



RADIO TEST REPORT

FCC ID : RAXWN8711
Equipment : Wireless LAN Network Module
Brand Name : Arcadyan
Model Name : WN8711BTAAC-YA
Applicant : Arcadyan Technology Corporation
No.8, Sec.2, Guangfu Rd.,Hsinchu, 30071 Taiwan
Manufacturer (1) : Arcadyan Technology Corporation
No.8, Sec.2, Guangfu Rd.,Hsinchu, 30071 Taiwan
Manufacturer (2) : ARCADYAN TECHNOLOGY (VIETNAM) CO.,LTD
Land Plot No. D4-5-6, Thang Long Vinh Phuc Industrial Park,
Thien Ke Commune, Binh Xuyen District, Vinh Phuc Province
Vietnam
Standard : 47 CFR FCC Part 15.247

The product was received on Jul. 13, 2023, and testing was started from Jul. 15, 2023 and completed on Jul. 05, 2024. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this variant report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. Hsinchu Laboratory, the test report shall not be reproduced except in full.

Approved by: Sam Chen

Sporton International Inc. Hsinchu Laboratory

No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)



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History of this test report

TEL : 886-3-656-9065
FAX : 886-3-656-9085
Report Template No.: CB-A10_10 Ver1.3

Page Number : 3 of 28
Issued Date : Aug. 26, 2024
Report Version : 01



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.247(a)	DTS Bandwidth	PASS	-
3.2	15.247(b)	Maximum Conducted Output Power	PASS	-
3.3	15.247(e)	Power Spectral Density	PASS	-
3.4	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
3.5	15.247(d)	Emissions in Restricted Frequency Bands	PASS	-

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the chapter "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Sam Chen

Report Producer: Muse Chan



1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
2400-2483.5	b, g, n (HT20)	2412-2462	1-11 [11]
2400-2483.5	n (HT40)	2422-2452	3-9 [7]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	1TX
2.4-2.4835GHz	802.11g	20	1TX
2.4-2.4835GHz	802.11n HT20	20	1TX
2.4-2.4835GHz	802.11n HT40	40	1TX

Note:

- ♦ 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- ♦ 11g, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ BWch is the nominal channel bandwidth.

**1.1.2 Antenna Information**

Ant.	Brand	Model Name	Type	Connector	Gain (dBi)		Cable Length (mm)
					2.4GHz	5GHz	
1	ACON	AEMEE-10000	Dipole	Reversed-SMA	3.24	4.54	Note 1
2	WNC	YSB2022	PIFA	I-PEX	3.1	4.4	-

Note 1:

Dipole Cable	Brand	Model Name	Cable Length (mm)	Cable Loss (dB)		True Gain (dBi)	
				2.4GHz / BT	5GHz	2.4GHz / BT	5GHz
1	ACON	AEC8P-1000001 (Black)	30	0.08	0.12	3.16	4.42
2	ACON	AEC8P-1000003 (Black)	50	0.13	0.19	3.11	4.35
3	ACON	AEC8P-1000005 (Black)	70	0.19	0.27	3.05	4.27
4	ACON	AEC8P-1000007 (Black)	90	0.24	0.35	3.00	4.19
5	ACON	AEC8P-1000009 (Black)	120	0.32	0.46	2.92	4.08
6	ACON	AEC8P-1000011 (Black)	160	0.43	0.62	2.81	3.92
7	ACON	AEC8P-1000013 (Black)	200	0.54	0.77	2.70	3.77
8	ACON	AEC8P-1000015 (Black)	240	0.64	0.93	2.60	3.61
9	ACON	AEC8P-1000017 (Black)	280	0.75	1.08	2.49	3.46
10	ACON	AEC8P-1000019 (Black)	320	0.86	1.24	2.38	3.30
11	ACON	AEC8P-1000021 (Black)	360	0.96	1.39	2.28	3.15
12	ACON	AEC8P-1000023 (Black)	400	1.07	1.54	2.17	3.00
13	ACON	AEC8P-1000025 (Black)	450	1.21	1.74	2.03	2.80
14	ACON	AEC8P-1000027 (Black)	500	1.34	1.93	1.90	2.61

Note 2: Dipole Antenna collocate with 14 set cables selling, only the highest gain antenna “cable 1” was tested and recorded in the report.

Note 3: PIFA Antenna is only for EUT 2 use.

Note 4: The above information was declared by manufacturer.

Note 5: The EUT has one antenna.

For WLAN 2.4GHz Function**IEEE 802.11b/g/n (1TX/1RX):**

Port 1 can be used as transmitting/receiving antenna.

Port 1 could transmit/receive simultaneously.

For WLAN 5GHz Function**IEEE 802.11a/n/ac (1TX/1RX):**

Port 1 can be used as transmitting/receiving antenna.

Port 1 could transmit/receive simultaneously.

For Bluetooth function (1TX/1RX):

Port 1 can be used as transmitting/receiving antenna.

Port 1 could transmit/receive simultaneously.

**1.1.3 Mode Test Duty Cycle**

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11b	0.998	0.01	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11g	0.985	0.07	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
HT20	0.983	0.07	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
HT40	0.969	0.14	947.5u	3k

Note:

- ♦ DC is Duty Cycle.
- ♦ DCF is Duty Cycle Factor.

1.1.4 EUT Operational Condition

EUT Power Type	From host system		
Beamforming Function	☐ With beamforming	☒ Without beamforming	
Function	☒ Point-to-multipoint	☐ Point-to-point	
Test Software Version	MTool V3.0.0.3		
Operating frequency of CPU	1GHz		
Rating	3.7V, 4.21W		

Note: The above information was declared by manufacturer.

1.1.5 Table for EUT Supports Function

Function	Supports type
AP	Master
Slave	Slave without radar detection

Note 1: AP Mode and Slave Mode were tested and their data were recorded in this report.

Note 2: The above information was declared by manufacturer.

1.1.6 Table for DDR Detail Information

Items		DDR
Source		
Main	Brand	SAMSUNG
	Model	K4B2G1646F-BYMA
	Capacity	256MB
Second	Brand	WINBOND
	Model	W632GU6NB-11
	Capacity	256MB

Note: The above information was declared by manufacturer.

**1.1.7 Table for EUT Information**

EUT	DDR	Equipped Antenna
1	Main	Dipole
2	Second	Dipole, PIFA

1.1.8 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: FR770523-13AA

Below is the table for the change of the product with respect to the original one.

Modifications	Performance Checking
1. Adding second source DDR (Brand name: WINBOND / Model name: W632GU6NB-11).	Emissions in Restricted Frequency Bands
2. Add a new type PIFA antenna for EUT 2.	1. DTS Bandwidth 2. Maximum Conducted Output Power 3. Power Spectral Density 4. Emissions in Non-restricted Frequency Bands 5. Emissions in Restricted Frequency Bands
3. Adding Manufacturer (Company name: ARCADYAN TECHNOLOGY (VIETNAM) CO.,LTD / Company address: Land Plot No. D4-5-6, Thang Long Vinh Phuc Industrial Park, Thien Ke Commune, Binh Xuyen District, Vinh Phuc Province Vietnam).	After evaluating, it does not affect the test.



1.2 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR FCC Part 15.247
- ♦ ANSI C63.10-2013

The following reference test guidance is not within the scope of accreditation of TAF.

- ♦ FCC KDB 558074 D01 v05r02
- ♦ FCC KDB 414788 D01 v01r01

1.3 Testing Location Information

Testing Location Information	
Test Lab. : Sporton International Inc. Hsinchu Laboratory	
Hsinchu	ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)
(TAF: 3787)	TEL: 886-3-656-9065 FAX: 886-3-656-9085
	Test site Designation No. TW3787 with FCC.
	Conformity Assessment Body Identifier (CABID) TW3787 with ISED.

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH02-CB	Brian Sun	24.7~24.8 / 63~65	Jun. 27, 2024~ Jul. 05, 2024
Radiated Below 1GHz	03CH05-CB	Stim Sung	24.5~25.6 / 56~59	Jul. 15, 2023
	03CH04-CB	Gordon Hung	21.9~22.4 / 55~58	Jun. 20, 2024
Radiated Above 1GHz	03CH01-CB	Paul Hu	22~23 / 55~58	Jun. 19, 2024~ Jul. 05, 2024
	03CH04-CB		21.8~22.9 / 55~58	

Note: The tested sample of PIFA Antenna was received on Jun. 13, 2024.

1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Test Date: Date Before May 28, 2024

Test Items	Uncertainty	Remark
Radiated Emission (9kHz ~ 30MHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.1 dB	Confidence levels of 95%

Test Date: Date After May 27, 2024

Test Items	Uncertainty	Remark
Radiated Emission (9kHz ~ 30MHz)	4.1 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	4.2 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.2 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.0 dB	Confidence levels of 95%
Conducted Emission	3.1 dB	Confidence levels of 95%
Output Power Measurement	0.8 dB	Confidence levels of 95%
Power Density Measurement	3.1 dB	Confidence levels of 95%
Bandwidth Measurement	2.1 %	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

Mode
802.11b_Nss1,(1Mbps)_1TX
2412MHz
2417MHz
2437MHz
2457MHz
2462MHz
802.11g_Nss1,(6Mbps)_1TX
2412MHz
2417MHz
2437MHz
2457MHz
2462MHz
802.11n HT20_Nss1,(MCS0)_1TX
2412MHz
2417MHz
2437MHz
2457MHz
2462MHz
802.11n HT40_Nss1,(MCS0)_1TX
2422MHz
2427MHz
2437MHz
2452MHz

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	DTS Bandwidth Maximum Conducted Output Power Power Spectral Density Emissions in Non-restricted Frequency Bands
Test Condition	Conducted measurement at transmit chains
1	EUT 2 with PIFA antenna

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emissions in Restricted Frequency Bands
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	Normal Link
	1. The EUT was performed at X axis, Y axis and Z axis position for Emissions in Restricted Frequency Bands above 1GHz, and the worst case was found at X axis. So the measurement will follow this same test configuration.
	2. The EUT performed the test at (2.4GHz+Bluetooth) mode and (5GHz+Bluetooth) mode; the worst case was found at (5GHz+Bluetooth) mode. Thus, the measurement will follow this same test configuration.
	3. The EUT performed the test at Master mode and Slave mode; the worst case was found at Master mode. Thus, the measurement will follow this same test configuration.
1	AP Mode_EUT 2 in X axis (5GHz+Bluetooth Master) with Dipole antenna + cable 1
2	AP Mode_EUT 2 in X axis (5GHz+Bluetooth Master) with PIFA antenna
Operating Mode > 1GHz	CTX
	The EUT was performed at X axis, Y axis and Z axis position, and the worst case was found at Y axis. So the measurement will follow this same test configuration.
1	EUT 2 in Y axis with PIFA antenna

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 2.4GHz + Bluetooth with Dipole
2	WLAN 5GHz + Bluetooth with Dipole
Refer to Sporton Test Report No.: FA770523-23 for Co-location RF Exposure Evaluation.	



2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link Mode:

During the test, the EUT operation to normal function.

2.4 Accessories

N/A

2.5 Support Equipment

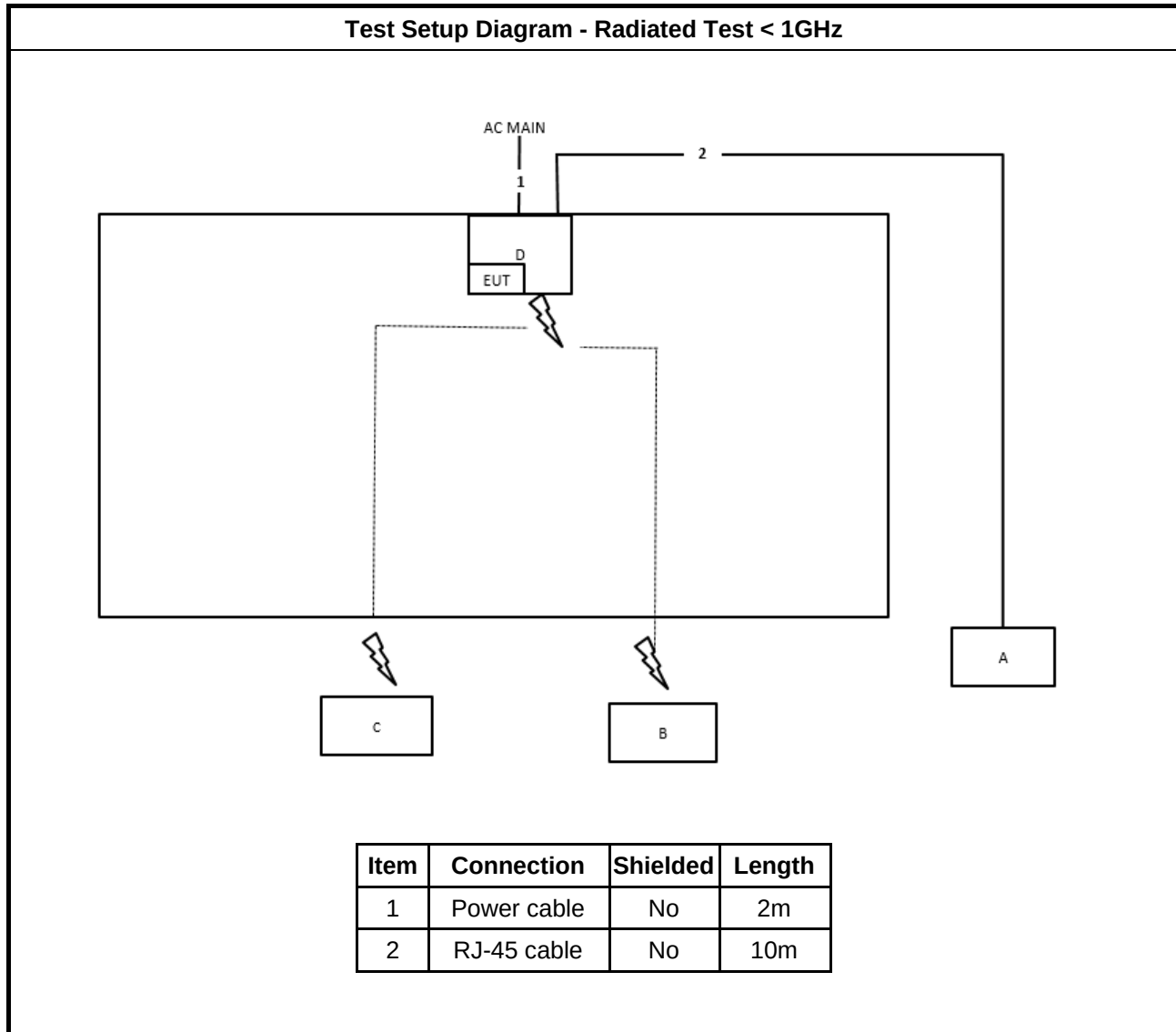
For Radiated (below 1GHz):

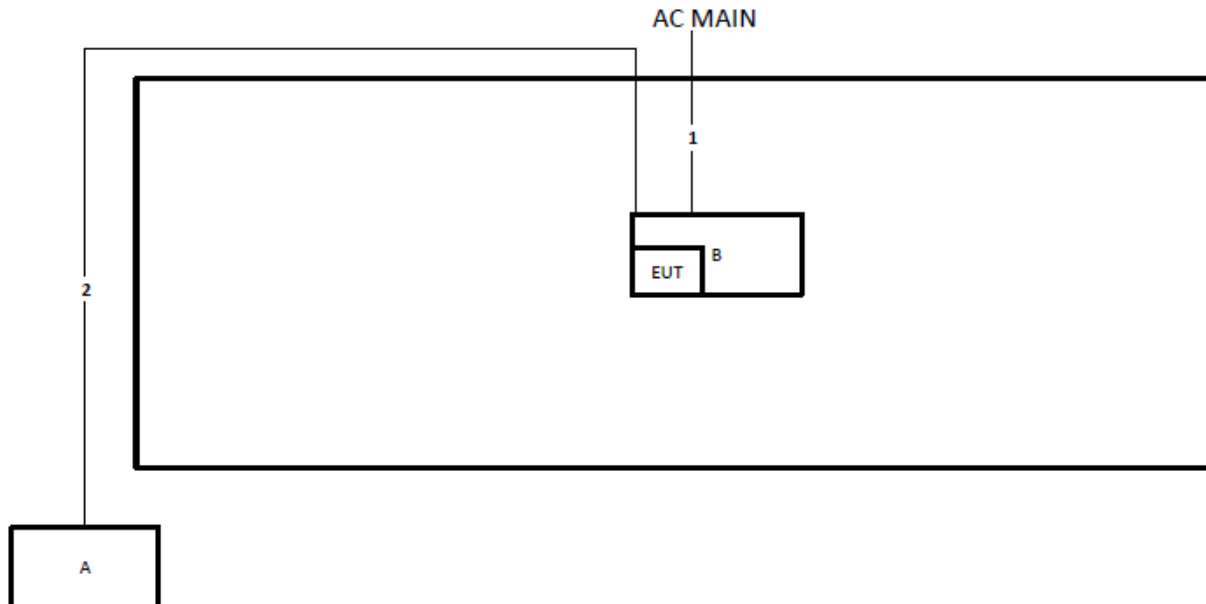
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	LAN NB	DELL	E4300	N/A
B	5G NB	DELL	E4300	N/A
C	BT Speaker	MARUS	MSK06C-RD	N/A
D	Fixture 1	Arcadyan	WN9711BTAAC-YA Test Jig	N/A

For Radiated (above 1GHz) and RF Conducted:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	Fixture	Arcadyan	WN9711BTAAC-YA Test Jig	N/A

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test > 1GHz


Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	RJ-45 cable	No	10m

3 Transmitter Test Result

3.1 DTS Bandwidth

3.1.1 6dB Bandwidth Limit

6dB Bandwidth Limit
Systems using digital modulation techniques:
6 dB bandwidth $\geq$ 500 kHz.

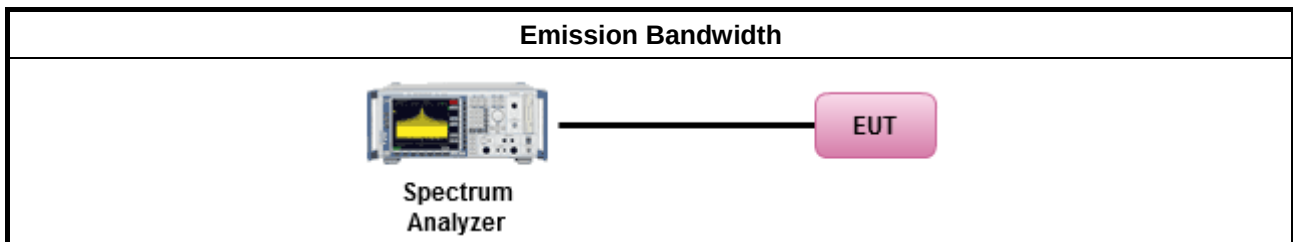
3.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

Test Method
For the emission bandwidth shall be measured using one of the options below:
☒ Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.1 Option 1 for 6 dB bandwidth measurement.
☐ Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.2 Option 2 for 6 dB bandwidth measurement.
☐ Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.

3.1.4 Test Setup



3.1.5 Test Result of Emission Bandwidth

Refer as Appendix A



3.2 Maximum Conducted Output Power

3.2.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
	▪ If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)
	▪ Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm
	▪ Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	▪ Smart antenna system (SAS):
	- Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	- Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	- Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dB dBm
P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

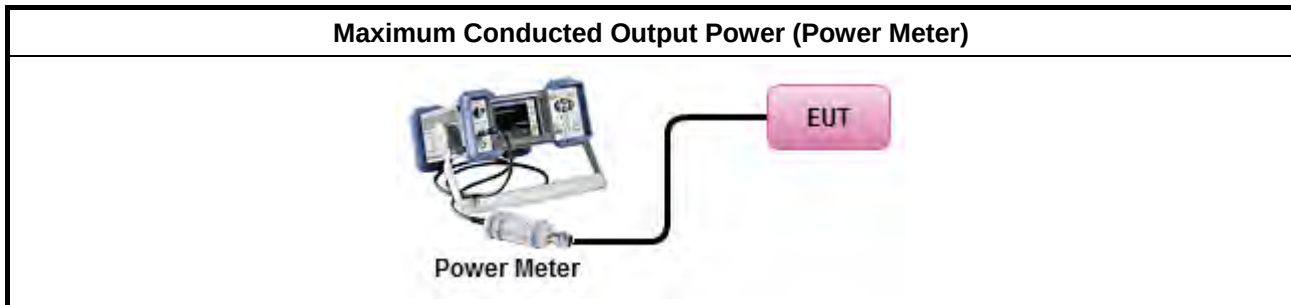
3.2.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

**3.2.3 Test Procedures**

Test Method	
▪ Maximum Peak Conducted Output Power	
☐	Refer as FCC KDB 558074, clause 8.3.1.1 & C63.10 clause 11.9.1.1 (RBW ≥ EBW method).
☐	Refer as FCC KDB 558074, clause 8.3.1.3 & C63.10 clause 11.9.1.3 (peak power meter).
▪ Maximum Conducted Output Power	
[duty cycle ≥ 98% or external video / power trigger]	
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.2 Method AVGSA-1.
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.3 Method AVGSA-1A. (alternative)
duty cycle < 98% and average over on/off periods with duty factor	
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.4 Method AVGSA-2.
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.5 Method AVGSA-2A (alternative)
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.6 Method AVGSA-3
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.7 Method AVGSA-3A (alternative)
Measurement using a power meter (PM)	
☐	Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.1 Method AVGPM (using an RF average power meter).
☒	Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.2 Method AVGPM-G (using an gate RF average power meter).
▪ For conducted measurement.	
▪ If the EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.	
▪ If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$	

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Refer as Appendix B



3.3 Power Spectral Density

3.3.1 Power Spectral Density Limit

Power Spectral Density Limit
▪ Power Spectral Density (PSD) ≤ 8 dBm/3kHz

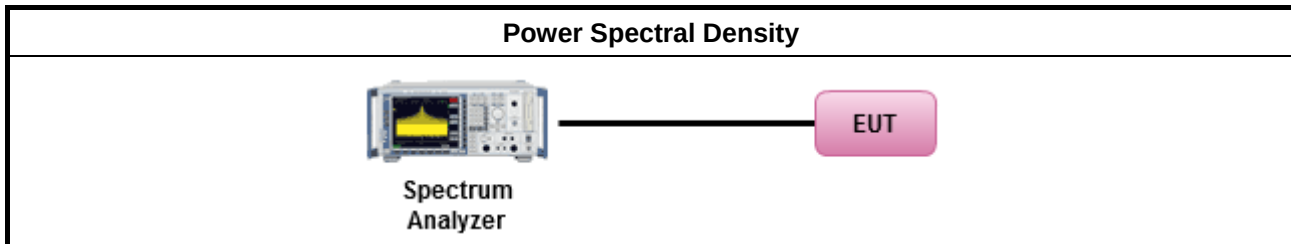
3.3.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

Test Method	
▪ Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).	
☒	Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10 Method Max. PSD.
▪ For conducted measurement.	
▪ If The EUT supports multiple transmit chains using options given below:	
☐	Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.
☐	Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,
☐	Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Refer as Appendix C

3.4 Emissions in Non-restricted Frequency Bands

3.4.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	Limit (dBc)
Peak output power procedure	20
Average output power procedure	30
Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level. Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average PSD level.	

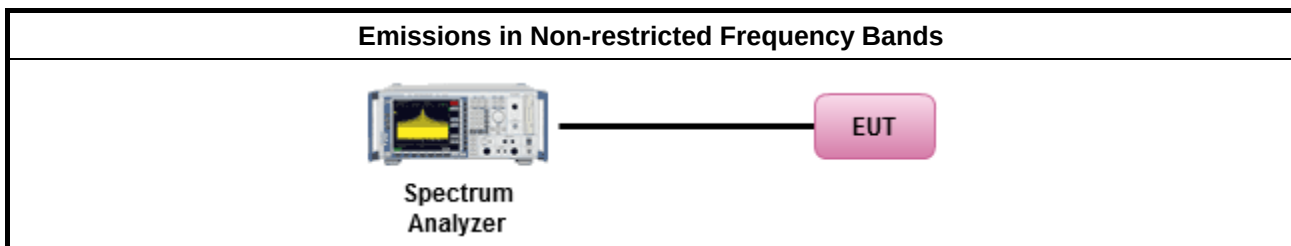
3.4.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.4.3 Test Procedures

Test Method
Refer as FCC KDB 558074, clause 8.5 for unwanted emissions into non-restricted bands.

3.4.4 Test Setup



3.4.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix D

3.5 Emissions in Restricted Frequency Bands

3.5.1 Emissions in Restricted Frequency Bands Limit

Restricted Band Emissions Limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

Note 3: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m.

