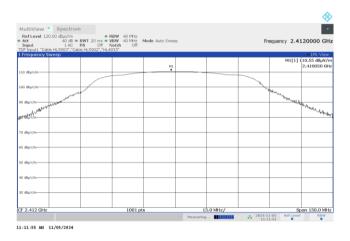


Test specification:	Section 15.247(b)3 / RSS-247 section 5.4(4), Maximum output power					
Test procedure:	ANSI C63.10 sections 11.9.2.2.	4				
Test mode:	Compliance	Verdict:	PASS			
Date(s):	06-Nov-24	verdict:	PASS			
Temperature: 24 °C	Relative Humidity: 42 %	Air Pressure: 1003 hPa	Power: 120 VAC, 60 Hz			
Remarks:						

### Plot 7.2.2 Field strength of carrier at low frequency (continuation)

CHANNEL BANDWIDTH: 20 MHz MODULATION/BITRATE: BPSK/6 Mbps



### CHANNEL BANDWIDTH: 20 MHz MODULATION/BITRATE: 64 QAM/ 54 Mbps

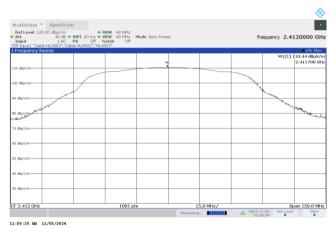
MultiView Spectru Ref Level 120.00 dBµV/m Att 40 dB	• R	BW 40 MHz /	Mode Auto Sweep			Fre	equency 2.4	120000 GH
Input 1 AC DF Input1 "Cable HL3903","Ca	PS Off N	otch Off					Appendy ETT.	
Frequency Sweep							MILLI	1Pk View 10.51 dBµV/r
10 dBµ/v/m			MI				ma(1)	2.410800 G
20 d8(rv/m						-		
00 dBµ/v/m						1	<u></u>	
0 d8µV/m							and the second second	
BUV/Barton								- stranter
0 d8µV/m								
0 dBµV/m								
0 d8µV/m								
0 d8µV/m								
) d8µV/m								
F 2.412 GHz		1001 pt	s	15	.0 MHz/		-05 Ref Level	an 150.0 MH



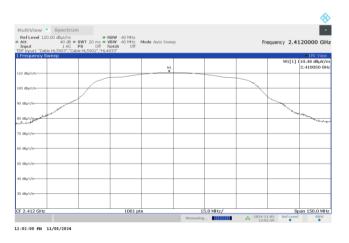
Test specification:	Section 15.247(b)3 / RSS-247 section 5.4(4), Maximum output power					
Test procedure:	ANSI C63.10 sections 11.9.2.2.	4				
Test mode:	Compliance	Verdict:	PASS			
Date(s):	06-Nov-24	verdict:	PASS			
Temperature: 24 °C	Relative Humidity: 42 %	Air Pressure: 1003 hPa	Power: 120 VAC, 60 Hz			
Remarks:						

### Plot 7.2.3 Field strength of carrier at low frequency (continuation)

CHANNEL BANDWIDTH: 20 MHz MODULATION/BITRATE: BPSK/6.5 Mbps



### CHANNEL BANDWIDTH: 20 MHz MODULATION/BITRATE: 64 QAM/65 Mbps

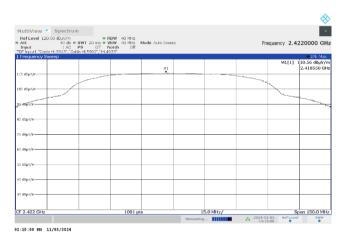




Test specification:	Section 15.247(b)3 / RSS-247 section 5.4(4), Maximum output power					
Test procedure:	ANSI C63.10 sections 11.9.2.2.	4				
Test mode:	Compliance	Verdict: PASS				
Date(s):	06-Nov-24	verdict:	PASS			
Temperature: 24 °C	Relative Humidity: 42 %	Air Pressure: 1003 hPa	Power: 120 VAC, 60 Hz			
Remarks:						

### Plot 7.2.4 Field strength of carrier at low frequency (continuation)

CHANNEL BANDWIDTH: 40 MHz MODULATION/BITRATE: BPSK / 6.5 Mbps



### CHANNEL BANDWIDTH: 40 MHz MODULATION/BITRATE: 64QAM / 65 Mbps

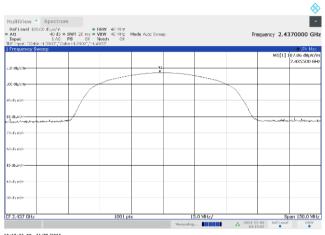
Frequency Sweep	903", "Cable HL5902", "H	4933'			= 1Pk vie
			MI		M1[1] 110.61 dBµV 2.422150 €
0 d8µV/kr				 	
0 dBµV/in	$\square$				
dapt?/r:					
d3µV/m					
d8µv/m				 	
dtµv/m				 	
d3µV/m					
d8µv/m					
dBuV/m-					



Test specification:	Section 15.247(b)3 / RSS-247 section 5.4(4), Maximum output power					
Test procedure:	ANSI C63.10 sections 11.9.2.2.	4				
Test mode:	Compliance	Verdict:	PASS			
Date(s):	06-Nov-24	verdict:	PASS			
Temperature: 24 °C	Relative Humidity: 42 %	Air Pressure: 1003 hPa	Power: 120 VAC, 60 Hz			
Remarks:						

### Plot 7.2.5 Field strength of carrier at mid frequency

CHANNEL BANDWIDTH: 20 MHz MODULATION/BITRATE: DBPSK /1 Mbps



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CHANNEL BANDWIDTH: 20 MHz MODULATION/BITRATE: CCK/11 Mbps

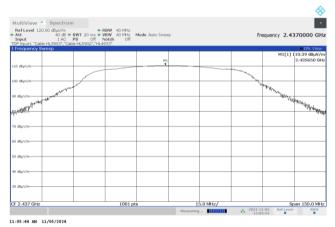
10 d8µ/v/m		M1	 	 	2.435200 GH
DD dBµV/m				 	
0 d8µV/m			 	 	
13 d8µV/m 				manuel.	~s^aftybet-sh
0 d8µV/m					
0 d8µV/m					
0 d8µV/m					



Test specification:	Section 15.247(b)3 / RSS-247 section 5.4(4), Maximum output power					
Test procedure:	ANSI C63.10 sections 11.9.2.2.	4				
Test mode:	Compliance	Verdict: PASS				
Date(s):	06-Nov-24	verdict:	PASS			
Temperature: 24 °C	Relative Humidity: 42 %	Air Pressure: 1003 hPa	Power: 120 VAC, 60 Hz			
Remarks:						

