

Dates of Tests: April 8 ~ May 6, 2021
Test Report S/N: LR500112105I
Test Site : LTA CO., LTD.

CERTIFICATION OF COMPLIANCE

FCC ID.

2AMMIMIR-T07

APPLICANT

MIRO Corporation

Equipment Class	:	Digital Transmission System (DTS)
Manufacturing Description	:	Home appliances WiFi Card
Manufacturer	:	MIRO Corporation
Model name	:	MIR_t07
Test Device Serial No.:	:	Identical prototype
Rule Part(s)	:	FCC Part 15.247 Subpart C ; ANSI C-63.4-2014 ANSI C-63.10-2013
Frequency Range	:	2412 MHz ~ 2462 MHz(802.11 b/g/n20)
Max. Output Power	:	Max 7.40 dBm – Conducted(802.11 b) Max 4.08 dBm – Conducted(802.11 g) Max 4.57 dBm – Conducted(802.11 n20)
Data of issue	:	May 7, 2021

This test report is issued under the authority of:



Ja-Beom, Koo / Manager

The test was supervised by:



Jae-hum, Yeon / Test Engineer

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NVLAP LAB Code.: 200723-0

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1. General information

1-1 Test Performed

Company name : LTA Co., Ltd.
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Quality control in the testing laboratory is implemented as per ISO/IEC 17025 which is the “General requirements for the competents of calibration and testing laboratory”.

1-2 Accredited agencies

LTA Co., Ltd. is approved to perform EMC testing by the following agencies:

Agency	Country	Accreditation No.	Validity	Reference
NVLAP	U.S.A	200723-0	2021-09-30	ECT accredited Lab.
	KOREA		-	
RRA	U.S.A	KR0049	2023-04-08	RRA accredited Lab.
	CANADA		2022-10-18	
		C-14948	2023-09-10	
VCCI	JAPAN	T-12416	2023-09-10	VCCI registration
		R-14483	2023-10-15	
		G-10847	2021-12-13	
KOLAS	KOREA	KT551	2021-08-20	KOLAS accredited Lab.

3. Test Report

3.1 Summary of tests

FCC Part Section(s)	Parameter	Limit	Test Condition	Status (note 1)
15.247(a)	6 dB Bandwidth	> 500 kHz	Conducted	C
15.247(b)	Transmitter Peak Output Power	< 1 Watt		C
15.247(d)	Transmitter Power Spectral Density	< 8 dBm @ 3 kHz		C
15.247(d)	Band Edge	> 20 dBc		C
15.209	Field Strength of Harmonics	Emission	Radiated	C
15.207	AC Conducted Emissions	Emissions	Conducted	NA
15.203	Antenna requirement	-	-	C

Note 1: C=Complies NC=Not Complies NT=Not Tested NA=Not Applicable

Note 2: The data in this test report are traceable to the national or international standards.

→ Antenna Requirement

MIRO Corporation. FCC ID: 2AMMIMIR-T07 unit complies with the requirement of §15.203.

The antenna type is Pattern Antenna

The sample was tested according to the following specification:

*FCC Parts 15.247; ANSI C-63.4-2014;ANSI C-63.10-2013

*FCC KDB Publication No. 558074 D01 v05r02

*FCC TCB Workshop 2012, April

3.2 Technical Characteristics Test

3.2.1 6 dB Bandwidth

Procedure:

The bandwidth at 6 dB below the highest in-band spectral density was measured with a spectrum analyzer connected to the antenna terminal, while EUT is operating in transmission mode at the appropriate frequencies.

After the trace being stable, Use the marker-to-peak function to set the marker to the peak of the emission. Use the marker-delta function to measure 6 dB down one side of the emission. Reset the marker-delta function, and move the marker to the other side of the emission, until it is (as close as possible to) even with the reference marker level. The marker-delta reading at this point is the 6 dB bandwidth of the emission.

The spectrum analyzer is set to:

Center frequency = the highest, middle and the lowest channels

RBW = 100 kHz

Span = 3 * RBW

VBW = 3 * RBW

Sweep = auto

Trace = max hold

Detector function = peak

Measurement Data : **Complies**

(802.11 b)

Frequency (MHz)	Test Results	
	Measured Bandwidth (MHz)	Result
2412	10.42	Complies
2442	10.42	Complies
2462	10.42	Complies

(802.11 g)

Frequency (MHz)	Test Results	
	Measured Bandwidth (MHz)	Result
2412	16.469	Complies
2442	16.382	Complies
2462	16.411	Complies

(802.11 n)

Frequency (MHz)	Test Results	
	Measured Bandwidth (MHz)	Result
2412	17.019	Complies
2442	16.990	Complies
2462	17.019	Complies

- See next pages for actual measured spectrum plots.

Minimum Standard:

6 dB Bandwidth > 500 kHz

Measurement Setup

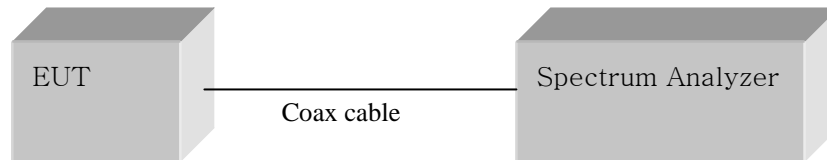
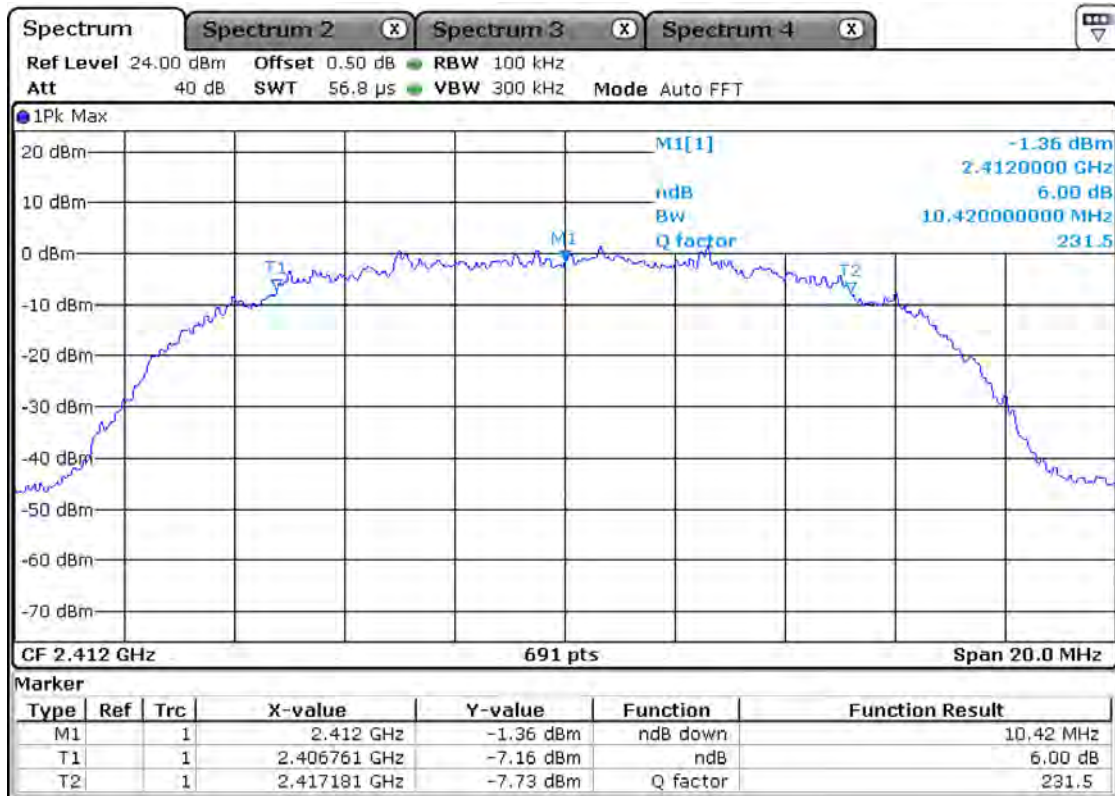
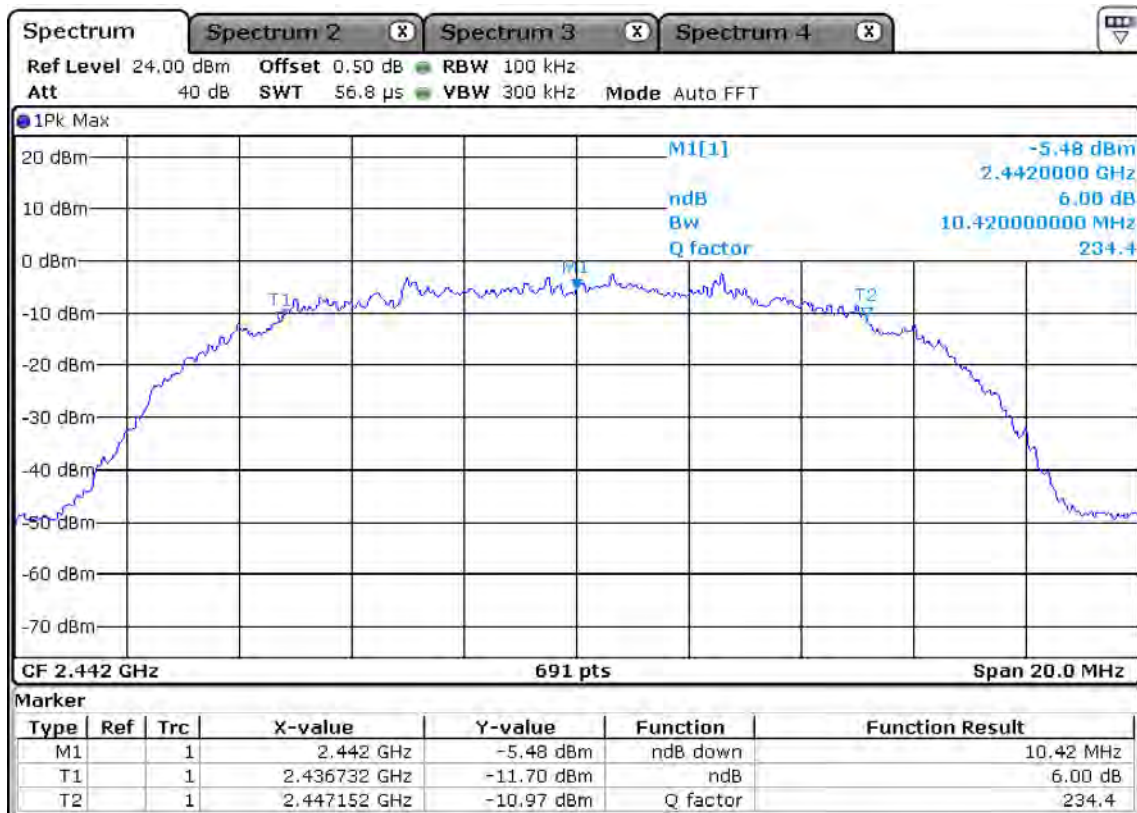