3.5.2 Measuring Instruments

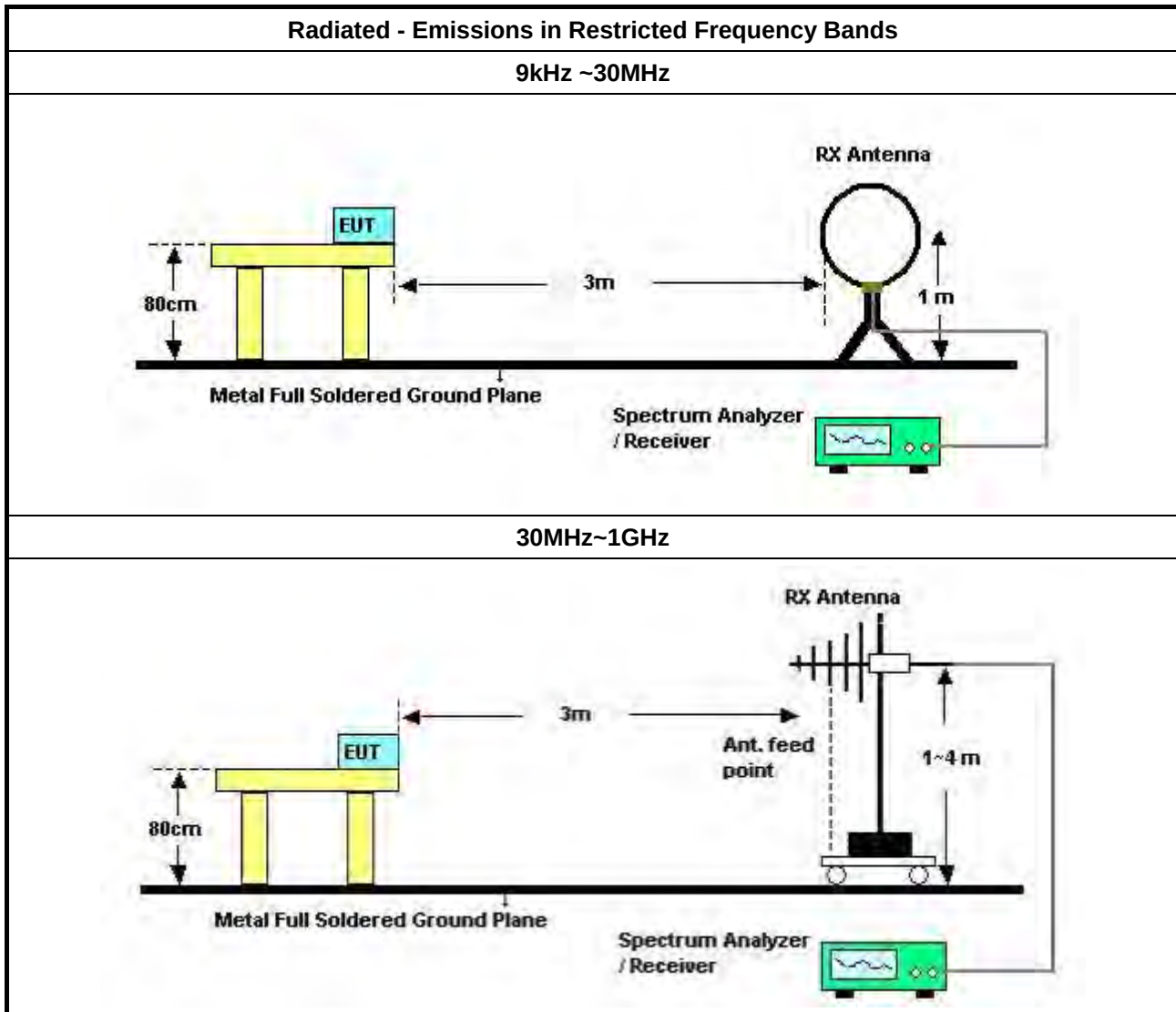
Refer a test equipment and calibration data table in this test report.

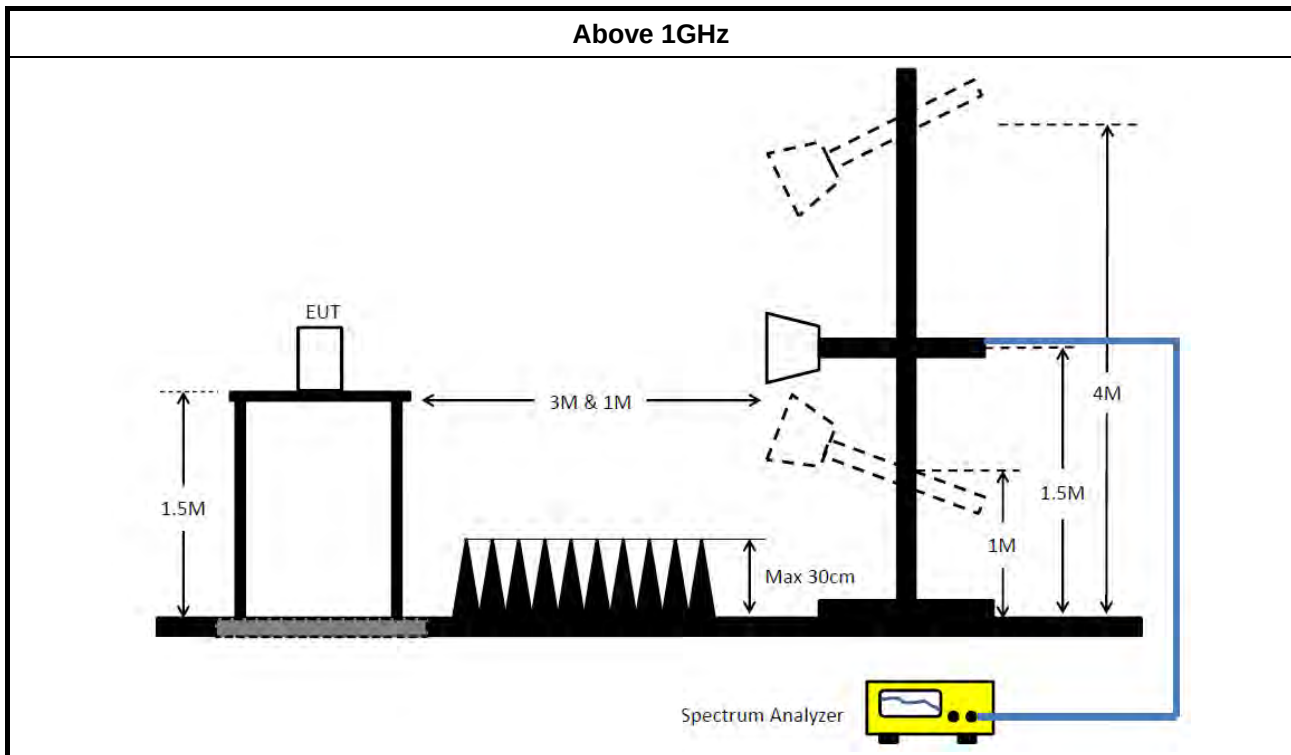


3.5.3 Test Procedures

Test Method	
▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].	
▪ Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
▪ For the transmitter unwanted emissions shall be measured using following options below:	
	▪ Refer as FCC KDB 558074, clause 8.6 for unwanted emissions into restricted bands.
	☐ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.1(trace averaging for duty cycle $\geq 98\%$).
	☐ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.2(trace averaging + duty factor).
	☒ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.3(Reduced VBW $\geq 1/T$).
	☐ Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW $\geq 1/T$, where T is pulse time.
	☐ Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
	☒ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.4 measurement procedure peak limit.
▪ For the transmitter band-edge emissions shall be measured using following options below:	
	▪ Refer as FCC KDB 558074 clause 8.7 & C63.10 clause 11.13.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.
	▪ Refer as FCC KDB 558074, clause 8.7 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements.
	▪ Refer as FCC KDB 558074, clause 8.7 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).
	▪ For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB
	▪ For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.

3.5.4 Test Setup





3.5.5 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Antenna factor (AF) + Cable loss (CL) + Read level (Raw) - Preamp factor (PA)(if applicable) = Level.

3.5.6 Emissions in Restricted Frequency Bands (Below 30MHz)

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to KDB414788 Radiated Test Site, and the result came out very similar.

All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10th harmonic or 40 GHz, whichever is appropriate.

3.5.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix E



4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Loop Antenna	Teseq	HLA 6120	31244	9kHz - 30 MHz	Mar. 23, 2023	Mar. 22, 2024	Radiation (03CH05-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz ~ 1 GHz	Aug. 03, 2022	Aug. 02, 2023	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 24, 2023	Mar. 23, 2024	Radiation (03CH05-CB)
Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	May 03, 2023	May 02, 2024	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Apr. 18, 2023	Apr. 17, 2024	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 13, 2023	Jun. 12, 2024	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH05-CB)
Loop Antenna	Teseq	HLA 6121	65417	9kHz - 30 MHz	Oct. 13, 2023	Oct. 12, 2024	Radiation (03CH05-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH04-CB	30 MHz ~ 1 GHz	Aug. 01, 2023	Jul. 31, 2024	Radiation (03CH04-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH04-CB	1GHz ~18GHz 3m	Feb. 22, 2024	Feb. 21, 2025	Radiation (03CH04-CB)
BILOG ANTENNA with 6 dB attenuator	Schaffner & EMCI	CBL6112B & N-6-06	22021&AT-N06 07	30MHz ~ 1GHz	Oct. 07, 2023	Oct. 06, 2024	Radiation (03CH04-CB)
Horn Antenna	ETS · Lindgren	3115	00143147	750MHz~18GHz	Oct. 04, 2023	Oct. 03, 2024	Radiation (03CH04-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 04, 2023	Sep. 03, 2024	Radiation (03CH04-CB)
Pre-Amplifier	EMCI	EMC330N	980391	20MHz ~ 3GHz	May 22, 2024	May 21, 2025	Radiation (03CH04-CB)
Pre-Amplifier	SGH	SGH5265	20211115-1	1~ 26.5GHz	Jan. 17, 2024	Jan. 16, 2025	Radiation (03CH04-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 24, 2023	Nov. 23, 2024	Radiation (03CH04-CB)
Spectrum Analyzer	R&S	FSP40	100142	9kHz~40GHz	Mar. 19, 2024	Mar. 18, 2025	Radiation (03CH04-CB)
EMI Test Receiver	R&S	ESR7	102172	9kHz ~ 7GHz	Oct. 20, 2023	Oct. 19, 2024	Radiation (03CH04-CB)
RF Cable-low	Woken	RG402	Low Cable-03+67	30MHz ~ 1GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH04-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-21	1GHz - 18GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21+67	1GHz - 18GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH04-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Jan. 11, 2024	Jan. 10, 2025	Radiation (03CH04-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH04-CB)
Loop Antenna	Teseq	HLA 6121	65417	9kHz - 30 MHz	Oct. 13, 2023	Oct. 12, 2024	Radiation (03CH01-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH01-CB	1GHz ~18GHz 3m	May 04, 2024	May 03, 2025	Radiation (03CH01-CB)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120D-01816	1GHz~18GHz	Dec. 20, 2023	Dec. 19, 2024	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 04, 2023	Sep. 03, 2024	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02121	1GHz ~ 26.5GHz	May 17, 2024	May 16, 2025	Radiation (03CH01-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 24, 2023	Nov. 23, 2024	Radiation (03CH01-CB)
Signal Analyzer	R&S	FSV3044	101437	10kHz ~ 44GHz	Nov. 28, 2023	Nov. 27, 2024	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16	1 GHz ~ 18 GHz	Nov. 06, 2023	Nov. 05, 2024	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16+17	1 GHz ~ 18 GHz	Nov. 06, 2023	Nov. 05, 2024	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Jan. 11, 2024	Jan. 10, 2025	Radiation (03CH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH02-CB)
Spectrum analyzer	R&S	FSV40	101027	9kHz~40GHz	Aug. 14, 2023	Aug. 13, 2024	Conducted (TH02-CB)
Power Sensor	Anritsu	MA2411B	1126203	300MHz~40GHz	Oct. 19, 2023	Oct. 18, 2024	Conducted (TH02-CB)
Power Meter	Anritsu	ML2495A	1210004	300MHz~40GHz	Oct. 19, 2023	Oct. 18, 2024	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-01	1 GHz ~ 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-02	1 GHz ~ 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-03	1 GHz ~ 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-04	1 GHz ~ 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-05	1 GHz ~ 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH02-CB)
Switch	SPTCB	SP-SWI	SWI-02	1 ~26.5 GHz	Oct. 03, 2023	Oct. 02, 2024	Conducted (TH02-CB)



RADIO TEST REPORT

Report No. : FR770523-23AA

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH02-CB)

Note: Calibration Interval of instruments listed above is one year.

N.C.R. means Non-Calibration required.

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	9.05M	14.498M	14M5G1D	8.05M	12.088M
802.11n HT20_Nss1,(MCS0)_1TX	16.775M	18.164M	18M2D1D	15.375M	17.72M
802.11n HT40_Nss1,(MCS0)_1TX	35.6M	36.351M	36M4D1D	35.35M	36.327M

Max-N dB = Maximum 6dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	8.525M	12.091M
2437MHz	Pass	500k	9.05M	14.498M
2462MHz	Pass	500k	8.05M	12.088M
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-
2437MHz	Pass	500k	16.775M	18.164M
2462MHz	Pass	500k	15.375M	17.72M
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-
2422MHz	Pass	500k	35.35M	36.327M
2452MHz	Pass	500k	35.6M	36.351M

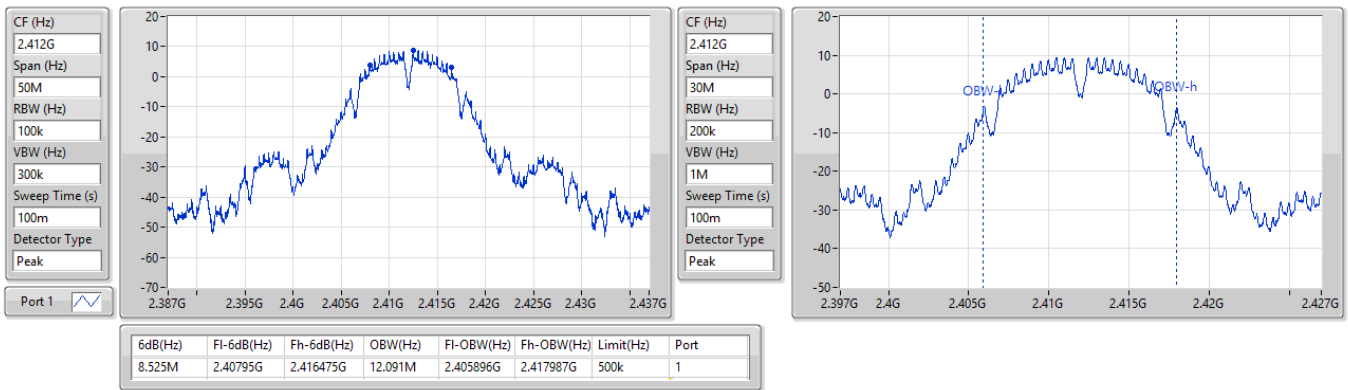
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

EBW

2412MHz

27/06/2024

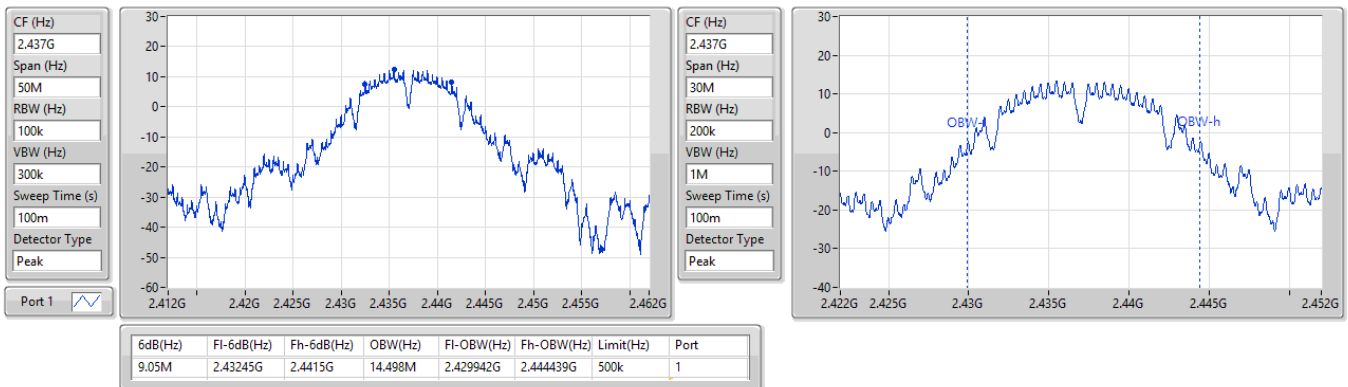


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

EBW

2437MHz

27/06/2024

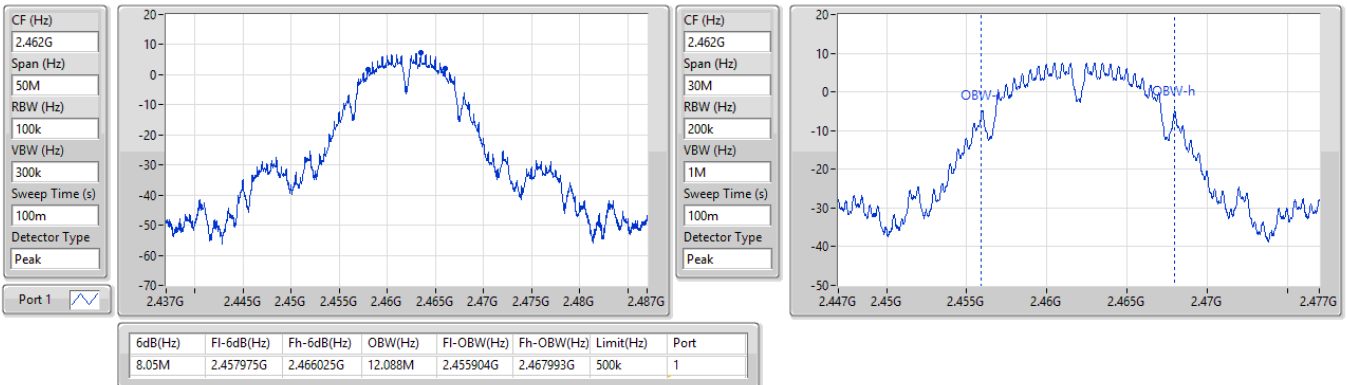


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

EBW

2462MHz

27/06/2024

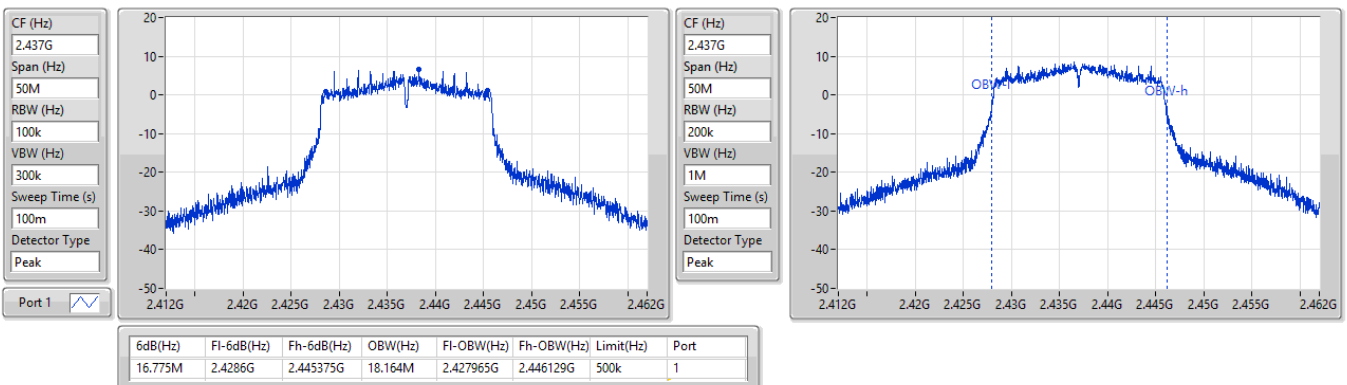


2.4-2.4835GHz_802.11n_HT20_Nss1,(MCS0)_1TX

EBW

2437MHz

27/06/2024

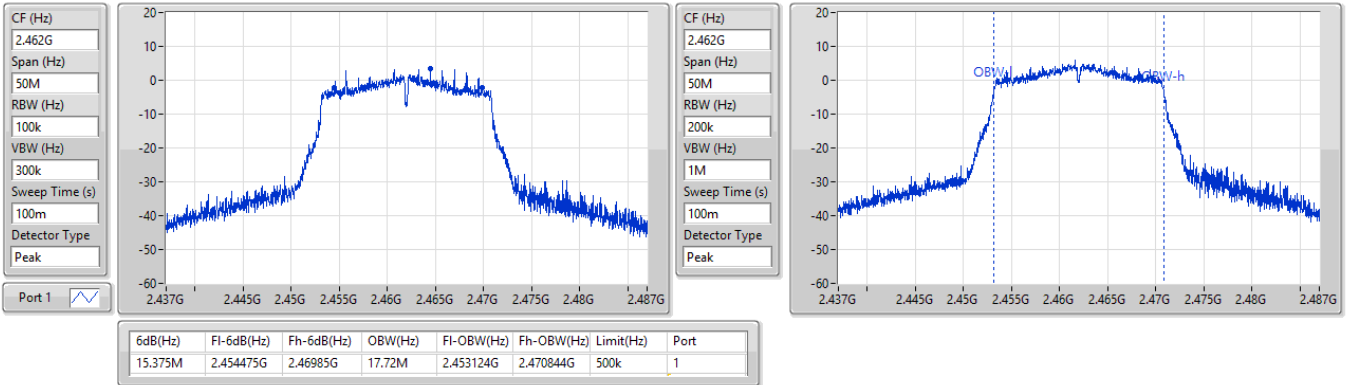


2.4-2.4835GHz_802.11n HT20_Nss1,(MCS0)_1TX

EBW

2462MHz

27/06/2024

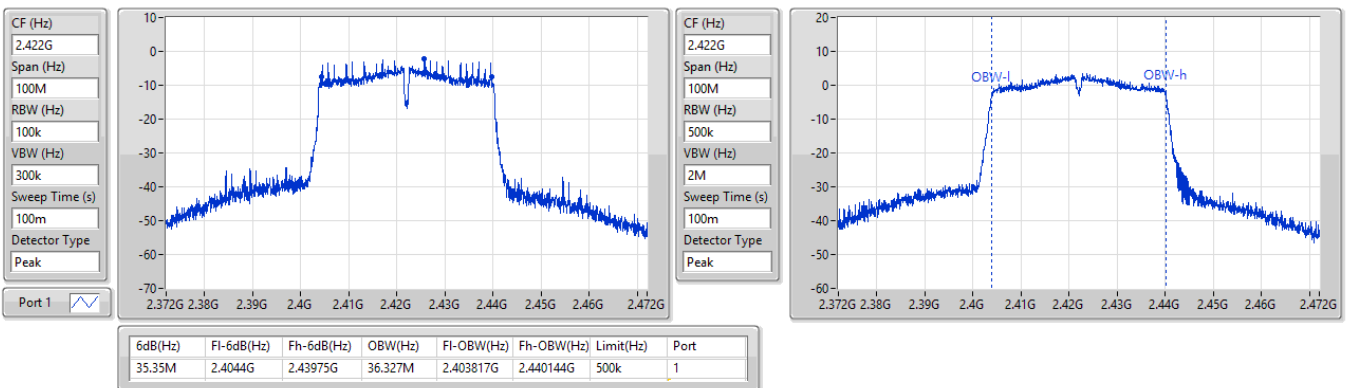


2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX

EBW

2422MHz

27/06/2024

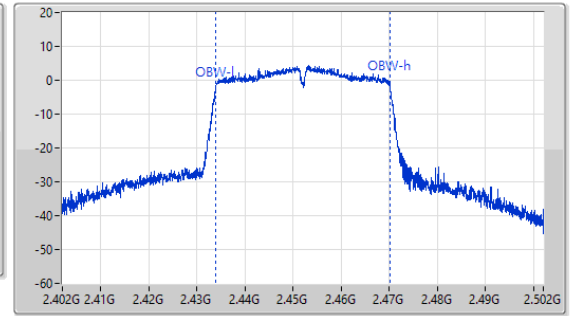
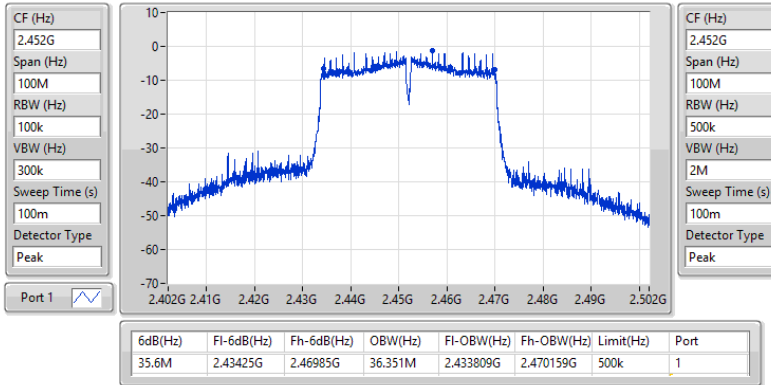


2.4-2.4835GHz_802.11n_HT40_Nss1,(MCS0)_1TX

EBW

2452MHz

27/06/2024





Average Power

Appendix B

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX	21.90	0.15488
802.11g_Nss1,(6Mbps)_1TX	18.37	0.06871
802.11n HT20_Nss1,(MCS0)_1TX	18.31	0.06776
802.11n HT40_Nss1,(MCS0)_1TX	15.75	0.03758

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	3.10	17.78	17.78	30.00
2417MHz	Pass	3.10	18.97	18.97	30.00
2437MHz	Pass	3.10	21.90	21.90	30.00
2457MHz	Pass	3.10	18.26	18.26	30.00
2462MHz	Pass	3.10	16.10	16.10	30.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	3.10	13.91	13.91	30.00
2417MHz	Pass	3.10	16.18	16.18	30.00
2437MHz	Pass	3.10	18.37	18.37	30.00
2457MHz	Pass	3.10	15.40	15.40	30.00
2462MHz	Pass	3.10	14.96	14.96	30.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	3.10	14.40	14.40	30.00
2417MHz	Pass	3.10	16.95	16.95	30.00
2437MHz	Pass	3.10	18.31	18.31	30.00
2457MHz	Pass	3.10	16.11	16.11	30.00
2462MHz	Pass	3.10	14.67	14.67	30.00
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-
2422MHz	Pass	3.10	11.85	11.85	30.00
2427MHz	Pass	3.10	12.63	12.63	30.00
2437MHz	Pass	3.10	15.75	15.75	30.00
2452MHz	Pass	3.10	13.02	13.02	30.00

DG = Directional Gain; Port X = Port X output power

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_1TX	-2.03
802.11n HT20_Nss1,(MCS0)_1TX	-7.07
802.11n HT40_Nss1,(MCS0)_1TX	-15.11

RBW = 3kHz;

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	3.10	-5.80	-5.80	8.00
2437MHz	Pass	3.10	-2.03	-2.03	8.00
2462MHz	Pass	3.10	-8.73	-8.73	8.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2437MHz	Pass	3.10	-7.07	-7.07	8.00
2462MHz	Pass	3.10	-9.28	-9.28	8.00
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-
2422MHz	Pass	3.10	-15.93	-15.93	8.00
2452MHz	Pass	3.10	-15.11	-15.11	8.00

