



# RADIO TEST REPORT

**FCC ID** : UDX-600201010  
**Equipment** : Cisco Wireless 9176D1 Series Wi-Fi 7 Access Point  
**Brand Name** : CISCO  
**Model Name** : CW9176D1  
**Applicant** : Cisco Systems, Inc.  
170 West Tasman Drive, San Jose, CA 95134 USA  
**Manufacturer** : Cisco Systems, Inc.  
170 West Tasman Drive, San Jose, CA 95134 USA  
**Standard** : 47 CFR FCC Part 15.247

The product was received on Mar. 07, 2024, and testing was started from Apr. 20, 2024 and completed on Jun. 17, 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 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.)



## Table of Contents

<b>History of this test report.....</b>	<b>3</b>
<b>Summary of Test Result.....</b>	<b>4</b>
<b>1 General Description .....</b>	<b>5</b>
1.1 Information.....	5
1.2 Applicable Standards .....	12
1.3 Testing Location Information .....	12
1.4 Measurement Uncertainty .....	13
<b>2 Test Configuration of EUT.....</b>	<b>14</b>
2.1 Test Channel Mode .....	14
2.2 The Worst Case Measurement Configuration.....	15
2.3 EUT Operation during Test .....	18
2.4 Accessories .....	18
2.5 Support Equipment.....	19
2.6 Test Setup Diagram .....	20
<b>3 Transmitter Test Result .....</b>	<b>23</b>
3.1 AC Power-line Conducted Emissions .....	23
3.2 DTS Bandwidth.....	25
3.3 Maximum Conducted Output Power .....	26
3.4 Power Spectral Density .....	29
3.5 Emissions in Non-restricted Frequency Bands .....	31
3.6 Emissions in Restricted Frequency Bands.....	32
<b>4 Test Equipment and Calibration Data .....</b>	<b>36</b>
<b>Appendix A. Test Results of AC Power-line Conducted Emissions</b>	
<b>Appendix B. Test Results of DTS Bandwidth</b>	
<b>Appendix C. Test Results of Maximum Conducted Output Power</b>	
<b>Appendix D. Test Results of Power Spectral Density</b>	
<b>Appendix E. Test Results of Emissions in Non-restricted Frequency Bands</b>	
<b>Appendix F. Test Results of Emissions in Restricted Frequency Bands</b>	
<b>Appendix G. Test Photos</b>	
<b>Photographs of EUT v01</b>	



## History of this test report

TEL : 886-3-656-9065  
FAX : 886-3-656-9085  
Report Template No.: CB-A10\_6 Ver1.3

Page Number : 3 of 37  
Issued Date : Nov. 05, 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	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.247(a)	DTS Bandwidth	PASS	-
3.3	15.247(b)	Maximum Conducted Output Power	PASS	-
3.4	15.247(e)	Power Spectral Density	PASS	-
3.5	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
3.6	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: Wendy Pan**



# 1 General Description

## 1.1 Information

### 1.1.1 RF General Information

Frequency Range (MHz)	Bluetooth Mode	Ch. Frequency (MHz)	Channel Number
2400-2483.5	LE	2402-2480	0-39 [40]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	BT-LE(1Mbps)	1	1
2.4-2.4835GHz	BT-LE(500Kb/s)	1	1
2.4-2.4835GHz	BT-LE(125Kb/s)	1	1
2.4-2.4835GHz	BT-LE(2Mbps)	2	1

Note:

- ♦ Bluetooth LE uses a GFSK modulation.
- ♦ BWch is the nominal channel bandwidth.

**1.1.2 Antenna Information**

Ant.	RF Port	Brand Name	Model Name	Ant. Type	Connector	Gain (dBi)	Modes of Operation
1	4	WNC	95XPAD15.G20	Dipole	I-PEX	Note 1	2.4GHz, 5GHz UNII 1~2A (Radio 1)
2	3	WNC	95XPAD15.G21	Dipole	I-PEX		
3	1	WNC	95XPAD15.G22	Dipole	I-PEX		
4	2	WNC	95XPAD15.G23	Dipole	I-PEX		
5	1	WNC	95XPAD15.G24	Dipole	I-PEX		5GHz UNII 1~3 or UNII 2C~3 only (Radio 2)
6	2	WNC	95XPAD15.G24	Dipole	I-PEX		
7	3	WNC	95XPAD15.G26	Dipole	I-PEX		
8	4	WNC	95XPAD15.G26	Dipole	I-PEX		
9	1	WNC	95XPAD15.G28	Dipole	I-PEX		6GHz UNII 5~8 (Radio 3)
10	3	WNC	95XPAD15.G30	Dipole	I-PEX		
11	4	WNC	95XPAD15.G31	Dipole	I-PEX		
12	2	WNC	95XPAD15.G29	Dipole	I-PEX		2.4GHz, 5GHz UNII 1~3, 6GHz UNII 5~8 (Radio 4(Pine Scanning radio))
13	1	WNC	95XPAD15.G34	Dipole	I-PEX		
14	2	WNC	95XPAD15.G35	Dipole	I-PEX		
15	1	WNC	95XPAD15.G32	loop	I-PEX		Bluetooth and Zigbee (Radio 5)
16	1	WNC	95XPAD15.G33	PIFA	I-PEX	1.16GHz~1.19GHz: 2.05 1.56GHz~1.59GHz: 1.92	GPS (Radio 6)
17	1	WNC	95XPAD15.G37	Patch	I-PEX	6.5	UWB (Radio 7)
18	2	WNC			I-PEX	7.0	



Note 1:

Ant.	Antenna Gain (dBi)								
	WLAN 2.4GHz (Radio 1)		WLAN 5GHz UNII 1~2A (Radio 1)						
			5.2GHz			5.3GHz			
1	6.7		4.23			4.64			
2	6.96		5.45			5.05			
3	6.72		6.52			5.7			
4	6.96		4.06			4.21			
Ant.	WLAN 5GHz UNII 1~3 (Radio 2)								
	5.2GHz		5.3GHz		5.6GHz		5.785GHz		
	5	6.21	5.73		7.11		6.39		
6	4.56		4.46		5.7		6.19		
7	5.8		5.89		7.2		6.62		
8	3.9		4.02		5.38		5.11		
Ant.	WLAN 6GHz UNII 5~8 (Radio 3)								
	6.175GHz		6.475GHz		6.695GHz		6.995GHz		
	9	5.86	7.14		6.85		6.41		
10	5.4		6.24		5.99		5.87		
11	5.64		6.22		5.45		6.4		
12	5.54		6.43		5.64		6.44		
Ant.	WLAN 2.4GHz/5GHz UNII 1~3/WLAN 6GHz UNII 5~8 (Radio 4(Pine Scanning radio))								
	2.45GHz	5.2GHz	5.3GHz	5.6GHz	5.785GHz	6.175GHz	6.475GHz	6.695GHz	6.995GHz
	13	8.02	3.93	4.57	5.47	5.9	7.71	7.64	6.98
14	8.15	4.82	4.94	4.26	5.26	6.47	7.73	6.59	6.5
Ant.	Bluetooth/Zigbee (Radio 5)								
	15	6.92							

Note 2:

Item	Directional Gain (dBi)							
	WLAN 2.4GHz (Radio 1)		WLAN 5GHz UNII 1~2A (Radio 1)					
			5.2GHz			5.3GHz		
2T1S	8.53		6.52			5.7		
2T2S	6.96		6.52			5.7		
4T1S	10.12		8.28			8.25		
4T2S	7.12		6.52			5.7		
4T4S	6.96		6.52			5.7		
Item	WLAN 5GHz UNII 1~3 (Radio 2) / WLAN 6GHz UNII 5~8 (Radio 3)							
	5.2GHz	5.3GHz	5.6GHz	5.785GHz	6.175GHz	6.475GHz	6.695GHz	6.995GHz
2T1S	6.68	6.22	7.11	6.88	6.49	7.14	6.85	6.66
2T2S	6.21	5.73	7.11	6.39	5.86	7.14	6.85	6.44
4T1S	8.67	8.73	9.22	9.47	8.32	9.43	8.69	8.92
4T2S	6.21	5.89	7.2	6.62	5.86	7.14	6.85	6.44
4T4S	6.21	5.89	7.2	6.62	5.86	7.14	6.85	6.44

Note 3: The above information (excepting Ant. 1~15 antenna gain and directional gain) was declared by manufacturer.

Note 4: Radio 1~3: Maximum Directional Gain following KDB662911 D03.

**For Radio 1**

**For 2.4GHz IEEE 802.11b/g/n/VHT/ax/be mode (1TX, 2TX, 4TX/4RX) and  
For 5GHz (UNII 1~2A) IEEE 802.11a/n/ac/ax/be mode (1TX, 2TX, 4TX/4RX):**

**1TX**

Only Port 1 can be use as transmitting antenna.

**2TX**

Port 1, Port 2 can be use as transmitting antenna.

Port 1, Port 2 could transmitting simultaneously.

**4TX**

Port 1, Port 2, Port 3 and Port 4 can be used as transmitting antenna.

Port 1, Port 2, Port 3 and Port 4 could transmit simultaneously.

**4RX**

Port 1, Port 2, Port 3, Port 4 can be used as receiving antennas.



Port 1, Port 2, Port 3, Port 4 could receive simultaneously.

**For Radio 2**

**For 5GHz (UNII 1~3 or UNII 2C~3):**

**For IEEE 802.11a/n/ac/ax/be mode (1TX, 2TX, 4TX/4RX):**

**1TX**

Only Port 1 can be use as transmitting antenna.

**2TX**

Port 1, Port 2 can be use as transmitting antenna.

Port 1, Port 2 could transmitting simultaneously.

**4TX**

Port 1, Port 2, Port 3 and Port 4 can be used as transmitting antenna.

Port 1, Port 2, Port 3 and Port 4 could transmit simultaneously.

**4RX**

Port 1, Port 2, Port 3, Port 4 can be used as receiving antennas.

Port 1, Port 2, Port 3, Port 4 could receive simultaneously.

**For Radio 3**

**For 6GHz (UNII 5~8):**

**For IEEE 802.11ax/be mode (1TX, 2TX, 4TX/4RX):**

**1TX**

Only Port 1 can be use as transmitting antenna.

**2TX**

Port 1, Port 2 can be use as transmitting antenna.

Port 1, Port 2 could transmitting simultaneously.

**4TX**

Port 1, Port 2, Port 3 and Port 4 can be used as transmitting antenna.

Port 1, Port 2, Port 3 and Port 4 could transmit simultaneously.

**4RX**

Port 1, Port 2, Port 3, Port 4 can be used as receiving antennas.

Port 1, Port 2, Port 3, Port 4 could receive simultaneously.

**For Radio 4(Pine Scanning radio)**

**For 2.4GHz:**

**For IEEE 802.11b/g/n/VHT/ax mode (1TX/2RX):**

Only Port 1 can be used as transmitting/receiving functions.

Port 1~2 could receive simultaneously.

**For 5GHz (UNII 1~3):**

**For IEEE 802.11a/n/ac/ax mode (1TX/2RX):**

Only Port 1 can be used as transmitting/receiving functions.

Port 1~2 could receive simultaneously.

**For 6GHz (UNII 5~8):**

**For IEEE 802.11ax mode (1TX/2RX):**

Only Port 1 can be used as transmitting/receiving functions.

Port 1~2 could receive simultaneously.

**For Radio 5:**

**For Bluetooth/Zigbee mode (1TX/1RX)**

Only Port 1 can be used as transmitting/receiving functions.

**For Radio 6:**

**For GPS (1TX/1RX)**

Only Port 1 can be used as transmitting/receiving functions.

**For Radio 7:**

**For UWB (1TX/2RX)**

Only Port 1 can be used as transmitting functions.

Port 1~2 can be used as receiving antennas.

Port 1~2 could receive simultaneously.

**1.1.3 Mode Test Duty Cycle**

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
BT-LE(1Mbps)	0.638	1.95	400u	3k
BT-LE(2Mbps)	0.344	4.63	215u	10k

Note:

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

**1.1.4 EUT Operational Condition**

<b>EUT Power Type</b>	From PoE			
<b>Function</b>	<input checked="" type="checkbox"/>	Point-to-multipoint	<input type="checkbox"/>	Point-to-point
<b>Test Software Version</b>	Tera Term 4.75			
<b>Support Mode</b>	<input checked="" type="checkbox"/>	LE 1M PHY: 1 Mb/s		
	<input checked="" type="checkbox"/>	LE Coded PHY (S=2): 500 Kb/s		
	<input checked="" type="checkbox"/>	LE Coded PHY (S=8): 125 Kb/s		
	<input checked="" type="checkbox"/>	LE 2M PHY: 2 Mb/s		

Note: The above information was declared by manufacturer.

**1.1.5 Table for Radio function**

Radio \ Function	WLAN 2.4GHz	WLAN 5GHz	WLAN 6GHz	Bluetooth	Zigbee	GPS	UWB
1	V	V (UNII 1~2A)	-	-	-	-	-
2	-	V (UNII 2C~3/ UNII 1~3)	-	-	-	-	-
3	-	-	V	-	-	-	-
4 (Pine Scanning radio)	V	V (UNII 1~3)	V	-	-	-	-
5	-	-	-	V	V	-	-
6	-	-	-	-	-	V	-
7	-	-	-	-	-	-	V

Note1: The above information was declared by manufacturer.

Note2: For WLAN 2.4GHz: The Radio 1 and Radio 4(Pine Scanning radio) can't operate at the same frequency.  
For WLAN 5GHz: The Radio 1, 2 and Radio 4(Pine Scanning radio) can't operate at the same frequency.  
For WLAN 6GHz: The Radio 3 and Radio 4(Pine Scanning radio) can't operate at the same frequency simultaneously.

**1.1.6 Table for Multiple Listing**

Equipment Name	Model Name	SW	Frequencies supported by 320MHz
Cisco Wireless 9176D1 Series Wi-Fi 7 Access Point	CW9176D1	Cisco	6105, 6265, 6425, 6745 MHz
		Meraki	6105, 6265, 6425, 6585, 6745, 6905 MHz

Note: The above information was declared by manufacturer.

**1.1.7 Table for EUT Support Function**

Function	Supports Band
AP Router	2.4GHz, 5GHz UNII 1~3, 6GHz UNII 5~8, Bluetooth, Zigbee, UWB and GPS
Mesh	6GHz UNII 5~8

Note: The above information was declared by manufacturer.

**1.1.8 Table for EUT Operation Function**

Mode	Operation Function
1	Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Bluetooth + Radio 7 UWB
2	Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 2C~3)+ Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Bluetooth + Radio 7 UWB
3	Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Bluetooth + Radio 7 UWB
4	Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Zigbee + Radio 7 UWB
5	Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Zigbee + Radio 7 UWB
6	Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Zigbee + Radio 7 UWB
7	Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Bluetooth + Radio 7 UWB
8	Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Bluetooth + Radio 7 UWB
9	Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Bluetooth + Radio 7 UWB
10	Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Zigbee + Radio 7 UWB
11	Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Zigbee + Radio 7 UWB
12	Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Zigbee + Radio 7 UWB
13	Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Bluetooth + Radio 7 UWB
14	Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 2C~3)+ Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Bluetooth + Radio 7 UWB
15	Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Bluetooth + Radio 7 UWB
16	Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Zigbee + Radio 7 UWB
17	Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Zigbee + Radio 7 UWB
18	Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Zigbee + Radio 7 UWB
19	Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Bluetooth + Radio 7 UWB
20	Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Bluetooth + Radio 7 UWB
21	Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Bluetooth + Radio 7 UWB
22	Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Zigbee + Radio 7 UWB
23	Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Zigbee + Radio 7 UWB
24	Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Zigbee + Radio 7 UWB

Note: The above information was declared by manufacturer.



## 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	KJ Chang	22.7~23.6 / 64~66	Apr. 30, 2024~ May 22, 2024
Radiated below 1GHz	03CH04-CB	Mark Hsu	22.7-23.8 / 56-59	Jun. 07, 2024
Radiated above 1GHz	03CH02-CB	Mark Hsu	21.8-22.9 / 55-58	Apr. 20, 2024~ May 14, 2024
AC Conduction	CO02-CB	Gray Lee	20~21 / 61~62	Jun. 17, 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))

**Before test date: May 28, 2024**

Test Items	Uncertainty	Remark
Radiated Emission (1GHz ~ 18GHz)	4.1 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.2 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	2.2%	Confidence levels of 95%

**After test date: May 27, 2024**

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.4 dB	Confidence levels of 95%
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
BT-LE(1Mbps)
2402MHz
2440MHz
2478MHz
2480MHz
BT-LE(2Mbps)
2402MHz
2440MHz
2478MHz
2480MHz

## 2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
<b>Tests Item</b>	AC power-line conducted emissions
<b>Condition</b>	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
<b>Operating Mode</b>	CTX
1	EUT + Radio 1 WLAN 2.4GHz + PoE 1
2	EUT + Radio 1 WLAN 2.4GHz + PoE 2
3	EUT + Radio 1 WLAN 2.4GHz + PoE 3
4	EUT + Radio 1 WLAN 2.4GHz + PoE 4
5	EUT + Radio 1 WLAN 2.4GHz + PoE 5
6	EUT + Radio 1 WLAN 2.4GHz + PoE 6
7	EUT + Radio 1 WLAN 2.4GHz + PoE 7
8	EUT + Radio 1 WLAN 2.4GHz + PoE 8
Mode 4 has been evaluated to be the worst case among Mode 1~8, thus measurement for Mode 9~16 will follow this same test mode.	
9	EUT + Radio 1 WLAN 5GHz (Low Band) + PoE 4
10	EUT + Radio 2 WLAN 5GHz + PoE 4
11	EUT + Radio 3 WLAN 6GHz + PoE 4
12	EUT + Radio 4(Pine Scanning radio) WLAN 2.4GHz + PoE 4
13	EUT + Radio 4(Pine Scanning radio) WLAN 5GHz + PoE 4
14	EUT + Radio 4(Pine Scanning radio) WLAN 6GHz + PoE 4
15	EUT + Radio 5 Bluetooth + PoE 4
16	EUT + Radio 5 Zigbee + PoE 4
For operating mode 9 is the worst case and it was record in this test report.	

The Worst Case Mode for Following Conformance Tests	
<b>Tests Item</b>	DTS Bandwidth Maximum Conducted Output Power Power Spectral Density Emissions in Non-restricted Frequency Bands
<b>Test Condition</b>	Conducted measurement at transmit chains
<b>Test Mode</b>	EUT + Radio 5



<b>The Worst Case Mode for Following Conformance Tests</b>	
<b>Tests Item</b>	Emissions in Restricted Frequency Bands
<b>Test Condition</b>	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.
<b>Operating Mode &lt; 1GHz</b>	CTX
After evaluating, the worst case was found at as below for Emissions in Restricted Frequency Bands above 1GHz. Thus, the measurement will follow this same test configuration.	
1	EUT in X axis + Radio 1 WLAN 2.4GHz + PoE 1
2	EUT in X axis + Radio 1 WLAN 2.4GHz + PoE 2
3	EUT in X axis + Radio 1 WLAN 2.4GHz + PoE 3
4	EUT in X axis + Radio 1 WLAN 2.4GHz + PoE 4
5	EUT in X axis + Radio 1 WLAN 2.4GHz + PoE 5
6	EUT in X axis + Radio 1 WLAN 2.4GHz + PoE 6
7	EUT in X axis + Radio 1 WLAN 2.4GHz + PoE 7
8	EUT in X axis + Radio 1 WLAN 2.4GHz + PoE 8
Mode 1 has been evaluated to be the worst case among Mode 1~8, thus measurement for Mode 9~16 will follow this same test mode.	
9	EUT in X axis + Radio 1 WLAN 5GHz (Low Band) + PoE 1
10	EUT in X axis + Radio 2 WLAN 5GHz + PoE 1
11	EUT in X axis + Radio 3 WLAN 6GHz + PoE 1
12	EUT in X axis + Radio 4(Pine Scanning radio) WLAN 2.4GHz + PoE 1
13	EUT in Y axis + Radio 4(Pine Scanning radio) WLAN 5GHz + PoE 1
14	EUT in Y axis + Radio 4(Pine Scanning radio) WLAN 6GHz + PoE 1
15	EUT in Z axis + Radio 5 Bluetooth + PoE 1
16	EUT in X axis + Radio 5 Zigbee + PoE 1
For operating mode 10 is the worst case and it was record in this test report.	
<b>Operating Mode &gt; 1GHz</b>	CTX
After evaluating, and the worst case was found as below. So the measurement will follow this same test configuration.	
1	EUT in Z axis + Radio 5 (Harmonic) EUT in X axis + Radio 5 (Bandedge)



<b>The Worst Case Mode for Following Conformance Tests</b>	
<b>Tests Item</b>	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
<b>Operating Mode</b>	
1	Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Bluetooth + Radio 7 UWB
2	Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 2C~3)+ Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Bluetooth + Radio 7 UWB
3	Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Bluetooth + Radio 7 UWB
4	Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Zigbee + Radio 7 UWB
5	Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Zigbee + Radio 7 UWB
6	Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Zigbee + Radio 7 UWB
7	Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Bluetooth + Radio 7 UWB
8	Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Bluetooth + Radio 7 UWB
9	Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Bluetooth + Radio 7 UWB
10	Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Zigbee + Radio 7 UWB
11	Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Zigbee + Radio 7 UWB
12	Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Zigbee + Radio 7 UWB
13	Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Bluetooth + Radio 7 UWB
14	Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 2C~3)+ Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Bluetooth + Radio 7 UWB
15	Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Bluetooth + Radio 7 UWB
16	Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Zigbee + Radio 7 UWB
17	Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Zigbee + Radio 7 UWB
18	Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Zigbee + Radio 7 UWB
19	Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Bluetooth + Radio 7 UWB



20	Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Bluetooth + Radio 7 UWB
21	Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Bluetooth + Radio 7 UWB
22	Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Zigbee + Radio 7 UWB
23	Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Zigbee + Radio 7 UWB
24	Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Zigbee + Radio 7 UWB
Refer to Sporton Test Report No.: FA430535AB for Co-location RF Exposure Evaluation.	