Figure 1: Measurement setup for the carrier frequency separation

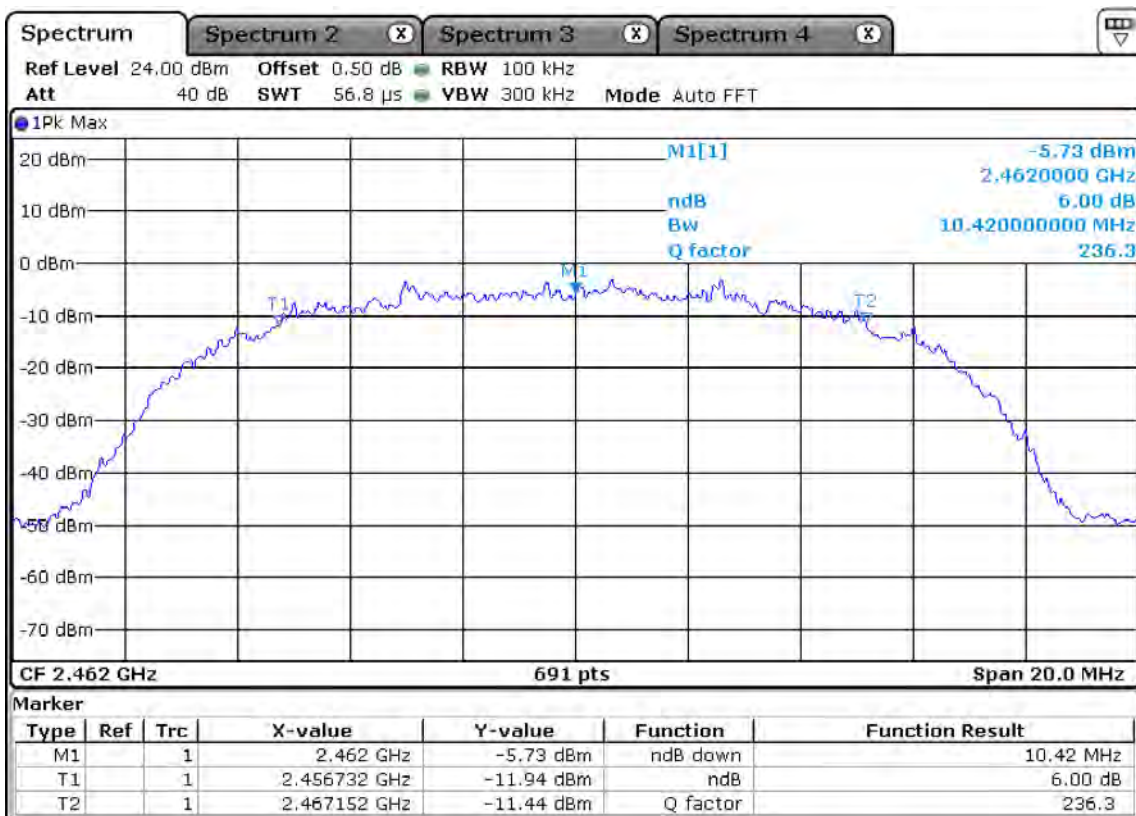
Low Channel – 802.11 b



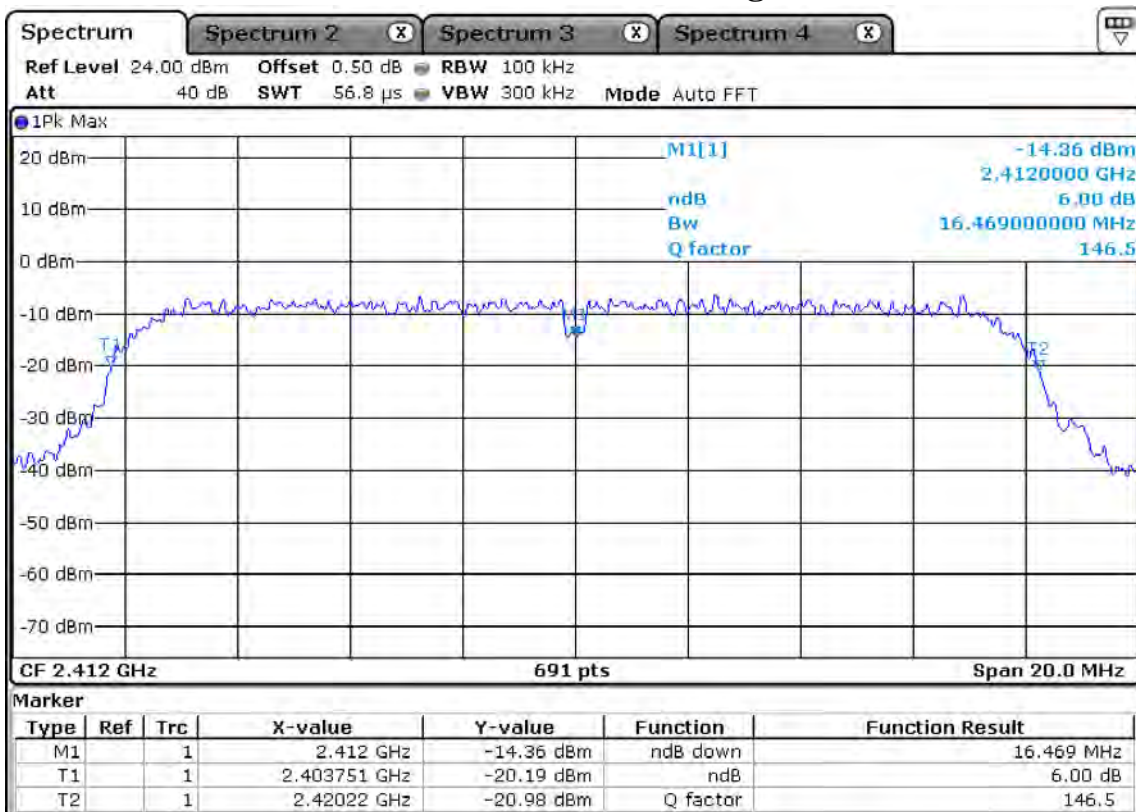
Middle Channel – 802.11 b



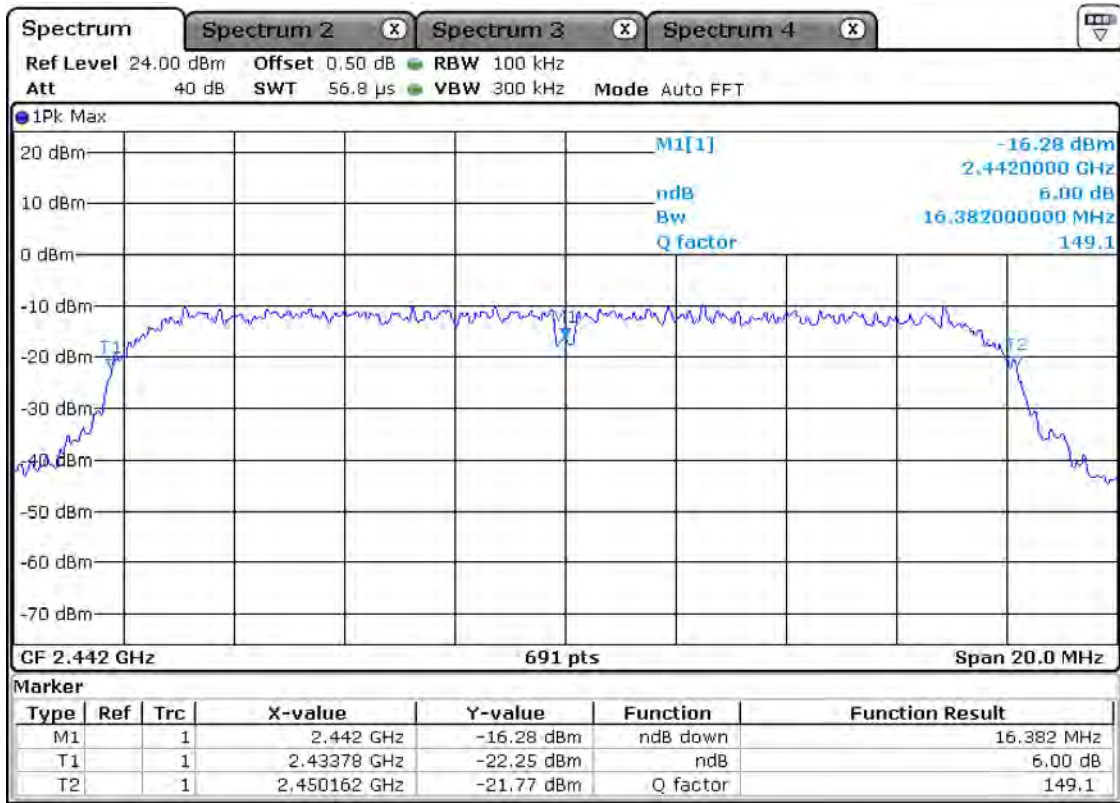
High Channel – 802.11 b



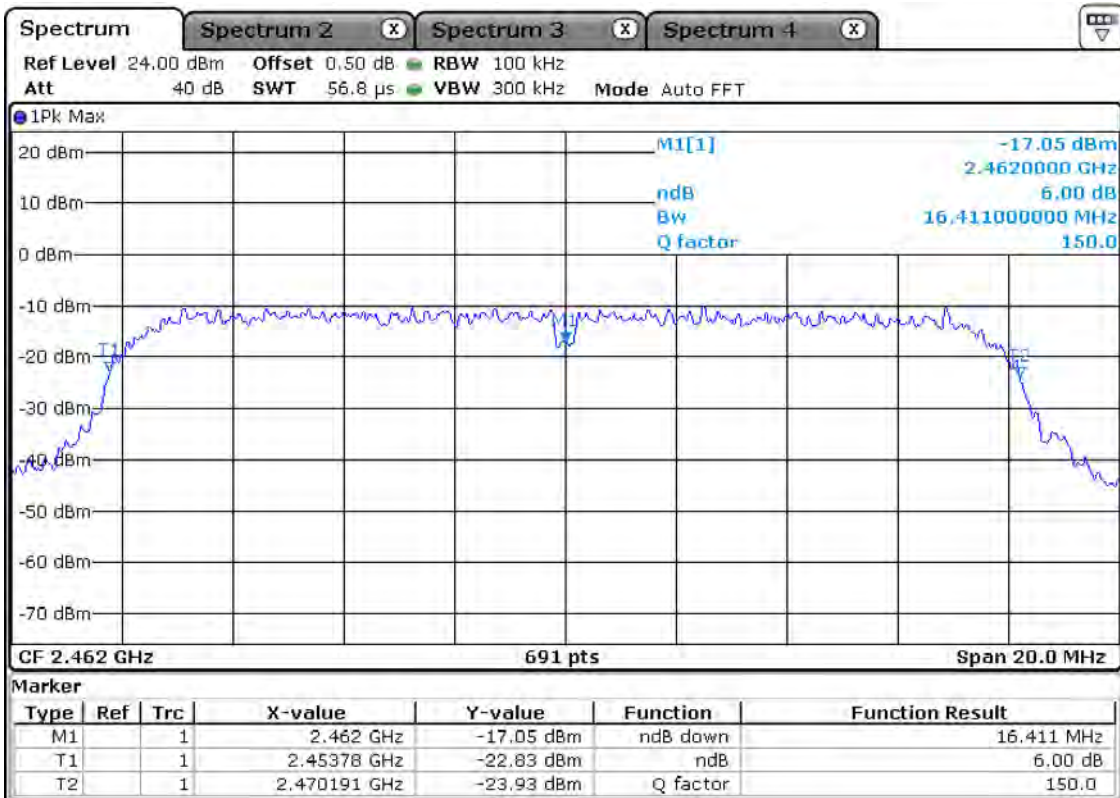
Low Channel – 802.11 g



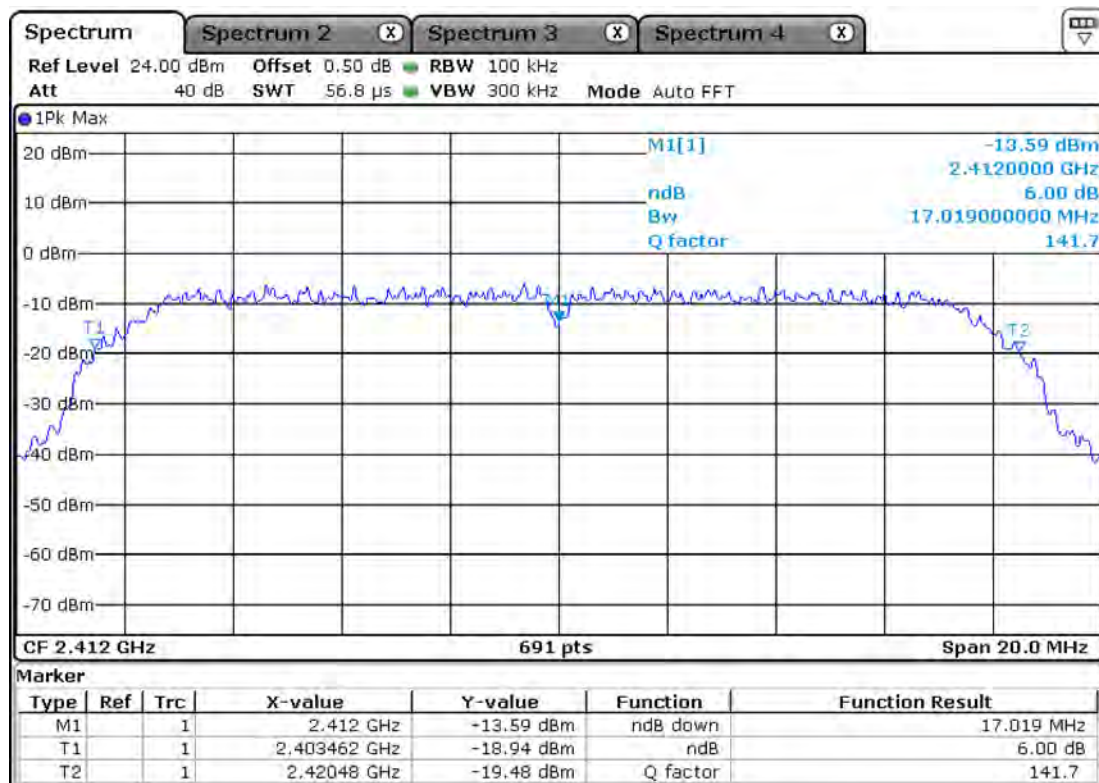
Middle Channel – 802.11 g



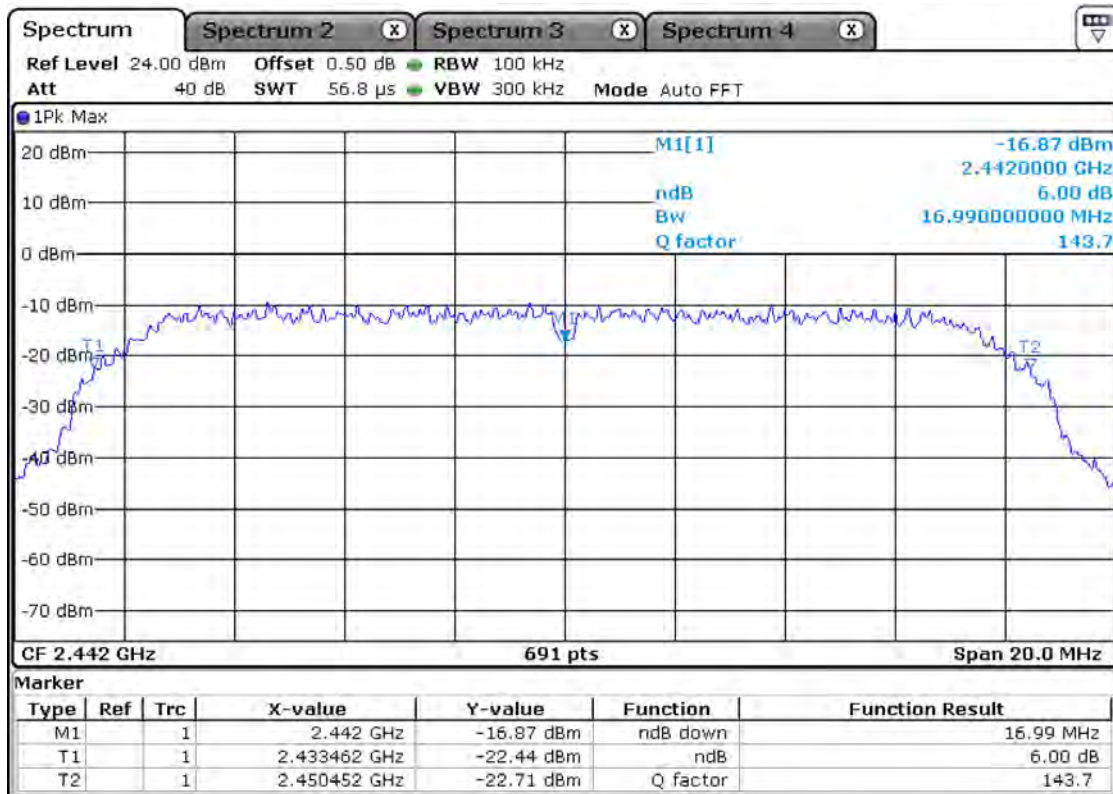
High Channel – 802.11 g



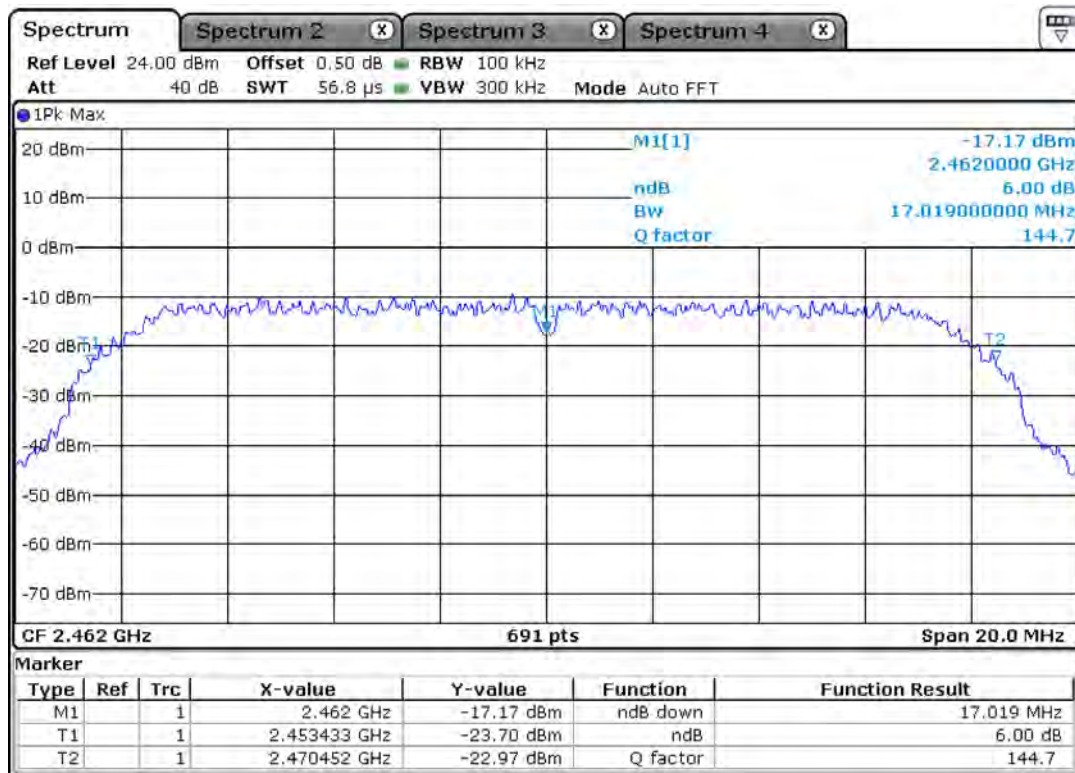
Low Channel – 802.11 n



Middle Channel – 802.11 n



High Channel – 802.11 n



3.2.2 Peak Output Power Measurement

Procedure:

The maximum peak output power was measured with the spectrum analyzer connected to the antenna output of the EUT. The spectrum analyzer's internal channel power integration function is used to integrate the power over a bandwidth greater than or equal to the 99% bandwidth. The EUT was operating in transmit mode at the appropriate center frequency.

The spectrum analyzer is set to:

Center frequency = the highest, middle and the lowest channels

RBW \geq DTS Bandwidth

Span \geq 3 * RBW

VBW = 3 * RBW

Sweep = auto

Detector function = peak

Measurement Data : **Complies**

(802.11 b)

Frequency (MHz)	Test Results		
	dBm	W	Result
2412	7.40	0.005	Complies
2442	3.53	0.002	Complies
2462	3.28	0.002	Complies

(802.11 g)

Frequency (MHz)	Test Results		
	dBm	W	Result
2412	4.08	0.003	Complies
2442	0.86	0.001	Complies
2462	0.60	0.001	Complies

(802.11 n)

Frequency (MHz)	Test Results		
	dBm	W	Result
2412	4.57	0.003	Complies
2442	1.07	0.001	Complies
2462	0.80	0.001	Complies

- See next pages for actual measured spectrum plots.

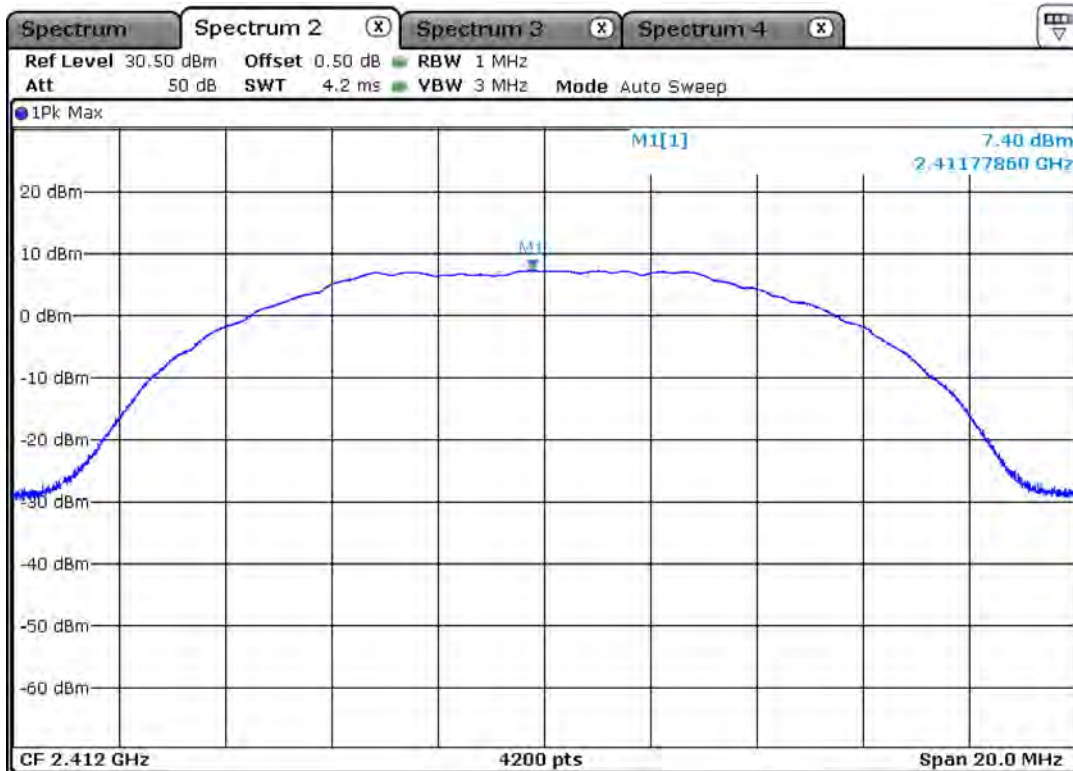
Minimum Standard:

Peak output power	$\leq 1 \text{ W}(30 \text{ dBm})$
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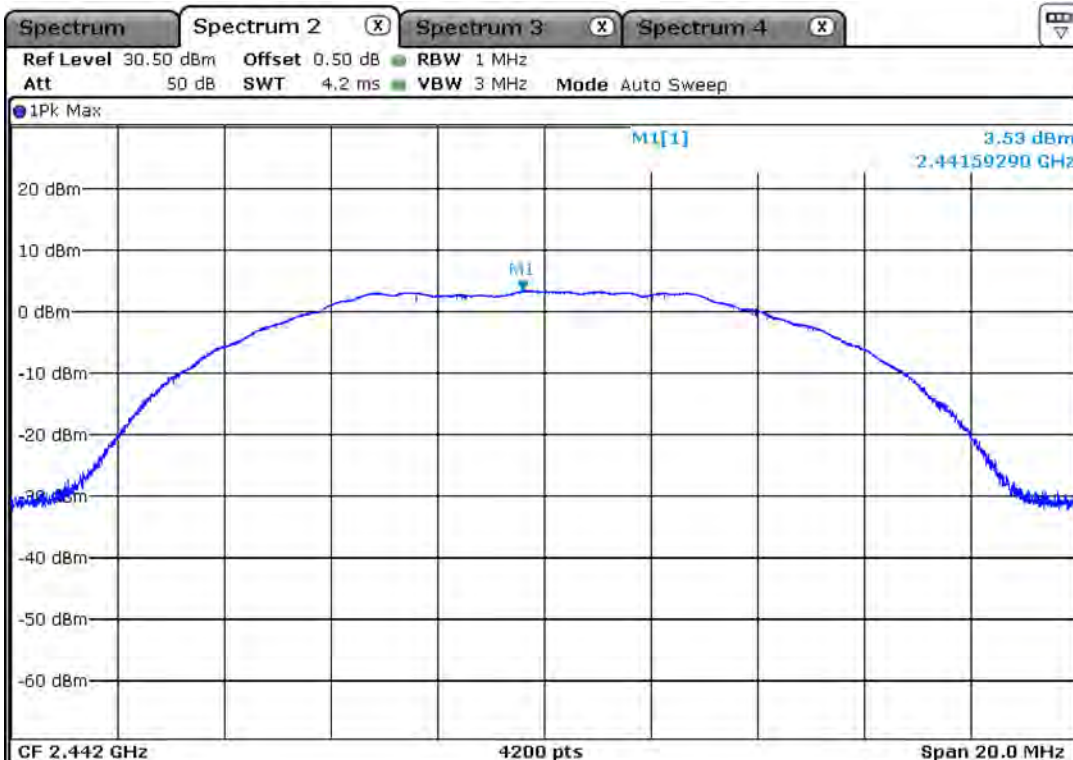
Measurement Setup

Same as the Chapter 3.2.1 (Figure 1)

