



RADIO TEST REPORT

FCC ID : QXO-AP5060
Equipment : Access Point
Brand Name : Extreme Networks
Model Name : AP5060D
Applicant : Extreme Networks, Inc.
2121 RDU Center Drive Morrisville North Carolina
United States 27560
Manufacturer : Extreme Networks, Inc.
2121 RDU Center Drive Morrisville North Carolina
United States 27560
Standard : 47 CFR FCC Part 15.247

The product was received on Jul. 10, 2025, and testing was started from Jul. 29, 2025 and completed on Oct. 23, 2025. 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 C63.10-2020 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

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TEL : 886-3-656-9065
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Report Template No.: CB-A10_9 Ver1.3



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: Cathy Chiu



1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std.	Ch. Frequency (MHz)	Channel Number
2400-2483.5	802.15.4	2405-2480	11-26 [16]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.15.4	3	1TX

Note:

- ♦ 802.15.4 uses a O-QPSK (250kbps) modulation.
- ♦ BWch is the nominal channel bandwidth.



1.1.2 Antenna Information

Set	Ant.	Port							Brand Name	Model Name	Antenna Type	Connector	Gain (dBi)
		WLAN 2.4GHz (Radio 1)	WLAN 5GHz, 6GHz (Radio 1)	WLAN 5GHz (Radio 2)	WLAN 6GHz (Radio 3)	WLAN 2.4GHz, 5GHz, 6GHz (Scanning Radio 4)	Bluetooth / IEEE802.15.4 (Radio 5)	GPS (Radio 6)					
1	1	-	1	-	-	-	-	-	WNC	95XPAM15.G25	Patch	I-PEX	Note 1
	2	-	2	-	-	-	-	-	WNC	95XPAM15.G26	Patch	I-PEX	
	3	-	3	-	-	-	-	-	WNC	95XPAM15.G27	Patch	I-PEX	
	4	-	4	-	-	-	-	-	WNC	95XPAM15.G28	Patch	I-PEX	
2	5	-	1	-	-	-	-	-	WNC	95XPAM15.G29	Patch	I-PEX	
	6	-	2	-	-	-	-	-	WNC	95XPAM15.G29	Patch	I-PEX	
	7	-	3	-	-	-	-	-	WNC	95XPAM15.G29	Patch	I-PEX	
	8	-	4	-	-	-	-	-	WNC	95XPAM15.G29	Patch	I-PEX	
3	9	1	-	-	-	-	-	-	WNC	95XPAM15.G19	Patch	I-PEX	
	10	2	-	-	-	-	-	-	WNC	95XPAM15.G19	Patch	I-PEX	
	11	3	-	-	-	-	-	-	WNC	95XPAM15.G20	Patch	I-PEX	
	12	4	-	-	-	-	-	-	WNC	95XPAM15.G20	Patch	I-PEX	
4	13	-	-	1	-	-	-	-	WNC	95XPAM15.G23	Patch	I-PEX	
	14	-	-	2	-	-	-	-	WNC	95XPAM15.G23	Patch	I-PEX	
	15	-	-	3	-	-	-	-	WNC	95XPAM15.G23	Patch	I-PEX	
	16	-	-	4	-	-	-	-	WNC	95XPAM15.G23	Patch	I-PEX	
5	17	-	-	1	-	-	-	-	WNC	95XPAM15.G21	Patch	I-PEX	
	18	-	-	2	-	-	-	-	WNC	95XPAM15.G21	Patch	I-PEX	
	19	-	-	3	-	-	-	-	WNC	95XPAM15.G22	Patch	I-PEX	
	20	-	-	4	-	-	-	-	WNC	95XPAM15.G22	Patch	I-PEX	
6	21	-	-	-	1	-	-	-	WNC	95XPAM15.G33	Patch	I-PEX	
	22	-	-	-	2	-	-	-	WNC	95XPAM15.G33	Patch	I-PEX	
	23	-	-	-	3	-	-	-	WNC	95XPAM15.G34	Patch	I-PEX	
	24	-	-	-	4	-	-	-	WNC	95XPAM15.G34	Patch	I-PEX	
7	25	-	-	-	1	-	-	-	WNC	95XPAM15.G31	Patch	I-PEX	
	26	-	-	-	2	-	-	-	WNC	95XPAM15.G31	Patch	I-PEX	
	27	-	-	-	3	-	-	-	WNC	95XPAM15.G32	Patch	I-PEX	
	28	-	-	-	4	-	-	-	WNC	95XPAM15.G32	Patch	I-PEX	



8	29	-	-	-	-	1	-	-	WNC	95XPAM15.G35	Dipole	I-PEX	Note 1
	30	-	-	-	-	2	-	-	WNC	95XPAM15.G36	Dipole	I-PEX	
9	31	-	-	-	-	-	2	-	WNC	95XPAM15.G37	Metal PIFA	I-PEX	
	32	-	-	-	-	-	3	-	WNC	95XPAM15.G38	Metal PIFA	I-PEX	
	33	-	-	-	-	-	1	-	WNC	95XPAM15.G39	Metal PIFA	I-PEX	
10	34	-	-	-	-	-	-	1	WNC	95XPAM15.G40	Metal PIFA	I-PEX	

Note 1:

NOTE 1:

Set	Ant.	Antenna Gain (dBi)									
		WLAN 2.4GHz (Radio 1)	WLAN 5GHz, 6GHz (Radio 1)		WLAN 5GHz (Radio 2)	WLAN 6GHz (Radio 3)	WLAN 2.4GHz, 5GHz, 6GHz (Scanning Radio 4)			Bluetooth / IEEE802.15.4 (Radio 5)	GPS (Radio 6)
			UNII 1~3	UNII 5~8	UNII 1~3	UNII 5~8	2.4GHz	UNII 1~3	UNII 5~8		
1	1	-	6.4	7.4	-	-	-	-	-	-	-
	2	-	7.3	7.5	-	-	-	-	-	-	-
	3	-	6.1	6.3	-	-	-	-	-	-	-
	4	-	7.7	6.8	-	-	-	-	-	-	-
2	5	-	10.6	10.9	-	-	-	-	-	-	-
	6	-	10.3	10.8	-	-	-	-	-	-	-
	7	-	10.4	10.8	-	-	-	-	-	-	-
	8	-	10.8	11	-	-	-	-	-	-	-
3	9	6.8	-	-	-	-	-	-	-	-	-
	10	7.3	-	-	-	-	-	-	-	-	-
	11	7.0	-	-	-	-	-	-	-	-	-
	12	7.9	-	-	-	-	-	-	-	-	-
4	13	-	-	-	10.1	-	-	-	-	-	-
	14	-	-	-	10.1	-	-	-	-	-	-
	15	-	-	-	10.2	-	-	-	-	-	-
	16	-	-	-	10.1	-	-	-	-	-	-
5	17	-	-	-	7.4	-	-	-	-	-	-
	18	-	-	-	7.6	-	-	-	-	-	-
	19	-	-	-	7.0	-	-	-	-	-	-
	20	-	-	-	7.5	-	-	-	-	-	-
6	21	-	-	-	-	11.1	-	-	-	-	-
	22	-	-	-	-	10.4	-	-	-	-	-
	23	-	-	-	-	10.6	-	-	-	-	-
	24	-	-	-	-	10.4	-	-	-	-	-
7	25	-	-	-	-	6.1	-	-	-	-	-
	26	-	-	-	-	5.6	-	-	-	-	-
	27	-	-	-	-	5.5	-	-	-	-	-
	28	-	-	-	-	5.4	-	-	-	-	-
8	29	-	-	-	-	-	8.2	7.6	8.8	-	-
	30	-	-	-	-	-	6.2	8.1	8.7	-	-
9	31	-	-	-	-	-	-	-	-	4.8	-
	32	-	-	-	-	-	-	-	-	3.3	-
	33	-	-	-	-	-	-	-	-	5.3	-
10	34	-	-	-	-	-	-	-	-	-	3.4



Set	Ant.	Cable loss (dB)				
		WLAN 2.4GHz (Radio 1)	WLAN 5GHz, 6GHz (Radio 1)		WLAN 5GHz (Radio 2)	WLAN 6GHz (Radio 3)
			UNII 1-3	UNII 5-8	UNII 1-3	UNII 5-8
1	1	-	2.94	2.94	-	-
	2	-	2.94	2.94	-	-
	3	-	2.94	2.94	-	-
	4	-	2.94	2.94	-	-
2	5	-	3.02	3.02	-	-
	6	-	3.02	3.02	-	-
	7	-	3.02	3.02	-	-
	8	-	3.02	3.02	-	-
3	9	1.83	-	-	-	-
	10	1.83	-	-	-	-
	11	1.83	-	-	-	-
	12	1.83	-	-	-	-
4	13	-	-	-	3.95	-
	14	-	-	-	3.95	-
	15	-	-	-	3.95	-
	16	-	-	-	3.95	-
5	17	-	-	-	3.84	-
	18	-	-	-	3.84	-
	19	-	-	-	3.84	-
	20	-	-	-	3.84	-
6	21	-	-	-	-	3.91
	22	-	-	-	-	3.91
	23	-	-	-	-	3.91
	24	-	-	-	-	3.91
7	25	-	-	-	-	4.13
	26	-	-	-	-	4.13
	27	-	-	-	-	4.13
	28	-	-	-	-	4.13
8	29	-	-	-	-	-
	30	-	-	-	-	-
9	31	-	-	-	-	-
	32	-	-	-	-	-
10	33	-	-	-	-	-
	34	-	-	-	-	-



Set	Ant.	Net Gain (dBi)									
		WLAN 2.4GHz (Radio 1)	WLAN 5GHz, 6GHz (Radio 1)		WLAN 5GHz (Radio 2)	WLAN 6GHz (Radio 3)	WLAN 2.4GHz, 5GHz, 6GHz (Scanning Radio 4)			Bluetooth / IEEE802.15.4 (Radio 5)	GPS (Radio 6)
			UNII 1~3	UNII 5~8	UNII 1~3	UNII 5~8	2.4GHz	UNII 1~3	UNII 5~8		
1	1	-	3.46	4.46	-	-	-	-	-	-	-
	2	-	4.36	4.56	-	-	-	-	-	-	-
	3	-	3.16	3.36	-	-	-	-	-	-	-
	4	-	4.76	3.86	-	-	-	-	-	-	-
2	5	-	7.58	7.88	-	-	-	-	-	-	-
	6	-	7.28	7.78	-	-	-	-	-	-	-
	7	-	7.38	7.78	-	-	-	-	-	-	-
	8	-	7.78	7.98	-	-	-	-	-	-	-
3	9	4.97	-	-	-	-	-	-	-	-	-
	10	5.47	-	-	-	-	-	-	-	-	-
	11	5.17	-	-	-	-	-	-	-	-	-
	12	6.07	-	-	-	-	-	-	-	-	-
4	13	-	-	-	6.15	-	-	-	-	-	-
	14	-	-	-	6.15	-	-	-	-	-	-
	15	-	-	-	6.25	-	-	-	-	-	-
	16	-	-	-	6.15	-	-	-	-	-	-
5	17	-	-	-	3.56	-	-	-	-	-	-
	18	-	-	-	3.76	-	-	-	-	-	-
	19	-	-	-	3.16	-	-	-	-	-	-
	20	-	-	-	3.66	-	-	-	-	-	-
6	21	-	-	-	-	7.19	-	-	-	-	-
	22	-	-	-	-	6.49	-	-	-	-	-
	23	-	-	-	-	6.69	-	-	-	-	-
	24	-	-	-	-	6.49	-	-	-	-	-
7	25	-	-	-	-	1.97	-	-	-	-	-
	26	-	-	-	-	1.47	-	-	-	-	-
	27	-	-	-	-	1.37	-	-	-	-	-
	28	-	-	-	-	1.27	-	-	-	-	-
8	29	-	-	-	-	-	8.2	7.6	8.8	-	-
	30	-	-	-	-	-	6.2	8.1	8.7	-	-
9	31	-	-	-	-	-	-	-	-	4.8	-
	32	-	-	-	-	-	-	-	-	3.3	-
	33	-	-	-	-	-	-	-	-	5.3	-
10	34	-	-	-	-	-	-	-	-	-	3.4

Note 2: The EUT has ten sets of antennas.

Note 3:

The antenna sets 1, 3, 5, 7, 8 are used for Wide Beam: 70 degree.

The antenna sets 2, 4, 6 are used for Narrow Beam: 20 degree.