Note 1: The PoE is for measurement only, would not be marketed.

Their information as below:

Power	Brand	Model
PoE 1	Microsemi	PD-9001GR/AT/AC
PoE 2	PHIHONG	POE29U-1AT(PL)
PoE 3	DELTA	ADH-65AR B
PoE 4	PHIHONG	POEA33U-1ATE
PoE 5	PHIHONG	POE60U-1BT-X
PoE 6	PHIHONG	POE60U-BTA(X66M-R)
PoE 7	PHIHONG	POE60U-BTA(X664-R)
PoE 8	DELTA	ADH-65AR P

## 2.3 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

## 2.4 Accessories

Bracket\*1



## 2.5 Support Equipment

### For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	PoE 4	PHIHONG	POEA33U-1ATE	N/A
B	PC	ASUS	S300TA	N/A
C	Flash disk3.0	Transcend	JetFlash-703	N/A

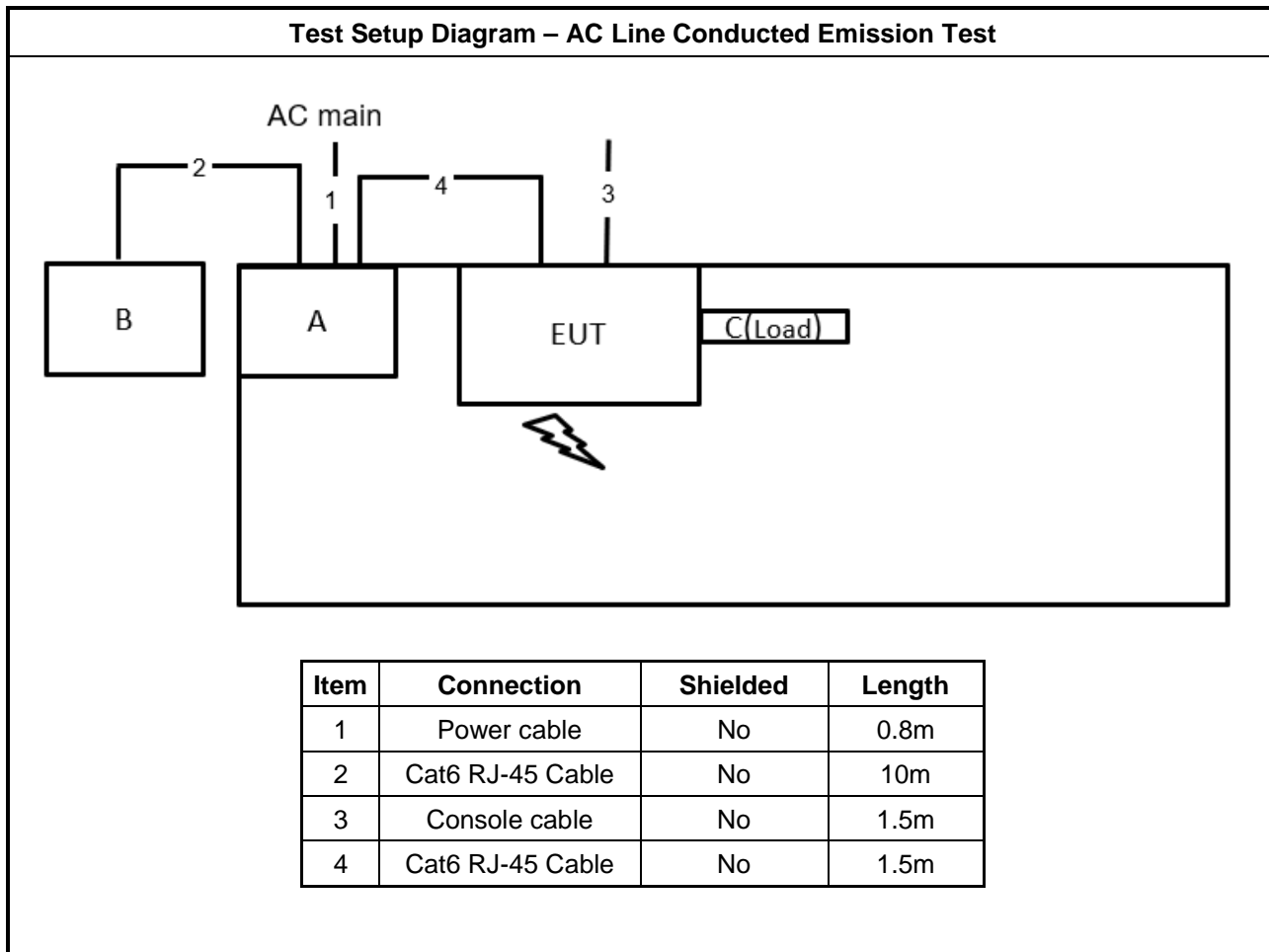
### For Radiated:

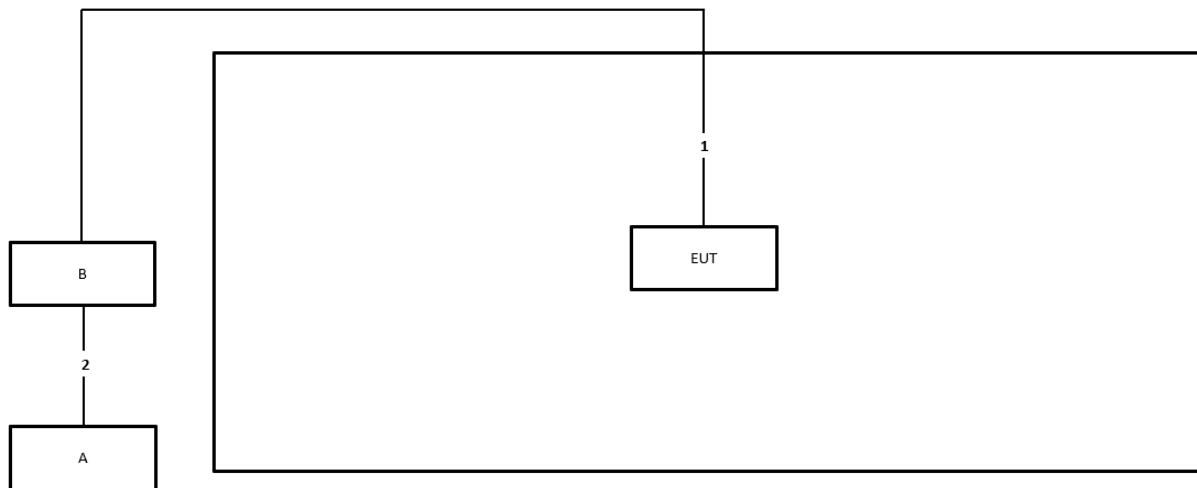
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	PoE 2	PHIHONG	POE29U-1AT(PL)	N/A

### For RF Conducted:

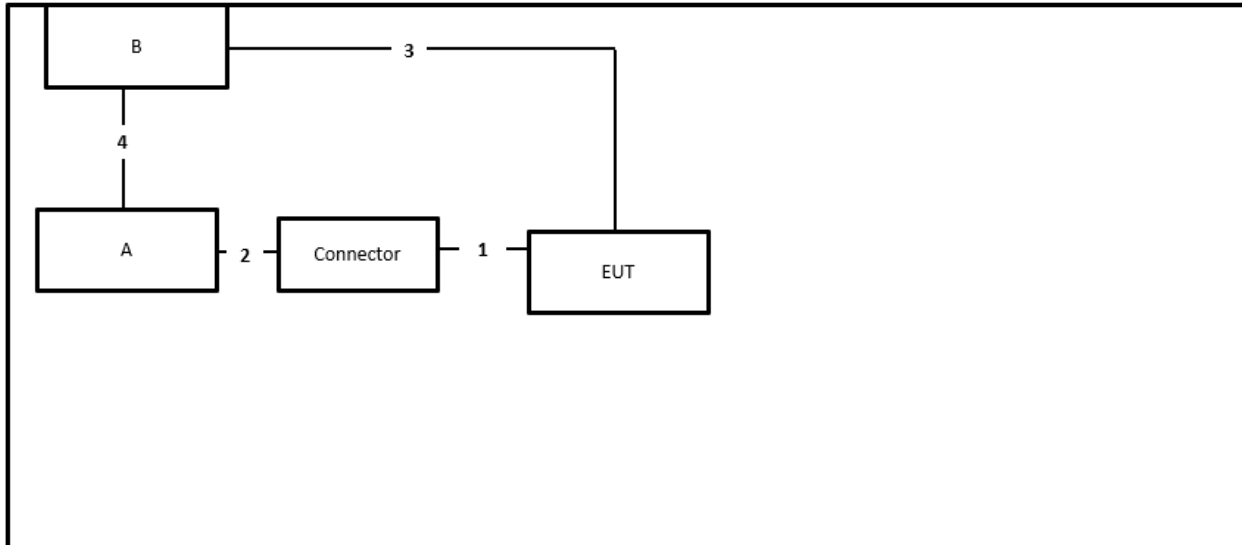
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	PoE 6	PHIHONG	POE60U-BTA(X66M-R)	N/A

## 2.6 Test Setup Diagram



**Test Setup Diagram - Radiated Test < 1GHz**


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

**Test Setup Diagram - Radiated Test > 1GHz**


Item	Connection	Shielded	Length
1	Console cable (RS-232 to RJ-45)	No	1m
2	Console cable (RS-232 to USB)	No	1m
3	RJ-45 cable	No	1m
4	RJ-45 cable	No	1m



### 3 Transmitter Test Result

#### 3.1 AC Power-line Conducted Emissions

##### 3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50
Note 1: * Decreases with the logarithm of the frequency.		

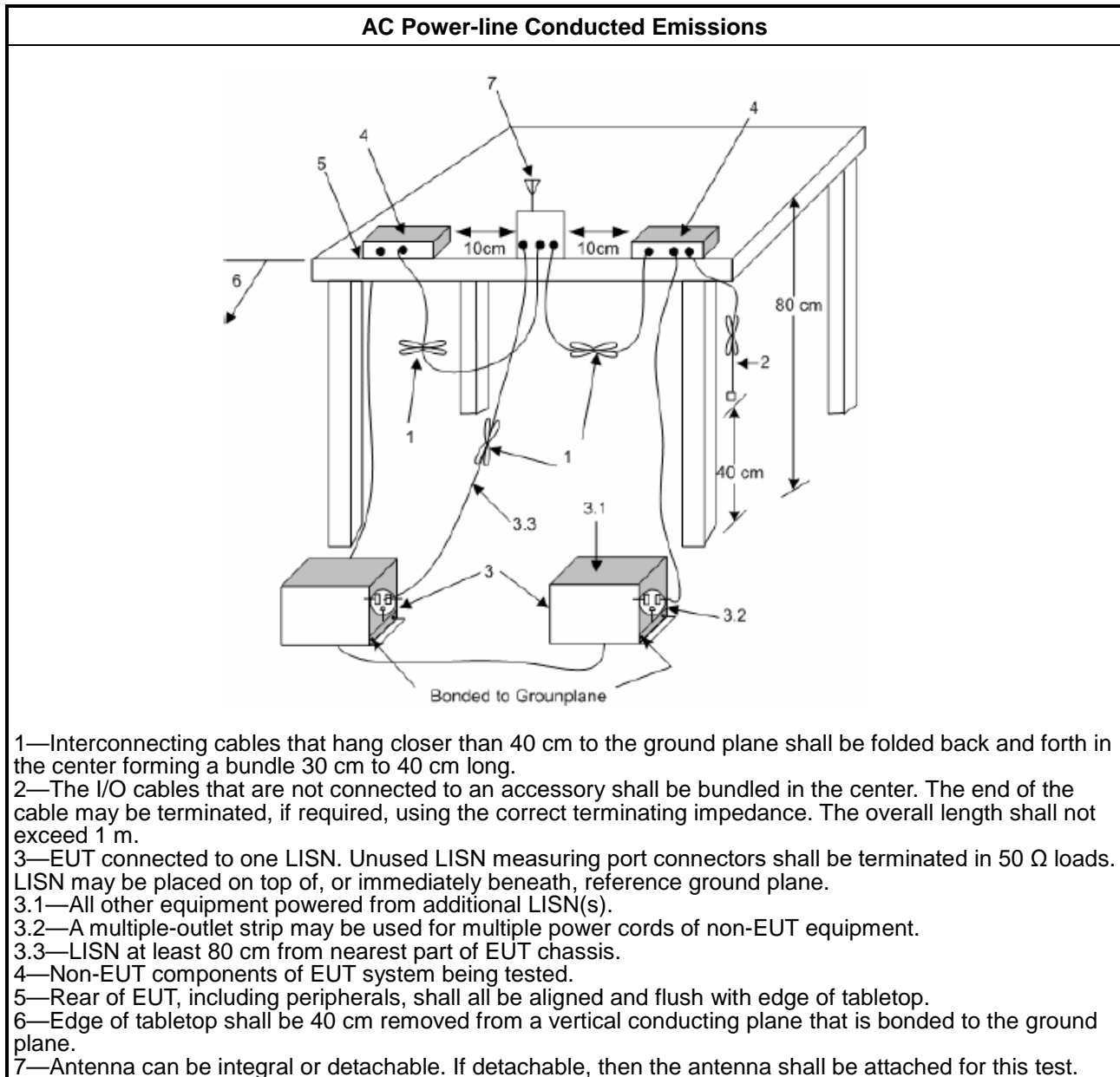
##### 3.1.2 Measuring Instruments

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

##### 3.1.3 Test Procedures

Test Method
▪ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

### 3.1.4 Test Setup



#### 1.1.1. Measurement Results Calculation

The measured Level is calculated using:

- Corrected Reading: LISN Factor (LISN) + Attenuator (AT/AUX) + Cable Loss (CL) + Read Level (Raw) = Level
- Margin = -Limit + Level

### 3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

## 3.2 DTS Bandwidth

### 3.2.1 6dB Bandwidth Limit

6dB Bandwidth Limit
<b>Systems using digital modulation techniques:</b>
<ul style="list-style-type: none"> <li>6 dB bandwidth <math>\geq</math> 500 kHz.</li> </ul>

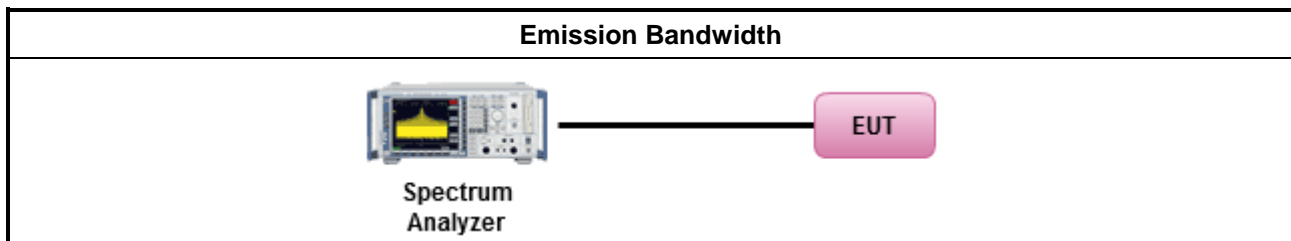
### 3.2.2 Measuring Instruments

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

### 3.2.3 Test Procedures

Test Method
<ul style="list-style-type: none"> <li>For the emission bandwidth shall be measured using one of the options below:</li> </ul>
<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.1 Option 1 for 6 dB bandwidth measurement.
<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.2 Option 2 for 6 dB bandwidth measurement.
<input type="checkbox"/> Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.

### 3.2.4 Test Setup



### 3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

### 3.3 Maximum Conducted Output Power

#### 3.3.1 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.	

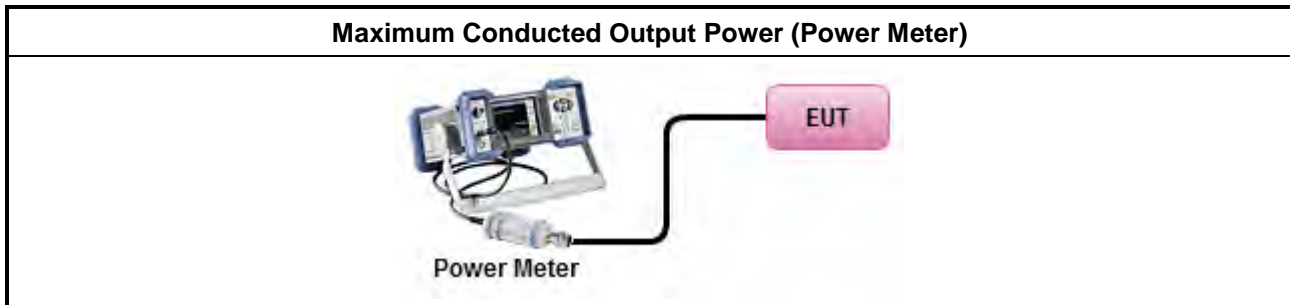
#### 3.3.2 Measuring Instruments

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

**3.3.3 Test Procedures**

Test Method	
▪ Maximum Peak Conducted Output Power	
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.1.1 & C63.10 clause 11.9.1.1 (RBW ≥ EBW method).
<input type="checkbox"/>	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]	
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.2 Method AVGSA-1.
<input type="checkbox"/>	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	
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.4 Method AVGSA-2.
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.5 Method AVGSA-2A (alternative)
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.6 Method AVGSA-3
<input type="checkbox"/>	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)	
<input type="checkbox"/>	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).
<input checked="" type="checkbox"/>	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]) $EIRP_{total} = P_{total} + DG$	

### 3.3.4 Test Setup



### 3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C



### 3.4 Power Spectral Density

#### 3.4.1 Power Spectral Density Limit

Power Spectral Density Limit
▪ Power Spectral Density (PSD) $\leq 8$ dBm/3kHz

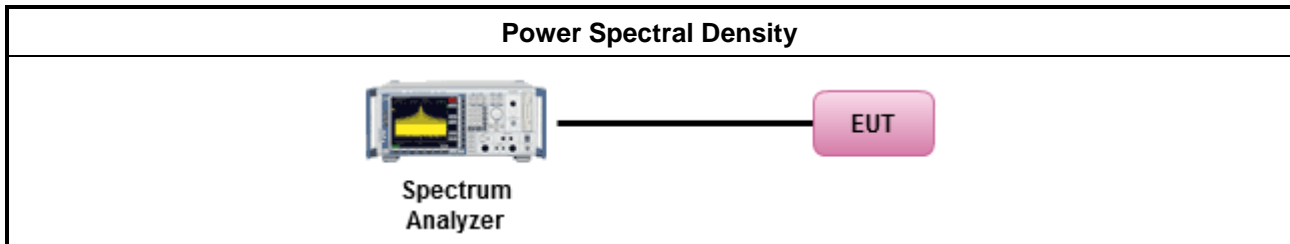
#### 3.4.2 Measuring Instruments

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

#### 3.4.3 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).	
<input checked="" type="checkbox"/>	Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10 Method Max. PSD. [duty cycle $\geq 98\%$ or external video / power trigger]
▪ For conducted measurement.	
▪ If The EUT supports multiple transmit chains using options given below:	
<input type="checkbox"/>	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.
<input type="checkbox"/>	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,
<input type="checkbox"/>	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.