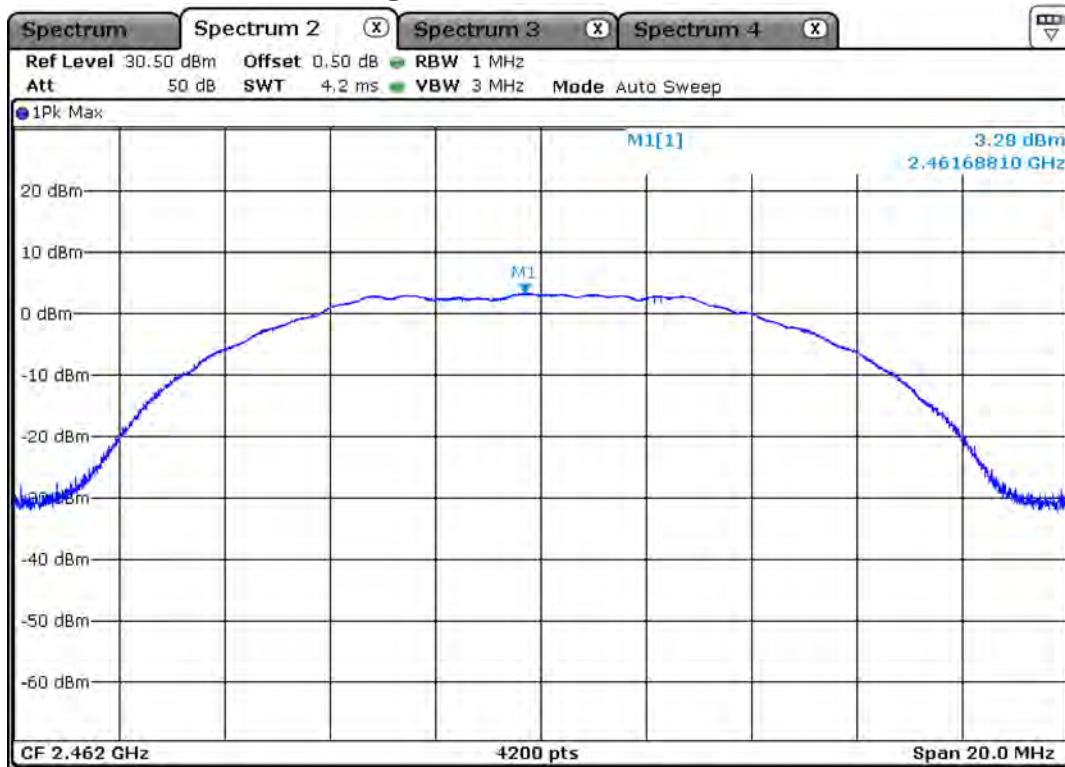
Low Channel – 802.11 b



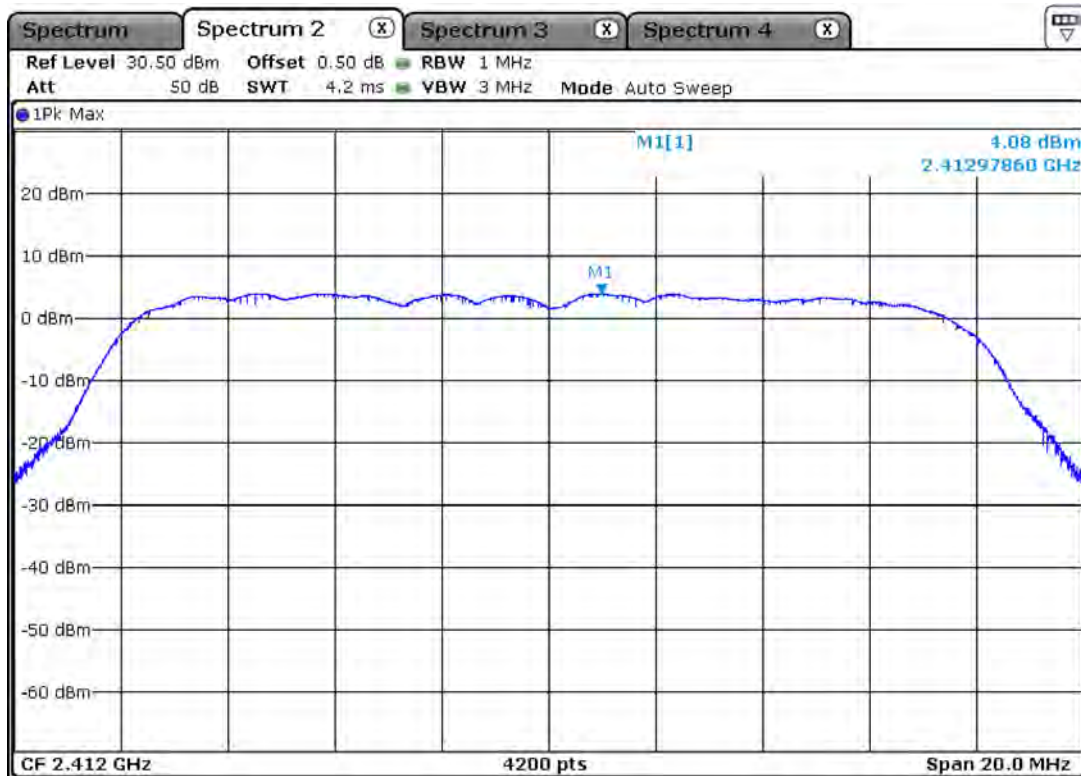
Middle Channel – 802.11 b



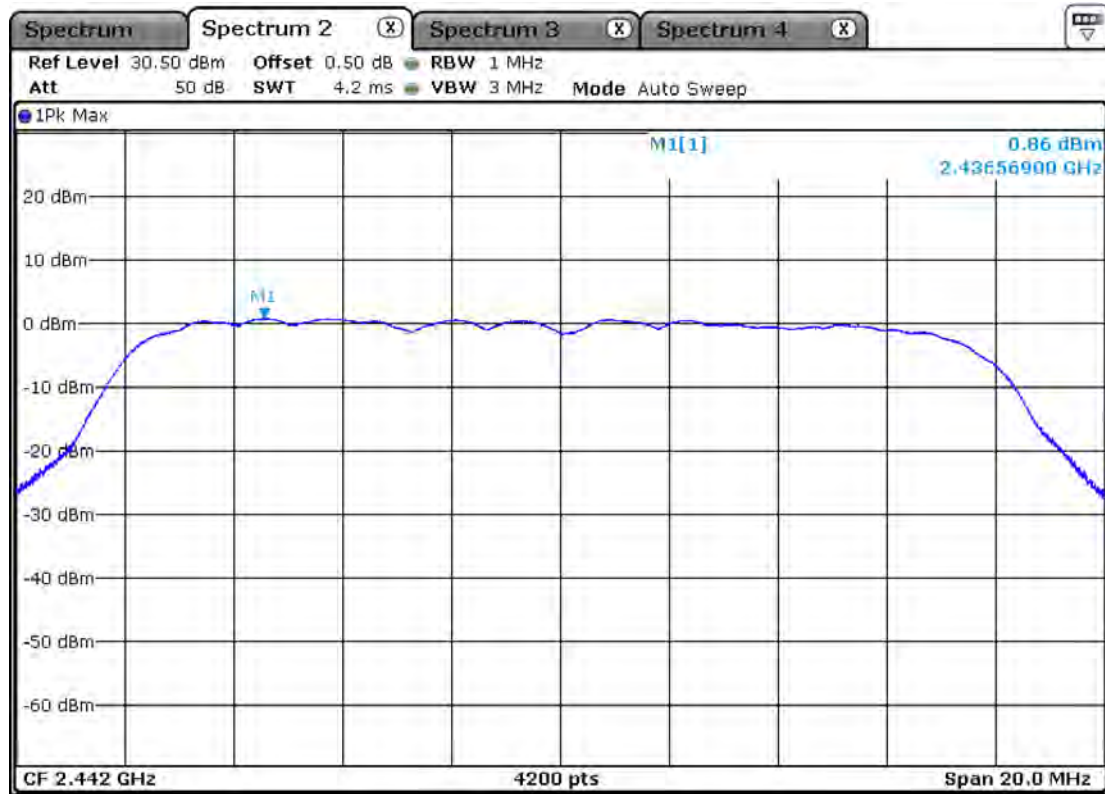
High Channel – 802.11 b



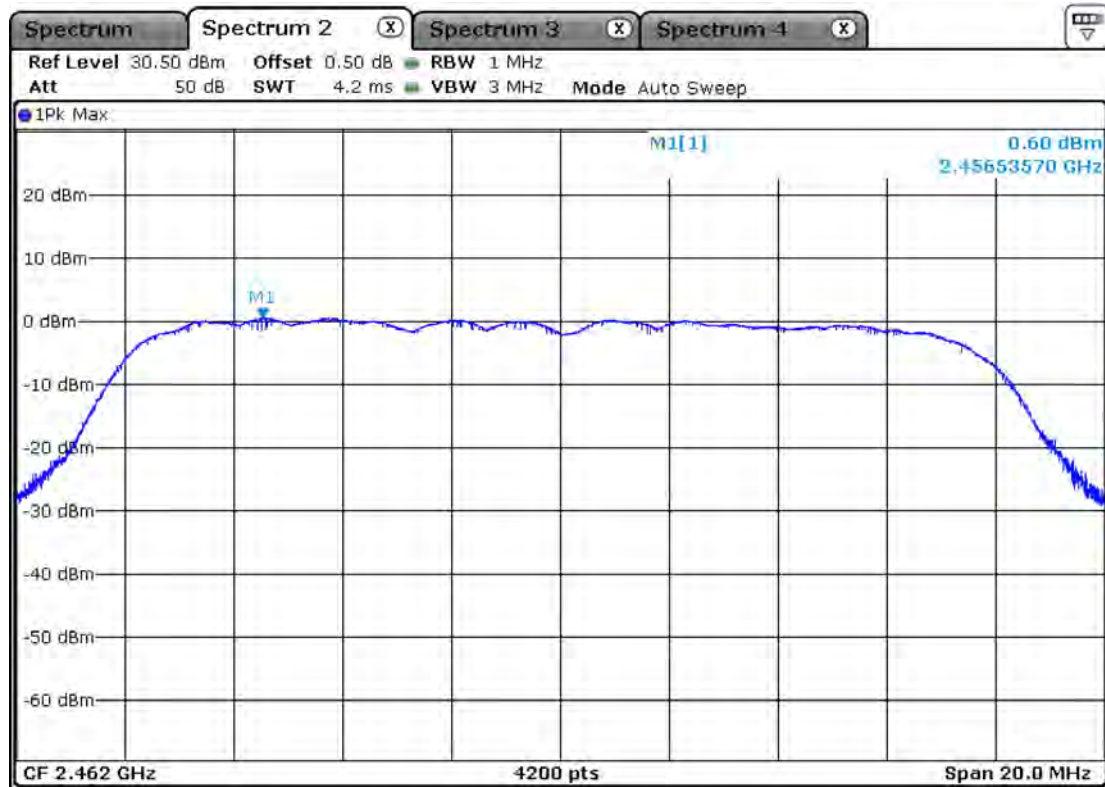
Low Channel – 802.11 g



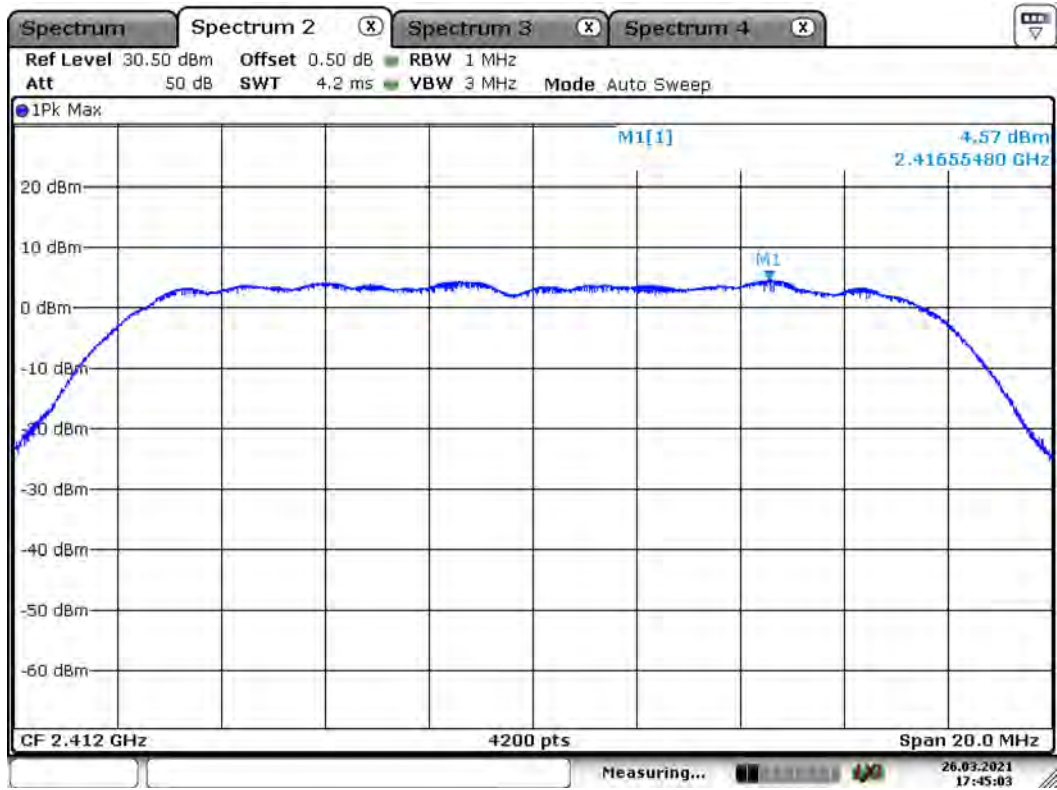
Middle Channel – 802.11 g



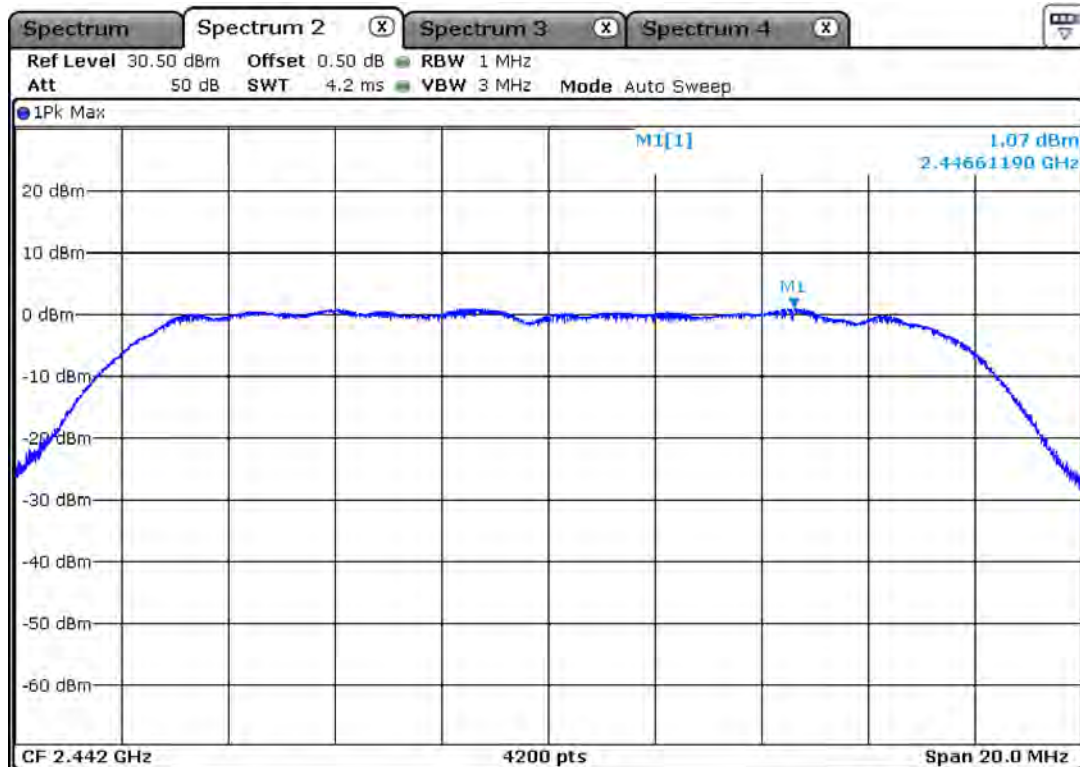
High Channel – 802.11 g



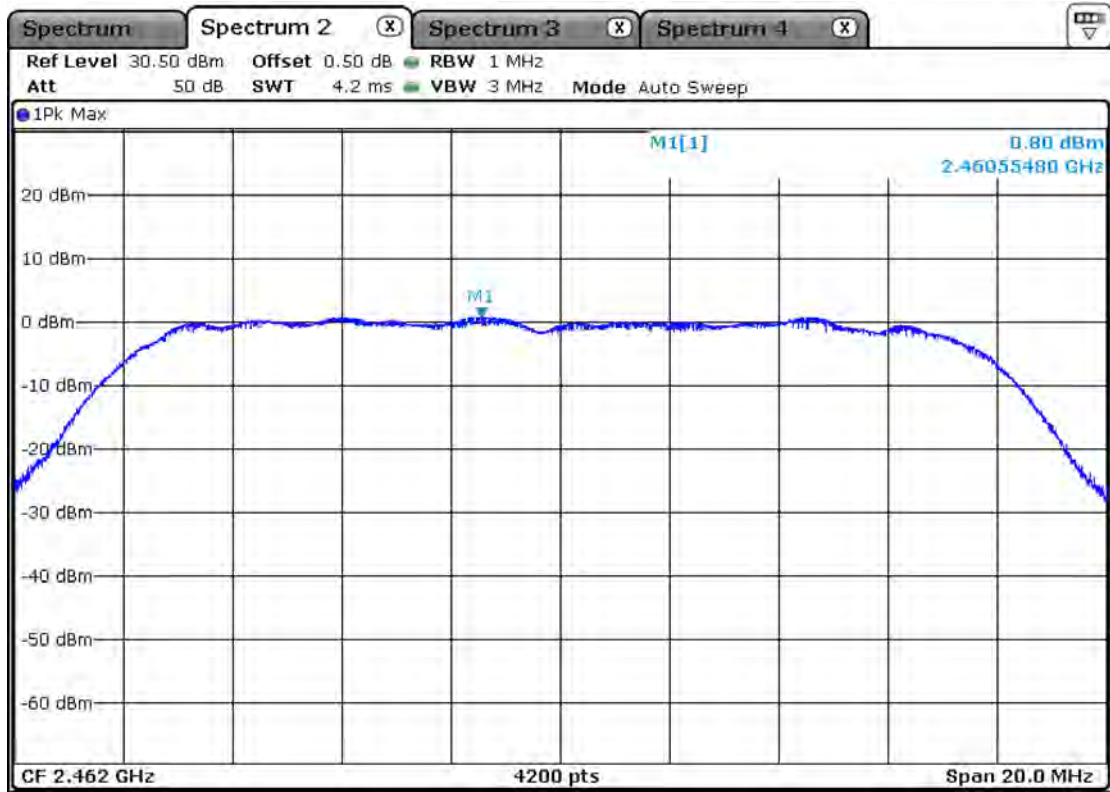
Low Channel – 802.11 n



Middle Channel – 802.11 n



High Channel – 802.11 n



3.2.3 Power Spectral Density

Procedure:

The peak power density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating in transmission mode at the appropriate frequencies.

The spectrum analyzer is set to:

RBW = 3 kHz ($3\text{kHz} \leq \text{RBW} \leq 100\text{kHz}$) Span \geq 1.5 times the DTS bandwidth

VBW = 3 * RBW Sweep = auto

Detector function = peak Trace = max hold

Measurement Data : **Complies**

(802.11 b)

Frequency (MHz)	Test Results	
	dBm	Result
2412	-15.89	Complies
2442	-19.43	Complies
2462	-19.59	Complies

(802.11 g)

Frequency (MHz)	Test Results	
	dBm	Result
2412	-21.31	Complies
2442	-24.73	Complies
2462	-24.93	Complies

(802.11 n)

Frequency (MHz)	Test Results	
	dBm	Result
2412	-20.79	Complies
2442	-24.24	Complies
2462	-24.36	Complies

- See next pages for actual measured spectrum plots.

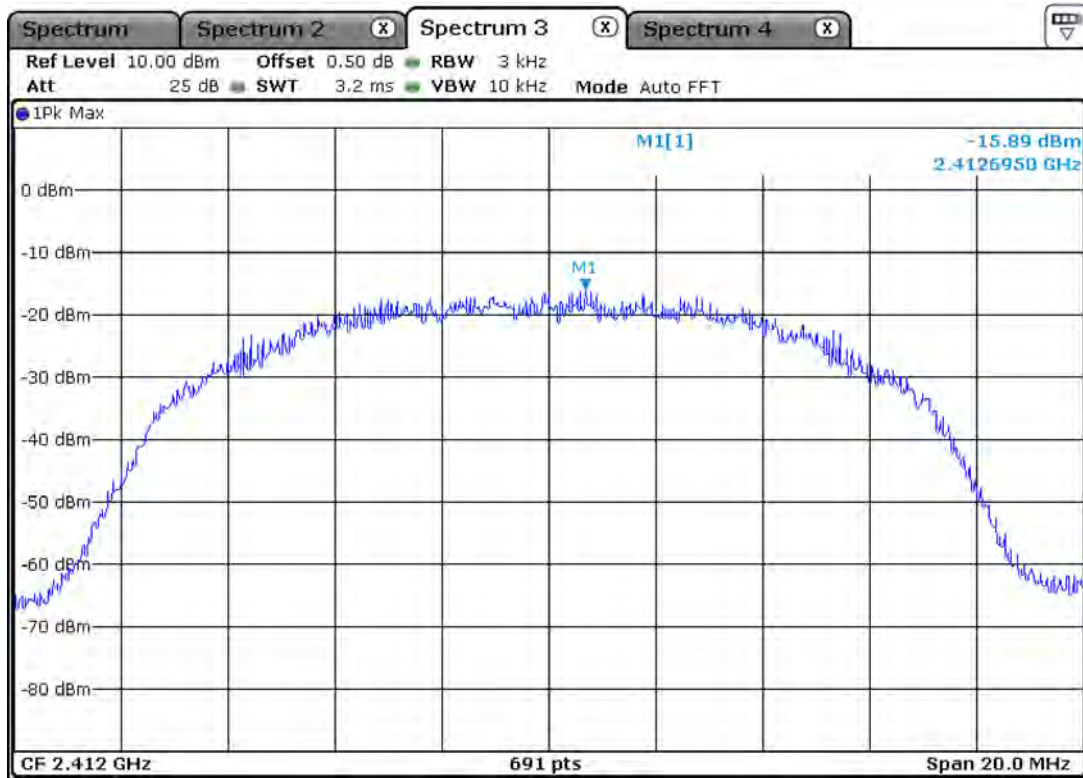
Minimum Standard:

Power Spectral Density	< 8 dBm @ 3 kHz BW
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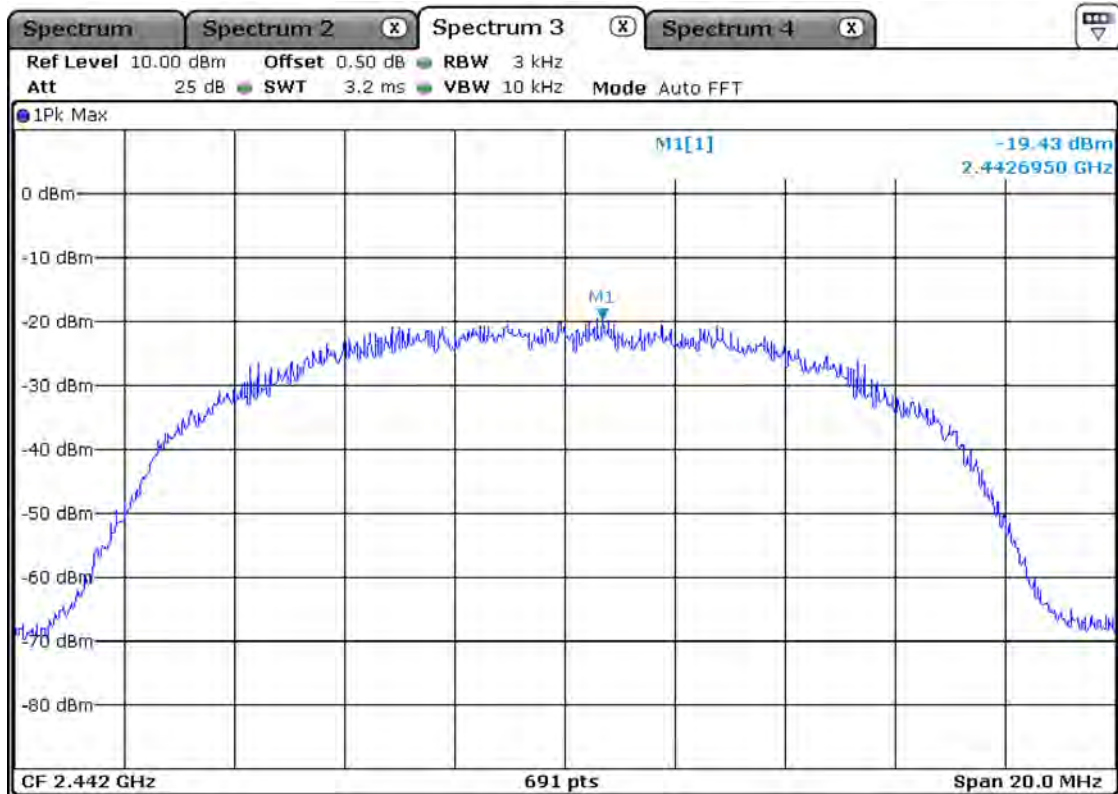
Measurement Setup

Same as the Chapter 3.2.1 (Figure 1)

