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Dates of Tests: May 23, 2023 ~ June 28, 2023

Test Report S/N: LR500112306A Test Site: LTA CO., LTD.

CERTIFICATION OF COMPLIANCE

FCC ID.

APPLICANT

2BBRCHN-SSC

Honeynaps Co., Ltd

Equipment Class: Unlicensed National Information Infrastructure TX (NII)

Manufacturing Description:Sleep Sensing DeviceManufacturer:Honeynaps Co., Ltd

Model name : HN-SSC

Test Device Serial No.: : Identical prototype

Rule Part(s) : FCC Part 15.407 Subpart E ; ANSI C63.10 - 2013

Frequency Range : 802.11 a/ an20/ an40/ ac20/ ac40/ ac80

5150 ~ 5250 MHz, 5725 ~ 5850 MHz

Max. Output Power : Max 6.16 dBm - Conducted

Data of issue : June 28, 2023

This test report is issued under the authority of:

The test was supervised by:

Jabeom. Koo

Ja-Beom Koo, Manager

Eun-Hwan Jung, Test Engineer

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1. General information

1-1 Test Performed

Company name : LTA Co., Ltd.

Address : 243, Jubug-ri, Yangji-Myeon, Youngin-Si, Kyunggi-Do, Korea. 17159

Web site : http://www.ltalab.com
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Facsimile +82-31-323-6010

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	2023-09-28	ECT accredited Lab.
RRA	KOREA	KR0049	-	EMC accredited Lab.
FCC	U.S.A	649054	2024-04-08	FCC CAB
VCCI	JAPAN	C-4948,	2023-09-10	VCCI registration
VCCI	JAPAN	T-2416,	2023-09-10	VCCI registration
VCCI	JAPAN	R-4483(10 m),	2023-10-15	VCCI registration
VCCI	JAPAN	G-847	2024-12-13	VCCI registration
IC	CANADA	5799A-1	2024-08-15	IC filing

Ref. No.: LR500112306A

2. Information about test item

2-1 Client & Manufacturer

Client Company name : Honeynaps Co., Ltd

Address : 4F, 529, Nonhyeon-ro, Gangnam-gu, Seoul, Republic of Korea

Tel / Fax : +82 10-6795-8804 / +82 2-567-0134

Manufacturer Honeynaps Co., Ltd

Address 4F, 529, Nonhyeon-ro, Gangnam-gu, Seoul, Republic of Korea

Tel / Fax +82 10-6795-8804 / +82 2-567-0134

2-2 Equipment Under Test (EUT)

Model name : HN-SSC

Serial number : Identical prototype

Date of receipt : May 23, 2023

EUT condition : Pre-production, not damaged

Antenna type : FPCB Antenna (Max Gain : 5 dBi)

Frequency Range : $\frac{802.11 \text{ a}}{5150} \approx \frac{302.11 \text{ a}}{5250 \text{ MHz}} \approx \frac{302.11 \text{ a}}{5725} \approx \frac{302.11 \text{ a}}{5850 \text{ MHz}} \approx \frac{302.11 \text{ a}}{5150} \approx \frac{302.11 \text{ a}}{51$

RF output power : Max 6.16 dBm – Conducted

Type of Modulation : BPSK, QPSK, 16-QAM, 64-QAM

Power Source : DC 5 V

2-3 Tested frequency

	LOW	MID	HIGH
Engagement (MHz) 802 11 a/an 20/a 20	5180	5200	5240
Frequency (MHz) 802.11 a/an20/ac20	5745	5785	5825
Fuccionary (MHz) 902 11 and 0/2240	5190		5230
Frequency (MHz) 802.11 an40/ac40	5755		5795
Engage (MIII.) 902 11 a 200		5210	
Frequency (MHz) 802.11 ac80		5775	

2-4 Ancillary Equipment

Equipment	Model No.	Serial No.	Manufacturer
Notebook	-	MS-1736	MSI

3. Test Report

3.1 Summary of tests

FCC Part Section(s)	Parameter	Test Condition	Status (note 1)
15.407(a)(3)	26 dB Bandwidth		С
15.407(a)(3)	Transmitter Peak Output Power		С
15.407(a)(3)	Peak power spectral density	Conducted	С
15.407(b)(4)	Band Edge & Conducted Spurious emission		С
15.407(e)	6 dB Bandwidth		С
15.209	Transmitter emission	Radiated	С
15.207	AC Conducted Emissions	Conducted	N/A
15.203	Antenna requirement	-	С

 $\ensuremath{N/A}$: This product is battery-enabled and excludes the test.

N/A1: It is a product in a band that does not have DFS function.

The above equipment was tested by LTA Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10-2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 2 and Part 15.407 The test results of this report relate only to the tested sample identified in this report.

The tests were performed according to the method of measurements prescribed in KDB No.789033.

→ Antenna Requirement

Honeynaps Co., Ltd $\,$ FCC ID: 2BBRCHN-SSC unit complies with the requirement of §15.203. The antenna type is FPCB Antenna

3.2 Technical Characteristics Test

3.2.1 26 dB, 99% Bandwidth

Procedure:

The 99-percent occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5 % of the total mean power of the given emission. Measurement of the 99-percent occupied bandwidth is required only as a condition for using the optional band-edge measurement techniques described in section H)3)d). Measurements of 99-percent occupied bandwidth may also optionally be used in lieu of the 26-dB emission bandwidth to define the minimum frequency range over which the spectrum is integrated when measuring maximum conducted output power as described in section E). However, the 26-dB bandwidth must be measured to determine bandwidth dependent limits on maximum conducted output power in accordance with 15.407(a).

The spectrum analyzer is set to:

Center frequency = the highest, middle and the lowest channels

RBW = 1 % to 5 % of the OBW Span = 3 X RBW

Set VBW ≥ 3 X RBW Set span = 1.5 times to 5.0 times the OBW.

Trace = max hold Detector function = peak

Mode Frequency (MHz)			Test Results	
		26 dB Bandwidth(MHz)	99 % Bandwidth(MHz)	Result
	5180	31.838	16.860	
	5200	33.357	16.787	
_	5240	31.187	16.787	Commlian
a	5745	20.550	16.498	Complies
	5785	20.478	16.425	
	5825	20.550	16.425	
	5180	20.912	17.583	
	5200	20.839	17.511	
an20	5240	20.912	17.583	Complian
anzu	5745	20.550	17.511	Complies
	5785	20.550	17.511	
	5825	20.550	17.511	
	5180	20.695	17.583	
	5200	20.550	17.583	
2020	5240	20.695	17.511	Commilian
ac20	5745	20.478	17.583	Complies
	5785	20.550	17.532	
	5825	20.550	17.583	

Mode Frequency		Test Results			
Mode	(MHz)	26 dB Bandwidth(MHz)	99 % Bandwidth(MHz)	Result	
	5190	42.692	35.962		
40	5230	42.185	35.962	Games 11 a s	
an40	5755	42.185	35.890	Complies	
	5795	42.258	35.890		
	5190	42.185	35.962		
2240	5230	42.041	35.890	Complies	
ac40	5755	42.185	36.252	Complies	
	5795	41.968	36.252		

Mode Frequency (MHz)		Test Results		
		26 dB Bandwidth(MHz)	99 % Bandwidth(MHz)	Result
2.200	5210 82.920		76.122	Complies
ac80	5775	82.780	76.122	Complies

- See next pages for actual measured spectrum plots.

Minimum Standard:

Measurement Setup

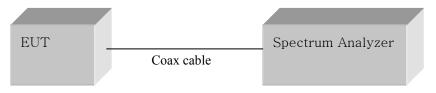
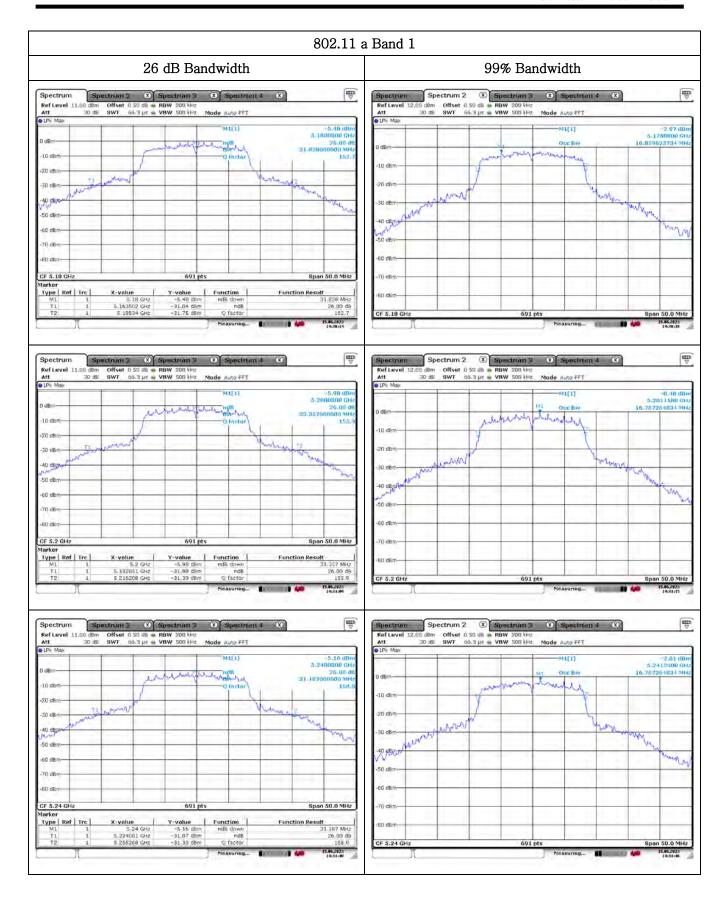
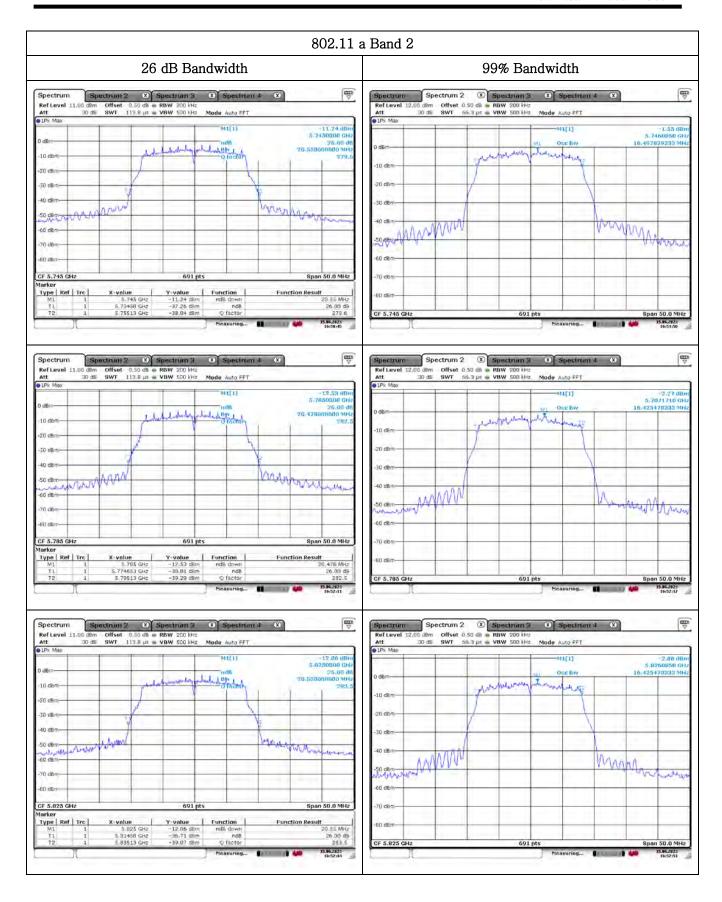
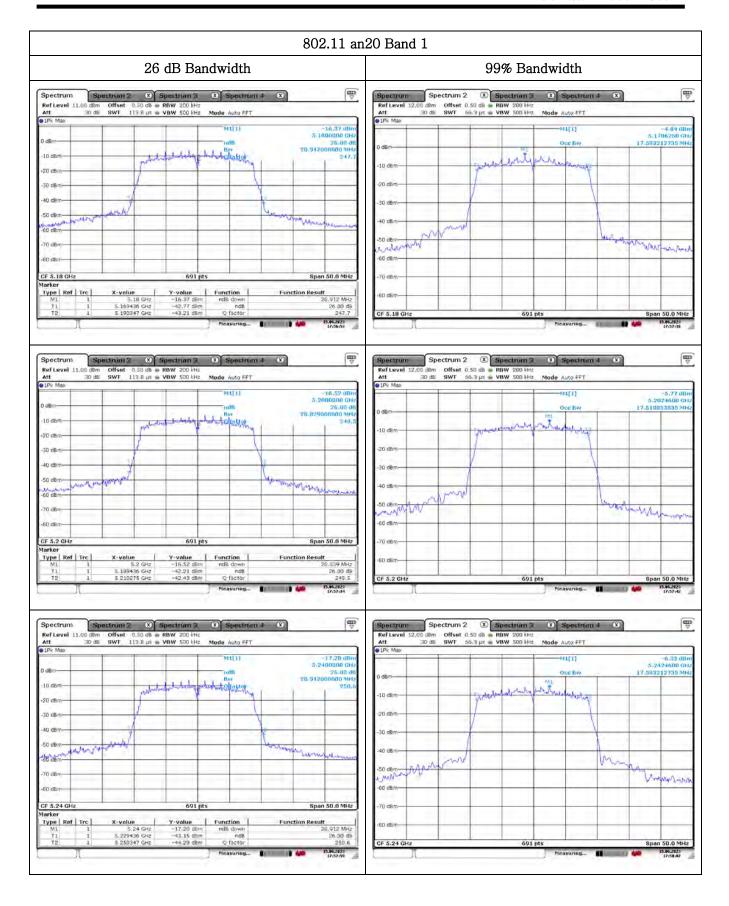
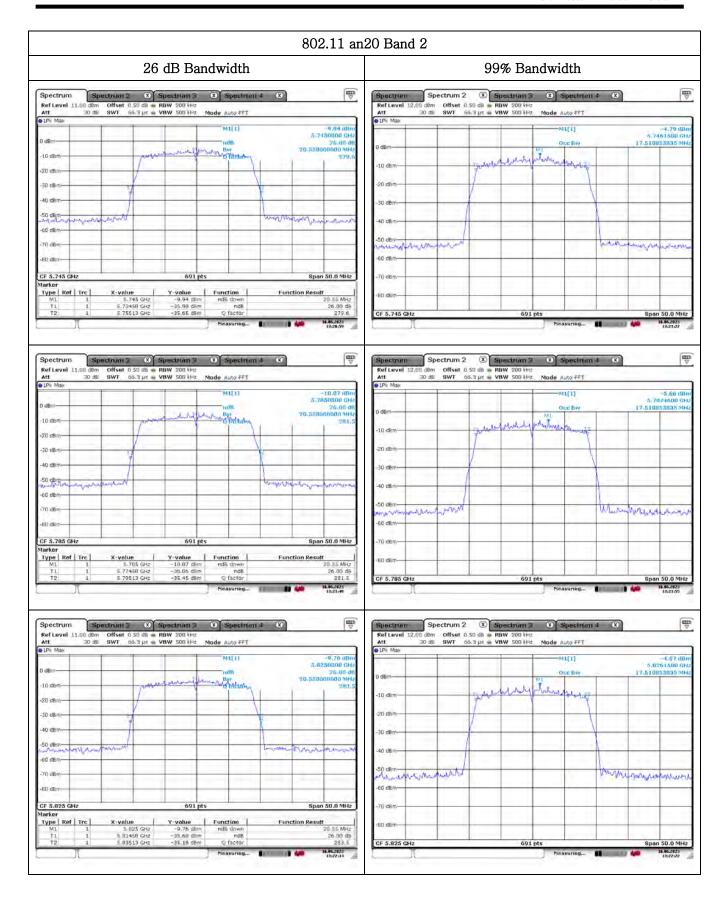


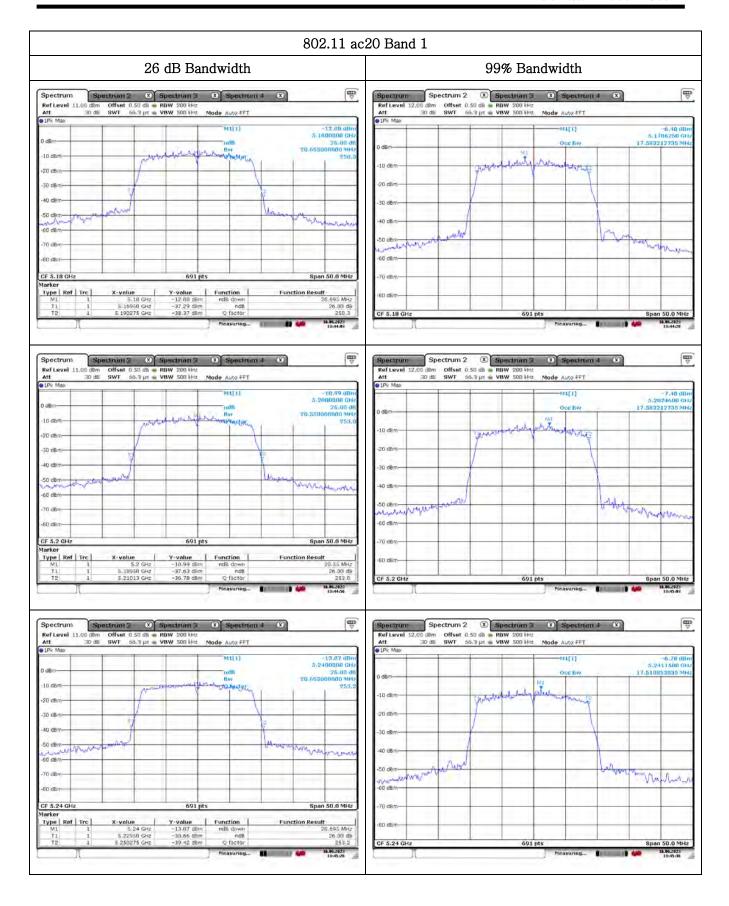
Figure 1: Measurement setup for the carrier frequency separation