Note 4: Only the highest gain antenna was selected to test and record in this report. Thus, Ant. 33 was selected to perform the test for Radio 5_Bluetooth / IEEE802.15.4.

Note 5: The 5GHz UNII 2A, 2C, and 6GHz UNII 6, 8 are not enabled for Radio 1, 2, 3, and Scanning Radio 4 at this time.

Note 6: The above information was declared by manufacturer.

Note 7: Directional gain information

Type	Maximum Output Power	Power Spectral Density
Non-BF	Directional gain = Max.gain + array gain. For power measurements on IEEE 802.11 devices Array Gain = 0 dB (i.e., no array gain) for N ANT ≤ 4	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{ANT}} \left[\sum_{k=1}^{N_{ANT}} g_{j,k} \right]^2}{N_{ANT}} \right]$
BF	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{ANT}} \left[\sum_{k=1}^{N_{ANT}} g_{j,k} \right]^2}{N_{ANT}} \right]$	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{ANT}} \left[\sum_{k=1}^{N_{ANT}} g_{j,k} \right]^2}{N_{ANT}} \right]$

Ex.

Directional Gain (NSS1) formula :

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{ANT}} \left[\sum_{k=1}^{N_{ANT}} g_{j,k} \right]^2}{N_{ANT}} \right]$$

$$NSS1(g1,1) = 10^{G1/20} ; NSS1(g1,2) = 10^{G2/20} ; NSS1(g1,2) = 10^{G3/20} ; NSS1(g1,2) = 10^{G4/20}$$

$$g_{j,k} = (NSS1(g1,1) + NSS1(g1,2) + NSS1(g1,3) + NSS1(g1,4))^2$$

$$DG = 10 \log[(NSS1(g1,1) + NSS1(g1,2) + NSS1(g1,3) + NSS1(g1,4))^2 / N_{ANT}] \Rightarrow 10$$

$$\log[(10^{G1/20} + 10^{G2/20} + 10^{G3/20} + 10^{G4/20})^2 / N_{ANT}]$$

Where ;

Radio 1

2.4G

G1= 4.97 dBi ; G2= 5.47 dBi ; G3= 5.17 dBi ; G4= 6.07 dBi ;

2T1S DG= 8.23dBi; 2T2S DG= 5.23dBi; 4T1S DG= 11.45dBi; 4T4S DG= 5.44dBi;

Narrow (20°)

5G UNII-1

G1= 7.58 dBi ; G2= 7.28 dBi ; G3= 7.38 dBi ; G4= 7.78 dBi ;

2T1S DG= 10.44dBi; 2T2S DG= 7.43dBi; 4T1S DG= 13.53dBi; 4T4S DG= 7.51dBi;

5G UNII-2A

G1= 7.58 dBi ; G2= 7.28 dBi ; G3= 7.38 dBi ; G4= 7.78 dBi ;

2T1S DG= 10.44dBi; 2T2S DG= 7.43dBi; 4T1S DG= 13.53dBi; 4T4S DG= 7.51dBi;

Wide (70°)

5G UNII-1 G1= 3.46 dBi ; G2= 4.36 dBi ; G3= 3.16 dBi ; G4= 4.76 dBi ;

2T1S DG= 6.93dBi; 2T2S DG= 3.93dBi; 4T1S DG= 9.98dBi; 4T4S DG= 3.98dBi;

5G UNII-2A G1= 3.46 dBi ; G2= 4.36 dBi ; G3= 3.16 dBi ; G4= 4.76 dBi ;

2T1S DG= 6.93dBi; 2T2S DG= 3.93dBi; 4T1S DG= 9.98dBi; 4T4S DG= 3.98dBi;

**Narrow (20°)**

6G UNII-7 G1= 7.88 dBi ; G2= 7.78 dBi ; G3= 7.78 dBi ; G4= 7.98 dBi ;
2T1S DG= 10.84dBi; 2T2S DG= 7.83dBi; 4T1S DG= 13.88dBi; 4T4S DG= 7.86dBi

6G UNII-8 G1= 7.88 dBi ; G2= 7.78 dBi ; G3= 7.78 dBi ; G4= 7.98 dBi ;
2T1S DG= 10.84dBi; 2T2S DG= 7.83dBi; 4T1S DG= 13.88dBi; 4T4S DG= 7.86dBi

Wide(70°)

6G UNII-7 G1= 4.46 dBi ; G2= 4.56 dBi ; G3= 3.36 dBi ; G4= 3.86 dBi ;
2T1S DG= 7.52dBi; 2T2S DG= 4.51dBi; 4T1S DG= 10.09dBi; 4T4S DG= 4.09dBi

6G UNII-8 G1= 4.46 dBi ; G2= 4.56 dBi ; G3= 3.36 dBi ; G4= 3.86 dBi ;
2T1S DG= 7.52dBi; 2T2S DG= 4.51dBi; 4T1S DG= 10.09dBi; 4T4S DG= 4.09dBi

Radio 2**Narrow (20°)**

5G UNII-1
G1= 6.15 dBi ; G2= 6.15 dBi ; G3= 6.25 dBi ; G4= 6.15 dBi ;
2T1S DG= 9.16dBi; 2T2S DG= 6.15dBi; 4T1S DG= 12.20dBi; 4T4S DG= 6.18dBi;

5G UNII-2A
G1= 6.15 dBi ; G2= 6.15 dBi ; G3= 6.25 dBi ; G4= 6.15 dBi ;
2T1S DG= 9.16dBi; 2T2S DG= 6.15dBi; 4T1S DG= 12.20dBi; 4T4S DG= 6.18dBi;

5G UNII-2C
G1= 6.15 dBi ; G2= 6.15 dBi ; G3= 6.25 dBi ; G4= 6.15 dBi ;
2T1S DG= 9.16dBi; 2T2S DG= 6.15dBi; 4T1S DG= 12.20dBi; 4T4S DG= 6.18dBi;

5G UNII-3
G1= 6.15 dBi ; G2= 6.15 dBi ; G3= 6.25 dBi ; G4= 6.15 dBi ;
2T1S DG= 9.16dBi; 2T2S DG= 6.15dBi; 4T1S DG= 12.20dBi; 4T4S DG= 6.18dBi;

Wide (70°)

5G UNII-1
G1= 3.56 dBi ; G2= 3.76 dBi ; G3= 3.16 dBi ; G4= 3.66 dBi
2T1S DG= 6.67dBi; 2T2S DG= 3.66dBi; 4T1S DG= 9.56dBi; 4T4S DG= 3.54dBi;

**5G UNII-2A**

G1= 3.56 dBi ; G2= 3.76 dBi ; G3= 3.16 dBi ; G4= 3.66 dBi

2T1S DG= 6.67dBi; 2T2S DG= 3.66dBi; 4T1S DG= 9.56dBi; 4T4S DG= 3.54dBi;

5G UNII-2C

G1= 3.56 dBi ; G2= 3.76 dBi ; G3= 3.16 dBi ; G4= 3.66 dBi

2T1S DG= 6.67dBi; 2T2S DG= 3.66dBi; 4T1S DG= 9.56dBi; 4T4S DG= 3.54dBi;

5G UNII-3

G1= 3.56 dBi ; G2= 3.76 dBi ; G3= 3.16 dBi ; G4= 3.66 dBi

2T1S DG= 6.67dBi; 2T2S DG= 3.66dBi; 4T1S DG= 9.56dBi; 4T4S DG= 3.54dBi;

Radio3**Narrow (20°)**

6G UNII-5 G1= 7.19 dBi ; G2= 6.49 dBi ; G3= 6.69 dBi ; G4= 6.49 dBi ;

2T1S DG= 9.86dBi; 2T2S DG= 6.85dBi; 4T1S DG= 12.74dBi; 4T4S DG= 6.72dBi

6G UNII-6 G1= 7.19 dBi ; G2= 6.49 dBi ; G3= 6.69 dBi ; G4= 6.49 dBi ;

2T1S DG= 9.86dBi; 2T2S DG= 6.85dBi; 4T1S DG= 12.74dBi; 4T4S DG= 6.72dBi

6G UNII-7 G1= 7.19 dBi ; G2= 6.49 dBi ; G3= 6.69 dBi ; G4= 6.49 dBi ;

2T1S DG= 9.86dBi; 2T2S DG= 6.85dBi; 4T1S DG= 12.74dBi; 4T4S DG= 6.72dBi

6G UNII-8 G1= 7.19 dBi ; G2= 6.49 dBi ; G3= 6.69 dBi ; G4= 6.49 dBi ;

2T1S DG= 9.86dBi; 2T2S DG= 6.85dBi; 4T1S DG= 12.74dBi; 4T4S DG= 6.72dBi

Wide(70°)

6G UNII-5 G1= 1.97 dBi ; G2= 1.47 dBi ; G3= 1.37 dBi ; G4= 1.27 dBi ;

2T1S DG= 4.73dBi; 2T2S DG= 1.73dBi; 4T1S DG= 7.54dBi; 4T4S DG= 1.53dBi

6G UNII-6 G1= 1.97 dBi ; G2= 1.47 dBi ; G3= 1.37 dBi ; G4= 1.27 dBi ;

2T1S DG= 4.73dBi; 2T2S DG= 1.73dBi; 4T1S DG= 7.54dBi; 4T4S DG= 1.53dBi

6G UNII-7 G1= 1.97 dBi ; G2= 1.47 dBi ; G3= 1.37 dBi ; G4= 1.27 dBi ;

2T1S DG= 4.73dBi; 2T2S DG= 1.73dBi; 4T1S DG= 7.54dBi; 4T4S DG= 1.53dBi

6G UNII-8 G1= 1.97 dBi ; G2= 1.47 dBi ; G3= 1.37 dBi ; G4= 1.27 dBi ;

2T1S DG= 4.73dBi; 2T2S DG= 1.73dBi; 4T1S DG= 7.54dBi; 4T4S DG= 1.53dBi

**Radio 4**

2.4G G1= 8.2 dBi ; G2= 6.2 dBi ;DG= 10.27dBi

2T1S DG= 10.27dBi; 2T2S DG= 7.31dBi;

5G UNII-1 G1= 7.6 dBi ; G2= 8.1 dBi ;

2T1S DG= 10.86dBi; 2T2S DG= 7.86dBi;

5G UNII-2A G1= 7.6 dBi ; G2= 8.1 dBi ;

2T1S DG= 10.86dBi; 2T2S DG= 7.86dBi;

5G UNII-2C G1= 7.6 dBi ; G2= 8.1 dBi ;

2T1S DG= 10.86dBi; 2T2S DG= 7.86dBi;

5G UNII-3 G1= 7.6 dBi ; G2= 8.1 dBi ;

2T1S DG= 10.86dBi; 2T2S DG= 7.86dBi;

6G UNII-5 G1= 8.8 dBi ; G2= 8.7 dBi ;

2T2S DG= 8.75dBi

6G UNII-6 G1= 8.8 dBi ; G2= 8.7 dBi ;

2T2S DG= 8.75dB

6G UNII-7 G1= 8.8 dBi ; G2= 8.7 dBi ;

2T2S DG= 8.75dB

6G UNII-8 G1= 8.8 dBi ; G2= 8.7 dBi ;

2T2S DG= 8.75dB

EUT operation mode:**For Radio 1****For 2.4GHz:****For IEEE 802.11b/g/n/VHT/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 5GHz:**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 6GHz:**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 2**For 5GHz:****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:****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 Scanning Radio 4**For 2.4GHz:****For IEEE 802.11b/g/n/VHT/ax/be mode (2TX/2RX):**



Port 1, Port 2 can be used as transmitting/receiving antenna.
Port 1, Port 2 could transmit/receive simultaneously.

For 5GHz:**For IEEE 802.11a/n/ac/ax/be mode (2TX/2RX):**

Port 1, Port 2 can be used as transmitting/receiving antenna.
Port 1, Port 2 could transmit/receive simultaneously.

For 6GHz:**For IEEE 802.11ax/be mode (2TX/2RX):**

Port 1, Port 2 can be used as transmitting/receiving antenna.
Port 1, Port 2 could transmit/receive simultaneously.

For Radio 5**Bluetooth / IEEE802.15.4 (1TX/1RX):**

The EUT supports the antenna with TX and RX diversity functions.

Port 1, Port 2, Port 3 support transmit and receive functions, but only one of them will be used at one time.