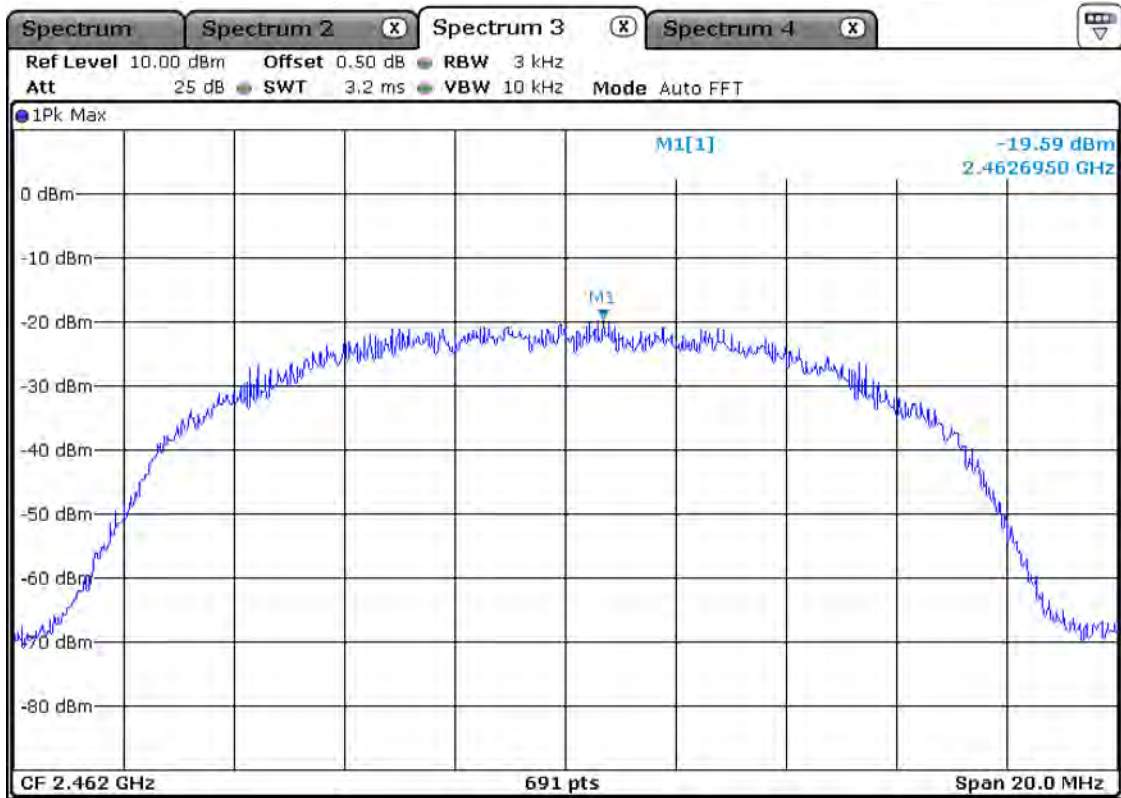
Low Channel – 802.11 b



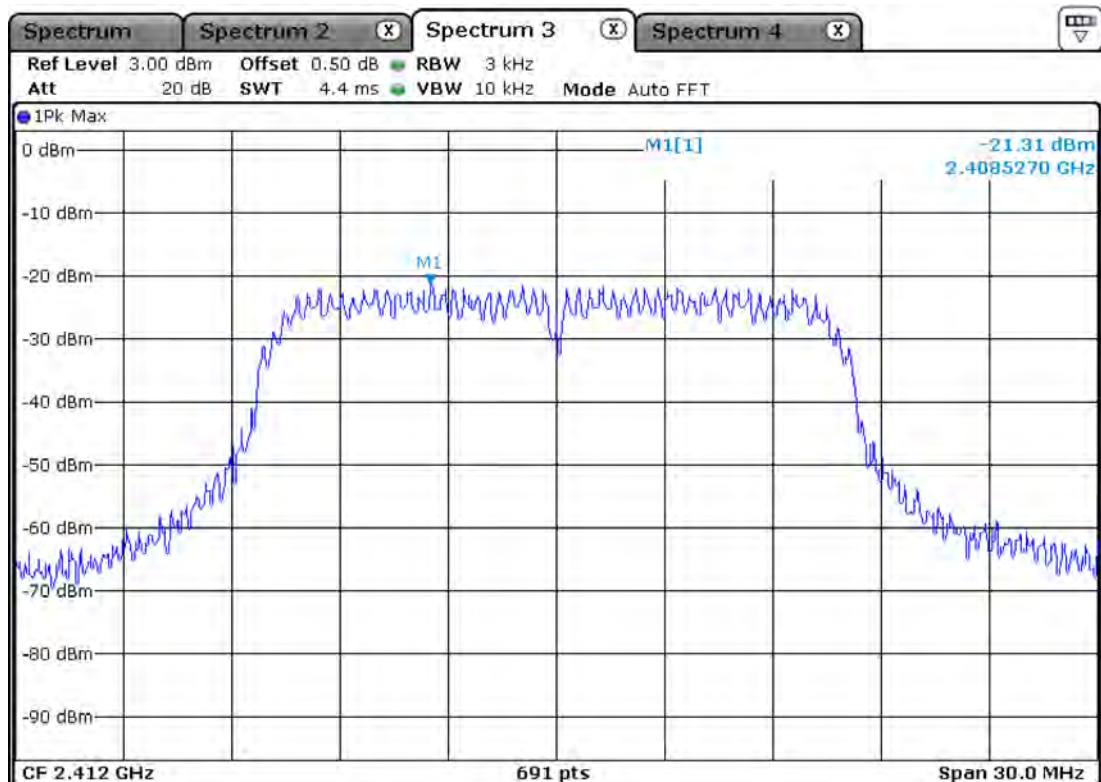
Middle Channel – 802.11 b



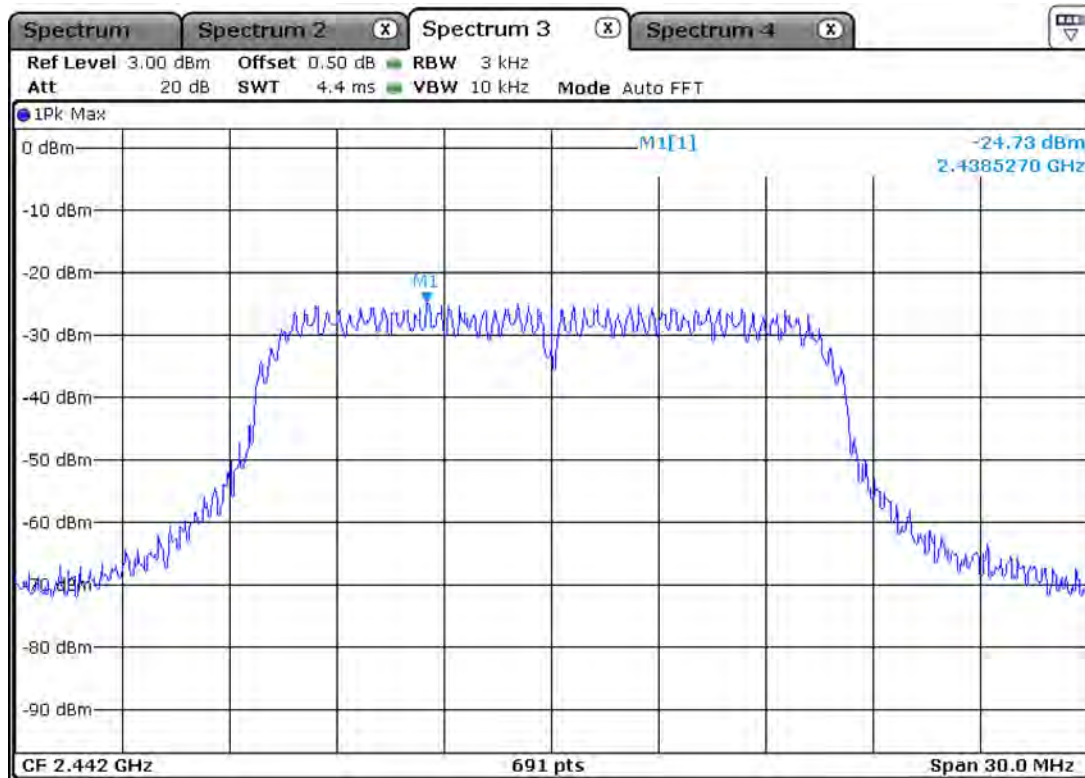
High Channel – 802.11 b



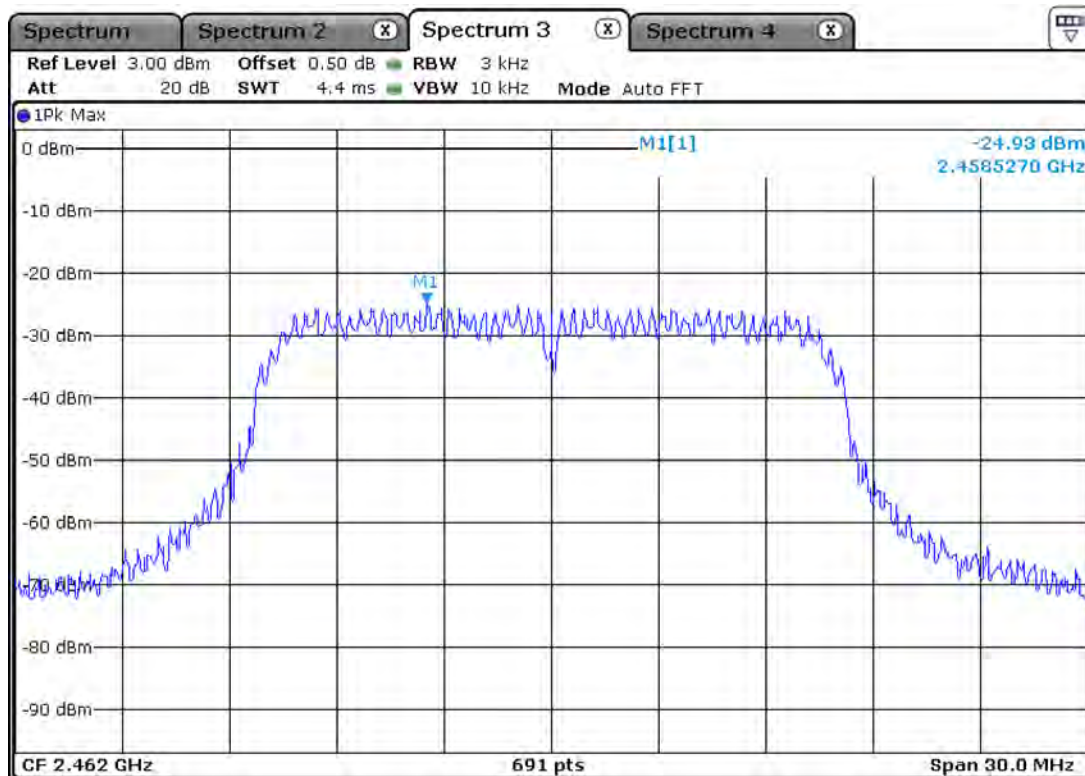
Low Channel – 802.11 g



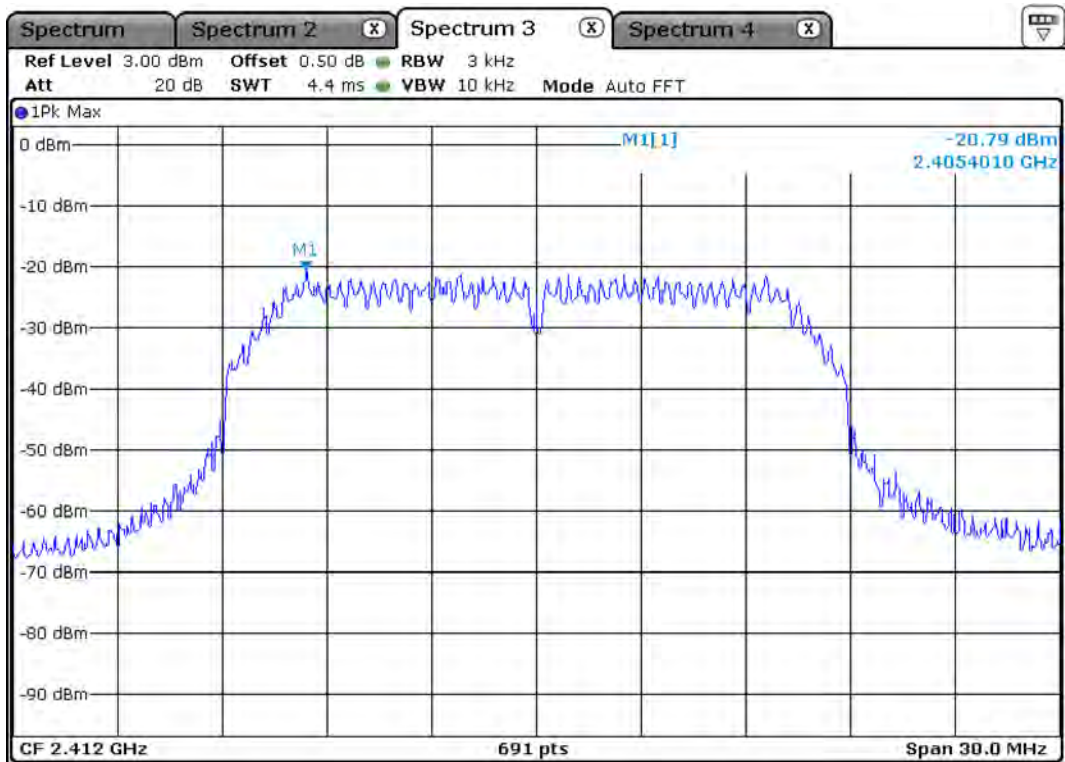
Middle Channel – 802.11 g



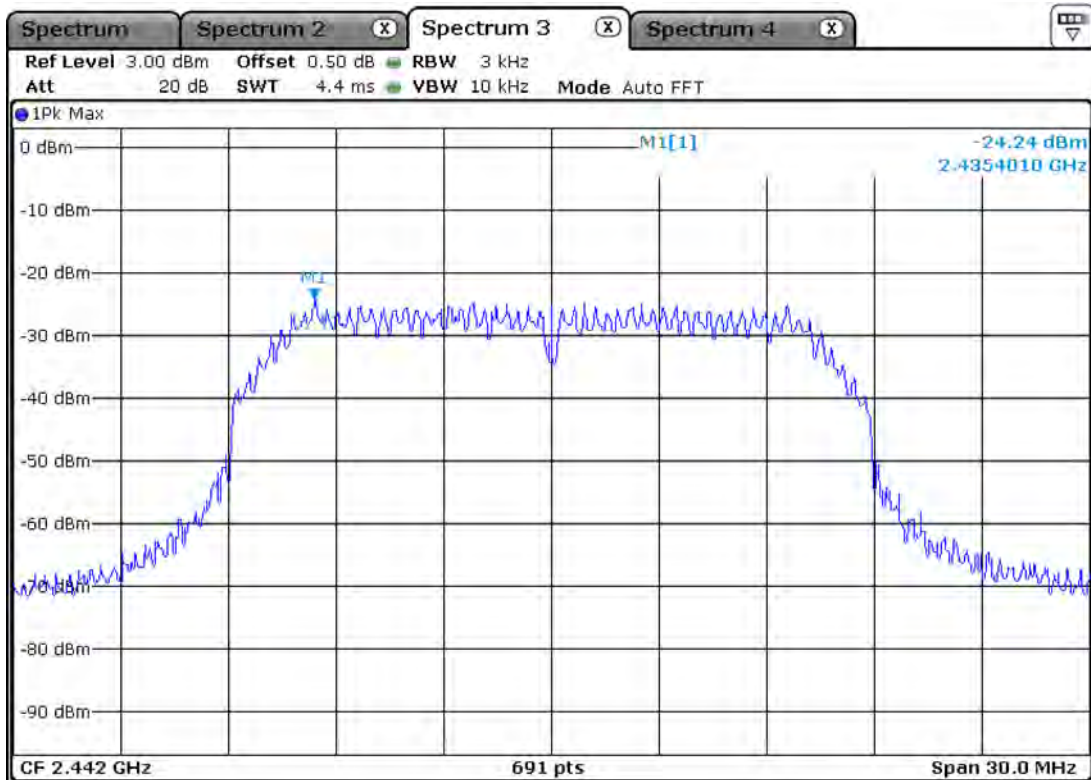
High Channel – 802.11 g



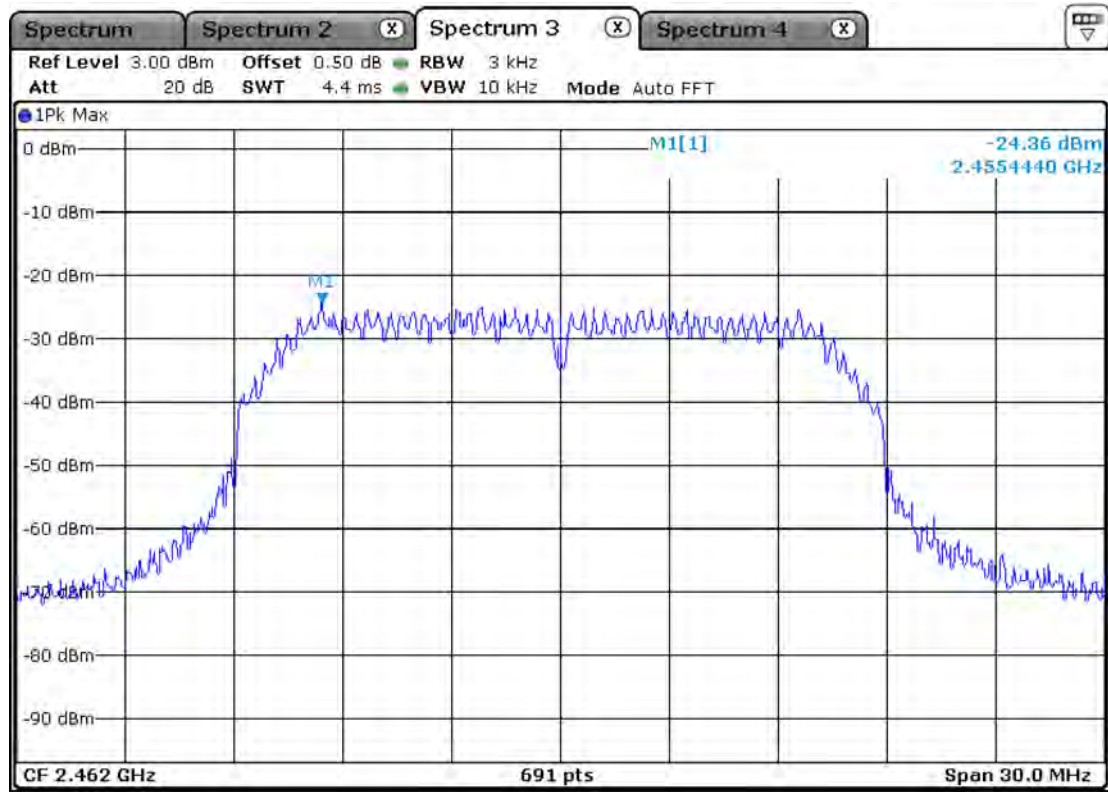
Low Channel – 802.11 n



Middle Channel – 802.11 n



High Channel – 802.11 n



3.2.4 Band - edge

Procedure:

The Unwanted emission from the EUT were measured according to the dictates PKPSD measurement procedure in section 11.11 of ANSI C63.10-2013.

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced 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 that the transmitter demonstrates compliance with the peak conducted power limits.

If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under Section 5.4(4), the attenuation required shall be 30 dB instead of 20 dB..

The spectrum analyzer is set to:

Center frequency = the highest, middle and the lowest channels

RBW = 100 kHz

VBW \geq 3 X RBW

Detector function = peak

Trace = max hold

Sweep = auto

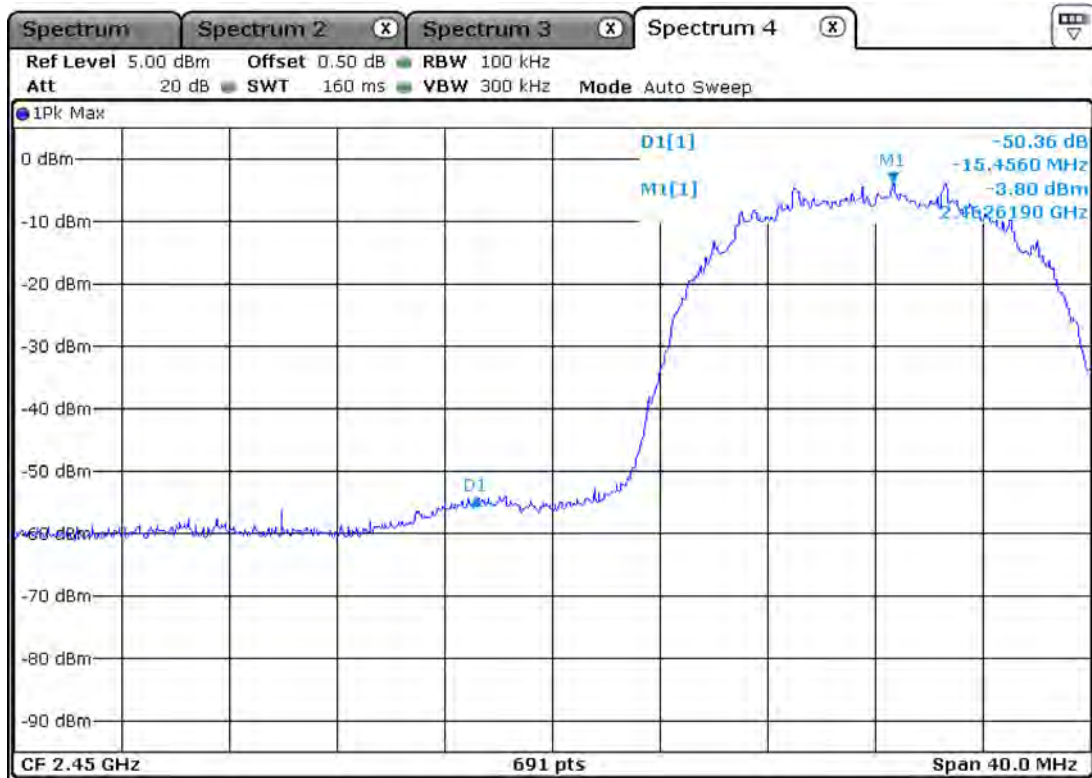
Measurement Data: Complies

- All conducted emission in any 100 kHz bandwidth outside of the spread spectrum band was at least 20 dB lower than the highest inband spectral density. Therefore the applying equipment meets the requirement.
- See next pages for actual measured spectrum plots.