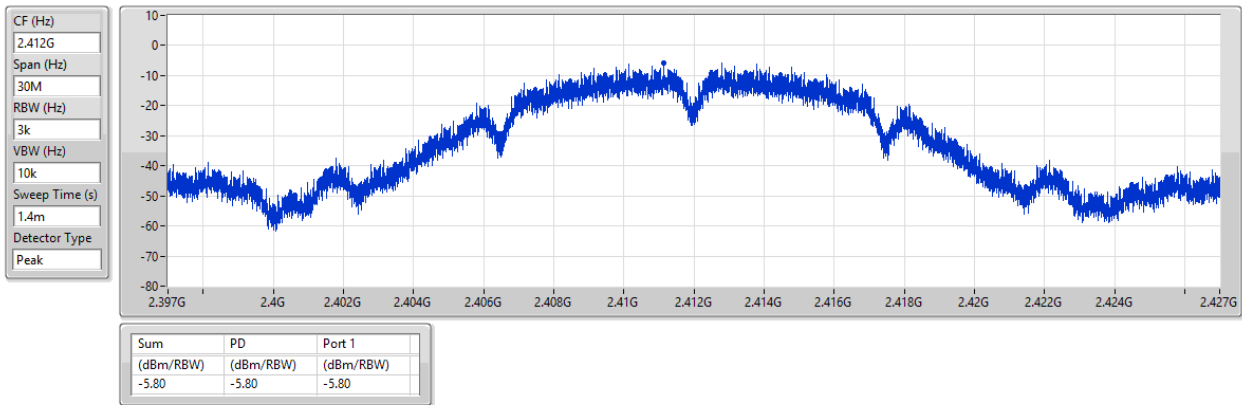
DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

PSD

2412MHz

27/06/2024

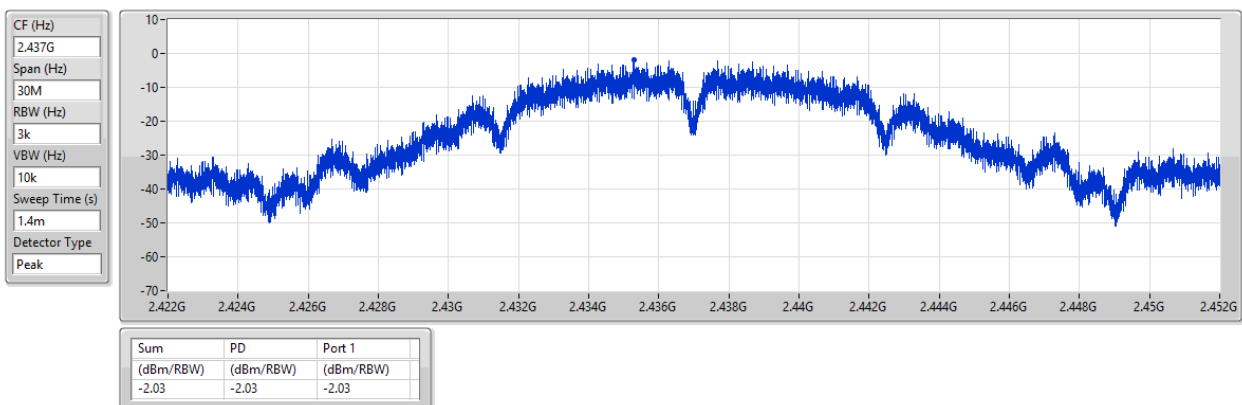


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

PSD

2437MHz

27/06/2024



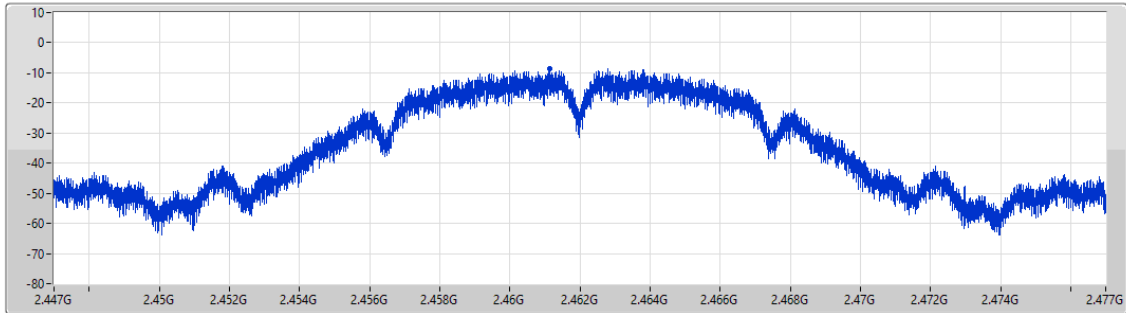
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

PSD

2462MHz

27/06/2024

CF (Hz)
2.462G
Span (Hz)
30M
RBW (Hz)
3k
VBW (Hz)
10k
Sweep Time (s)
1.4m
Detector Type
Peak



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.73	-8.73	-8.73

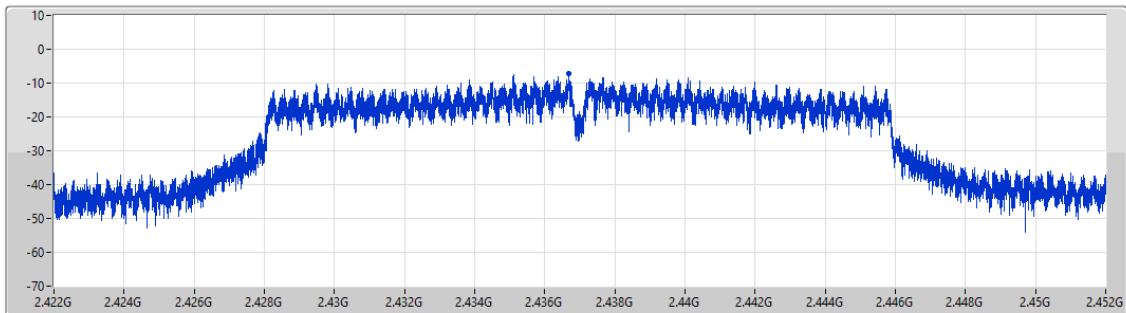
2.4-2.4835GHz_802.11n_HT20_Nss1,(MCS0)_1TX

PSD

2437MHz

27/06/2024

CF (Hz)
2.437G
Span (Hz)
30M
RBW (Hz)
3k
VBW (Hz)
10k
Sweep Time (s)
1.4m
Detector Type
Peak



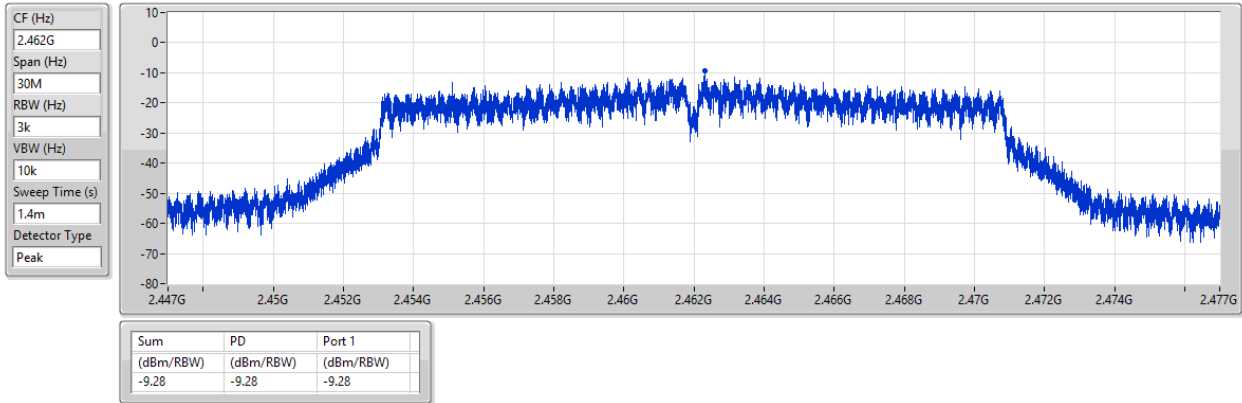
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.07	-7.07	-7.07

2.4-2.4835GHz_802.11n HT20_Nss1,(MCS0)_1TX

PSD

2462MHz

27/06/2024

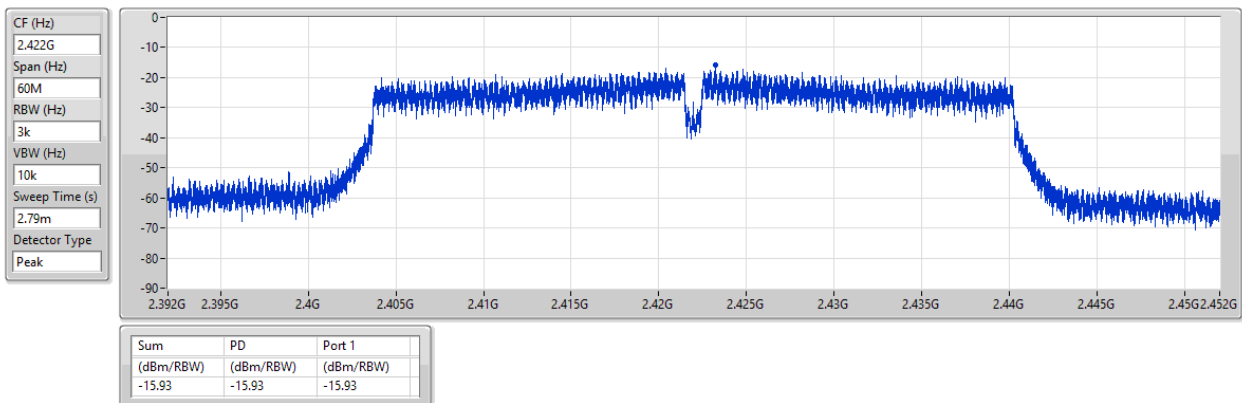


2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX

PSD

2422MHz

27/06/2024

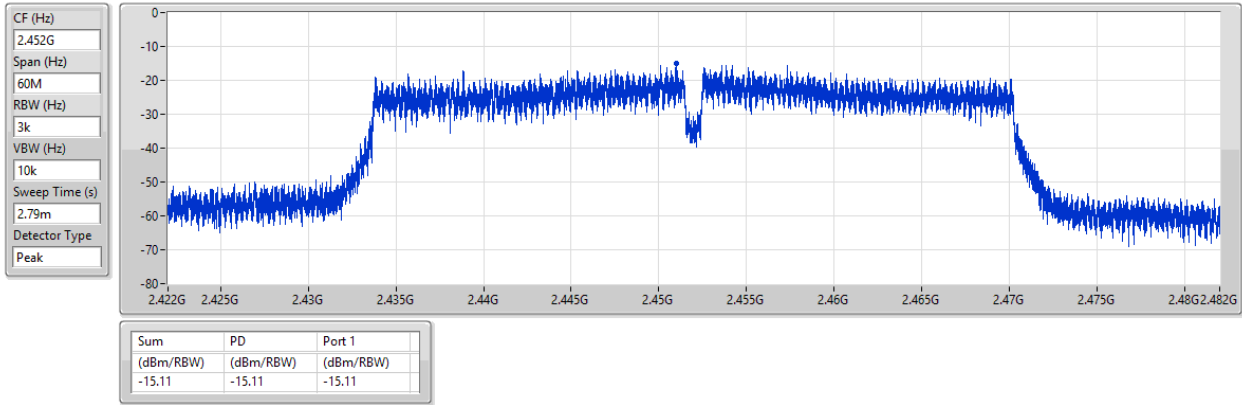


2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX

PSD

2452MHz

27/06/2024





Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	Pass	2.4354G	12.77	-17.23	70.78M	-53.36	2.398G	-24.48	2.4G	-37.86	2.50654G	-50.44	21.74372G	-47.26	1
802.11n HT20_Nss1,(MCS0)_1TX	Pass	2.43941G	7.13	-22.87	1.8975G	-54.80	2.3992G	-38.62	2.4G	-38.72	2.50006G	-48.15	21.76057G	-48.16	1
802.11n HT40_Nss1,(MCS0)_1TX	Pass	2.44075G	1.65	-28.35	1.86315G	-53.61	2.39728G	-36.98	2.4G	-38.05	2.51182G	-53.42	21.64294G	-47.63	1

Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1.(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.4354G	12.77	-17.23	70.78M	-53.36	2.398G	-24.48	2.4G	-37.86	2.50654G	-50.44	21.74372G	-47.26	1
2437MHz	Pass	2.4354G	12.77	-17.23	2.16312G	-54.63	2.4G	-33.21	2.4G	-34.81	2.51062G	-48.98	21.78867G	-47.97	1
2462MHz	Pass	2.4354G	12.77	-17.23	1.71343G	-54.05	2.39184G	-51.71	2.4G	-56.48	2.50006G	-50.91	21.90105G	-46.99	1
802.11n HT20_Nss1.(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2437MHz	Pass	2.43941G	7.13	-22.87	1.8975G	-54.80	2.3992G	-38.62	2.4G	-38.72	2.50006G	-48.15	21.76057G	-48.16	1
2462MHz	Pass	2.43941G	7.13	-22.87	2.01633G	-54.42	2.39152G	-51.75	2.4G	-56.42	2.50134G	-47.68	21.89543G	-46.69	1
802.11n HT40_Nss1.(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.44075G	1.65	-28.35	1.86315G	-53.61	2.39728G	-36.98	2.4G	-38.05	2.51182G	-53.42	21.64294G	-47.63	1
2452MHz	Pass	2.44075G	1.65	-28.35	2.30855G	-54.68	2.39456G	-46.12	2.4G	-47.90	2.50014G	-49.40	21.73829G	-47.13	1

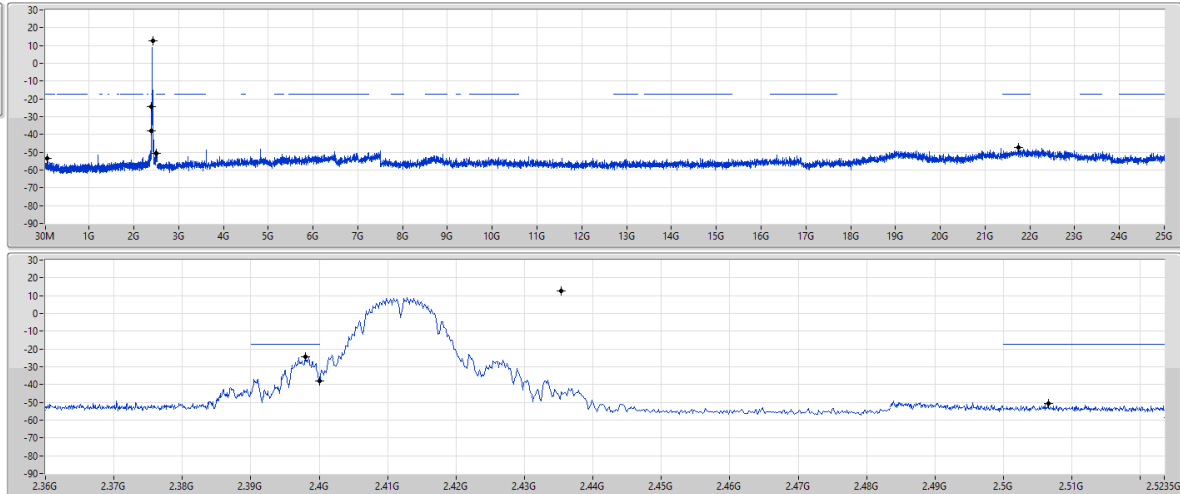
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

CSEndB

2412MHz

27/06/2024

RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.4354G	12.77	-17.23	70.78M	-53.36	2.398G	-24.48	2.4G	-37.86	2.50654G	-50.44	21.74372G	-47.26	1

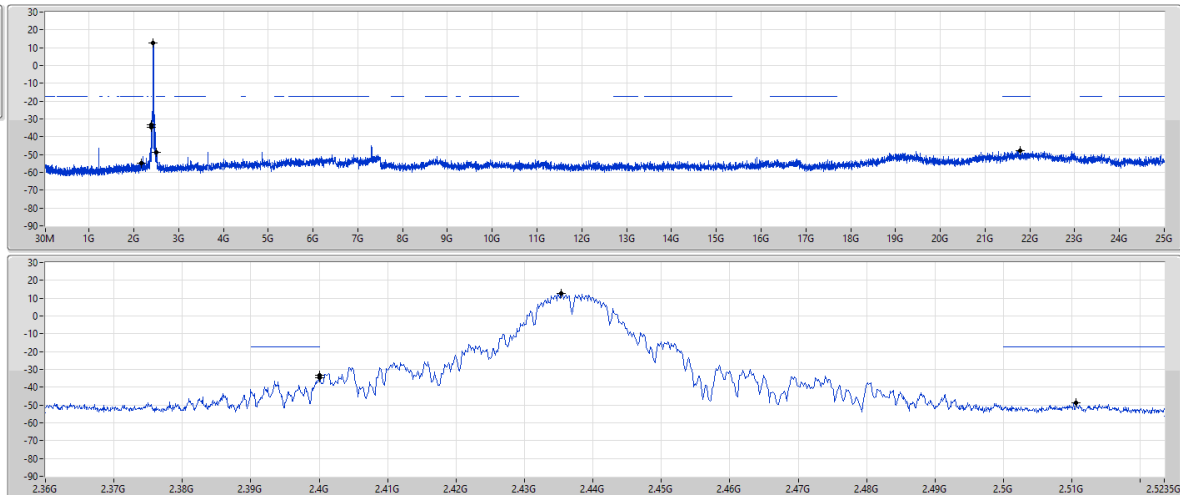
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

CSEndB

2437MHz

27/06/2024

RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.4354G	12.77	-17.23	2.16312G	-54.63	2.4G	-33.21	2.4G	-34.81	2.51062G	-48.98	21.78867G	-47.97	1

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

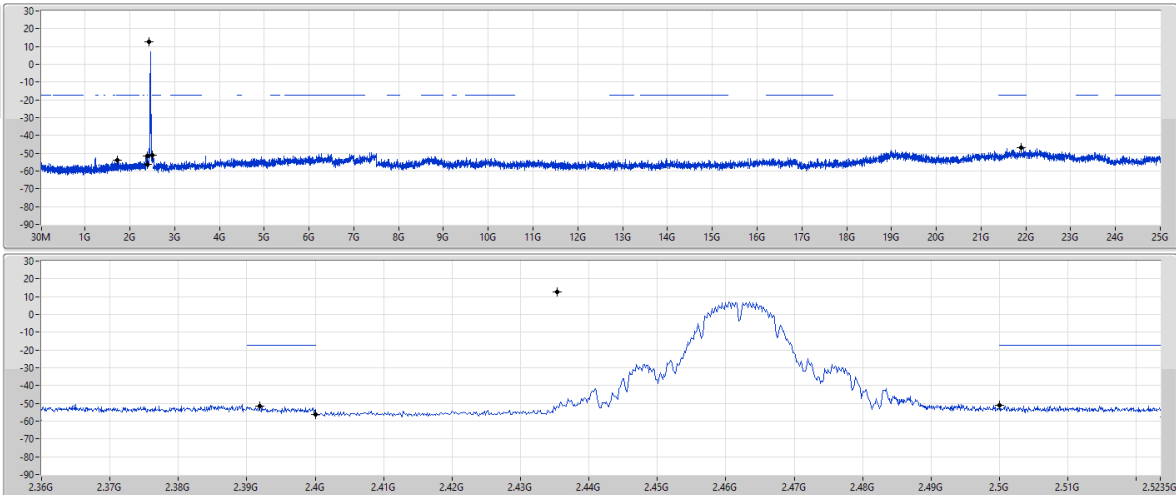
CSEndB

2462MHz

27/06/2024

RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

Port 1



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.4354G	12.77	-17.23	1.71343G	-54.05	2.39184G	-51.71	2.4G	-56.48	2.50006G	-50.91	21.90105G	-46.99	1

2.4-2.4835GHz_802.11n_HT20_Nss1,(MCS0)_1TX

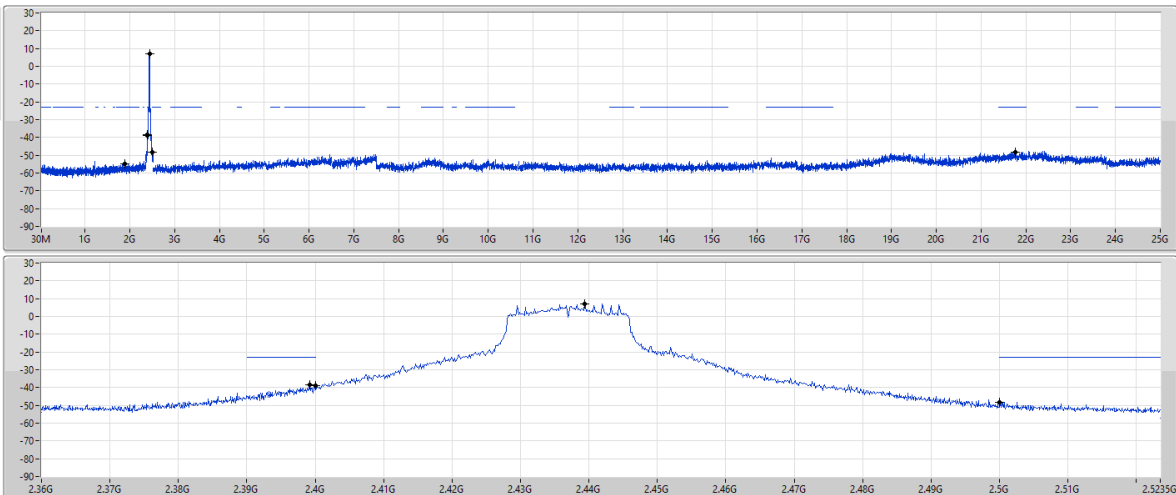
CSEndB

2437MHz

27/06/2024

RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

Port 1

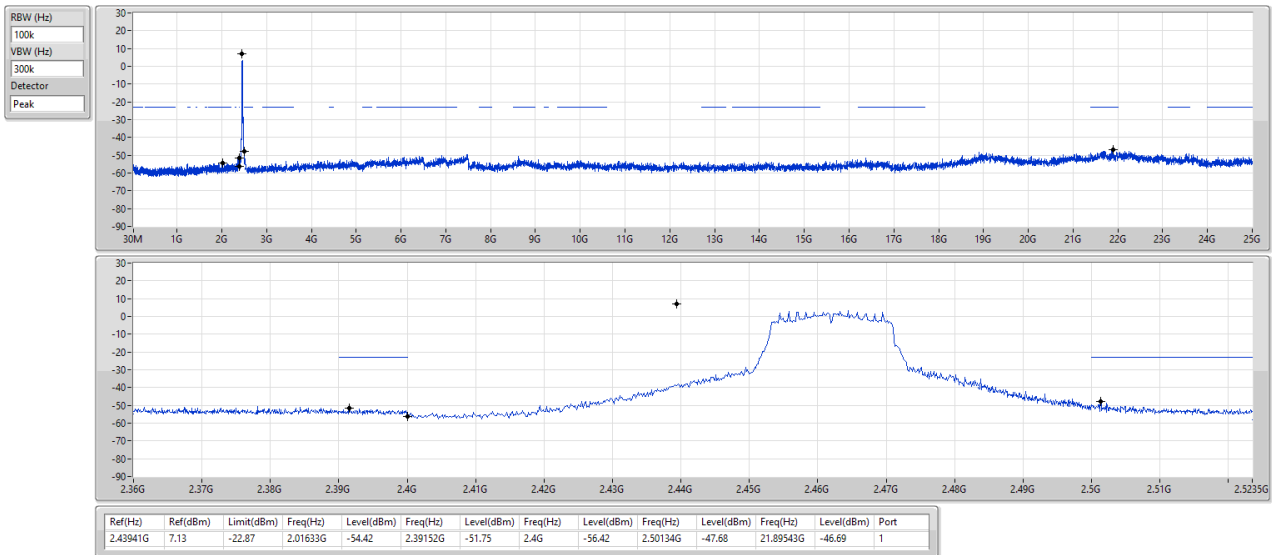


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43941G	7.13	-22.87	1.8975G	-54.80	2.3992G	-38.62	2.4G	-38.72	2.50006G	-48.15	21.76057G	-48.16	1