For Radio 6**GPS (1RX):**

Only Port 1 can be used as receiving antenna.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF (dB)	T (s)	VBW (Hz) 1/T
802.15.4	0.892	0.5	4.259m	300

Note:

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

1.1.4 EUT Operational Condition

EUT Power Type	From PoE			
Function	☒	Point-to-multipoint	☐	Point-to-point
Test Software Version	Tera Term 4.75			

Note: The above information was declared by manufacturer.

1.1.5 Table for EUT Support Function

Function
AP
Bridge
Mesh

Note1: For above table list, only AP mode was tested and recorded in this test.

Note2: The above information was declared by manufacturer.

**1.1.6 Table for Radio Function**

Radio (R)	WLAN 2.4GHz	5GHz	Scanning radio (WLAN 2.4GHz / 5GHz / 6GHz)	6GHz	Bluetooth / IEEE802.15.4	GPS
R1	V (AP, Bridge, Mesh)	V (AP, Bridge, Mesh for UNII 1)	-	V (AP for 6GHz UNII 7)	-	-
R2	-	V (AP for UNII 1, 3 or UNII 3 / Bridge, Mesh for UNII 3)	-	-	-	-
R3	-	-	-	V (AP for 6GHz UNII 5, 7 or UNII 5)	-	-
R4	-	-	V (AP, for 2.4GHz, 5GHz UNII 1, 3, 6GHz UNII 5, 7)	-	-	-
R5	-	-	-	-	V	-
R6	-	-	-	-	-	V

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 C63.10-2020

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

- ♦ FCC KDB 558074 D01 v05r02
- ♦ FCC KDB 662911 D01 v02r01
- ♦ FCC KDB 414788 D01 v01r01

1.3 Testing Location Information

Testing Location Information	
Test Lab. : Sporton International Inc. Hsinchu Laboratory	
Hsinchu (TAF: 3787)	ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.) 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	TH03-CB	Owen Hsu	22~23.1 / 58~61	Aug. 14, 2025~ Aug. 15, 2025
Radiated (Below 1GHz)	03CH05-CB	George Fan	21.5~22.9 / 57~60	Oct. 22, 2025~ Oct. 23, 2025
Radiated (Above 1GHz)	03CH06-CB	George Fan	21.9~23.1 / 60~62	Jul. 29, 2025~ Aug. 12, 2025
AC Conduction	CO01-CB	Elvin Yeh	23~24 / 63~64	Sep. 16, 2025

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 Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.8 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	3.8 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	4.7 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.2 dB	Confidence levels of 95%
Conducted Emission	2.5 dB	Confidence levels of 95%
Output Power Measurement	1.3 dB	Confidence levels of 95%
Power Density Measurement	2.0 dB	Confidence levels of 95%
Bandwidth Measurement	1.0 %	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

Mode
802.15.4_1TX
2405MHz
2440MHz
2475MHz
2480MHz



2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	Normal Link
1	EUT_R1 (2.4GHz_set 3)+R2 (5GHz UNII 1, 3_set 5)+R3 (6GHz UNII 5, 7_set 7)+Scanning R4 (2.4GHz_set 8)+R5 (BT_Ant. 31)+R6 (GPS)+PoE(Powered from Eth0+Eth1 port/Test Eth0 port)
2	EUT_R1 (2.4GHz_set 3)+R2 (5GHz UNII 1, 3_set 5)+R3 (6GHz UNII 5, 7_set 7)+Scanning R4 (2.4GHz_set 8)+R5 (BT_Ant. 31)+R6 (GPS)+PoE(Powered from Eth0+Eth1 port/Test Eth1 port)
Mode 2 has been evaluated to be the worst case between Mode 1~2, thus measurement for Mode 3~4 will follow this same test mode.	
3	EUT_R1 (2.4GHz_set 3)+R2 (5GHz UNII 1, 3_set 5)+R3 (6GHz UNII 5, 7_set 7)+Scanning R4 (2.4GHz_set 8)+R5 (BT_Ant. 32)+R6 (GPS)+PoE(Powered from Eth0+Eth1 port/Test Eth1 port)
4	EUT_R1 (2.4GHz_set 3)+R2 (5GHz UNII 1, 3_set 5)+R3 (6GHz UNII 5, 7_set 7)+Scanning R4 (2.4GHz_set 8)+R5 (BT_Ant. 33)+R6 (GPS)+PoE(Powered from Eth0+Eth1 port/Test Eth1 port)
Mode 2 has been evaluated to be the worst case between Mode 1~4, thus measurement for Mode 5 will follow this same test mode.	
5	EUT_R1 (2.4GHz_set 3)+R2 (5GHz UNII 1, 3_set 5)+R3 (6GHz UNII 5, 7_set 7)+Scanning R4 (2.4GHz_set 8)+R5 (IEEE 802.15.4_Ant. 31)+R6 (GPS)+PoE(Powered from Eth0+Eth1 port/Test Eth1 port)
Mode 5 has been evaluated to be the worst case between Mode 1~5, thus measurement for Mode 6~7 will follow this same test mode.	
6	EUT_R1 (2.4GHz_set 3)+R2 (5GHz UNII 1, 3_set 5)+R3 (6GHz UNII 5, 7_set 7)+Scanning R4 (5GHz UNII 1, 3_set 8)+R5 (IEEE 802.15.4_Ant. 31)+R6 (GPS)+PoE(Powered from Eth0+Eth1 port/Test Eth1 port)
7	EUT_R1 (2.4GHz_set 3)+R2 (5GHz UNII 1, 3_set 5)+R3 (6GHz UNII 5, 7_set 7)+Scanning R4 (6GHz UNII 5, 7_set 8)+R5 (IEEE 802.15.4_Ant. 31)+R6 (GPS)+PoE(Powered from Eth0+Eth1 port/Test Eth1 port)
Mode 7 has been evaluated to be the worst case between Mode 1~7, thus measurement for Mode 8~12 will follow this same test mode.	
8	EUT_R1 (2.4GHz_set 3)+R2 (5GHz UNII 1, 3_set 4)+R3 (6GHz UNII 5, 7_set 6)+Scanning R4 (6GHz UNII 5, 7_set 8)+R5 (IEEE 802.15.4_Ant. 31)+R6 (GPS)+PoE(Powered from Eth0+Eth1 port/Test Eth1 port)
9	EUT_R1 (5GHz UNII 1_set 1)+R2 (5GHz UNII 3_set 5)+R3 (6GHz UNII 5, 7_set 7)+Scanning R4 (6GHz UNII 5, 7_set 8)+R5 (IEEE 802.15.4_Ant. 31)+R6 (GPS)+PoE(Powered from Eth0+Eth1 port/Test Eth1 port)
10	EUT_R1 (5GHz UNII 1_set 2)+R2 (5GHz UNII 3_set 4)+R3 (6GHz UNII 5, 7_set 6)+Scanning R4 (6GHz UNII 5, 7_set 8)+R5 (IEEE 802.15.4_Ant. 31)+R6 (GPS)+PoE(Powered from Eth0+Eth1 port/Test Eth1 port)
11	EUT_R1 (6GHz UNII 7_set 1)+R2 (5GHz UNII 1, 3_set 5)+R3 (6GHz UNII 5_set 7)+Scanning R4 (6GHz UNII 5, 7_set 8)+R5 (IEEE 802.15.4_Ant. 31)+R6 (GPS)+PoE(Powered from Eth0+Eth1 port/Test Eth1 port)
12	EUT_R1 (6GHz UNII 7_set 2)+R2 (5GHz UNII 1, 3_set 4)+R3 (6GHz UNII 5_set 6)+Scanning R4 (6GHz UNII 5, 7_set 8)+R5 (IEEE 802.15.4_Ant. 31)+R6 (GPS)+PoE(Powered from Eth0+Eth1 port/Test Eth1 port)
Mode 7 has been evaluated to be the worst case between Mode 1~12, thus measurement for Mode 13 will follow this same test mode.	
13	EUT_R1 (2.4GHz_set 3)+R2 (5GHz UNII 1, 3_set 5)+R3 (6GHz UNII 5, 7_set 7)+Scanning R4 (6GHz UNII 5, 7_set 8)+R5 (IEEE 802.15.4_Ant. 31)+R6 (GPS)+Eth1 (PSE out)+PoE(Powered from Eth0 port)
For operating mode 13 is the worst case and it was record in this test report.	



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

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	CTX
After evaluating, the worst case was found at Y axis, so it was selected to perform test and its test result was written in the report.	
1	EUT in Y axis_R1 (2.4GHz_set 3)+PoE(Powered from Eth0+Eth1 port)
2	EUT in Y axis_R1 (5GHz UNII 1_set 2)+PoE(Powered from Eth0+Eth1 port)
3	EUT in Y axis_R1 (5GHz UNII 1_set 1)+PoE(Powered from Eth0+Eth1 port)
4	EUT in Y axis_R1 (6GHz UNII 7_set 2)+PoE(Powered from Eth0+Eth1 port)
5	EUT in Y axis_R1 (6GHz UNII 7_set 1)+PoE(Powered from Eth0+Eth1 port)
6	EUT in Y axis_R2 (5GHz UNII 1, 3_set 4)+PoE(Powered from Eth0+Eth1 port)
7	EUT in Y axis_R2 (5GHz UNII 1, 3_set 5)+PoE(Powered from Eth0+Eth1 port)
8	EUT in Y axis_R3 (6GHz 5, 7_set 6)+PoE(Powered from Eth0+Eth1 port)
9	EUT in Y axis_R3 (6GHz 5, 7_set 7)+PoE(Powered from Eth0+Eth1 port)
10	EUT in Y axis_Scanning R4 (2.4GHz_set 8)+PoE(Powered from Eth0+Eth1 port)
11	EUT in Y axis_Scanning R4 (5GHz UNII 1, 3_set 8)+PoE(Powered from Eth0+Eth1 port)
12	EUT in Y axis_Scanning R4 (6GHz UNII 5, 7_set 8)+PoE(Powered from Eth0+Eth1 port)
13	EUT in Y axis_R5 (BT_Ant. 33)+PoE(Powered from Eth0+Eth1 port)
14	EUT in Y axis_R5 (IEEE 802.15.4_Ant. 33)+PoE(Powered from Eth0+Eth1 port)
For operating mode 1 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
After evaluating, the worst case was found at Y axis, so it was selected to perform test and its test result was written in the report.	
1	EUT in Y axis



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	R1 (2.4GHz_set 3)+R2 (5GHz UNII 1, 3_set 5)+R3 (6GHz UNII 5, 7_set 7)+Scanning R4 (2.4GHz_set 8)+R5 (Bluetooth)
2	R1 (2.4GHz_set 3)+R2 (5GHz UNII 1, 3_set 5)+R3 (6GHz UNII 5, 7_set 7)+Scanning R4 (2.4GHz_set 8)+R5 (IEEE 802.15.4)
3	R1 (2.4GHz_set 3)+R2 (5GHz UNII 1, 3_set 5)+R3 (6GHz UNII 5, 7_set 7)+Scanning R4 (5GHz_set 8)+R5 (Bluetooth)
4	R1 (2.4GHz_set 3)+R2 (5GHz UNII 1, 3_set 5)+R3 (6GHz UNII 5, 7_set 7)+Scanning R4 (5GHz_set 8)+R5 (IEEE 802.15.4)
5	R1 (2.4GHz_set 3)+R2 (5GHz UNII 1, 3_set 5)+R3 (6GHz UNII 5, 7_set 7)+Scanning R4 (6GHz_set 8)+R5 (Bluetooth)
6	R1 (2.4GHz_set 3)+R2 (5GHz UNII 1, 3_set 5)+R3 (6GHz UNII 5, 7_set 7)+Scanning R4 (6GHz_set 8)+R5 (IEEE 802.15.4)
7	R1 (2.4GHz_set 3)+R2 (5GHz UNII 1, 3_set 4)+R3 (6GHz UNII 5, 7_set 6)+Scanning R4 (2.4GHz_set 8)+R5 (Bluetooth)
8	R1 (2.4GHz_set 3)+R2 (5GHz UNII 1, 3_set 4)+R3 (6GHz UNII 5, 7_set 6)+Scanning R4 (2.4GHz_set 8)+R5 (IEEE 802.15.4)
9	R1 (2.4GHz_set 3)+R2 (5GHz UNII 1, 3_set 4)+R3 (6GHz UNII 5, 7_set 6)+Scanning R4 (5GHz_set 8)+R5 (Bluetooth)
10	R1 (2.4GHz_set 3)+R2 (5GHz UNII 1, 3_set 4)+R3 (6GHz UNII 5, 7_set 6)+Scanning R4 (5GHz_set 8)+R5 (IEEE 802.15.4)
11	R1 (2.4GHz_set 3)+R2 (5GHz UNII 1, 3_set 4)+R3 (6GHz UNII 5, 7_set 6)+Scanning R4 (6GHz_set 8)+R5 (Bluetooth)
12	R1 (2.4GHz_set 3)+R2 (5GHz UNII 1, 3_set 4)+R3 (6GHz UNII 5, 7_set 6)+Scanning R4 (6GHz_set 8)+R5 (IEEE 802.15.4)
13	R1 (5GHz UNII 1_set 1)+R2 (5GHz UNII 3_set 5)+R3 (6GHz UNII 5, 7_set 7)+Scanning R4 (2.4GHz_set 8)+R5 (Bluetooth)
14	R1 (5GHz UNII 1_set 1)+R2 (5GHz UNII 3_set 5)+R3 (6GHz UNII 5, 7_set 7)+Scanning R4 (2.4GHz_set 8)+R5 (IEEE 802.15.4)
15	R1 (5GHz UNII 1_set 1)+R2 (5GHz UNII 3_set 5)+R3 (6GHz UNII 5, 7_set 7)+Scanning R4 (5GHz_set 8)+R5 (Bluetooth)
16	R1 (5GHz UNII 1_set 1)+R2 (5GHz UNII 3_set 5)+R3 (6GHz UNII 5, 7_set 7)+Scanning R4 (5GHz_set 8)+R5 (IEEE 802.15.4)
17	R1 (5GHz UNII 1_set 1)+R2 (5GHz UNII 3_set 5)+R3 (6GHz UNII 5, 7_set 7)+Scanning R4 (6GHz_set 8)+R5 (Bluetooth)
18	R1 (5GHz UNII 1_set 1)+R2 (5GHz UNII 3_set 5)+R3 (6GHz UNII 5, 7_set 7)+Scanning R4 (6GHz_set 8)+R5 (IEEE 802.15.4)
19	R1 (5GHz UNII 1_set 2)+R2 (5GHz UNII 3_set 4)+R3 (6GHz UNII 5, 7_set 6)+Scanning R4 (2.4GHz_set 8)+R5 (IEEE 802.15.4)