### 3.4.4 Test Setup



### 3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

### 3.5 Emissions in Non-restricted Frequency Bands

#### 3.5.1 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
<p>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.</p> <p>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.</p>	

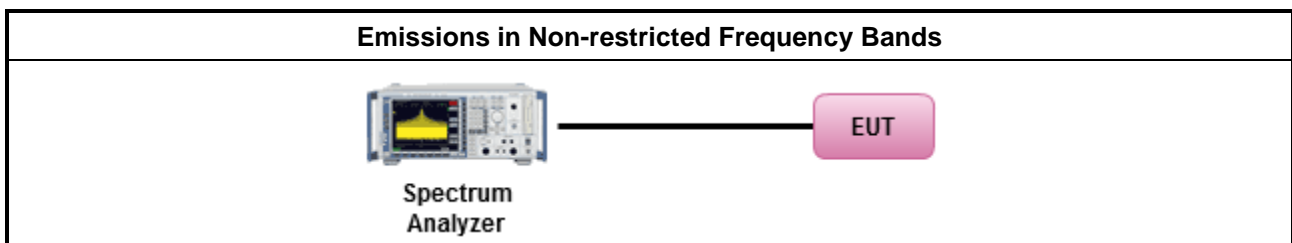
#### 3.5.2 Measuring Instruments

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

#### 3.5.3 Test Procedures

Test Method
<ul style="list-style-type: none"> <li>Refer as FCC KDB 558074, clause 8.5 for unwanted emissions into non-restricted bands.</li> </ul>

#### 3.5.4 Test Setup



#### 3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

### 3.6 Emissions in Restricted Frequency Bands

#### 3.6.1 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.

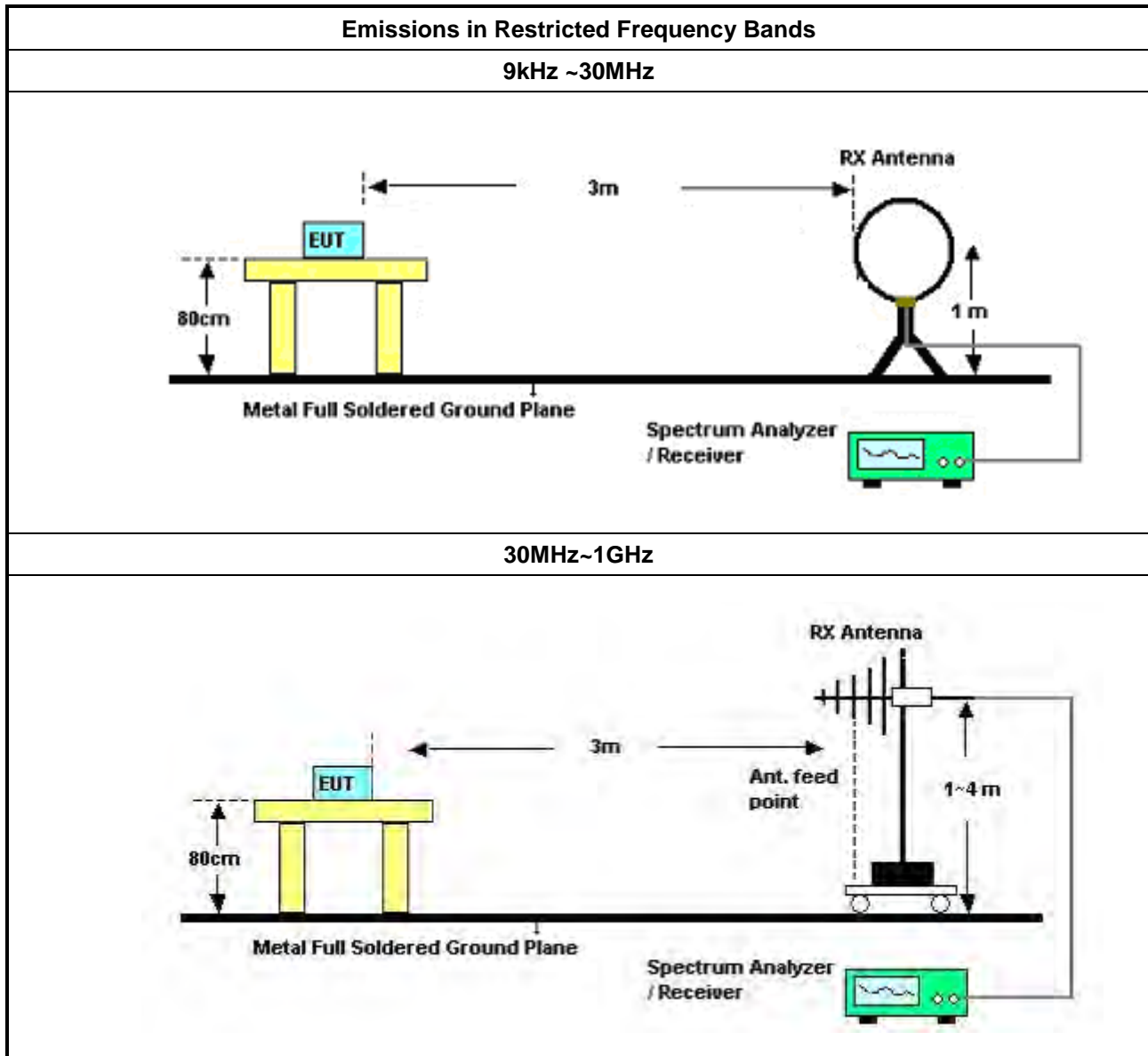
#### 3.6.2 Measuring Instruments

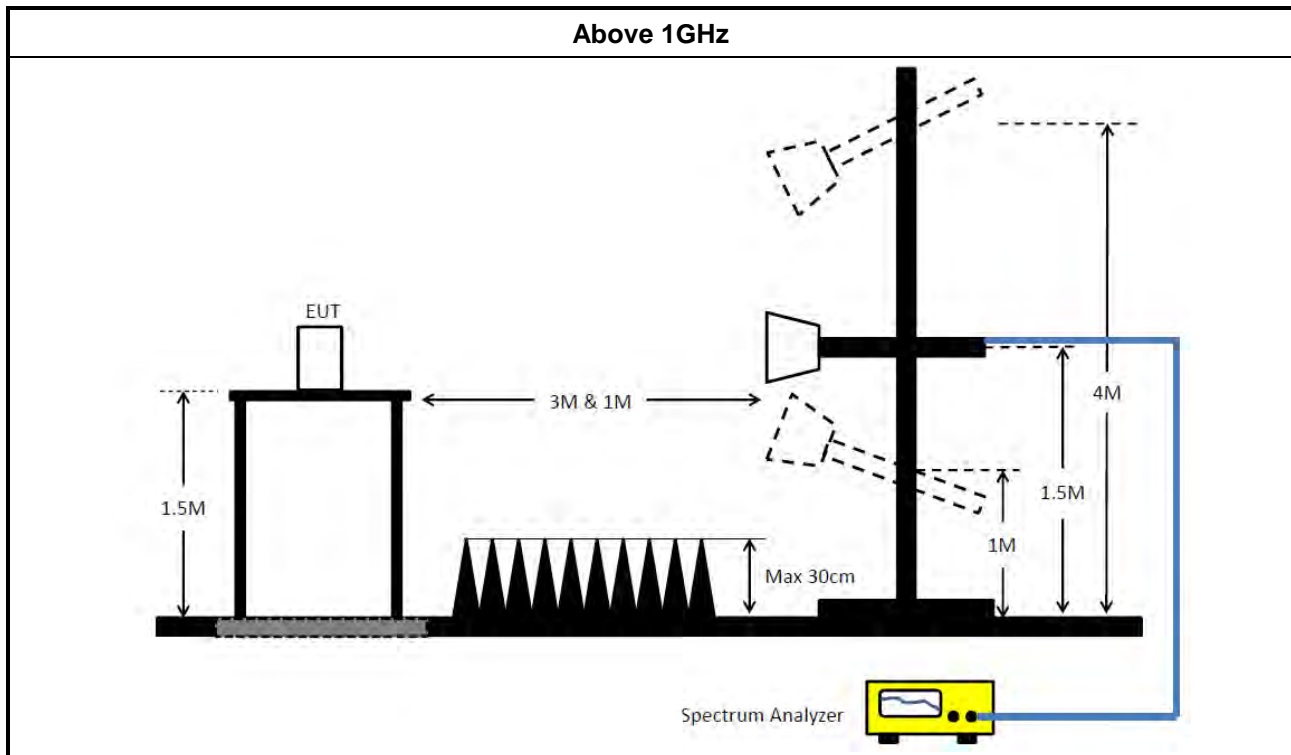
Refer a test equipment and calibration data table in this test report.

**3.6.3 Test Procedures**

Test Method	
▪ The average emission levels shall be measured in [duty cycle $\geq 98$ 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.
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.1(trace averaging for duty cycle $\geq 98\%$ ).
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.2(trace averaging + duty factor).
	<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.3(Reduced VBW $\geq 1/T$ ).
	<input type="checkbox"/> Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW $\geq 1/T$ , where T is pulse time.
	<input type="checkbox"/> Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
	<input checked="" type="checkbox"/> 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.

### 3.6.4 Test Setup





### 3.6.5 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.

### 3.6.6 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.

### 3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F



## 4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
LISN	Schwarzbeck	NSLK 8127	8127650	9kHz ~ 30MHz	Apr. 15, 2024	Apr. 14, 2025	Conduction (CO02-CB)
LISN	Schwarzbeck	NSLK 8127	8127478	9kHz ~ 30MHz	Dec. 29, 2023	Dec. 28, 2024	Conduction (CO02-CB)
EMI Receiver	Agilent	N9038A	MY52260140	9kHz ~ 8.4GHz	May 15, 2024	May 14, 2025	Conduction (CO02-CB)
COND Cable	Woken	Cable	2	0.15MHz ~ 30MHz	Oct. 17, 2023	Oct. 16, 2024	Conduction (CO02-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO02-CB)
Pulse Limiter	Schwarzbeck	VTSD 9561F-N	00378	9kHz ~ 30MHz	Oct. 17, 2023	Oct. 16, 2024	Conduction (CO02-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)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH02-CB)
Loop Antenna	Teseq	HLA 6121	65417	9kHz - 30 MHz	Oct. 13, 2023	Oct. 12, 2024	Radiation (03CH04-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH04-CB	30 MHz ~ 1 GHz	Aug. 01, 2023	Jul. 31, 2024	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)
Pre-Amplifier	EMCI	EMC330N	980391	20MHz ~ 3GHz	May 22, 2024	May 21, 2025	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	102171	9kHz ~ 7GHz	Jul. 26, 2023	Jul. 25, 2024	Radiation (03CH04-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-low	Woken	RG402	Low Cable-03+67	30MHz – 1GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH04-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH04-CB)
3m Semi Anechoic Chamber VSWR	RIKEN	SAC-3M	03CH02-CB	1GHz ~18GHz	Mar. 24, 2024	Mar. 23, 2025	Radiation (03CH02-CB)
Horn Antenna	EMCO	3115	9610-4976	1GHz ~ 18GHz	Apr. 12, 2024	Apr. 11, 2025	Radiation (03CH02-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 04, 2023	Sep. 03, 2024	Radiation (03CH02-CB)
Pre-Amplifier	Agilent	83017A	MY39501305	1GHz ~ 26.5GHz	Jun. 30, 2023	Jun. 29, 2024	Radiation (03CH02-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 24, 2023	Nov. 23, 2024	Radiation (03CH02-CB)
Signal Analyzer	R&S	FSV3044	101536	10kHz ~ 44GHz	Jul. 24, 2023	Jul. 23, 2024	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18	1GHz ~ 18GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18+19	1GHz ~ 18GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH02-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH02-CB)

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

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



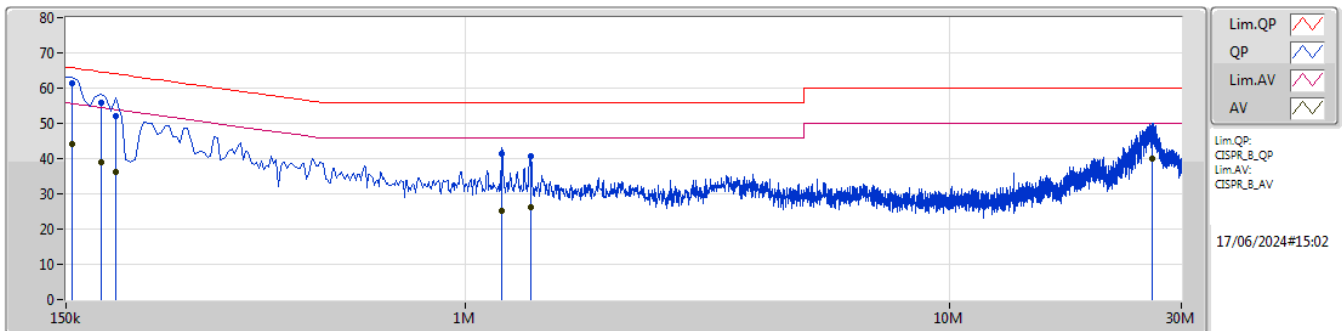
## Conducted Emissions at Powerline

## Appendix A

### Summary

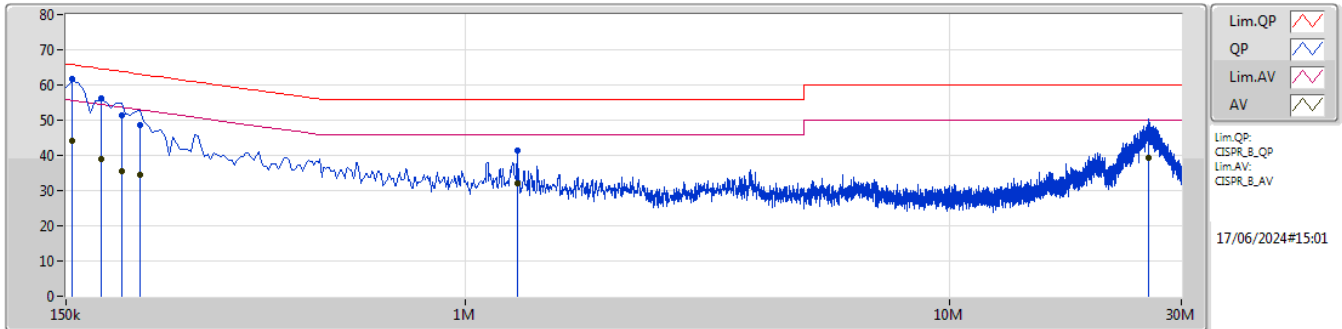
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 9	Pass	QP	154.5k	61.62	65.75	-4.13	Neutral

## Mode 9



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	154.5k	61.43	65.75	-4.32	10.09	Line	"Worst"	51.34	0.05	0.03	10.01						
AV	154.5k	44.15	55.75	-11.60	10.09	Line	-	34.06	0.05	0.03	10.01						
QP	177k	56.02	64.62	-8.60	10.08	Line	-	45.94	0.05	0.03	10.00						
AV	177k	38.85	54.62	-15.77	10.08	Line	-	28.77	0.05	0.03	10.00						
QP	190.5k	52.03	64.01	-11.98	10.07	Line	-	41.96	0.05	0.03	9.99						
AV	190.5k	36.20	54.01	-17.81	10.07	Line	-	26.13	0.05	0.03	9.99						
QP	1.19M	41.46	56.00	-14.54	10.12	Line	-	31.34	0.08	0.04	10.00						
AV	1.19M	25.29	46.00	-20.71	10.12	Line	-	15.17	0.08	0.04	10.00						
QP	1.361M	40.81	56.00	-15.19	10.11	Line	-	30.70	0.08	0.05	9.98						
AV	1.361M	26.26	46.00	-19.74	10.11	Line	-	16.15	0.08	0.05	9.98						
QP	26.156M	47.10	60.00	-12.90	10.63	Line	-	36.47	0.53	0.24	9.86						
AV	26.156M	39.99	50.00	-10.01	10.63	Line	-	29.36	0.53	0.24	9.86						

## Mode 9



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	154.5k	61.62	65.75	-4.13	10.09	Neutral	"Worst"	51.53	0.05	0.03	10.01						
AV	154.5k	44.15	55.75	-11.60	10.09	Neutral	-	34.06	0.05	0.03	10.01						
QP	177k	56.28	64.62	-8.34	10.08	Neutral	-	46.20	0.05	0.03	10.00						
AV	177k	39.09	54.62	-15.53	10.08	Neutral	-	29.01	0.05	0.03	10.00						
QP	195k	51.52	63.82	-12.30	10.07	Neutral	-	41.45	0.05	0.03	9.99						
AV	195k	35.65	53.82	-18.17	10.07	Neutral	-	25.58	0.05	0.03	9.99						
QP	213k	48.54	63.09	-14.55	10.07	Neutral	-	38.47	0.05	0.03	9.99						
AV	213k	34.44	53.09	-18.65	10.07	Neutral	-	24.37	0.05	0.03	9.99						
QP	1.28M	41.22	56.00	-14.78	10.10	Neutral	-	31.12	0.07	0.04	9.99						
AV	1.28M	32.11	46.00	-13.89	10.10	Neutral	-	22.01	0.07	0.04	9.99						
QP	25.652M	45.58	60.00	-14.42	10.39	Neutral	-	35.19	0.30	0.23	9.86						
AV	25.652M	39.24	50.00	-10.76	10.39	Neutral	-	28.85	0.30	0.23	9.86						

**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
BT-LE(1Mbps)	681.25k	1.036M	1M04F1D	650k	1.022M
BT-LE(2Mbps)	595k	2.079M	2M08F1D	572.5k	2.07M

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

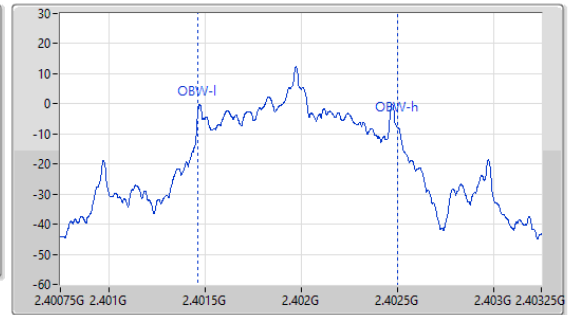
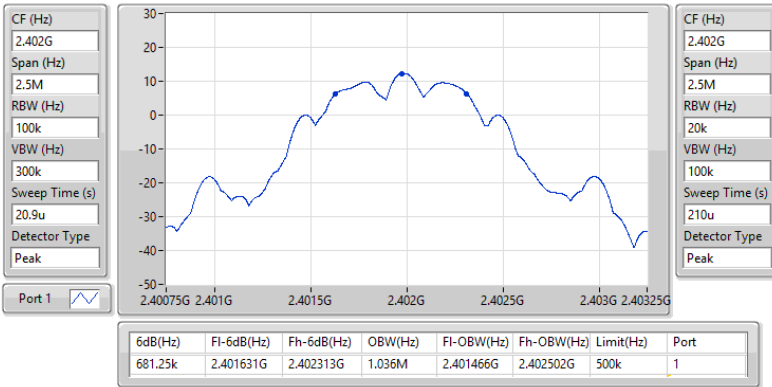
**Result**

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	500k	681.25k	1.036M
2440MHz	Pass	500k	650k	1.03M
2478MHz	Pass	500k	681.25k	1.034M
2480MHz	Pass	500k	655k	1.022M
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	500k	582.5k	2.07M
2440MHz	Pass	500k	572.5k	2.07M
2478MHz	Pass	500k	577.5k	2.073M
2480MHz	Pass	500k	595k	2.079M