### Plot 7.2.6 Field strength of carrier at mid frequency (continuation)

CHANNEL BANDWIDTH: 20 MHz MODULATION/BITRATE: BPSK/6 Mbps



### CHANNEL BANDWIDTH: 20 MHz MODULATION/BITRATE: 64 QAM/54 Mbps

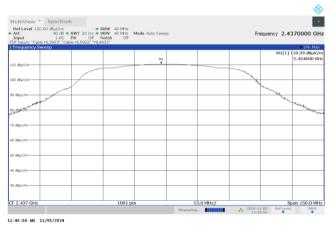
• 1Pk Viev 10.44 dBµV, 2.434450 G
·



Test specification:	Section 15.247(b)3 / RSS-247 section 5.4(4), Maximum output power					
Test procedure:	ANSI C63.10 sections 11.9.2.2.	4				
Test mode:	Compliance	Verdict:	PASS			
Date(s):	06-Nov-24	verdict:	PASS			
Temperature: 24 °C	Relative Humidity: 42 %	Air Pressure: 1003 hPa	Power: 120 VAC, 60 Hz			
Remarks:						

## Plot 7.2.7 Field strength of carrier at mid frequency (continuation)

CHANNEL BANDWIDTH: 20 MHz MODULATION/BITRATE: BPSK/6.5 Mbps



### CHANNEL BANDWIDTH: 20 MHz MODULATION/BITRATE: 64 QAM/65 Mbps

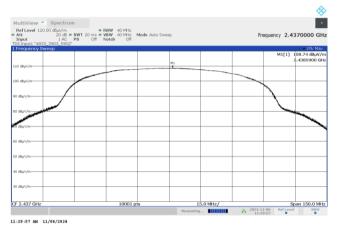
Ref Level 120.00 dBp	ectrum V/m • Re 0 d8 • SWT 20 ms • V8	W 40 MHz	Ande Auto Swee			Fre	quency 2.43	370000 GH
Input	0 dB • SWT 20 ms • VB LAC PS Off Ne 3","Cable HL5902","HL493	tch Off					quency area	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Frequency Sweep								IPk View
0 d8µ/v/m			M1				MILII	10.42 dBµV/ 2.435200 GF
						~		
0 dBµV/m							~	
dBuV/m							- Na	
CB-AUPE B-AV-A-M-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-								- In white white
d8µV/m								
d8µV/m								
d8µV/m								
d8uV/m								
onde stress								
d8µV/m-								
2.437 GHz		1001 pt		1	5.0 MHz/		St	an 150.0 MF



Test specification:	Section 15.247(b)3 / RSS-247 section 5.4(4), Maximum output power					
Test procedure:	ANSI C63.10 sections 11.9.2.2.	4				
Test mode:	Compliance	Verdict: PASS				
Date(s):	06-Nov-24	verdict:	PASS			
Temperature: 24 °C	Relative Humidity: 42 %	Air Pressure: 1003 hPa	Power: 120 VAC, 60 Hz			
Remarks:						

### Plot 7.2.8 Field strength of carrier at mid frequency (continuation)

CHANNEL BANDWIDTH: 40 MHz MODULATION/BITRATE: BPSK / 6.5 Mbps



### CHANNEL BANDWIDTH: 40 MHz MODULATION/BITRATE: 64QAM / 65 Mbps

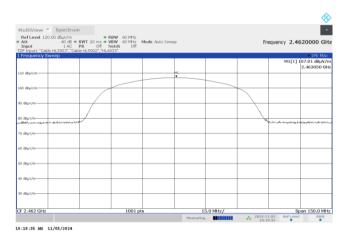
DS Input1 '4933_3903_5902' Frequency Sweep			 1Pk Max 18.23 dBµV/r
	MI		4341800 GH
10 dBµN/m	 •		
00 dBµ/V/m			 
1 d8uV/m			
1 dBµV/m	 	 	_
the Vin			 
d8µV/m	 	 	
) d8µV/m			
0 d8µV/m			
I d8µV/m	 		 



Test specification:	Section 15.247(b)3 / RSS-24	47 section 5.4(4), Maximum	n output power
Test procedure:	ANSI C63.10 sections 11.9.2.2.4	4	
Test mode:	Compliance	Verdict:	PASS
Date(s):	06-Nov-24	verdict:	PASS
Temperature: 24 °C	Relative Humidity: 42 %	Air Pressure: 1003 hPa	Power: 120 VAC, 60 Hz
Remarks:			

## Plot 7.2.9 Field strength of carrier at high frequency

CHANNEL BANDWIDTH: 20 MHz MODULATION/BITRATE: DBPSK /1 Mbps



### CHANNEL BANDWIDTH: 20 MHz MODULATION/BITRATE: CCK/11 Mbps

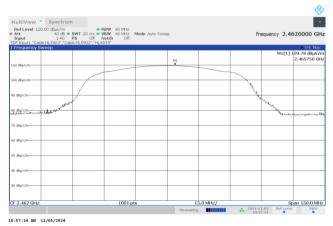
Input 1	dB = SWT 20 ms = AC PS Off	Notch Off	Mode Auto Swe	1P		Fre	equency 2.4	620000 GH
DF Input1 "Cable HL3903 Frequency Sweep	3","Cable HL5902","HL4	1933"						e 1Pk Max
							M1[1]	108.09 dBµV/ 2.462300 GF
10 dB4/v/m				1				21102000 0
00 dBµ/v/m		-						
0 d8µV/m								
1 dByV/m	water					- <sup>1</sup>	hormale Americana	mathematice
0 d8µV/m								
1 dBuV/m								
0 d8µV/m		-						
0 d8μV/m-								
1 dBuV/m								
a reh Aler								
F 2.462 GHz		1001 pt	5	12	5.0 MHz/		s	pan 150.0 MH



Test specification:	Section 15.247(b)3 / RSS-2	47 section 5.4(4), Maximum	n output power
Test procedure:	ANSI C63.10 sections 11.9.2.2.	4	
Test mode:	Compliance	Verdict:	PASS
Date(s):	06-Nov-24	verdict:	PASS
Temperature: 24 °C	Relative Humidity: 42 %	Air Pressure: 1003 hPa	Power: 120 VAC, 60 Hz
Remarks:			