20	R1 (5GHz UNII 1_set 2)+R2 (5GHz UNII 3_set 4)+R3 (6GHz UNII 5, 7_set 6)+ Scanning R4 (2.4GHz_set 8)+R5 (Bluetooth)
21	R1 (5GHz UNII 1_set 2)+R2 (5GHz UNII 3_set 4)+R3 (6GHz UNII 5, 7_set 6)+ Scanning R4 (5GHz_set 8)+R5 (IEEE 802.15.4)
22	R1 (5GHz UNII 1_set 2)+R2 (5GHz UNII 3_set 4)+R3 (6GHz UNII 5, 7_set 6)+ Scanning R4 (5GHz_set 8)+R5 (Bluetooth)
23	R1 (5GHz UNII 1_set 2)+R2 (5GHz UNII 3_set 4)+R3 (6GHz UNII 5, 7_set 6)+ Scanning R4 (6GHz_set 8)+R5 (IEEE 802.15.4)
24	R1 (5GHz UNII 1_set 2)+R2 (5GHz UNII 3_set 4)+R3 (6GHz UNII 5, 7_set 6)+ Scanning R4 (6GHz_set 8)+R5 (Bluetooth)
25	R1 (6GHz UNII 7_set 1)+R2 (5GHz UNII 1, 3_set 5)+R3 (6GHz UNII 5_set 7)+Scanning R4 (2.4GHz_set 8)+R5 (IEEE 802.15.4)
26	R1 (6GHz UNII 7_set 1)+R2 (5GHz UNII 1, 3_set 5)+R3 (6GHz UNII 5_set 7)+Scanning R4 (2.4GHz_set 8)+R5 (Bluetooth)
27	R1 (6GHz UNII 7_set 1)+R2 (5GHz UNII 1, 3_set 5)+R3 (6GHz UNII 5_set 7)+Scanning R4 (5GHz_set 8)+R5 (IEEE 802.15.4)
28	R1 (6GHz UNII 7_set 1)+R2 (5GHz UNII 1, 3_set 5)+R3 (6GHz UNII 5_set 7)+Scanning R4 (5GHz_set 8)+R5 (Bluetooth)
29	R1 (6GHz UNII 7_set 1)+R2 (5GHz UNII 1, 3_set 5)+R3 (6GHz UNII 5_set 7)+Scanning R4 (6GHz_set 8)+R5 (IEEE 802.15.4)
30	R1 (6GHz UNII 7_set 1)+R2 (5GHz UNII 1, 3_set 5)+R3 (6GHz UNII 5_set 7)+Scanning R4 (6GHz_set 8)+R5 (Bluetooth)
31	R1 (6GHz UNII 7_set 2)+R2 (5GHz UNII 1, 3_set 4)+R3 (6GHz UNII 5_set 6)+Scanning R4 (2.4GHz_set 8)+R5 (IEEE 802.15.4)
32	R1 (6GHz UNII 7_set 2)+R2 (5GHz UNII 1, 3_set 4)+R3 (6GHz UNII 5_set 6)+Scanning R4 (2.4GHz_set 8)+R5 (Bluetooth)
33	R1 (6GHz UNII 7_set 2)+R2 (5GHz UNII 1, 3_set 4)+R3 (6GHz UNII 5_set 6)+Scanning R4 (5GHz_set 8)+R5 (IEEE 802.15.4)
34	R1 (6GHz UNII 7_set 2)+R2 (5GHz UNII 1, 3_set 4)+R3 (6GHz UNII 5_set 6)+Scanning R4 (5GHz_set 8)+R5 (Bluetooth)
35	R1 (6GHz UNII 7_set 2)+R2 (5GHz UNII 1, 3_set 4)+R3 (6GHz UNII 5_set 6)+Scanning R4 (6GHz_set 8)+R5 (IEEE 802.15.4)
36	R1 (6GHz UNII 7_set 2)+R2 (5GHz UNII 1, 3_set 4)+R3 (6GHz UNII 5_set 6)+Scanning R4 (6GHz_set 8)+R5 (Bluetooth)
Refer to Sporton Test Report No.: FA561916AA for Co-location RF Exposure Evaluation.	

Note1: R means Radio ; BT means Bluetooth.

Note2: The PoE is for measurement only, would not be marketed.

The information as below:

Power	Brand	Model
PoE	Microsemi	PD-9501-10GC/AC



2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link:

During the test, the EUT operation to normal function.

2.4 Accessories

Accessories
Bracket*1
Sealing Collar*2

2.5 Support Equipment

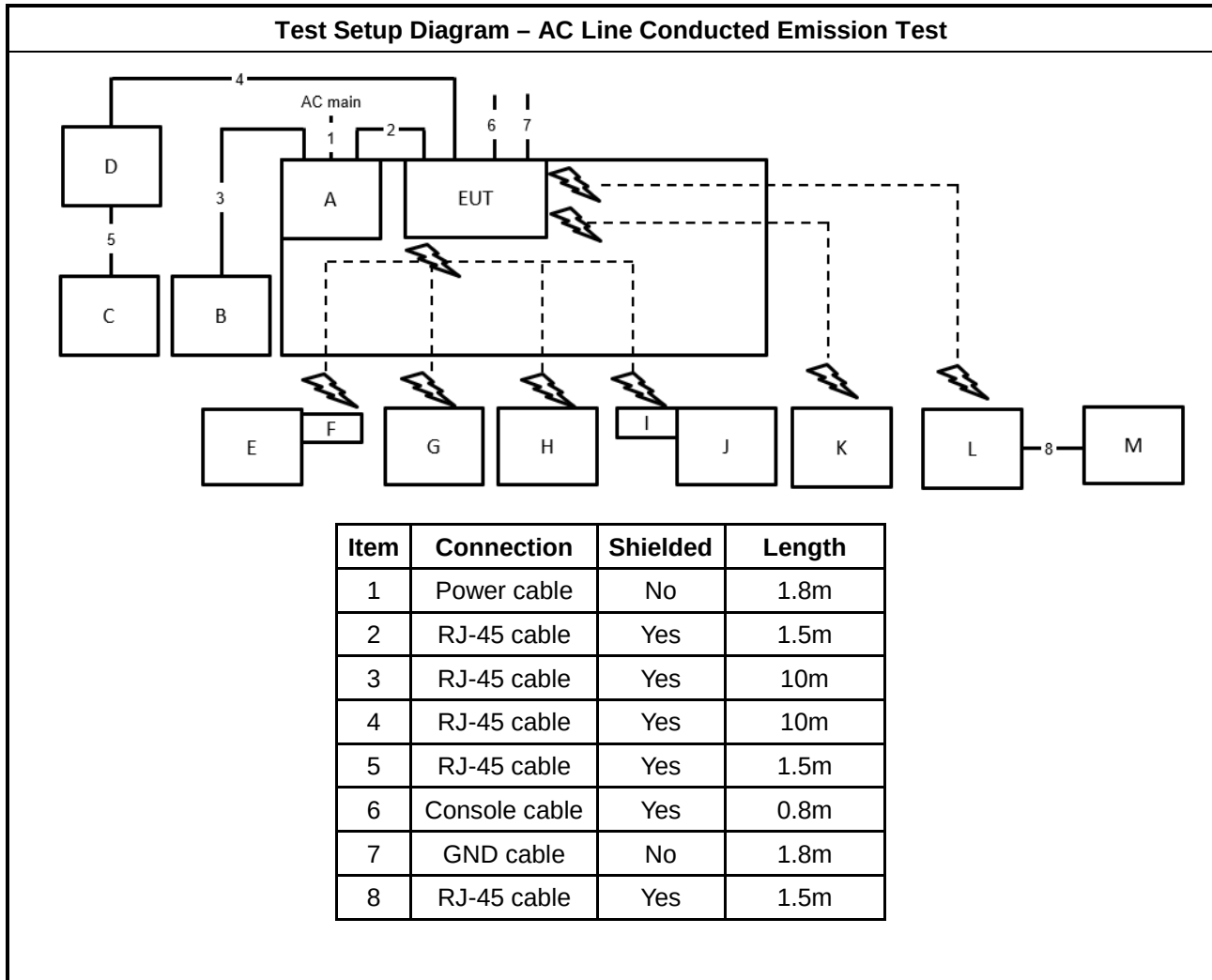
For AC Conduction:

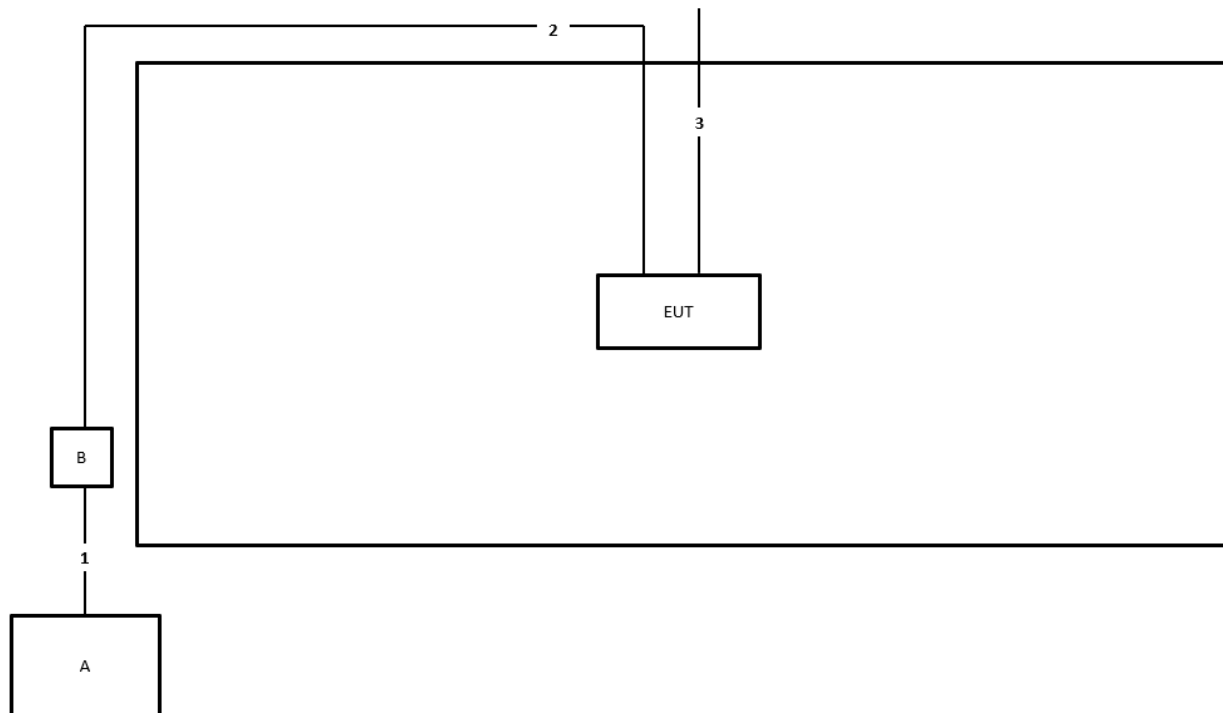
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	PoE	Microsemi	PD-9501-10GC/AC	N/A
B	Eth0 PC	ASUS	S300TA	TX2-RTL8821CE
C	PD Device PC	ASUS	S300TA	TX2-RTL8821CE
D	PD Device	WNC	RLLL-M1	N/A
E	6G Scan NB	DELL	E7240	N/A
F	6G module	INTEL	BE200	N/A
G	2.4G NB	Lenovo	X260	N/A
H	5G Full NB	Lenovo	X260	N/A
I	6G module	INTEL	BE200	N/A
J	6G Full NB	DELL	E7240	N/A
K	GPS Simulator	WELNAVIGATE	GS-100	N/A
L	Device	Extreme Networks	AP5060U	N/A
M	Device NB	Lenovo	X260	N/A

For Radiated and RF Conducted:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	PoE	Microsemi	PD-9501-10GC/AC	N/A

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test


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



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.		