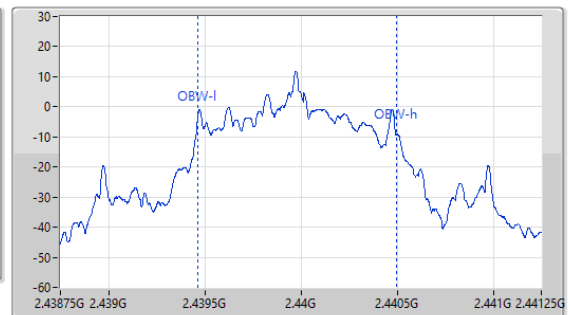
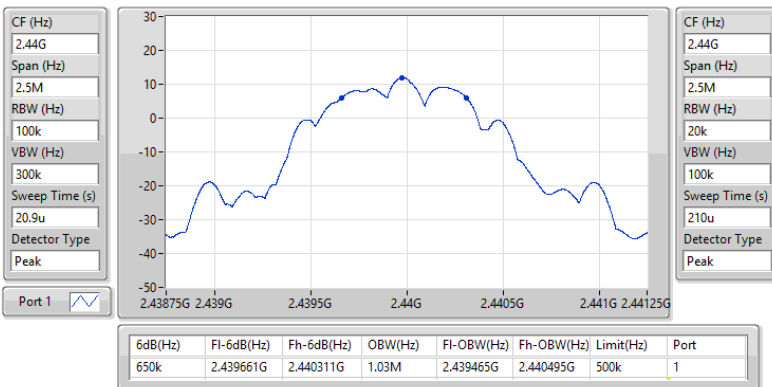
Port X-N dB = Port X 6dB down bandwidth;  
Port X-OBW = Port X 99% occupied bandwidth

**2.4-2.4835GHz\_BT-LE(1Mbps)**
**EBW-DTS**
**2402MHz**

30/04/2024


**2.4-2.4835GHz\_BT-LE(1Mbps)**
**EBW-DTS**
**2440MHz**

30/04/2024

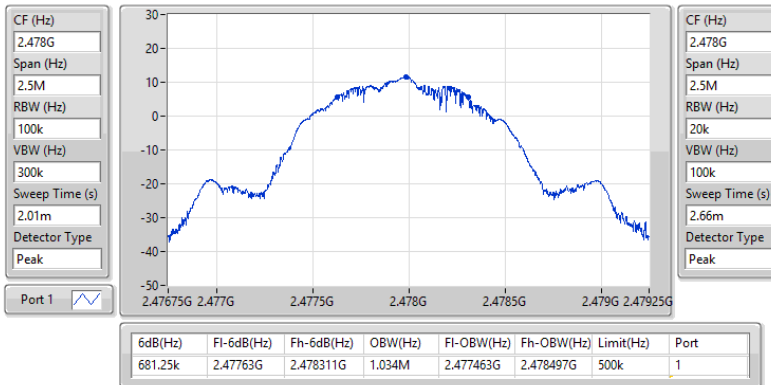


## 2.4-2.4835GHz\_BT-LE(1Mbps)

EBW-DTS

2478MHz

30/04/2024

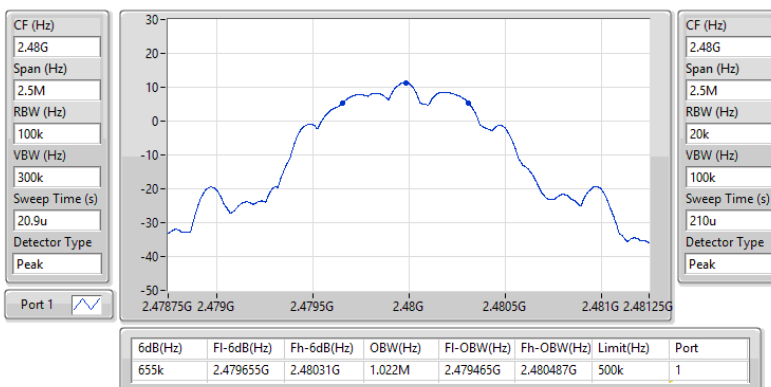


## 2.4-2.4835GHz\_BT-LE(1Mbps)

EBW-DTS

2480MHz

30/04/2024

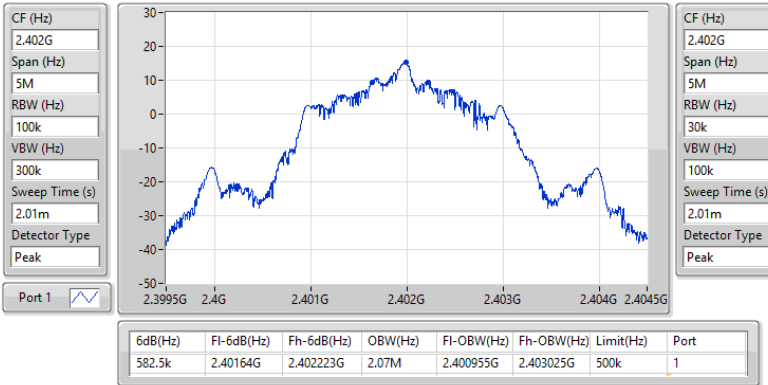


2.4-2.4835GHz\_BT-LE(2Mbps)

EBW-DTS

2402MHz

30/04/2024

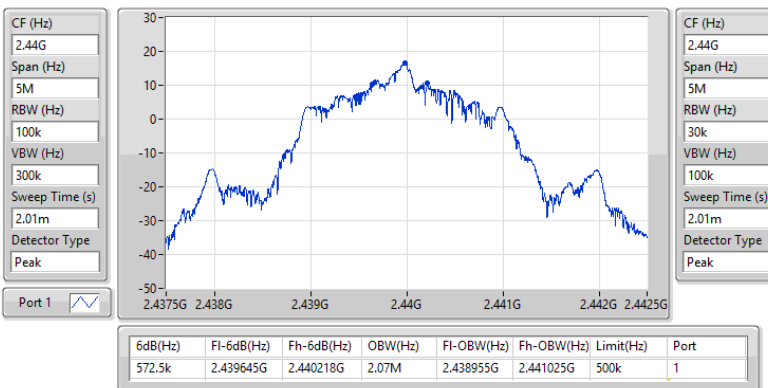


2.4-2.4835GHz\_BT-LE(2Mbps)

EBW-DTS

2440MHz

30/04/2024

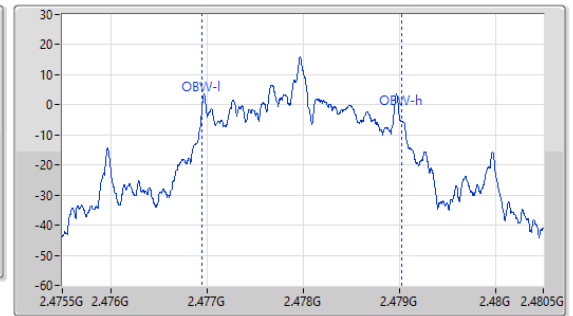
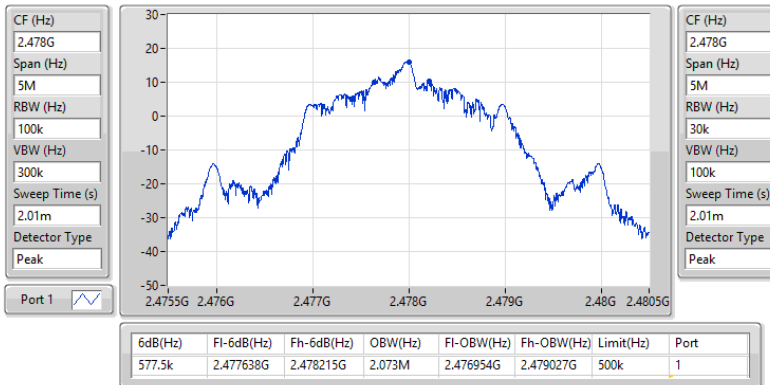


2.4-2.4835GHz\_BT-LE(2Mbps)

EBW-DTS

2478MHz

30/04/2024

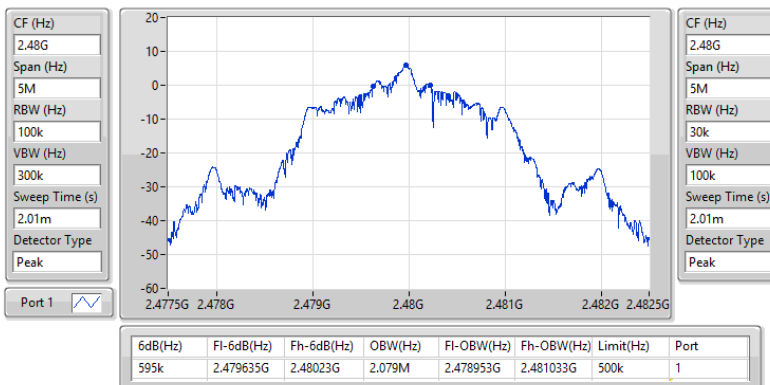


2.4-2.4835GHz\_BT-LE(2Mbps)

EBW-DTS

2480MHz

30/04/2024





## Average Power-DTS

## Appendix C

### Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	12.94	0.01968
BT-LE(2Mbps)	16.62	0.04592



**Result**

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	6.92	12.94	29.08
2440MHz	Pass	6.92	12.51	29.08
2478MHz	Pass	6.92	11.89	29.08
2480MHz	Pass	6.92	11.95	29.08
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	6.92	15.55	29.08
2440MHz	Pass	6.92	16.62	29.08
2478MHz	Pass	6.92	16.29	29.08
2480MHz	Pass	6.92	6.39	29.08

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



**Summary**

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
BT-LE(1Mbps)	7.05
BT-LE(2Mbps)	6.94

RBW = 3kHz;

**Result**

Mode	Result	DG (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	6.92	6.23	7.08
2440MHz	Pass	6.92	7.05	7.08
2478MHz	Pass	6.92	6.93	7.08
2480MHz	Pass	6.92	6.61	7.08
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	6.92	6.94	7.08
2440MHz	Pass	6.92	6.63	7.08
2478MHz	Pass	6.92	6.92	7.08
2480MHz	Pass	6.92	0.52	7.08

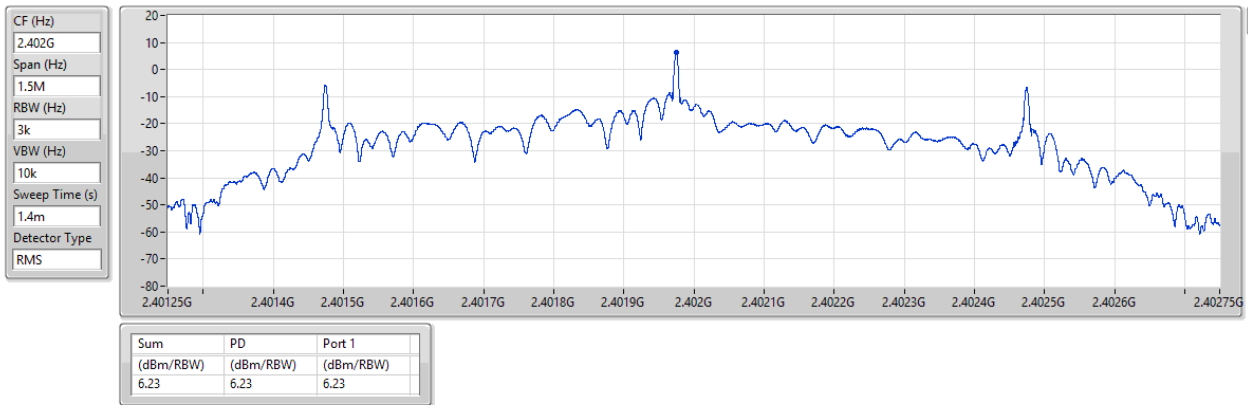
DG = Directional Gain; RBW = 3kHz;  
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

2.4-2.4835GHz\_BT-LE(1Mbps)

PSD

2402MHz

30/04/2024

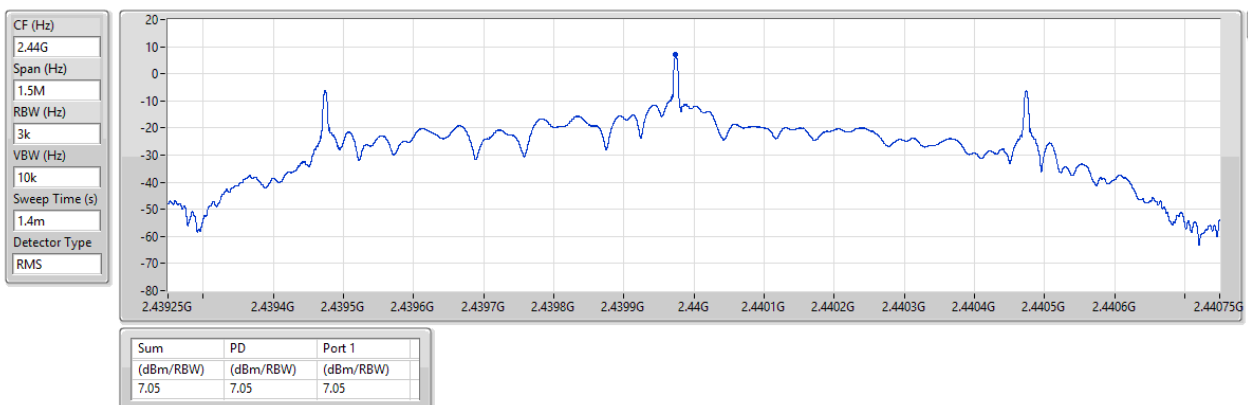


2.4-2.4835GHz\_BT-LE(1Mbps)

PSD

2440MHz

30/04/2024

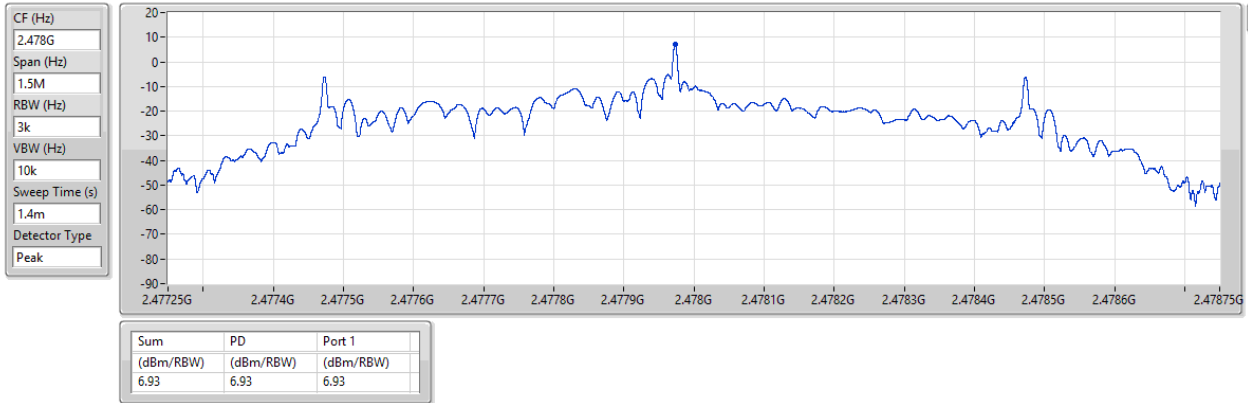


2.4-2.4835GHz\_BT-LE(1Mbps)

PSD

2478MHz

30/04/2024

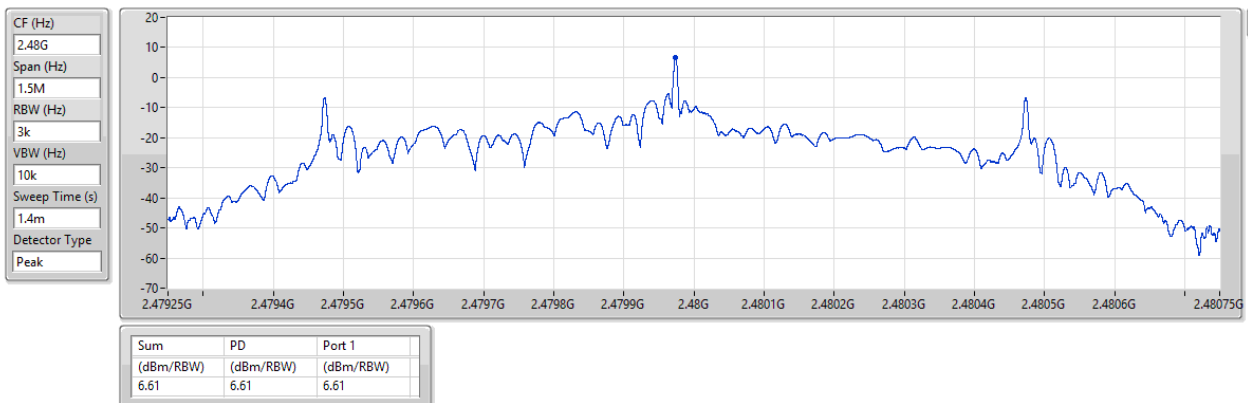


2.4-2.4835GHz\_BT-LE(1Mbps)

PSD

2480MHz

30/04/2024

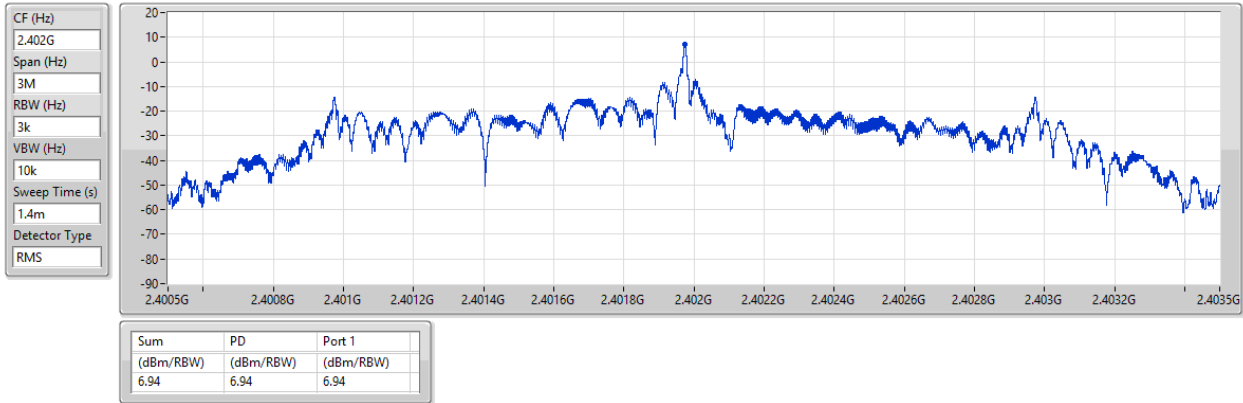


2.4-2.4835GHz\_BT-LE(2Mbps)

PSD

2402MHz

30/04/2024

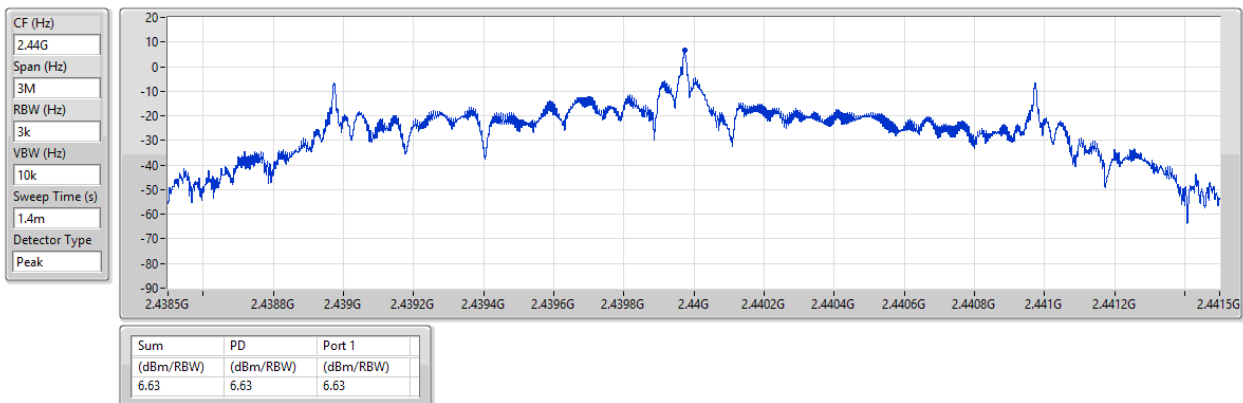


2.4-2.4835GHz\_BT-LE(2Mbps)