2.4-2.4835GHz_802.11n HT20_Nss1,(MCS0)_1TX

CSEndB

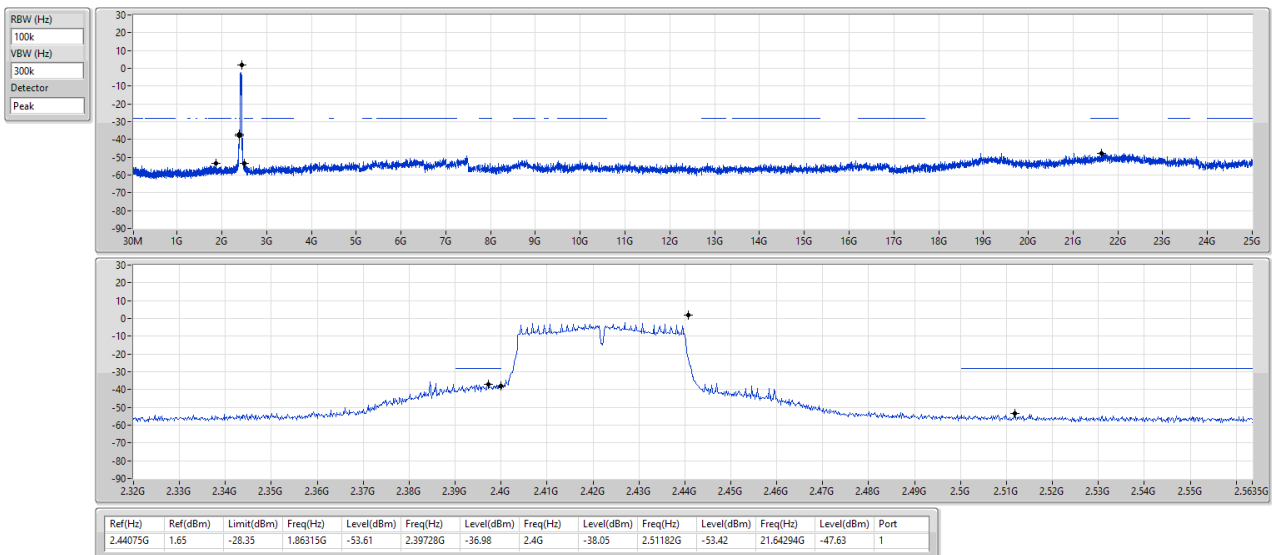
2462MHz



2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX

CSEndB

2422MHz



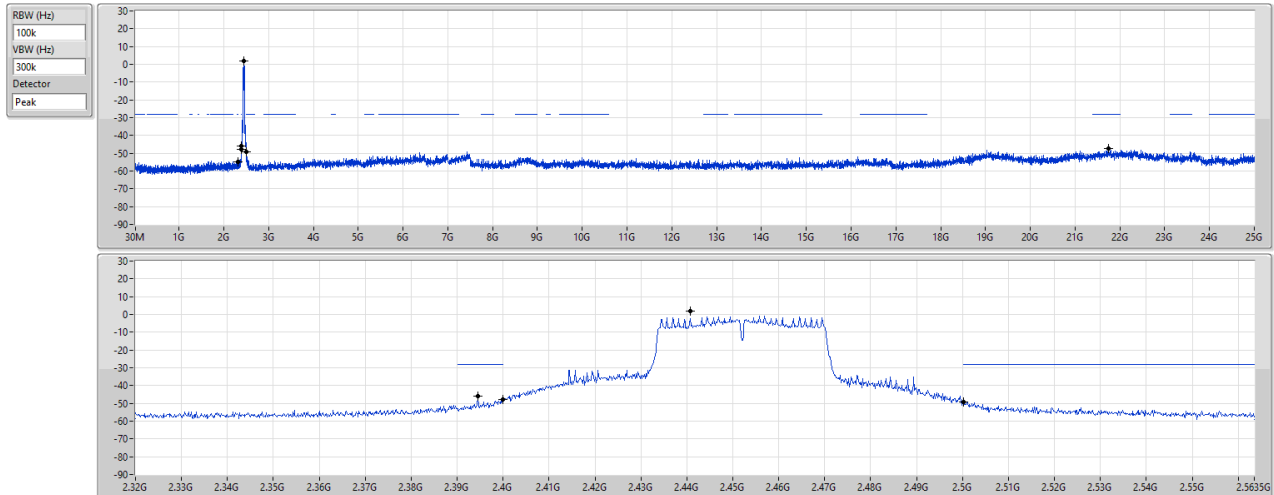
2.4-2.4835GHz_802.11n_HT40_Nss1_(MCS0)_1TX

CSEndB

2452MHz

27/06/2024

Port 1



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44075G	1.65	-28.35	2.30855G	-54.68	2.39456G	-46.12	2.4G	-47.90	2.50014G	-49.40	2.73829G	-47.13	1



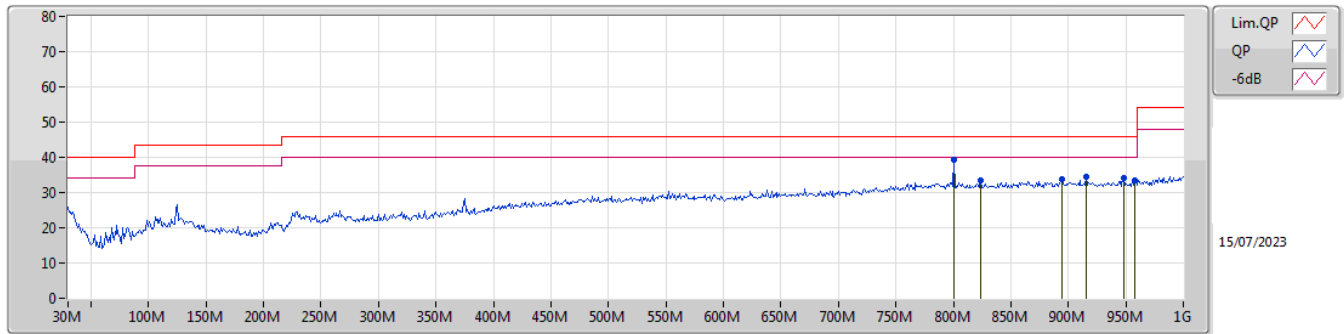
Radiated Emissions below 1GHz

Appendix E.1

Summary

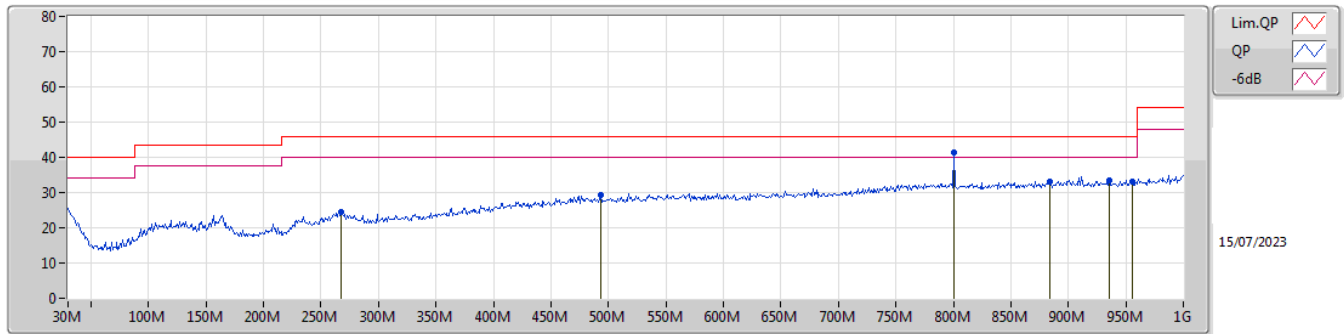
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	PK	800.18M	41.36	46.00	-4.64	Horizontal

Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)		
PK	800.18M	39.42	46.00	-6.58	-1.67	3	Vertical	310	1.00	"Worst"	41.09	25.76	5.20	32.63		
PK	823.46M	33.39	46.00	-12.61	-1.71	3	Vertical	29	1.25	-	35.10	25.63	5.29	32.63		
PK	894.27M	33.86	46.00	-12.14	-0.46	3	Vertical	120	2.00	-	34.32	26.37	5.64	32.47		
PK	915.61M	34.60	46.00	-11.40	-0.43	3	Vertical	80	2.00	-	35.03	26.37	5.68	32.48		
PK	948.59M	34.13	46.00	-11.87	-0.16	3	Vertical	24	1.50	-	34.29	26.70	5.69	32.55		
PK	957.32M	33.43	46.00	-12.57	0.03	3	Vertical	0	1.00	-	33.40	26.82	5.72	32.51		

Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)		
PK	267.65M	24.50	46.00	-21.50	-10.38	3	Horizontal	340	2.00	-	34.88	18.86	2.83	32.07		
PK	493.66M	29.29	46.00	-16.71	-5.10	3	Horizontal	211	2.00	-	34.39	23.22	3.96	32.28		
PK	800.18M	41.36	46.00	-4.64	-1.67	3	Horizontal	284	1.25	"Worst"	43.03	25.76	5.20	32.63		
PK	883.6M	33.23	46.00	-12.77	-0.69	3	Horizontal	36	2.00	-	33.92	26.24	5.58	32.51		
PK	935.98M	33.41	46.00	-12.59	-0.22	3	Horizontal	277	1.50	-	33.63	26.62	5.68	32.52		
PK	955.38M	33.24	46.00	-12.76	-0.01	3	Horizontal	207	2.00	-	33.25	26.80	5.71	32.52		



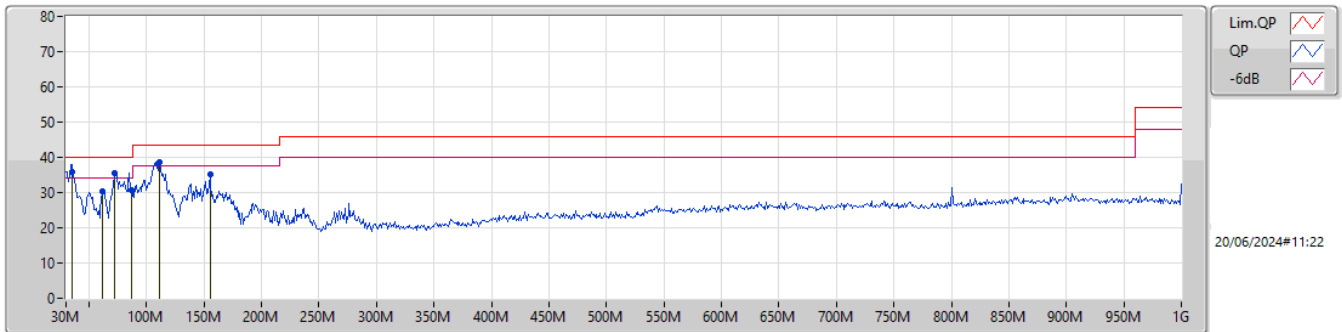
Radiated Emissions below 1GHz

Appendix E.2

Summary

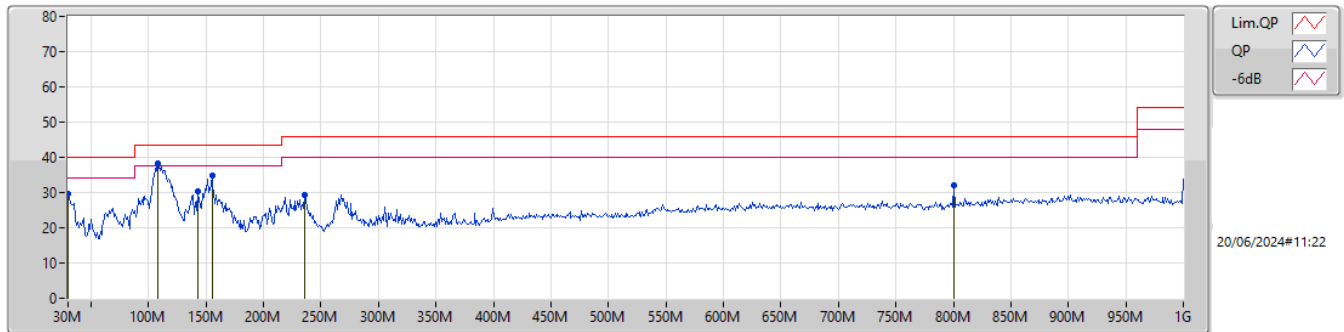
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 2	Pass	QP	34.85M	35.70	40.00	-4.30	Vertical

Mode 2



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)		
QP	34.85M	35.70	40.00	-4.30	-9.00	3	Vertical	86	1.50	"Worst"	44.70	21.32	0.37	30.69		
PK	62.01M	30.46	40.00	-9.54	-18.01	3	Vertical	70	1.00	-	48.47	12.53	0.60	31.14		
PK	72.68M	35.66	40.00	-4.34	-17.64	3	Vertical	29	2.00	-	53.30	12.43	0.67	30.74		
PK	87.23M	30.62	40.00	-9.38	-15.43	3	Vertical	160	1.25	-	46.05	14.62	0.78	30.83		
PK	111.48M	38.79	43.50	-4.71	-11.84	3	Vertical	226	1.00	-	50.63	18.16	0.89	30.89		
PK	155.13M	35.19	43.50	-8.31	-13.82	3	Vertical	178	1.25	-	49.01	16.37	1.11	31.30		

Mode 2



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)		
PK	30M	29.51	40.00	-10.49	-7.16	3	Horizontal	3	1.25	-	36.67	23.56	0.33	31.05		
PK	107.6M	38.32	43.50	-5.18	-12.11	3	Horizontal	143	3.00	"Worst"	50.43	17.84	0.87	30.82		
PK	142.52M	30.46	43.50	-13.04	-12.99	3	Horizontal	240	1.50	-	43.45	17.28	1.09	31.36		
PK	155.13M	34.68	43.50	-8.82	-13.82	3	Horizontal	260	2.00	-	48.50	16.37	1.11	31.30		
PK	235.64M	29.36	46.00	-16.64	-12.79	3	Horizontal	258	1.50	-	42.15	16.72	1.40	30.91		
PK	800.18M	32.22	46.00	-13.78	-3.19	3	Horizontal	184	1.00	-	35.41	25.86	2.92	31.97		

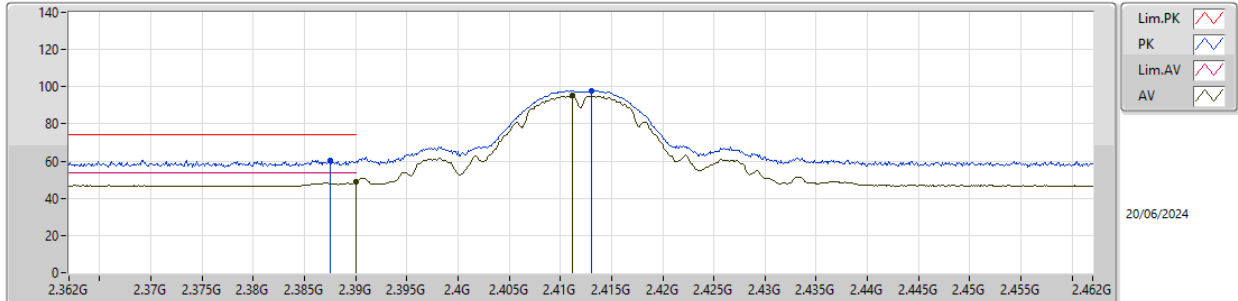


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11n HT40_Nss1,(MCS0)_1TX	Pass	AV	2.38936G	53.95	54.00	-0.05	3	Horizontal	330	1.80	50

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

2412MHz_TX

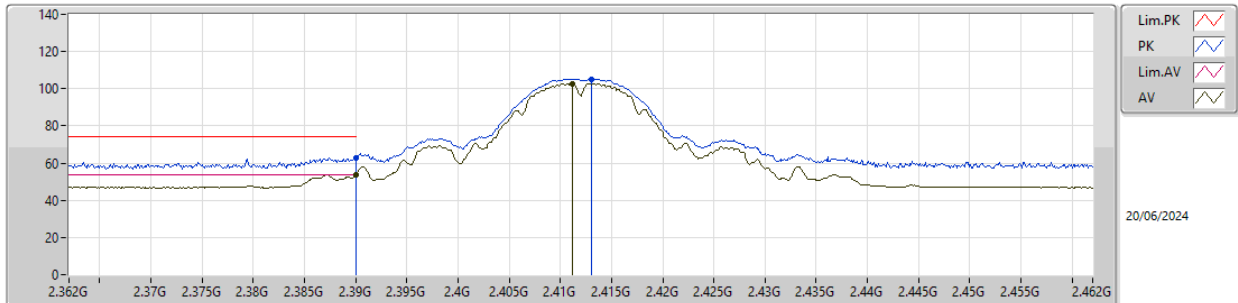


EUT Y_1TX
SET 79
79
5.34

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.3875G	60.37	74.00	-13.63	28.02	3	Vertical	37	1.06	79	27.70	4.65	-			
AV	2.39G	48.66	54.00	-5.34	16.30	3	Vertical	37	1.06	79	27.70	4.66	-			
PK	2.413G	97.77	Inf	-Inf	65.48	3	Vertical	37	1.06	79	27.63	4.66	-			
AV	2.4112G	95.07	Inf	-Inf	62.80	3	Vertical	37	1.06	79	27.61	4.66	-			

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

2412MHz_TX

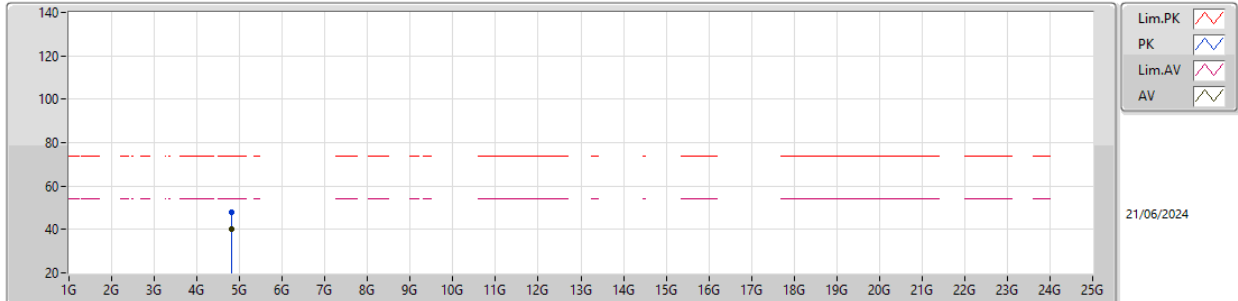


EUT_Y_1TX
SET 79
78\80\79
0.66\ -0.34\0.18

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.39G	62.69	74.00	-11.31	30.33	3	Horizontal	328	2.30	79	27.70	4.66	-			
AV	2.39G	53.82	54.00	-0.18	21.46	3	Horizontal	328	2.30	79	27.70	4.66	-			
PK	2.413G	105.27	Inf	-Inf	72.98	3	Horizontal	328	2.30	79	27.63	4.66	-			
AV	2.4112G	102.75	Inf	-Inf	70.48	3	Horizontal	328	2.30	79	27.61	4.66	-			

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

2412MHz_TX

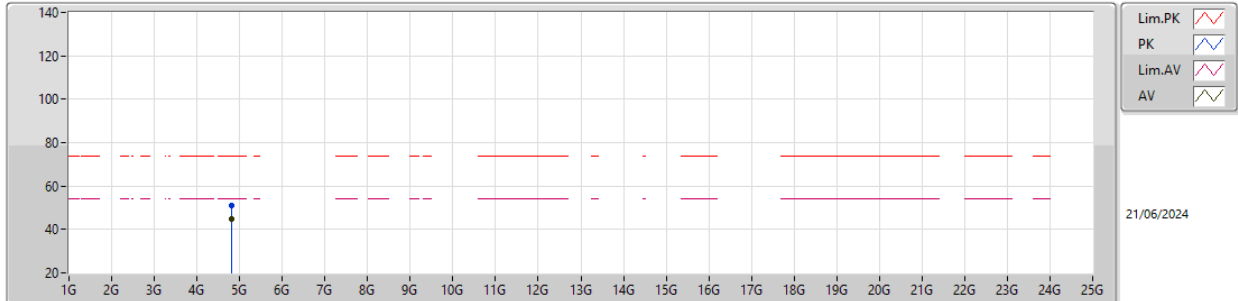


EUT_Y_1TX
SET 79
01-I-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.82364G	48.17	74.00	-25.83	42.51	3	Vertical	8	1.80	-	31.30	6.93	32.57			
AV	4.82394G	40.22	54.00	-13.78	34.56	3	Vertical	8	1.80	-	31.30	6.93	32.57			

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

2412MHz_TX

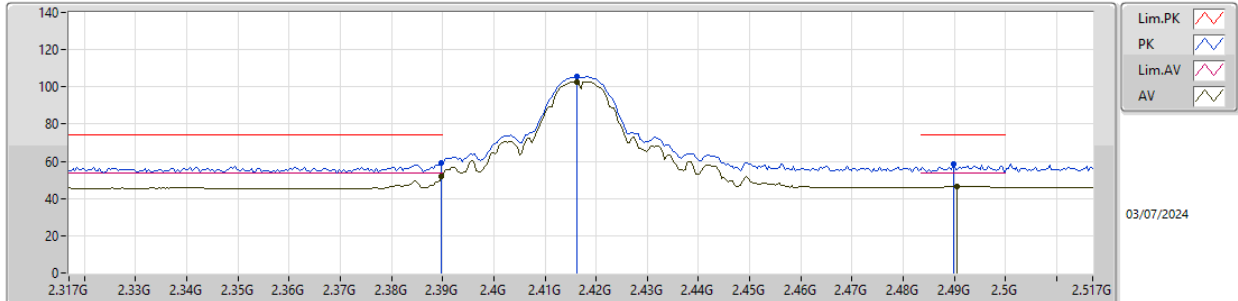


EUT_Y_1TX
SET 79
01-I-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.82392G	51.01	74.00	-22.99	45.35	3	Horizontal	324	1.80	-	31.30	6.93	32.57			
AV	4.82392G	44.90	54.00	-9.10	39.24	3	Horizontal	324	1.80	-	31.30	6.93	32.57			

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

2417MHz_TX

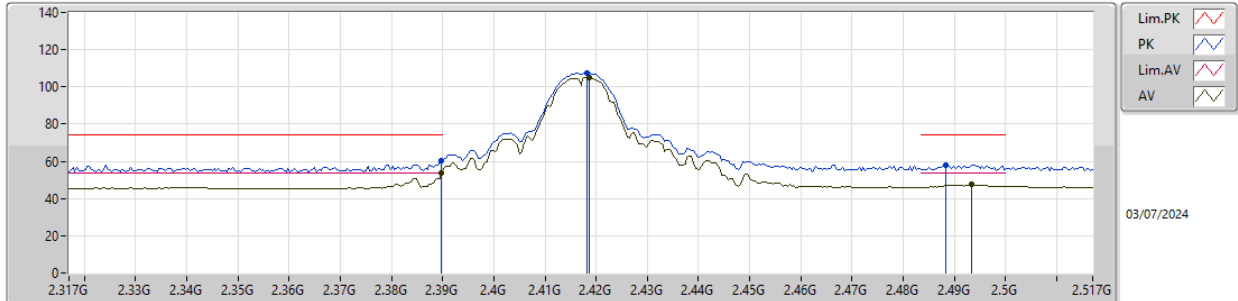


EUT_Y_1TX
Setting 89
04-H-G-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.3898G	59.06	74.00	-14.94	28.31	3	Vertical	350	2.24	-	27.40	3.35	-			
AV	2.3898G	51.94	54.00	-2.06	21.19	3	Vertical	350	2.24	-	27.40	3.35	-			
PK	2.4162G	105.38	Inf	-Inf	74.52	3	Vertical	350	2.24	-	27.50	3.36	-			
AV	2.4162G	102.74	Inf	-Inf	71.88	3	Vertical	350	2.24	-	27.50	3.36	-			
PK	2.4898G	58.25	74.00	-15.75	27.15	3	Vertical	350	2.24	-	27.70	3.40	-			
AV	2.4906G	46.70	54.00	-7.30	15.60	3	Vertical	350	2.24	-	27.70	3.40	-			

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

2417MHz_TX

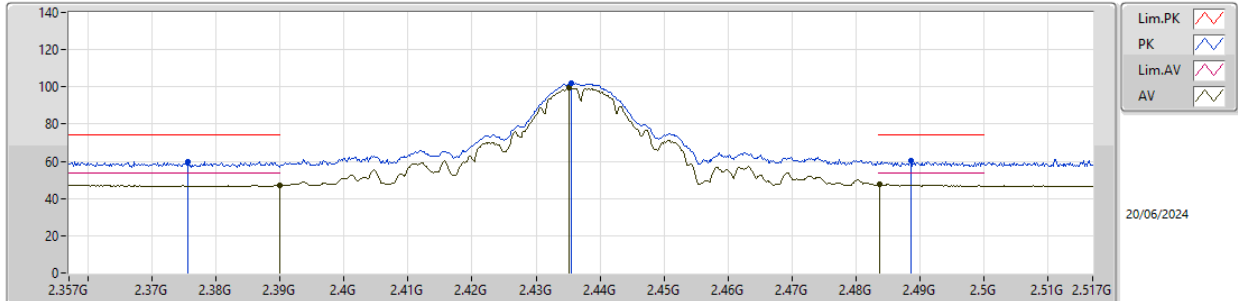


EUT Y_1TX
Setting 89
04-H-G-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.3898G	60.07	74.00	-13.93	29.32	3	Horizontal	19	2.24	-	27.40	3.35	-			
AV	2.3898G	53.78	54.00	-0.22	23.03	3	Horizontal	19	2.24	-	27.40	3.35	-			
PK	2.4182G	107.46	Inf	-Inf	76.60	3	Horizontal	19	2.24	-	27.50	3.36	-			
AV	2.4186G	104.90	Inf	-Inf	74.04	3	Horizontal	19	2.24	-	27.50	3.36	-			
PK	2.4882G	58.10	74.00	-15.90	27.02	3	Horizontal	19	2.24	-	27.68	3.40	-			
AV	2.4934G	47.42	54.00	-6.58	16.32	3	Horizontal	19	2.24	-	27.70	3.40	-			

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

2437MHz_TX

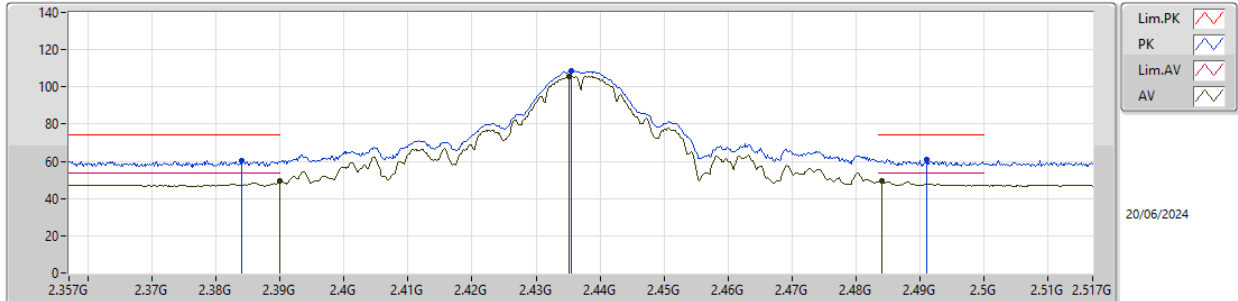


EUT Y_1TX
SET 120
120
6.35

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.37556G	59.84	74.00	-14.16	27.47	3	Vertical	32	1.26	120	27.74	4.63	-			
AV	2.38996G	47.12	54.00	-6.88	14.76	3	Vertical	32	1.26	120	27.70	4.66	-			
PK	2.43556G	101.81	Inf	-Inf	69.63	3	Vertical	32	1.26	120	27.54	4.64	-			
AV	2.43524G	99.37	Inf	-Inf	67.18	3	Vertical	32	1.26	120	27.55	4.64	-			
PK	2.48868G	60.33	74.00	-13.67	28.24	3	Vertical	32	1.26	120	27.50	4.59	-			
AV	2.48372G	47.65	54.00	-6.35	15.55	3	Vertical	32	1.26	120	27.50	4.60	-			