### Plot 7.2.10 Field strength of carrier at high frequency (continuation)

CHANNEL BANDWIDTH: 20 MHz MODULATION/BITRATE: BPSK/6 Mbps



### CHANNEL BANDWIDTH: 20 MHz MODULATION/BITRATE: 64 QAM/54 Mbps

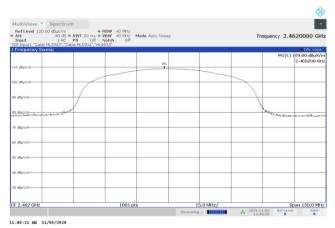
● 1Pk. View 109.29 dBµV/ 2.462300 G
anger aloge a
-



Test specification:	Section 15.247(b)3 / RSS-2	47 section 5.4(4), Maximum	n output power
Test procedure:	ANSI C63.10 sections 11.9.2.2.	4	
Test mode:	Compliance	Verdict:	PASS
Date(s):	06-Nov-24	verdict:	PASS
Temperature: 24 °C	Relative Humidity: 42 %	Air Pressure: 1003 hPa	Power: 120 VAC, 60 Hz
Remarks:			

### Plot 7.2.11 Field strength of carrier at high frequency (continuation)

CHANNEL BANDWIDTH: 20 MHz MODULATION/BITRATE: BPSK/6.5 Mbps



### CHANNEL BANDWIDTH: 20 MHz MODULATION/BITRATE: 64 QAM/65 Mbps

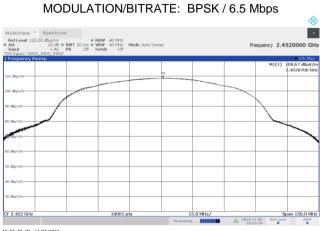
Input 1	dB • SWT 20 ms • AC PS Off	Notch Off	Mode Auto Sweet	P		Fre	equency 2.4	620000 Gł
DF Input1 "Cable HL3903 Frequency Sweep	3","Cable HL5902","HL	4933"						• 1Pk View
			MI				M1[1]	109.26 dBµV/ 2.460350 G
0 dBµ/c/m		-	¥		-			
00 dBµV/m						_		
d8µV/m						/		
dBUV/m www.co.co.co.co.co.co.co.co.co.co.co.co.co.	woodbard						and menter	and a star of the
d8µV/m-								
d8µv/m								
d8µV/m								
d8µV/m								
d8µV/m								



Test specification:	Section 15.247(b)3 / RSS-24	47 section 5.4(4), Maximum	n output power
Test procedure:	ANSI C63.10 sections 11.9.2.2.4	4	
Test mode:	Compliance	Verdict:	PASS
Date(s):	06-Nov-24	verdict:	PASS
Temperature: 24 °C	Relative Humidity: 42 %	Air Pressure: 1003 hPa	Power: 120 VAC, 60 Hz
Remarks:			

### Plot 7.2.12 Field strength of carrier at high frequency (continuation)

CHANNEL BANDWIDTH: 40 MHz



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#### CHANNEL BANDWIDTH: 40 MHz MODULATION/BITRATE: 64QAM / 65 Mbps

DS Input1 14933 3903 5 Frequency Sweep	1902							<ul> <li>1Pk Max</li> </ul>
							M1[1]	108.49 dBµV/ 2.455150 GF
10 d8µv/m				м.				
00 d9µ//m								
	X							
a dayv/m	/							
1 d0µV/m								
- Goldyn								
diguv/m								
i dauv/m								
a nelto 201								
3 daµv/m								
1 d8µs/m								
ada ya								
1 d9µV/m								
F 2.452 GHz		1001 p	ts	1	5.0 MHz/	2024-11		pan 150.0 MF

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Test specification:	Section 15.247(d) / RSS-24	7 section 5.5, Radiated spu	irious emissions
Test procedure:	ANSI C63.10 section 11.12.1		
Test mode:	Compliance	Verdict:	PASS
Date(s):	06-Nov-24 - 07-Nov-24	verdict:	PASS
Temperature: 24 °C	Relative Humidity: 42 %	Air Pressure: 1016 hPa	Power: 120 VAC, 60 Hz
Remarks: WIFI			

# 7.3 Field strength of spurious emissions

### 7.3.1 General

This test was performed to measure field strength of spurious emissions from the EUT. Specification test limits are given in Table 7.3.1.

Frequency, MHz	Field streng	th at 3 m within res dB(μV/m)*	tricted bands,	Attenuation of field strength of spurious versus
riequeney, initz	Peak	Quasi Peak	Average	carrier outside restricted bands, dBc***
0.009 - 0.090	148.5 – 128.5	NA	128.5 - 108.5**	
0.090 – 0.110	NA	108.5 – 106.8**	NA	
0.110 – 0.490	126.8 – 113.8	NA	106.8 - 93.8**	
0.490 – 1.705		73.8 – 63.0**		
1.705 – 30.0*		69.5		20.0
30 - 88	NA	40.0	NA	20.0
88 – 216	NA	43.5	NA NA	
216 - 960		46.0		
960 - 1000		54.0		
1000 – 10 <sup>th</sup> harmonic	74.0	NA	54.0	

### Table 7.3.1 Radiated spurious emissions limits

\*- The limit for 3 m test distance was calculated using the inverse square distance extrapolation factor as follows: Lim<sub>S2</sub> = Lim<sub>S1</sub> + 40 log (S<sub>1</sub>/S<sub>2</sub>),

where  $S_1$  and  $S_2$  – standard defined and test distance respectively in meters.

\*\*- The limit decreases linearly with the logarithm of frequency.

\*\*\* - The field strength limits applied from the lowest radio frequency generated in the device, without going below 9 kHz up to the tenth harmonic of the highest fundamental frequency.

## 7.3.2 Test procedure for spurious emission field strength measurements in 9 kHz to 30 MHz band

- 7.3.2.1 The EUT was set up as shown in Figure 7.3.1, energized and the performance check was conducted.
- **7.3.2.2** The specified frequency range was investigated with antenna connected to spectrum analyzer/ EMI receiver. To find maximum radiation the turntable was rotated 360<sup>0</sup> and the measuring antenna was rotated around its vertical axis.
- 7.3.2.3 The worst test results (the lowest margins) were recorded and shown in the associated plots.

### 7.3.3 Test procedure for spurious emission field strength measurements above 30 MHz

- 7.3.3.1 The EUT was set up as shown in Figure 7.3.2, Figure 7.3.3, energized and the performance check was conducted.
- **7.3.3.2** The specified frequency range was investigated with antenna connected to spectrum analyzer/ EMI receiver. To find maximum radiation the turntable was rotated 360<sup>o</sup>, the measuring antenna height was changed from 1 to 4 m, its polarization was switched from vertical to horizontal.
- 7.3.3.3 The worst test results (the lowest margins) were recorded and shown in the associated plots.