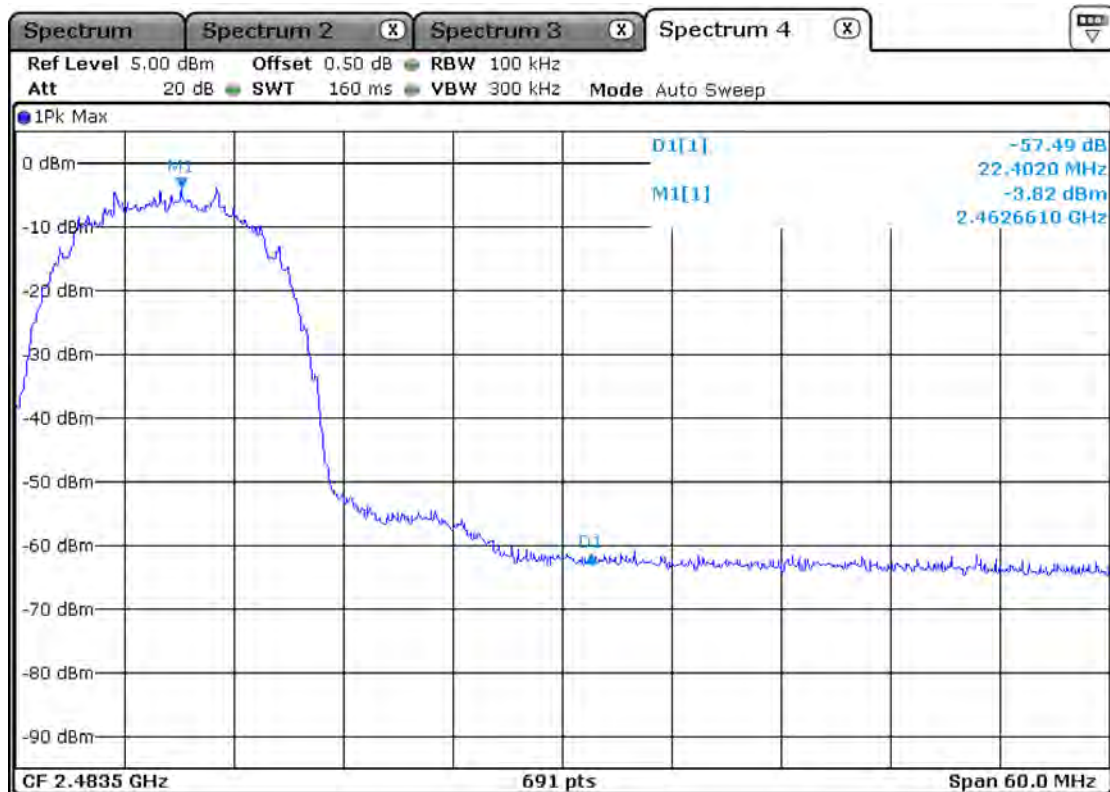
Minimum Standard:	\leq 20 dBc
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Band edge – 802.11b

Lower edge

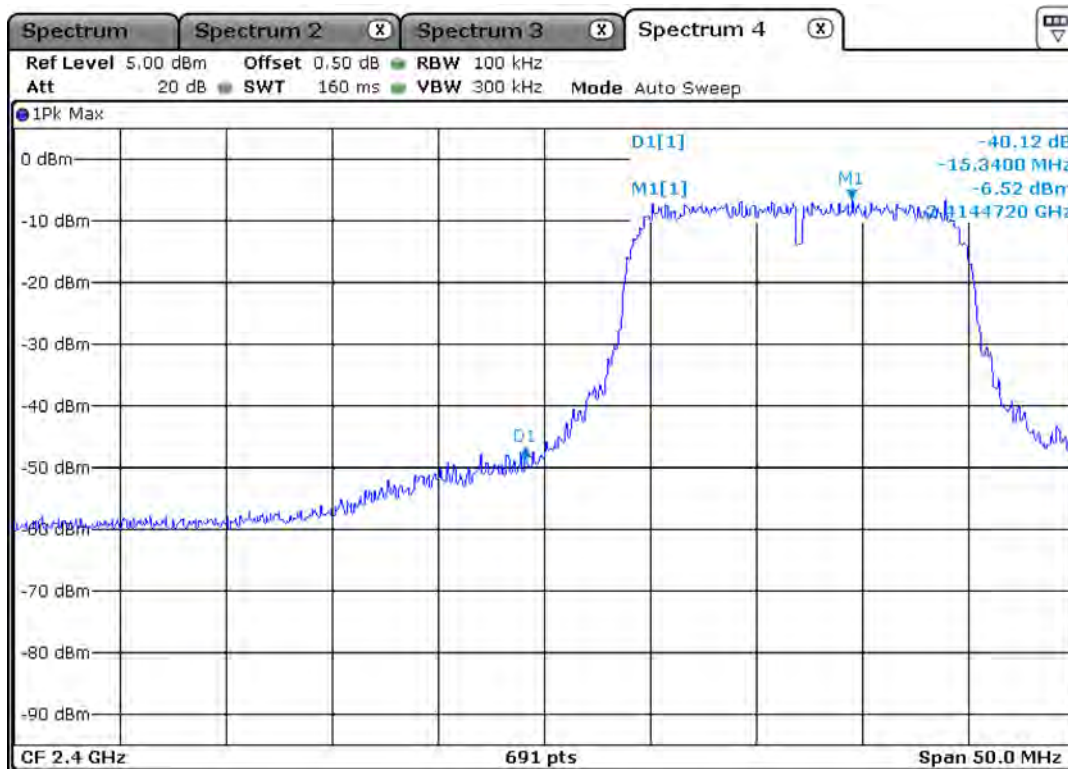


Upper edge

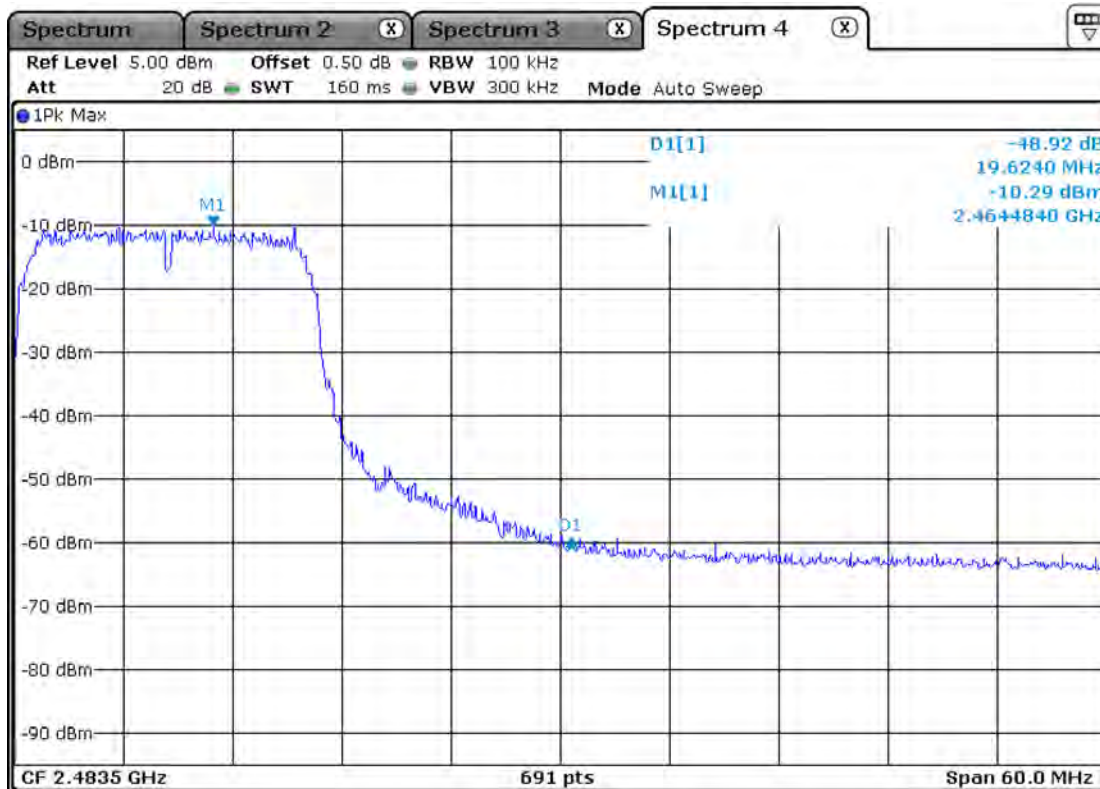


Band edge – 802.11g

Lower edge



Upper edge



3.2.5 Conducted Spurious Emissions

Procedure:

The test follows KDB558074. The conducted spurious emissions were measured with a spectrum analyzer connected to the antenna terminal, while EUT had its hopping function disabled at the highest, middle and the lowest available channels..

After the trace being stable, set the marker on the peak of any spurious emission recorded.

The spectrum analyzer is set to:

Span = wide enough to capture the peak level of the in-band emission and all spurious emissions

RBW = 100 kHz

Sweep = auto

VBW = 100 kHz

Detector function = peak

Trace = max hold

Measurement Data: **Complies**

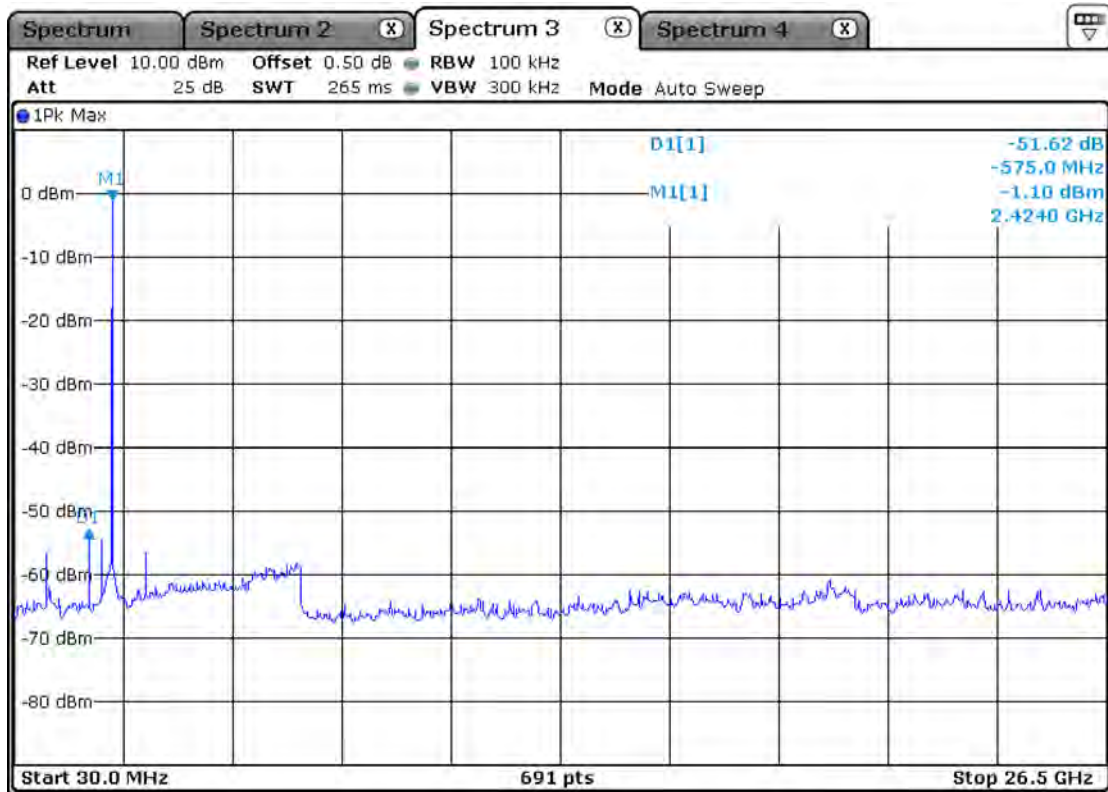
- All conducted emission in any 100 kHz bandwidth outside of the spread spectrum band was at least 20 dB lower than the highest inband spectral density. Therefore the applying equipment meets the requirement.
- See next pages for actual measured spectrum plots.

Minimum Standard:	≥ 20 dBc
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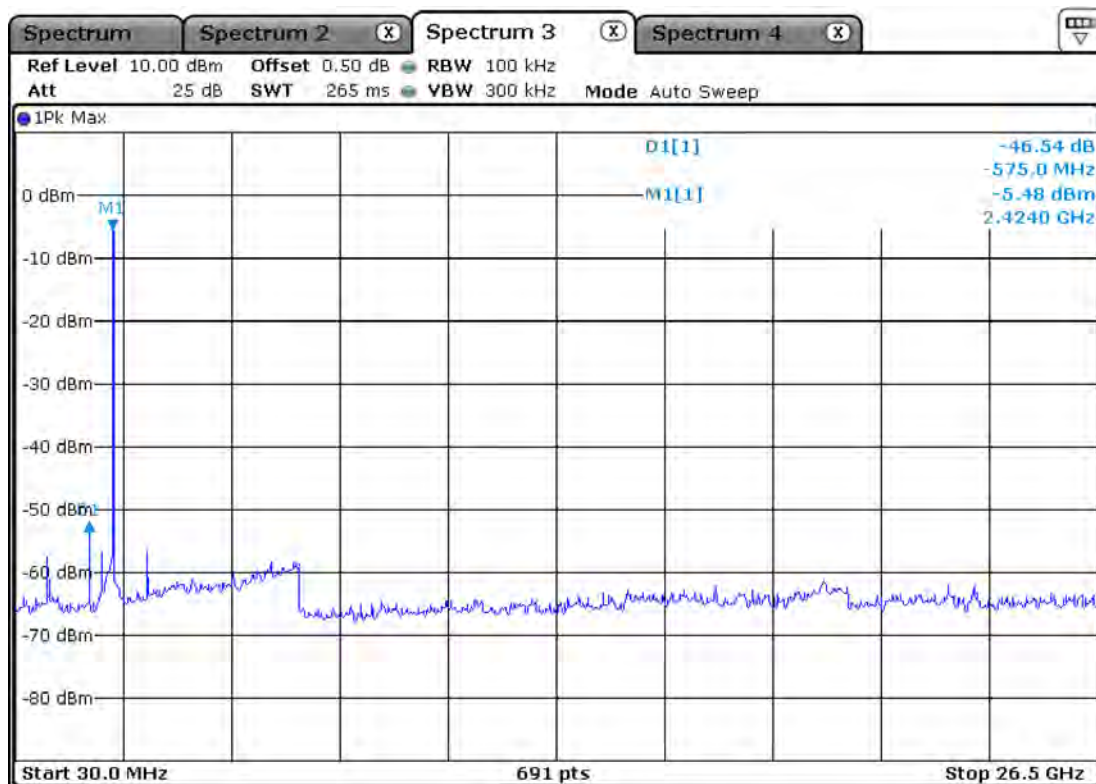
Measurement Setup

Same as the Chapter 3.2.1 (Figure 1)

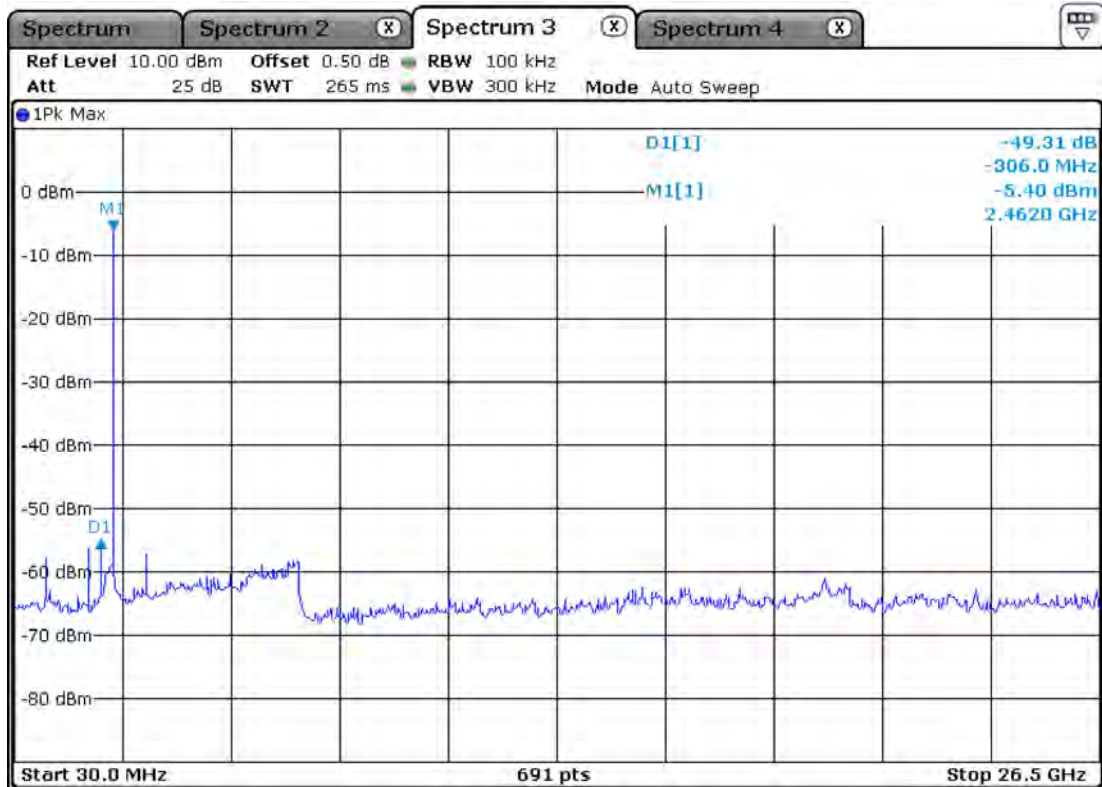
Frequency Range = 30 MHz ~ 26.5 GHz
Unwanted Emission – Low Channel – 802.11 b



Middle Channel – 802.11 b

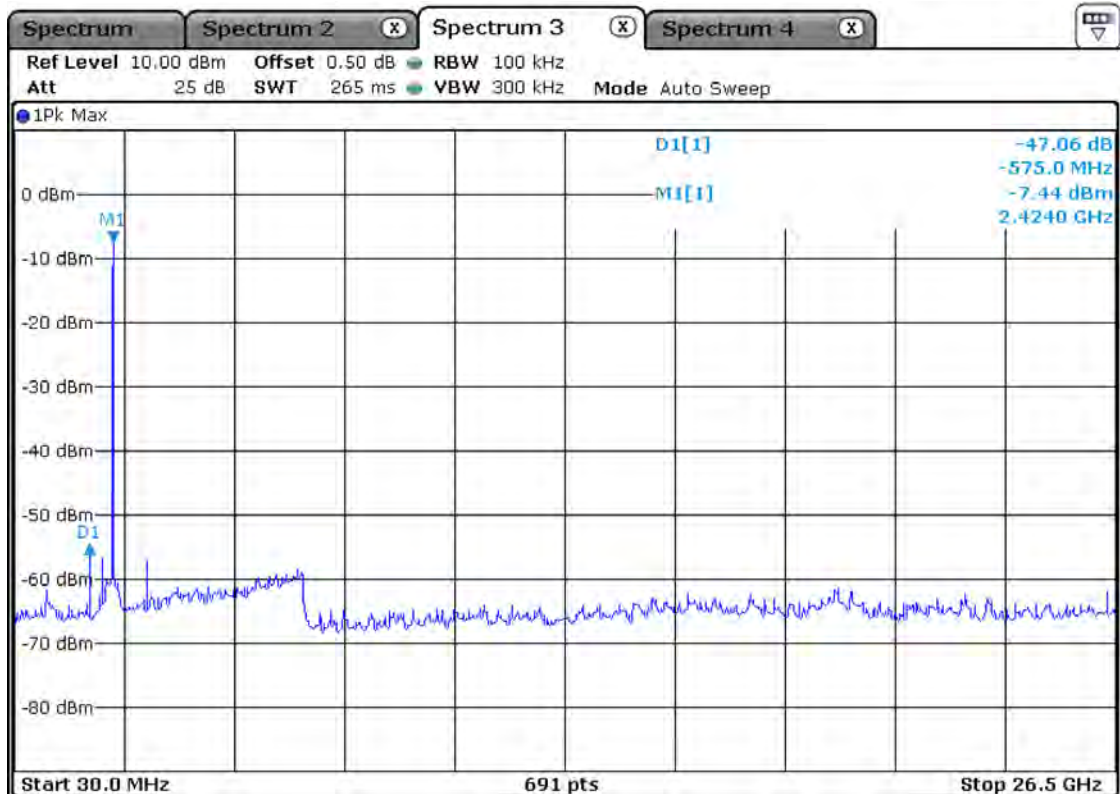


High Channel – 802.11 b

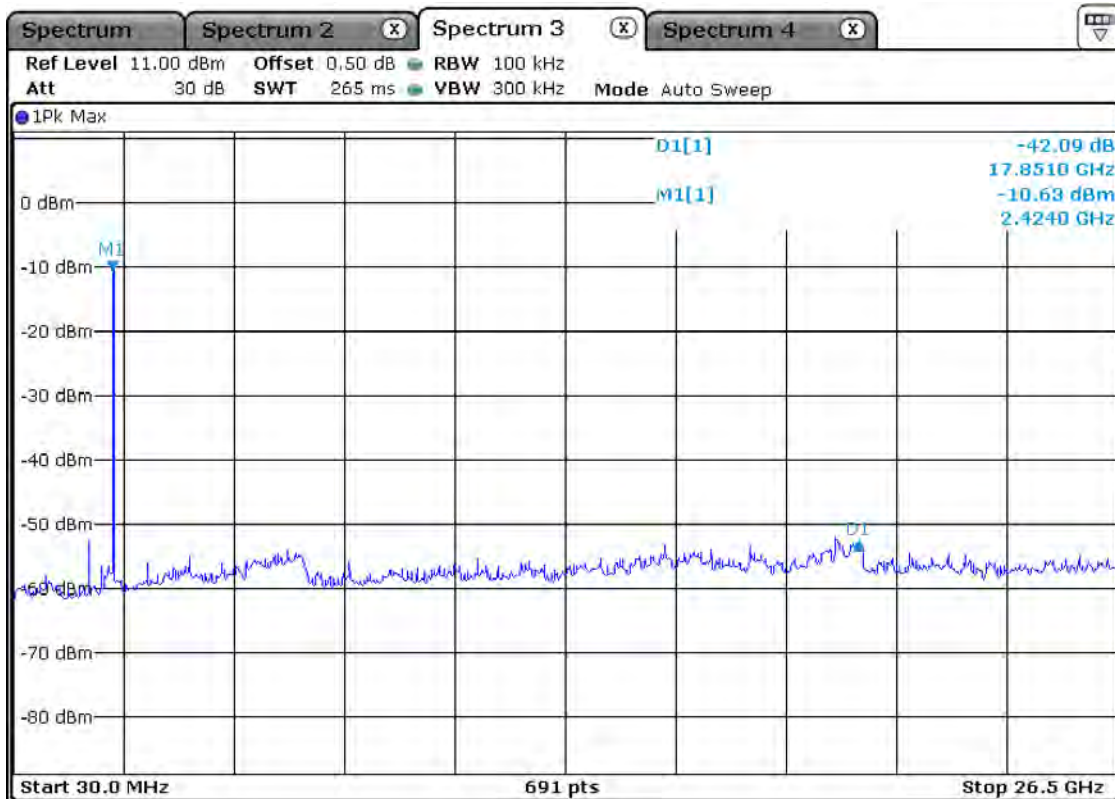


Frequency Range = 30 MHz ~ 26.5 GHz

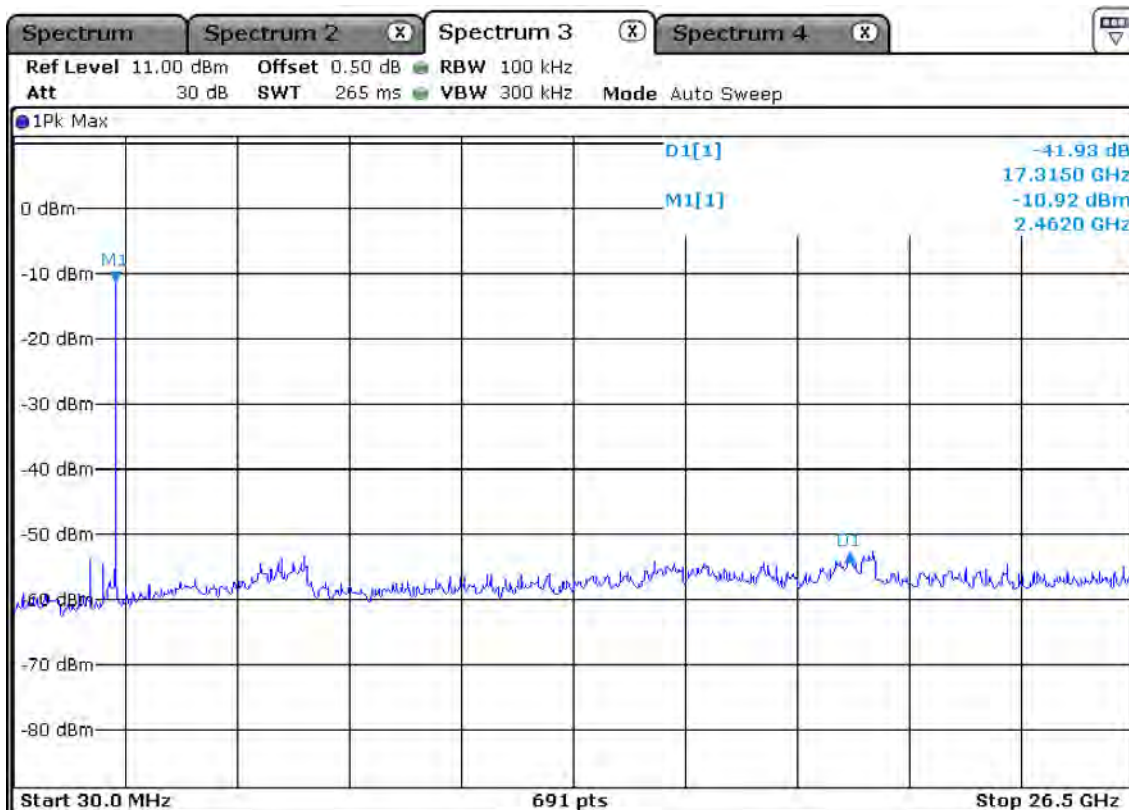
Unwanted Emission – Low Channel – 802.11 g