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

2437MHz_TX

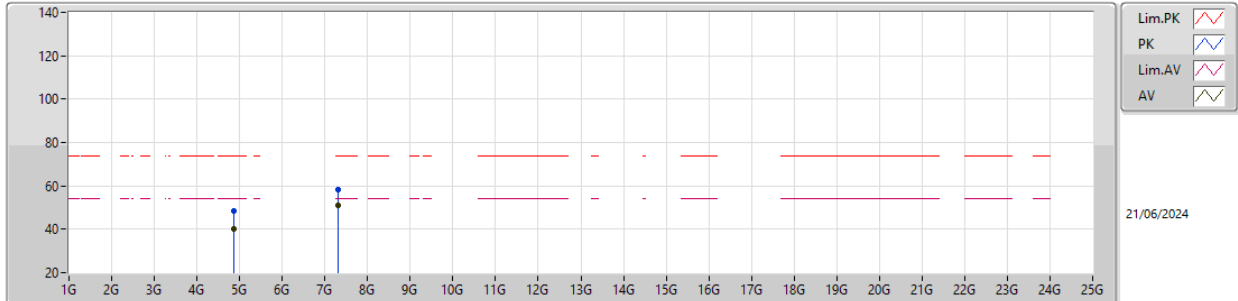


EUT Y_1TX
SET 120
79\106\119\120
6.90\3.71\3.76\4.67

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.38404G	60.41	74.00	-13.59	28.06	3	Horizontal	333	1.80	120	27.70	4.65	-			
AV	2.38996G	49.24	54.00	-4.76	16.88	3	Horizontal	333	1.80	120	27.70	4.66	-			
PK	2.43556G	108.45	Inf	-Inf	76.27	3	Horizontal	333	1.80	120	27.54	4.64	-			
AV	2.43524G	105.81	Inf	-Inf	73.62	3	Horizontal	333	1.80	120	27.55	4.64	-			
PK	2.49108G	61.07	74.00	-12.93	28.98	3	Horizontal	333	1.80	120	27.50	4.59	-			
AV	2.48404G	49.33	54.00	-4.67	17.23	3	Horizontal	333	1.80	120	27.50	4.60	-			

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

2437MHz_TX

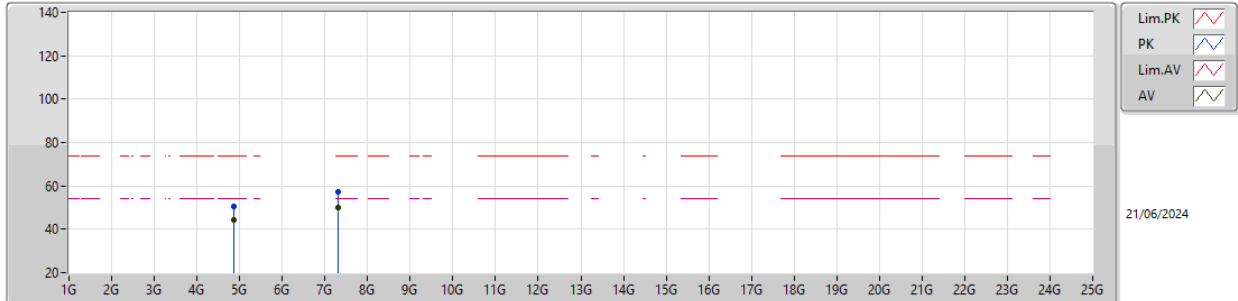


EUT_Y_1TX
SET 94
01-I-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.87424G	48.43	74.00	-25.57	42.72	3	Vertical	360	1.00	-	31.30	6.98	32.57			
AV	4.87388G	40.41	54.00	-13.59	34.70	3	Vertical	360	1.00	-	31.30	6.98	32.57			
PK	7.31148G	58.39	74.00	-15.61	46.15	3	Vertical	56	1.43	-	36.25	8.62	32.63			
AV	7.31176G	50.93	54.00	-3.07	38.69	3	Vertical	56	1.43	-	36.25	8.62	32.63			

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

2437MHz_TX

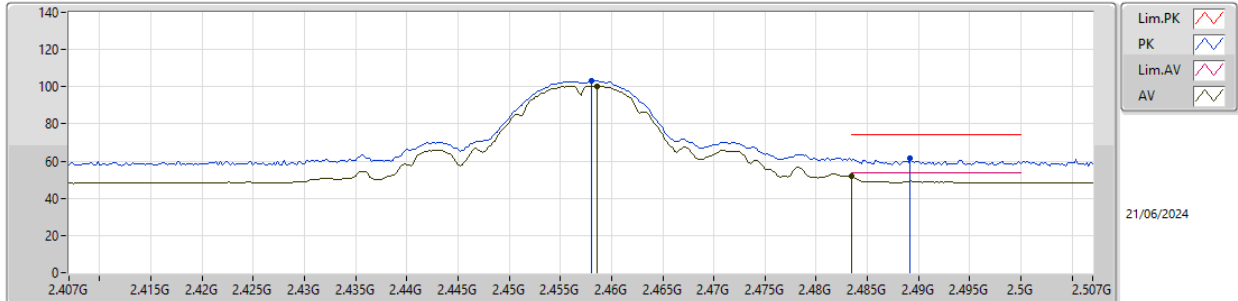


EUT_Y_1TX
SET 94
01-I-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.87388G	50.39	74.00	-23.61	44.68	3	Horizontal	324	1.80	-	31.30	6.98	32.57			
AV	4.87396G	44.42	54.00	-9.58	38.71	3	Horizontal	324	1.80	-	31.30	6.98	32.57			
PK	7.30988G	57.26	74.00	-16.74	45.01	3	Horizontal	318	1.80	-	36.26	8.62	32.63			
AV	7.31012G	49.91	54.00	-4.09	37.66	3	Horizontal	318	1.80	-	36.26	8.62	32.63			

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

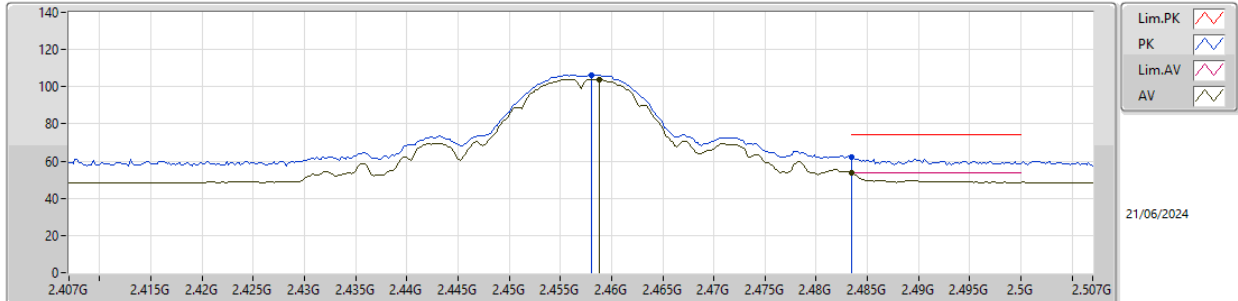
2457MHz_TX

EUT_Y_1TX
SET 82
01-I-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	2.458G	102.97	Inf	-Inf	70.93	3	Vertical	27	3.00	-	27.42	4.62	-				
AV	2.4586G	100.42	Inf	-Inf	68.39	3	Vertical	27	3.00	-	27.41	4.62	-				
PK	2.4892G	61.41	74.00	-12.59	29.32	3	Vertical	27	3.00	-	27.50	4.59	-				
AV	2.4835G	51.60	54.00	-2.40	19.50	3	Vertical	27	3.00	-	27.50	4.60	-				

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

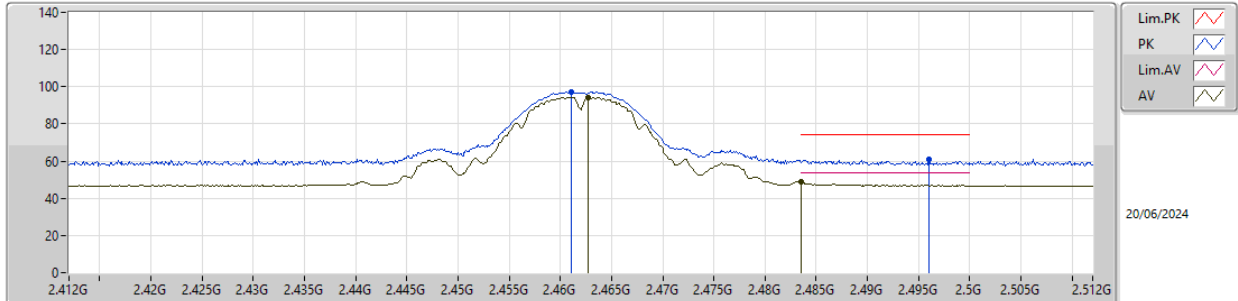
2457MHz_TX

EUT_Y_1TX
SET 82
01-I-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.458G	106.41	Inf	-Inf	74.37	3	Horizontal	267	2.02	-	27.42	4.62	-			
AV	2.4588G	103.83	Inf	-Inf	71.80	3	Horizontal	267	2.02	-	27.41	4.62	-			
PK	2.4835G	62.14	74.00	-11.86	30.04	3	Horizontal	267	2.02	-	27.50	4.60	-			
AV	2.4835G	53.78	54.00	-0.22	21.68	3	Horizontal	267	2.02	-	27.50	4.60	-			

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

2462MHz_TX

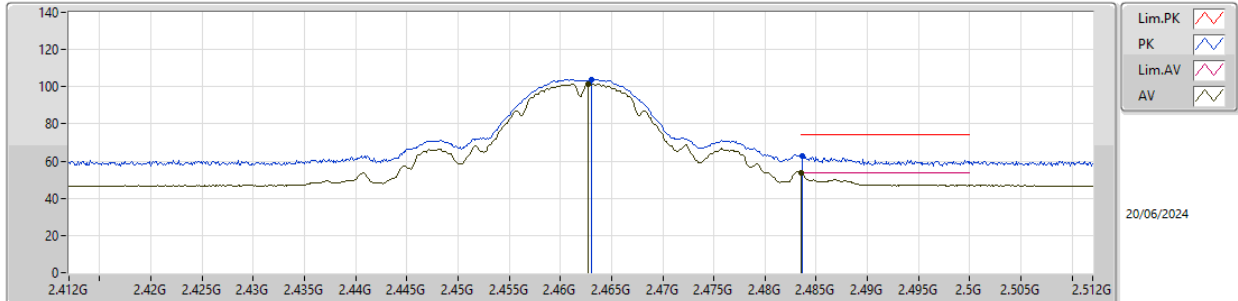


EUT_Y_1TX
SET 75
75
5.39

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.4611G	97.07	Inf	-Inf	65.05	3	Vertical	55	1.80	75	27.40	4.62	-			
AV	2.4627G	94.37	Inf	-Inf	62.35	3	Vertical	55	1.80	75	27.40	4.62	-			
PK	2.496G	61.22	74.00	-12.78	29.13	3	Vertical	55	1.80	75	27.50	4.59	-			
AV	2.4835G	48.61	54.00	-5.39	16.51	3	Vertical	55	1.80	75	27.50	4.60	-			

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

2462MHz_TX

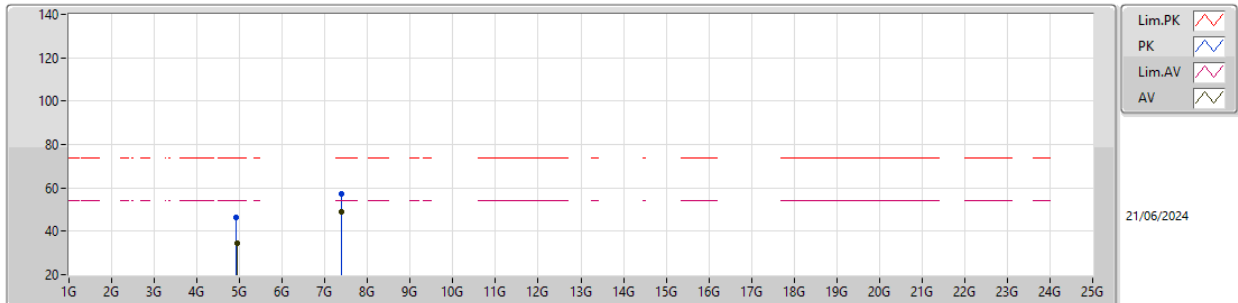


EUT_Y_1TX
SET 75
79\71\75
-1.87\2.47\0.21

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.463G	103.93	Inf	-Inf	71.91	3	Horizontal	29	1.80	75	27.40	4.62	-			
AV	2.4627G	101.23	Inf	-Inf	69.21	3	Horizontal	29	1.80	75	27.40	4.62	-			
PK	2.4836G	62.52	74.00	-11.48	30.42	3	Horizontal	29	1.80	75	27.50	4.60	-			
AV	2.4835G	53.79	54.00	-0.21	21.69	3	Horizontal	29	1.80	75	27.50	4.60	-			

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

2462MHz_TX

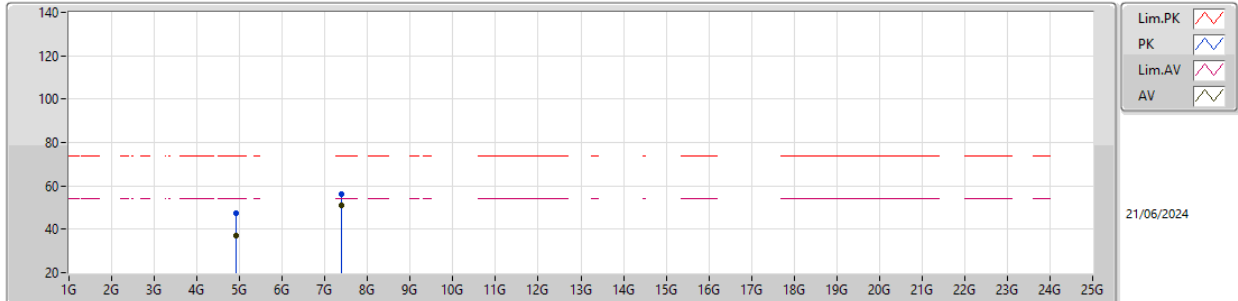


EUT_Y_1TX
SET 72
01-I-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.91956G	46.43	74.00	-27.57	40.60	3	Vertical	211	1.68	-	31.38	7.03	32.58			
AV	4.93672G	34.66	54.00	-19.34	28.74	3	Vertical	211	1.68	-	31.45	7.05	32.58			
PK	7.3875G	57.24	74.00	-16.76	45.03	3	Vertical	61	1.80	-	36.10	8.71	32.60			
AV	7.3851G	48.84	54.00	-5.16	36.63	3	Vertical	61	1.80	-	36.10	8.71	32.60			

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

2462MHz_TX

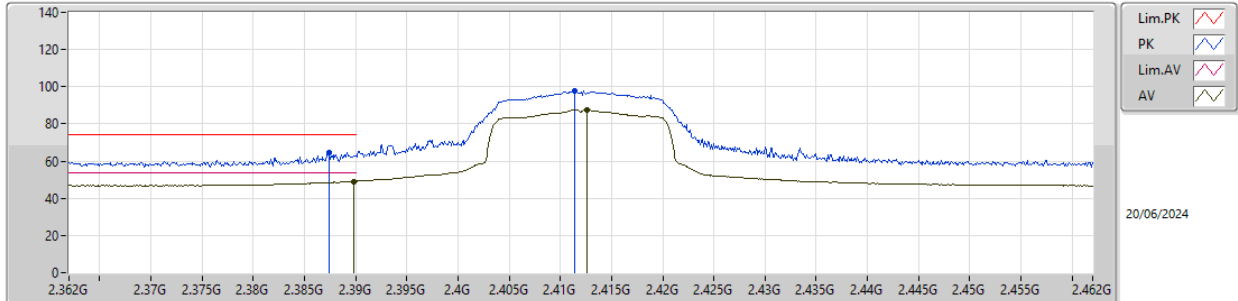


EUT Y_1TX
SET 72
01-I-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.92394G	47.38	74.00	-26.62	41.53	3	Horizontal	92	2.69	-	31.40	7.03	32.58			
AV	4.924G	37.30	54.00	-16.70	31.45	3	Horizontal	92	2.69	-	31.40	7.03	32.58			
PK	7.38336G	56.17	74.00	-17.83	43.96	3	Horizontal	291	1.80	-	36.10	8.71	32.60			
AV	7.38528G	50.86	54.00	-3.14	38.65	3	Horizontal	291	1.80	-	36.10	8.71	32.60			

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

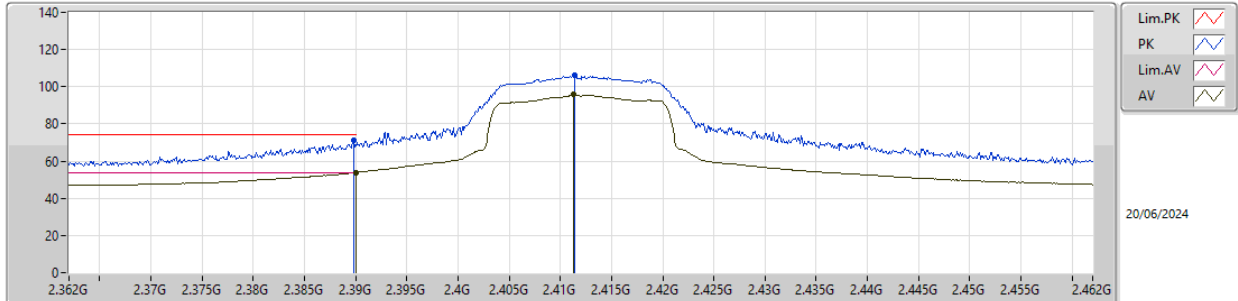
2412MHz_TX

EUT Y_1TX
SET 62
62
4.89

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.3874G	64.53	74.00	-9.47	32.18	3	Vertical	42	1.88	62	27.70	4.65	-			
AV	2.3898G	49.11	54.00	-4.89	16.75	3	Vertical	42	1.88	62	27.70	4.66	-			
PK	2.4114G	97.74	Inf	-Inf	65.47	3	Vertical	42	1.88	62	27.61	4.66	-			
AV	2.4126G	87.52	Inf	-Inf	55.23	3	Vertical	42	1.88	62	27.63	4.66	-			

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

2412MHz_TX

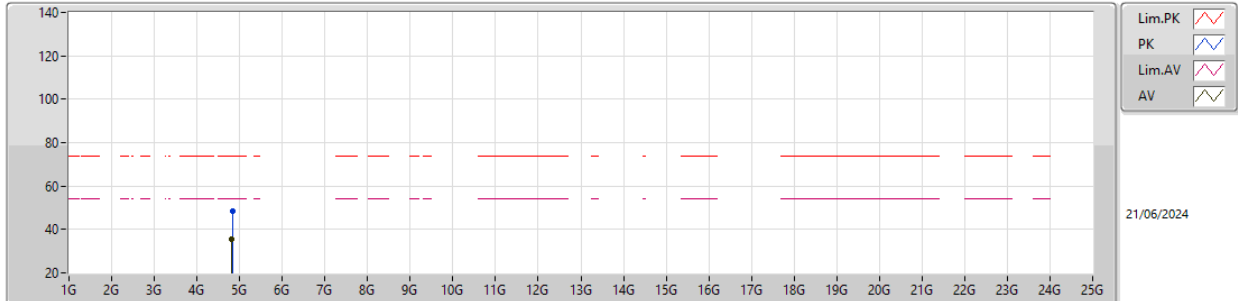


EUT_Y_1TX
SET 62
59\65\62
1.63\1.32\0.16

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.3898G	71.50	74.00	-2.50	39.14	3	Horizontal	30	1.91	62	27.70	4.66	-			
AV	2.39G	53.84	54.00	-0.16	21.48	3	Horizontal	30	1.91	62	27.70	4.66	-			
PK	2.4114G	106.00	Inf	-Inf	73.73	3	Horizontal	30	1.91	62	27.61	4.66	-			
AV	2.4113G	95.66	Inf	-Inf	63.39	3	Horizontal	30	1.91	62	27.61	4.66	-			

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

2412MHz_TX

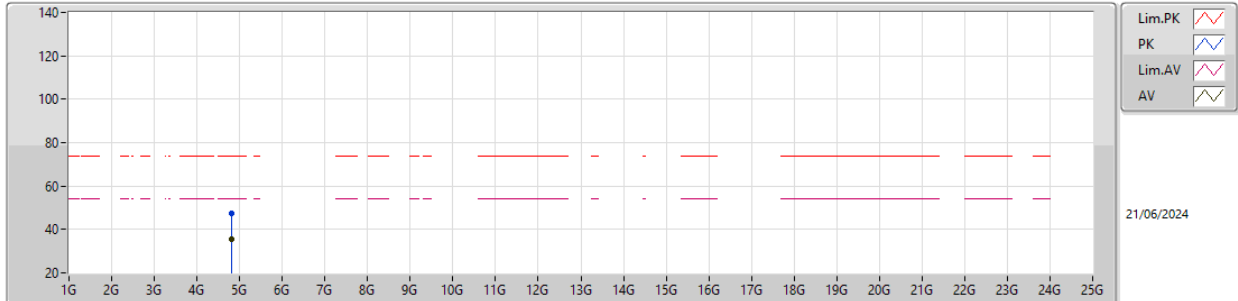


EUT_Y_1TX
SET 62
01-I-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.82898G	48.19	74.00	-25.81	42.52	3	Vertical	65	1.84	-	31.30	6.94	32.57			
AV	4.82322G	35.47	54.00	-18.53	29.81	3	Vertical	65	1.84	-	31.30	6.93	32.57			

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

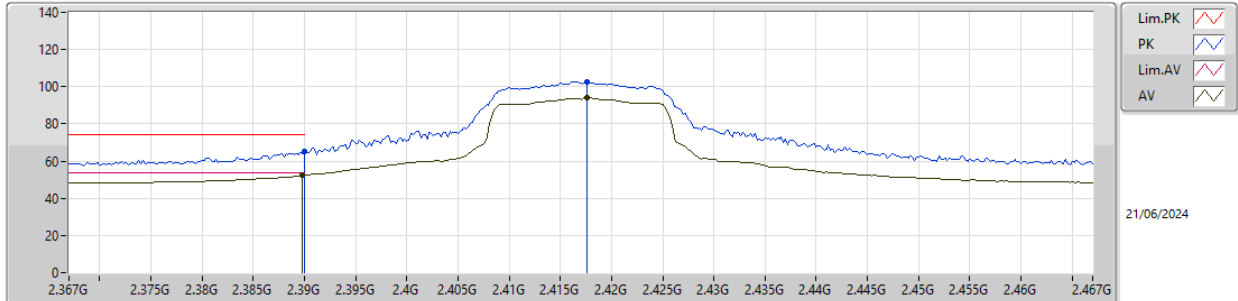
2412MHz_TX

EUT_Y_1TX
SET 62
01-I-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.81776G	47.63	74.00	-26.37	41.97	3	Horizontal	127	2.42	-	31.30	6.93	32.57			
AV	4.82346G	35.47	54.00	-18.53	29.81	3	Horizontal	127	2.42	-	31.30	6.93	32.57			

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

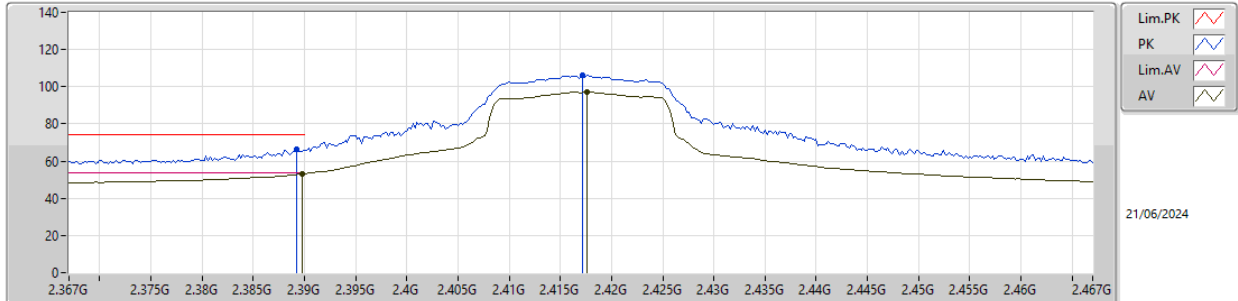
2417MHz_TX

EUT_Y_1TX
SET 69
01-I-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.39G	65.42	74.00	-8.58	33.06	3	Vertical	22	2.83	-	27.70	4.66	-			
AV	2.3898G	52.33	54.00	-1.67	19.97	3	Vertical	22	2.83	-	27.70	4.66	-			
PK	2.4176G	102.79	Inf	-Inf	70.45	3	Vertical	22	2.83	-	27.68	4.66	-			
AV	2.4176G	94.10	Inf	-Inf	61.76	3	Vertical	22	2.83	-	27.68	4.66	-			

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

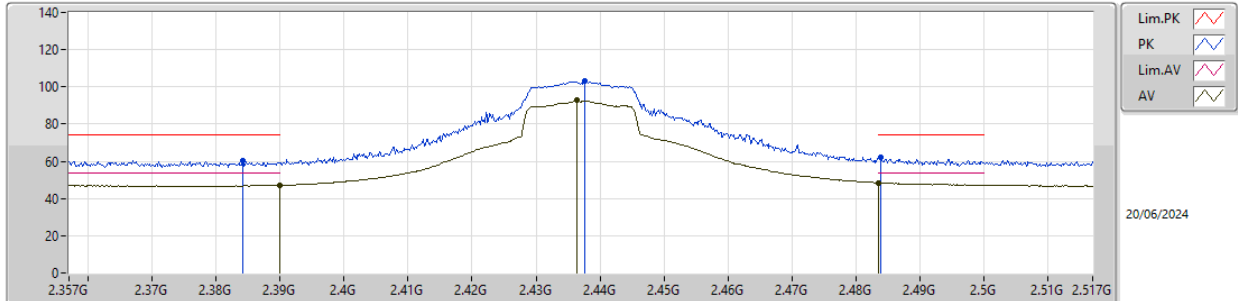
2417MHz_TX

EUT_Y_1TX
SET 69
01-I-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.3892G	66.37	74.00	-7.63	34.02	3	Horizontal	319	1.80	-	27.70	4.65	-			
AV	2.3898G	53.21	54.00	-0.79	20.85	3	Horizontal	319	1.80	-	27.70	4.66	-			
PK	2.4172G	106.13	Inf	-Inf	73.80	3	Horizontal	319	1.80	-	27.67	4.66	-			
AV	2.4176G	97.32	Inf	-Inf	64.98	3	Horizontal	319	1.80	-	27.68	4.66	-			