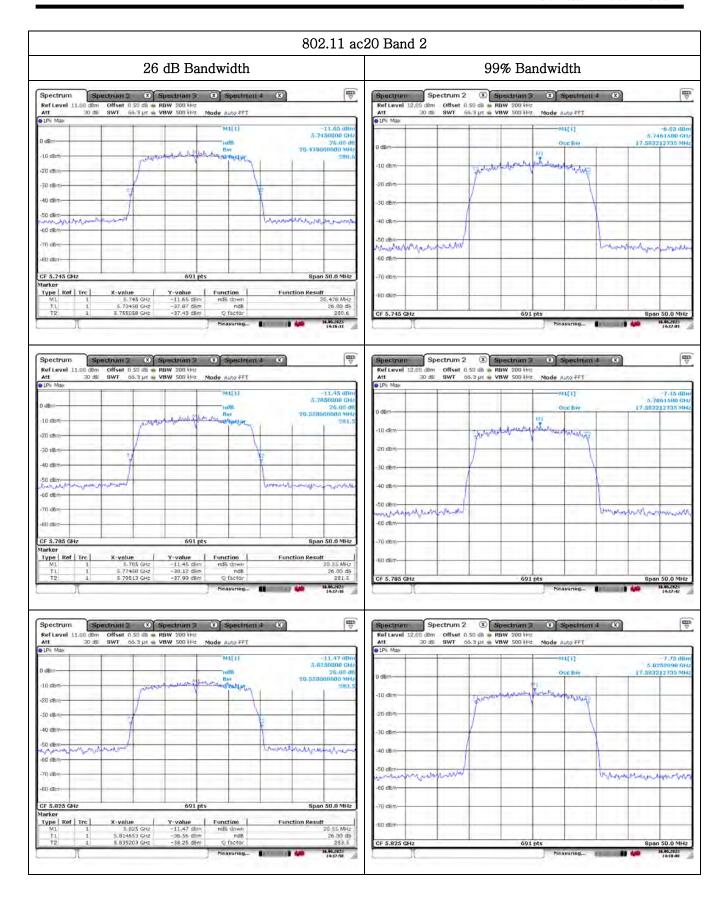


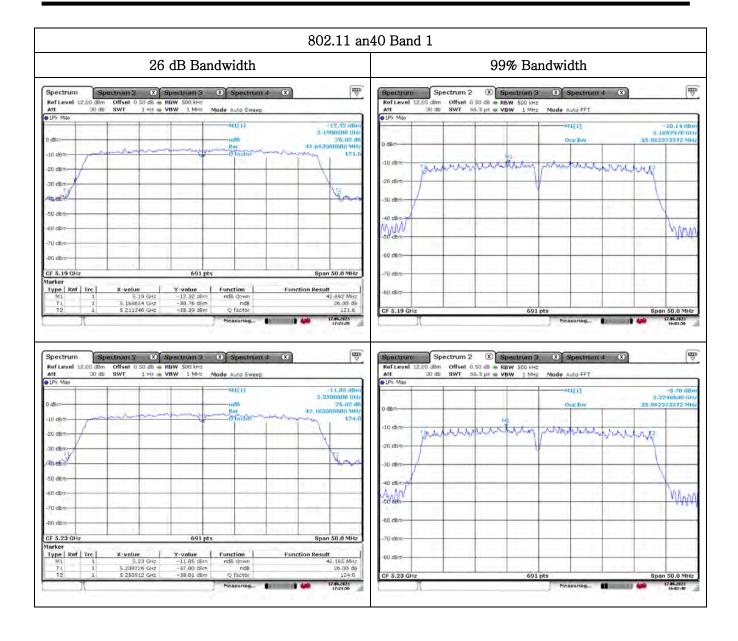


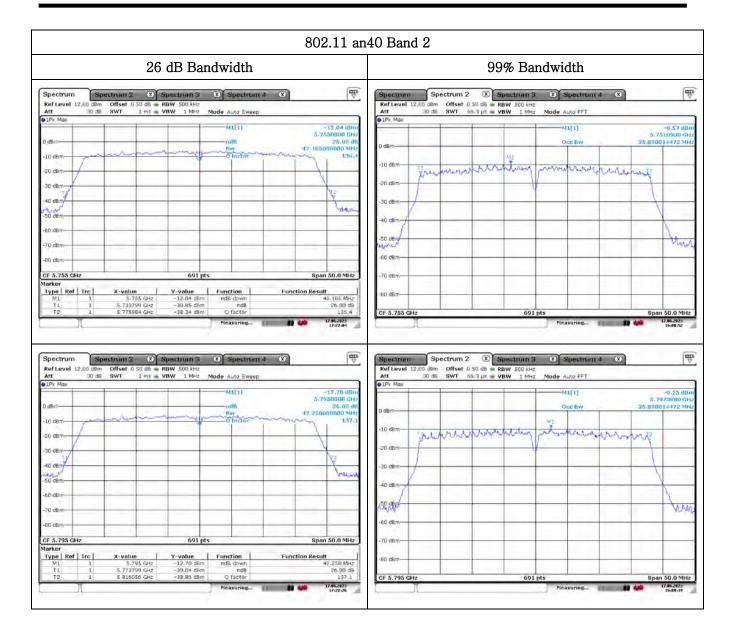


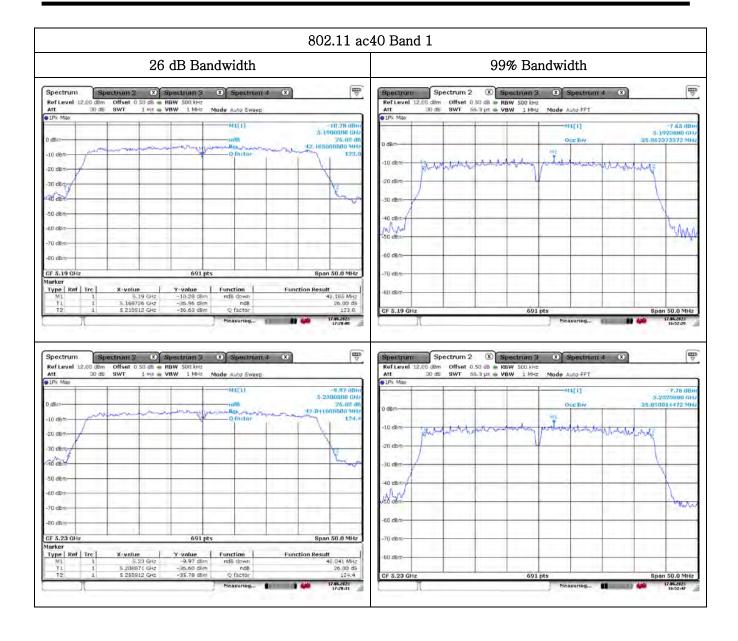


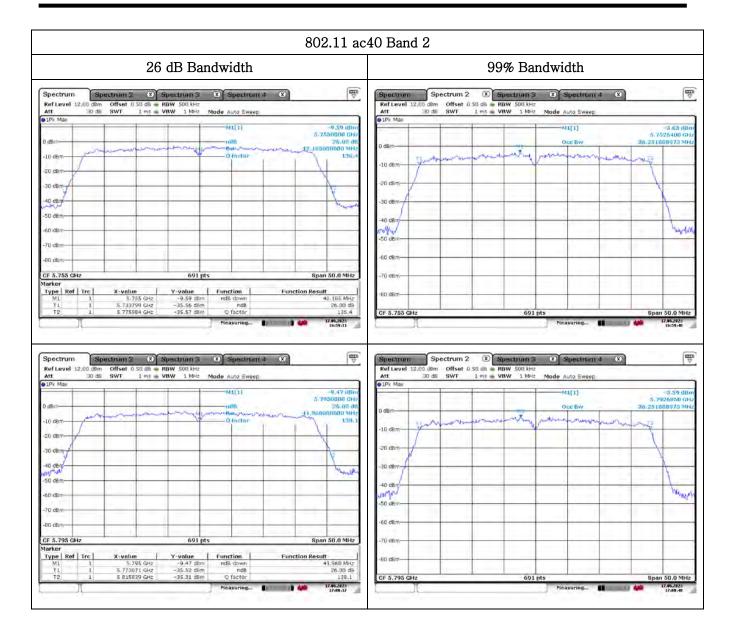


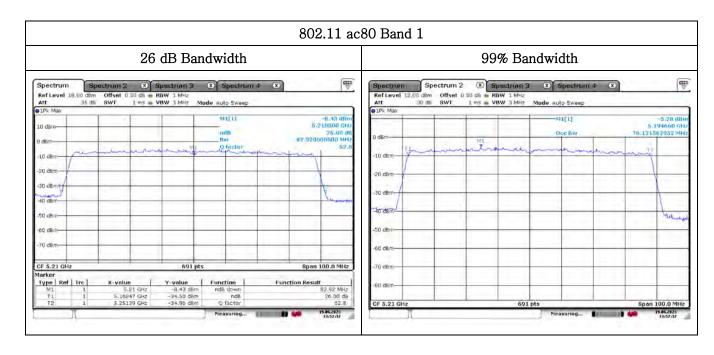


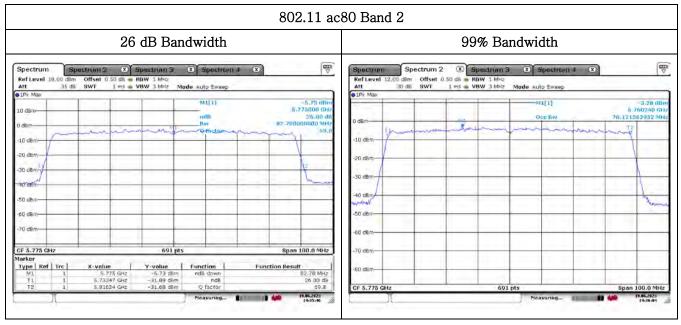












3.2.2 Peak Output Power Measurement

Procedure:

Maximum conducted output power may be measured using a spectrum analyzer/EMI receiver or an RF power meter

The spectrum analyzer is set to:

Center frequency = the highest, middle and the lowest channels

Set RBW = 1 MHz. Span \geq 3 X RBW

VBW = 3 X RBW Sweep = auto

Detector = AV

● Duty cycle

Mode	Frequency(MHz)	Duty Cycle	Duty Factor (dB)
	5200	1.00	0
a	5785	1.00	0
220	5200	1.00	0
an20	5785	1.00	0
2020	5200	1.00	0
ac20	5785	1.00	0
an40	5190	1.00	0
	5755	1.00	0
2040	5190	1.00	0
ac40	5755	1.00	0
2200	5210	1.00	0
ac80	5775	1.00	0

Mada	Frequency	Test Resul	lts
Mode	(MHz)	Measured data (dBm)	Result
	5180	6.16	
	5200	5.88	
	5240	5.57	Complies
а	5745	5.50	Compiles
	5785	5.04	
	5825	5.06	
	5180	1.69	
	5200	1.73	
an20	5240	1.41	Complies
	5745	2.55	
	5785	1.64	

_	5825	1.39	
	5180	0.44	
ac20	5200	0.06	
	5240	-0.08	Complies
	5745	-2.87	Complies
	5785	-3.17	
	5825	-3.27	

Mode	Frequency (MHz)	Test Results		
		Measured data (dBm)	Result	
	5190	-2.40		
an40	5230	-2.54	Camerii aa	
	5755	-2.26	Complies	
	5795	-2.41		
	5190	-0.59		
ac40	5230	-0.80	Commlian	
	5755	-0.49	Complies	
	5795	-0.47		

Mode	Frequency (MHz)	Test Results	
		Measured data (dBm)	Result
ac80	5210	-3.72	Complies
	5775	-3.39	Complies

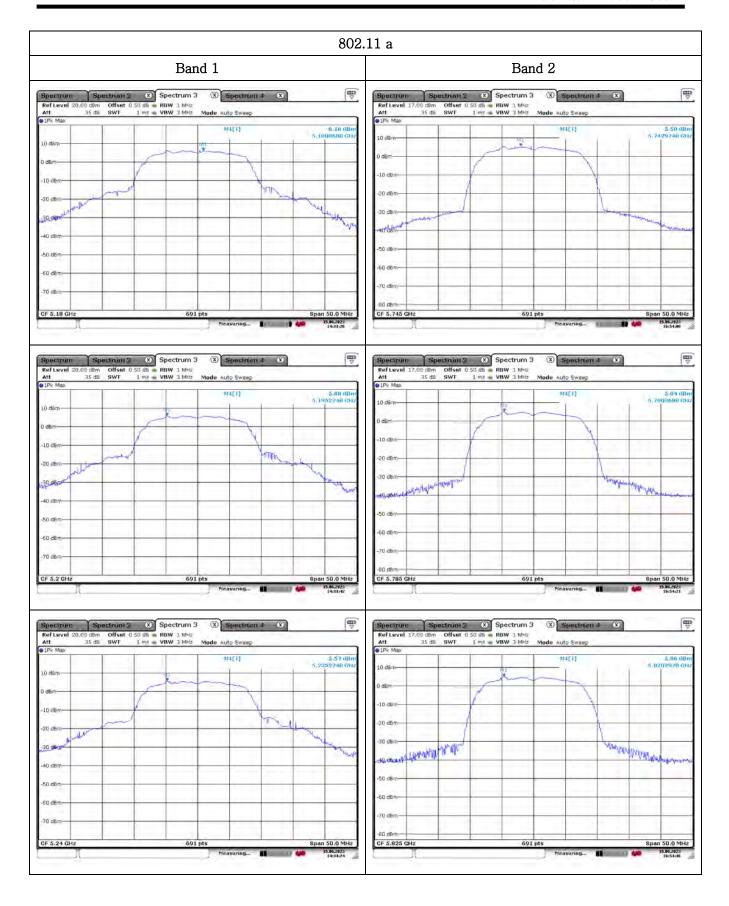
⁻ See next pages for actual measured spectrum plots.

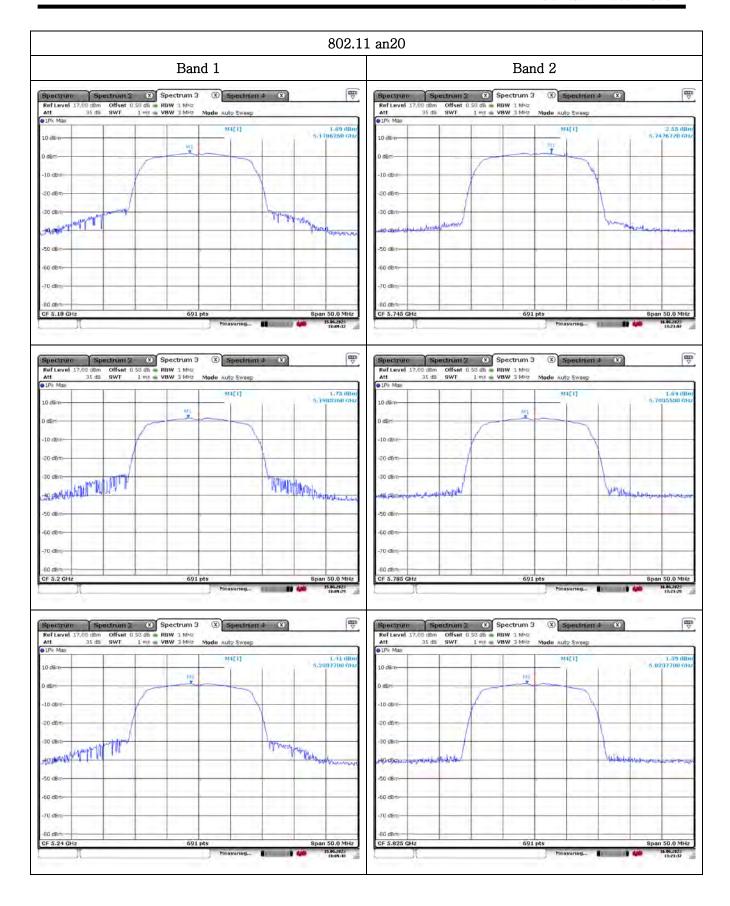
Minimum Standard:

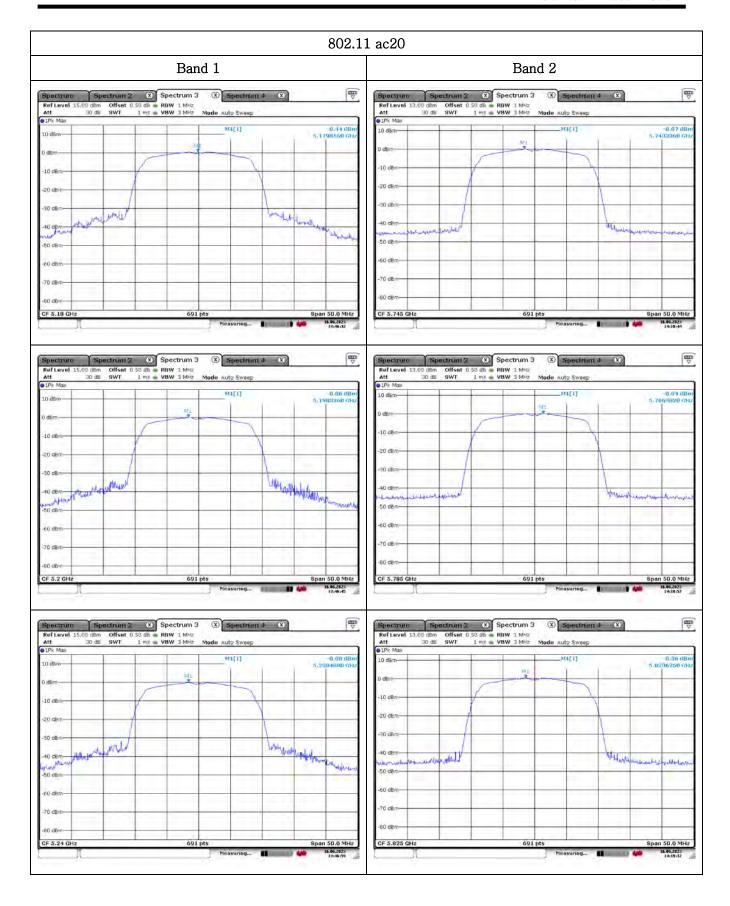
Peak output power	
5150~5250 MHz	Fixed: 30 dBm
	Mobile and portable : 24 dBm
5250~5350 MHz	24 dBm
5470~5725 MHz	24 dBm
5725~5850 MHz	30 dBm