PSD

2440MHz

30/04/2024

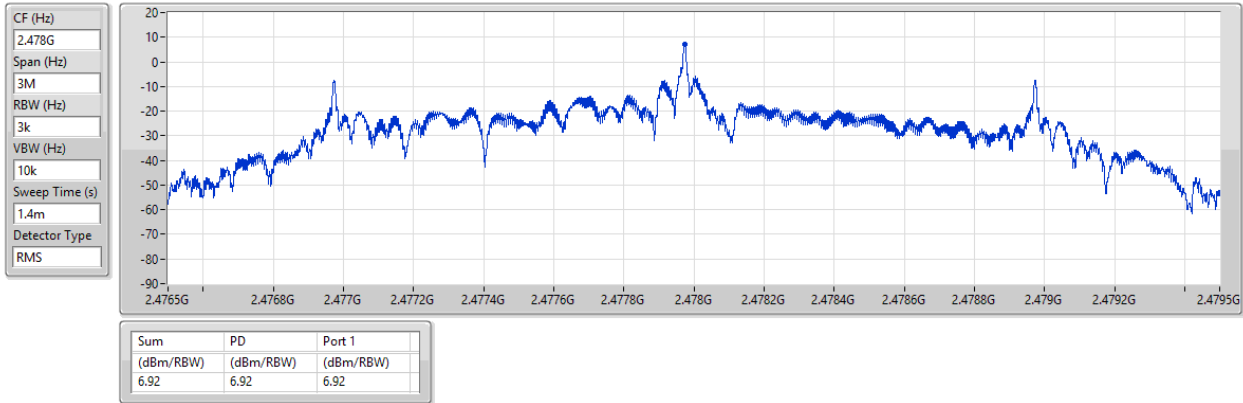


2.4-2.4835GHz\_BT-LE(2Mbps)

PSD

2478MHz

30/04/2024

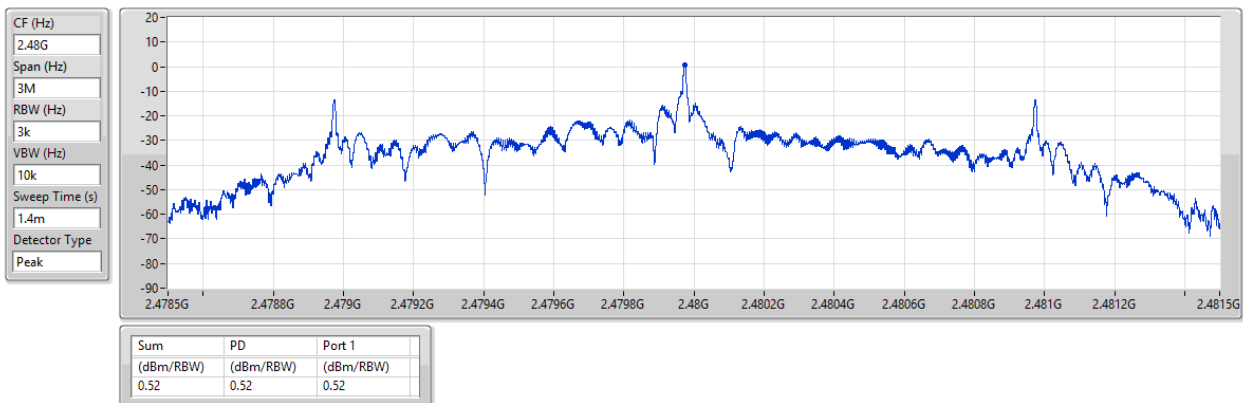


2.4-2.4835GHz\_BT-LE(2Mbps)

PSD

2480MHz

30/04/2024



**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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	2.40184G	12.32	-17.68	2.00518G	-53.93	2.4G	-40.14	2.4G	-38.60	2.50218G	-51.09	21.59459G	-47.73	1
BT-LE(2Mbps)	Pass	2.43991G	16.42	-13.58	2.13795G	-54.61	2.4G	-15.34	2.4G	-17.45	2.5011G	-52.21	21.89548G	-47.12	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
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40184G	12.32	-17.68	2.00518G	-53.93	2.4G	-40.14	2.4G	-38.60	2.50218G	-51.09	21.59459G	-47.73	1
2440MHz	Pass	2.40184G	12.32	-17.68	2.1732G	-54.60	2.3954G	-51.57	2.4G	-56.67	2.50138G	-51.83	21.91517G	-47.66	1
2480MHz	Pass	2.40184G	12.32	-17.68	2.16028G	-54.68	2.3964G	-51.39	2.4G	-56.63	2.5023G	-51.86	21.83643G	-47.32	1
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.43991G	16.42	-13.58	2.13795G	-54.61	2.4G	-15.34	2.4G	-17.45	2.5011G	-52.21	21.89548G	-47.12	1
2440MHz	Pass	2.43991G	16.42	-13.58	1.63035G	-55.03	2.4G	-50.12	2.4G	-53.98	2.50118G	-52.01	21.74363G	-48.15	1
2480MHz	Pass	2.43991G	16.42	-13.58	1.81483G	-54.08	2.39684G	-51.93	2.4G	-56.36	2.50202G	-52.47	21.72114G	-46.83	1

2.4-2.4835GHz\_BT-LE(1Mbps)

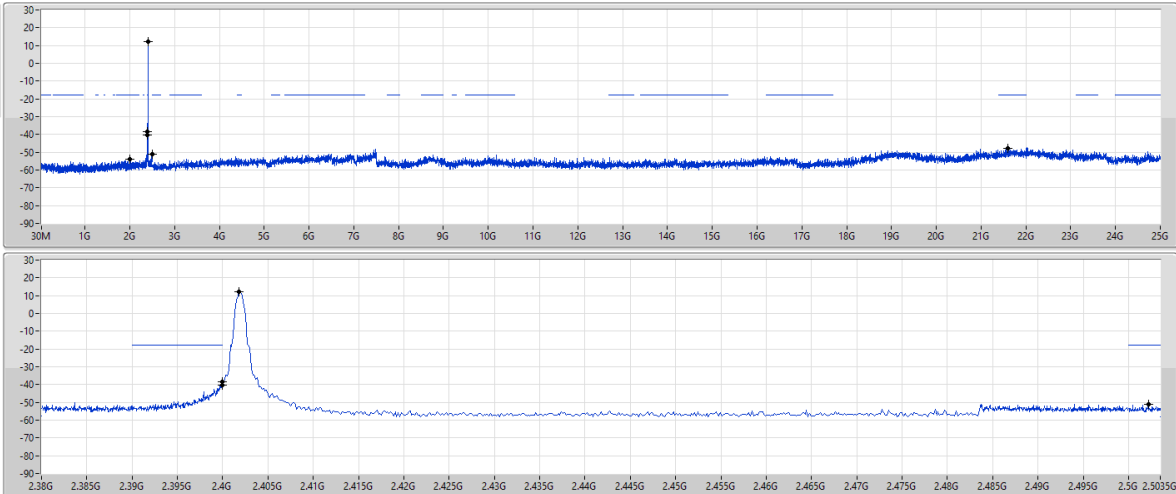
CSEndB-DTS

2402MHz

30/04/2024

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
2.40184G	12.32	-17.68	2.00518G	-53.93	2.4G	-40.14	2.4G	-38.60	2.50218G	-51.09	21.59459G	-47.73	1

2.4-2.4835GHz\_BT-LE(1Mbps)

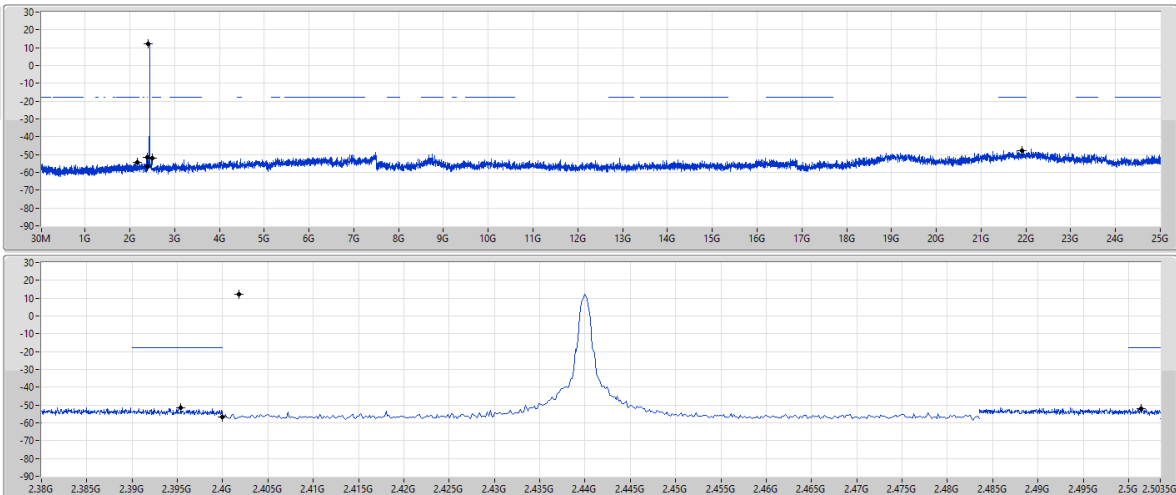
CSEndB-DTS

2440MHz

30/04/2024

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

Port 1



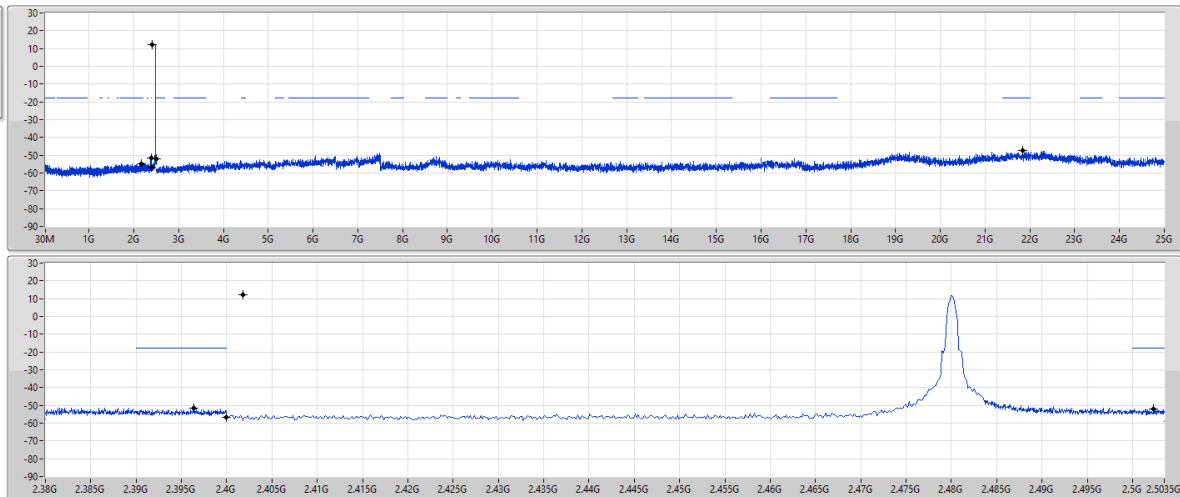
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.40184G	12.32	-17.68	2.1732G	-54.60	2.3954G	-51.57	2.4G	-56.67	2.50138G	-51.83	21.91517G	-47.66	1

2.4-2.4835GHz\_BT-LE(1Mbps)

CSEndB-DTS

2480MHz

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



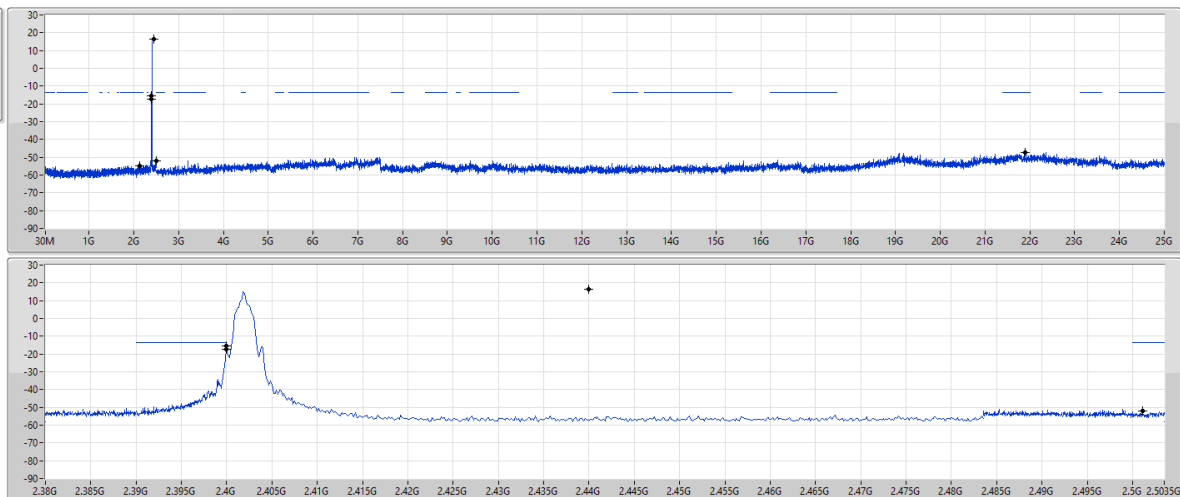
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2.40184G	12.32	-17.68	2.16028G	-54.68	2.3964G	-51.39	2.4G	-56.63	2.5023G	-51.86	21.83643G	-47.32	1

2.4-2.4835GHz\_BT-LE(2Mbps)

CSEndB-DTS

2402MHz

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

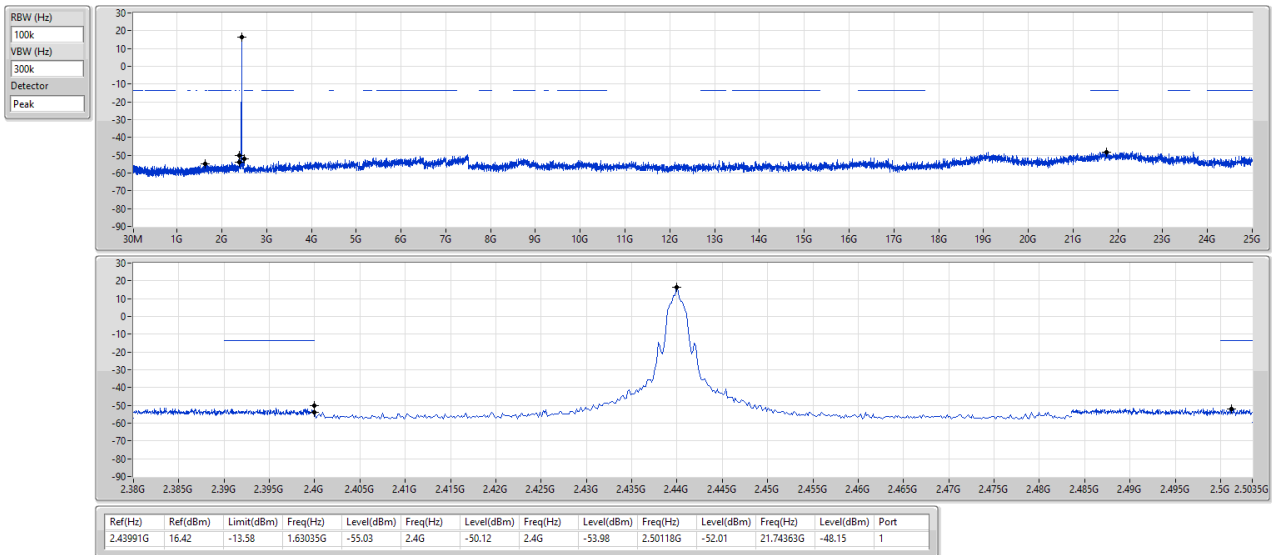


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43991G	16.42	-13.58	2.13795G	-54.61	2.4G	-15.34	2.4G	-17.45	2.5011G	-52.21	21.89548G	-47.12	1

2.4-2.4835GHz\_BT-LE(2Mbps)

CSEndB-DTS

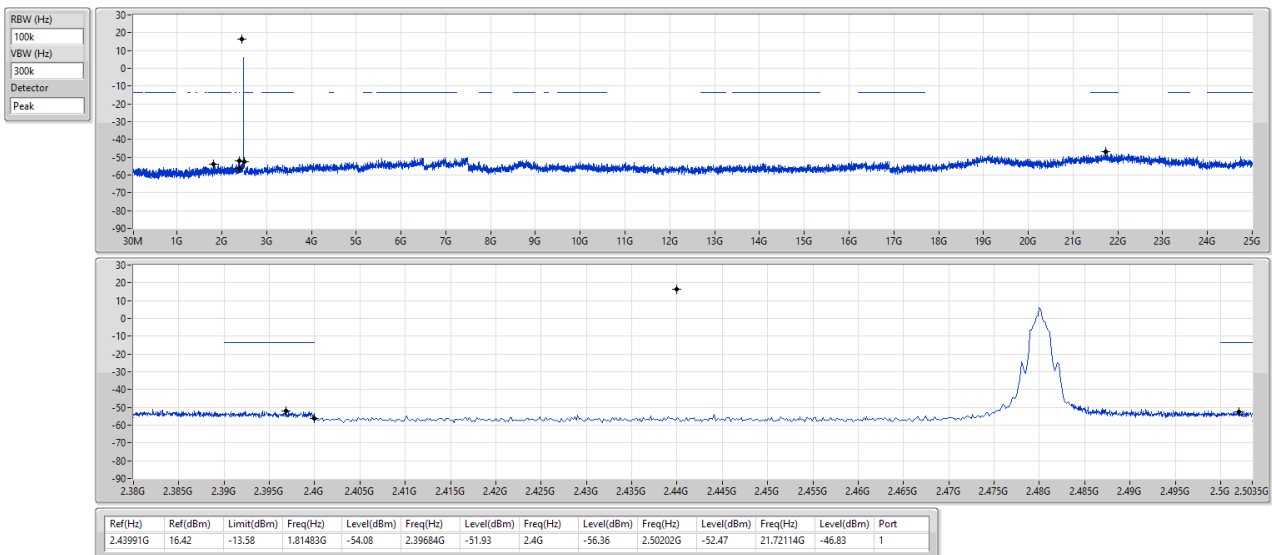
2440MHz



2.4-2.4835GHz\_BT-LE(2Mbps)

CSEndB-DTS

2480MHz





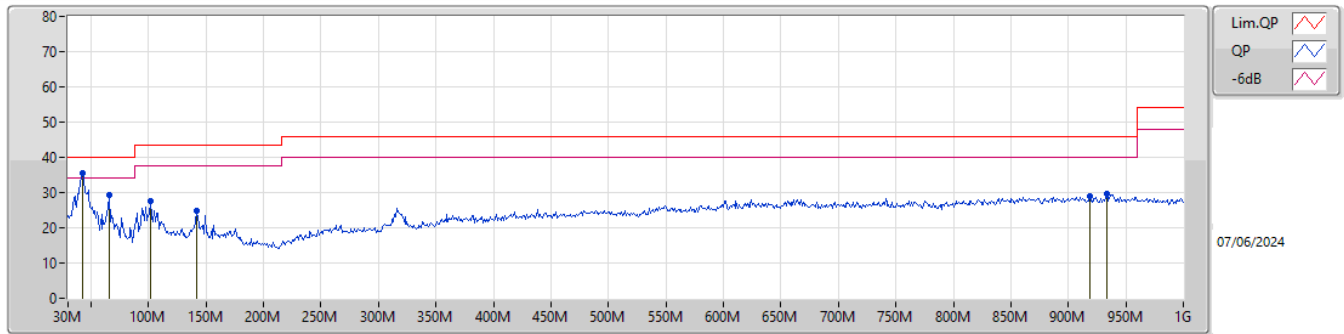
## ***Radiated Emissions below 1GHz***

## ***Appendix F.1***

### **Summary**

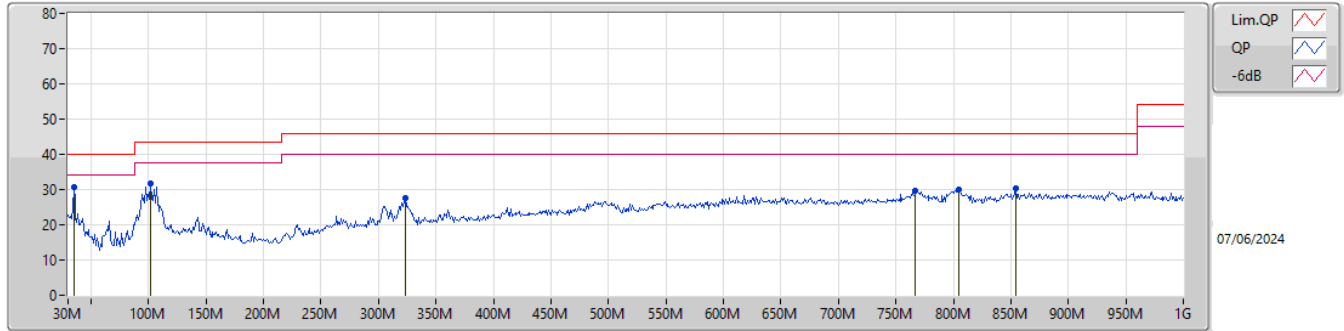
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 10	Pass	PK	42.61M	35.38	40.00	-4.62	Vertical