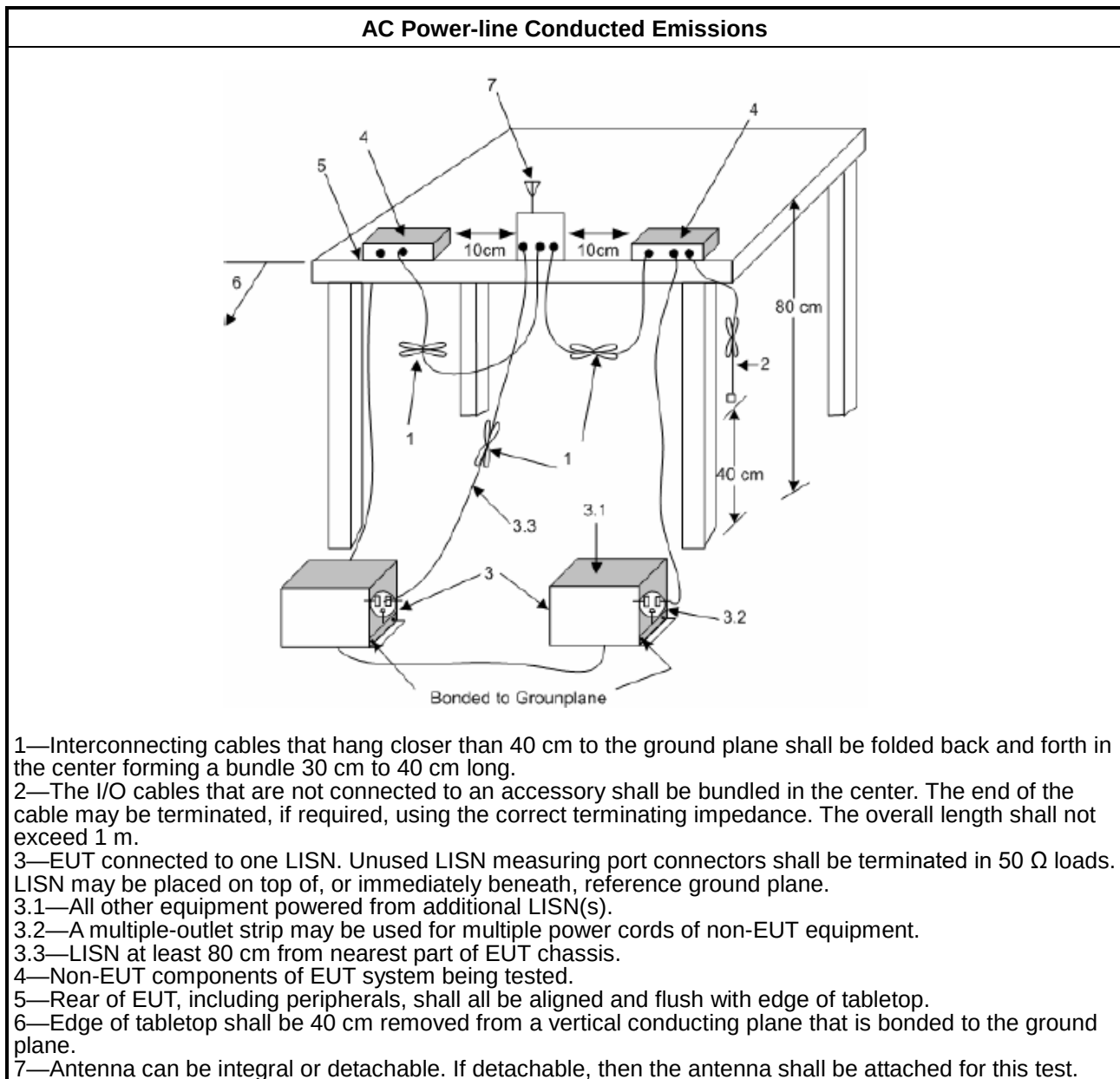
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method
☒ Refer as ANSI C63.10-2020, clause 6.2 for AC power-line conducted emissions.

3.1.4 Test Setup



3.1.5 Measurement Results Calculation

The measured Level is calculated using:

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

3.1.6 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
Systems using digital modulation techniques:
6 dB bandwidth $\geq$ 500 kHz.

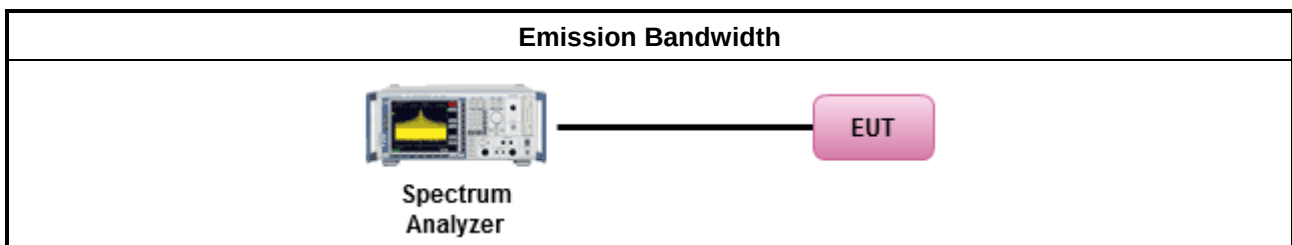
3.2.2 Measuring Instruments

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

3.2.3 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.

3.2.4 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.	

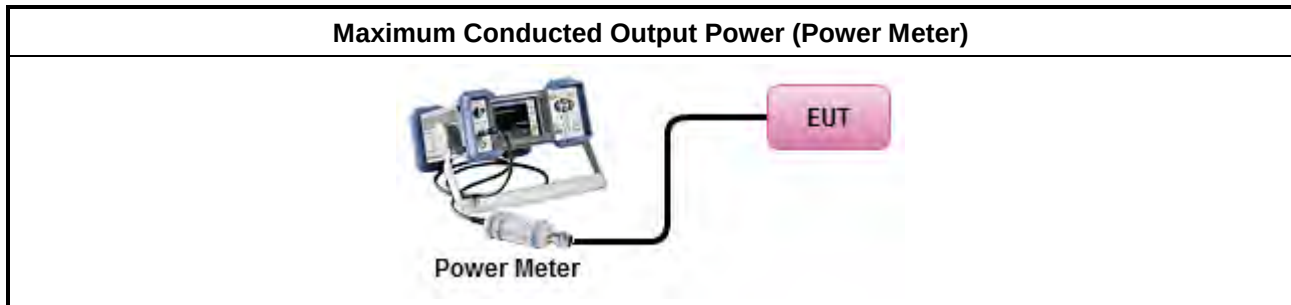
3.3.2 Measuring Instruments

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

**3.3.3 Test Procedures**

Test Method	
▪ Maximum Peak Conducted Output Power	
☐	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]) $EIRP_{total} = P_{total} + DG$	

3.3.4 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) ≤ 8 dBm/3kHz

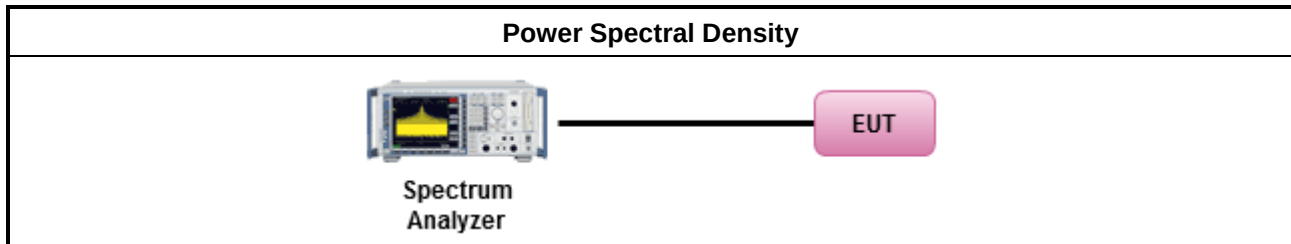
3.4.2 Measuring Instruments

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).	
☒	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.

3.4.4 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
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.	

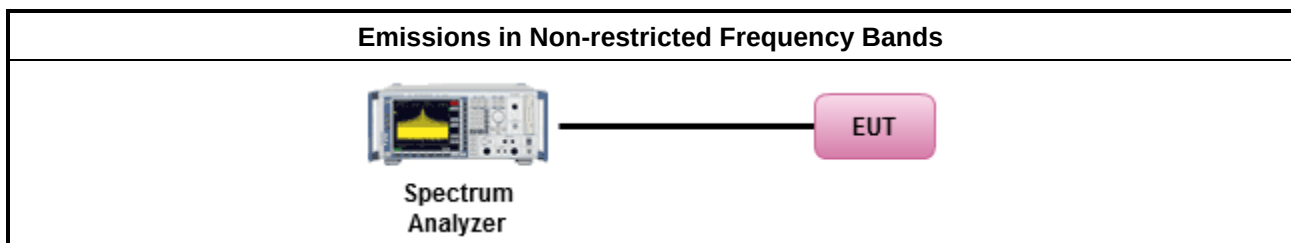
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

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.