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

2437MHz_TX

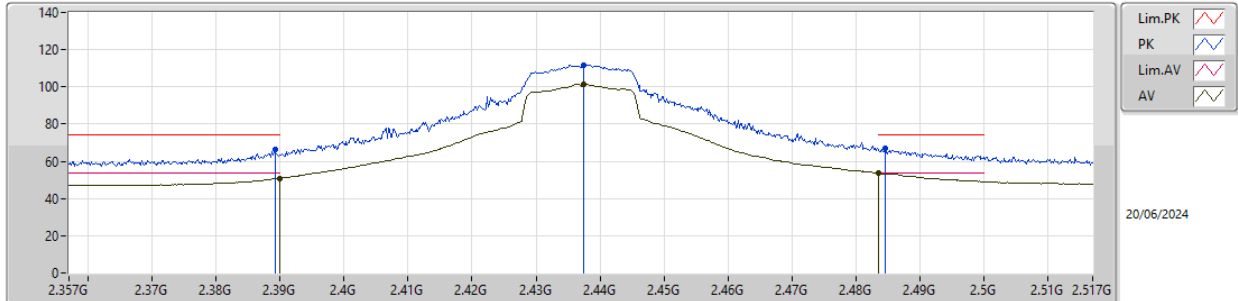


EUT Y_1TX
SET 89
89
5.56

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.3842G	60.36	74.00	-13.64	28.01	3	Vertical	43	1.80	89	27.70	4.65	-			
AV	2.38996G	47.17	54.00	-6.83	14.81	3	Vertical	43	1.80	89	27.70	4.66	-			
PK	2.43764G	102.92	Inf	-Inf	70.76	3	Vertical	43	1.80	89	27.52	4.64	-			
AV	2.43636G	92.68	Inf	-Inf	60.50	3	Vertical	43	1.80	89	27.54	4.64	-			
PK	2.48388G	62.07	74.00	-11.93	29.97	3	Vertical	43	1.80	89	27.50	4.60	-			
AV	2.4835G	48.44	54.00	-5.56	16.34	3	Vertical	43	1.80	89	27.50	4.60	-			

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

2437MHz_TX

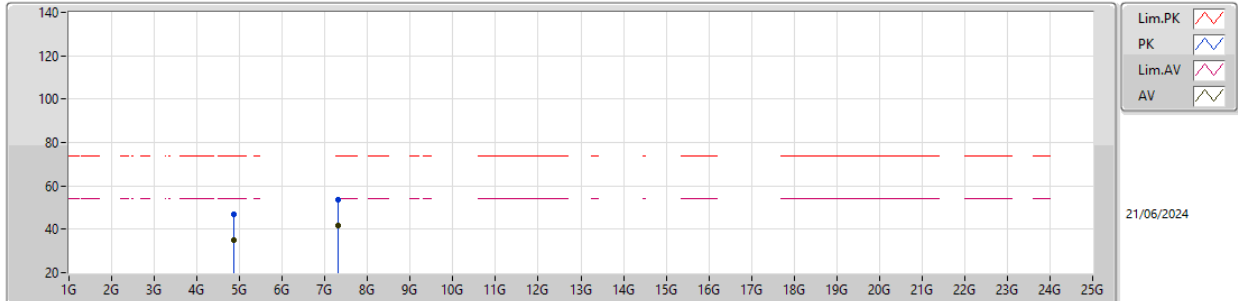


EUT_Y_1TX
SET 89
59\85\98\92\89
6.50\1.25\~2.45\~0.97\0.21

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.38916G	66.47	74.00	-7.53	34.12	3	Horizontal	321	2.26	89	27.70	4.65	-			
AV	2.38996G	50.86	54.00	-3.14	18.50	3	Horizontal	321	2.26	89	27.70	4.66	-			
PK	2.43748G	111.67	Inf	-Inf	79.50	3	Horizontal	321	2.26	89	27.53	4.64	-			
AV	2.43748G	101.38	Inf	-Inf	69.21	3	Horizontal	321	2.26	89	27.53	4.64	-			
PK	2.48452G	67.23	74.00	-6.77	35.13	3	Horizontal	321	2.26	89	27.50	4.60	-			
AV	2.4835G	53.79	54.00	-0.21	21.69	3	Horizontal	321	2.26	89	27.50	4.60	-			

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

2437MHz_TX

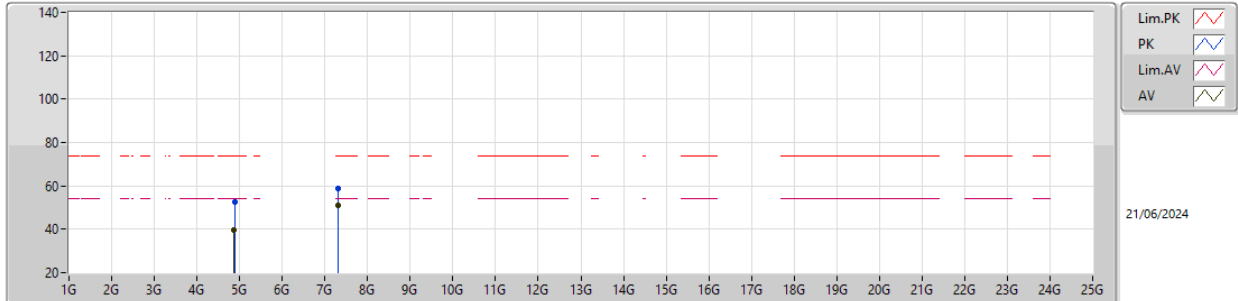


EUT_Y_1TX
SET 80
01-I-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.87658G	47.04	74.00	-26.96	41.33	3	Vertical	70	1.71	-	31.30	6.99	32.58			
AV	4.87418G	34.85	54.00	-19.15	29.14	3	Vertical	70	1.71	-	31.30	6.98	32.57			
PK	7.314G	53.76	74.00	-20.24	41.52	3	Vertical	284	1.80	-	36.24	8.63	32.63			
AV	7.308G	41.65	54.00	-12.35	29.39	3	Vertical	284	1.80	-	36.27	8.62	32.63			

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

2437MHz_TX

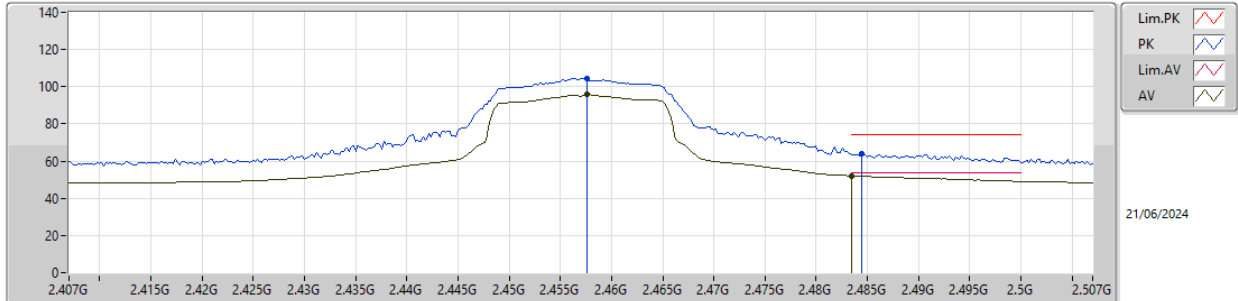


EUT Y_1TX
SET 80
01-I-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.87964G	52.47	74.00	-21.53	46.76	3	Horizontal	360	1.80	-	31.30	6.99	32.58			
AV	4.87394G	39.85	54.00	-14.15	34.14	3	Horizontal	360	1.80	-	31.30	6.98	32.57			
PK	7.31274G	59.03	74.00	-14.97	46.78	3	Horizontal	27	1.80	-	36.25	8.63	32.63			
AV	7.31154G	50.99	54.00	-3.01	38.75	3	Horizontal	27	1.80	-	36.25	8.62	32.63			

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

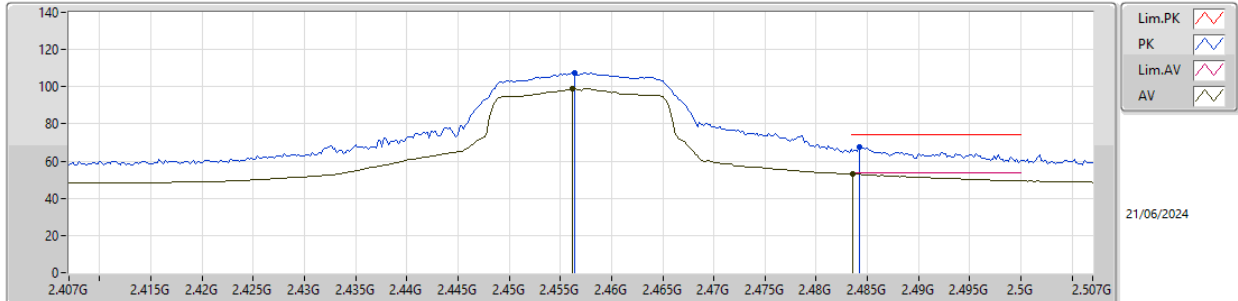
2457MHz_TX

EUT_Y_1TX
SET 65
01-I-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	2.4576G	104.47	Inf	-Inf	72.43	3	Vertical	25	3.00	-	27.42	4.62	-				
AV	2.4576G	95.68	Inf	-Inf	63.64	3	Vertical	25	3.00	-	27.42	4.62	-				
PK	2.4844G	64.25	74.00	-9.75	32.15	3	Vertical	25	3.00	-	27.50	4.60	-				
AV	2.4835G	52.00	54.00	-2.00	19.90	3	Vertical	25	3.00	-	27.50	4.60	-				

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

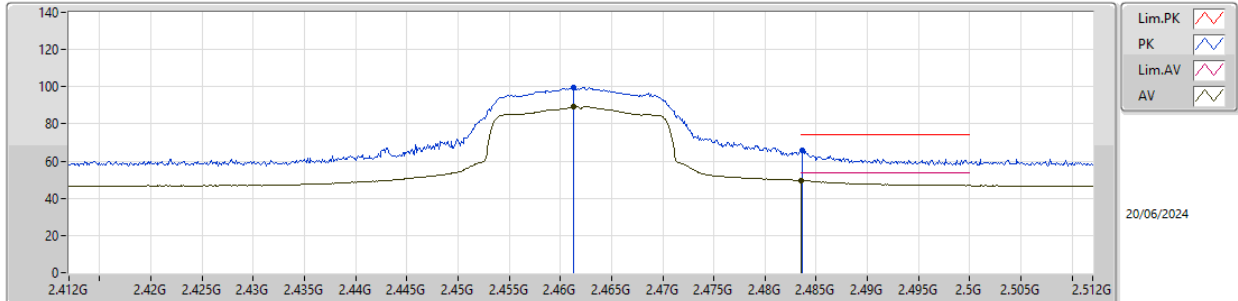
2457MHz_TX

EUT_Y_1TX
SET 65
01-I-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.4564G	107.59	Inf	-Inf	75.53	3	Horizontal	328	2.22	-	27.44	4.62	-			
AV	2.4562G	98.83	Inf	-Inf	66.77	3	Horizontal	328	2.22	-	27.44	4.62	-			
PK	2.4842G	67.85	74.00	-6.15	35.75	3	Horizontal	328	2.22	-	27.50	4.60	-			
AV	2.4836G	53.11	54.00	-0.89	21.01	3	Horizontal	328	2.22	-	27.50	4.60	-			

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX

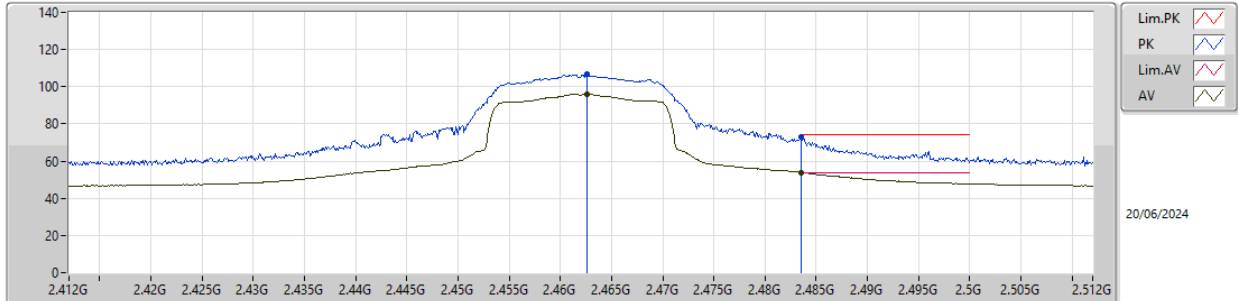


EUT Y_1TX
SET 65
65
4.61

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.4613G	99.59	Inf	-Inf	67.57	3	Vertical	55	1.80	65	27.40	4.62	-			
AV	2.4613G	89.32	Inf	-Inf	57.30	3	Vertical	55	1.80	65	27.40	4.62	-			
PK	2.4836G	65.53	74.00	-8.47	33.43	3	Vertical	55	1.80	65	27.50	4.60	-			
AV	2.4835G	49.39	54.00	-4.61	17.29	3	Vertical	55	1.80	65	27.50	4.60	-			

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX

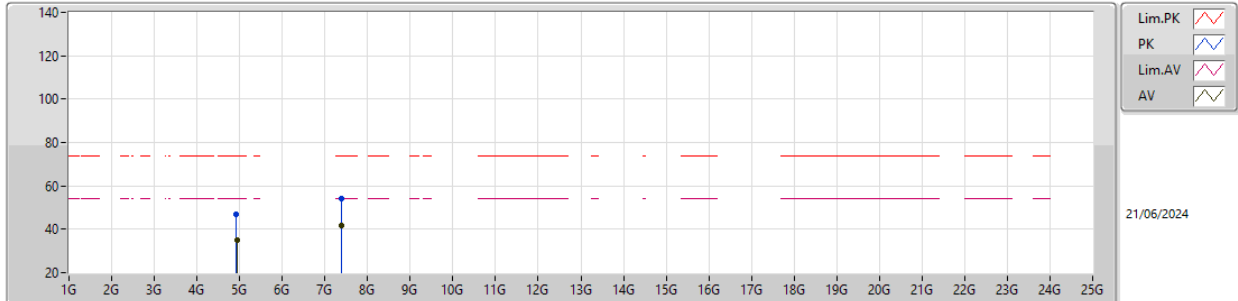


EUT_Y_1TX
SET 65
59\67\63\65
2.12\ -1.22\0.97\0.24

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.4626G	106.73	Inf	-Inf	74.71	3	Horizontal	38	1.80	65	27.40	4.62	-			
AV	2.4626G	96.18	Inf	-Inf	64.16	3	Horizontal	38	1.80	65	27.40	4.62	-			
PK	2.4835G	72.74	74.00	-1.26	40.64	3	Horizontal	38	1.80	65	27.50	4.60	-			
AV	2.4835G	53.76	54.00	-0.24	21.66	3	Horizontal	38	1.80	65	27.50	4.60	-			

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX

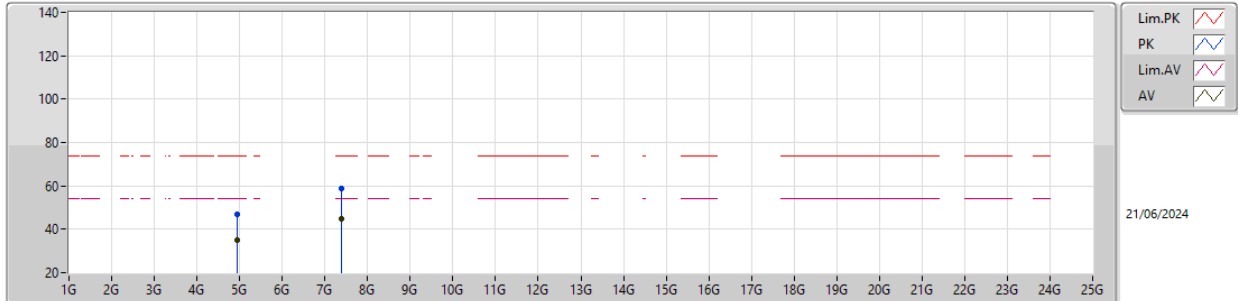


EUT_Y_1TX
SET 65
01-I-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.914888G	46.78	74.00	-27.22	40.98	3	Vertical	190	1.19	-	31.36	7.02	32.58			
AV	4.93792G	34.77	54.00	-19.23	28.85	3	Vertical	190	1.19	-	31.45	7.05	32.58			
PK	7.38708G	54.03	74.00	-19.97	41.82	3	Vertical	318	2.65	-	36.10	8.71	32.60			
AV	7.38252G	41.59	54.00	-12.41	29.38	3	Vertical	318	2.65	-	36.10	8.71	32.60			

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX

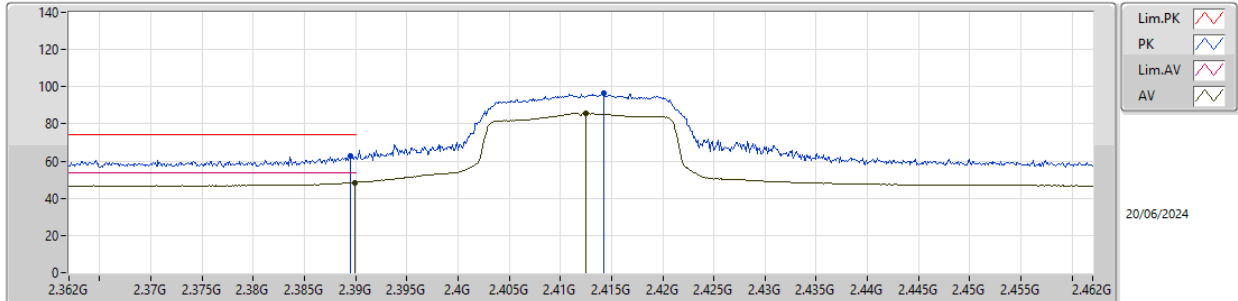


EUT_Y_1TX
SET 65
01-I-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.9336G	46.99	74.00	-27.01	41.10	3	Horizontal	344	1.22	-	31.43	7.04	32.58			
AV	4.93846G	34.78	54.00	-19.22	28.86	3	Horizontal	344	1.22	-	31.45	7.05	32.58			
PK	7.3866G	58.64	74.00	-15.36	46.43	3	Horizontal	319	2.61	-	36.10	8.71	32.60			
AV	7.38582G	44.91	54.00	-9.09	32.70	3	Horizontal	319	2.61	-	36.10	8.71	32.60			

2.4-2.4835GHz_802.11n HT20_Nss1,(MCS0)_1TX

2412MHz_TX

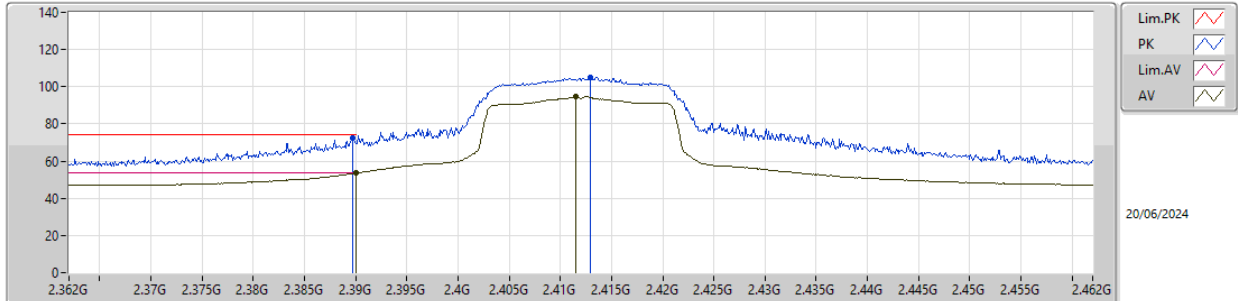


EUT_Y_1TX
SET 63
63
5.44

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.3895G	62.55	74.00	-11.45	30.20	3	Vertical	41	1.80	63	27.70	4.65	-			
AV	2.3899G	48.56	54.00	-5.44	16.20	3	Vertical	41	1.80	63	27.70	4.66	-			
PK	2.4142G	96.81	Inf	-Inf	64.51	3	Vertical	41	1.80	63	27.64	4.66	-			
AV	2.4125G	85.97	Inf	-Inf	53.69	3	Vertical	41	1.80	63	27.62	4.66	-			

2.4-2.4835GHz_802.11n HT20_Nss1,(MCS0)_1TX

2412MHz_TX

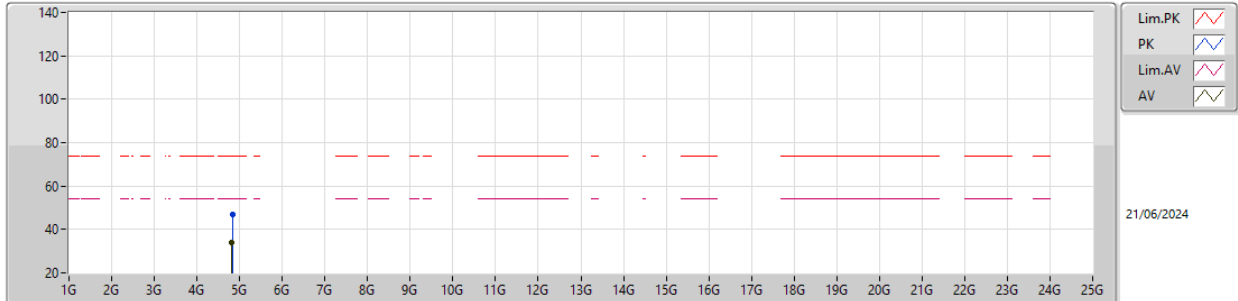


EUT_Y_1TX
SET 63
58\67\63
2.45\1.77\0.31

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.3897G	72.50	74.00	-1.50	40.14	3	Horizontal	328	1.80	63	27.70	4.66	-			
AV	2.39G	53.69	54.00	-0.31	21.33	3	Horizontal	328	1.80	63	27.70	4.66	-			
PK	2.4129G	105.01	Inf	-Inf	72.72	3	Horizontal	328	1.80	63	27.63	4.66	-			
AV	2.4115G	94.61	Inf	-Inf	62.33	3	Horizontal	328	1.80	63	27.62	4.66	-			

2.4-2.4835GHz_802.11n HT20_Nss1,(MCS0)_1TX

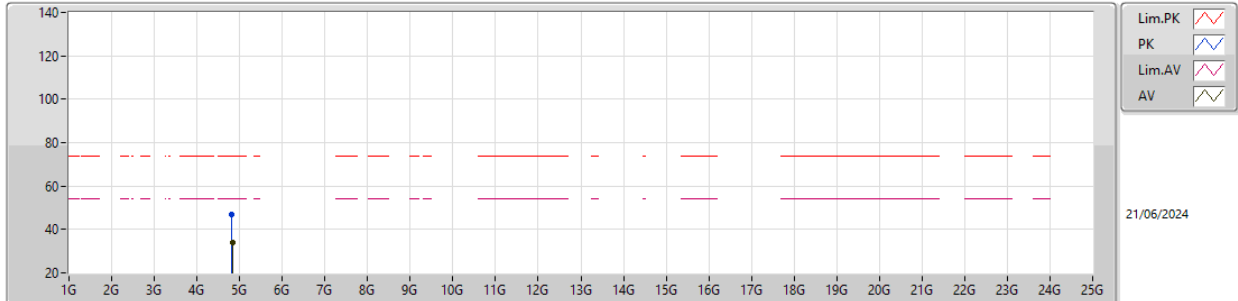
2412MHz_TX

EUT Y_1TX
SET 63
01-I-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.82946G	47.03	74.00	-26.97	41.36	3	Vertical	148	1.06	-	31.30	6.94	32.57			
AV	4.81314G	34.18	54.00	-19.82	28.53	3	Vertical	148	1.06	-	31.30	6.92	32.57			

2.4-2.4835GHz_802.11n HT20_Nss1,(MCS0)_1TX

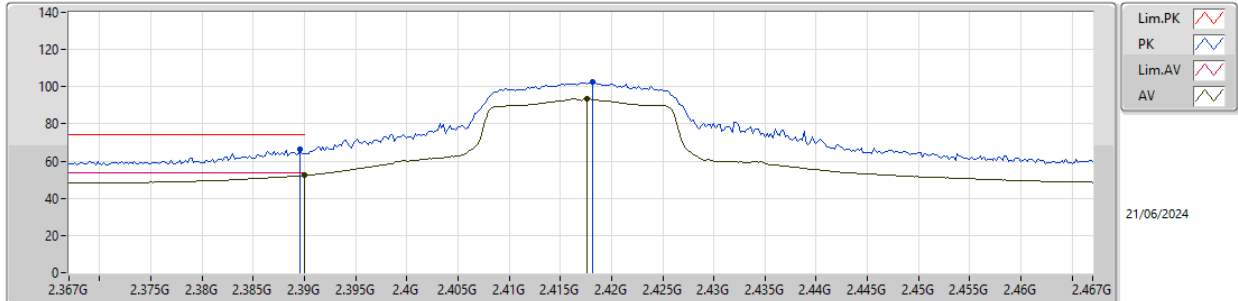
2412MHz_TX

EUT_Y_1TX
SET 63
01-I-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.8111G	47.04	74.00	-26.96	41.39	3	Horizontal	176	2.87	-	31.30	6.92	32.57			
AV	4.839G	34.17	54.00	-19.83	28.49	3	Horizontal	176	2.87	-	31.30	6.95	32.57			