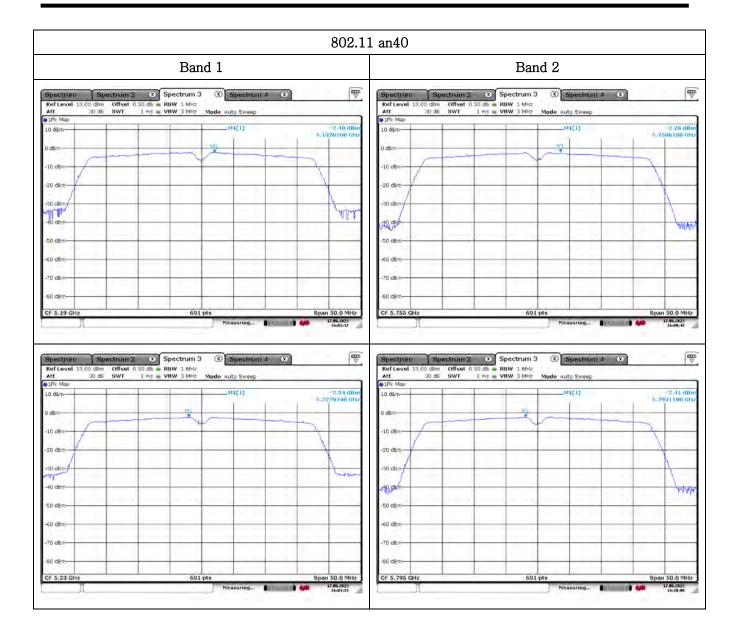
Measurement Setup

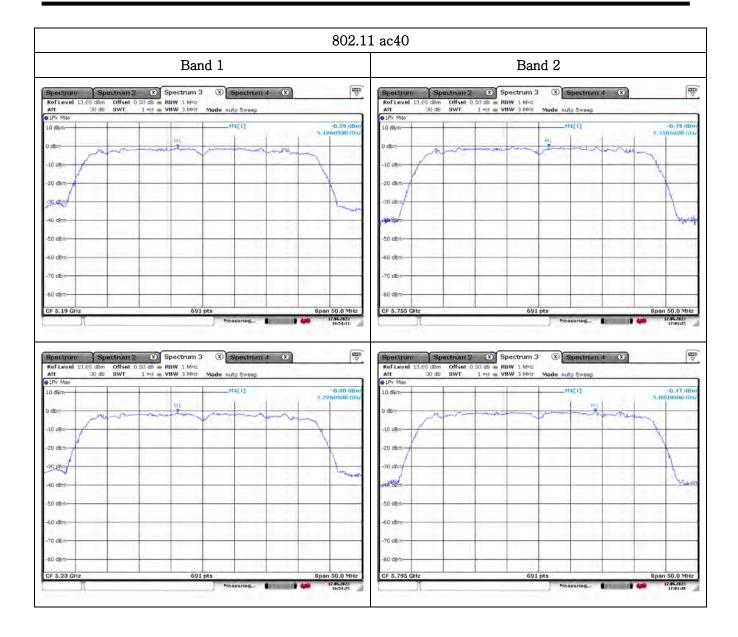
Same as the Chapter 3.2.1 (Figure 1)

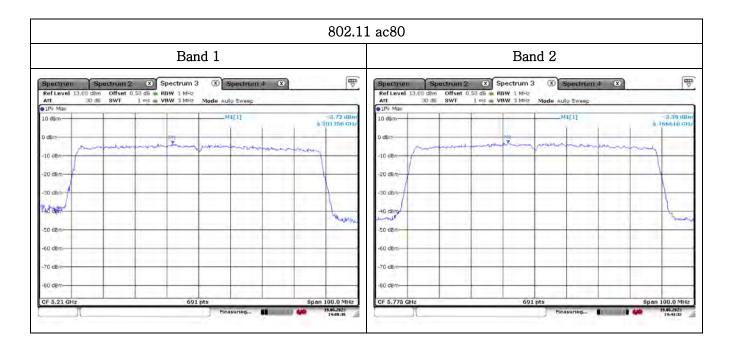












3.2.3 Peak power spectral density

Procedure:

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance.

The spectrum analyzer is set to:

Set RBW = 1 MHz

VBW = 3 X RBW Sweep = auto

Set detector = RMS Trace = max hold

Mode	Frequency (MHz)	Test Results	
		Measured data (dBm)	Result
	5180	-1.50	
	5200	-1.27	
	5240	-1.44	Comulias
a	5745	1.53	Complies
	5785	2.76	
	5825	2.29	
	5180	-1.35	Complies
	5200	-1.32	
an20	5240	-1.41	
an20	5745	-1.58	
	5785	-1.47	
	5825	-2.04	
	5180	-2.87	
	5200	-3.17	
~~20	5240	-3.27	Complian
ac20	5745	-3.43	Complies
	5785	-3.20	
	5825	-2.67	

Mode	Frequency (MHz)	Test Results	
		Measured data (dBm)	Result
	5190	-5.82	
an40	5230	-5.58	Complies
	5755	-5.78	
	5795	-5.82	
	5190	-3.58	
ac40	5230	-3.61	Complies
	5755	-3.20	Complies
	5795	-2.54	

Mode	Frequency (MHz)	Test Results	
		Measured data (dBm)	Result
ac80	5210	-7.38	Complies
	5775	-5.76	Complies

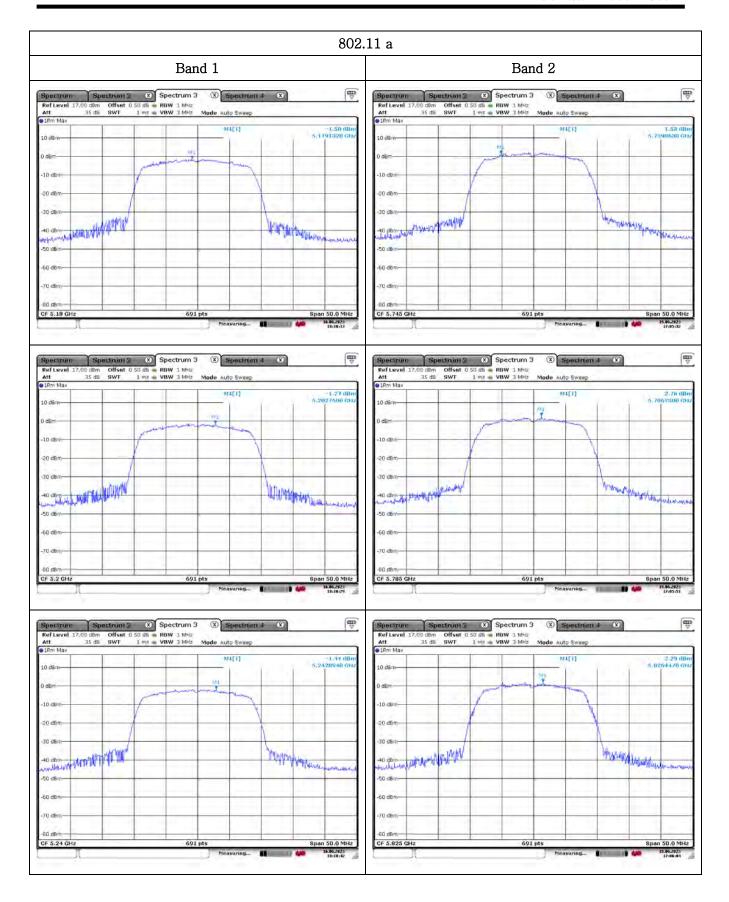
- See next pages for actual measured spectrum plots.

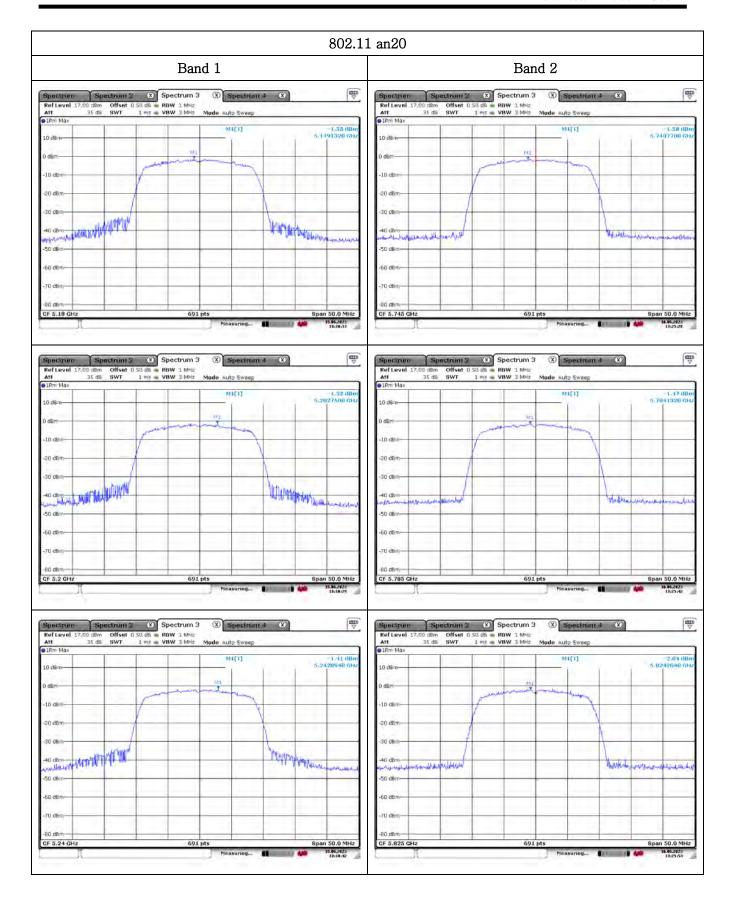
Minimum Standard:

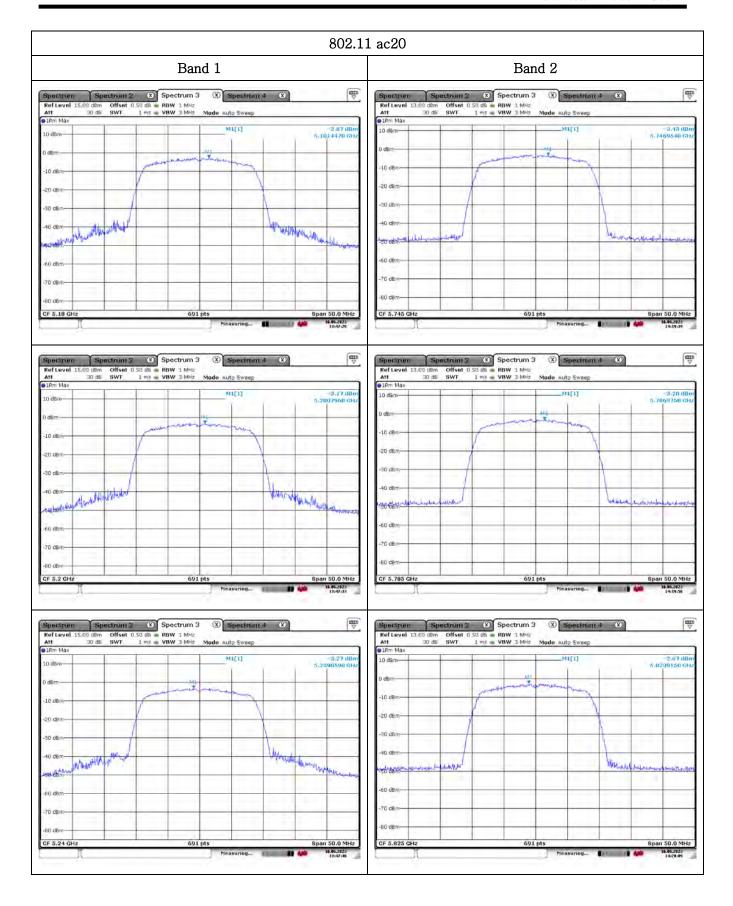
Power Density	shall not exceed the lesser of 1 W or 17 dBm/MHz + 10 log B

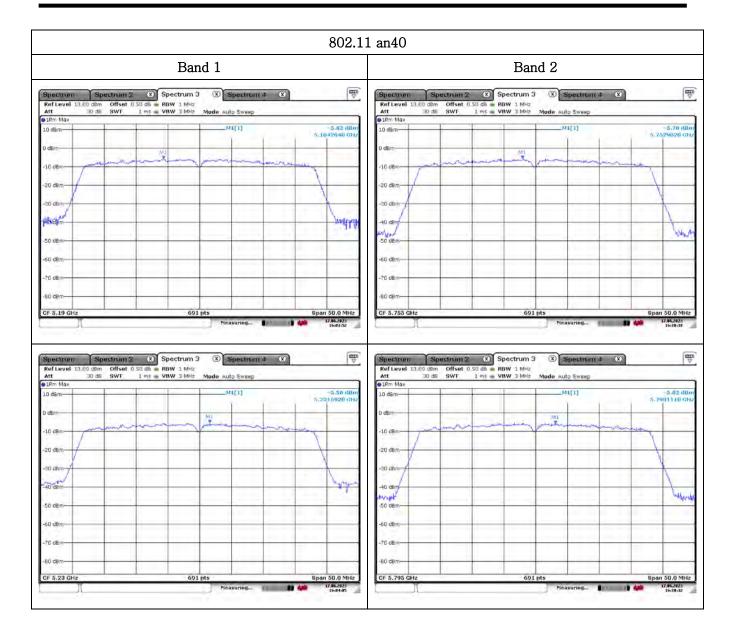
Measurement Setup

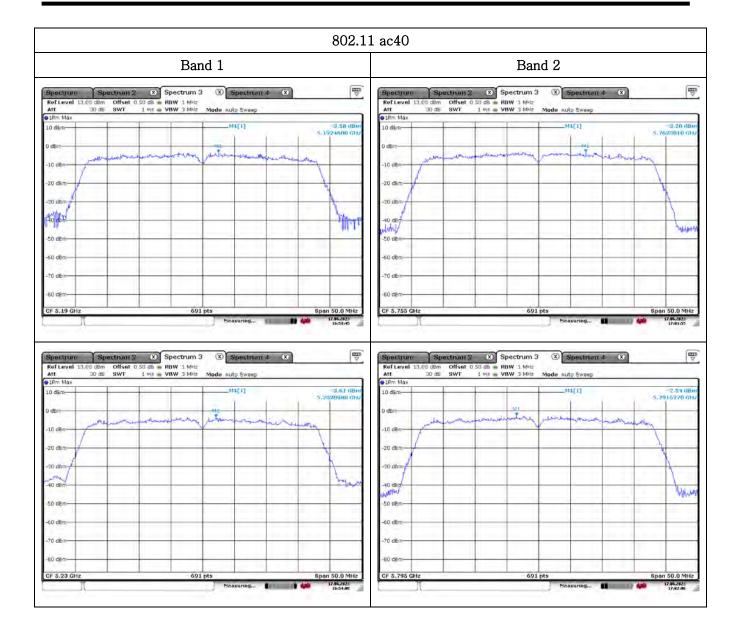
Same as the Chapter 3.2.1 (Figure 1)

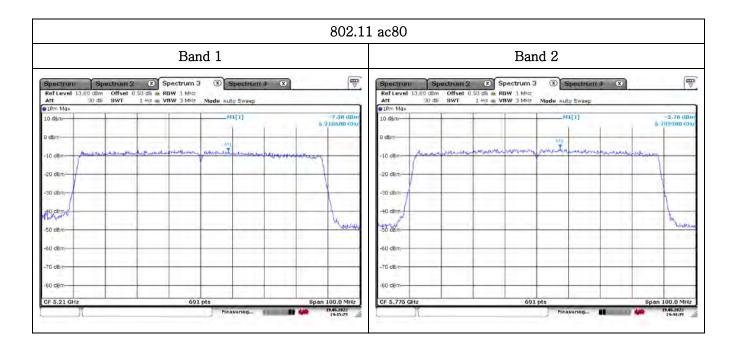












3.2.4 6 dB Bandwidth

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 X RBW

VBW = 3 X RBW Sweep = auto

Trace = max hold Detector function = peak

Mode	Frequency	Test Results	
	(MHz)	Measured data (MHz)	Result
	5180	16.787	
	5200	16.787	
	5240	16.787	Carrenti an
a	5745	16.643	Complies
	5785	16.715	
	5825	16.787	
	5180	18.017	
	5200	18.017	Complies
an20	5240	18.017	
anzu	5745	17.945	
	5785	17.945	
	5825	18.017	
	5180	18.017	
	5200	18.017	Complies
•	5240	18.017	
ac20	5745	17.945	
	5785	18.017	
	5825	17.945	

Mode	Frequency (MHz)	Test Results	
		Measured data (MHz)	Result
	5190	37.699	
an40	5230	37.771	Committee
	5755	37.771	Complies
	5795	38.205	
	5190	37.699	
ac40	5230	37.916	Committee
	5755	37.699	Complies
	5795	37.844	

Mode	Frequency (MHz)	Test Results	
		Measured data (MHz)	Result
ac80	5210	78.000	Complies
	5775	77.570	Complies

- See next pages for actual measured spectrum plots.