Test specification:	Section 15.247(d) / RSS-247 section 5.5, Radiated spurious emissions						
Test procedure:	ANSI C63.10 section 11.12.1						
Test mode:	Compliance	Vardiate	PASS				
Date(s):	06-Nov-24 - 07-Nov-24	Verdict:	PA33				
Temperature: 24 °C	Relative Humidity: 42 %	Air Pressure: 1016 hPa	Power: 120 VAC, 60 Hz				
Remarks: WIFI							

Figure 7.3.1 Setup for spurious emission field strength measurements below 30 MHz

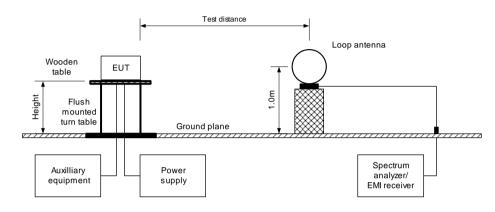
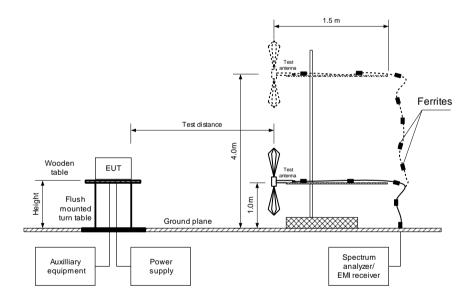


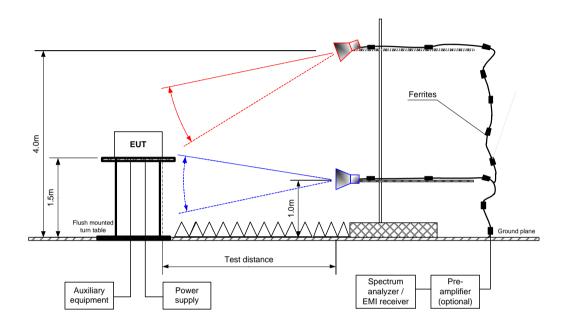
Figure 7.3.2 Setup for spurious emission field strength measurements in 30 -1000 MHz





Test specification:	Section 15.247(d) / RSS-247 section 5.5, Radiated spurious emissions					
Test procedure:	ANSI C63.10 section 11.12.1					
Test mode:	Compliance	Vardiate	PASS			
Date(s):	06-Nov-24 - 07-Nov-24	Verdict:	PA33			
Temperature: 24 °C	Relative Humidity: 42 %	Air Pressure: 1016 hPa	Power: 120 VAC, 60 Hz			
Remarks: WIFI						

Figure 7.3.3 Setup for spurious emission field strength measurements above1000 MHz





Test specification:	Section 15.247(d) / RSS-247 section 5.5, Radiated spurious emissions				
Test procedure:	ANSI C63.10 section 11.12.1				
Test mode:	Compliance	Verdict:	PASS		
Date(s):	06-Nov-24 - 07-Nov-24	verdict.	FA33		
Temperature: 24 °C	Relative Humidity: 42 %	Air Pressure: 1016 hPa	Power: 120 VAC, 60 Hz		
Remarks: WIFI					

### Table 7.3.2 Field strength of emissions outside restricted bands

ASSIGNED FREQUENCY:	2400 – 2483.5 MHz
INVESTIGATED FREQUENCY RANGE:	0.009 – 40000 MHz
TEST DISTANCE:	3 m
MODULATION:	11n
BIT RATE:	6.5 Mbps
DUTY CYCLE:	100 %
DETECTOR USED:	Peak
RESOLUTION BANDWIDTH:	100 kHz
VIDEO BANDWIDTH:	300 kHz
TEST ANTENNA TYPE:	Active loop (9 kHz – 30 MHz)
	Biconilog (30 MHz – 1000 MHz)
	Double ridged guide (above 1000 MHz)

Frequency, MHz	Field strength of spurious, dB(μV/m)	Antenna polarization	Antenna height, m	Azimuth, degrees*	Field strength of carrier, dB(µV/m)	Attenuation below carrier, dBc	Limit, dBc	Margin, dB**	Verdict
Low carrier	frequency								
36.471	29.73	Vertical	1.00	81		68.69		48.69	
63.818	28.48	Vertical	1.41	152	98.42	69.94	20.0	49.94	Pass
81.282	33.57	Vertical	1.41	-38		64.85		44.85	
Mid carrier	frequency								
36.613	30.83	Vertical	1.00	81		67.53		47.53	
64.531	27.91	Vertical	1.61	68	98.36	70.45	20.0	40.45	Pass
82.736	33.25	Vertical	1.42	-49		65.11		45.11	
High carrier	frequency								
36.380	29.50	Vertical	1.00	79		63.93		43.93	
65.248	27.57	Vertical	1.48	60	93.43	65.86	20.0	45.86	Pass
81.934	33.75	Vertical	1.42	-50		59.68		49.68	

\*- EUT front panel refers to 0 degrees position of turntable. \*\*- Margin = Attenuation below carrier – specification limit.



Test specification:	Section 15.247(d) / RSS-247 section 5.5, Radiated spurious emissions				
Test procedure:	ANSI C63.10 section 11.12.1				
Test mode:	Compliance	- Verdict:	PASS		
Date(s):	06-Nov-24 - 07-Nov-24	verdict:	PA33		
Temperature: 24 °C	Relative Humidity: 42 %	Air Pressure: 1016 hPa	Power: 120 VAC, 60 Hz		
Remarks: WIFI	-	·			

## Table 7.3.3 Field strength of spurious emissions above 1 GHz within restricted bands

INVESTIGA TEST DIST MODULAT BIT RATE: DUTY CYC DETECTOI RESOLUTI	SSIGNED FREQUENCY:2400 – 2583.5 MHzNVESTIGATED FREQUENCY RANGE:1000 – 40000 MHzTEST DISTANCE:3 mMODULATION:BPSKMT RATE:6.5 MbpsDUTY CYCLE:100 %DETECTOR USED:PeakRESOLUTION BANDWIDTH:1000 kHzTEST ANTENNA TYPE:Double ridged guide										
	Anton				Call at a trace						
Frequency.	Antenr		Azimuth.		field stren	-		Average field		Manula	
Frequency, MHz		na Height, m	Azimuth, degrees*	Measured,	Limit, dB(µV/m)	Margin,		Calculated,		Margin, dB***	Verdict
MHz		Height,		Measured,	Limit,	Margin,	Measured,	Calculated,	Limit,		Verdict
MHz	Polarization	Height,		Measured, dB(μV/m)	Limit,	Margin, dB**	Measured, dB(μV/m)	Calculated,	Limit,		Verdict
MHz	Polarization r frequency	Height,		Measured, dB(μV/m)	Limit, dB(µV/m)	Margin, dB**	Measured, dB(μV/m)	Calculated,	Limit,		Verdict
MHz Low carrie	Polarization r frequency	Height,		Measured, dB(μV/m) Να	Limit, dB(µV/m)	Margin, dB** were found	Measured, dB(μV/m)	Calculated,	Limit,		Verdict
MHz Low carrie Mid carrier	Polarization r frequency	Height,		Measured, dB(μV/m) Να	Limit, dB(µV/m)	Margin, dB** were found	Measured, dB(μV/m)	Calculated,	Limit,		Verdict

\*- EUT front panel refers to 0 degrees position of turntable. \*\*- Margin = Measured field strength - specification limit. \*\*\*- Margin = Calculated field strength - specification limit, where Calculated field strength = Measured field strength + average factor.

