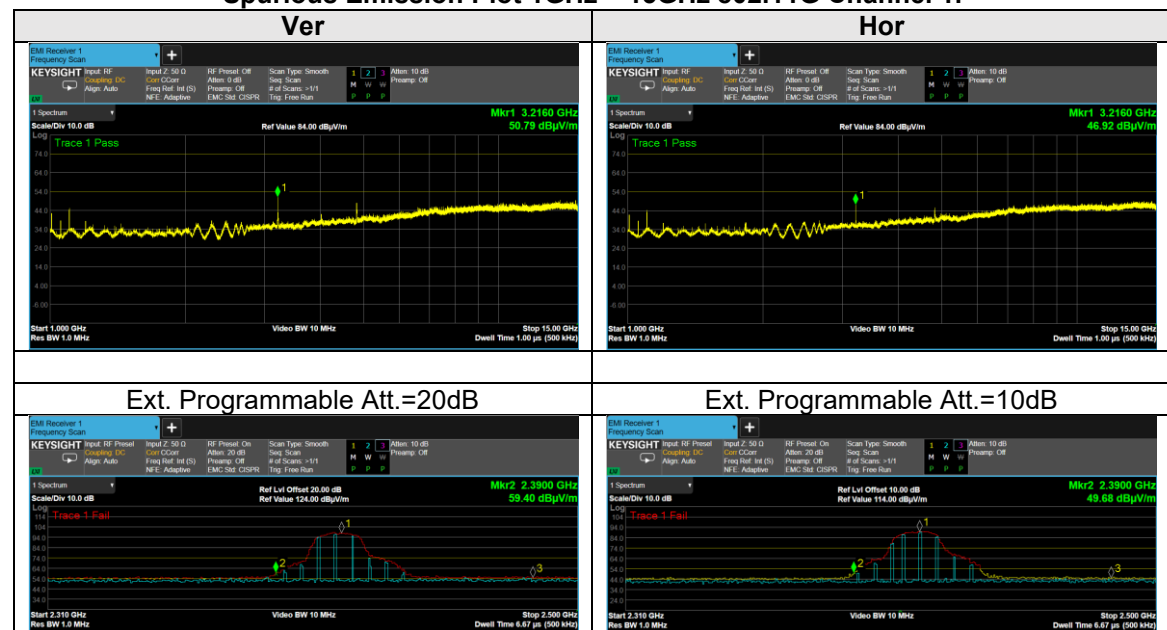
5.3.6. Freq. Range above 1GHz (802.11g) Channel 1.

Freq. (MHz)	Pol. (V/H)	Ant. Height (m.)	Table Angle (deg.)	Emission Level (dBuV/m)	Detector	LIMIT (dBuV/m)	Margin (dB)	Verdict
2310	V	1.5	22	55.132	PK	74	-18.868	Pass
				40.259	AV	54	-13.741	Pass
2390	V	1.5	22	60.680	PK	74	-13.320	Pass
				43.015	AV	54	-10.985	Pass
3216*	V	1.5	180	50.790	PK	100	-49.210	Pass
4824	V	1.6	-180	48.422	PK	74	-25.578	Pass
				28.831	AV	54	-25.169	Pass
2310	H	1.5	22	45.214	PK	74	-28.786	Pass
				30.341	AV	54	-23.659	Pass
2390	H	1.5	22	51.791	PK	74	-22.209	Pass
				33.058	AV	54	-20.942	Pass
3216*	H	1.5	74	46.920	PK	100	-53.080	Pass
4824	H	2.2	-160	45.267	PK	74	-28.733	Pass
				25.744	AV	54	-28.256	Pass

Note:

1. Emission Level_[dBuV/m] = Scan emission level_[dBuV] + Antenna Factor_[dB/m] + Cable loss_[dB] - LNA Factor_[dB].
2. Margin value = Emission Level-Limit value
3. “*” – Spurious emission, not in restricted band. Limit = 20 dBc.

Spurious Emission Plot 1GHz – 15GHz 802.11G Channel 1.



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Spurious Emission Plot 15GHz – 25GHz 802.11G Channel 1.