Minimum Standard:

 $6 \text{ dB Bandwidth} \geq 500 \text{ kHz}$

Measurement Setup

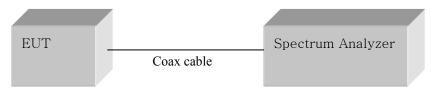
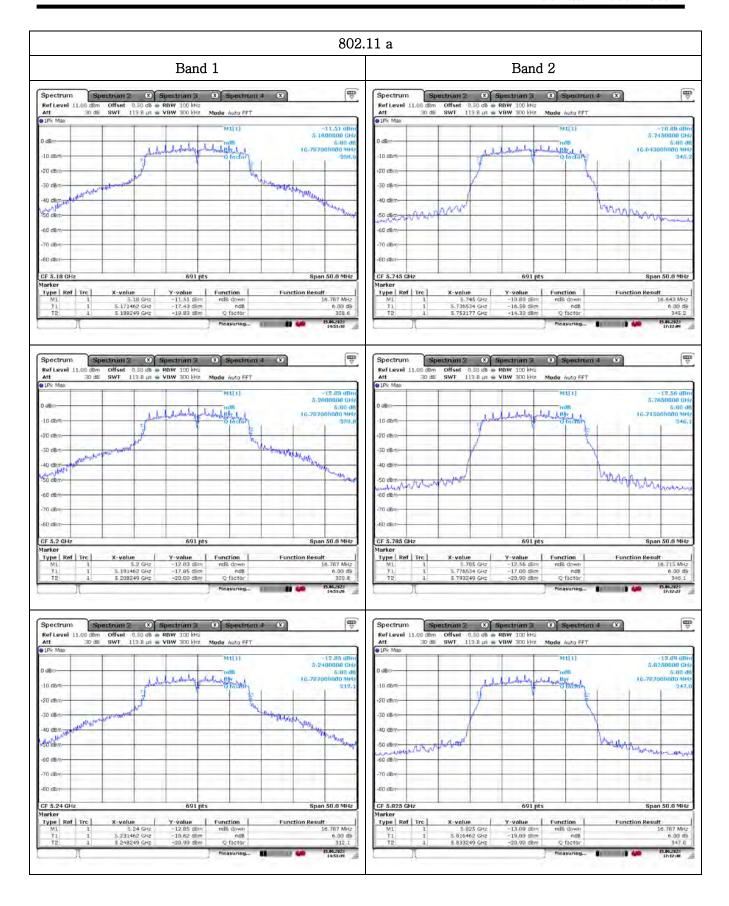
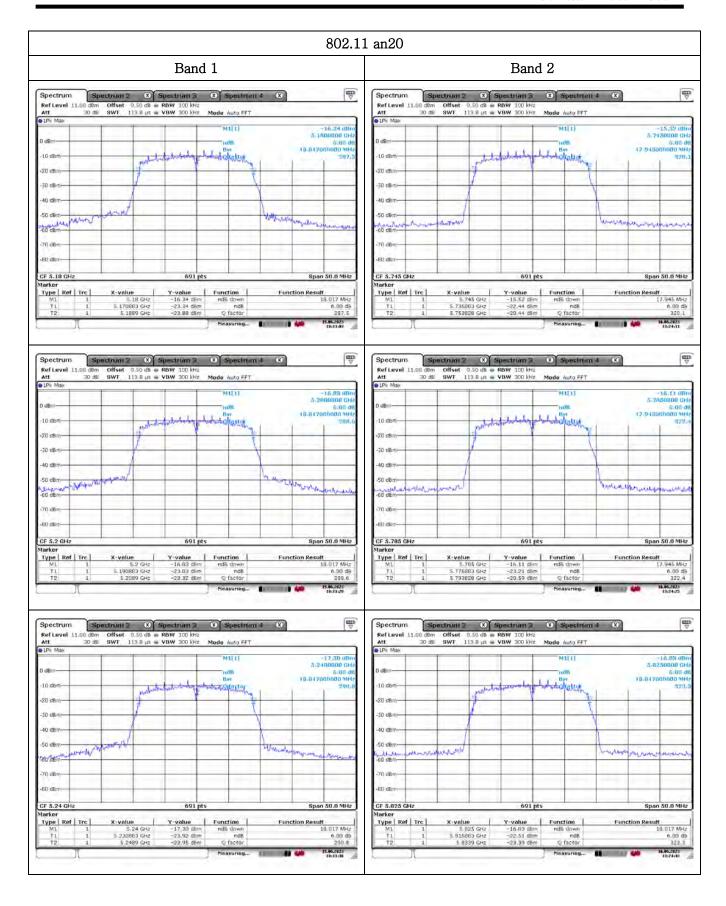
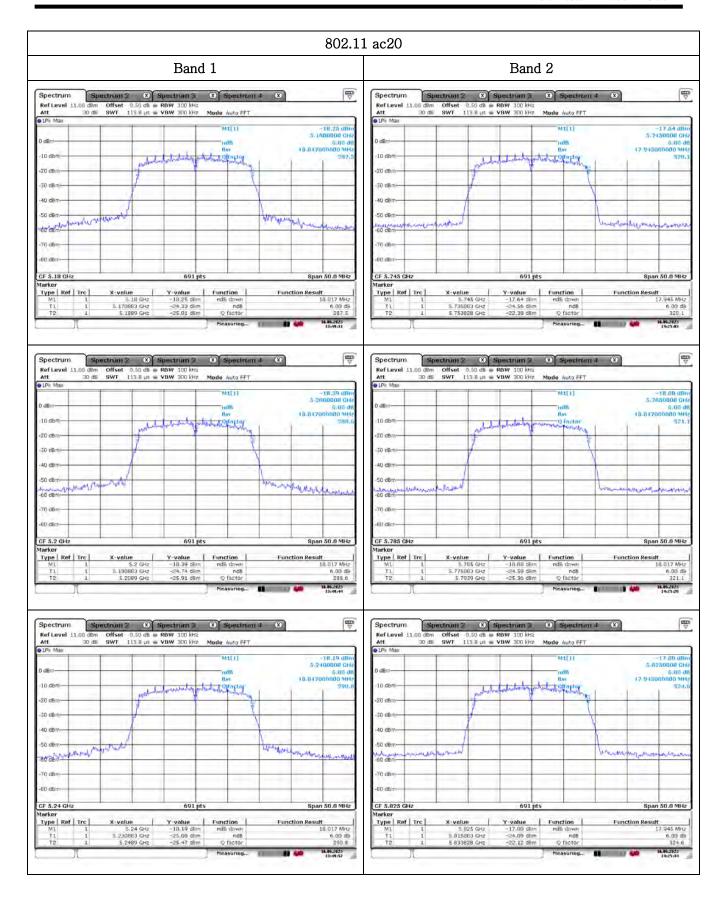
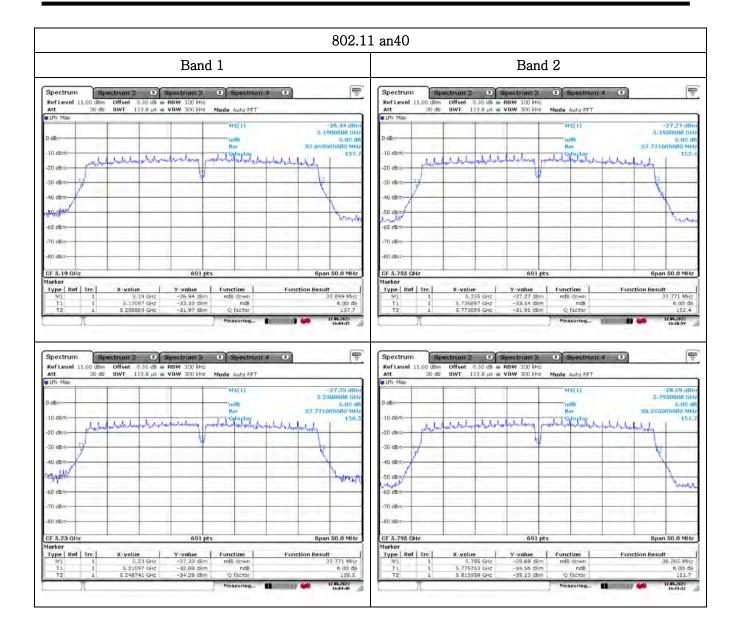


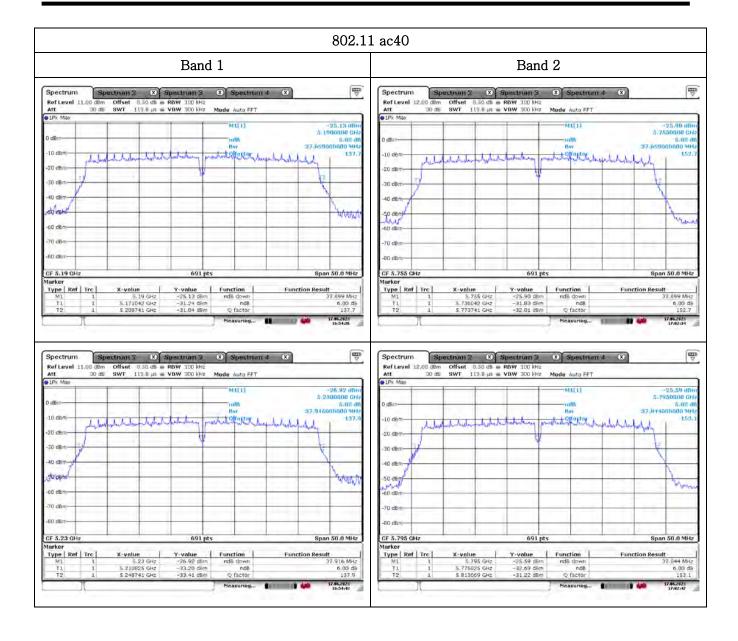
Figure 1: Measurement setup for the carrier frequency separation

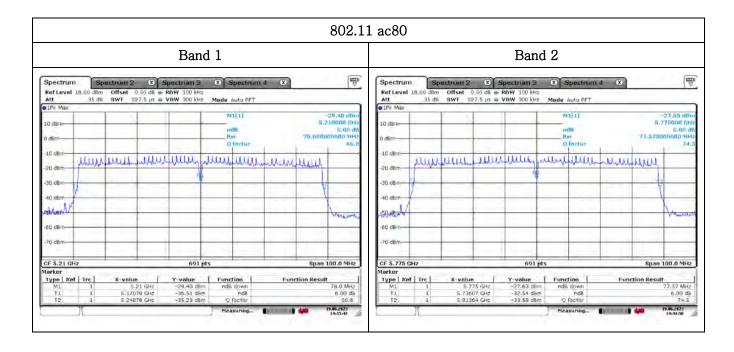












3.2.5 Band Edge

Procedure:

For transmitters operating in band: all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an EIRP of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an EIRP of -27 dBm/MHz.

The spectrum analyzer is set to:

Center frequency = the highest, middle and the lowest channels

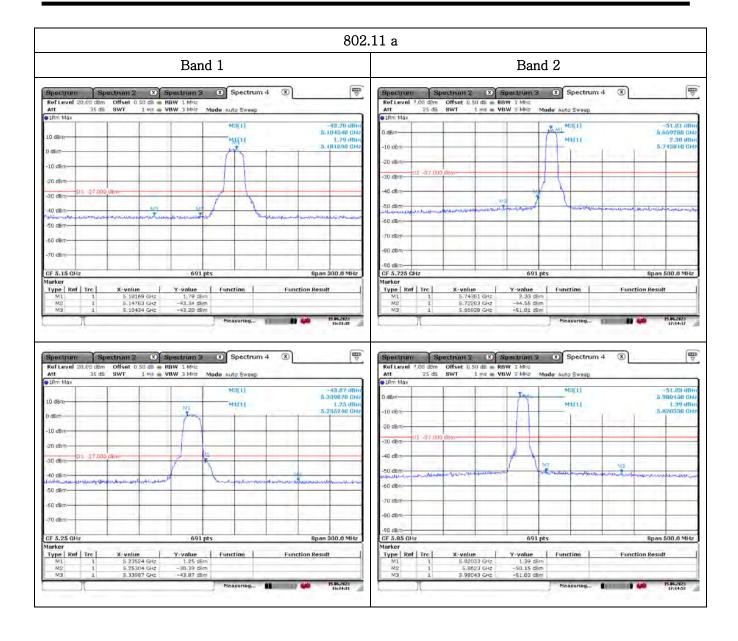
 $RBW = 1 \text{ MHz} \qquad \qquad VBW \ge 3 \text{ X RBW}$ $Detector = RMS \qquad \qquad Trace = max \text{ hold}$

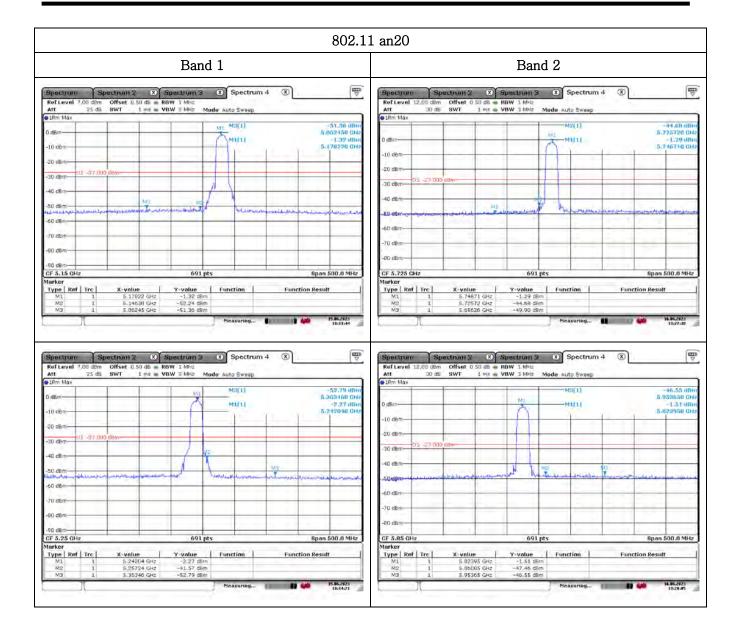
Sweep = auto

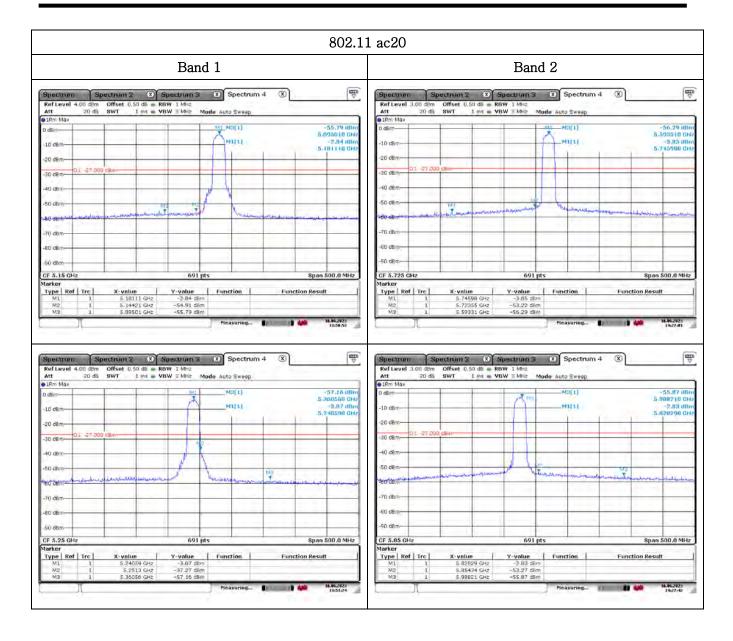
Measurement Data: Complies

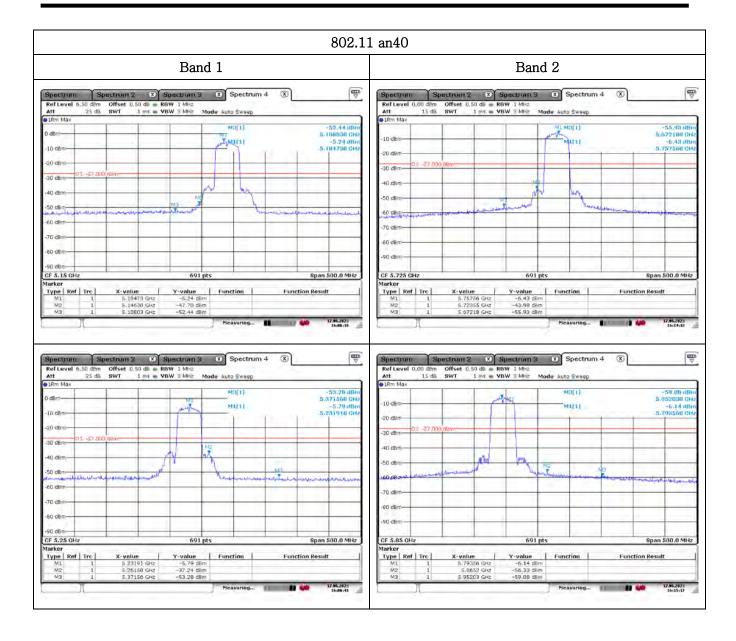
- See next pages for actual measured spectrum plots.

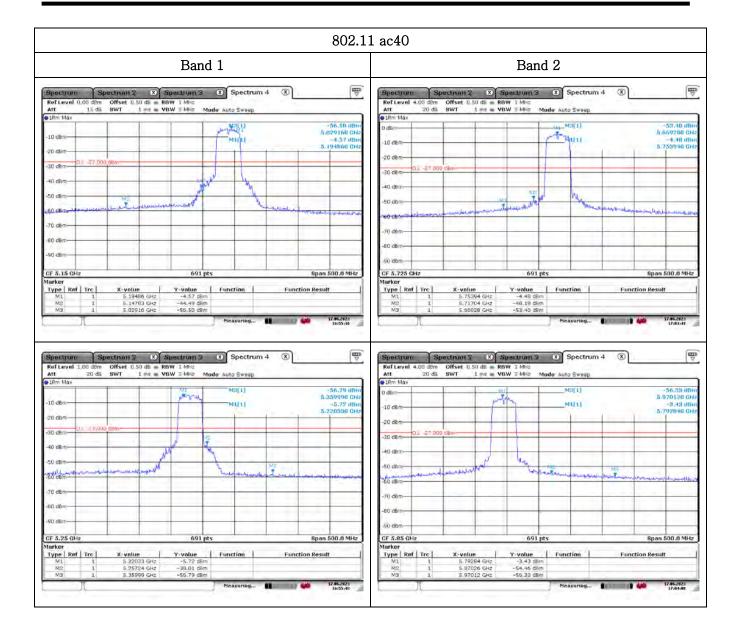
Minimum Standard:	$\leq -17 \text{ dBm/MHz}$

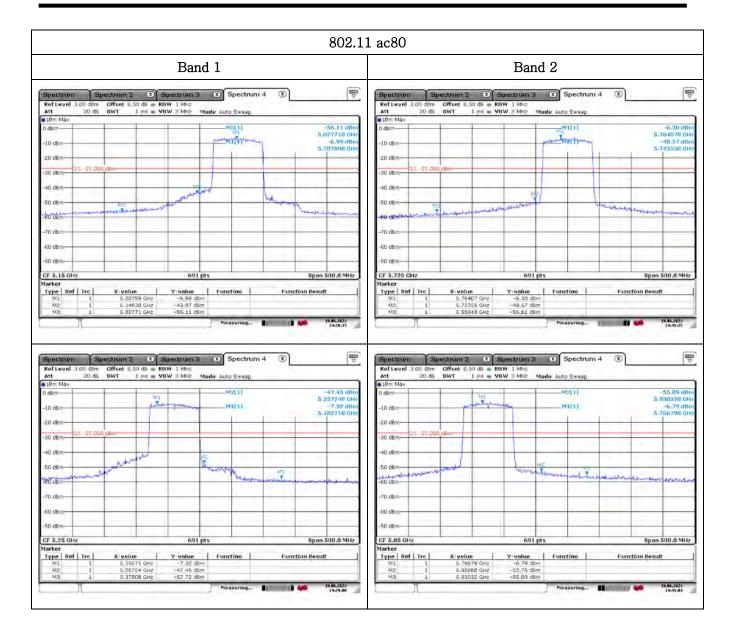












3.2.6 Conducted Spurious Emissions

Procedure:

The test follows KDB789033. 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 27 dB lower than the highest inband spectral density. Therefore the applying equipment meets the require ment.
- See next pages for actual measured spectrum plots.