### Table 7.3.4 Average factor calculation

	Transmiss	sion pulse	Transmis	sion burst	Transmission train	Average factor,	
	Duration, ms	Period, ms	Duration, ms	Period, ms	duration, ms	dB	
	NA	NA	NA	NA	NA	NA	
*- Average factor was calculated as follows for pulse train shorter than 100 ms: $Average \ factor = 20 \times \log_{10} \left( \frac{Pulse \ duration}{Pulse \ period} \times \frac{Burst \ duration}{Train \ duration} \times Number \ of \ bursts \ within \ pulse \ train} \right)$							
	for pulse train	longer than 100 ms:	Average factor = $20 \times \log_{10}$	$\frac{Pulse \ duration}{Pulse \ period} \times \frac{Burst}{10}$	$\frac{duration}{0 \text{ ms}} \times Number of bursts$	within 100 ms	



Test specification:	Section 15.247(d) / RSS-247 section 5.5, Radiated spurious emissions					
Test procedure:	ANSI C63.10 section 11.12.1					
Test mode:	Compliance	Verdict:	PASS			
Date(s):	06-Nov-24 - 07-Nov-24	verdict:	PA33			
Temperature: 24 °C	Relative Humidity: 42 %	Air Pressure: 1016 hPa	Power: 120 VAC, 60 Hz			
Remarks: WIFI						

# Table 7.3.5 Field strength of spurious emissions below 1 GHz within restricted bands

ASSIGNED FREQUENCY:	2400 – 2483.5 MHz
INVESTIGATED FREQUENCY RANGE:	0.009 – 1000 MHz
TEST DISTANCE:	3 m
DUTY CYCLE:	100 %
RESOLUTION BANDWIDTH:	0.2 kHz (9 kHz – 150 kHz)
	9.0 kHz (150 kHz – 30 MHz)
	120 kHz (30 MHz – 1000 MHz)
VIDEO BANDWIDTH:	> Resolution bandwidth
TEST ANTENNA TYPE:	Active loop (9 kHz – 30 MHz)
	Biconilog (30 MHz – 1000 MHz)
	-

Frequency	Peak	Qua	isi-peak		Antonno	Antonno	Turn-table	
Frequency, MHz	emission, dB(μV/m)	Measured emission, dB(μV/m)	Limit, dB(µV/m)	Margin, dB*	Antenna polarization	Antenna height, m	position**, degrees	Verdict
Low carrier	frequency							
			No emissi	ons were found	l.			
Mid carrier	frequency							
			No emissi	ons were found	l.			
High carrier	frequency							
			No emissi	ons were found	l.			

\*- Margin = Measured emission - specification limit. \*\*- EUT front panel refer to 0 degrees position of turntable.



Test specification:	Section 15.247(d) / RSS-247 section 5.5, Radiated spurious emissions				
Test procedure:	ANSI C63.10 section 11.12.1				
Test mode:	Compliance	Verdict:	PASS		
Date(s):	06-Nov-24 - 07-Nov-24	verdict:	PA33		
Temperature: 24 °C	Relative Humidity: 42 %	Air Pressure: 1016 hPa	Power: 120 VAC, 60 Hz		
Remarks: WIFI					

# Table 7.3.6 Restricted bands according to FCC section 15.205

MHz	MHz	MHz	MHz	MHz	GHz
0.09 - 0.11	8.37625 - 8.38675	73 - 74.6	399.9 - 410	2690 - 2900	10.6 - 12.7
0.495 - 0.505	8.41425 - 8.41475	74.8 - 75.2	608 - 614	3260 - 3267	13.25 - 13.4
2.1735 - 2.1905	12.29 - 12.293	108 - 121.94	960 - 1240	3332 - 3339	14.47 - 14.5
4.125 - 4.128	12.51975 - 12.52025	123 - 138	1300 - 1427	3345.8 - 3358	15.35 - 16.2
4.17725 - 4.17775	12.57675 - 12.57725	149.9 - 150.05	1435 - 1626.5	3600 - 4400	17.7 - 21.4
4.20725 - 4.20775	13.36 - 13.41	156.52475 - 156.52525	1645.5 - 1646.5	4500 - 5150	22.01 - 23.12
6.215 - 6.218	16.42 - 16.423	156.7 - 156.9	1660 - 1710	5350 - 5460	23.6 - 24
6.26775 - 6.26825	16.69475 - 16.69525	162.0125 - 167.17	1718.8 - 1722.2	7250 - 7750	31.2 - 31.8
6.31175 - 6.31225	16.80425 - 16.80475	167.72 - 173.2	2200 - 2300	8025 - 8500	36.43 - 36.5
8.291 - 8.294	25.5 - 25.67	240 - 285	2310 - 2390	9000 - 9200	Above 38.6
8.362 - 8.366	37.5 - 38.25	322 - 335.4	2483.5 - 2500	9300 - 9500	ADOVE 30.0

# Table 7.3.7 Restricted bands according to RSS-Gen

MHz	MHz	MHz	MHz	MHz	GHz
0.09 - 0.11	8.291 - 8.294	16.80425 - 16.80475	399.9 - 410	3260 - 3267	10.6 - 12.7
2.1735 - 2.1905	8.362 - 8.366	25.5 - 25.67	608 - 614	3332 - 3339	13.25 - 13.4
3.020 - 3.026	8.37625 - 8.38675	37.5 - 38.25	960 - 1427	3345.8 - 3358	14.47 – 14.5
4.125 - 4.128	8.41425 - 8.41475	73 - 74.6	1435 – 1626.5	3500 - 4400	15.35 – 16.2
4.17725 – 4.17775	12.29 – 12.293	74.8 - 75.2	1645.5 – 1646.5	4500 – 5150	17.7 – 21.4
4.20725 - 4.20775	12.51975 – 12.52025	108 – 138	1660 - 1710	5350 - 5460	22.01 – 23.12
5.677 - 5.683	12.57675 - 12.57725	156.52475 - 156.52525	1718.8 - 1722.2	7250 - 7750	23.6 - 24
6.215 - 6.218	13.36 – 13.41	156.7 - 156.9	2200 - 2300	8025 - 8500	31.2 - 31.8
6.26775 - 6.26825	16.42 - 16.423	240 - 285	2310 - 2390	9000 - 9200	36.43 - 36.5
6.31175 - 6.31225	16.69475 - 16.69525	322 - 335.4	2655 - 2900	9300 - 9500	Above 38.6