2.4-2.4835GHz_802.11n HT20_Nss1,(MCS0)_1TX

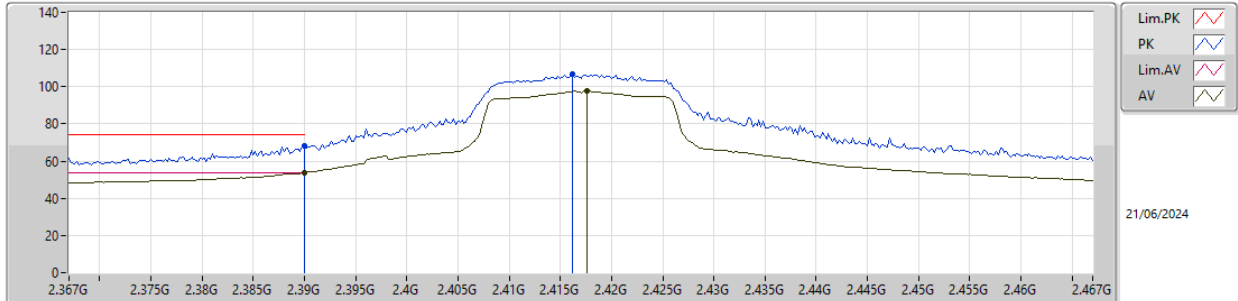
2417MHz_TX

EUT Y_1TX
SET 73
01-I-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.3896G	66.23	74.00	-7.77	33.88	3	Vertical	39	2.58	-	27.70	4.65	-			
AV	2.39G	52.33	54.00	-1.67	19.97	3	Vertical	39	2.58	-	27.70	4.66	-			
PK	2.4182G	102.49	Inf	-Inf	70.16	3	Vertical	39	2.58	-	27.68	4.65	-			
AV	2.4176G	93.42	Inf	-Inf	61.08	3	Vertical	39	2.58	-	27.68	4.66	-			

2.4-2.4835GHz_802.11n HT20_Nss1,(MCS0)_1TX

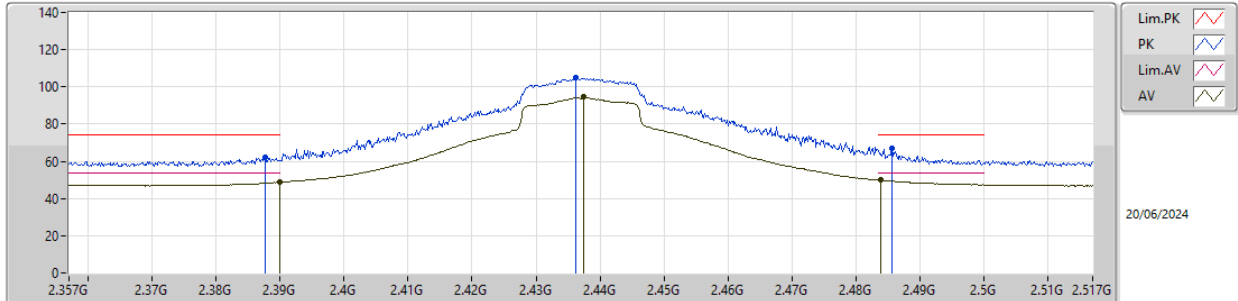
2417MHz_TX

EUT Y_1TX
SET 73
01-I-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.39G	68.19	74.00	-5.81	35.83	3	Horizontal	316	1.80	-	27.70	4.66	-			
AV	2.39G	53.70	54.00	-0.30	21.34	3	Horizontal	316	1.80	-	27.70	4.66	-			
PK	2.4162G	106.63	Inf	-Inf	74.31	3	Horizontal	316	1.80	-	27.66	4.66	-			
AV	2.4176G	97.63	Inf	-Inf	65.29	3	Horizontal	316	1.80	-	27.68	4.66	-			

2.4-2.4835GHz_802.11n HT20_Nss1,(MCS0)_1TX

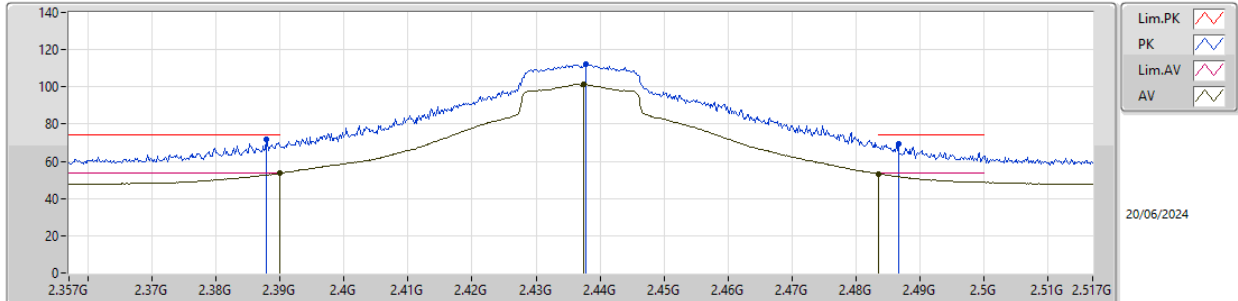
2437MHz_TX

EUT Y_1TX
SET 104
104
4.04

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.38772G	61.99	74.00	-12.01	29.64	3	Vertical	28	1.05	104	27.70	4.65	-			
AV	2.38996G	48.79	54.00	-5.21	16.43	3	Vertical	28	1.05	104	27.70	4.66	-			
PK	2.4362G	105.04	Inf	-Inf	72.86	3	Vertical	28	1.05	104	27.54	4.64	-			
AV	2.43748G	94.47	Inf	-Inf	62.30	3	Vertical	28	1.05	104	27.53	4.64	-			
PK	2.48564G	67.05	74.00	-6.95	34.95	3	Vertical	28	1.05	104	27.50	4.60	-			
AV	2.48388G	49.96	54.00	-4.04	17.86	3	Vertical	28	1.05	104	27.50	4.60	-			

2.4-2.4835GHz_802.11n HT20_Nss1,(MCS0)_1TX

2437MHz_TX

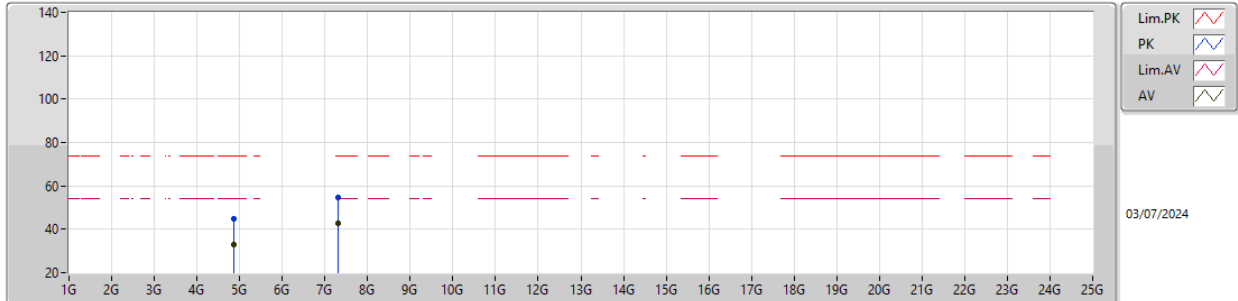


EUT Y_1TX
SET 104
89\104
3.82\0.37

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.38788G	71.91	74.00	-2.09	39.56	3	Horizontal	332	1.80	104	27.70	4.65	-			
AV	2.38996G	53.63	54.00	-0.37	21.27	3	Horizontal	332	1.80	104	27.70	4.66	-			
PK	2.4378G	112.06	Inf	-Inf	79.90	3	Horizontal	332	1.80	104	27.52	4.64	-			
AV	2.43748G	101.52	Inf	-Inf	69.35	3	Horizontal	332	1.80	104	27.53	4.64	-			
PK	2.4866G	69.44	74.00	-4.56	37.34	3	Horizontal	332	1.80	104	27.50	4.60	-			
AV	2.4835G	53.33	54.00	-0.67	21.23	3	Horizontal	332	1.80	104	27.50	4.60	-			

2.4-2.4835GHz_802.11n HT20_Nss1,(MCS0)_1TX

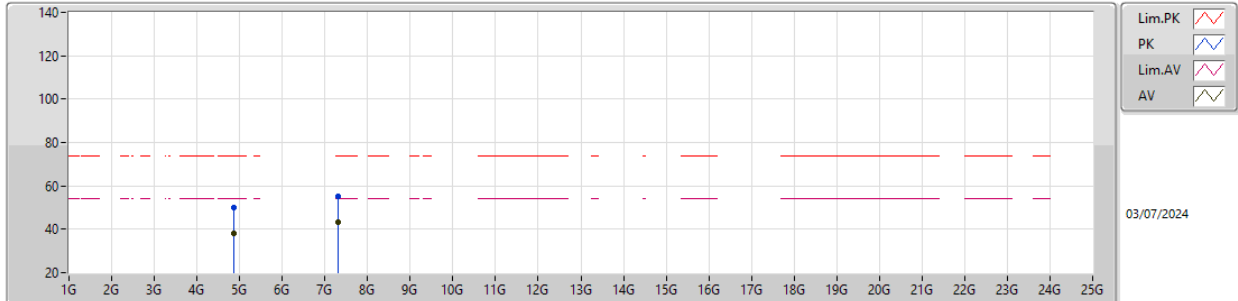
2437MHz_TX

EUT Y_1TX
SET 104
04-H-A-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.877G	44.70	74.00	-29.30	50.39	3	Vertical	33	1.80	-	32.51	5.72	43.92			
AV	4.8753G	32.89	54.00	-21.11	38.59	3	Vertical	33	1.80	-	32.50	5.72	43.92			
PK	7.3153G	54.60	74.00	-19.40	53.05	3	Vertical	56	1.39	-	37.20	7.12	42.77			
AV	7.3107G	42.65	54.00	-11.35	41.09	3	Vertical	56	1.39	-	37.20	7.12	42.76			

2.4-2.4835GHz_802.11n_HT20_Nss1,(MCS0)_1TX

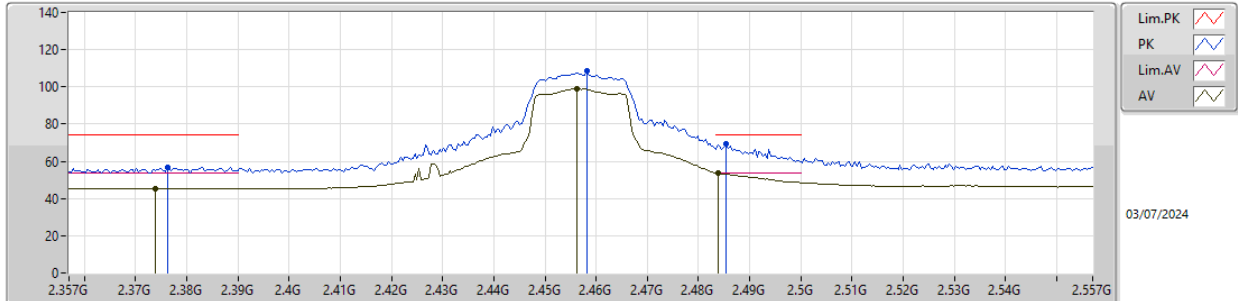
2437MHz_TX

EUT Y_1TX
SET 104
04-H-A-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.8752G	50.00	74.00	-24.00	55.70	3	Horizontal	346	2.57	-	32.50	5.72	43.92			
AV	4.8751G	37.99	54.00	-16.01	43.69	3	Horizontal	346	2.57	-	32.50	5.72	43.92			
PK	7.312G	54.98	74.00	-19.02	53.43	3	Horizontal	93	1.80	-	37.20	7.12	42.77			
AV	7.3115G	43.16	54.00	-10.84	41.60	3	Horizontal	93	1.80	-	37.20	7.12	42.76			

2.4-2.4835GHz_802.11n HT20_Nss1,(MCS0)_1TX

2457MHz_TX

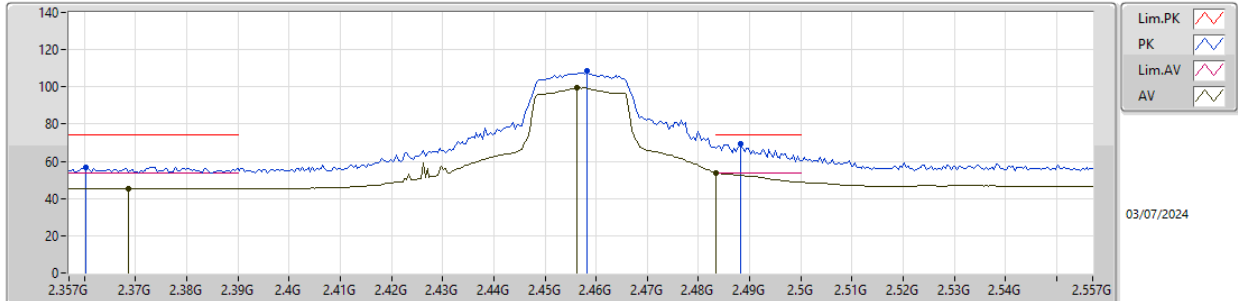


EUT Y_1TX
Setting 73
04-H-A-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.3762G	56.76	74.00	-17.24	25.98	3	Vertical	7	2.93	-	27.44	3.34	-			
AV	2.3738G	45.49	54.00	-8.51	14.69	3	Vertical	7	2.93	-	27.46	3.34	-			
PK	2.4582G	108.41	Inf	-Inf	77.43	3	Vertical	7	2.93	-	27.60	3.38	-			
AV	2.4562G	99.24	Inf	-Inf	68.26	3	Vertical	7	2.93	-	27.60	3.38	-			
PK	2.4854G	69.11	74.00	-4.89	38.06	3	Vertical	7	2.93	-	27.65	3.40	-			
AV	2.4838G	53.65	54.00	-0.35	22.61	3	Vertical	7	2.93	-	27.64	3.40	-			

2.4-2.4835GHz_802.11n HT20_Nss1,(MCS0)_1TX

2457MHz_TX

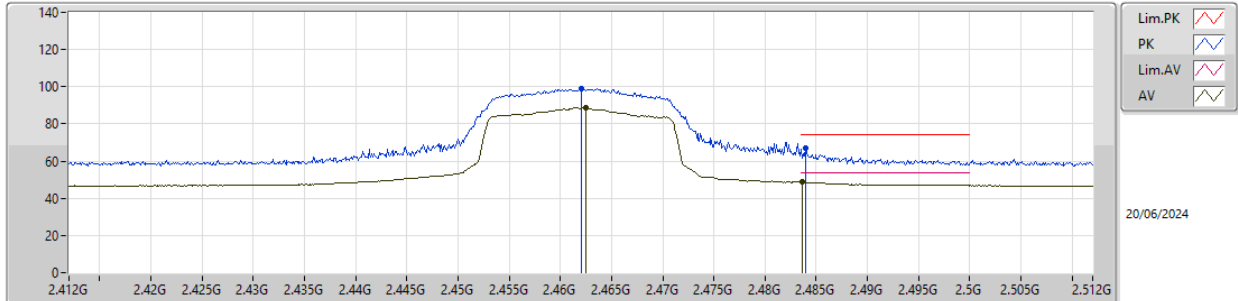


EUT Y_1TX
Setting 73
04-H-A-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.3602G	56.93	74.00	-17.07	26.20	3	Horizontal	15	2.45	-	27.40	3.33	-			
AV	2.3686G	45.55	54.00	-8.45	14.72	3	Horizontal	15	2.45	-	27.49	3.34	-			
PK	2.4582G	108.41	Inf	-Inf	77.43	3	Horizontal	15	2.45	-	27.60	3.38	-			
AV	2.4562G	99.55	Inf	-Inf	68.57	3	Horizontal	15	2.45	-	27.60	3.38	-			
PK	2.4882G	69.35	74.00	-4.65	38.27	3	Horizontal	15	2.45	-	27.68	3.40	-			
AV	2.4835G	53.76	54.00	-0.24	22.72	3	Horizontal	15	2.45	-	27.64	3.40	-			

2.4-2.4835GHz_802.11n HT20_Nss1,(MCS0)_1TX

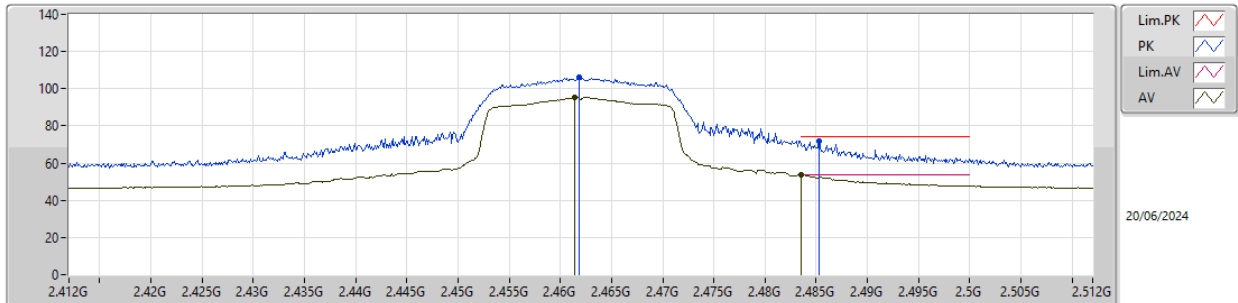
2462MHz_TX

EUT Y_1TX
SET 63
63
5.21

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.4621G	99.11	Inf	-Inf	67.09	3	Vertical	45	1.80	63	27.40	4.62	-			
AV	2.4625G	88.99	Inf	-Inf	56.97	3	Vertical	45	1.80	63	27.40	4.62	-			
PK	2.484G	66.85	74.00	-7.15	34.75	3	Vertical	45	1.80	63	27.50	4.60	-			
AV	2.4836G	48.79	54.00	-5.21	16.69	3	Vertical	45	1.80	63	27.50	4.60	-			

2.4-2.4835GHz_802.11n HT20_Nss1,(MCS0)_1TX

2462MHz_TX

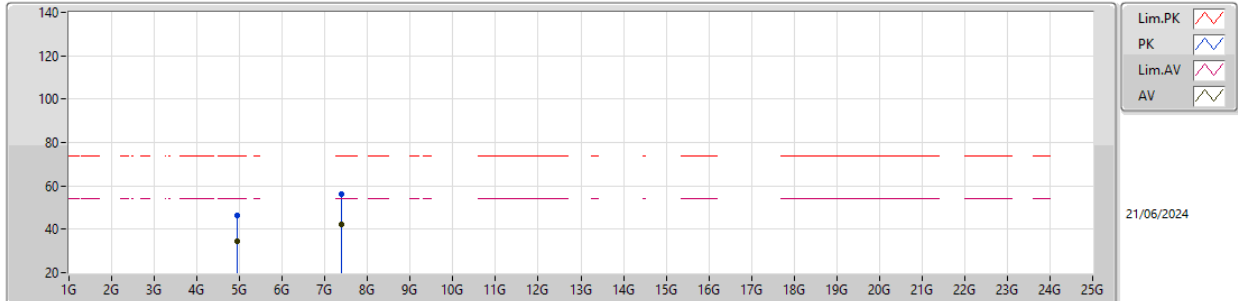


EUT_Y_1TX
SET 63
65\53\59\62\63
-2.97\5.47\3.53\1.24\0.17

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.4618G	105.93	Inf	-Inf	73.91	3	Horizontal	30	1.80	63	27.40	4.62	-			
AV	2.4614G	95.47	Inf	-Inf	63.45	3	Horizontal	30	1.80	63	27.40	4.62	-			
PK	2.4853G	71.67	74.00	-2.33	39.57	3	Horizontal	30	1.80	63	27.50	4.60	-			
AV	2.4835G	53.83	54.00	-0.17	21.73	3	Horizontal	30	1.80	63	27.50	4.60	-			

2.4-2.4835GHz_802.11n_HT20_Nss1,(MCS0)_1TX

2462MHz_TX

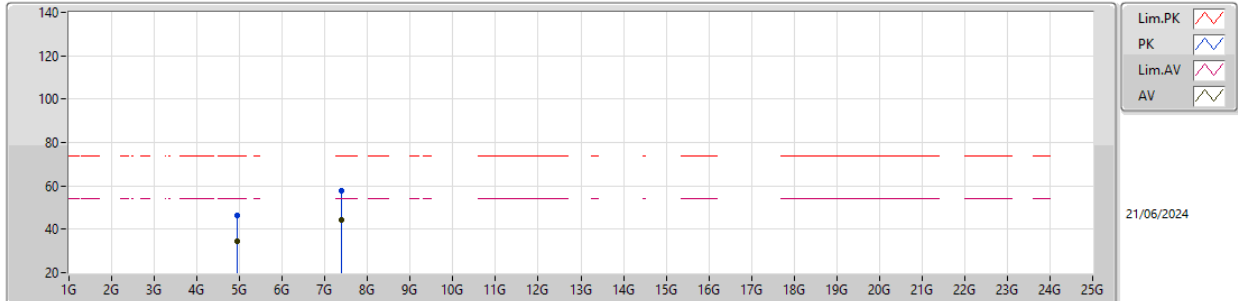


EUT_Y_1TX
SET 63
01-I-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.93558G	46.55	74.00	-27.45	40.64	3	Vertical	53	2.27	-	31.44	7.05	32.58			
AV	4.93876G	34.69	54.00	-19.31	28.76	3	Vertical	53	2.27	-	31.46	7.05	32.58			
PK	7.38492G	56.35	74.00	-17.65	44.14	3	Vertical	40	1.13	-	36.10	8.71	32.60			
AV	7.38546G	42.42	54.00	-11.58	30.21	3	Vertical	40	1.13	-	36.10	8.71	32.60			

2.4-2.4835GHz_802.11n_HT20_Nss1,(MCS0)_1TX

2462MHz_TX

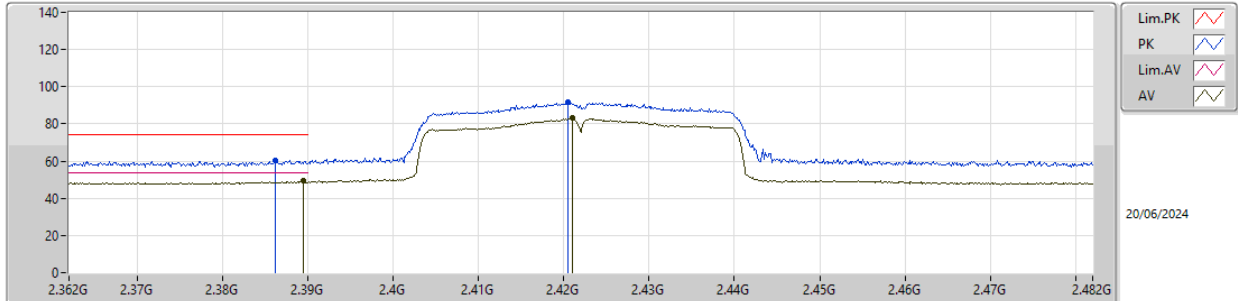


EUT_Y_1TX
SET 63
01-I-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.93156G	46.60	74.00	-27.40	40.71	3	Horizontal	133	1.14	-	31.43	7.04	32.58			
AV	4.93882G	34.69	54.00	-19.31	28.76	3	Horizontal	133	1.14	-	31.46	7.05	32.58			
PK	7.38576G	57.51	74.00	-16.49	45.30	3	Horizontal	322	1.80	-	36.10	8.71	32.60			
AV	7.38516G	44.51	54.00	-9.49	32.30	3	Horizontal	322	1.80	-	36.10	8.71	32.60			

2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX

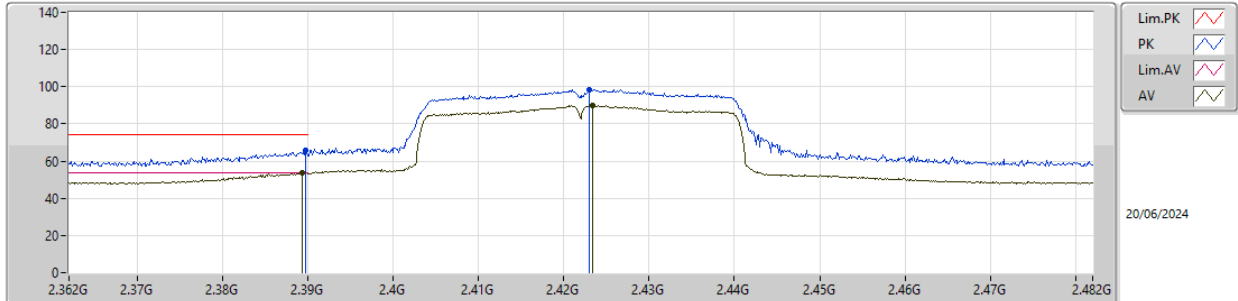
2422MHz_TX

EUT Y_1TX
SET 50
50
4.71

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.38612G	60.36	74.00	-13.64	28.01	3	Vertical	41	1.80	50	27.70	4.65	-			
AV	2.38948G	49.29	54.00	-4.71	16.94	3	Vertical	41	1.80	50	27.70	4.65	-			
PK	2.42044G	91.85	Inf	-Inf	59.50	3	Vertical	41	1.80	50	27.70	4.65	-			
AV	2.42104G	83.03	Inf	-Inf	50.69	3	Vertical	41	1.80	50	27.69	4.65	-			

2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX

2422MHz_TX



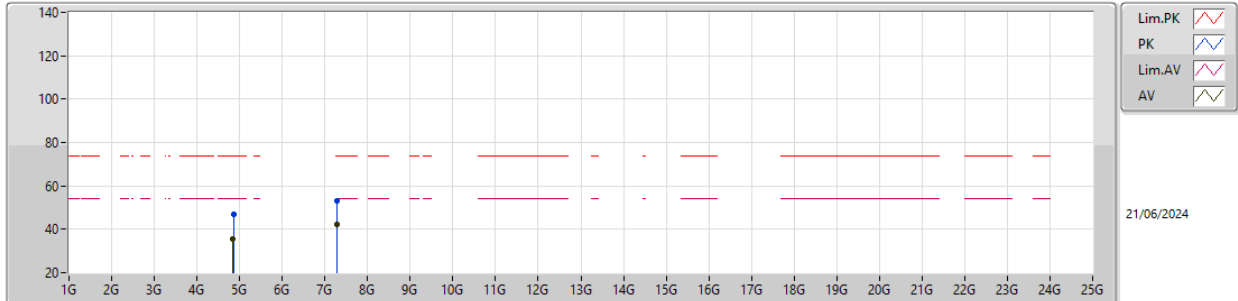
20/06/2024

EUT Y_1TX
SET 50
80\48\64\56\52\50
-12.91\0.73\ -4.86\ -1.36\ -0.93\0.05

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.38972G	65.68	74.00	-8.32	33.32	3	Horizontal	330	1.80	50	27.70	4.66	-			
AV	2.38936G	53.95	54.00	-0.05	21.60	3	Horizontal	330	1.80	50	27.70	4.65	-			
PK	2.42296G	98.64	Inf	-Inf	66.32	3	Horizontal	330	1.80	50	27.67	4.65	-			
AV	2.42332G	89.90	Inf	-Inf	57.58	3	Horizontal	330	1.80	50	27.67	4.65	-			