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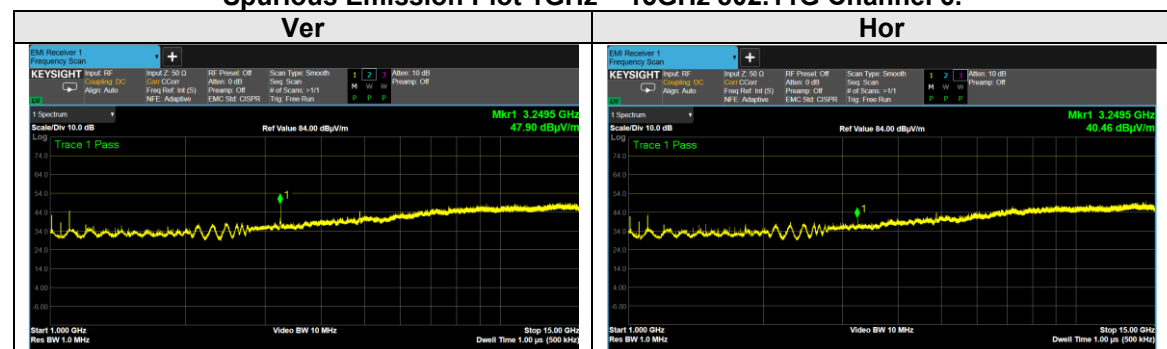
5.3.7. Freq. Range above 1GHz (802.11g) Channel 6.

Freq. (MHz)	Pol. (V/H)	Ant. Height (m.)	Table Angle (deg.)	Emission Level (dBuV/m)	Detector	LIMIT (dBuV/m)	Margin (dB)	Verdict
3249.5*	V	1.5	-180	47.900	PK	100	-52.100	Pass
4874	V	1.6	-180	44.869	PK	74	-29.131	Pass
				26.346	AV	54	-27.654	Pass
4874	H	2.2	-160	44.232	PK	74	-29.768	Pass
				25.709	AV	54	-28.291	Pass

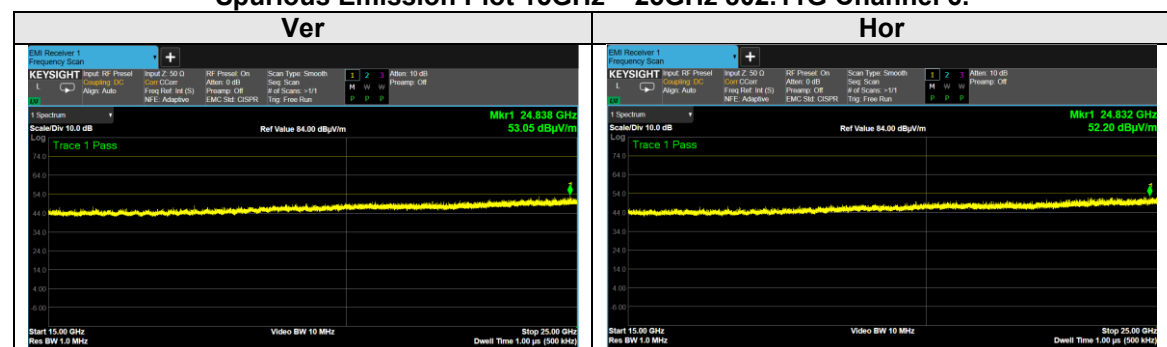
Note:

1. Emission Level_[dBuV/m] = Scan emission level_[dBuV] + Antenna Factor_[dB/m] + Cable loss_[dB] - LNA Factor_[dB].
2. Margin value = Emission Level-Limit value
3. “*” – Spurious emission, not in restricted band. Limit = 20 dBc.

Spurious Emission Plot 1GHz – 15GHz 802.11G Channel 6.



Spurious Emission Plot 15GHz – 25GHz 802.11G Channel 6.