	Frequency (MHz)	Test Res	ults
Mode		Measured data (dBc)	Result
a	5180	50.71	
	5200	54.32	
	5240	51.01	Complies
	5745	52.30	
	5785	49.29	
	5825	49.79	
an20	5180	40.79	
	5200	40.40	
	5240	39.95	Commlian
	5745	47.96	Complies
	5785	50.50	
	5825	48.01	
ac20	5180	47.40	
	5200	47.29	Complies
	5240	48.18	

5745	47.29
5785	50.31
 5825	47.58

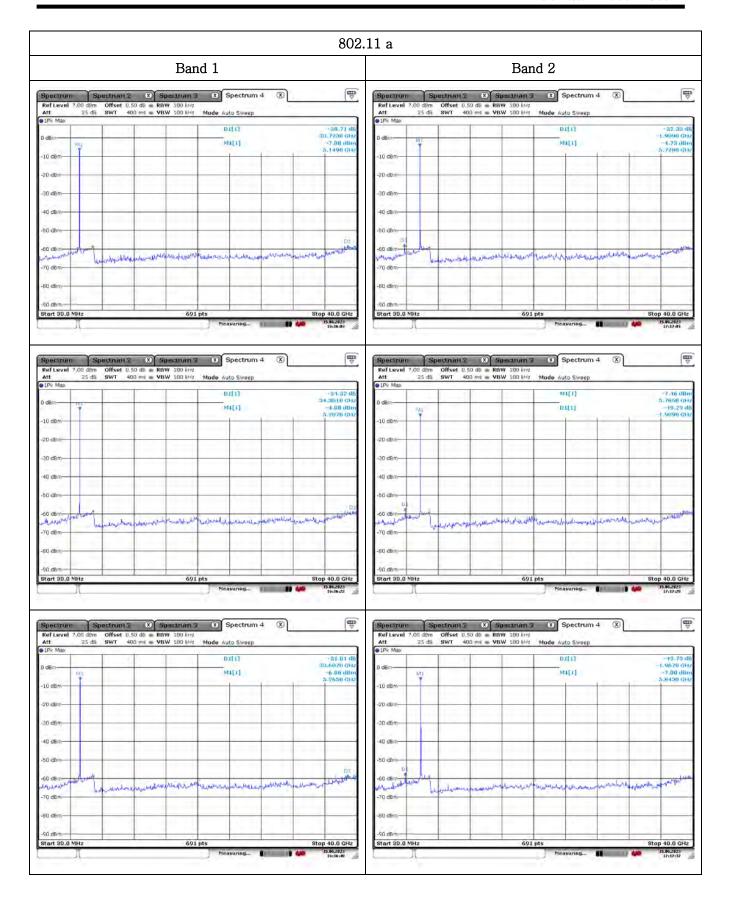
Mode Frequency (MHz)	Frequency	Test Results	
		Measured data (dBc)	Result
an40	5190	58.21	
	5230	56.71	Complies
	5755	47.68	
	5795	48.17	
ac40	5190	50.54	
	5230	46.02	Commliae
	5755	48.12	Complies
	5795	48.58	

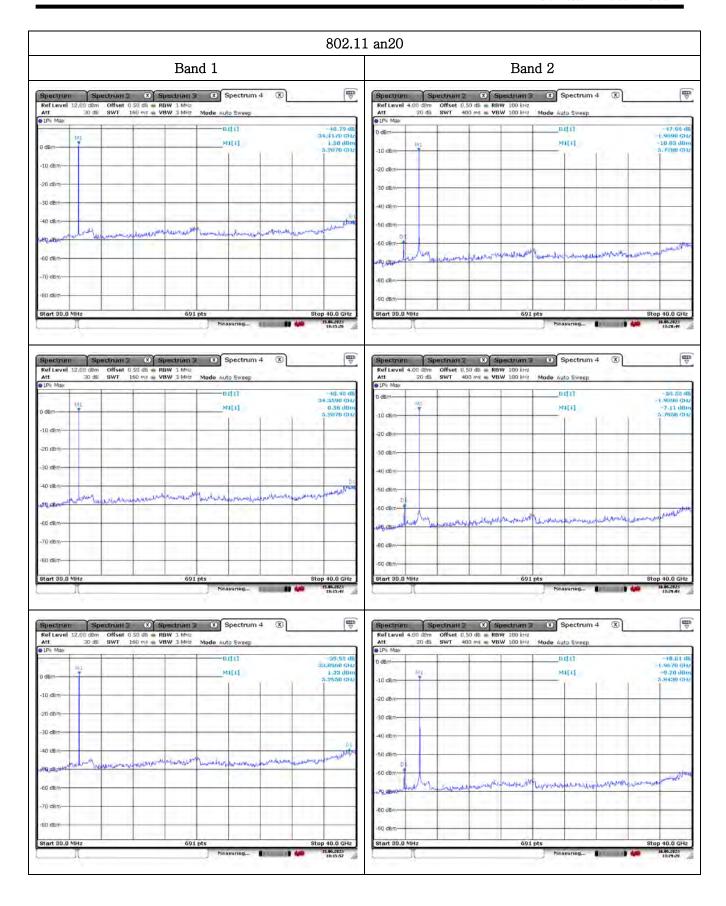
Mode	Frequency (MHz)	Test Results	
		Measured data (dBc)	Result
ac80	5210	48.78	Commline
	5775	46.38	Complies

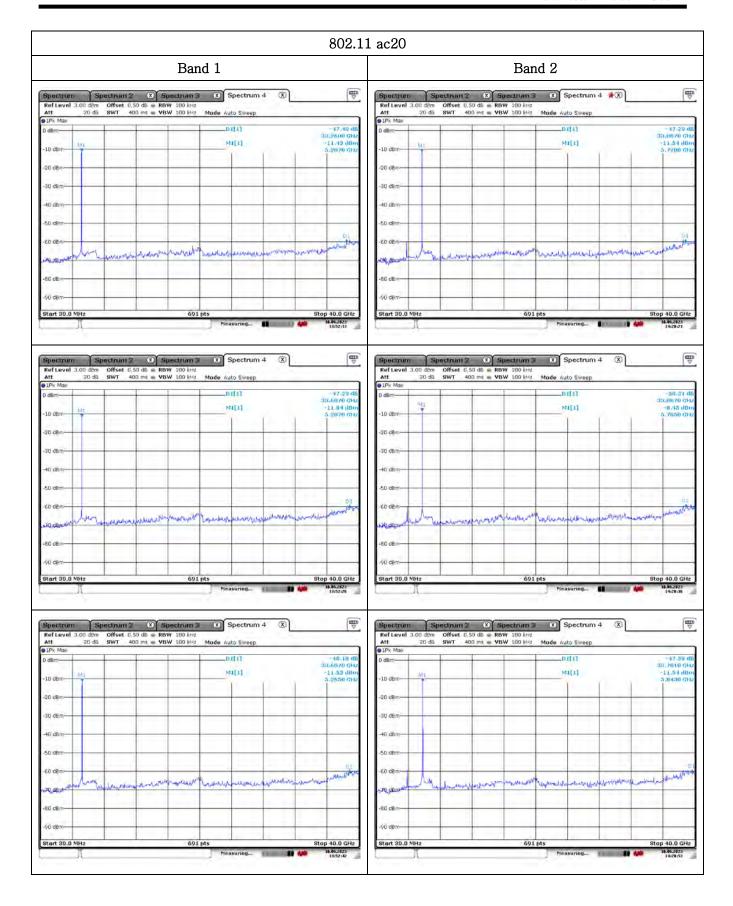
Minimum Standard:	≥ 27 dBc

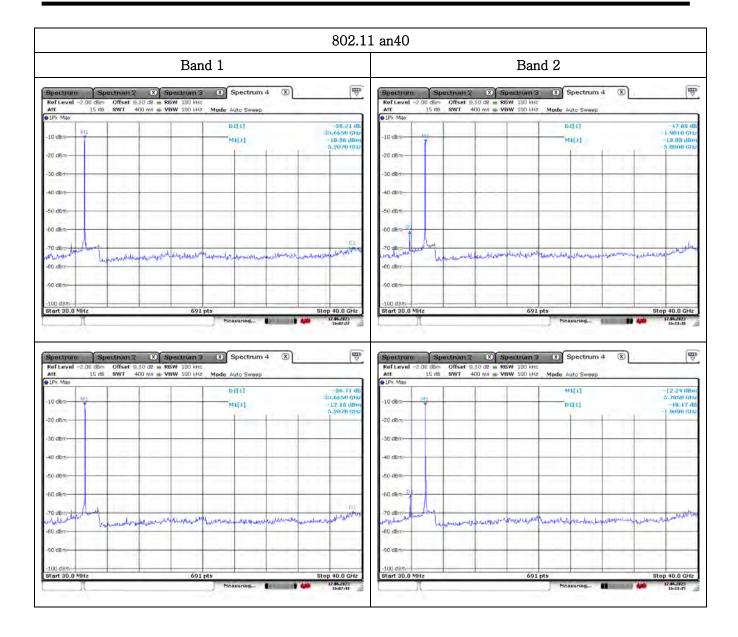
Measurement Setup

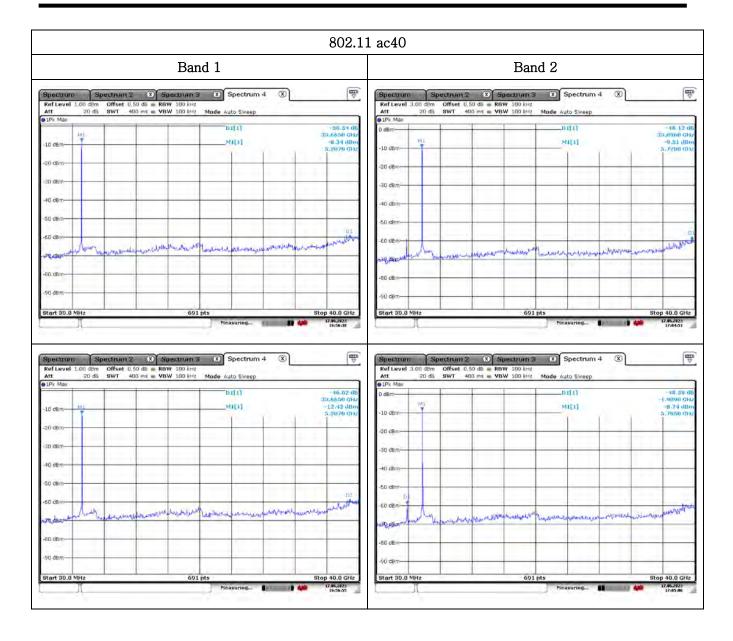
Same as the Chapter 3.2.1 (Figure 1)

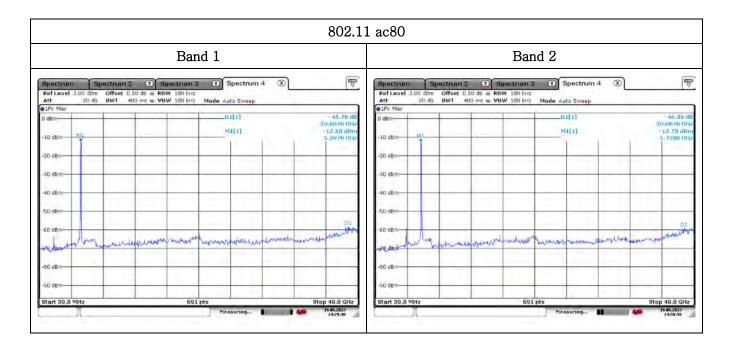












3.2.7 Radiated Spurious Emissions

Procedure:

Radiated emissions from 30 MHz to 25 GHz were measured according to the methods defines in ANSI C63.10-2013.

The EUT is a placed on as turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while

keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

The spectrum analyzer is set to:

Center frequency = the worst channel

Frequency Range = 9 kHz $\sim 10^{th}$ harmonic.

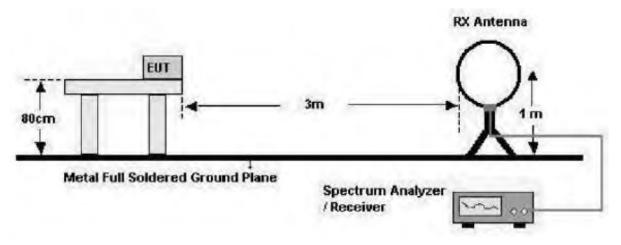
 $RBW = 120 \text{ kHz} (30 \text{ MHz} \sim 1 \text{ GHz})$ $VBW \geq RBW$

= 1 MHz (1 GHz $\sim 10^{th}$ harmonic)

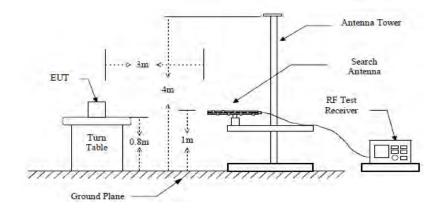
Trace = max hold Detector function = peak

Sweep = auto

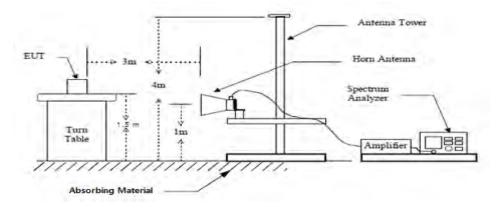
below 30 MHz



below 1 GHz (30 MHz to 1 GHz)



above 1 GHz



Measurement Data: Complies

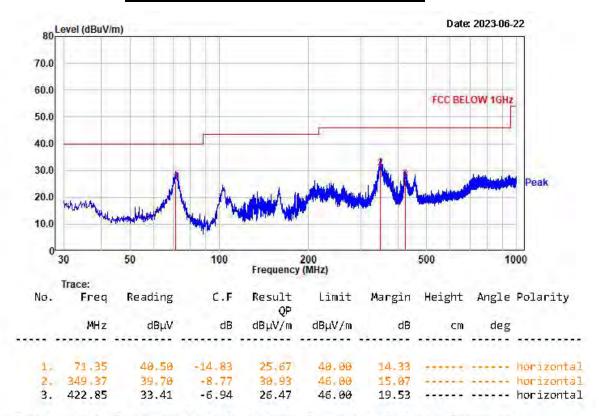
- See next pages for actual measured data.
- No other emissions were detected at a level greater than 20 dB below limit include from 9 kHz to 30MHz.
- The test results for the worst of the various operating modes are presented in accordance with 6.3.4 of ANSI C63.10.
- Checked with a red circle is the fundamental frequency.

Minimum Standard: FCC Part 15.209(a)

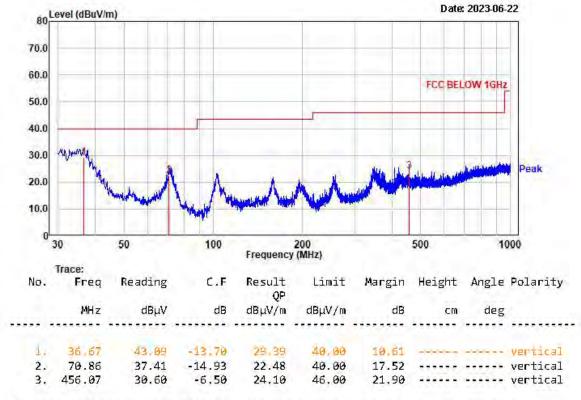
Frequency (MHz)	Limit (uV/m) @ 3 m
0.009 ~ 0.490	2400/F(kHz) (@ 300 m)
0.490 ~ 1.705	24000/F(kHz) (@ 30 m)
1.705 ~ 30	30(@ 30 m)
30 ~ 88	100 **
88 ~ 216	150 **
216 ~ 960	200 **
Above 960	500

^{**} 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.