# Reference numbers of test equipment used

[	HL 0446	HL 3903	HL 4114	HL 4338	HL 4933	HL 4956	HL 5112	HL 5288
F	HL 5902	HL 7585						

Full description is given in Appendix A.



Test specification:	Section 15.247(d) / RSS-247 section 5.5, Radiated spurious emissions		
Test procedure:	ANSI C63.10 section 11.12.1		
Test mode:	Compliance	Verdict:	PASS
Date(s):	06-Nov-24 - 07-Nov-24	verdict:	PASS
Temperature: 24 °C	Relative Humidity: 42 %	Air Pressure: 1016 hPa	Power: 120 VAC, 60 Hz
Remarks: WIFI			

## Plot 7.3.1 Radiated emission measurements at the low carrier frequency

TEST SITE		Semi anecho 3 m	bic chamber	
	MultiView         Spectrum           Ref Level         120.00 dB;/J/m           Att         40 dB           Input         40 dB           TDF Input         "Cable HL3903", "Cable HL5902","H-4           TFrequency Sweep         Sec	Notch Off		• Frequency 2.4120000 GHz •:Ek Max
				M1[1] 98.42 dBµV/m 2.4069550 GHz
	110 dBµ/v/m			
	100 dBµ/v/m	M2 North March Marcolling		
	90 dByV/m			
	80 dbuv/m 70 dbuv/mbhallanter/Materiality forfurt	and a second	and the second se	hand hand have a start with the second
	70 deux grupper			mallinger
	60 d8µV/m			
	50 d8µV/m			
	40 d8µV/m			
	30 d8µV/m			
	CF 2.412 GHz	1001 pts	5.0 MHz/	Span 50.0 MHz
	e e e e e e e e e e e e e e e e e e e	v - N	teasuring 1224	1-11-05 Ref Level RBW 1:13:43 • •
	11:13:43 AM 11/05/2024			

# Plot 7.3.2 Radiated emission measurements at the mid carrier frequency

TEST SITE		Semi anec 3 m	hoic chamber	
	MultiView         Spectrum           Ref Level         120.00 dBµV/m           Att         40 dB         SWT ;           Input         1 AC         PS           TDF Input         Cable HL3903*, Cable HL5         Frequency Sweep	RBW 100 kHz 20 ms • VBW 400 MHz Off Node Auto Sweep Off Notch Off 902', "HL4933"		Frequency 2.4370000 GHz
				M1[1] 98.36 dBµV/m 2.4319550 GHz
	110 dBµV/m			
	100 dBµ/v/m	M2 mandanananananananananananananananananan	manahan	
	90 d8µV/m		· ~	
	80 d8µV/m-	and for the	Window Manager	William al.
	80 d841/11- 70 d844/allerton dates and a data a			when my ward have my
	60 d8µv/m			
	50 d8µV/m			
	40 d8µV/m			
	30 d8µV/m			
	CF 2.437 GHz	1001 pts	5.0 MHz/	Span 50.0 MHz
		1001 pts	202	24-11-05 Ref Level RBW 11:07:12 • •
	11:07:12 AM 11/05/2024			



Test specification:	Section 15.247(d) / RSS-247 section 5.5, Radiated spurious emissions		
Test procedure:	ANSI C63.10 section 11.12.1		
Test mode:	Compliance	Verdict:	PASS
Date(s):	06-Nov-24 - 07-Nov-24	verdict:	PASS
Temperature: 24 °C	Relative Humidity: 42 %	Air Pressure: 1016 hPa	Power: 120 VAC, 60 Hz
Remarks: WIFI			

# Plot 7.3.3 Radiated emission measurements at the high carrier frequency

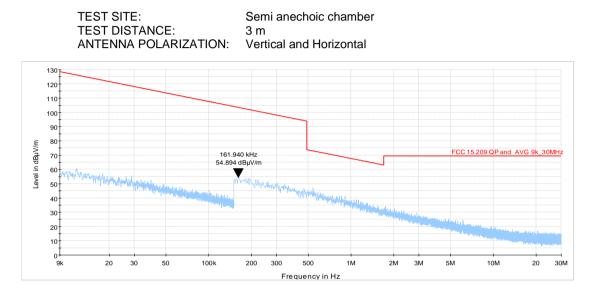
TEST SITE		Semi anech 3 m	oic chamber	
	MultiView         Spectrum           Ref Level 120.00 dB/J/m         ************************************	Notch Off		Frequency 2.4620000 GHz
	1 Frequency Sweep			M1[1] 93.43 dBµV/m 2.4569550 GHz
	100 d8µ/v/m	athenhashashashashashashashashashashashashash	alashalash	
	80 dBµV/m-			
	78 dbyv/m 60 dbyv/m wysangwytrw	ywr	- Providence - Pro	Anton Manufarman
	40 dBµV/m			
	30 d8µV/m CF 2.462 GHz	1001 pts	5.0 MHz/	Span 50.0 MHz
	10-52-52 34 11 (05 (0004		Measuring *** 2024 10	-11-05 Ref Level RBW 58:57

10:58:57 AM 11/05/2024

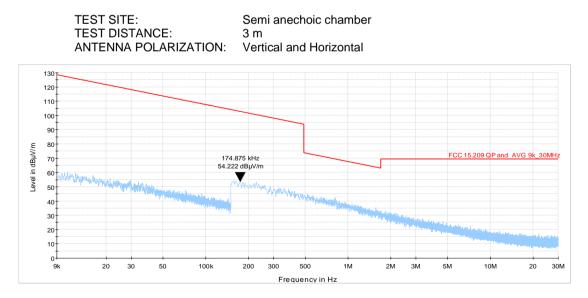


Test specification:	Section 15.247(d) / RSS-247 section 5.5, Radiated spurious emissions		
Test procedure:	ANSI C63.10 section 11.12.1		
Test mode:	Compliance	Verdict:	PASS
Date(s):	06-Nov-24 - 07-Nov-24	verdict.	PASS
Temperature: 24 °C	Relative Humidity: 42 %	Air Pressure: 1016 hPa	Power: 120 VAC, 60 Hz
Remarks: WIFI	-		·