### Mode 10



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	42.61M	35.38	40.00	-4.62	-13.05	3	Vertical	360	1.00	"Worst"	48.43	17.18	0.43	30.66		
PK	65.89M	29.30	40.00	-10.70	-17.97	3	Vertical	130	1.00	-	47.27	12.34	0.63	30.94		
PK	101.78M	27.59	43.50	-15.91	-12.49	3	Vertical	358	1.50	-	40.08	17.39	0.83	30.71		
PK	141.55M	24.77	43.50	-18.73	-12.86	3	Vertical	21	1.25	-	37.63	17.41	1.09	31.36		
PK	918.52M	29.05	46.00	-16.95	-2.15	3	Vertical	351	2.00	-	31.20	26.77	3.12	32.04		
PK	933.07M	29.60	46.00	-16.40	-2.35	3	Vertical	315	1.00	-	31.95	26.66	3.16	32.17		

### Mode 10



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	34.85M	30.62	40.00	-9.38	-9.00	3	Horizontal	124	1.00	"Worst"	39.62	21.32	0.37	30.69		
PK	101.78M	31.79	43.50	-11.71	-12.49	3	Horizontal	296	2.00	-	44.28	17.39	0.83	30.71		
PK	323.91M	27.63	46.00	-18.37	-10.16	3	Horizontal	76	1.00	-	37.79	19.43	1.73	31.32		
PK	767.2M	29.71	46.00	-16.29	-3.68	3	Horizontal	325	1.25	-	33.39	25.60	2.78	32.06		
PK	805.03M	30.14	46.00	-15.86	-3.09	3	Horizontal	307	1.00	-	33.23	25.95	2.92	31.96		
PK	854.5M	30.24	46.00	-15.76	-2.67	3	Horizontal	333	1.50	-	32.91	26.28	2.94	31.89		

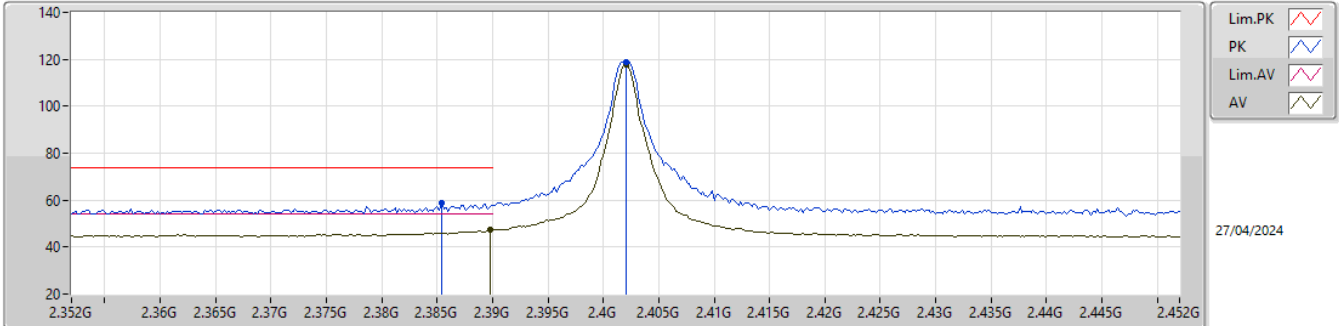


**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
BT-LE(2Mbps)	Pass	AV	2.4835G	53.74	54.00	-0.26	3	Horizontal	338	1.11	-

## 2.4-2.4835GHz\_BT-LE(1Mbps)

### 2402MHz\_TX

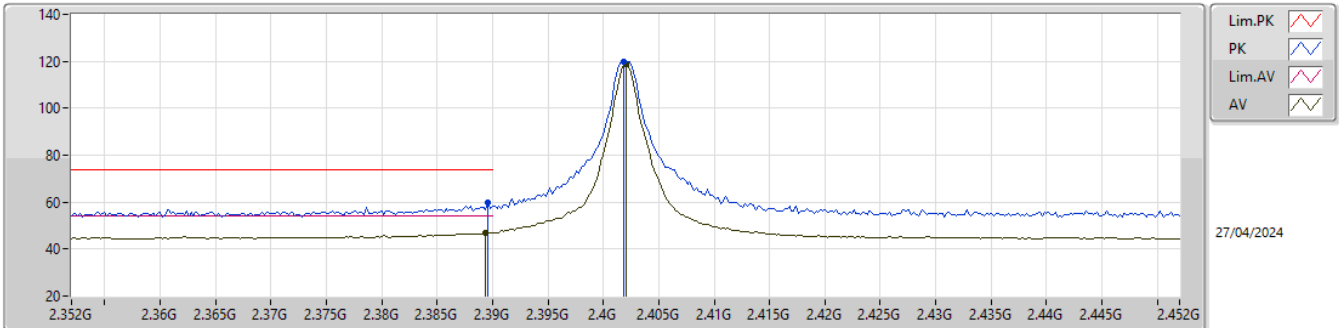


EUT\_X\_1TX  
Setting 20  
02-C-V-1

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	2.3854G	58.77	74.00	-15.23	27.27	3	Vertical	9	1.00	-	28.45	3.05	-			
AV	2.3898G	47.16	54.00	-6.84	15.61	3	Vertical	9	1.00	-	28.50	3.05	-			
PK	2.402G	118.83	Inf	-Inf	87.29	3	Vertical	9	1.00	-	28.48	3.06	-			
AV	2.402G	117.96	Inf	-Inf	86.42	3	Vertical	9	1.00	-	28.48	3.06	-			

## 2.4-2.4835GHz\_BT-LE(1Mbps)

## 2402MHz\_TX

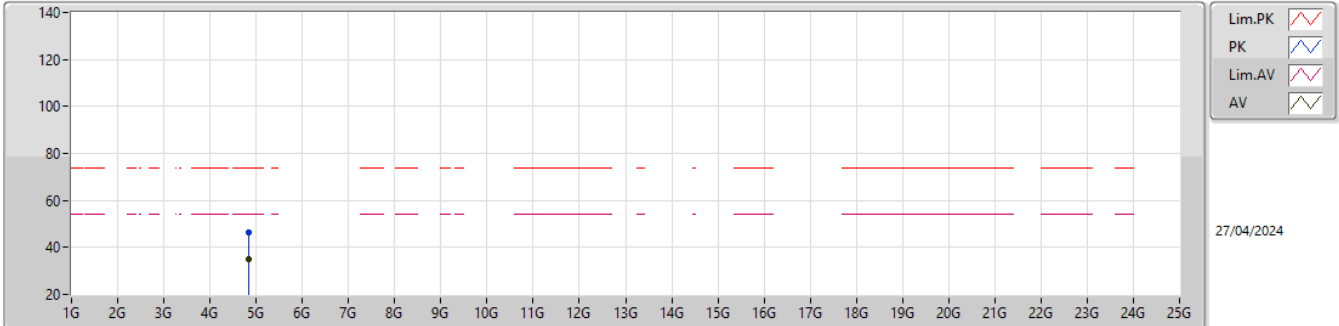


EUT\_X\_1TX  
Setting 20  
02-C-V-1

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	59.59	74.00	-14.41	28.04	3	Horizontal	340	1.01	-	28.50	3.05	-			
AV	2.3894G	46.96	54.00	-7.04	15.42	3	Horizontal	340	1.01	-	28.49	3.05	-			
PK	2.4018G	119.90	Inf	-Inf	88.36	3	Horizontal	340	1.01	-	28.48	3.06	-			
AV	2.402G	118.99	Inf	-Inf	87.45	3	Horizontal	340	1.01	-	28.48	3.06	-			

2.4-2.4835GHz\_BT-LE(1Mbps)

2402MHz\_TX

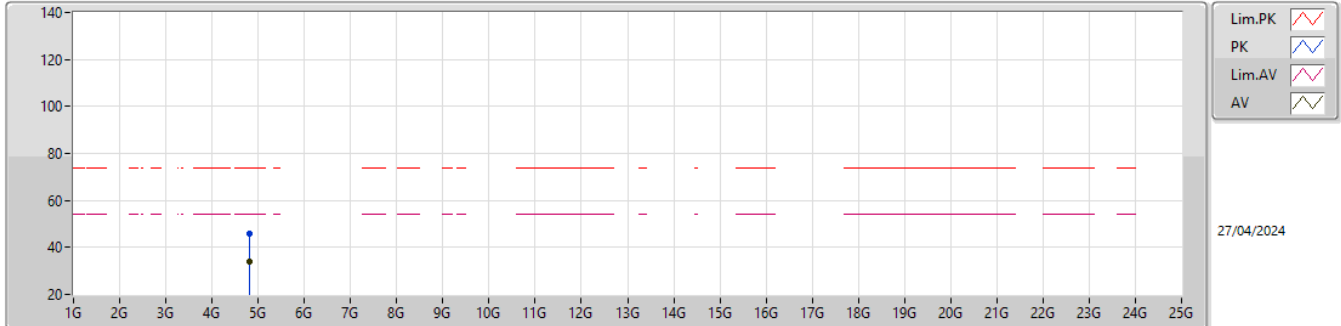


EUT\_Z\_1TX  
Setting 20  
02-C-V-1

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	4.8424G	46.16	74.00	-27.84	38.54	3	Vertical	-0	1.80	-	33.18	5.10	30.66			
AV	4.835G	34.80	54.00	-19.20	27.20	3	Vertical	-0	1.80	-	33.17	5.10	30.67			

2.4-2.4835GHz\_BT-LE(1Mbps)

2402MHz\_TX

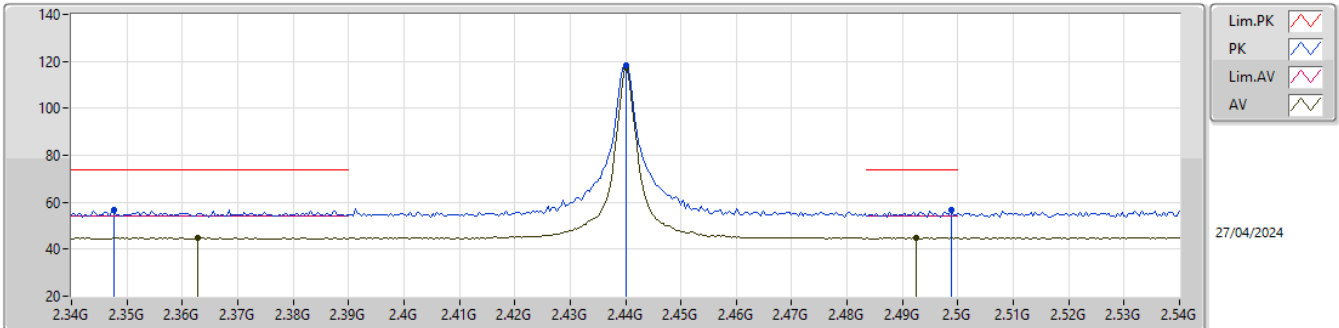


EUT\_Z\_1TX  
Setting 20  
02-C-V-1

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	4.8168G	46.11	74.00	-27.89	38.56	3	Horizontal	27	2.64	-	33.13	5.10	30.68			
AV	4.813G	33.97	54.00	-20.03	26.43	3	Horizontal	27	2.64	-	33.13	5.09	30.68			

## 2.4-2.4835GHz\_BT-LE(1Mbps)

## 2440MHz\_TX

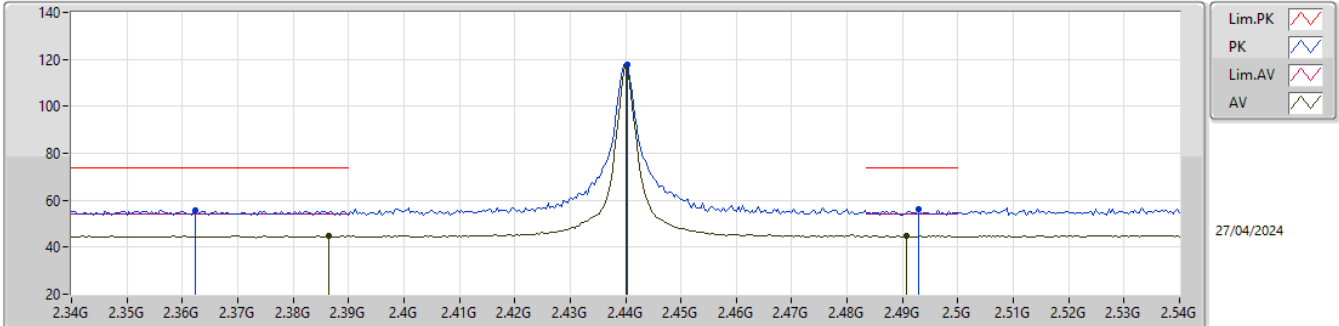


EUT\_X\_1TX  
Setting 20  
02-C-V-1

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	2.3476G	56.63	74.00	-17.37	25.30	3	Vertical	2	1.10	-	28.30	3.03	-			
AV	2.3628G	44.98	54.00	-9.02	13.54	3	Vertical	2	1.10	-	28.40	3.04	-			
PK	2.44G	118.13	Inf	-Inf	86.55	3	Vertical	2	1.10	-	28.50	3.08	-			
AV	2.44G	117.30	Inf	-Inf	85.72	3	Vertical	2	1.10	-	28.50	3.08	-			
PK	2.4988G	56.48	74.00	-17.52	24.78	3	Vertical	2	1.10	-	28.60	3.10	-			
AV	2.4924G	44.82	54.00	-9.18	13.12	3	Vertical	2	1.10	-	28.60	3.10	-			

## 2.4-2.4835GHz\_BT-LE(1Mbps)

### 2440MHz\_TX

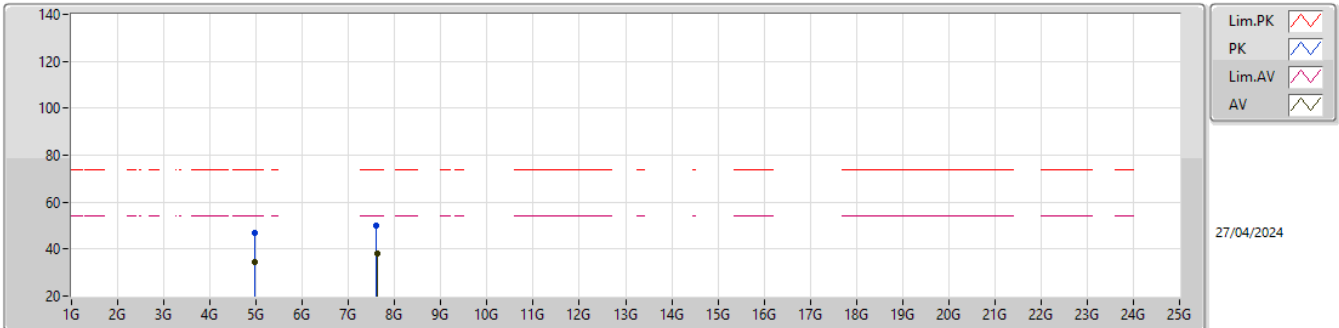


EUT\_X\_1TX  
Setting 20  
02-C-V-1

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	2.3624G	55.81	74.00	-18.19	24.37	3	Horizontal	337	1.34	-	28.40	3.04	-			
AV	2.3864G	44.69	54.00	-9.31	13.18	3	Horizontal	337	1.34	-	28.46	3.05	-			
PK	2.4404G	117.96	Inf	-Inf	86.38	3	Horizontal	337	1.34	-	28.50	3.08	-			
AV	2.44G	117.04	Inf	-Inf	85.46	3	Horizontal	337	1.34	-	28.50	3.08	-			
PK	2.4928G	55.97	74.00	-18.03	24.27	3	Horizontal	337	1.34	-	28.60	3.10	-			
AV	2.4908G	44.84	54.00	-9.16	13.14	3	Horizontal	337	1.34	-	28.60	3.10	-			

## 2.4-2.4835GHz\_BT-LE(1Mbps)

### 2440MHz\_TX

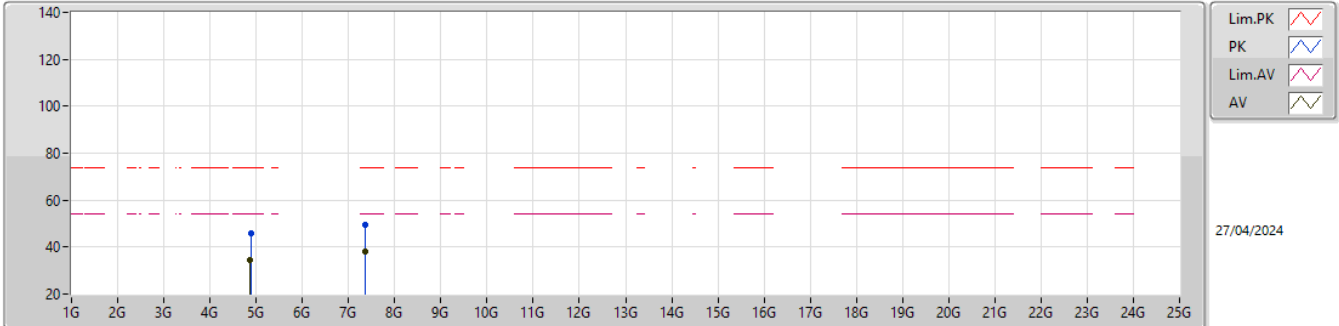


EUT\_Z\_1TX  
Setting 20  
02-C-V-1

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	4.9604G	46.69	74.00	-27.31	38.74	3	Vertical	177	2.15	-	33.40	5.14	30.59			
AV	4.9644G	34.24	54.00	-19.76	26.28	3	Vertical	177	2.15	-	33.40	5.14	30.58			
PK	7.5974G	49.92	74.00	-24.08	39.11	3	Vertical	135	2.63	-	36.40	6.66	32.25			
AV	7.6146G	38.25	54.00	-15.75	27.43	3	Vertical	135	2.63	-	36.40	6.67	32.25			

## 2.4-2.4835GHz\_BT-LE(1Mbps)

### 2440MHz\_TX

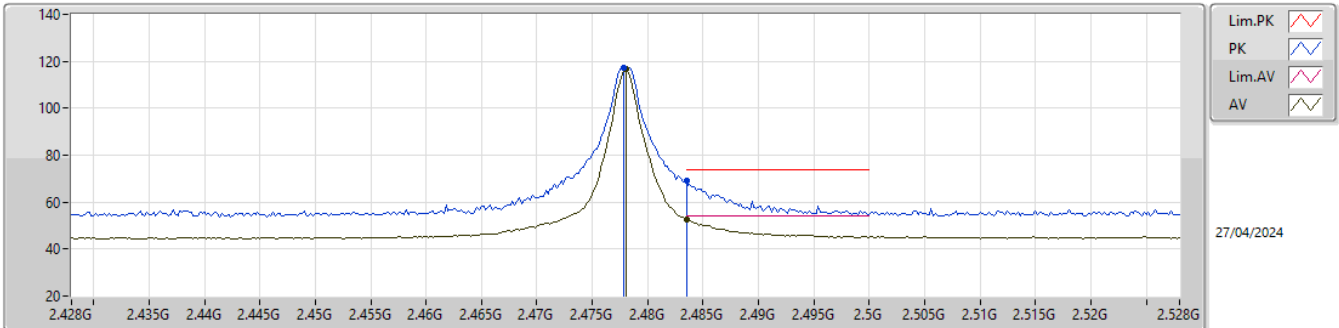


EUT\_Z\_1TX  
Setting 20  
02-C-V-1

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	4.8898G	45.84	74.00	-28.16	38.07	3	Horizontal	305	1.51	-	33.28	5.12	30.63			
AV	4.8624G	34.34	54.00	-19.66	26.66	3	Horizontal	305	1.51	-	33.22	5.11	30.65			
PK	7.3598G	49.73	74.00	-24.27	38.73	3	Horizontal	94	2.92	-	36.60	6.54	32.14			
AV	7.37G	37.94	54.00	-16.06	26.95	3	Horizontal	94	2.92	-	36.60	6.54	32.15			