Middle Channel – 802.11 g

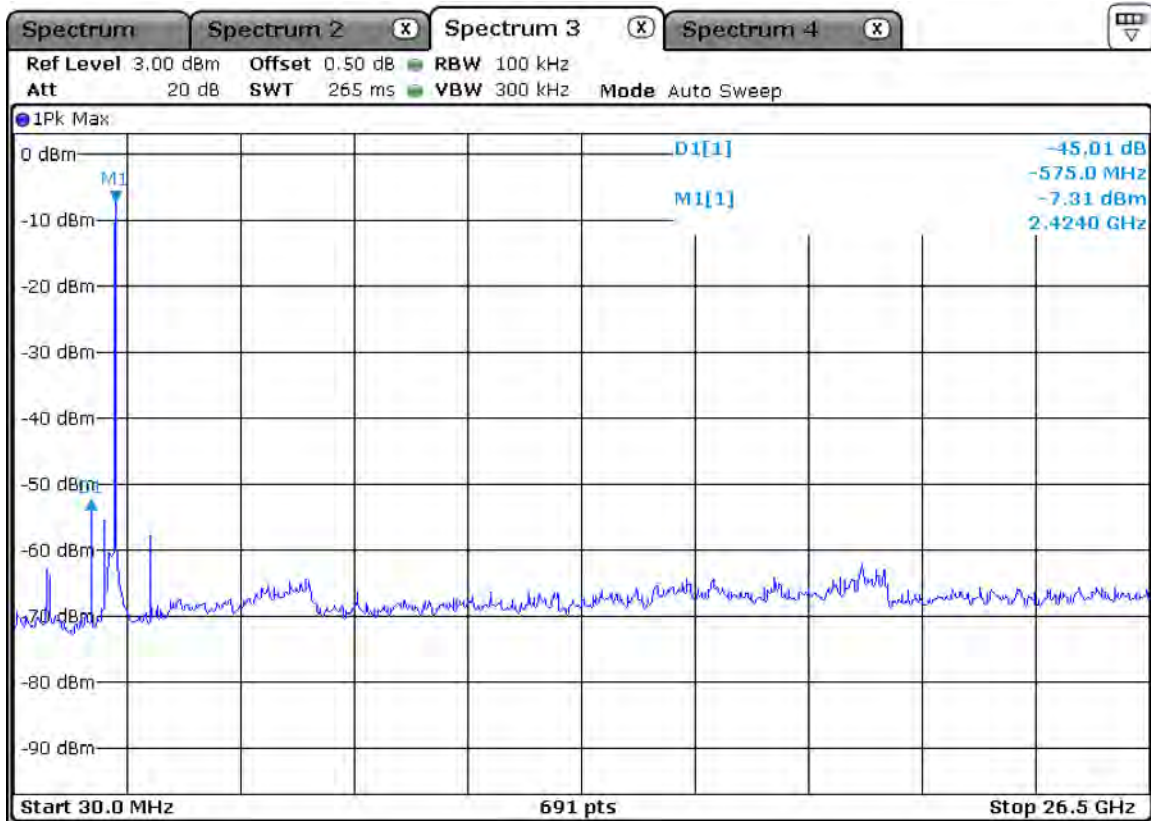


High Channel – 802.11 g

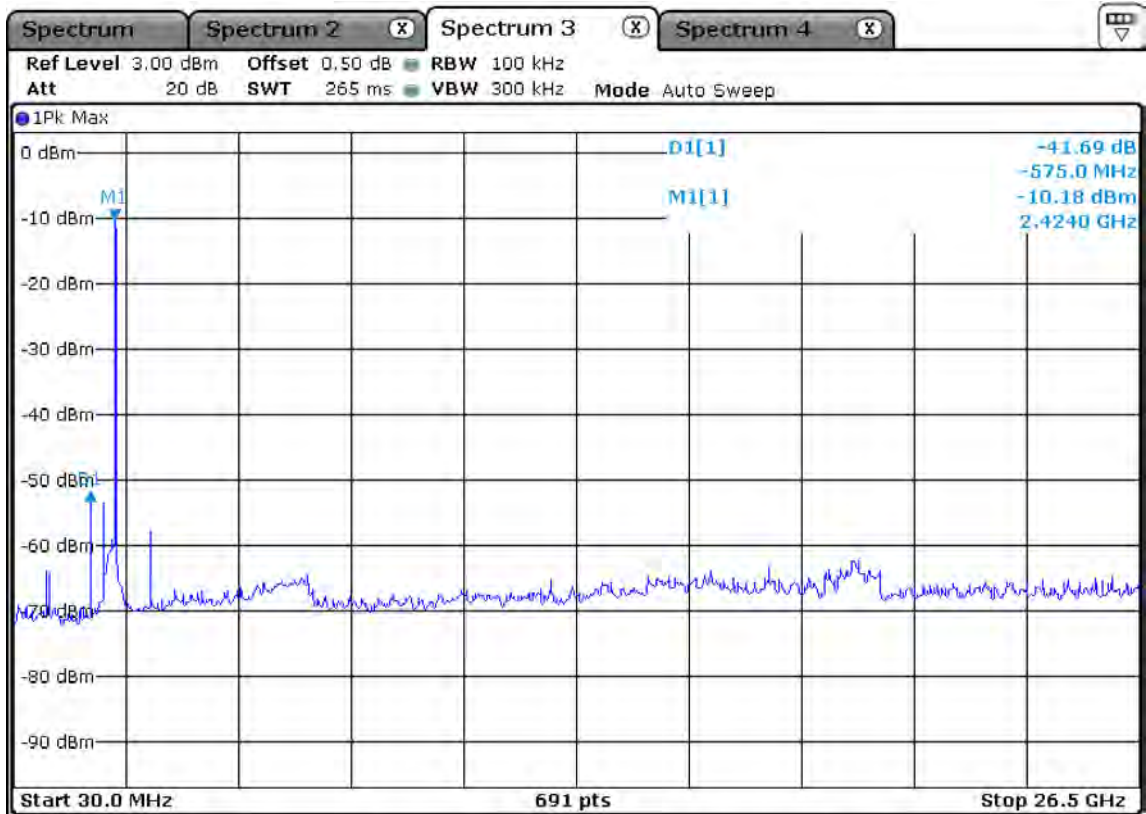


Frequency Range = 30 MHz ~ 26.5 GHz

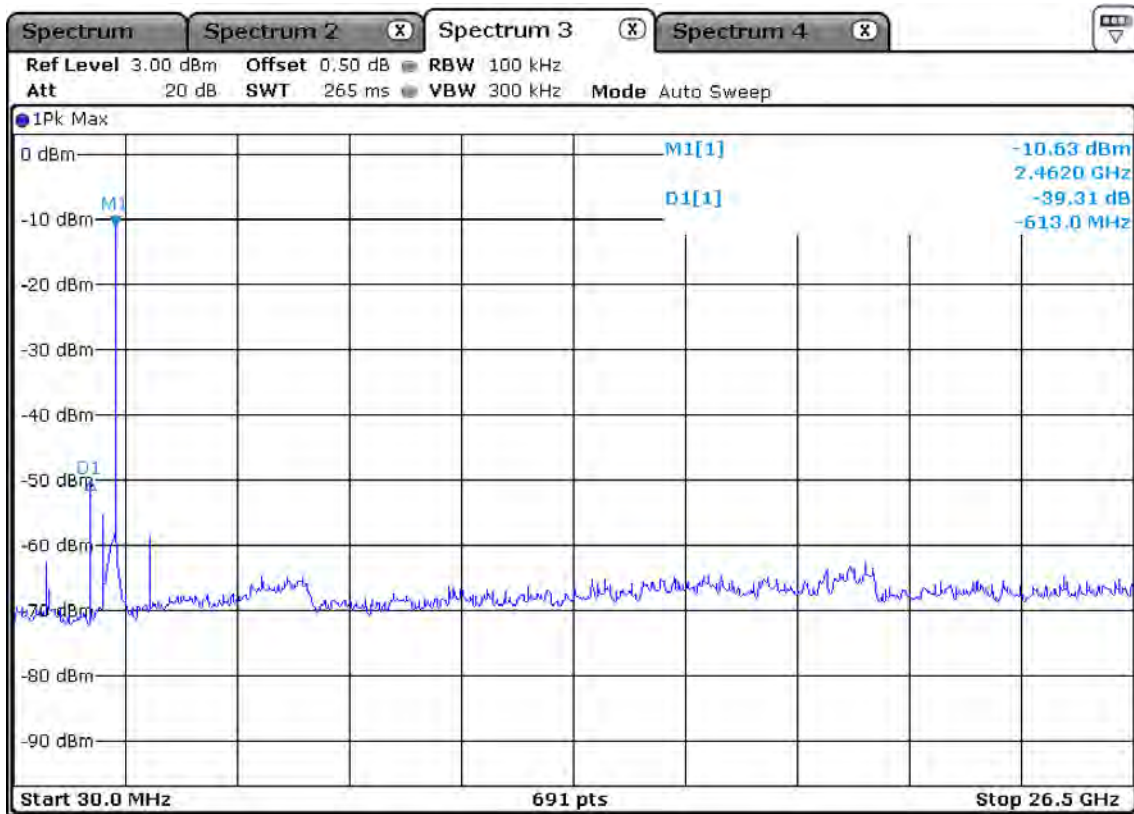
Unwanted Emission – Low Channel – 802.11 n



Middle Channel – 802.11 n



High Channel – 802.11 n



3.2.6 Radiated Spurious Emissions

Procedure:

The EUT was placed on a 0.8 m high wooden table inside a shielded enclosure. An antenna was placed near the EUT and measurements of frequencies and amplitudes of field strengths were recorded for reference during final measurements. For final radiated testing, measurements were performed in OATS. Measurements were performed with the EUT oriented in 3 orthogonal axis and rotated 360 degrees to determine worst-case orientation for maximum emissions.

The spectrum analyzer is set to:

Center frequency = the worst channel

Frequency Range = 9 kHz ~ 10th harmonic.

RBW = 120 kHz (30 MHz ~ 1 GHz)

= 1 MHz (1 GHz ~ 10th harmonic)

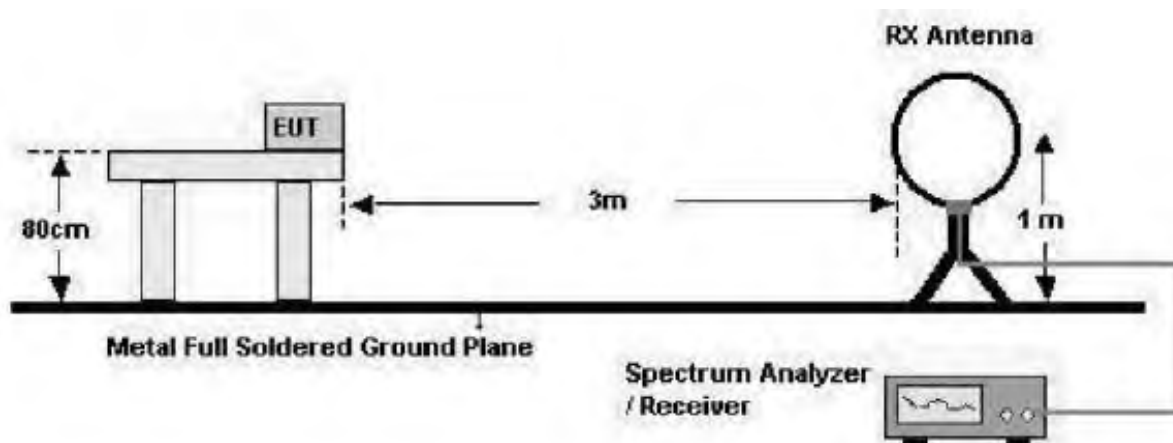
Detector function = peak

Sweep = auto

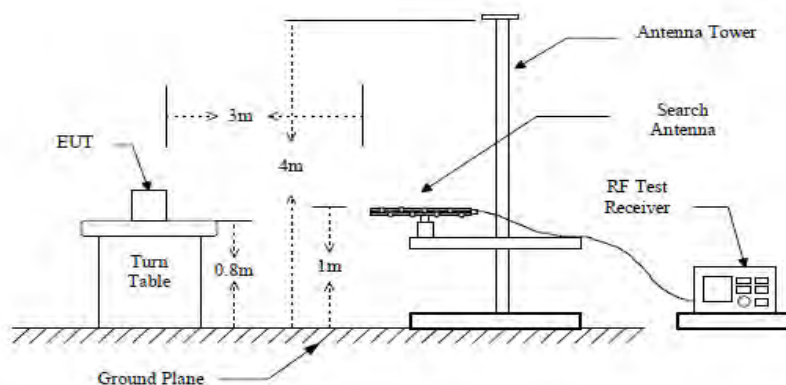
VBW \geq RBW

Trace = max hold

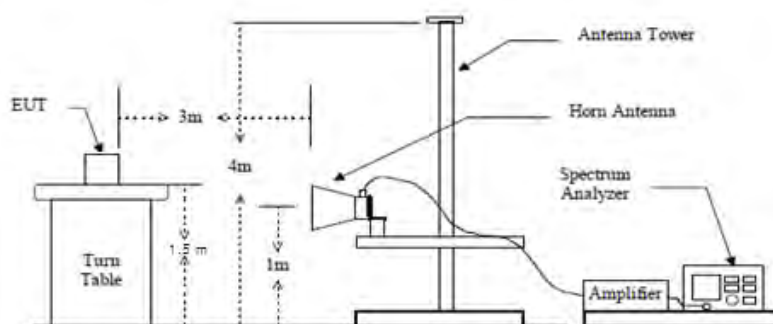
below 30 MHz



below 1 GHz (30 MHz to 1 GHz)



above 1 GHz



Measurement Data: **Complies**

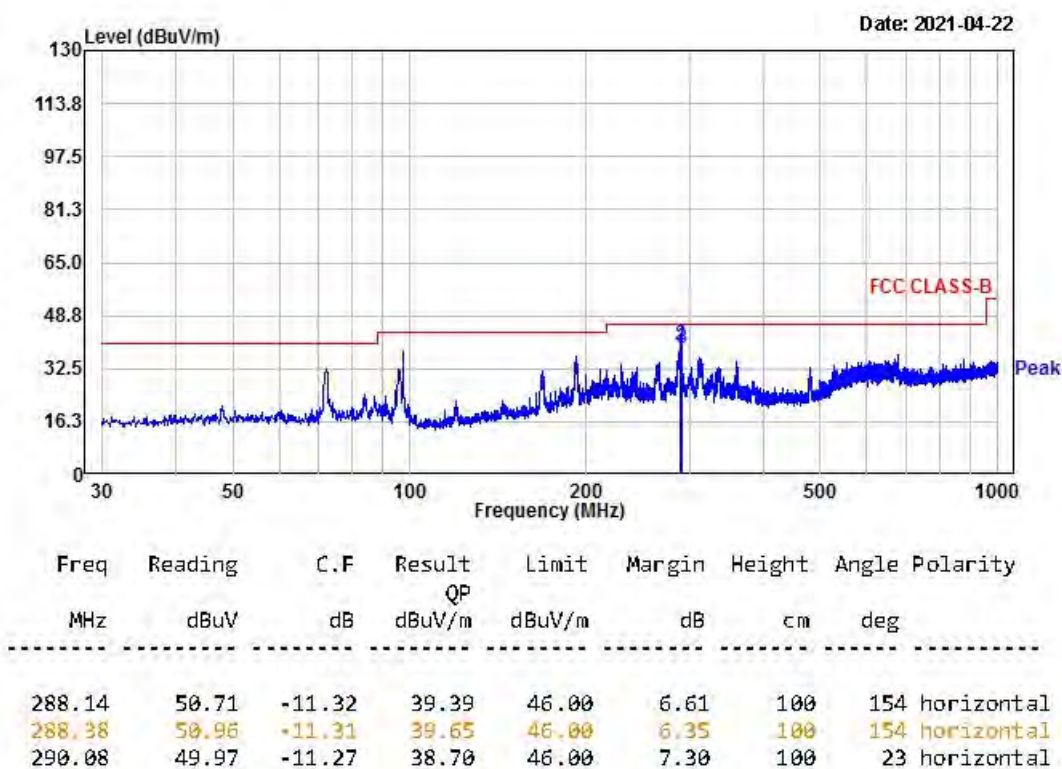
- See next pages for actual measured data.
- No other emissions were detected at a level greater than 20 dB below limit include from 9 kHz to 30 MHz.