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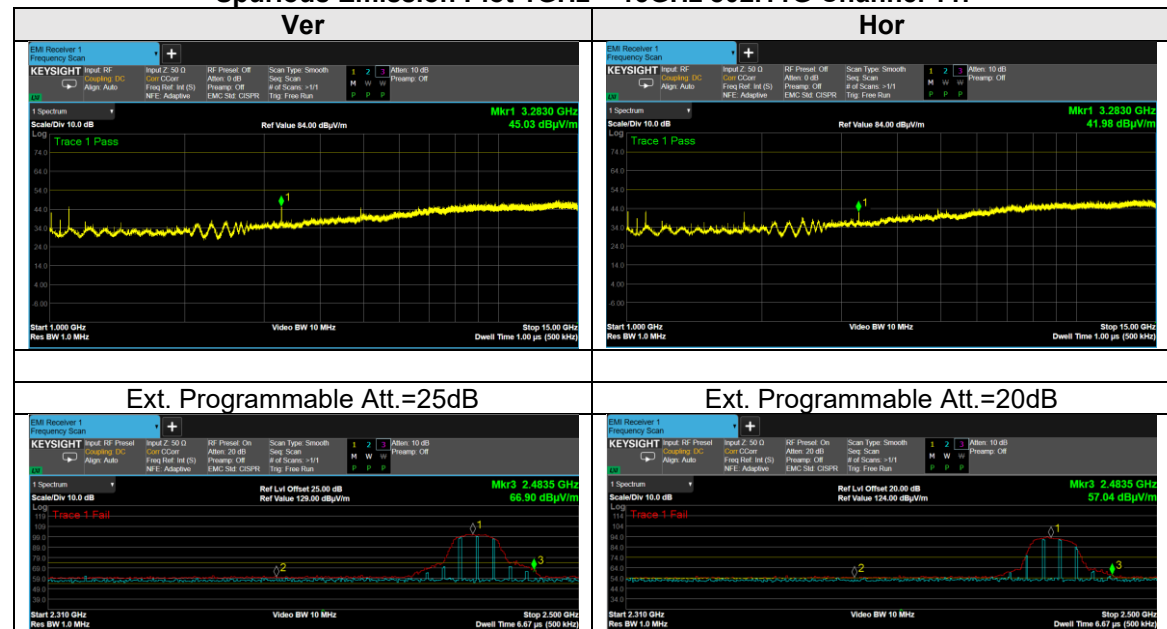
5.3.8. Freq. Range above 1GHz (802.11g) Channel 11.

Freq. (MHz)	Pol. (V/H)	Ant. Height (m.)	Table Angle (deg.)	Emission Level (dBuV/m)	Detector	LIMIT (dBuV/m)	Margin (dB)	Verdict
2483.5	V	1.5	22	68.090	PK	74	-5.910	Pass
				48.273	AV	54	-5.727	Pass
2500	V	1.5	22	59.130	PK	74	-14.870	Pass
				44.257	AV	54	-9.743	Pass
3283*	V	1.5	-180	45.030	PK	101	-55.970	Pass
4924	V	1.6	-180	46.264	PK	74	-27.736	Pass
				27.916	AV	54	-26.084	Pass
2483.5	H	1.5	22	59.863	PK	74	-14.137	Pass
				43.113	AV	54	-10.887	Pass
2500	H	1.5	22	55.069	PK	74	-18.931	Pass
				40.196	AV	54	-13.804	Pass
4924	H	2.2	-160	43.953	PK	74	-30.047	Pass
				25.430	AV	54	-28.570	Pass

Note:

1. Emission Level_[dBuV/m] = Scan emission level_[dBuV] + Antenna Factor_[dB/m] + Cable loss_[dB] - LNA Factor_[dB].
2. Margin value = Emission Level-Limit value
3. “*” – Spurious emission, not in restricted band. Limit = 20 dBc.

Spurious Emission Plot 1GHz – 15GHz 802.11G Channel 11.



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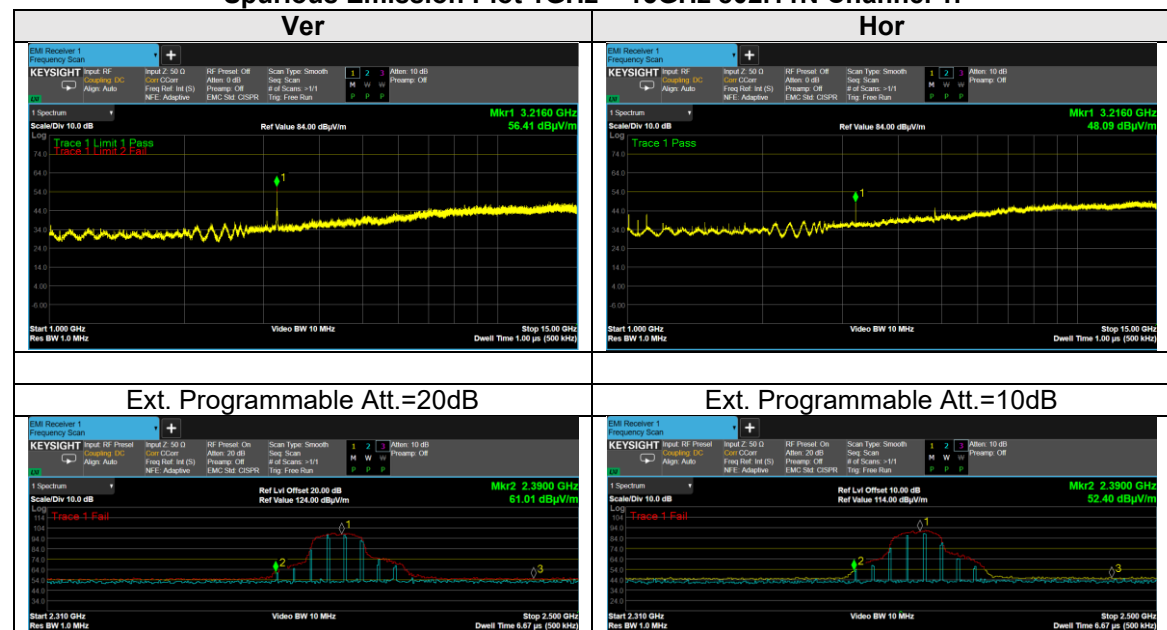
5.3.9. Freq. Range above 1GHz (802.11n) Channel 1.