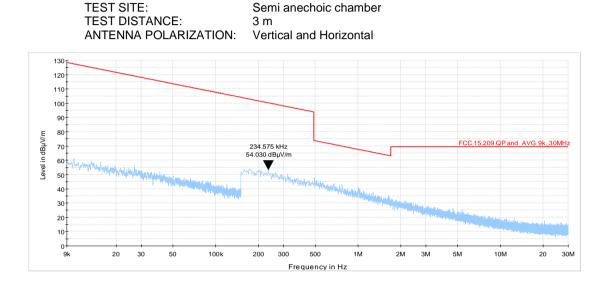






Test specification:	Section 15.247(d) / RSS-247 section 5.5, Radiated spurious emissions		
Test procedure:	ANSI C63.10 section 11.12.1		
Test mode:	Compliance	Verdict:	PASS
Date(s):	06-Nov-24 - 07-Nov-24	verdict:	PASS
Temperature: 24 °C	Relative Humidity: 42 %	Air Pressure: 1016 hPa	Power: 120 VAC, 60 Hz
Remarks: WIFI			

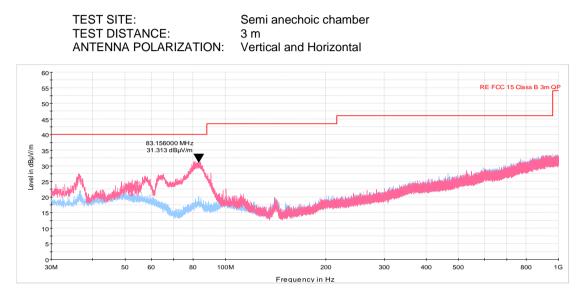
Plot 7.3.6 Radiated emission measurements from 9 kHz to 30 MHz at the high carrier frequency



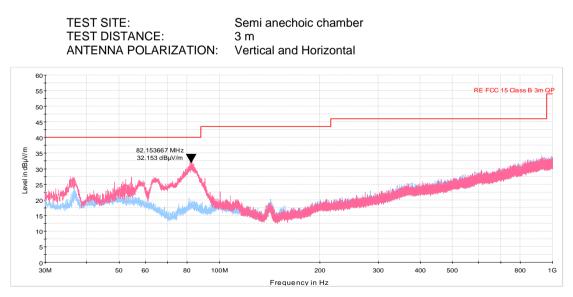


Test specification:	Section 15.247(d) / RSS-247 section 5.5, Radiated spurious emissions		
Test procedure:	ANSI C63.10 section 11.12.1		
Test mode:	Compliance	Verdict:	PASS
Date(s):	06-Nov-24 - 07-Nov-24	verdict.	PASS
Temperature: 24 °C	Relative Humidity: 42 %	Air Pressure: 1016 hPa	Power: 120 VAC, 60 Hz
Remarks: WIFI	-	-	·

Plot 7.3.7 Radiated emission measurements from 30 to 1000 MHz at the low carrier frequency







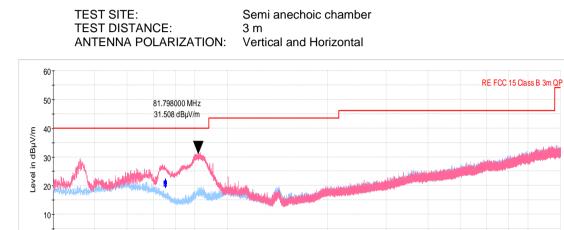


0∔ 30M

50 60

Test specification:	Section 15.247(d) / RSS-247 section 5.5, Radiated spurious emissions		
Test procedure:	ANSI C63.10 section 11.12.1		
Test mode:	Compliance	Verdict:	PASS
Date(s):	06-Nov-24 - 07-Nov-24	veraici.	FA33
Temperature: 24 °C	Relative Humidity: 42 %	Air Pressure: 1016 hPa	Power: 120 VAC, 60 Hz
Remarks: WIFI			





200

Frequency in Hz

300

400

500

800

1G

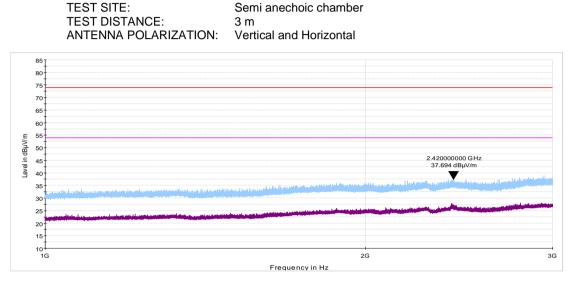
100M

80



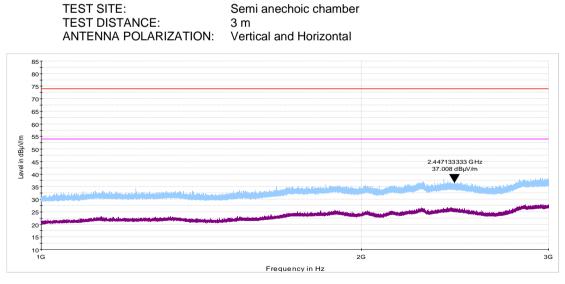
Test specification:	Section 15.247(d) / RSS-247 section 5.5, Radiated spurious emissions		
Test procedure:	ANSI C63.10 section 11.12.1		
Test mode:	Compliance	Verdict:	PASS
Date(s):	06-Nov-24 - 07-Nov-24	verdict:	PA33
Temperature: 24 °C	Relative Humidity: 42 %	Air Pressure: 1016 hPa	Power: 120 VAC, 60 Hz
Remarks: WIFI			

### Plot 7.3.10 Radiated emission measurements from 1000 to 3000 MHz at the low carrier frequency



With filter HL 4338 (Stop band 2170-3000 MHz was investigated in the band edge emission tests)

### Plot 7.3.11 Radiated emission measurements from 1000 to 3000 MHz at the mid carrier frequency



\*With filter HL 4338 (Stop band 2170-3000 MHz was investigated in the badedge emission tests)