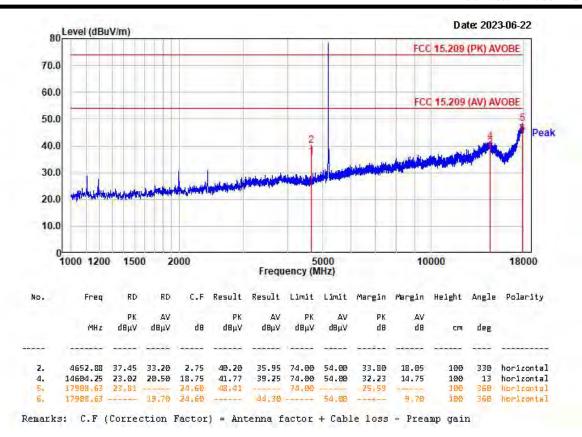
Radiated Emissions - 802.11 a mode Band 1

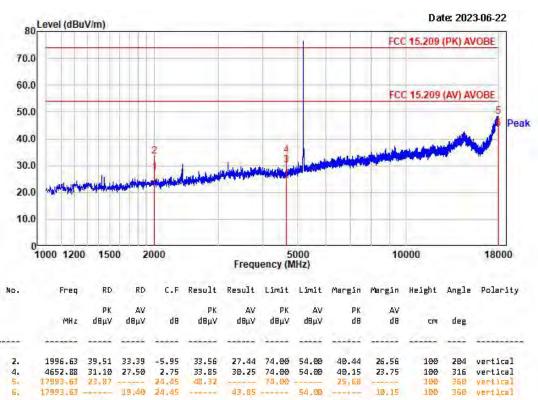


Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain



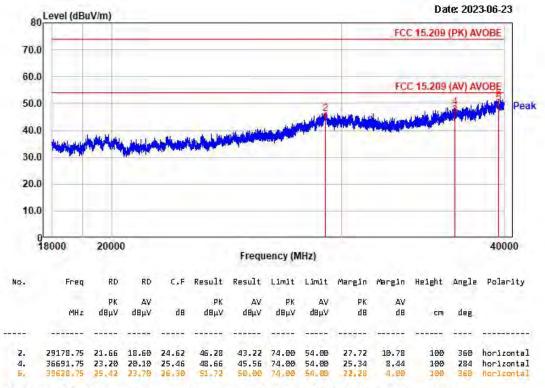
Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain



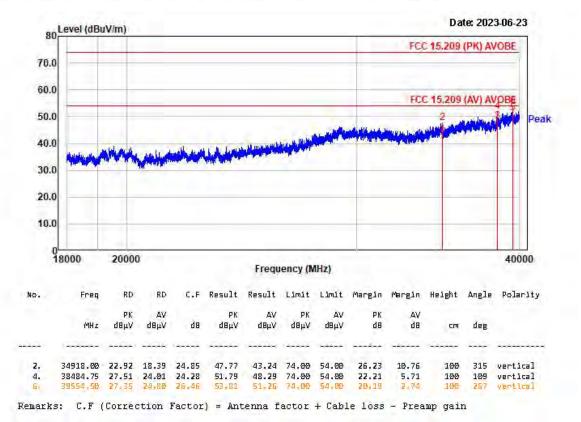


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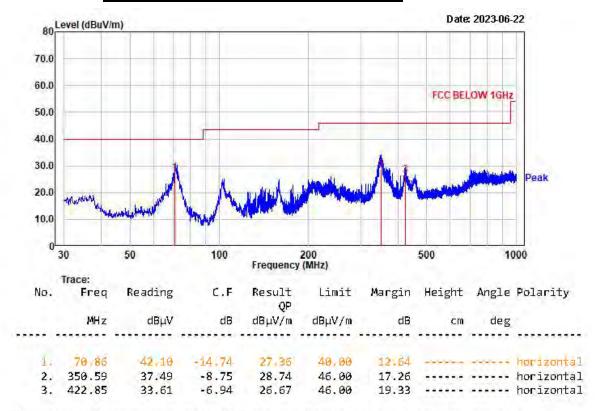
Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain



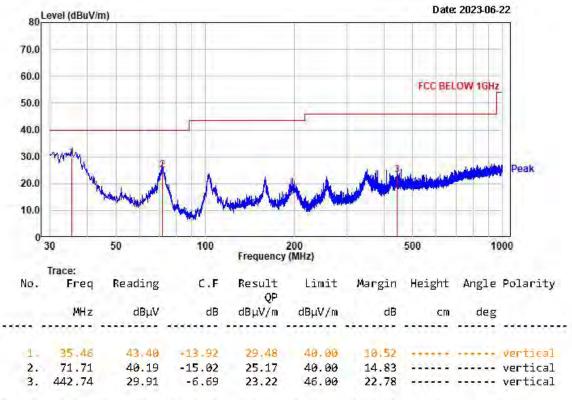
Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain



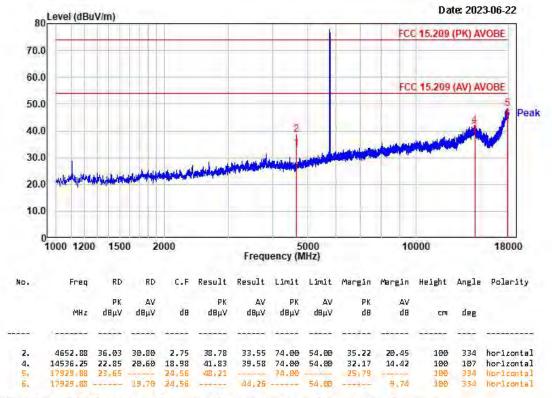
Radiated Emissions – 802.11 a mode Band 2



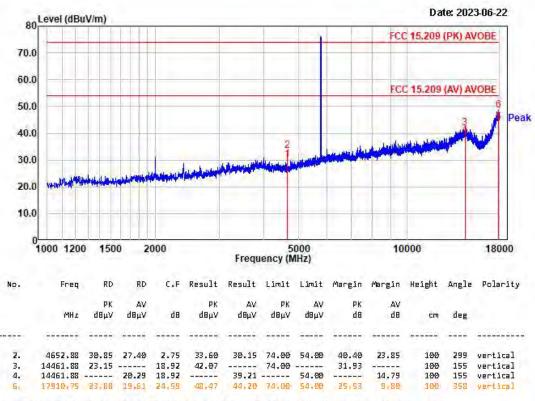
Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain



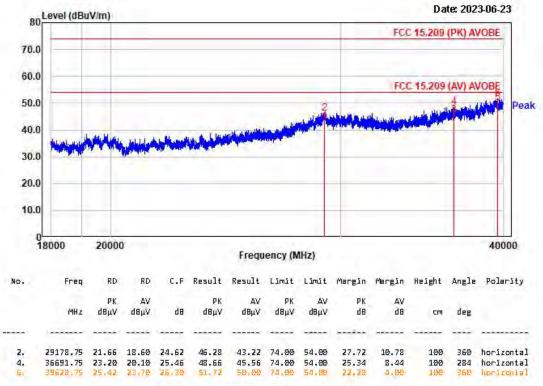
Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain



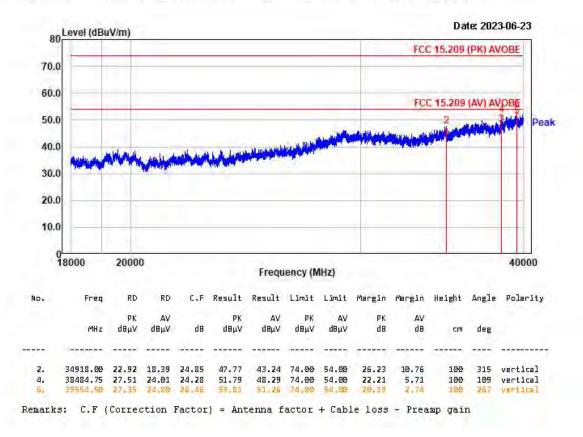
Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain



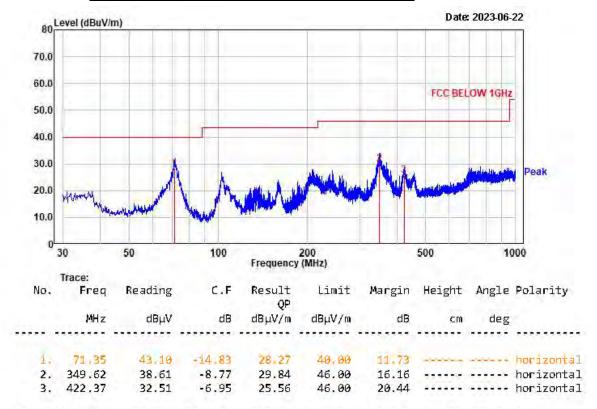
Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain



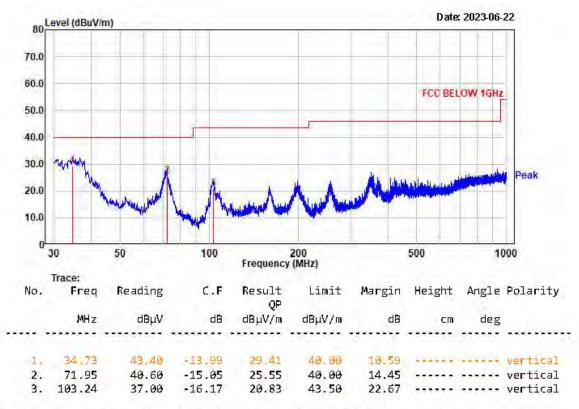
Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain



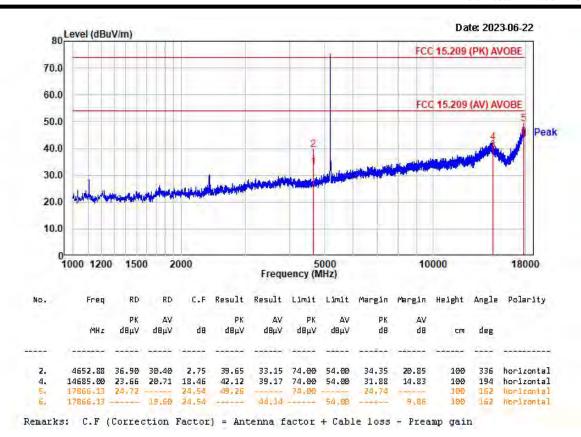
Radiated Emissions - 802.11 an20 mode Band 1

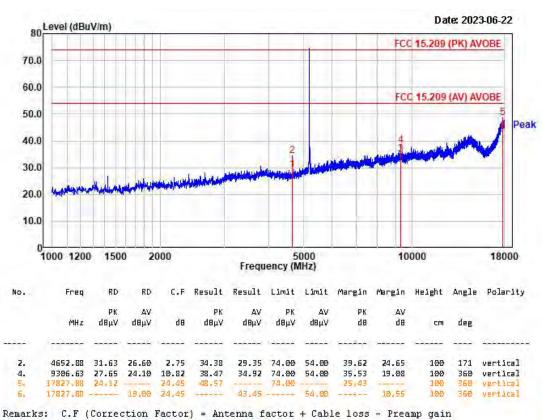


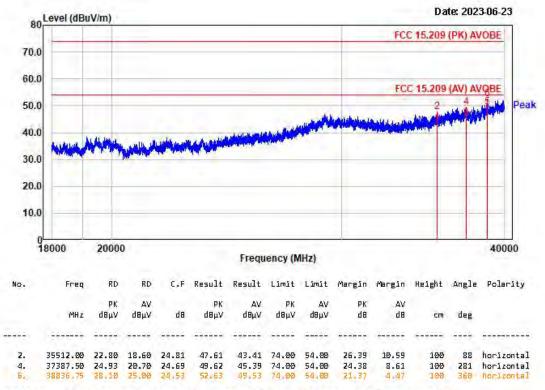
Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain



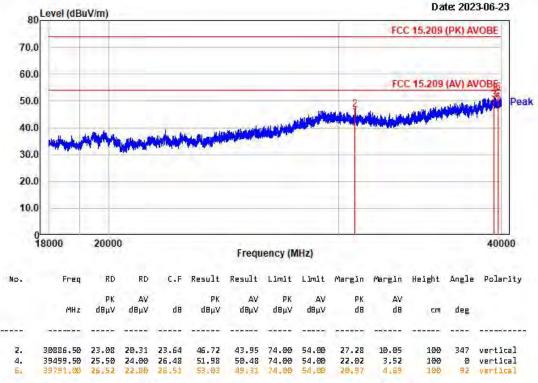
Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain





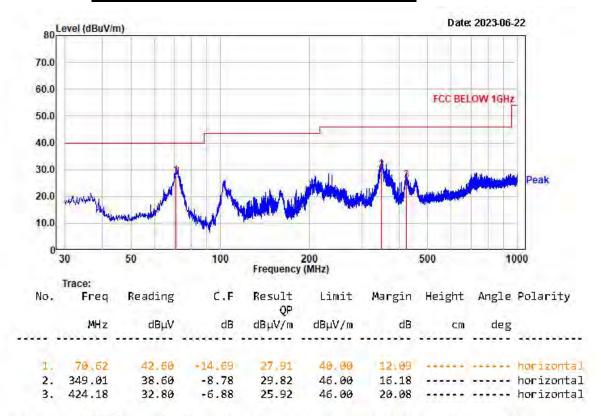


Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain

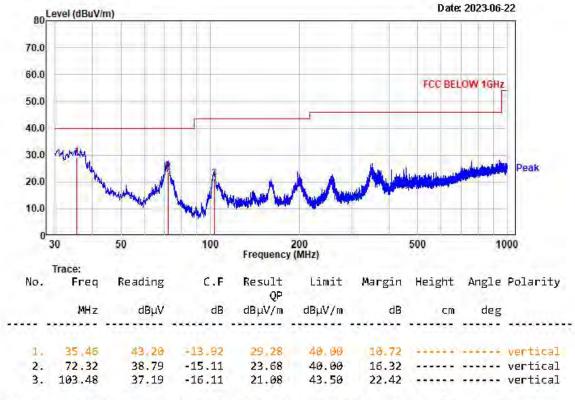


Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain

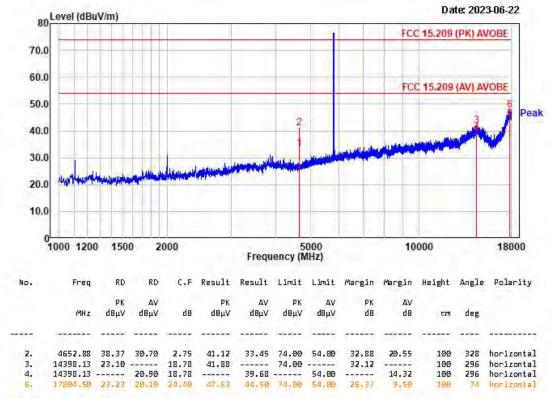
Radiated Emissions - 802.11 an20 mode Band 2



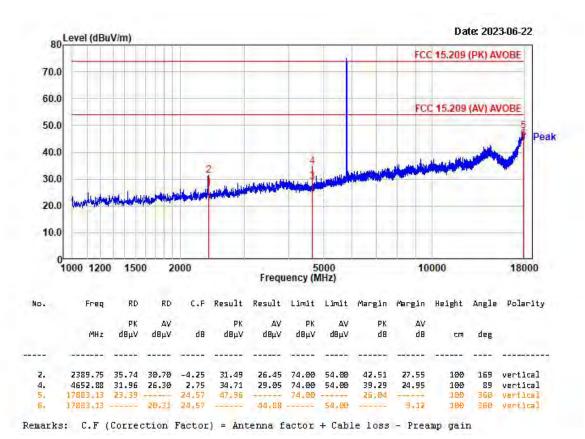
Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain



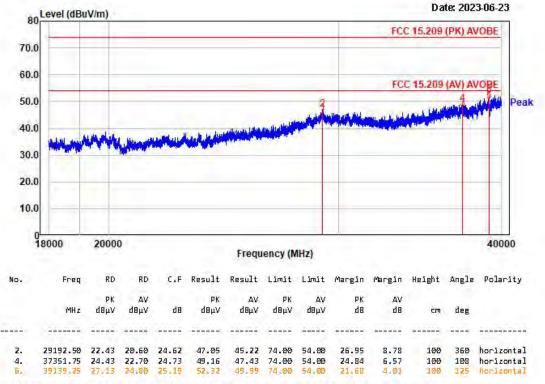
Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain



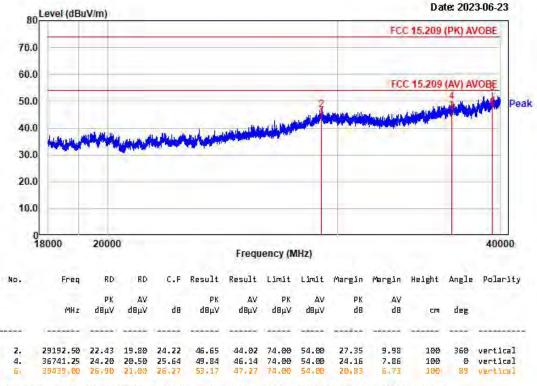
Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain



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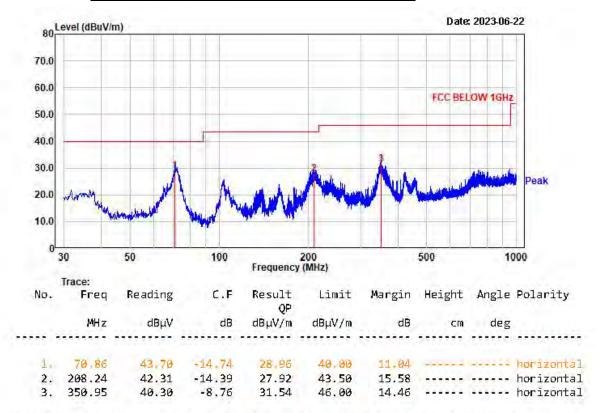


Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain

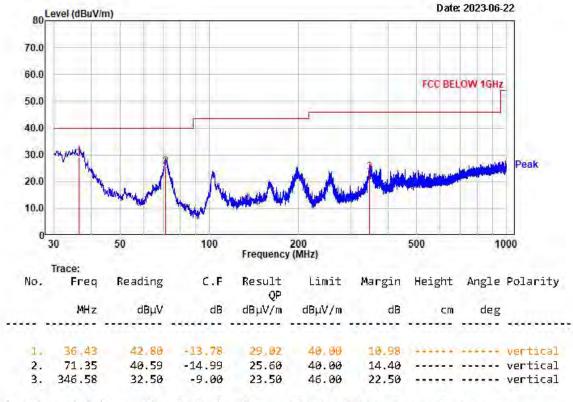


Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain

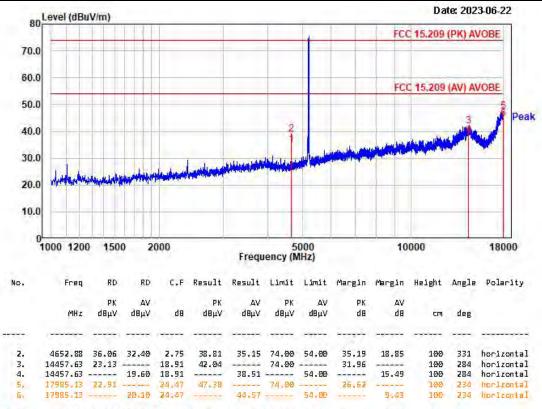
Radiated Emissions - 802.11 an40 mode Band 1



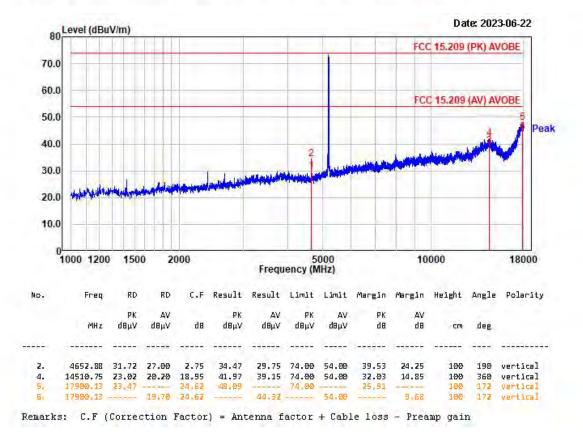
Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain



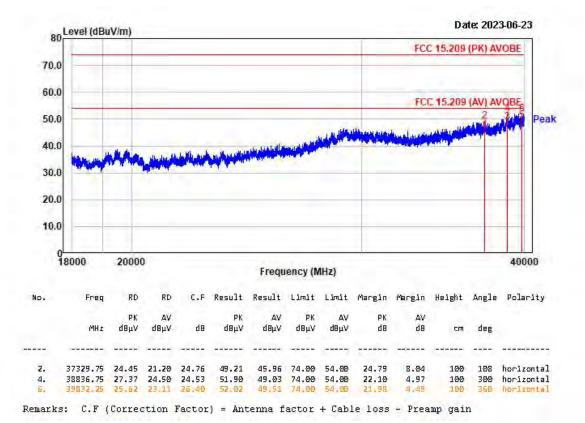
Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain



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



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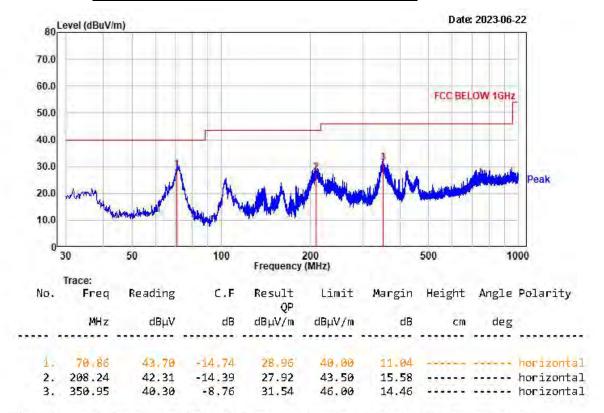


Date: 2023-06-23 80 Level (dBuV/m) FCC 15.209 (PK) AVOBE 70.0 60.0 FCC 15,209 (AV) AVOBE 50.0 Peak 40.0 30.0 20.0 10.0 18000 20000 40000 Frequency (MHz) C.F Result Result Limit Limit Margin Margin Height Angle Polarity No. RD RD PK AV AV AV dB_µV $dB\mu V$ dBµV dBμV $dB\mu V$ dBµV 29145.75 22.95 18.30 24.24 47.19 42.54 74.88 54.88 26.81 11.46 199 347 37574.50 24.94 20.40 39752.50 25.80 21.99 24.54 21,74 9.08 4. 24.52 49.46 44.92 74.00 54.88 199 8 vertical ventical

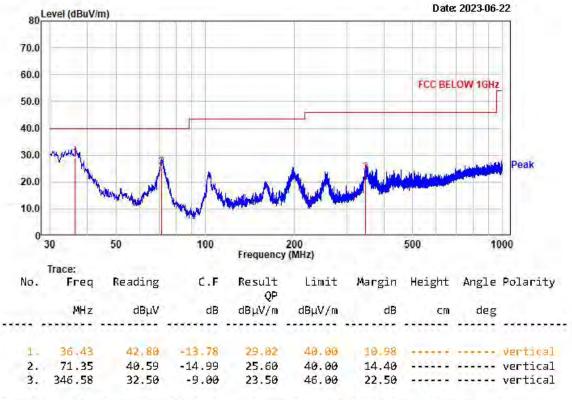
Copyright © 2023, LTA Co., Ltd.

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

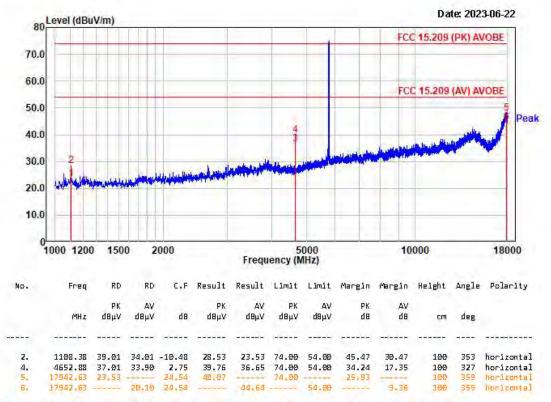
Radiated Emissions - 802.11 an40 mode Band 2



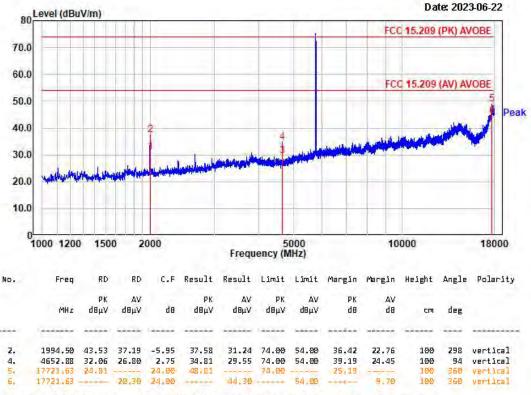
Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain



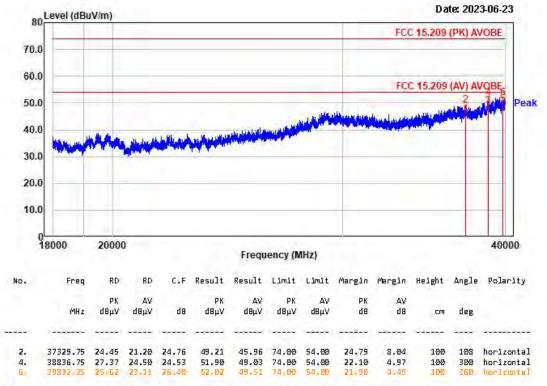
Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain



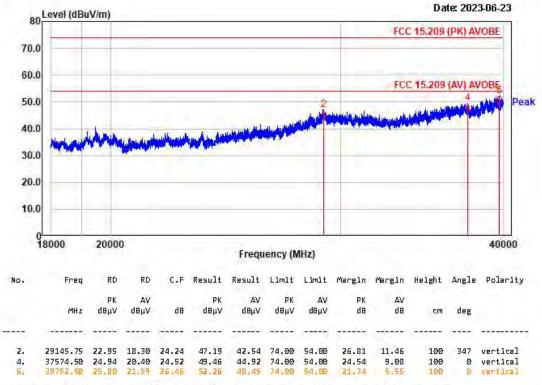
Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain



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

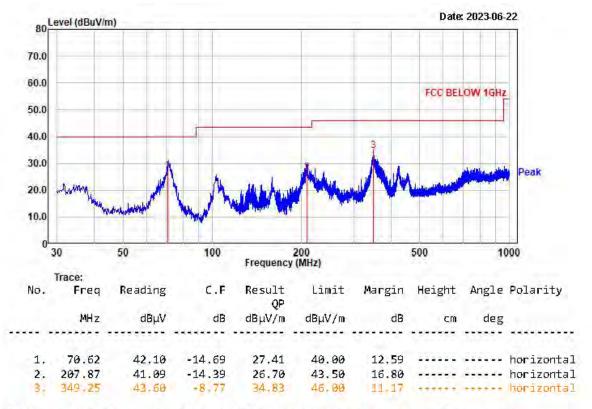


Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain

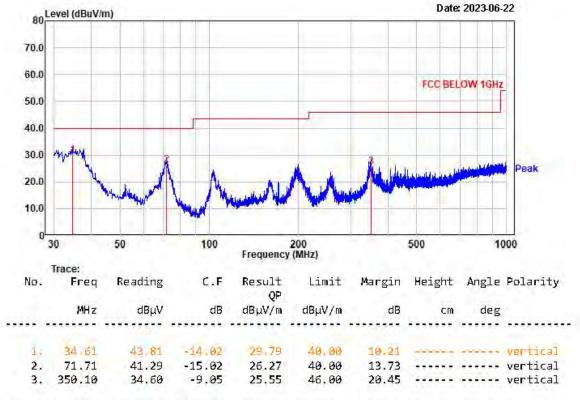


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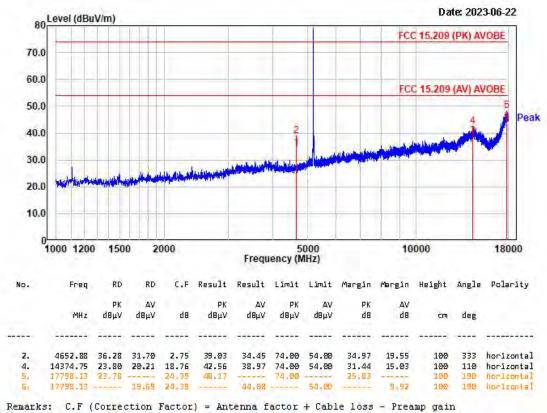
Radiated Emissions - 802.11 ac20 mode Band 1



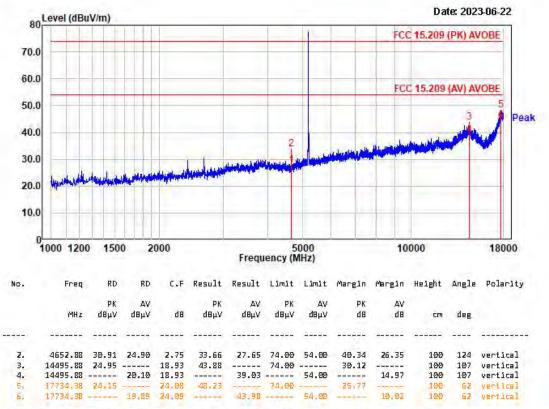
Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain



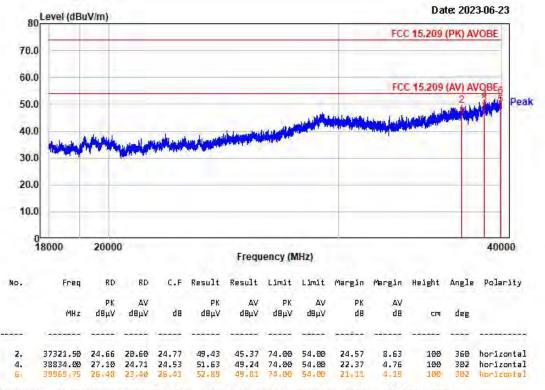
Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain



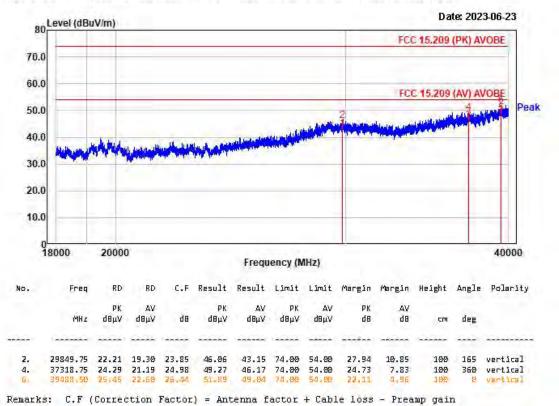
Remains: C.F (Collection Faccos) - Ancenna Lactor + Cable 1088 - Fleamp gain



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

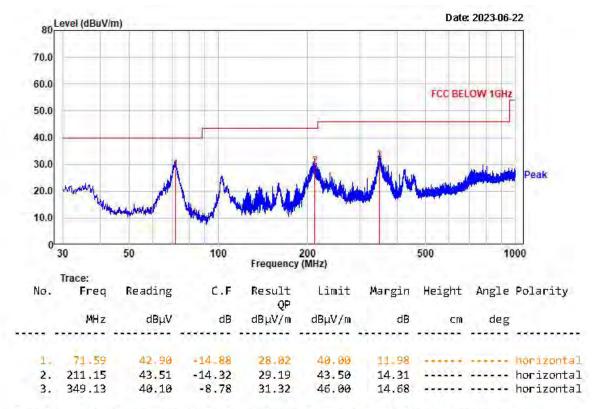


Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain

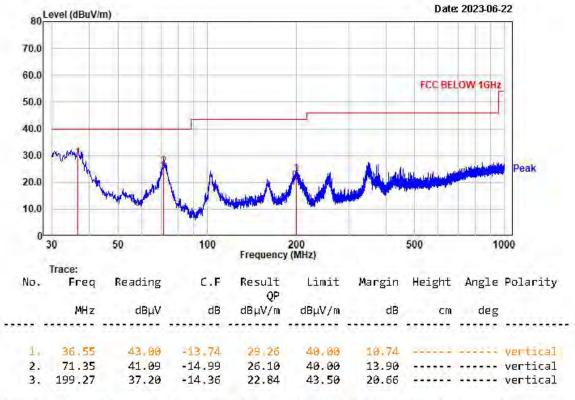


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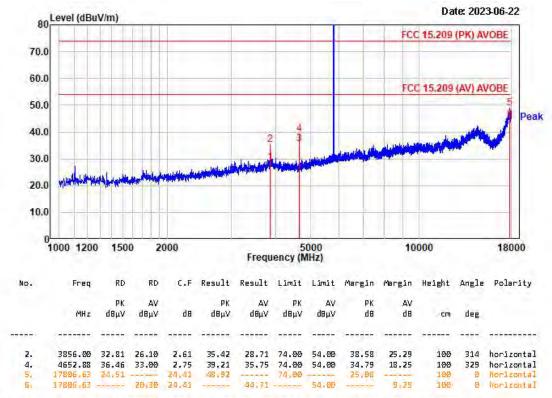
Radiated Emissions - 802.11 ac20 mode Band 2



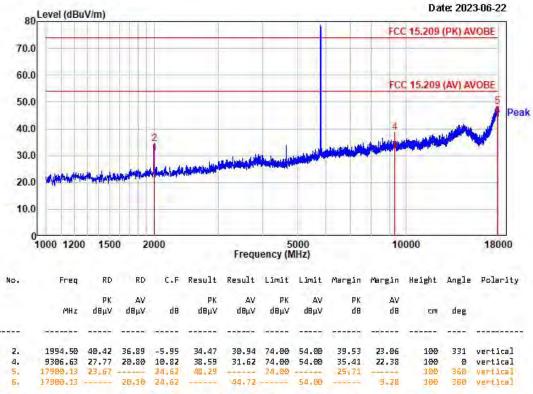
Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain



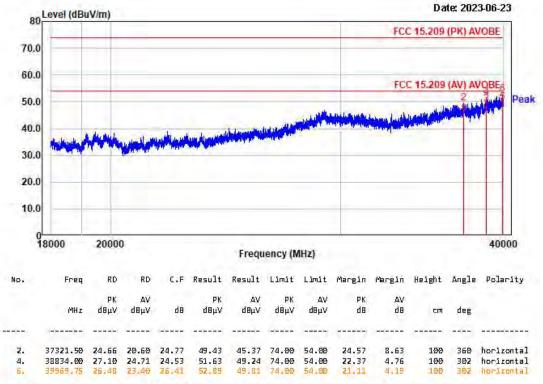
Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain



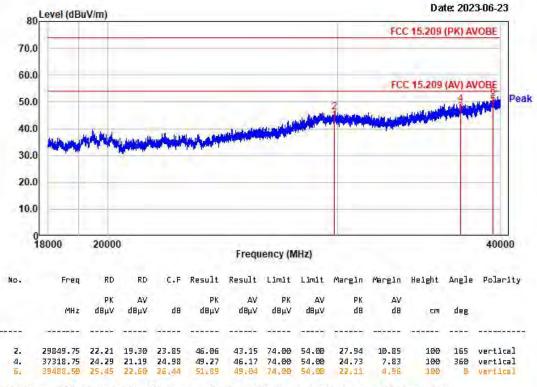
Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain



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

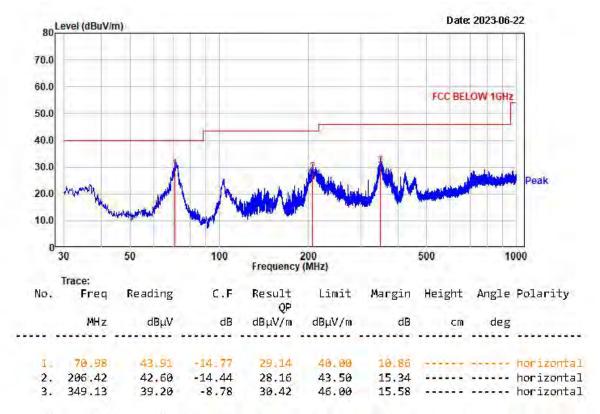


Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain

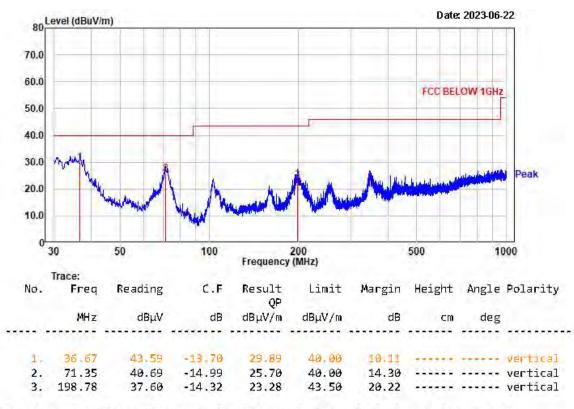


Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain

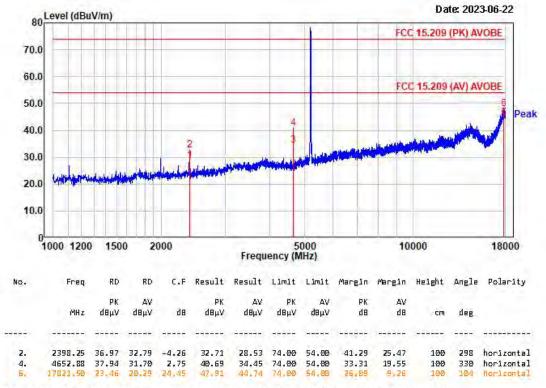
Radiated Emissions – 802.11 ac40 mode Band 1



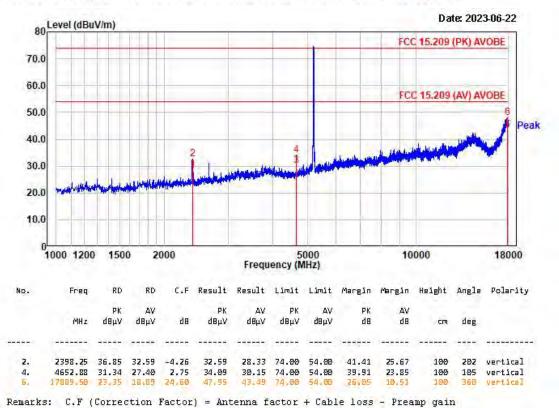
Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain

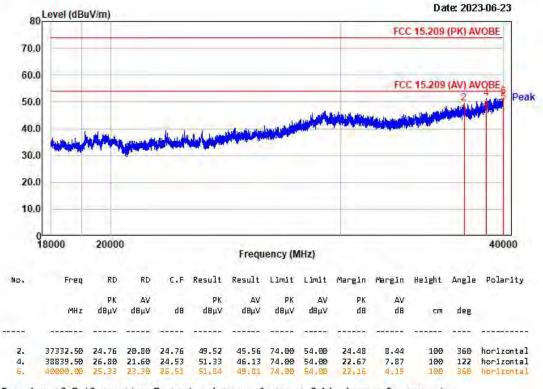


Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain

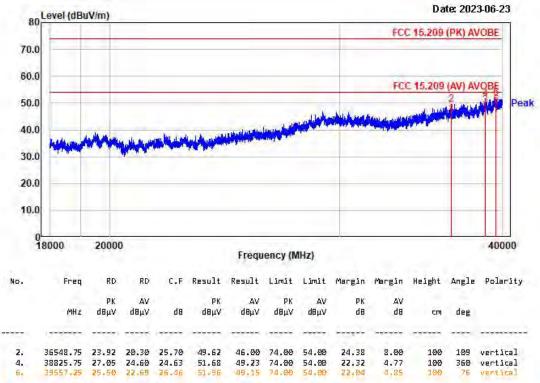


Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain



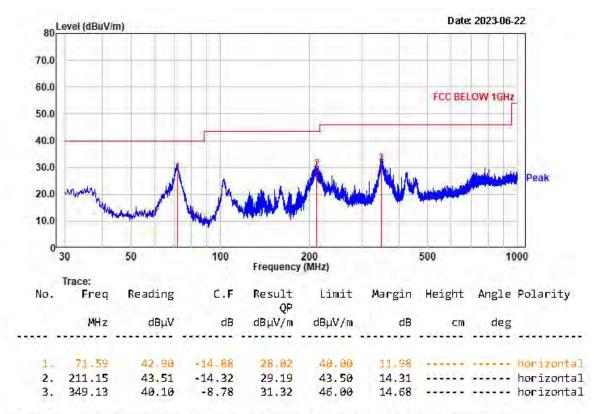




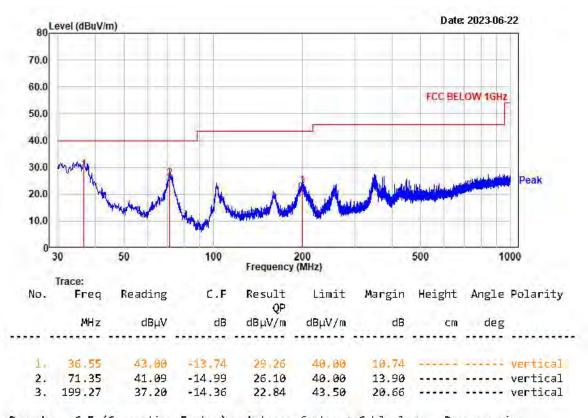


Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain

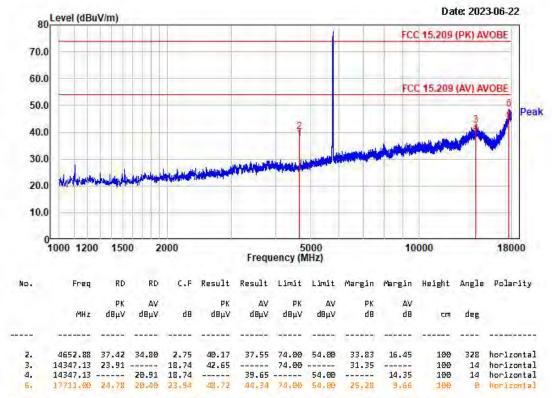
Radiated Emissions - 802.11 ac40 mode Band 2



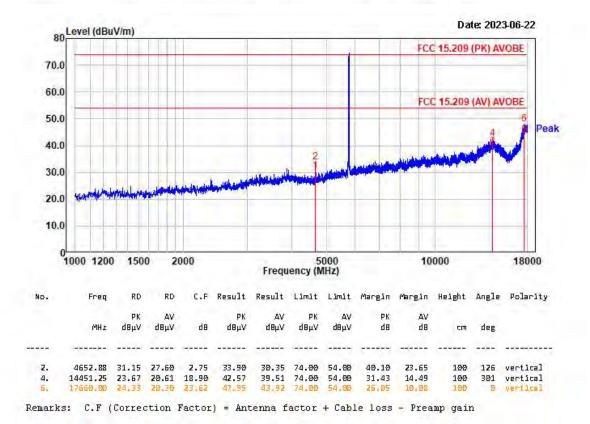
Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain



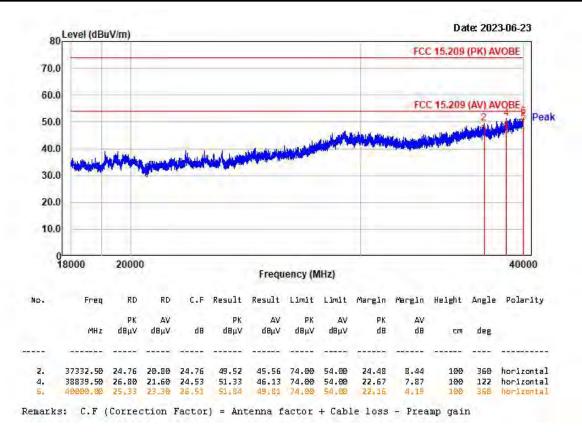
Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain

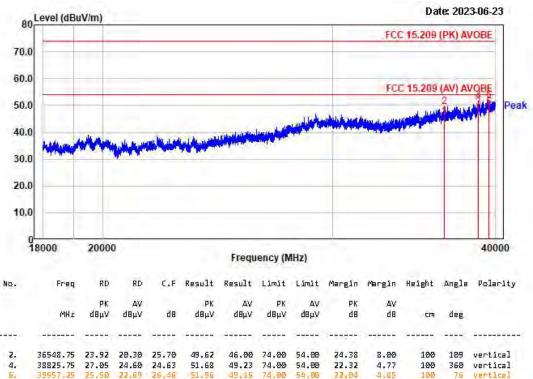


Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain



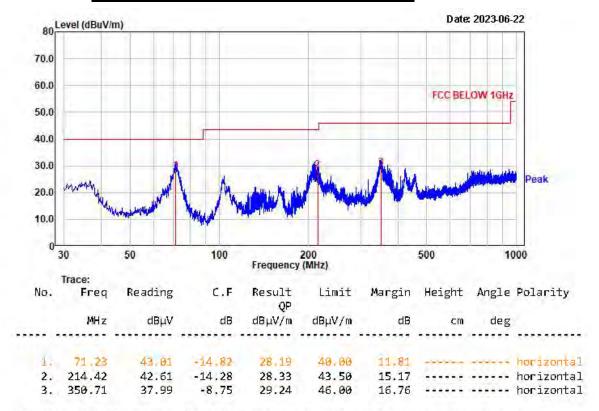
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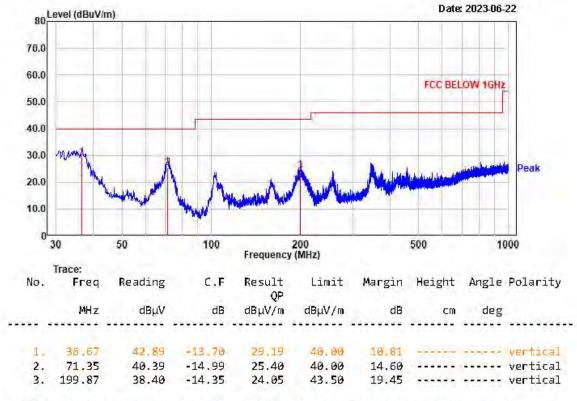


Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain

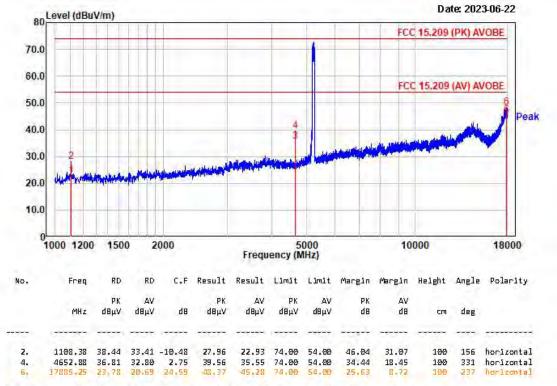
Radiated Emissions - 802.11 ac80 mode Band 1



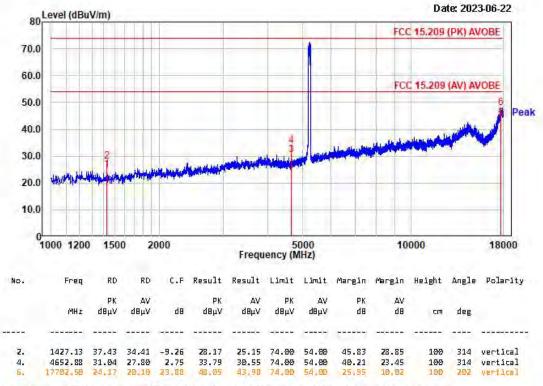
Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain



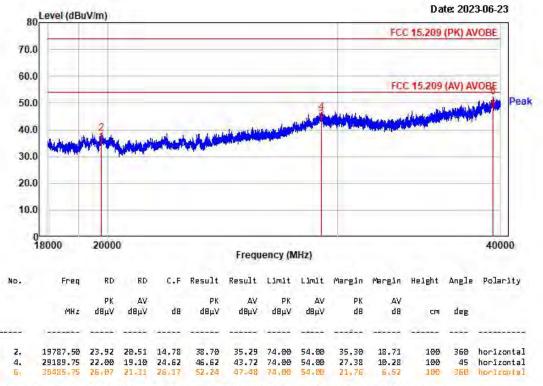
Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain



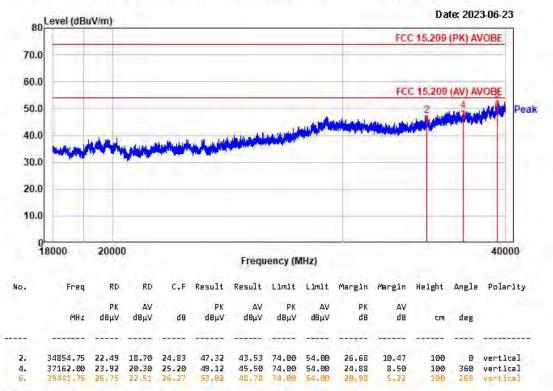
Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain



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

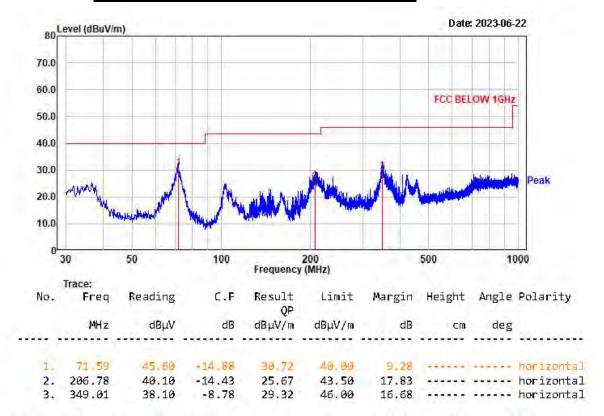


Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain

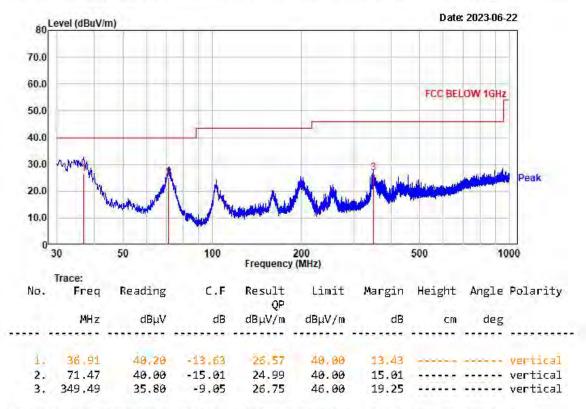


Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain

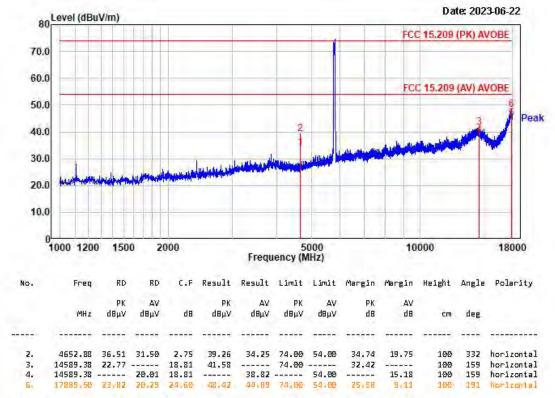
Radiated Emissions - 802.11 ac80 mode Band 2



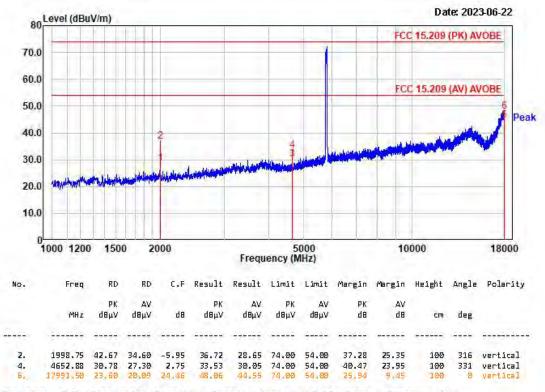
Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain



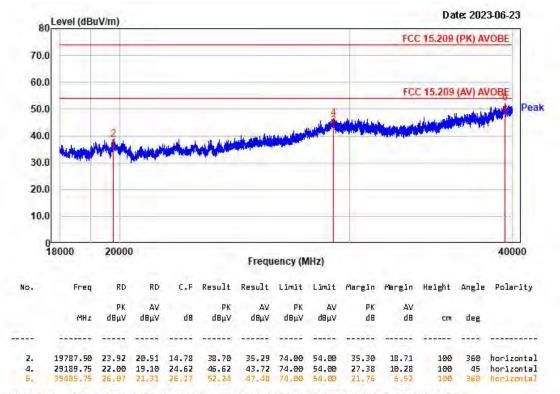
Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain



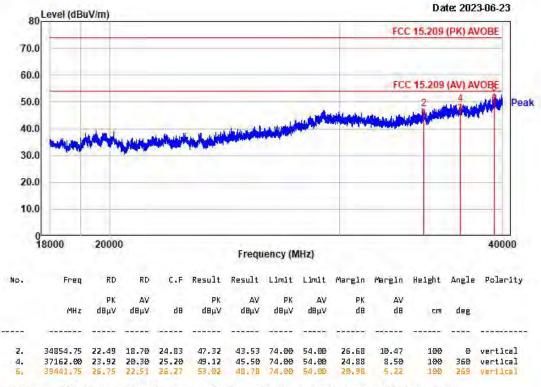
Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain



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

3.2.8 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.

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

Measurement Data: N/A

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

Ref. No.: LR500112306A

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	2023-08-30
2		Signal Generator (~3.2 GHz)	8648C	3623A02597	HP	1 year	2024-03-14
3		SYNTHESIZED CW GENERATOR	83711B	US34490456	HP	1 year	2024-03-14
4		Double Ridge Horn Antenna	3116B	133350	ETS	1 year	2024-04-03
5		AMPLIFIER	PAM-840A	461314	COM-POWER CORPORATION	2 year	2024-03-15
6		EMI Test Receiver (~7 GHz)	ESCI7	100722	R&S	1 year	2023-08-30
7		RF Amplifier (~1.3 GHz)	8447D OPT 010	2944A07684	НР	1 year	2023-08-30
8		RF Amplifier (1~26.5 GHz)	8449B	3008A02126	НР	1 year	2024-03-14
9		Horn Antenna (1~18 GHz)	3115	00114105	ETS	2 year	2023-08-30
10		DRG Horn (Small)	3116B	81109	ETS-Lindgren	2 year	2024-03-18
11		DRG Horn (Small)	3116B	133350	ETS-Lindgren	2 year	2024-03-18
12		TRILOG Antenna	VULB 9160	9160-3237	SCHWARZBECK	2 year	2024-03-14
13		Temp.Humidity Data Logger	SK-L200TH II A	00801	SATO	1 year	2024-03-14
14		Splitter (SMA)	ZFSC-2-2500	SF617800326	Mini-Circuits	-	-
15		DC Power Supply	6674A	3637A01657	Agilent	-	-
17		Power Meter	EPM-441A	GB32481702	НР	1 year	2024-03-14
18		Power Sensor	8481A	3318A94972	НР	1 year	2023-08-30
19		Audio Analyzer	8903B	3729A18901	НР	1 year	2023-08-30
20		Moduleation Analyzer	8901B	3749A05878	НР	1 year	2023-08-30
21		TEMP & HUMIDITY Chamber	YJ-500	LTAS06041	JinYoung Tech	1 year	2023-08-30
22		Stop Watch	HS-3	812Q08R	CASIO	2 year	2026-03-14
23		LISN	KNW-407	8-1430-1	Kyoritsu	1 year	2024-03-14
24		Two-Lime V-Network	ESH3-Z5	893045/017	R&S	1 year	2024-03-14
25		UNIVERSAL RADIO COMMUNICATION TESTER	CMU200	106243	R&S	1 year	2024-03-14
26		Highpass Filter	WHKX1.5/15G-10SS	74	Wainwright Instruments	1 year	2024-03-14
27		Highpass Filter	WHKX3.0/18G-10SS	118	Wainwright Instruments	1 year	2024-03-14
28		OSP120 BASE UNIT	OSP120	101230	R&S	1 year	2024-03-14
29		Signal Generator(100 kHz ~ 40 GHz)	SMB100A03	177621	R&S	1 year	2024-03-14
30		Signal Analyzer (10 Hz ~ 40 GHz)	FSV40	101367	R&S	1 year	2024-03-14
31		Active Loop Antenna	FMZB 1519	1519-031	SCHWARZBECK	2 year	2024-03-16