Freq. (MHz)	Pol. (V/H)	Ant. Height (m.)	Table Angle (deg.)	Emission Level (dBuV/m)	Detector	LIMIT (dBuV/m)	Margin (dB)	Verdict
2310	V	1.5	22	56.264	PK	74	-17.736	Pass
				41.391	AV	54	-12.609	Pass
2390	V	1.5	22	62.665	PK	74	-11.335	Pass
				43.135	AV	54	-10.865	Pass
3216*	V	1.5	22	56.410	PK	101	-44.59	Pass
4824	V	1.6	-170	46.521	PK	74	-27.479	Pass
				27.998	AV	54	-26.002	Pass
2310	H	1.5	22	46.593	PK	74	-27.407	Pass
				31.720	AV	54	-22.280	Pass
2390	H	1.5	22	53.870	PK	74	-20.130	Pass
				33.195	AV	54	-20.805	Pass
3216*	H	1.5	22	48.090	PK	101	-52.910	Pass
4824	H	2.2	-160	45.239	PK	74	-28.761	Pass
				26.716	AV	54	-27.284	Pass

Note:

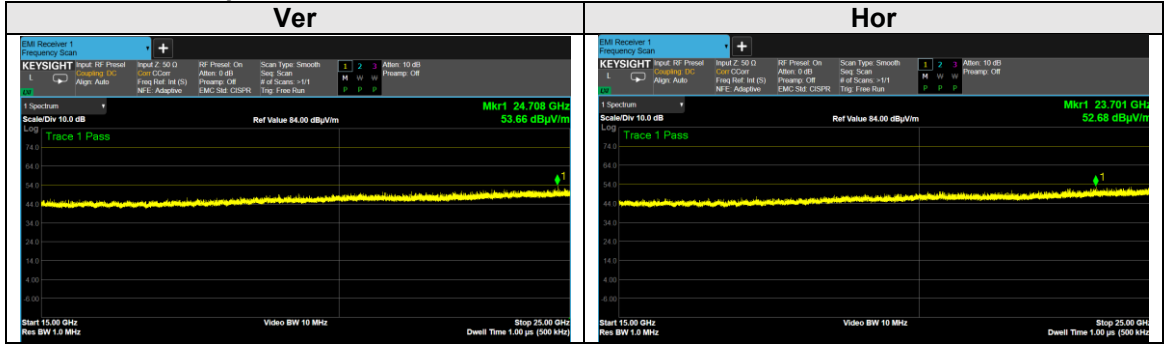
1. Emission Level_[dBuV/m] = Scan emission level_[dBuV] + Antenna Factor_[dB/m] + Cable loss_[dB] - LNA Factor_[dB].
2. Margin value = Emission Level-Limit value
3. “*” – Spurious emission, not in restricted band. Limit = 20 dBc.

Spurious Emission Plot 1GHz – 15GHz 802.11N Channel 1.



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Spurious Emission Plot 15GHz – 25GHz 802.11N Channel 1.



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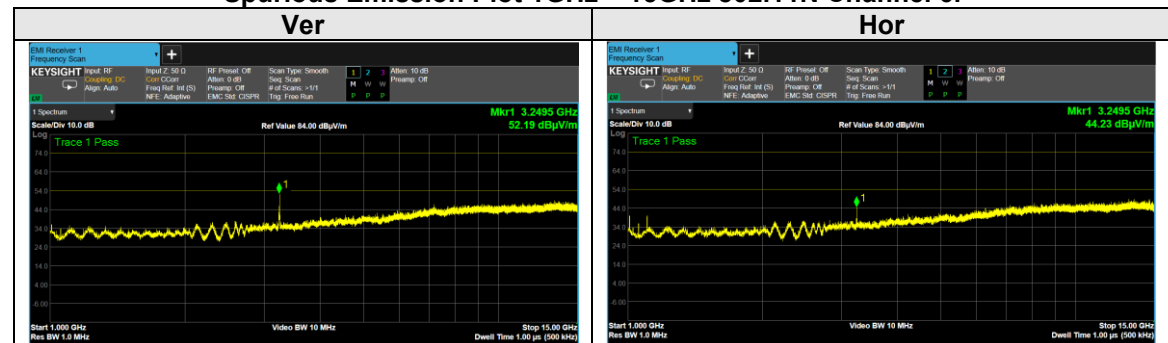
5.3.10.Freq. Range above 1GHz (802.11n) Channel 6.