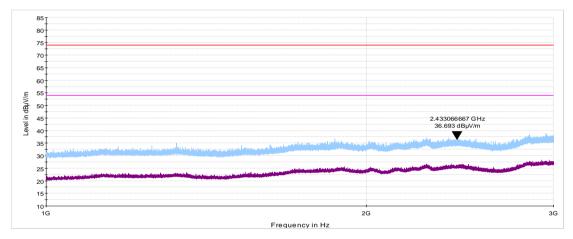
Date of Issue: 5-Jan-25



Test specification:	Section 15.247(d) / RSS-247 section 5.5, Radiated spurious emissions		
Test procedure:	ANSI C63.10 section 11.12.1		
Test mode:	Compliance	Verdict:	PASS
Date(s):	06-Nov-24 - 07-Nov-24		
Temperature: 24 °C	Relative Humidity: 42 %	Air Pressure: 1016 hPa	Power: 120 VAC, 60 Hz
Remarks: WIFI			

## Plot 7.3.12 Radiated emission measurements from 1000 to 3000 MHz at the high carrier frequency

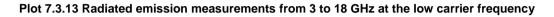
TEST SITE: Semi anechoic chamber TEST DISTANCE: 3 m ANTENNA POLARIZATION: Vertical and Horizontal

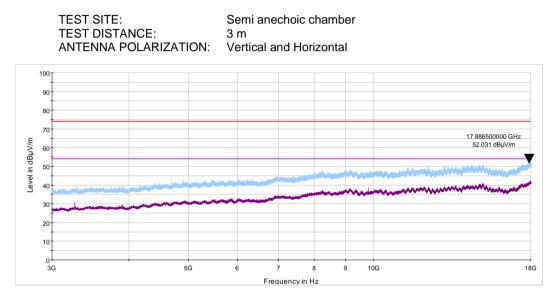


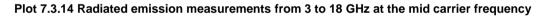
\*With filter HL 4338 (Stop band 2170-3000 MHz was investigated in the badedge emission tests)



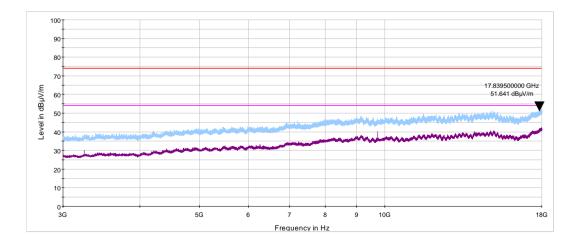
Test specification:	Section 15.247(d) / RSS-247 section 5.5, Radiated spurious emissions		
Test procedure:	ANSI C63.10 section 11.12.1		
Test mode:	Compliance	Verdict:	PASS
Date(s):	06-Nov-24 - 07-Nov-24		
Temperature: 24 °C	Relative Humidity: 42 %	Air Pressure: 1016 hPa	Power: 120 VAC, 60 Hz
Remarks: WIFI			







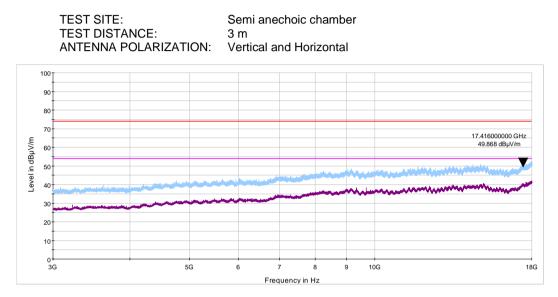
TEST SITE:	Semi anechoic chamber
TEST DISTANCE:	3 m
ANTENNA POLARIZATION:	Vertical and Horizontal





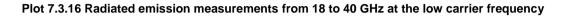
Test specification:	Section 15.247(d) / RSS-247 section 5.5, Radiated spurious emissions		
Test procedure:	ANSI C63.10 section 11.12.1		
Test mode:	Compliance	Verdict:	PASS
Date(s):	06-Nov-24 - 07-Nov-24		
Temperature: 24 °C	Relative Humidity: 42 %	Air Pressure: 1016 hPa	Power: 120 VAC, 60 Hz
Remarks: WIFI	-		·

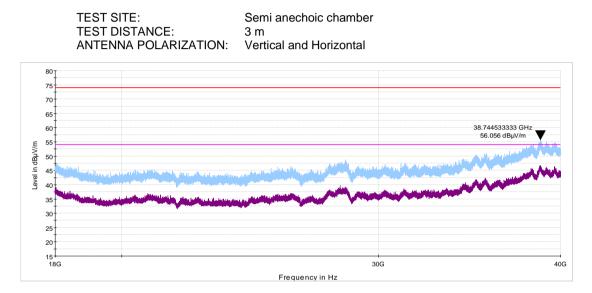
# Plot 7.3.15 Radiated emission measurements 3 to 18 GHz at the high carrier frequency

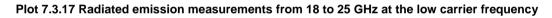


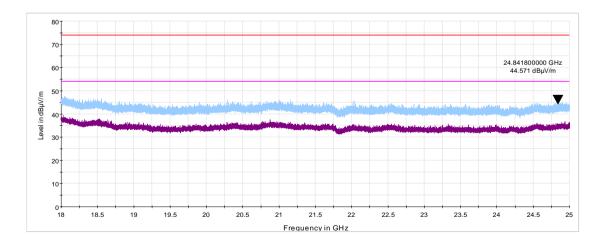


Test specification:	Section 15.247(d) / RSS-247 section 5.5, Radiated spurious emissions		
Test procedure:	ANSI C63.10 section 11.12.1		
Test mode:	Compliance	Verdict:	PASS
Date(s):	06-Nov-24 - 07-Nov-24		
Temperature: 24 °C	Relative Humidity: 42 %	Air Pressure: 1016 hPa	Power: 120 VAC, 60 Hz
Remarks: WIFI			







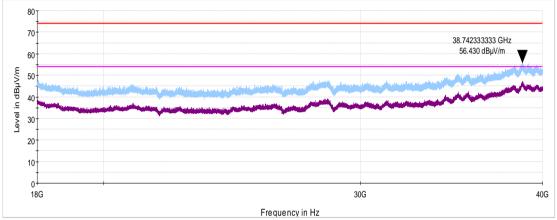




Test specification:	Section 15.247(d) / RSS-247 section 5.5, Radiated spurious emissions		
Test procedure:	ANSI C63.10 section 11.12.1		
Test mode:	Compliance	Verdict: PASS	PASS
Date(s):	06-Nov-24 - 07-Nov-24	verdict:	PASS
Temperature: 24 °C	Relative Humidity: 42 %	Air Pressure: 1016 hPa	Power: 120 VAC, 60 Hz
Remarks: WIFI			

Plot 7.3.18 Radiated emission measurements from 18 to 40 GHz at the mid carrier frequency





Plot 7.3.19 Radiated emission measurements from 18 to 25 GHz at the mid carrier frequency