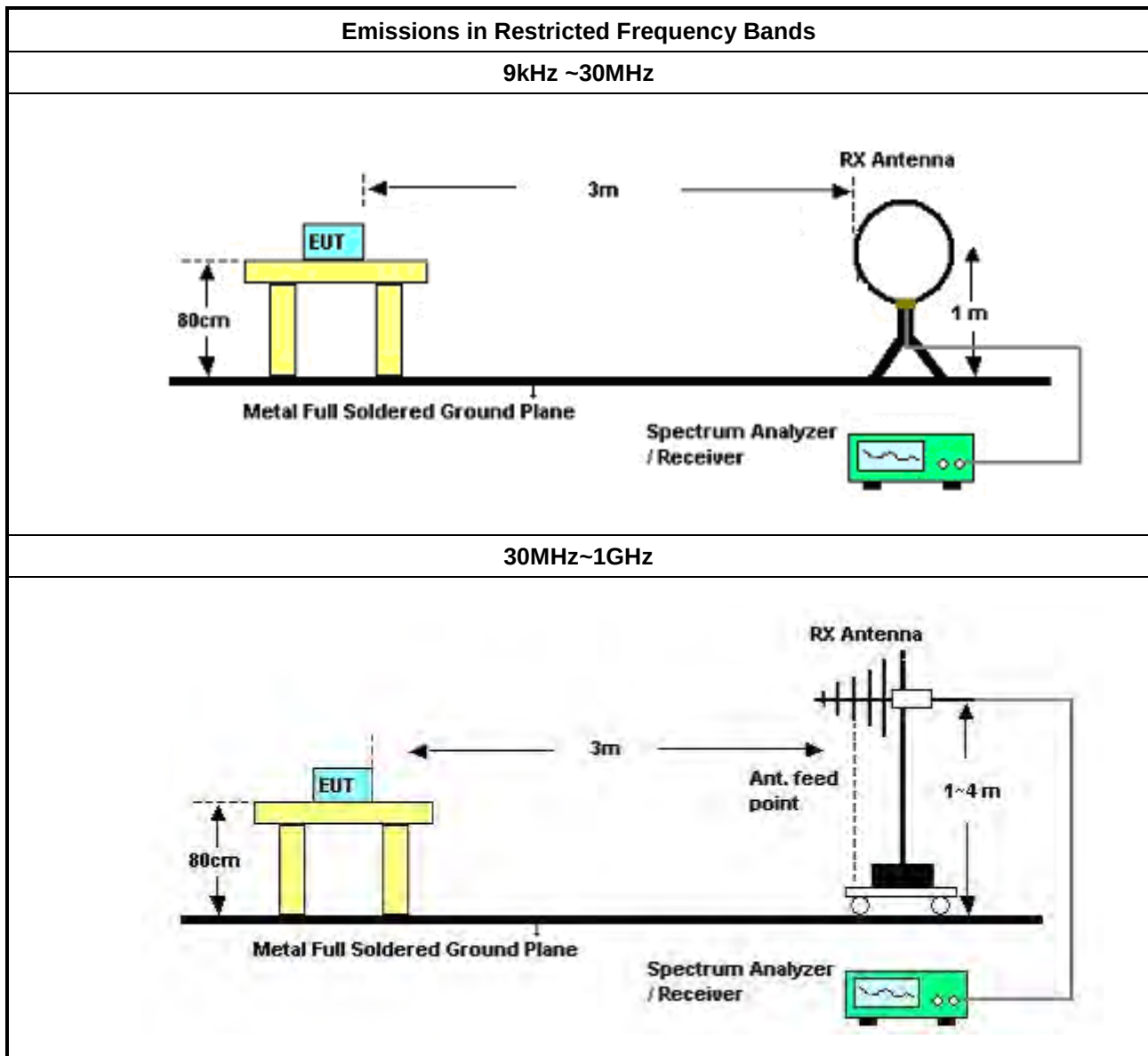
3.6.2 Measuring Instruments

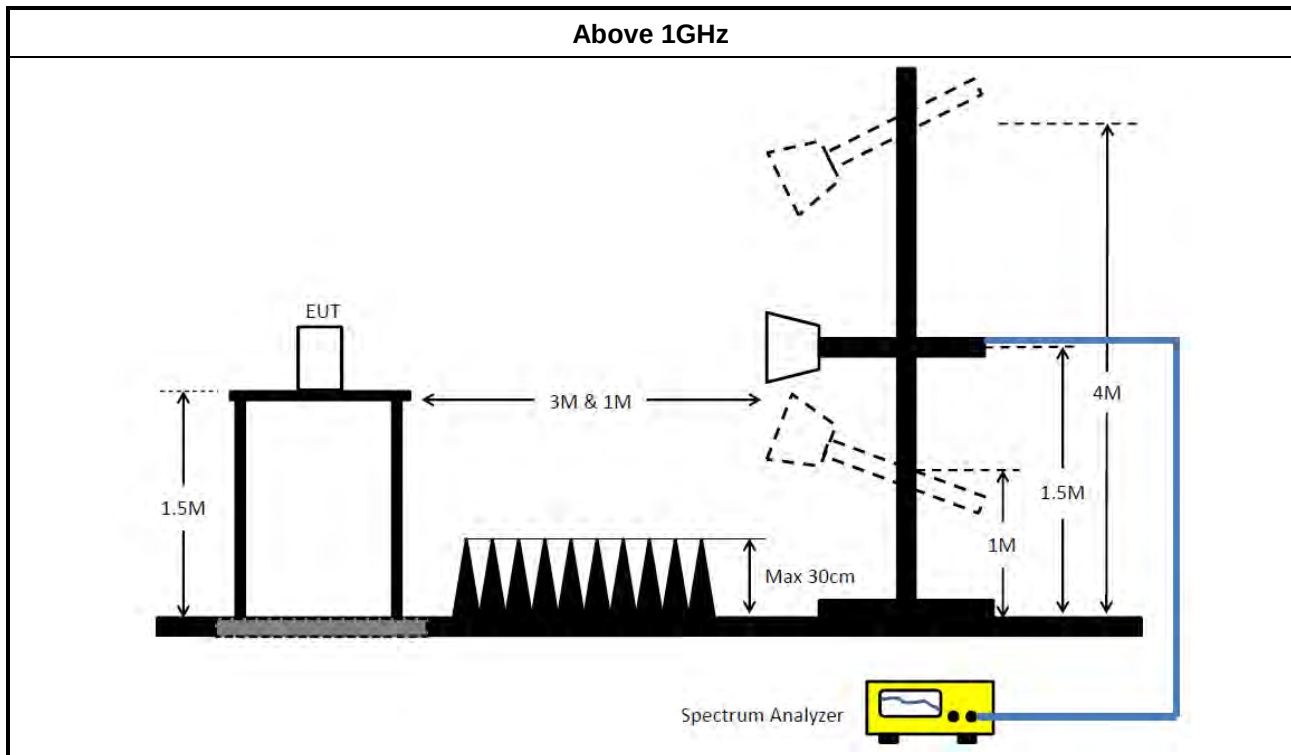
Refer a test equipment and calibration data table in this test report.

**3.6.3 Test Procedures**

Test Method	
▪ The average emission levels shall be measured in [duty cycle ≥ 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.

3.6.4 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
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Mar. 06, 2025	Mar. 05, 2026	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-1 6-2	04083	150kHz ~ 100MHz	Feb. 18, 2025	Feb. 17, 2026	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	May 10, 2025	May 09, 2026	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Sep. 14, 2025	Sep. 13, 2026	Conduction (CO01-CB)
COND Cable	Woken	Cable	CO01	9kHz ~ 30MHz	Sep. 14, 2025	Sep. 13, 2026	Conduction (CO01-CB)
Test Software	SPORTON	SENSE-EMI	V5.11	150kHz-30MHz	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6121	65417	9kHz ~ 30MHz	Oct. 20, 2025	Oct. 19, 2026	Radiation (03CH05-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz ~ 1 GHz	Jul. 31, 2025	Jul. 30, 2026	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 22, 2025	Mar. 21, 2026	Radiation (03CH05-CB)
Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	May 01, 2025	Apr. 30, 2026	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Apr. 21, 2025	Apr. 20, 2026	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESR7	102171	9kHz ~ 7GHz	Aug. 04, 2025	Aug. 03, 2026	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Sep. 25, 2025	Sep. 24, 2026	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE-EMI	V5.11.8	30MHz-40GHz	N.C.R.	N.C.R.	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH06-CB	1GHz ~18GHz 3m	Oct. 08, 2024	Oct. 07, 2025	Radiation (03CH06-CB)
Horn Antenna	COM-POWER	AH-118	071187	1GHz ~ 18GHz	Sep. 23, 2024	Sep. 22, 2025	Radiation (03CH06-CB)
Pre-Amplifier	EMCI	EMC12630SE	980383	1GHz ~ 18GHz	Jul. 31, 2024	Jul. 30, 2025	Radiation (03CH06-CB)
Pre-Amplifier	EMCI	EMC12630SE	980383	1GHz ~ 18GHz	Jul. 30, 2025	Jul. 29, 2026	Radiation (03CH06-CB)
Signal Analyzer	R&S	FSV40	101903	9kHz ~ 40GHz	Jun. 10, 2025	Jun. 09, 2026	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-05+68	1GHz~18GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH06-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Test Software	SPORTON	SENSE-15247_ DTS	V5.11.27	2.4GHz- 2.4835GHz	N.C.R.	N.C.R.	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSV40	101028	9kHz~40GHz	Jan. 02, 2025	Jan. 01, 2026	Conducted (TH03-CB)
Power Sensor	Anritsu	MA2411B	1726195	300MHz~40GHz	Sep. 06, 2024	Sep. 05, 2025	Conducted (TH03-CB)
Power Meter	Anritsu	ML2495A	1035008	300MHz~40GHz	Sep. 06, 2024	Sep. 05, 2025	Conducted (TH03-CB)
RF Cable	Woken	RG402	High Cable-11	30MHz ~18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH03-CB)
RF Cable	Woken	RG402	High Cable-12	30MHz ~18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH03-CB)
RF Cable	Woken	RG402	High Cable-13	30MHz ~18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-14	1 GHz ~18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-15	1 GHz ~18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH03-CB)
Switch	SPTCB	SP-SWI	SWI-03	1~18GHz	Oct. 02, 2024	Oct. 01, 2025	Conducted (TH03-CB)
Test Software	SPORTON	SENSE-15247_ DTS	V5.11.27	2.4GHz- 2.4835GHz	N.C.R.	N.C.R.	Conducted (TH03-CB)

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

NCR means Non-Calibration required.



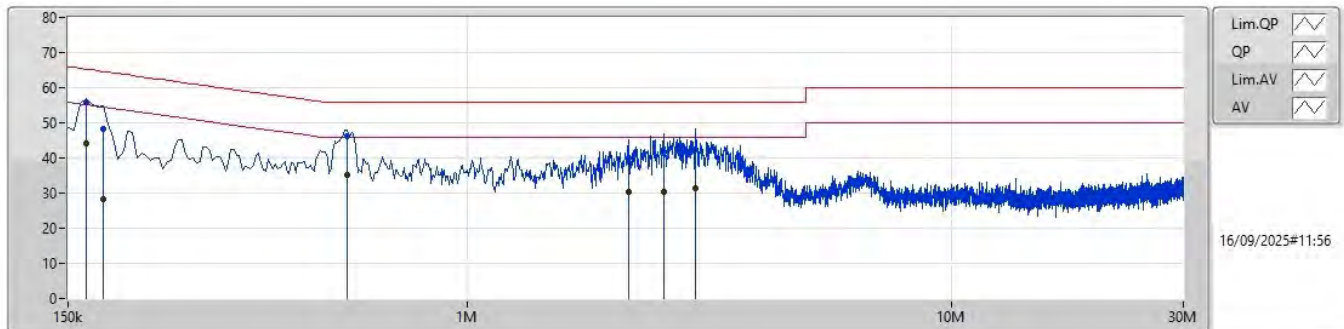
Conducted Emissions at Powerline

Appendix A

Summary

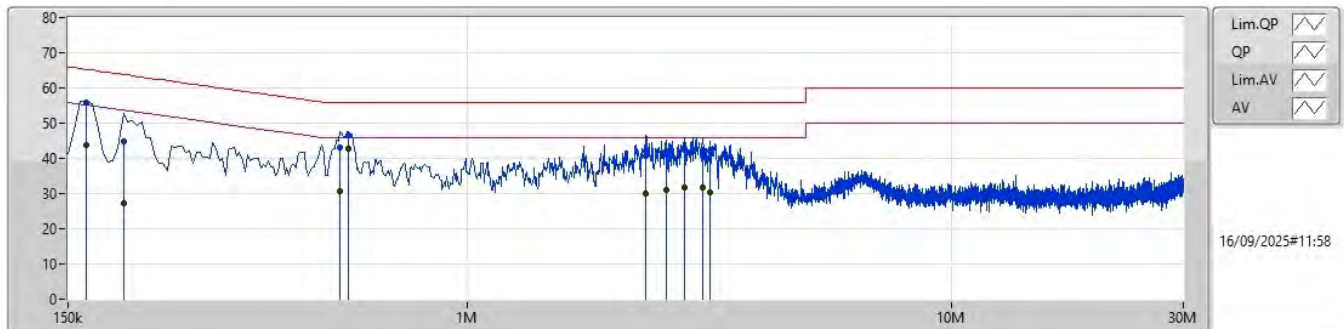
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 13	Pass	AV	568.5k	42.90	46.00	-3.10	Neutral