2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX

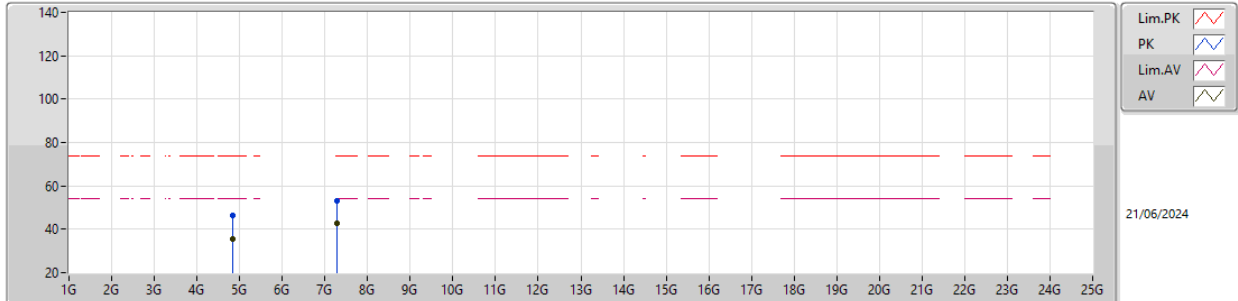
2422MHz_TX

EUT Y_1TX
SET 50
01-I-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.85462G	46.80	74.00	-27.20	41.11	3	Vertical	7	2.74	-	31.30	6.96	32.57			
AV	4.83224G	35.69	54.00	-18.31	30.02	3	Vertical	7	2.74	-	31.30	6.94	32.57			
PK	7.2765G	53.27	74.00	-20.73	41.08	3	Vertical	281	2.38	-	36.25	8.58	32.64			
AV	7.2804G	42.35	54.00	-11.65	30.14	3	Vertical	281	2.38	-	36.26	8.59	32.64			

2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX

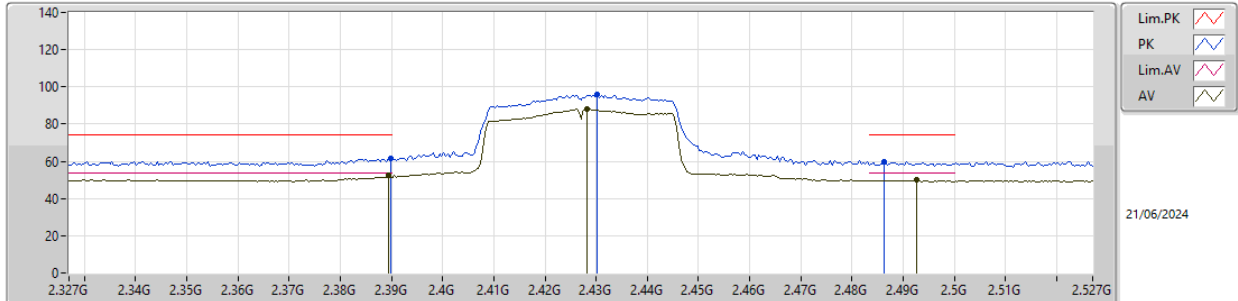
2422MHz_TX

EUT_Y_1TX
SET 50
01-I-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.83452G	46.35	74.00	-27.65	40.68	3	Horizontal	181	1.34	-	31.30	6.94	32.57			
AV	4.8401G	35.72	54.00	-18.28	30.04	3	Horizontal	181	1.34	-	31.30	6.95	32.57			
PK	7.27026G	53.03	74.00	-20.97	40.87	3	Horizontal	274	1.62	-	36.24	8.57	32.65			
AV	7.2729G	42.62	54.00	-11.38	30.44	3	Horizontal	274	1.62	-	36.25	8.58	32.65			

2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX

2427MHz_TX

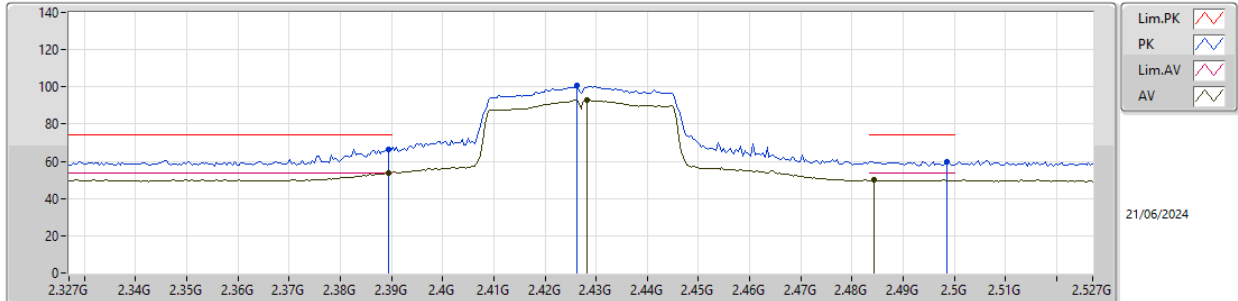


EUT Y_1TX
SET 55
01-I-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.3898G	61.84	74.00	-12.16	29.48	3	Vertical	24	3.00	-	27.70	4.66	-			
AV	2.3894G	52.51	54.00	-1.49	20.16	3	Vertical	24	3.00	-	27.70	4.65	-			
PK	2.4302G	95.88	Inf	-Inf	63.64	3	Vertical	24	3.00	-	27.60	4.64	-			
AV	2.4282G	88.23	Inf	-Inf	55.96	3	Vertical	24	3.00	-	27.62	4.65	-			
PK	2.4862G	59.76	74.00	-14.24	27.66	3	Vertical	24	3.00	-	27.50	4.60	-			
AV	2.4926G	49.97	54.00	-4.03	17.88	3	Vertical	24	3.00	-	27.50	4.59	-			

2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX

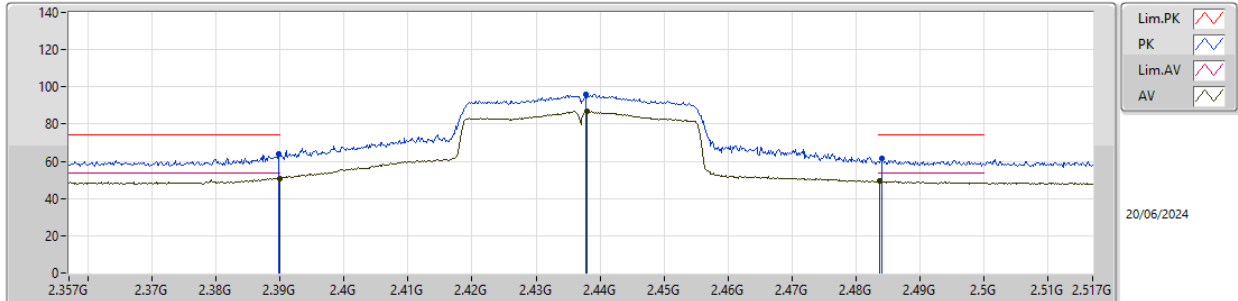
2427MHz_TX

EUT Y_1TX
SET 55
01-I-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.3894G	66.66	74.00	-7.34	34.31	3	Horizontal	328	2.04	-	27.70	4.65	-			
AV	2.3894G	53.94	54.00	-0.06	21.59	3	Horizontal	328	2.04	-	27.70	4.65	-			
PK	2.4262G	100.82	Inf	-Inf	68.53	3	Horizontal	328	2.04	-	27.64	4.65	-			
AV	2.4282G	93.18	Inf	-Inf	60.91	3	Horizontal	328	2.04	-	27.62	4.65	-			
PK	2.4986G	59.93	74.00	-14.07	27.84	3	Horizontal	328	2.04	-	27.50	4.59	-			
AV	2.4842G	50.01	54.00	-3.99	17.91	3	Horizontal	328	2.04	-	27.50	4.60	-			

2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX

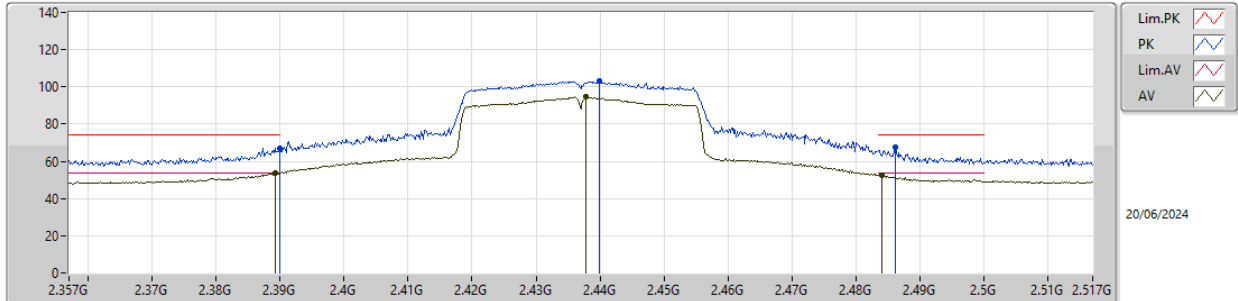
2437MHz_TX

EUT Y_1TX
SET 69
69
3.07

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.3898G	63.83	74.00	-10.17	31.47	3	Vertical	35	1.05	69	27.70	4.66	-			
AV	2.38996G	50.93	54.00	-3.07	18.57	3	Vertical	35	1.05	69	27.70	4.66	-			
PK	2.4378G	95.86	Inf	-Inf	63.70	3	Vertical	35	1.05	69	27.52	4.64	-			
AV	2.43796G	87.12	Inf	-Inf	54.96	3	Vertical	35	1.05	69	27.52	4.64	-			
PK	2.48404G	61.45	74.00	-12.55	29.35	3	Vertical	35	1.05	69	27.50	4.60	-			
AV	2.48372G	49.23	54.00	-4.77	17.13	3	Vertical	35	1.05	69	27.50	4.60	-			

2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX

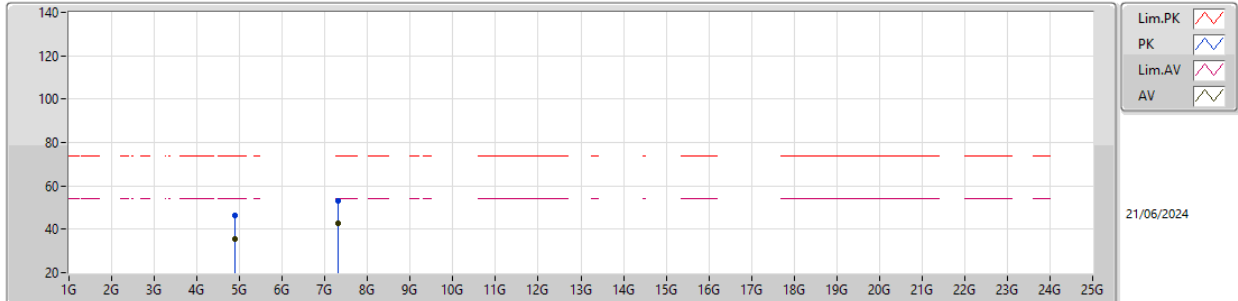
2437MHz_TX

EUT Y_1TX
SET 69
50\69
4.82\0.30

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.38996G	67.25	74.00	-6.75	34.89	3	Horizontal	330	1.80	69	27.70	4.66	-			
AV	2.38932G	53.70	54.00	-0.30	21.35	3	Horizontal	330	1.80	69	27.70	4.65	-			
PK	2.43988G	103.28	Inf	-Inf	71.14	3	Horizontal	330	1.80	69	27.50	4.64	-			
AV	2.4378G	94.72	Inf	-Inf	62.56	3	Horizontal	330	1.80	69	27.52	4.64	-			
PK	2.48612G	67.54	74.00	-6.46	35.44	3	Horizontal	330	1.80	69	27.50	4.60	-			
AV	2.48404G	52.26	54.00	-1.74	20.16	3	Horizontal	330	1.80	69	27.50	4.60	-			

2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX

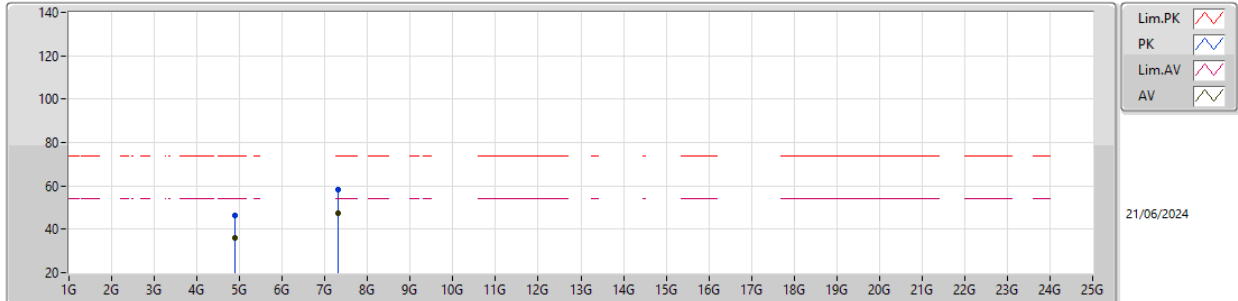
2437MHz_TX

EUT_Y_1TX
SET 69
01-I-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.88312G	46.42	74.00	-27.58	40.71	3	Vertical	267	1.15	-	31.30	6.99	32.58			
AV	4.88564G	35.77	54.00	-18.23	30.05	3	Vertical	267	1.15	-	31.30	7.00	32.58			
PK	7.3134G	53.11	74.00	-20.89	40.86	3	Vertical	164	2.04	-	36.25	8.63	32.63			
AV	7.30824G	42.86	54.00	-11.14	30.60	3	Vertical	164	2.04	-	36.27	8.62	32.63			

2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX

2437MHz_TX

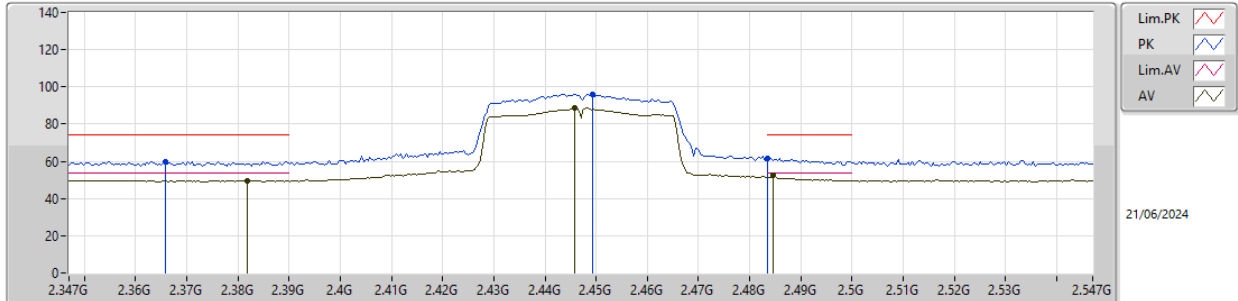


EUT_Y_1TX
SET 69
01-I-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.8788G	46.30	74.00	-27.70	40.59	3	Horizontal	93	2.82	-	31.30	6.99	32.58			
AV	4.88828G	35.87	54.00	-18.13	30.15	3	Horizontal	93	2.82	-	31.30	7.00	32.58			
PK	7.30122G	58.47	74.00	-15.53	46.20	3	Horizontal	360	1.80	-	36.30	8.61	32.64			
AV	7.30758G	47.18	54.00	-6.82	34.92	3	Horizontal	360	1.80	-	36.27	8.62	32.63			

2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX

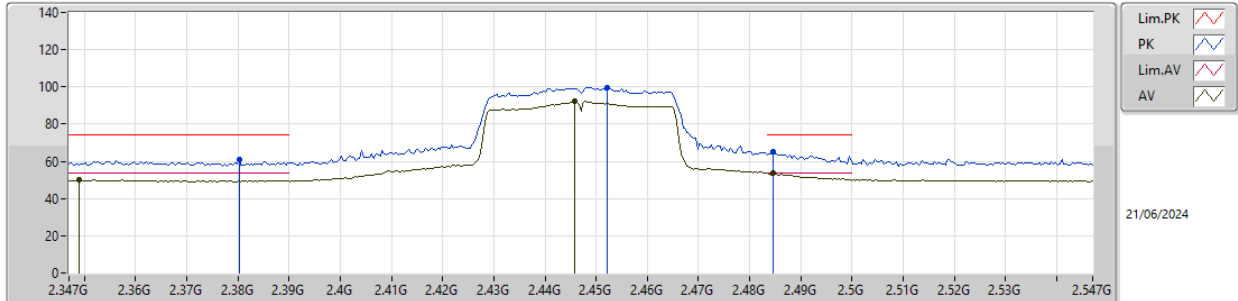
2447MHz_TX

EUT_Y_1TX
SET 57
01-I-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.3658G	59.76	74.00	-14.24	27.30	3	Vertical	35	2.84	-	27.84	4.62	-			
AV	2.3818G	49.74	54.00	-4.26	17.40	3	Vertical	35	2.84	-	27.70	4.64	-			
PK	2.4494G	96.03	Inf	-Inf	63.90	3	Vertical	35	2.84	-	27.50	4.63	-			
AV	2.4458G	88.69	Inf	-Inf	56.56	3	Vertical	35	2.84	-	27.50	4.63	-			
PK	2.4835G	61.57	74.00	-12.43	29.47	3	Vertical	35	2.84	-	27.50	4.60	-			
AV	2.4846G	52.39	54.00	-1.61	20.29	3	Vertical	35	2.84	-	27.50	4.60	-			

2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX

2447MHz_TX

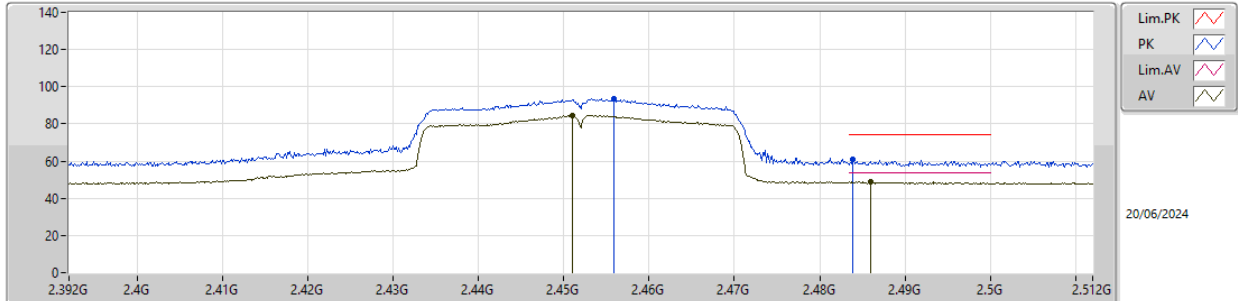


EUT Y_1TX
SET 57
01-I-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.3802G	60.97	74.00	-13.03	28.63	3	Horizontal	327	1.80	-	27.70	4.64	-			
AV	2.349G	49.90	54.00	-4.10	17.30	3	Horizontal	327	1.80	-	28.00	4.60	-			
PK	2.4522G	99.63	Inf	-Inf	67.52	3	Horizontal	327	1.80	-	27.48	4.63	-			
AV	2.4458G	92.21	Inf	-Inf	60.08	3	Horizontal	327	1.80	-	27.50	4.63	-			
PK	2.4846G	65.07	74.00	-8.93	32.97	3	Horizontal	327	1.80	-	27.50	4.60	-			
AV	2.4846G	53.84	54.00	-0.16	21.74	3	Horizontal	327	1.80	-	27.50	4.60	-			

2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX

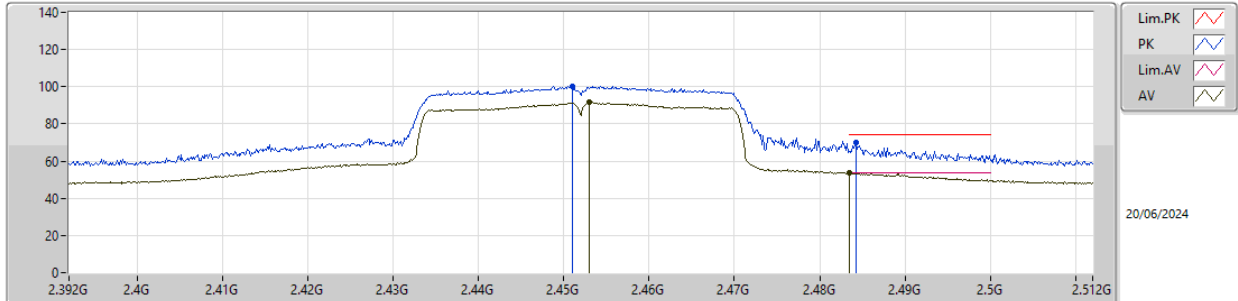
2452MHz_TX

EUT Y_1TX
SET 57
57
5.07

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	2.45584G	93.55	Inf	-Inf	61.49	3	Vertical	43	1.80	57	27.44	4.62	-				
AV	2.45104G	84.67	Inf	-Inf	52.55	3	Vertical	43	1.80	57	27.49	4.63	-				
PK	2.48392G	60.77	74.00	-13.23	28.67	3	Vertical	43	1.80	57	27.50	4.60	-				
AV	2.48596G	48.93	54.00	-5.07	16.83	3	Vertical	43	1.80	57	27.50	4.60	-				

2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX

2452MHz_TX

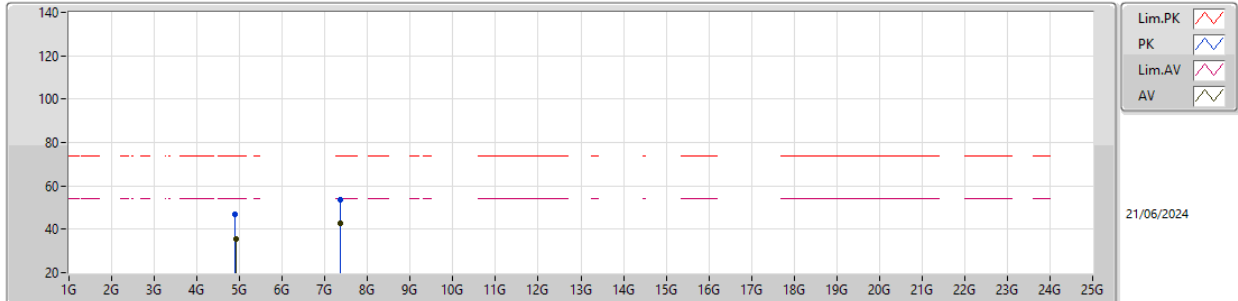


EUT_Y_1TX
SET 57
50\57
1.75\0.30

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.45104G	100.36	Inf	-Inf	68.24	3	Horizontal	29	1.80	57	27.49	4.63	-			
AV	2.45296G	91.79	Inf	-Inf	59.70	3	Horizontal	29	1.80	57	27.47	4.62	-			
PK	2.48428G	70.06	74.00	-3.94	37.96	3	Horizontal	29	1.80	57	27.50	4.60	-			
AV	2.4835G	53.70	54.00	-0.30	21.60	3	Horizontal	29	1.80	57	27.50	4.60	-			

2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX

2452MHz_TX

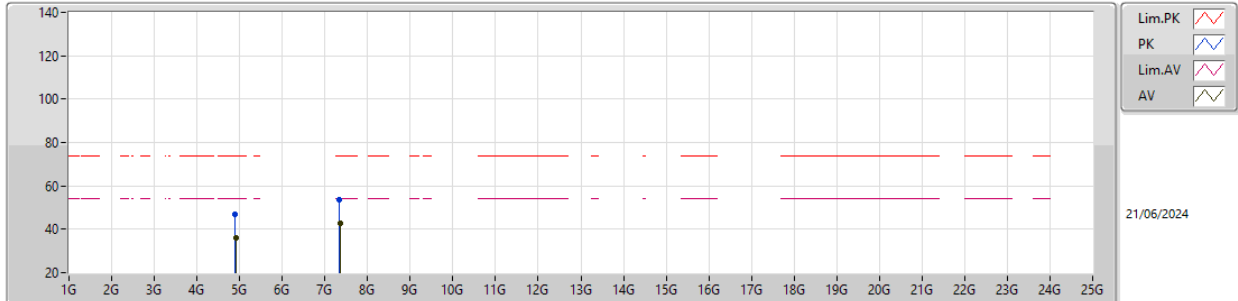


EUT_Y_1TX
SET 57
01-I-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.8929G	47.14	74.00	-26.86	41.42	3	Vertical	119	2.93	-	31.30	7.00	32.58			
AV	4.9055G	35.76	54.00	-18.24	30.00	3	Vertical	119	2.93	-	31.32	7.02	32.58			
PK	7.36932G	53.82	74.00	-20.18	41.64	3	Vertical	282	1.62	-	36.10	8.69	32.61			
AV	7.37016G	42.71	54.00	-11.29	30.53	3	Vertical	282	1.62	-	36.10	8.69	32.61			

2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX

2452MHz_TX



EUT_Y_1TX
SET 57
01-I-J-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.88912G	46.87	74.00	-27.13	41.15	3	Horizontal	59	2.13	-	31.30	7.00	32.58			
AV	4.90424G	35.91	54.00	-18.09	30.16	3	Horizontal	59	2.13	-	31.32	7.01	32.58			
PK	7.34406G	53.45	74.00	-20.55	41.29	3	Horizontal	248	1.90	-	36.12	8.66	32.62			
AV	7.3647G	42.75	54.00	-11.25	30.57	3	Horizontal	248	1.90	-	36.10	8.69	32.61			