## 2.4-2.4835GHz\_BT-LE(1Mbps)

## 2478MHz\_TX

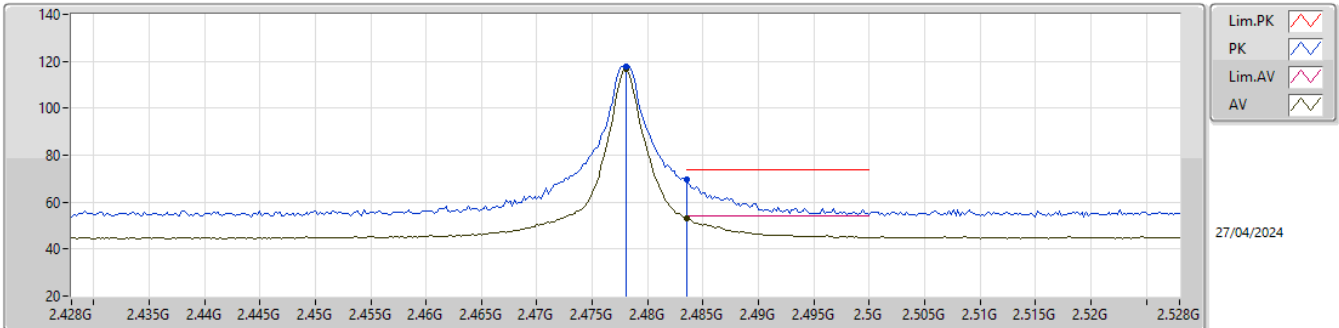


EUT\_X\_1TX  
Setting 19  
02-C-V-1

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	2.4778G	117.48	Inf	-Inf	85.81	3	Vertical	0	1.10	-	28.58	3.09	-				
AV	2.478G	116.61	Inf	-Inf	84.94	3	Vertical	0	1.10	-	28.58	3.09	-				
PK	2.4835G	68.99	74.00	-5.01	37.30	3	Vertical	0	1.10	-	28.60	3.09	-				
AV	2.4835G	52.72	54.00	-1.28	21.03	3	Vertical	0	1.10	-	28.60	3.09	-				

## 2.4-2.4835GHz\_BT-LE(1Mbps)

### 2478MHz\_TX

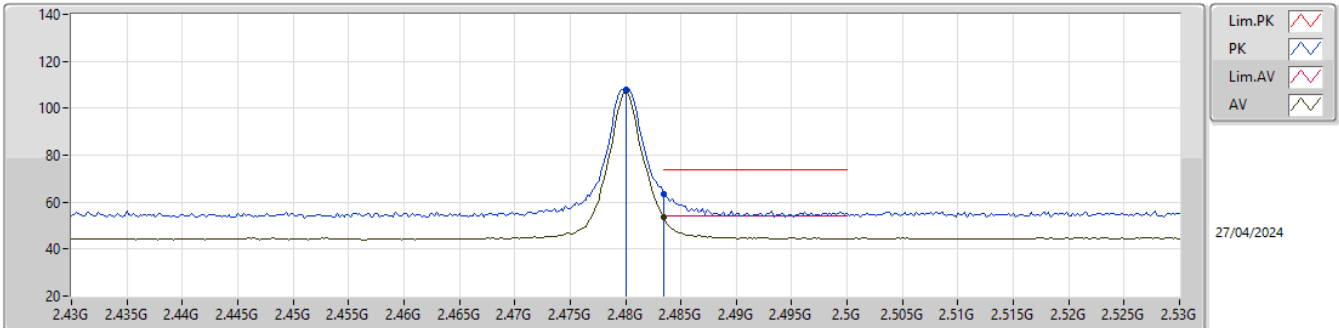


EUT\_X\_1TX  
Setting 19  
02-C-V-1

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	2.478G	117.75	Inf	-Inf	86.08	3	Horizontal	343	1.10	-	28.58	3.09	-			
AV	2.478G	116.83	Inf	-Inf	85.16	3	Horizontal	343	1.10	-	28.58	3.09	-			
PK	2.4835G	69.56	74.00	-4.44	37.87	3	Horizontal	343	1.10	-	28.60	3.09	-			
AV	2.4835G	53.32	54.00	-0.68	21.63	3	Horizontal	343	1.10	-	28.60	3.09	-			

## 2.4-2.4835GHz\_BT-LE(1Mbps)

### 2480MHz\_TX

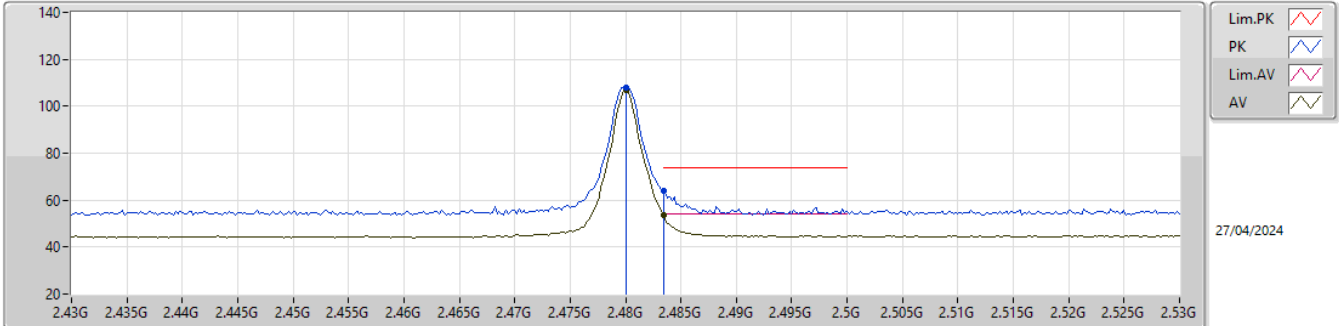


EUT\_X\_1TX  
Setting 12  
02-C-V-1

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	2.48G	108.16	Inf	-Inf	76.47	3	Vertical	4	1.38	-	28.60	3.09	-				
AV	2.48G	107.30	Inf	-Inf	75.61	3	Vertical	4	1.38	-	28.60	3.09	-				
PK	2.4835G	63.30	74.00	-10.70	31.61	3	Vertical	4	1.38	-	28.60	3.09	-				
AV	2.4835G	53.59	54.00	-0.41	21.90	3	Vertical	4	1.38	-	28.60	3.09	-				

## 2.4-2.4835GHz\_BT-LE(1Mbps)

### 2480MHz\_TX

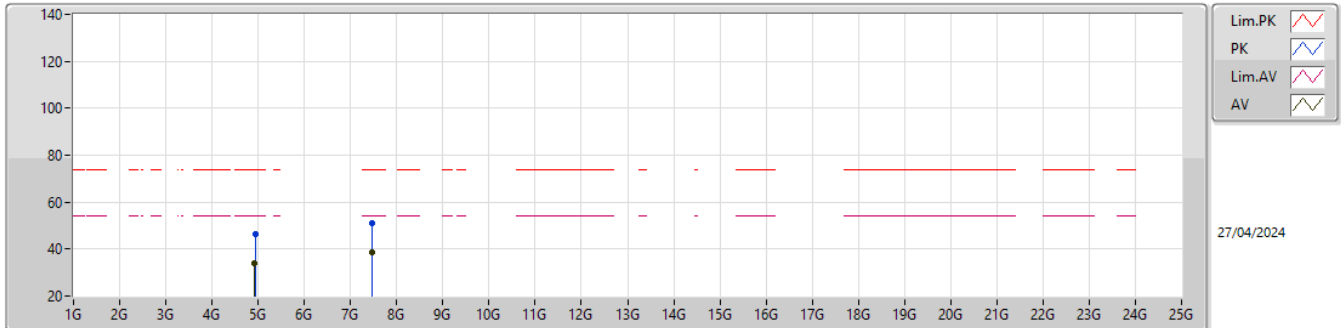


EUT\_X\_1TX  
Setting 12  
02-C-V-1

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	2.48G	107.99	Inf	-Inf	76.30	3	Horizontal	341	1.29	-	28.60	3.09	-				
AV	2.48G	107.12	Inf	-Inf	75.43	3	Horizontal	341	1.29	-	28.60	3.09	-				
PK	2.4835G	63.72	74.00	-10.28	32.03	3	Horizontal	341	1.29	-	28.60	3.09	-				
AV	2.4835G	53.46	54.00	-0.54	21.77	3	Horizontal	341	1.29	-	28.60	3.09	-				

## 2.4-2.4835GHz\_BT-LE(1Mbps)

### 2480MHz\_TX

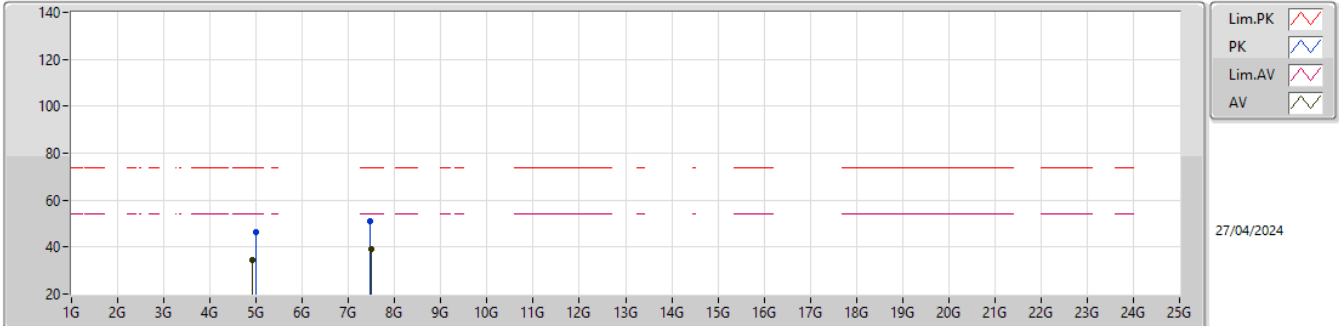


EUT\_Z\_1TX  
Setting 12  
02-C-V-1

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	4.9412G	46.18	74.00	-27.82	38.27	3	Vertical	298	2.92	-	33.38	5.13	30.60			
AV	4.9232G	34.11	54.00	-19.89	26.24	3	Vertical	298	2.92	-	33.35	5.13	30.61			
PK	7.477G	51.07	74.00	-22.93	40.13	3	Vertical	36	1.97	-	36.55	6.60	32.21			
AV	7.471G	38.81	54.00	-15.19	27.85	3	Vertical	36	1.97	-	36.56	6.60	32.20			

## 2.4-2.4835GHz\_BT-LE(1Mbps)

### 2480MHz\_TX

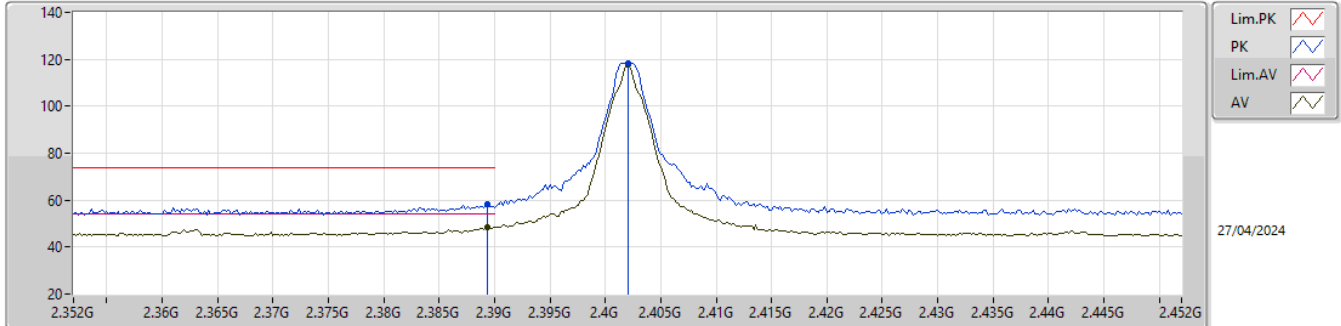


EUT\_Z\_1TX  
Setting 12  
02-C-V-1

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	5.0052G	46.42	74.00	-27.58	38.42	3	Horizontal	360	1.80	-	33.40	5.16	30.56			
AV	4.923G	34.37	54.00	-19.63	26.50	3	Horizontal	360	1.80	-	33.35	5.13	30.61			
PK	7.473G	50.86	74.00	-23.14	39.91	3	Horizontal	141	2.34	-	36.55	6.60	32.20			
AV	7.4884G	38.96	54.00	-15.04	28.05	3	Horizontal	141	2.34	-	36.52	6.60	32.21			

## 2.4-2.4835GHz\_BT-LE(2Mbps)

### 2402MHz\_TX

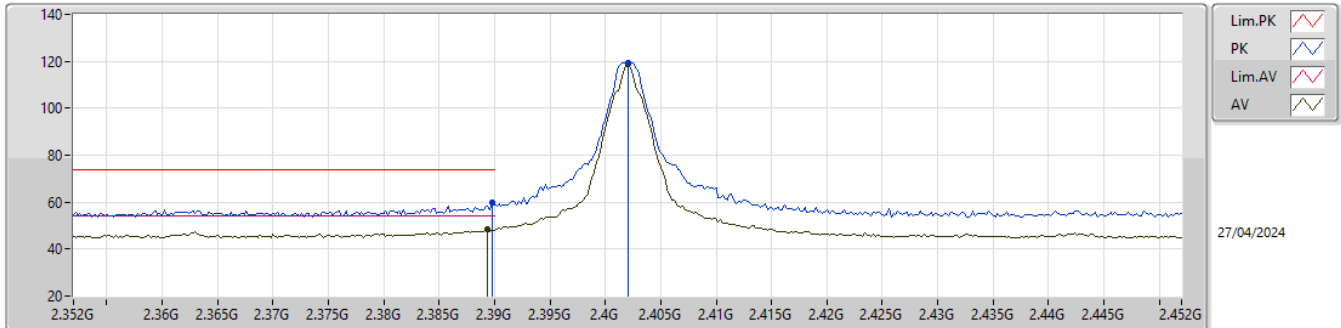


EUT\_X\_1TX  
Setting 20  
02-C-V-1

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	58.31	74.00	-15.69	26.77	3	Vertical	360	1.10	-	28.49	3.05	-			
AV	2.3894G	48.40	54.00	-5.60	16.86	3	Vertical	360	1.10	-	28.49	3.05	-			
PK	2.402G	118.27	Inf	-Inf	86.73	3	Vertical	360	1.10	-	28.48	3.06	-			
AV	2.402G	117.56	Inf	-Inf	86.02	3	Vertical	360	1.10	-	28.48	3.06	-			

## 2.4-2.4835GHz\_BT-LE(2Mbps)

### 2402MHz\_TX

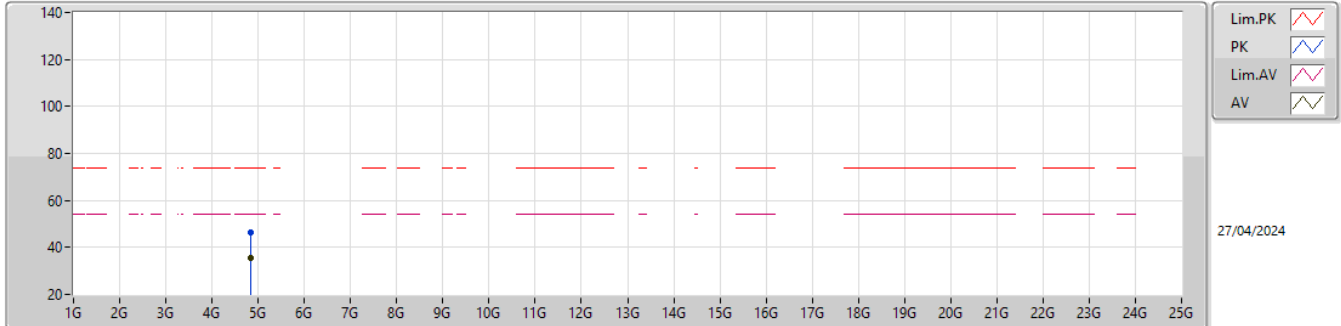


EUT\_X\_1TX  
Setting 20  
02-C-V-1

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	59.64	74.00	-14.36	28.09	3	Horizontal	346	1.12	-	28.50	3.05	-				
AV	2.3894G	48.61	54.00	-5.39	17.07	3	Horizontal	346	1.12	-	28.49	3.05	-				
PK	2.402G	119.37	Inf	-Inf	87.83	3	Horizontal	346	1.12	-	28.48	3.06	-				
AV	2.402G	118.60	Inf	-Inf	87.06	3	Horizontal	346	1.12	-	28.48	3.06	-				

2.4-2.4835GHz\_BT-LE(2Mbps)

2402MHz\_TX

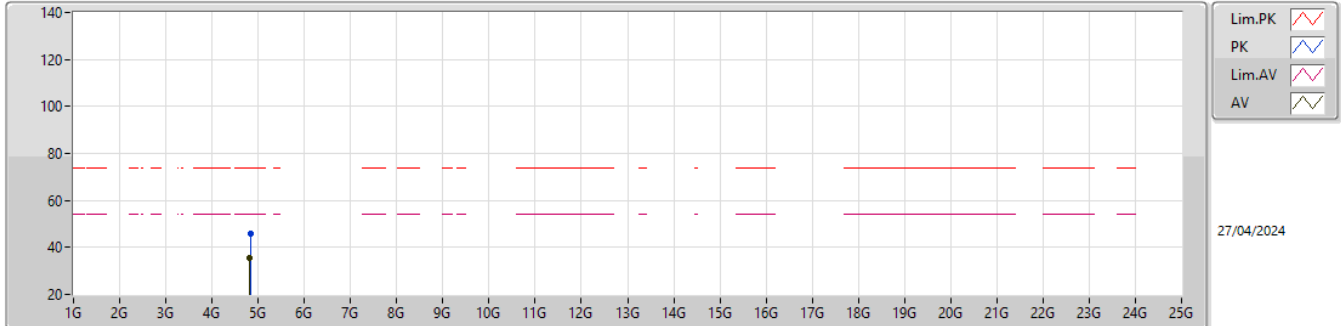


EUT\_Z\_1TX  
Setting 20  
02-C-V-1

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	4.8382G	46.13	74.00	-27.87	38.52	3	Vertical	276	2.33	-	33.18	5.10	30.67			
AV	4.8502G	35.77	54.00	-18.23	28.12	3	Vertical	276	2.33	-	33.20	5.11	30.66			

## 2.4-2.4835GHz\_BT-LE(2Mbps)

### 2402MHz\_TX

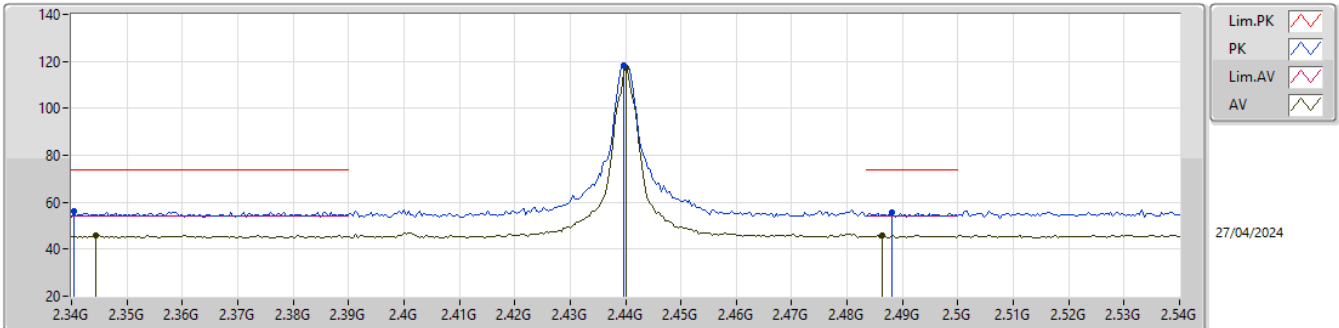


EUT\_Z\_1TX  
Setting 20  
02-C-V-1

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	4.8292G	45.92	74.00	-28.08	38.33	3	Horizontal	252	2.37	-	33.16	5.10	30.67			
AV	4.8232G	35.73	54.00	-18.27	28.16	3	Horizontal	252	2.37	-	33.15	5.10	30.68			