Mode 13



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)								
QP	163.5k	56.00	65.27	-9.27	10.05	Line	"Worst"	45.95	0.05	0.08	9.92								
AV	163.5k	43.97	55.27	-11.30	10.05	Line	-	33.92	0.05	0.08	9.92								
QP	177k	48.34	64.62	-16.28	10.06	Line	-	38.28	0.06	0.07	9.93								
AV	177k	28.41	54.62	-26.21	10.06	Line	-	18.35	0.06	0.07	9.93								
QP	564k	46.27	56.00	-9.73	10.26	Line	-	36.01	0.06	0.10	10.10								
AV	564k	35.33	46.00	-10.67	10.26	Line	-	25.07	0.06	0.10	10.10								
QP	2.148M	39.87	56.00	-16.13	10.17	Line	-	29.70	0.09	0.14	9.94								
AV	2.148M	30.50	46.00	-15.50	10.17	Line	-	20.33	0.09	0.14	9.94								
QP	2.544M	41.59	56.00	-14.41	10.17	Line	-	31.42	0.10	0.14	9.93								
AV	2.544M	30.31	46.00	-15.69	10.17	Line	-	20.14	0.10	0.14	9.93								
QP	2.958M	42.34	56.00	-13.66	10.18	Line	-	32.16	0.11	0.15	9.92								
AV	2.958M	31.41	46.00	-14.59	10.18	Line	-	21.23	0.11	0.15	9.92								

Mode 13



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	163.5k	55.78	65.27	-9.49	10.08	Neutral	-	45.70	0.08	0.08	9.92						
AV	163.5k	43.76	55.27	-11.51	10.08	Neutral	-	33.68	0.08	0.08	9.92						
QP	195k	44.95	63.82	-18.87	10.10	Neutral	-	34.85	0.08	0.07	9.95						
AV	195k	27.16	53.82	-26.66	10.10	Neutral	-	17.06	0.08	0.07	9.95						
QP	546k	43.25	56.00	-12.75	10.27	Neutral	-	32.98	0.08	0.10	10.09						
AV	546k	30.83	46.00	-15.17	10.27	Neutral	-	20.56	0.08	0.10	10.09						
QP	568.5k	46.48	56.00	-9.52	10.28	Neutral	-	36.20	0.08	0.10	10.10						
AV	568.5k	42.90	46.00	-3.10	10.28	Neutral	"Worst"	32.62	0.08	0.10	10.10						
QP	2.337M	40.80	56.00	-15.20	10.20	Neutral	-	30.60	0.12	0.14	9.94						
AV	2.337M	29.99	46.00	-16.01	10.20	Neutral	-	19.79	0.12	0.14	9.94						
QP	2.576M	42.01	56.00	-13.99	10.20	Neutral	-	31.81	0.13	0.14	9.93						
AV	2.576M	31.17	46.00	-14.83	10.20	Neutral	-	20.97	0.13	0.14	9.93						
QP	2.81M	42.45	56.00	-13.55	10.20	Neutral	-	32.25	0.13	0.14	9.93						
AV	2.81M	31.61	46.00	-14.39	10.20	Neutral	-	21.41	0.13	0.14	9.93						
QP	3.053M	42.29	56.00	-13.71	10.21	Neutral	-	32.08	0.14	0.15	9.92						
AV	3.053M	31.62	46.00	-14.38	10.21	Neutral	-	21.41	0.14	0.15	9.92						
QP	3.174M	41.91	56.00	-14.09	10.21	Neutral	-	31.70	0.14	0.15	9.92						
AV	3.174M	30.36	46.00	-15.64	10.21	Neutral	-	20.15	0.14	0.15	9.92						

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.15.4_1TX	1.62M	2.345M	2M35D1D	1.579M	2.342M

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

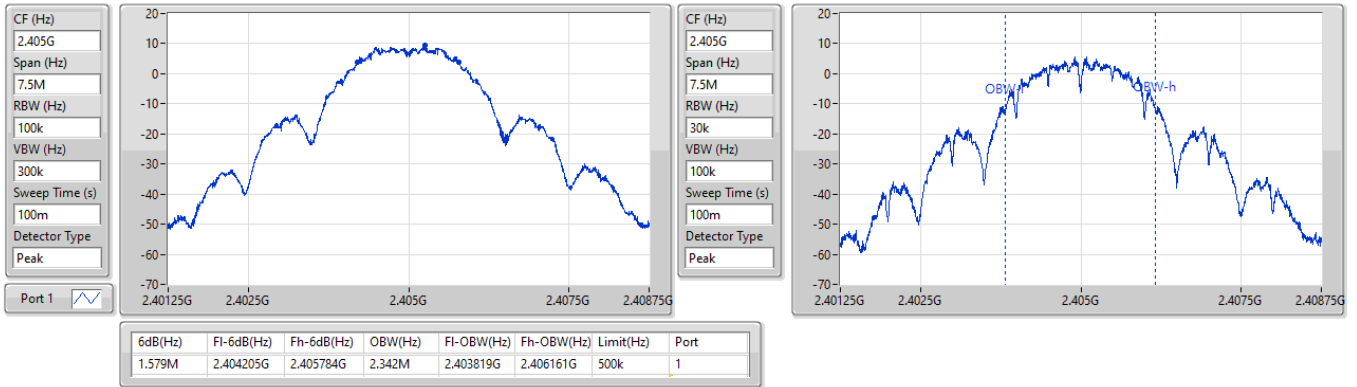
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.15.4_1TX	-	-	-	-
2405MHz	Pass	500k	1.579M	2.342M
2440MHz	Pass	500k	1.579M	2.345M
2480MHz	Pass	500k	1.62M	2.342M

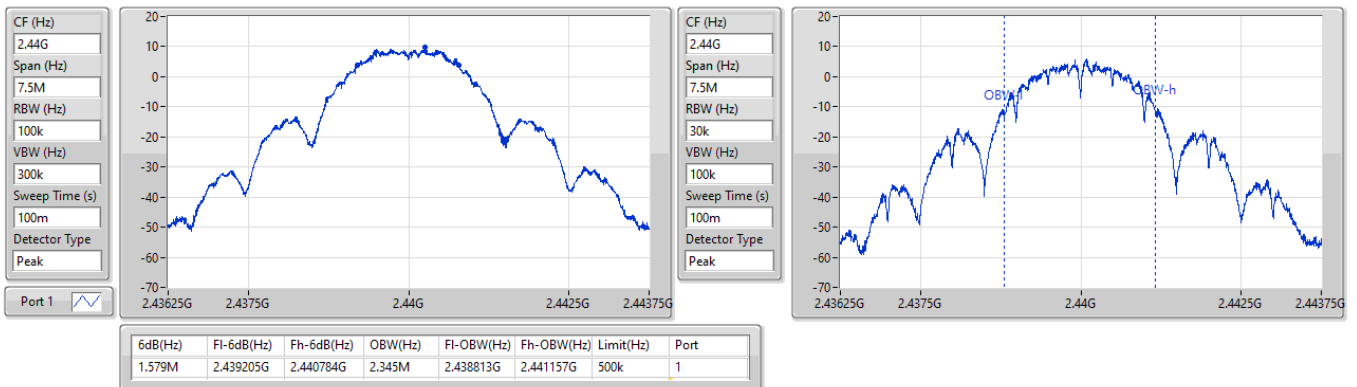
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_802.15.4_1TX
EBW
2405MHz

15/08/2025


2.4-2.4835GHz_802.15.4_1TX
EBW
2440MHz

15/08/2025

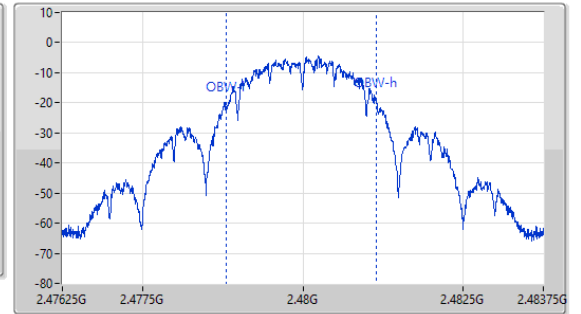
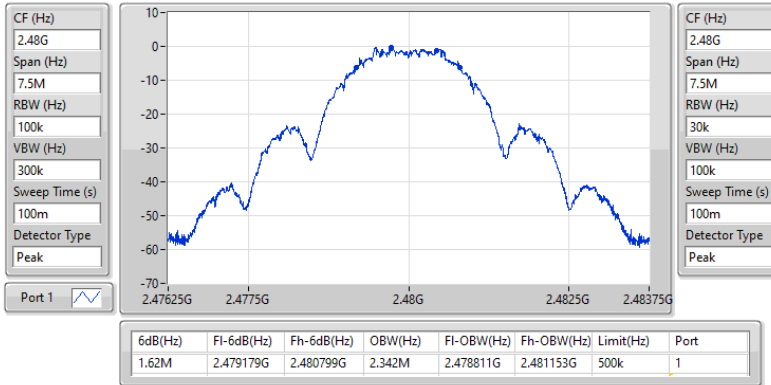


2.4-2.4835GHz_802.15.4_1TX

EBW

2480MHz

15/08/2025





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.15.4_1TX	12.99	0.01991



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.15.4_1TX	-	-	-	-	-
2405MHz	Pass	5.30	12.74	12.74	30.00
2440MHz	Pass	5.30	12.93	12.93	30.00
2475MHz	Pass	5.30	12.99	12.99	30.00
2480MHz	Pass	5.30	3.47	3.47	30.00

DG = Directional Gain; Port X = Port X output power;
Inf = There's no restriction for the limit.

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.15.4_1TX	-4.24

RBW = 3kHz;

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.15.4_1TX	-	-	-	-	-
2405MHz	Pass	5.30	-4.99	-4.99	8.00
2440MHz	Pass	5.30	-4.24	-4.24	8.00
2480MHz	Pass	5.30	-12.70	-12.70	8.00

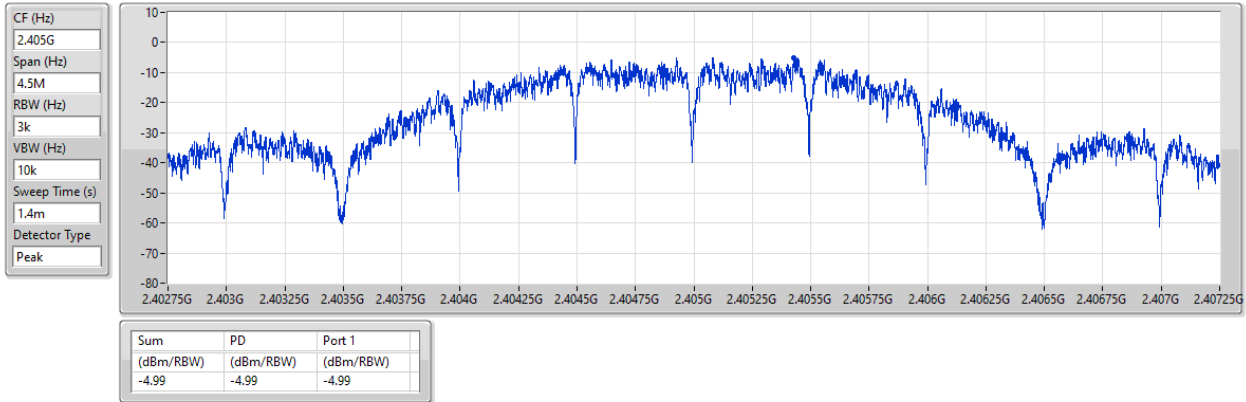
DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;
Inf = There's no restriction for the limit.