Freq. (MHz)	Pol. (V/H)	Ant. Height (m.)	Table Angle (deg.)	Emission Level (dBuV/m)	Detector	LIMIT (dBuV/m)	Margin (dB)	Verdict
3249.5*	V	1.5	22	52.190	PK	101	-48.81	Pass
4874	V	1.6	-170	44.569	PK	74	-29.431	Pass
				26.046	AV	54	-27.954	Pass
3249.5*	H	1.5	22	44.230	PK	101	-56.77	Pass
4874	H	2.2	-160	44.237	PK	74	-29.763	Pass
				25.714	AV	54	-28.286	Pass

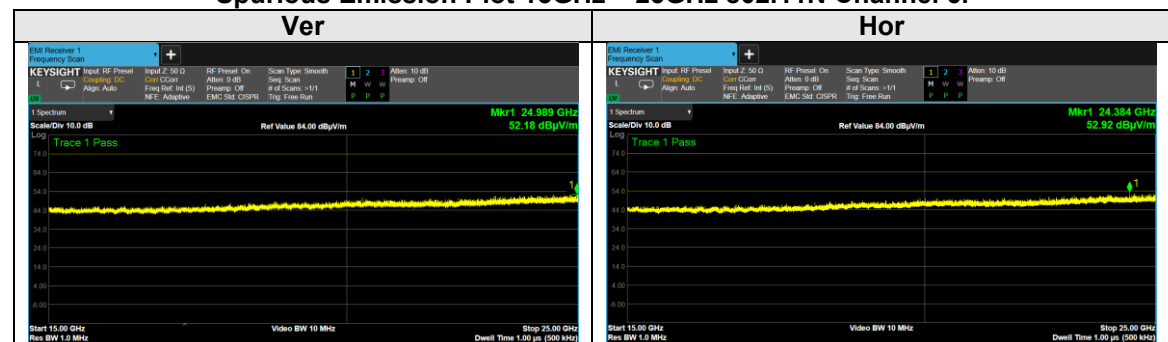
Note:

1. Emission Level_[dBuV/m] = Scan emission level_[dBuV] + Antenna Factor_[dB/m] + Cable loss_[dB] - LNA Factor_[dB].
2. Margin value = Emission Level-Limit value
3. “*” – Spurious emission, not in restricted band. Limit = 20 dBc.

Spurious Emission Plot 1GHz – 15GHz 802.11N Channel 6.



Spurious Emission Plot 15GHz – 25GHz 802.11N Channel 6.



Document Title:	Radio Test Report		
Report No.:	CERT2621	Version	Rev 3.0

5.3.11.Freq. Range above 1GHz (802.11n) Channel 11.

Freq. (MHz)	Pol. (V/H)	Ant. Height (m.)	Table Angle (deg.)	Emission Level (dBuV/m)	Detector	LIMIT (dBuV/m)	Margin (dB)	Verdict
2483.5	V	1.5	22	68.977	PK	74	-5.023	Pass
				48.425	AV	54	-5.575	Pass
2500	V	1.5	22	60.322	PK	74	-13.678	Pass
				45.449	AV	54	-8.551	Pass
3282.8*	V	1.5	22	51.520	PK	101	-49.480	Pass
4924	V	1.6	-180	45.028	PK	74	-28.972	Pass
				26.505	AV	54	-27.495	Pass
2483.5	H	1.5	22	60.980	PK	74	-13.020	Pass
				39.664	AV	54	-14.336	Pass
2500	H	1.5	22	51.469	PK	74	-22.531	Pass
				36.596	AV	54	-17.404	Pass
4924	H	2.2	-170	44.869	PK	74	-29.131	Pass
				26.346	AV	54	-27.654	Pass

Note:

1. Emission Level_[dBuV/m] = Scan emission level_[dBuV] + Antenna Factor_[dB/m] + Cable loss_[dB] - LNA Factor_[dB].
2. Margin value = Emission Level-Limit value
3. “*” – Spurious emission, not in restricted band. Limit = 20 dBc.

Spurious Emission Plot 1GHz – 15GHz 802.11N Channel 11.