Minimum Standard: FCC Part 15.209(a)

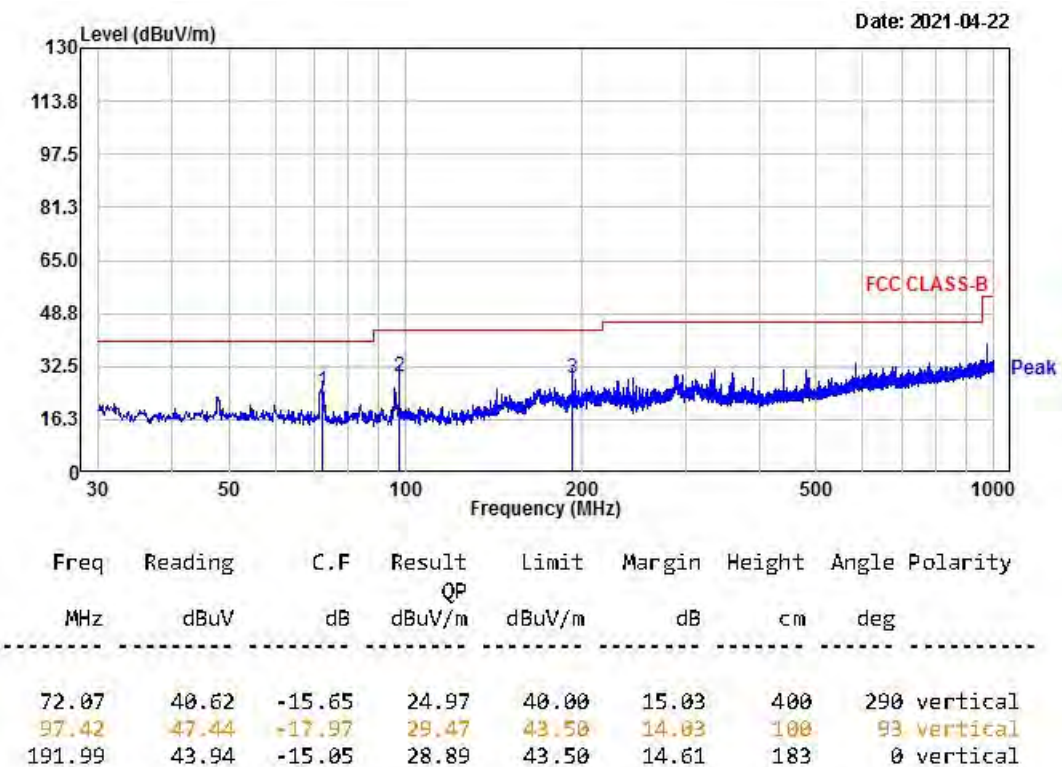
Frequency (MHz)	Limit (uV/m) @ 3 m
0.009 ~ 0.490	2400/F(kHz) (@ 300 m)
0.490 ~ 1.705	24000/F(kHz) (@ 30 m)
1.705 ~ 30	30(@ 30 m)
30 ~ 88	100 **
88 ~ 216	150 **
216 ~ 960	200 **
Above 960	500

** Except as provided in 15.209(g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g. 15.231 and 15.241.

Radiated Emissions (Below 1 GHz) – 802.11 b mode

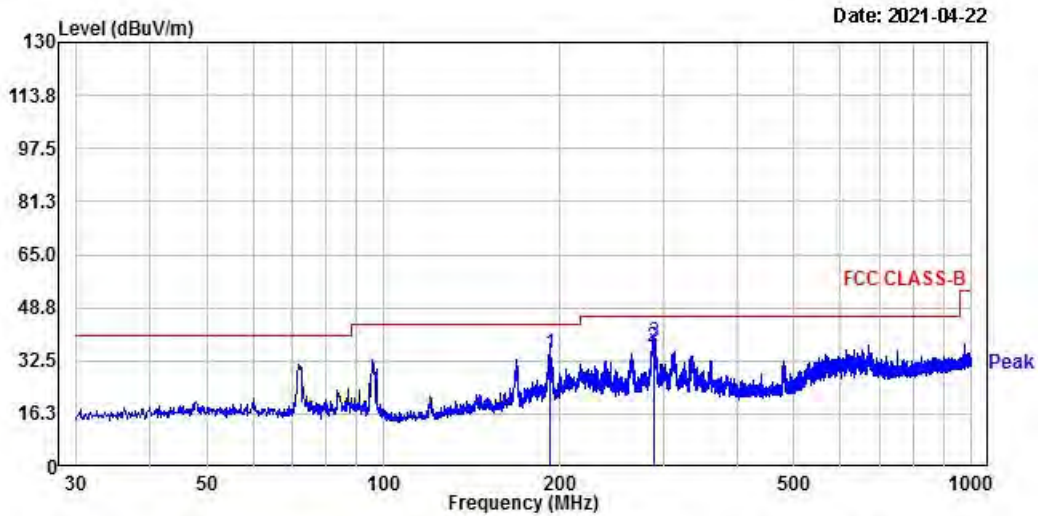


Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain



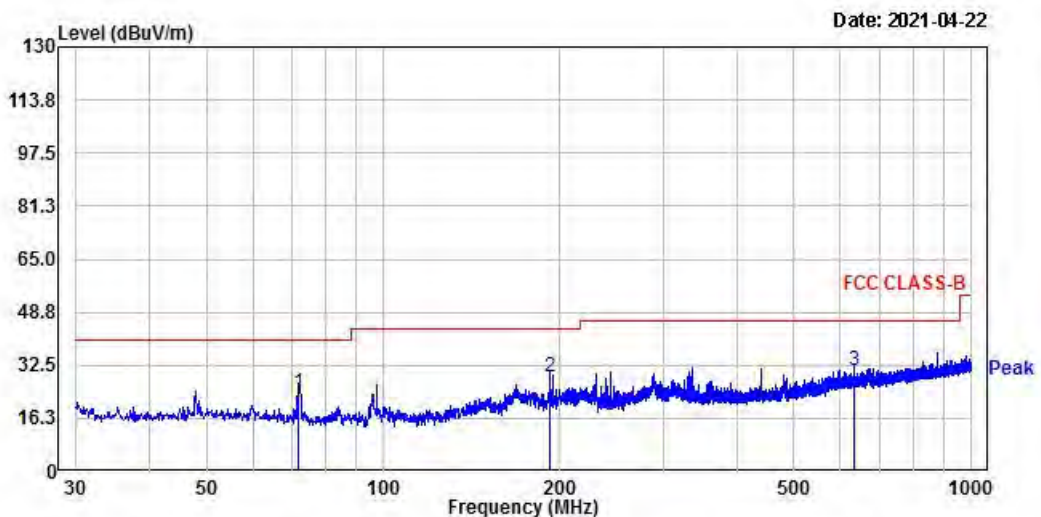
Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain

Radiated Emissions (Below 1 GHz) – 802.11 g mode



Freq MHz	Reading dBuV	C.F dB	Result QP dBuV/m	Limit dBuV/m	Margin dB	Height cm	Angle deg	Polarity
192.23	49.74	-15.05	34.69	43.50	8.81	100	35	horizontal
288.02	48.10	-11.32	36.78	46.00	9.22	100	151	horizontal
288.38	49.65	-11.31	38.34	46.00	7.66	100	24	horizontal

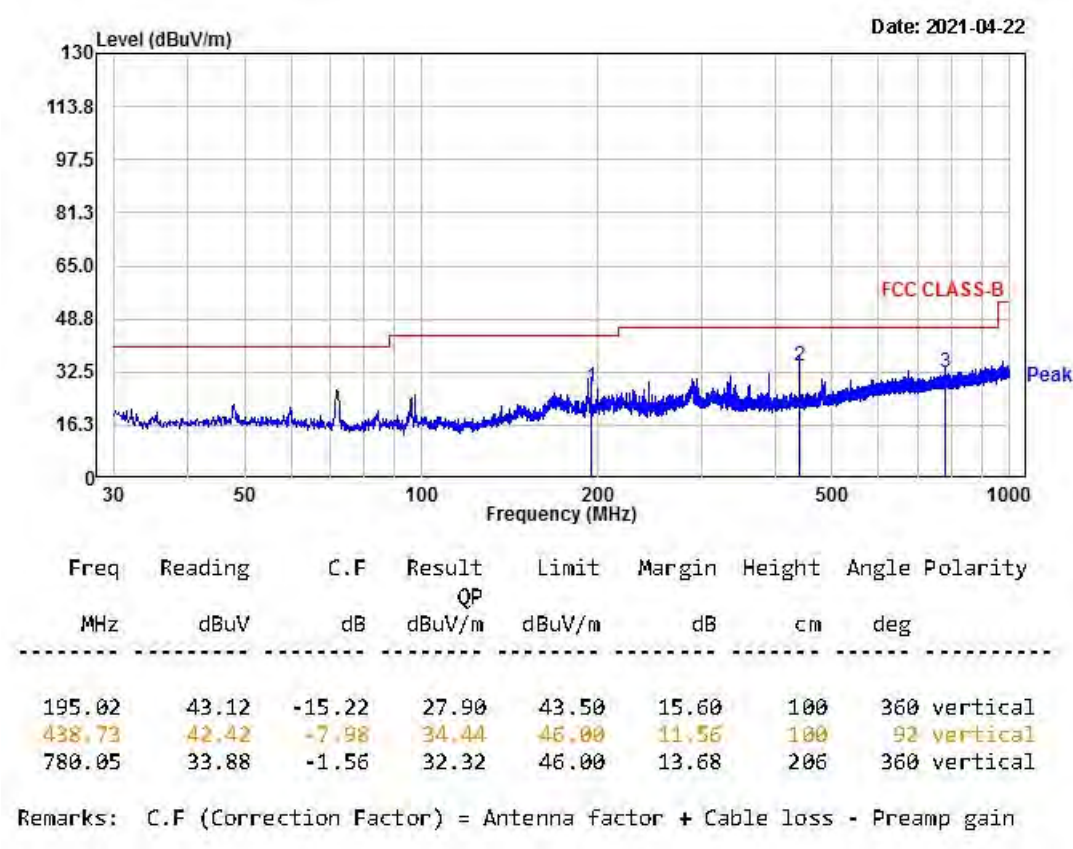
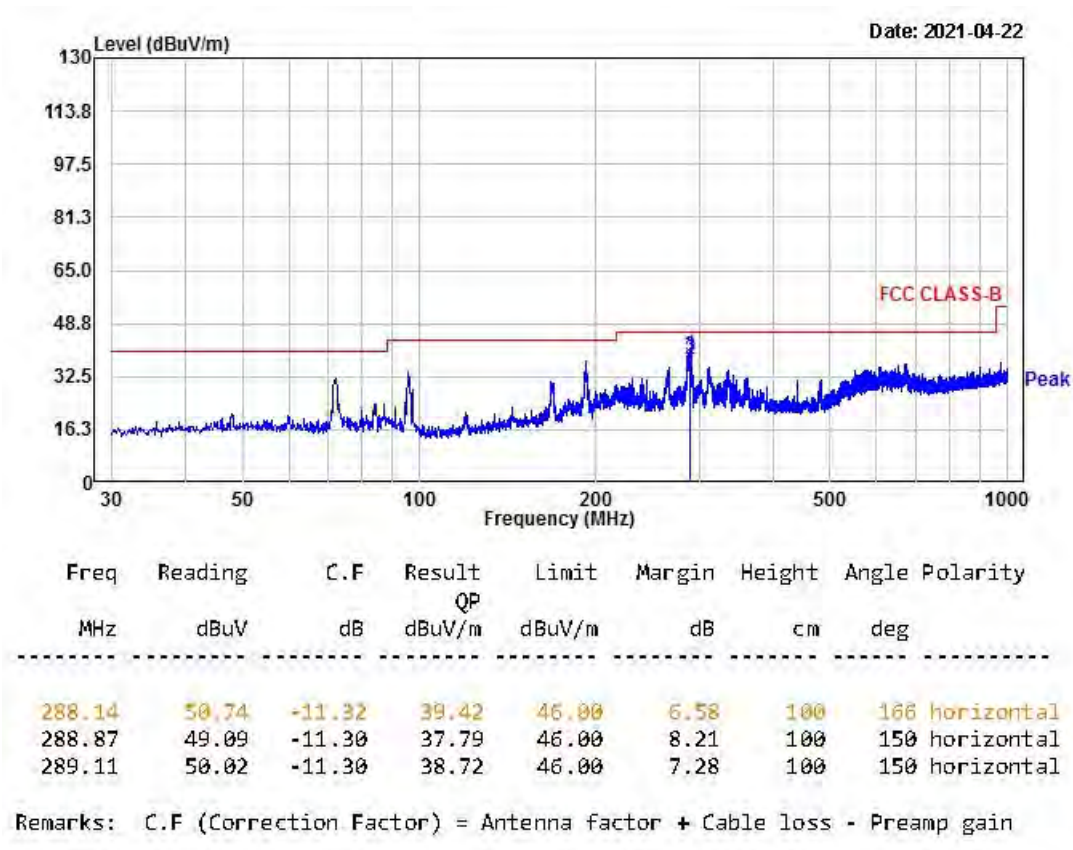
Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain



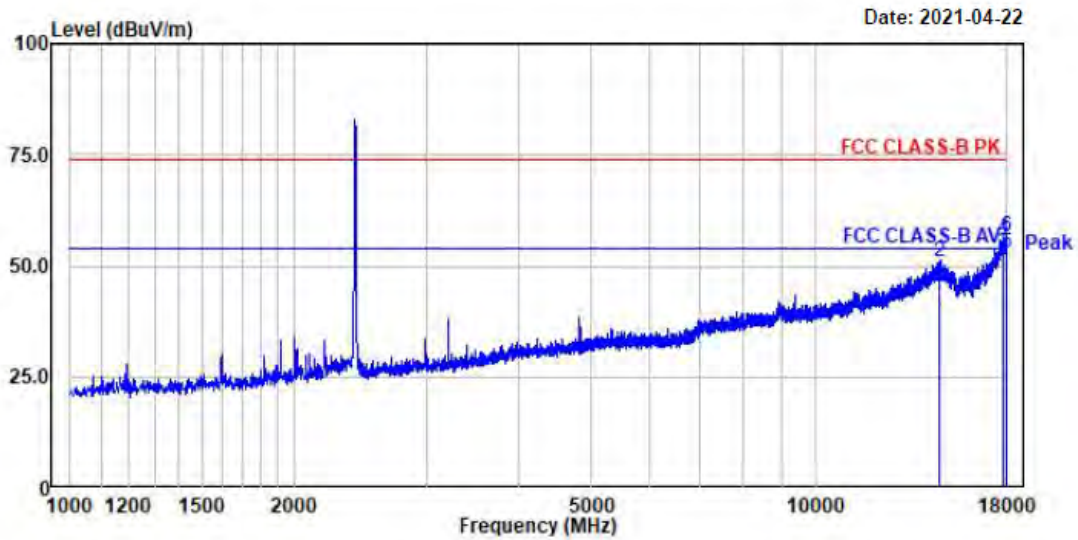
Freq MHz	Reading dBuV	C.F dB	Result QP dBuV/m	Limit dBuV/m	Margin dB	Height cm	Angle deg	Polarity
71.71	39.70	-15.59	24.11	40.00	15.89	400	265	vertical
191.99	43.83	-15.05	28.78	43.50	14.72	100	1	vertical
633.83	35.01	-4.28	30.73	46.00	15.27	100	53	vertical

Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain

Radiated Emissions (Below 1 GHz) – 802.11 n20 mode

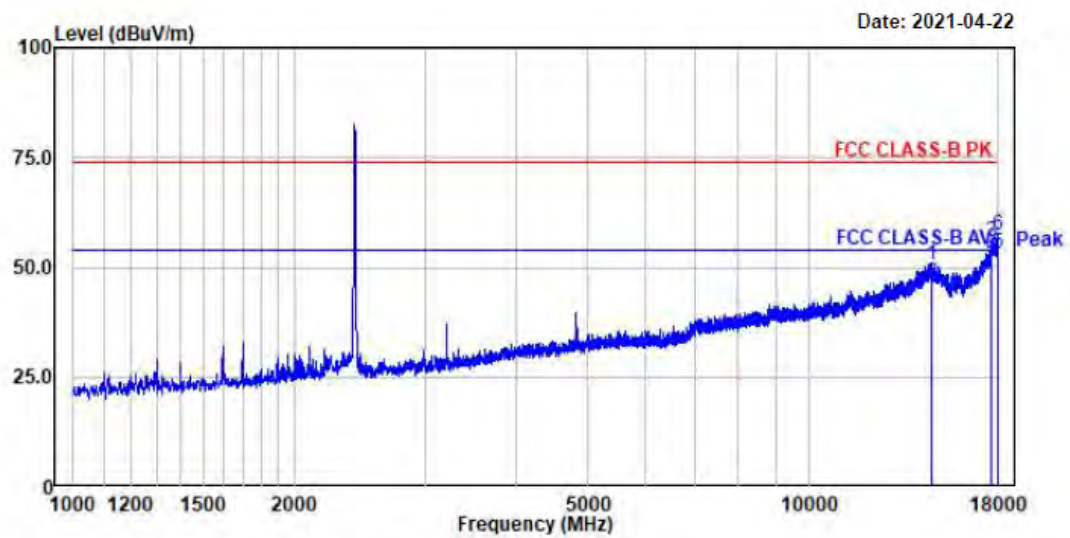


Radiated Emissions (Above 1 GHz) – 802.11 b mode



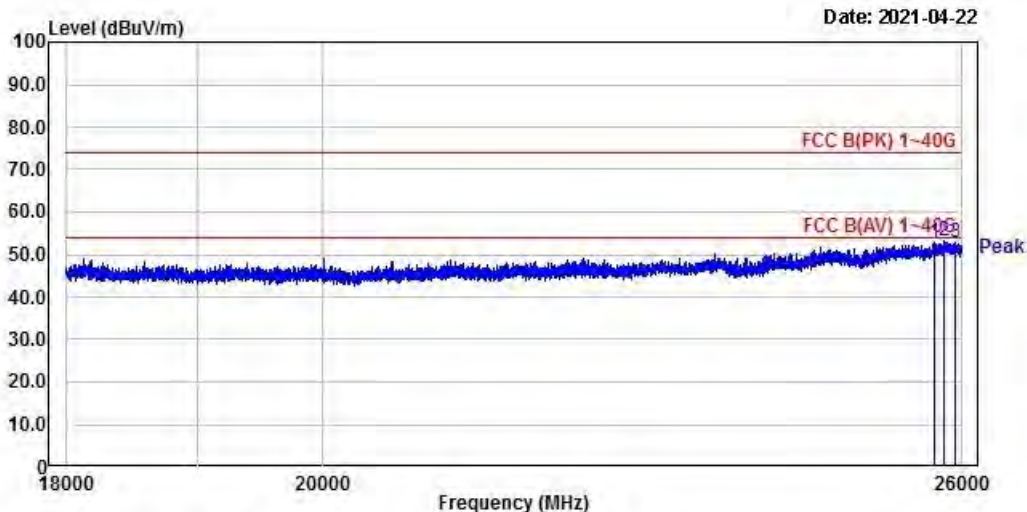
No.	Freq MHz	RD		C.F dB	Result		Limit		Margin		Height cm	Angle deg	Polarity
		PK dBuV	AV dBuV		PK dBuV	AV dBuV	PK dB	AV dB					
2.	14642.50	31.57	27.56	19.22	50.79	46.78	74.00	54.00	23.21	7.22	8	14	horizontal
4.	17791.75	31.92	28.22	24.43	56.35	52.65	74.00	54.00	17.65	1.35	86	93	horizontal
6.	17983.00	31.12	27.22	25.61	56.73	52.83	74.00	54.00	17.27	1.17	259	267	horizontal

Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain



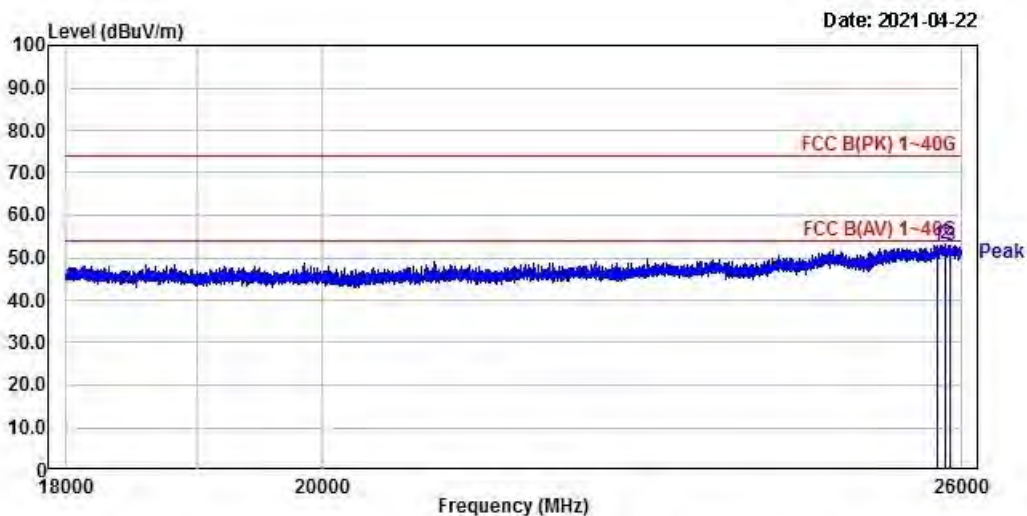
No.	Freq MHz	RD		C.F dB	Result		Limit		Margin		Height cm	Angle deg	Polarity
		PK dBuV	AV dBuV		PK dBuV	AV dBuV	PK dB	AV dB					
1.	14670.13	31.55	-----	19.14	50.69	-----	74.00	-----	23.31	-----	321	312	vertical
2.	14670.13	-----	27.34	19.14	-----	46.48	-----	54.00	-----	7.52	321	312	vertical
3.	17691.88	32.16	-----	23.82	55.98	-----	74.00	-----	18.02	-----	350	346	vertical
4.	17691.88	-----	28.70	23.82	-----	52.52	-----	54.00	-----	1.48	350	346	vertical
6.	17995.75	31.57	27.60	25.70	57.27	53.30	74.00	54.00	16.73	0.70	335	328	vertical

Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain



No.	Freq MHz	Reading dBuV	C.F dB	Result QP dBuV/m	Limit dBuV/m	Margin dB	Height cm	Angle deg	Polarity
1.	25713.57	34.72	18.20	52.92	74.00	21.08	100	201	horizontal
2.	25808.30	34.92	18.27	53.19	74.00	20.81	100	316	horizontal
3.	25929.58	34.84	18.18	53.02	74.00	20.98	100	352	horizontal

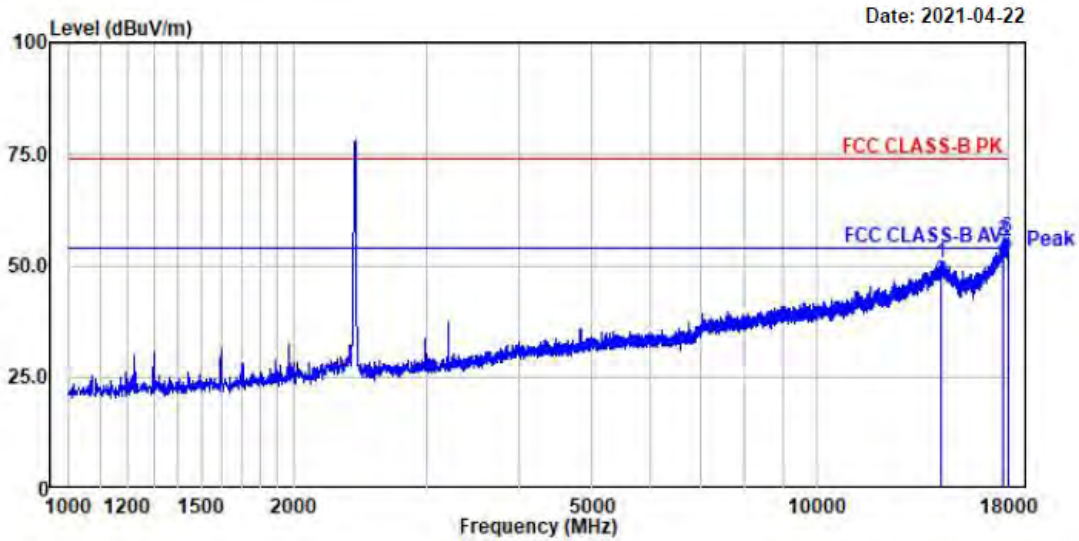
Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain



No.	Freq MHz	Reading dBuV	C.F dB	Result QP dBuV/m	Limit dBuV/m	Margin dB	Height cm	Angle deg	Polarity
1.	25740.77	34.55	18.23	52.78	74.00	21.22	100	280	vertical
2.	25840.35	34.89	18.25	53.14	74.00	20.86	100	187	vertical
3.	25887.90	34.76	18.20	52.96	74.00	21.04	100	360	vertical

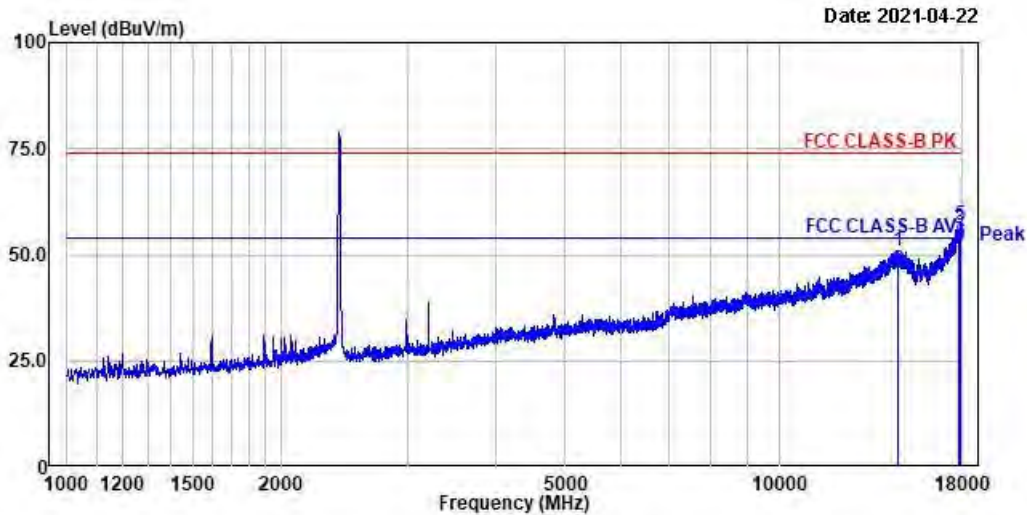
Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain

Radiated Emissions (Above 1 GHz) – 802.11 g mode



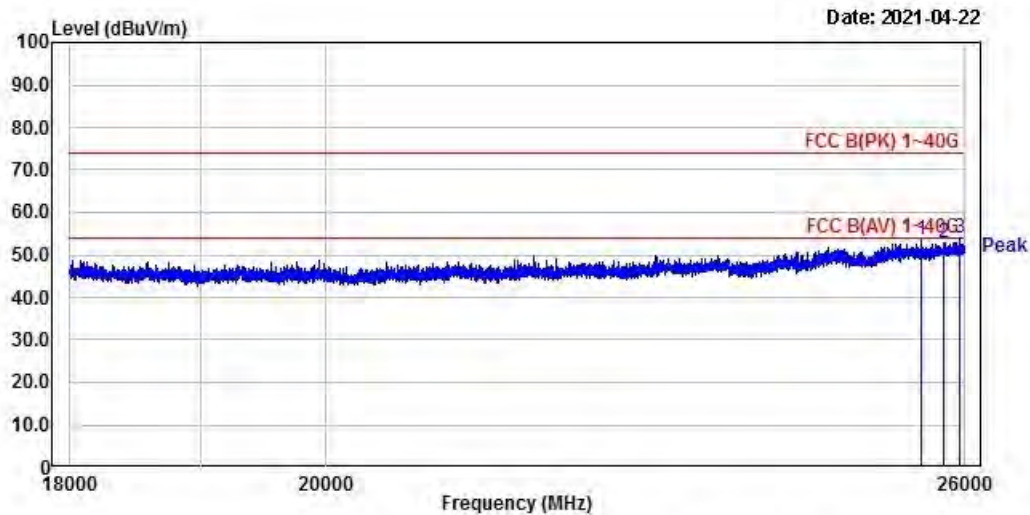
No.	Freq MHz	RD PK dB μ V	RD AV dB μ V	C.F dB	Result PK dB μ V	Result AV dB μ V	Limit PK dB μ V	Limit AV dB μ V	Margin PK dB	Margin AV dB	Height cm	Angle deg	Polarity
1.	14631.88	31.29	-----	19.24	50.53	-----	74.00	-----	23.47	-----	0	0	horizontal
2.	14631.88	-----	27.25	19.24	-----	46.49	-----	54.00	-----	7.51	0	0	horizontal
3.	17700.38	31.70	-----	23.86	55.56	-----	74.00	-----	18.44	-----	351	355	horizontal
4.	17700.38	-----	27.69	23.86	-----	51.55	-----	54.00	-----	2.45	351	355	horizontal
6.	17970.25	30.82	26.94	25.54	56.36	52.48	74.00	54.00	17.64	1.52	227	235	horizontal

Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain



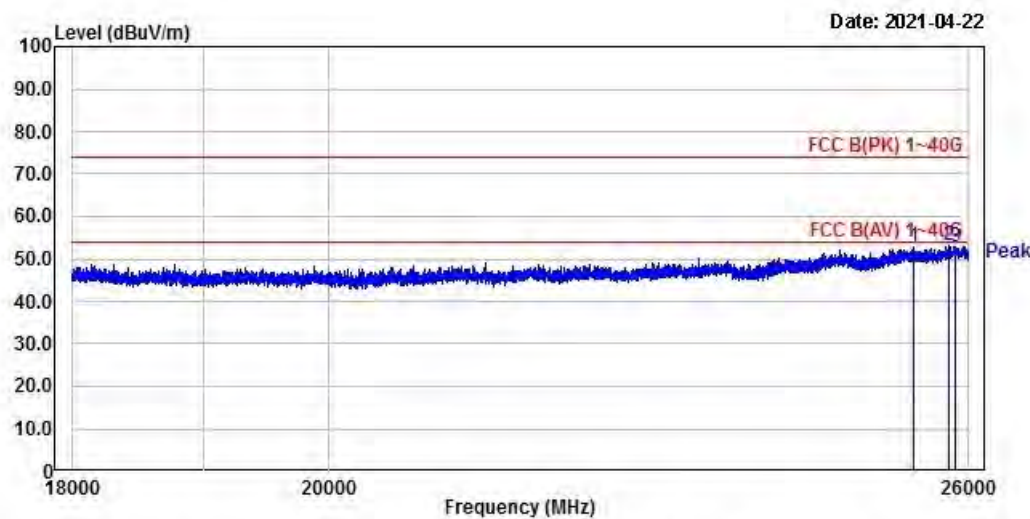
No.	Freq MHz	RD PK dB μ V	RD AV dB μ V	C.F dB	Result PK dB μ V	Result AV dB μ V	Limit PK dB μ V	Limit AV dB μ V	Margin PK dB	Margin AV dB	Height cm	Angle deg	Polarity
1.	14657.38	31.90	-----	19.17	51.07	-----	74.00	-----	22.93	-----	81	74	vertical
2.	14657.38	-----	27.29	19.17	-----	46.46	-----	54.00	-----	7.54	81	74	vertical
3.	17806.63	31.77	-----	24.51	56.28	-----	74.00	-----	17.72	-----	1	0	vertical
4.	17806.63	-----	27.53	24.51	-----	52.84	-----	54.00	-----	1.96	1	0	vertical
5.	17968.13	31.58	-----	25.52	57.10	-----	74.00	-----	16.90	-----	49	42	vertical
6.	17968.13	-----	27.43	25.52	-----	52.95	-----	54.00	-----	1.85	49	42	vertical

Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain



No.	Freq MHz	Reading dB μ V	C.F dB	Result QP dB μ V/m	Limit dB μ V/m	Margin dB	Height cm	Angle deg	Polarity
1.	25538.06	35.35	18.14	53.49	74.00	20.51	100	351	horizontal
2.	25781.03	34.55	18.26	52.81	74.00	21.19	100	160	horizontal
3.	25959.40	35.76	18.19	53.95	74.00	20.05	100	74	horizontal

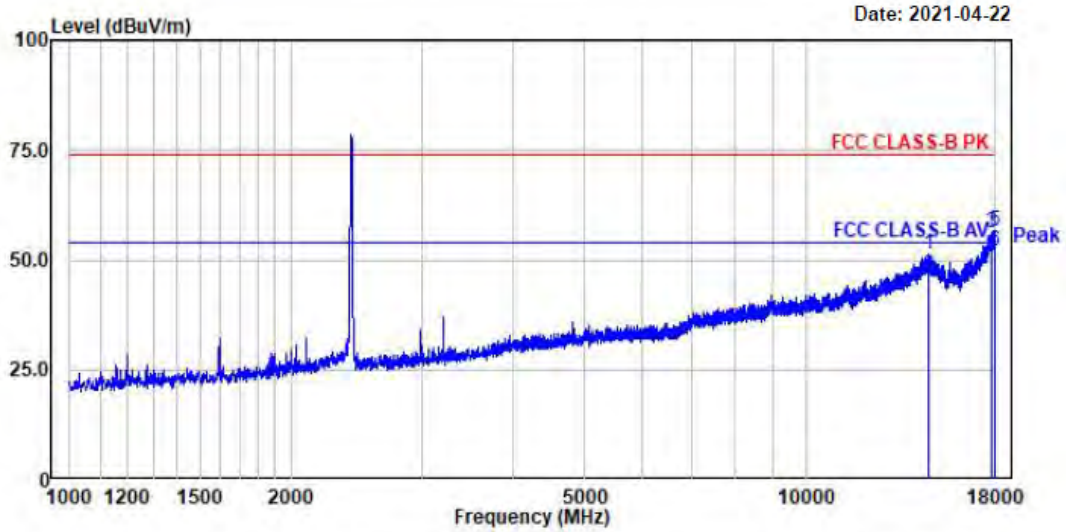
Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain



No.	Freq MHz	Reading dB μ V	C.F dB	Result QP dB μ V/m	Limit dB μ V/m	Margin dB	Height cm	Angle deg	Polarity
1.	25423.28	34.90	17.90	52.80	74.00	21.20	100	360	vertical
2.	25804.74	34.81	18.28	53.09	74.00	20.91	100	360	vertical
3.	25867.68	34.72	18.22	52.94	74.00	21.06	100	326	vertical

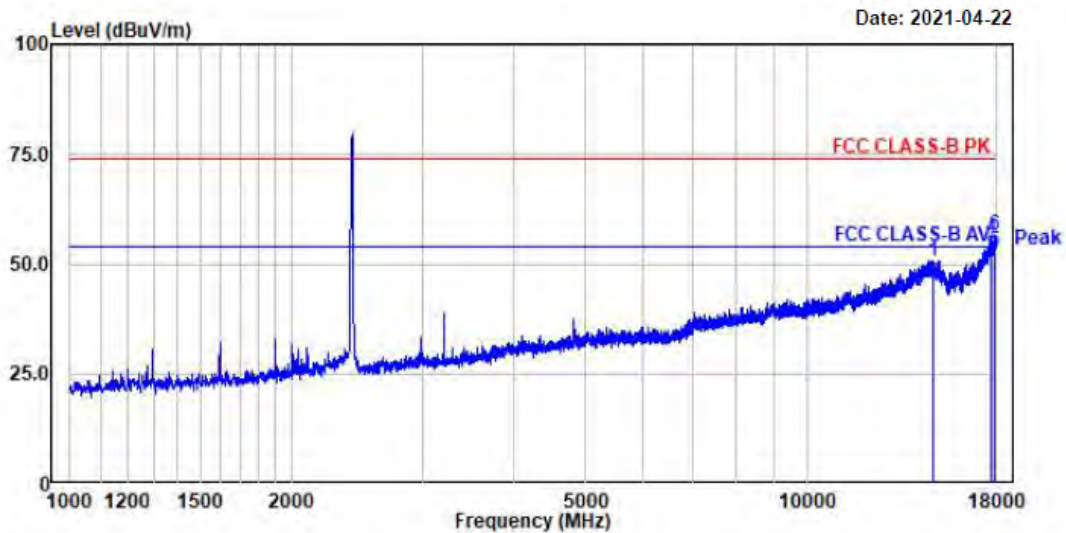
Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain

Radiated Emissions (Above 1 GHz) – 802.11 n20 mode



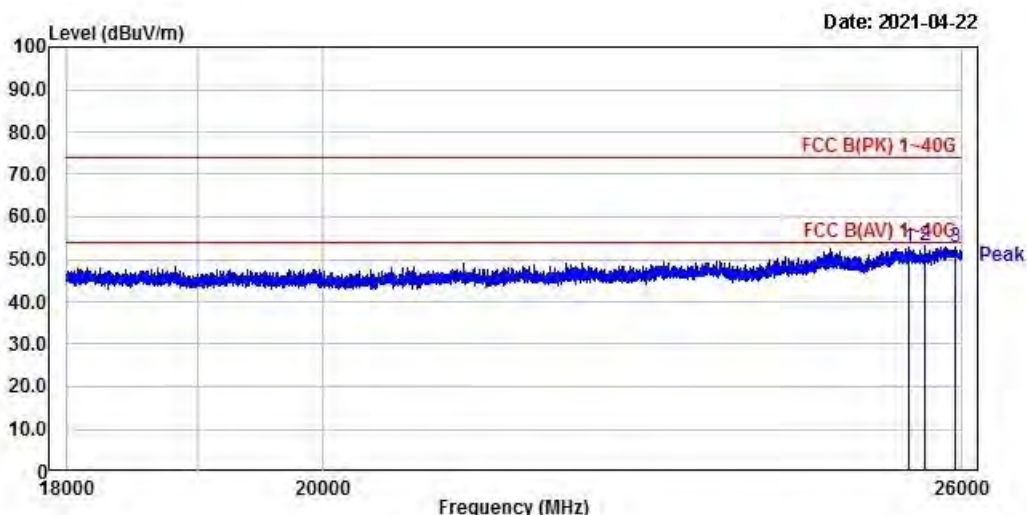
No.	Freq MHz	RD PK dB μ V	RD AV dB μ V	C.F dB	Result PK dB μ V	Result AV dB μ V	Limit PK dB μ V	Limit AV dB μ V	Margin PK dB	Margin AV dB	Height cm	Angle deg	Polarity
1.	14640.38	31.91	27.25	19.23	51.14	46.48	74.00	54.00	22.86	7.52	359	360	horizontal
2.	14640.38	31.91	27.25	19.23	51.14	46.48	74.00	54.00	22.86	7.52	359	360	horizontal
3.	17819.38	31.49	24.60	25.60	56.09	52.04	74.00	54.00	17.91	1.96	262	268	horizontal
4.	17819.38	31.49	24.60	25.60	56.09	52.04	74.00	54.00	17.91	1.96	262	268	horizontal
5.	17980.88	30.84	25.60	25.60	56.44	51.98	74.00	54.00	17.56	2.02	118	125	horizontal
6.	17980.88	30.84	25.60	25.60	56.44	51.98	74.00	54.00	17.56	2.02	118	125	horizontal

Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain



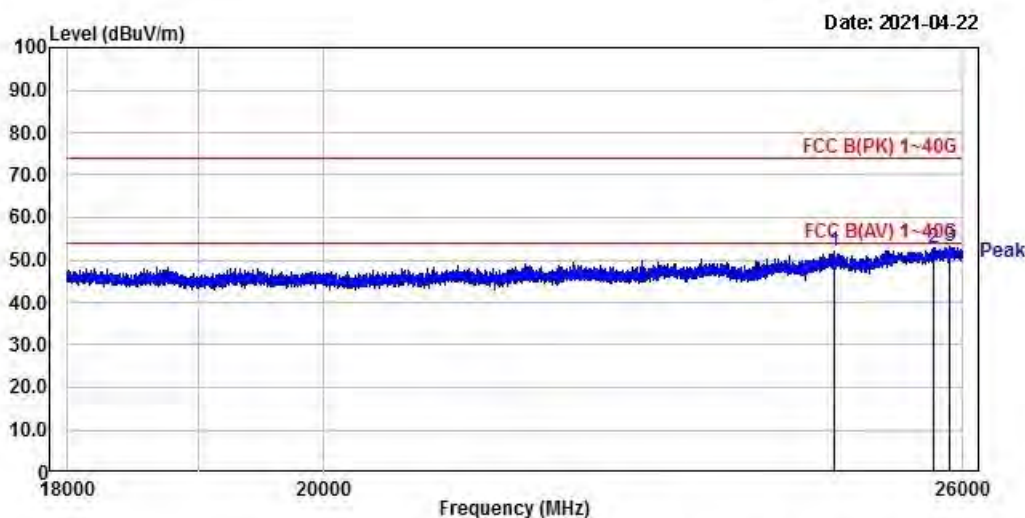
No.	Freq MHz	RD PK dB μ V	RD AV dB μ V	C.F dB	Result PK dB μ V	Result AV dB μ V	Limit PK dB μ V	Limit AV dB μ V	Margin PK dB	Margin AV dB	Height cm	Angle deg	Polarity
1.	14767.88	31.84	26.94	18.87	50.71	45.81	74.00	54.00	23.29	8.19	360	360	vertical
2.	14767.88	31.84	26.94	18.87	50.71	45.81	74.00	54.00	23.29	8.19	360	360	vertical
4.	17698.25	32.17	27.86	23.85	56.02	51.71	74.00	54.00	17.98	2.29	2	0	vertical
6.	17957.50	31.20	27.35	25.46	56.66	52.81	74.00	54.00	17.34	1.19	0	0	vertical

Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain



No.	Freq MHz	Reading dBμV	C.F dB	Result QP dBμV/m	Limit dBμV/m	Margin dB	Height cm	Angle deg	Polarity
1.	25445.49	34.92	17.99	52.91	74.00	21.09	100	0	horizontal
2.	25619.19	35.10	18.10	53.20	74.00	20.80	100	260	horizontal
3.	25942.70	34.83	18.19	53.02	74.00	20.98	100	12	horizontal

Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain



No.	Freq MHz	Reading dBμV	C.F dB	Result QP dBμV/m	Limit dBμV/m	Margin dB	Height cm	Angle deg	Polarity
1.	24673.79	35.00	17.10	52.10	74.00	21.90	100	141	vertical
2.	25689.94	34.59	18.18	52.77	74.00	21.23	100	3	vertical
3.	25867.68	35.15	18.22	53.37	74.00	20.63	100	0	vertical

Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain

3.2.6 AC Conducted Emissions

Procedure:

The conducted emissions are measured in the shielded room with a spectrum analyzer in peak hold. While the measurement, EUT had its hopping function disabled at the middle channels in line with Section 15.31(m). Emissions closest to the limit are measured in the quasi-peak mode (QP) with the tuned receiver using a bandwidth of 9 kHz. The emissions are maximized further by cable manipulation and Exerciser operation. The highest emissions relative to the limit are listed.

Measurement Data: NA

Minimum Standard: FCC Part 15.207(a) / EN 55022

Class B

Frequency Range	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

APPENDIX
TEST EQUIPMENT USED FOR TESTS

	Use	Description	Model No.	Serial No.	Manufacturer	Interval	Next Cal. Date
1	■	Signal Analyzer (9 kHz ~ 30 GHz)	FSV30	100757	R&S	1 year	2021-09-06
2	■	Signal Generator (~3.2 GHz)	8648C	3623A02597	HP	1 year	2022-03-20
3		SYNTHESIZED CW GENERATOR	83711B	US34490456	HP	1 year	2022-03-20
4		Attenuator (3 dB)	8491A	37822	HP	1 year	2021-09-06
5		Attenuator (10 dB)	8491A	63196	HP	1 year	2021-09-06
6	■	EMI Test Receiver (~7 GHz)	ESC17	100722	R&S	1 year	2021-09-06
7		RF Amplifier (~1.3 GHz)	8447D OPT 010	2944A07684	HP	1 year	2021-09-06
8	■	RF Amplifier (1~26.5 GHz)	8449B	3008A02126	HP	1 year	2022-03-15
9	■	Horn Antenna (1~18 GHz)	3115	00114105	ETS	2 year	2021-09-17
10	■	DRG Horn (Small)	3116B	81109	ETS-Lindgren	2 year	2022-05-12
11		DRG Horn (Small)	3116B	133350	ETS-Lindgren	2 year	2022-05-12
12	■	TRILOG Antenna	VULB 9160	9160-3237	SCHWARZBECK	2 year	2022-05-12
13		Temp.Humidity Data Logger	SK-L200TH II A	00801	SATO	1 year	2022-03-20
14		Splitter (SMA)	ZFSC-2-2500	SF617800326	Mini-Circuits	-	-
15	■	DC Power Supply	6674A	3637A01657	Agilent	-	-
17	■	Power Meter	EPM-441A	GB32481702	HP	1 year	2022-03-20
18	■	Power Sensor	8481A	3318A94972	HP	1 year	2021-09-06
19		Audio Analyzer	8903B	3729A18901	HP	1 year	2021-09-06
20		Modulation Analyzer	8901B	3749A05878	HP	1 year	2021-09-06
21		TEMP & HUMIDITY Chamber	YJ-500	LTAS06041	JinYoung Tech	1 year	2021-09-06
22		Stop Watch	HS-3	812Q08R	CASIO	2 year	2023-03-20
23		LISN	KNW-407	8-1430-1	Kyoritsu	1 year	2021-09-06
24		Two-Lime V-Network	ESH3-Z5	893045/017	R&S	1 year	2022-03-20
25		UNIVERSAL RADIO COMMUNICATION TESTER	CMU200	106243	R&S	1 year	2022-03-20
26		Highpass Filter	WHKX1.5/15G-10SS	74	Wainwright Instruments	1 year	2022-03-20
27		Highpass Filter	WHKX3.0/18G-10SS	118	Wainwright Instruments	1 year	2022-03-20
28		OSP120 BASE UNIT	OSP120	101230	R&S	1 year	2022-03-20
29		Signal Generator(100 kHz ~ 40 GHz)	SMB100A03	177621	R&S	1 year	2022-03-20
30		Signal Analyzer (10 Hz ~ 40 GHz)	FSV40	101367	R&S	1 year	2022-03-20
31		Active Loop Antenna	FMZB 1519	1519-031	SCHWARZBECK	2 year	2023-03-20