## 2.4-2.4835GHz\_BT-LE(2Mbps)

### 2440MHz\_TX

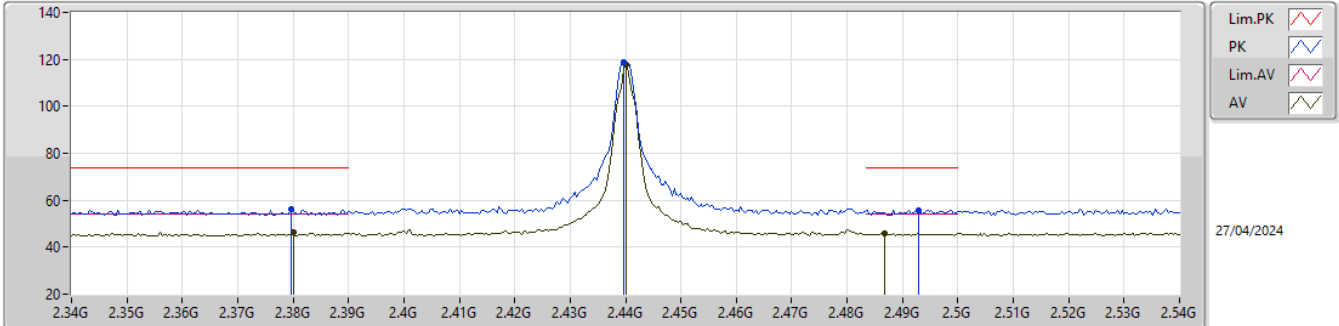


EUT\_X\_1TX  
Setting 20  
02-C-V-1

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	2.3404G	56.05	74.00	-17.95	24.72	3	Vertical	360	1.11	-	28.30	3.03	-			
AV	2.3444G	46.01	54.00	-7.99	14.68	3	Vertical	360	1.11	-	28.30	3.03	-			
PK	2.4396G	118.15	Inf	-Inf	86.57	3	Vertical	360	1.11	-	28.50	3.08	-			
AV	2.44G	117.38	Inf	-Inf	85.80	3	Vertical	360	1.11	-	28.50	3.08	-			
PK	2.488G	55.49	74.00	-18.51	23.79	3	Vertical	360	1.11	-	28.60	3.10	-			
AV	2.4864G	45.89	54.00	-8.11	14.20	3	Vertical	360	1.11	-	28.60	3.09	-			

## 2.4-2.4835GHz\_BT-LE(2Mbps)

### 2440MHz\_TX

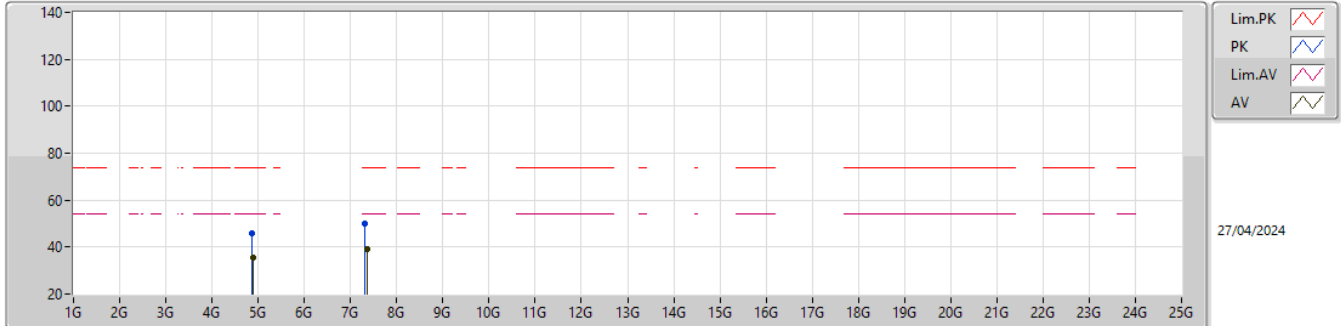


EUT\_X\_1TX  
Setting 20  
02-C-V-1

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	2.3796G	56.14	74.00	-17.86	24.69	3	Horizontal	336	1.11	-	28.40	3.05	-				
AV	2.38G	46.51	54.00	-7.49	15.06	3	Horizontal	336	1.11	-	28.40	3.05	-				
PK	2.4396G	118.72	Inf	-Inf	87.14	3	Horizontal	336	1.11	-	28.50	3.08	-				
AV	2.44G	117.95	Inf	-Inf	86.37	3	Horizontal	336	1.11	-	28.50	3.08	-				
PK	2.4928G	55.87	74.00	-18.13	24.17	3	Horizontal	336	1.11	-	28.60	3.10	-				
AV	2.4868G	45.98	54.00	-8.02	14.29	3	Horizontal	336	1.11	-	28.60	3.09	-				

2.4-2.4835GHz\_BT-LE(2Mbps)

2440MHz\_TX

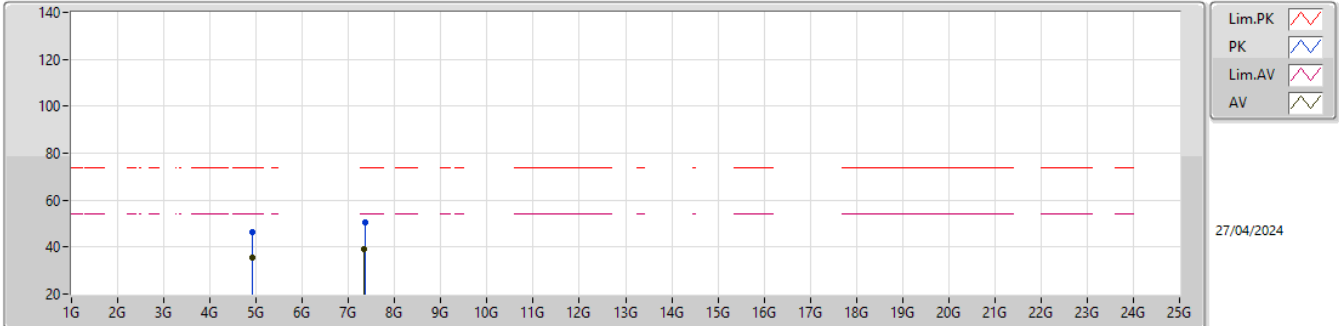


EUT\_Z\_1TX  
Setting 20  
02-C-V-1

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	4.8646G	45.80	74.00	-28.20	38.11	3	Vertical	322	1.73	-	33.23	5.11	30.65			
AV	4.8914G	35.38	54.00	-18.62	27.61	3	Vertical	322	1.73	-	33.28	5.12	30.63			
PK	7.3074G	49.77	74.00	-24.23	38.94	3	Vertical	290	2.68	-	36.43	6.51	32.11			
AV	7.3594G	39.04	54.00	-14.96	28.04	3	Vertical	290	2.68	-	36.60	6.54	32.14			

## 2.4-2.4835GHz\_BT-LE(2Mbps)

### 2440MHz\_TX

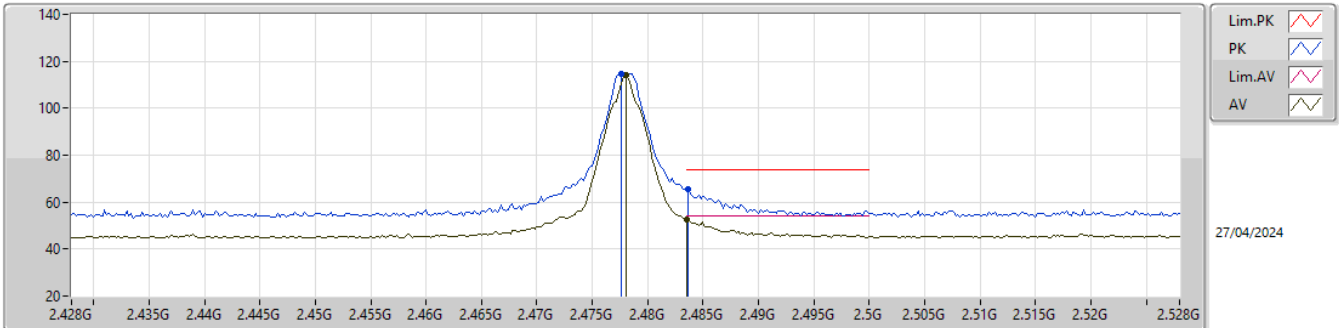


EUT\_Z\_1TX  
Setting 20  
02-C-V-1

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	4.9118G	46.35	74.00	-27.65	38.53	3	Horizontal	56	2.02	-	33.32	5.12	30.62			
AV	4.9278G	35.75	54.00	-18.25	27.87	3	Horizontal	56	2.02	-	33.36	5.13	30.61			
PK	7.3662G	50.29	74.00	-23.71	39.30	3	Horizontal	164	1.39	-	36.60	6.54	32.15			
AV	7.3388G	39.08	54.00	-14.92	28.12	3	Horizontal	164	1.39	-	36.56	6.53	32.13			

## 2.4-2.4835GHz\_BT-LE(2Mbps)

## 2478MHz\_TX

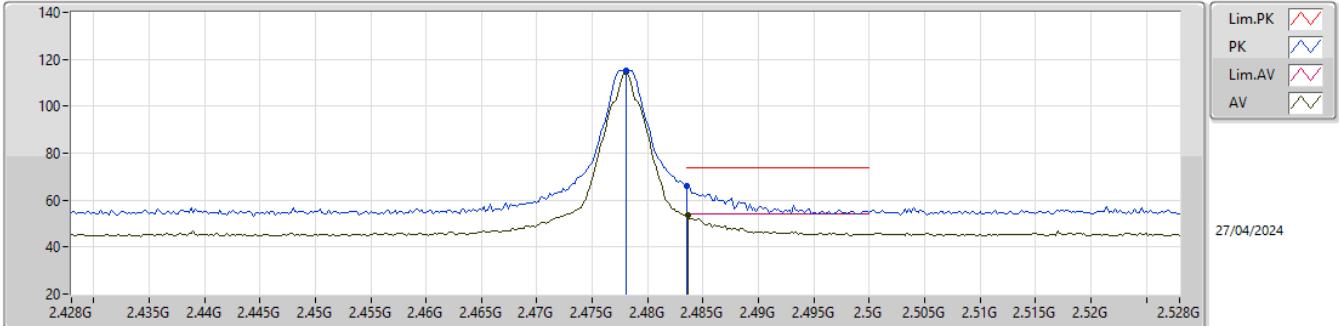


EUT\_X\_1TX  
Setting 16  
02-C-V-1

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	2.4776G	114.83	Inf	-Inf	83.16	3	Vertical	0	1.10	-	28.58	3.09	-			
AV	2.478G	114.02	Inf	-Inf	82.35	3	Vertical	0	1.10	-	28.58	3.09	-			
PK	2.4836G	65.50	74.00	-8.50	33.81	3	Vertical	0	1.10	-	28.60	3.09	-			
AV	2.4835G	52.77	54.00	-1.23	21.08	3	Vertical	0	1.10	-	28.60	3.09	-			

## 2.4-2.4835GHz\_BT-LE(2Mbps)

### 2478MHz\_TX

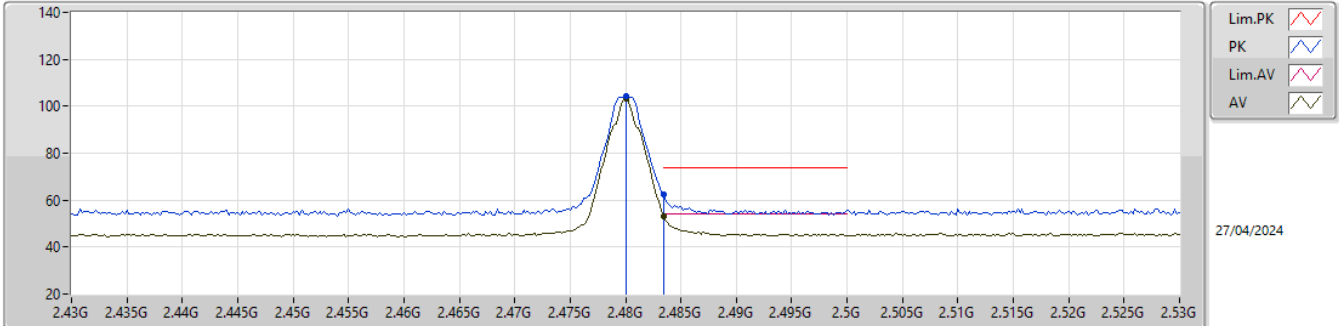


EUT\_X\_1TX  
Setting 16  
02-C-V-1

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	2.478G	115.26	Inf	-Inf	83.59	3	Horizontal	339	1.10	-	28.58	3.09	-			
AV	2.478G	114.45	Inf	-Inf	82.78	3	Horizontal	339	1.10	-	28.58	3.09	-			
PK	2.4835G	66.28	74.00	-7.72	34.59	3	Horizontal	339	1.10	-	28.60	3.09	-			
AV	2.4836G	53.60	54.00	-0.40	21.91	3	Horizontal	339	1.10	-	28.60	3.09	-			

## 2.4-2.4835GHz\_BT-LE(2Mbps)

### 2480MHz\_TX

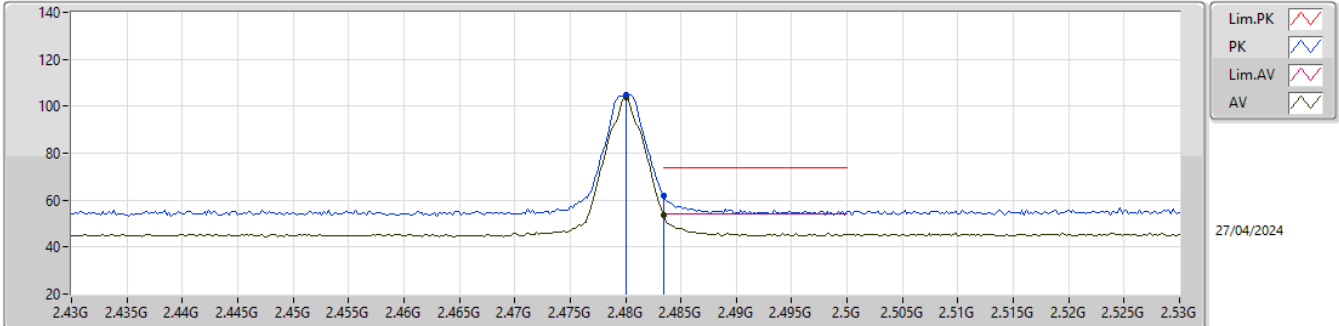


EUT\_X\_1TX  
Setting 7  
02-C-V-1

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	2.48G	104.11	Inf	-Inf	72.42	3	Vertical	3	1.36	-	28.60	3.09	-				
AV	2.48G	103.30	Inf	-Inf	71.61	3	Vertical	3	1.36	-	28.60	3.09	-				
PK	2.4835G	62.58	74.00	-11.42	30.89	3	Vertical	3	1.36	-	28.60	3.09	-				
AV	2.4835G	53.01	54.00	-0.99	21.32	3	Vertical	3	1.36	-	28.60	3.09	-				

2.4-2.4835GHz\_BT-LE(2Mbps)

2480MHz\_TX

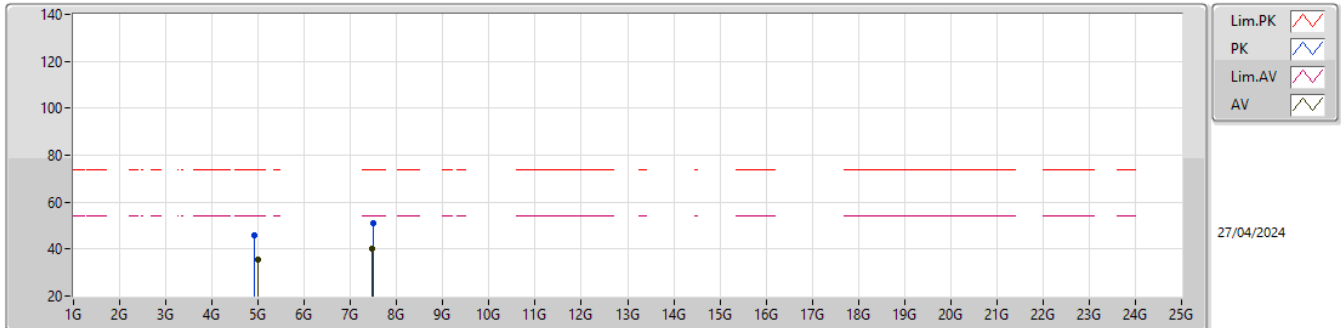


EUT\_X\_1TX  
Setting 7  
02-C-V-1

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	2.48G	104.70	Inf	-Inf	73.01	3	Horizontal	338	1.11	-	28.60	3.09	-				
AV	2.48G	103.90	Inf	-Inf	72.21	3	Horizontal	338	1.11	-	28.60	3.09	-				
PK	2.4835G	61.81	74.00	-12.19	30.12	3	Horizontal	338	1.11	-	28.60	3.09	-				
AV	2.4835G	53.74	54.00	-0.26	22.05	3	Horizontal	338	1.11	-	28.60	3.09	-				

## 2.4-2.4835GHz\_BT-LE(2Mbps)

### 2480MHz\_TX

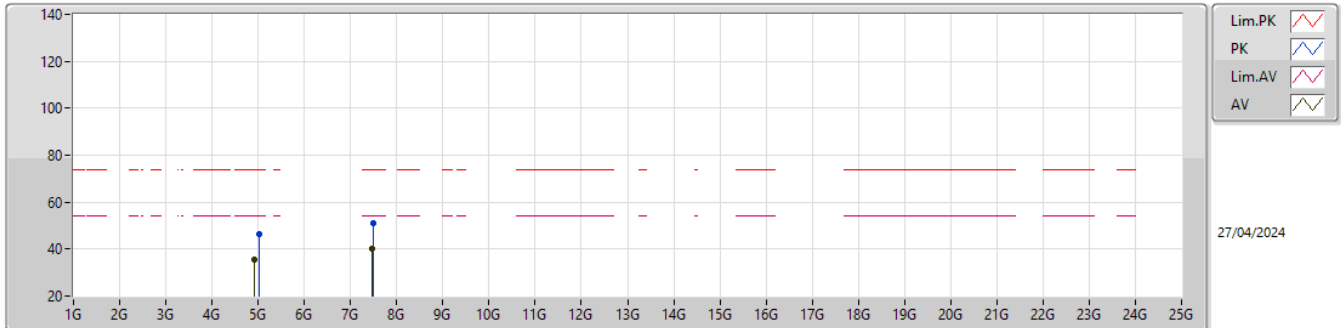


EUT\_Z\_1TX  
Setting 7  
02-C-V-1

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	4.9148G	45.70	74.00	-28.30	37.87	3	Vertical	200	1.72	-	33.33	5.12	30.62			
AV	5.0054G	35.37	54.00	-18.63	27.37	3	Vertical	200	1.72	-	33.40	5.16	30.56			
PK	7.4798G	50.93	74.00	-23.07	40.00	3	Vertical	236	2.46	-	36.54	6.60	32.21			
AV	7.4642G	40.23	54.00	-13.77	29.27	3	Vertical	236	2.46	-	36.57	6.59	32.20			

## 2.4-2.4835GHz\_BT-LE(2Mbps)

### 2480MHz\_TX



EUT\_Z\_1TX  
Setting 7  
02-C-V-1

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	5.0096G	46.34	74.00	-27.66	38.35	3	Horizontal	301	2.56	-	33.40	5.16	30.57			
AV	4.9162G	35.27	54.00	-18.73	27.44	3	Horizontal	301	2.56	-	33.33	5.12	30.62			
PK	7.4886G	51.11	74.00	-22.89	40.20	3	Horizontal	248	2.09	-	36.52	6.60	32.21			
AV	7.4728G	40.02	54.00	-13.98	29.07	3	Horizontal	248	2.09	-	36.55	6.60	32.20			