2.4-2.4835GHz_802.15.4_1TX

PSD

2405MHz

15/08/2025

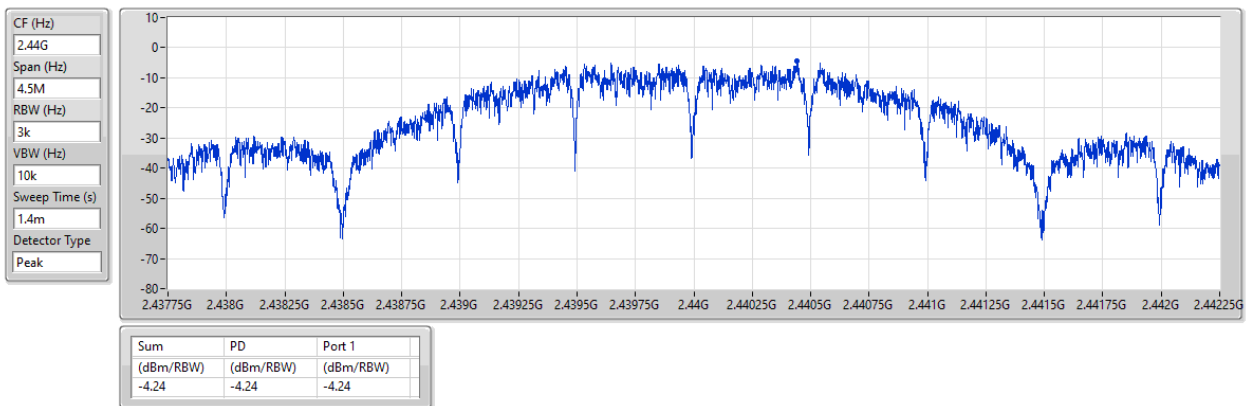


2.4-2.4835GHz_802.15.4_1TX

PSD

2440MHz

15/08/2025

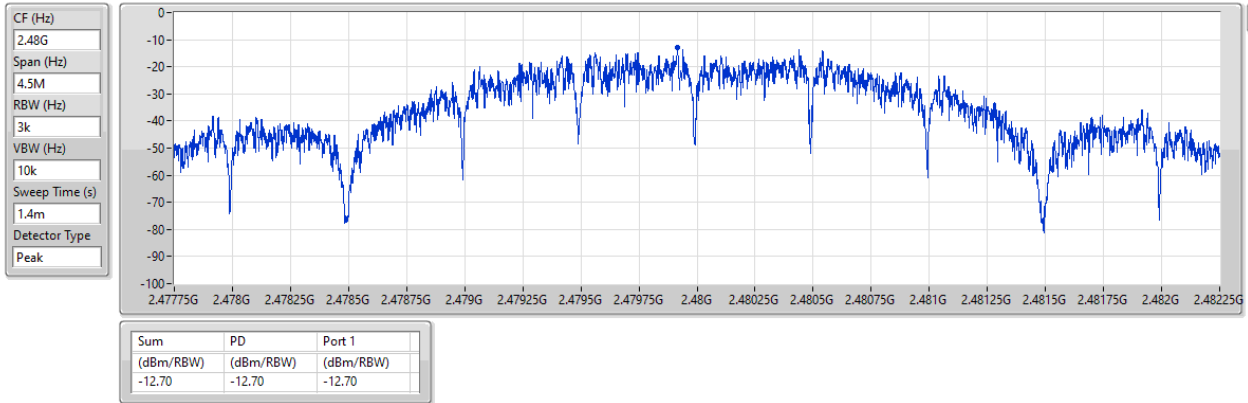


2.4-2.4835GHz_802.15.4_1TX

PSD

2480MHz

15/08/2025





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)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-
802.15.4_1TX	Pass	2.43941G	8.92	-21.08	2.15287G	-54.14	2.39998G	-50.64	2.4G	-53.97	21.42927G	-45.34	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)	Port
802.15.4_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2405MHz	Pass	2.43941G	8.92	-21.08	2.15287G	-54.14	2.39998G	-50.64	2.4G	-53.97	21.42927G	-45.34	1
2440MHz	Pass	2.43941G	8.92	-21.08	2.04058G	-54.67	2.39762G	-52.35	2.4G	-55.95	21.47711G	-45.45	1
2480MHz	Pass	2.43941G	8.92	-21.08	2.17769G	-54.57	2.39678G	-51.66	2.4G	-57.05	21.45178G	-45.43	1

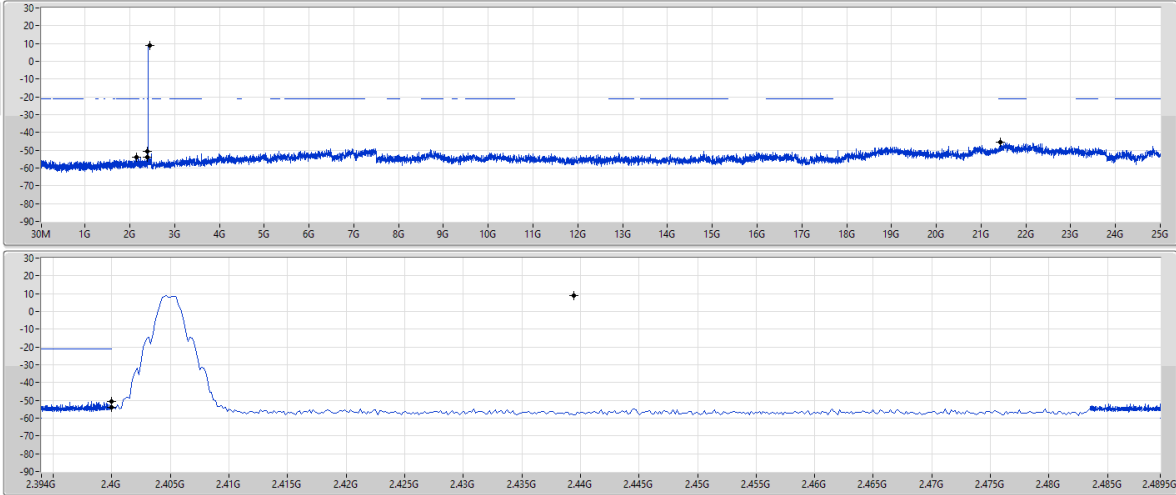
2.4-2.4835GHz_802.15.4_1TX

CSEndB

2405MHz

15/08/2025

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



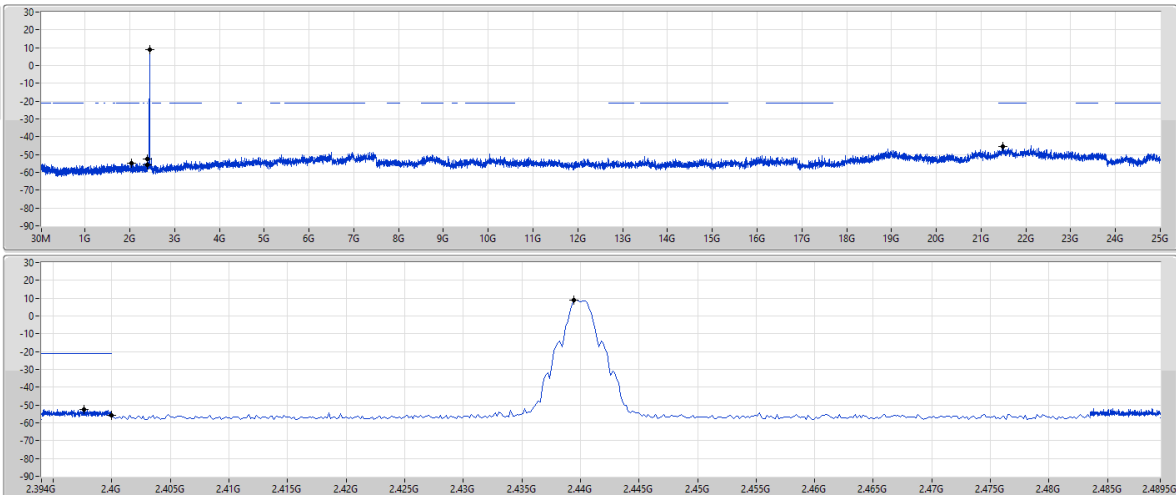
2.4-2.4835GHz_802.15.4_1TX

CSEndB

2440MHz

15/08/2025

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



2.4-2.4835GHz_802.15.4_1TX

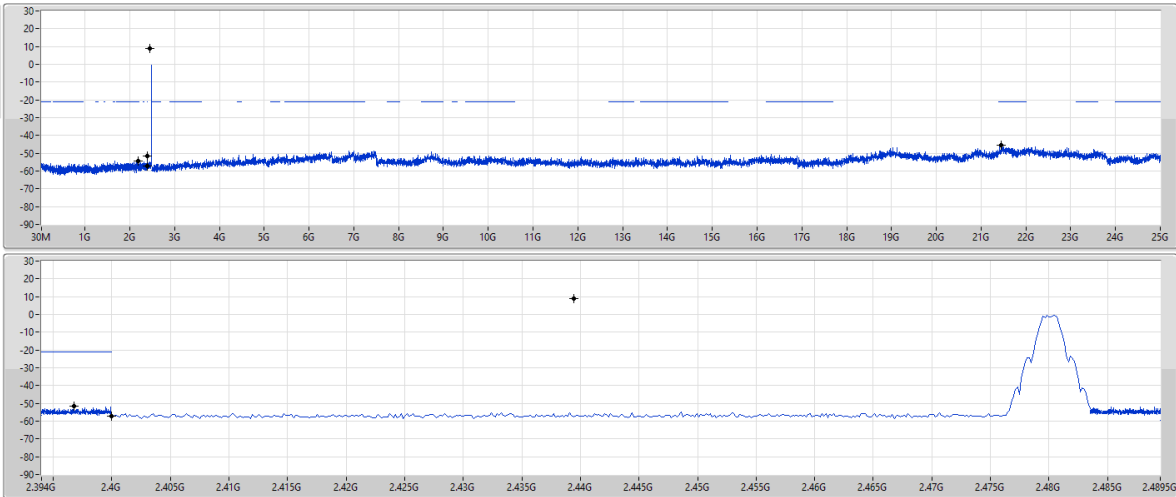
CSEndB

2480MHz

15/08/2025

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)	Port
2.43941G	8.92	-21.08	2.17769G	-54.57	2.39678G	-51.66	2.4G	-57.05	2.45178G	-45.43	1



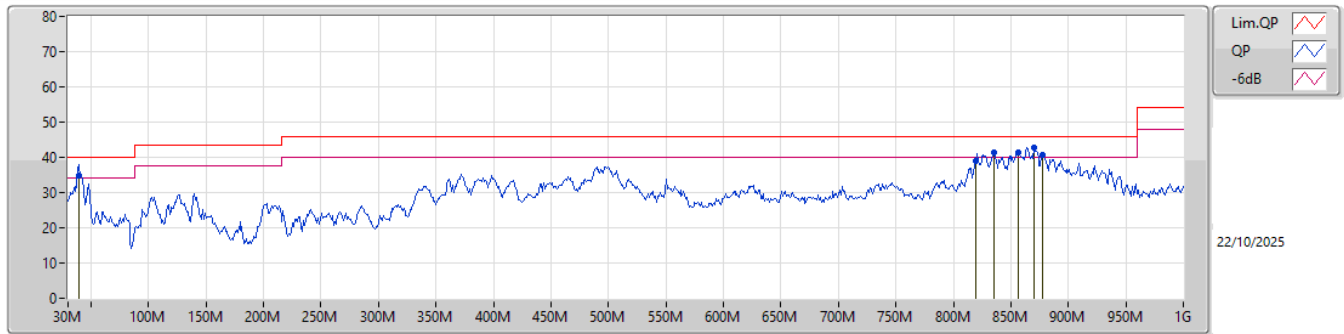
Radiated Emissions below 1GHz

Appendix F.1

Summary

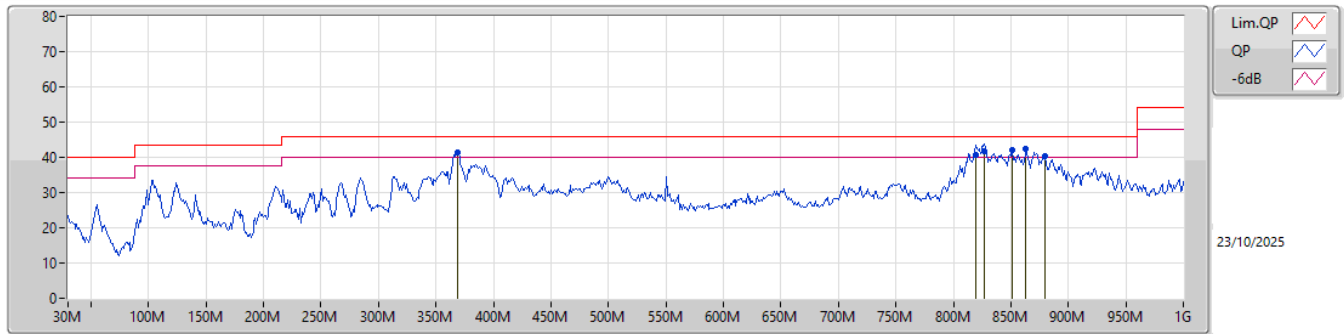
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	PK	870.02M	42.66	46.00	-3.34	Vertical

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)	AF (dB/m)	CL (dB)	PA (dB)		
QP	39.7M	34.81	40.00	-5.19	-12.15	3	Vertical	2	1.00	-	46.96	18.98	0.59	31.72		
PK	819.58M	39.08	46.00	-6.92	-4.00	3	Vertical	81	1.25	-	43.08	25.73	2.97	32.70		
PK	835.1M	41.55	46.00	-4.45	-3.73	3	Vertical	81	1.25	-	45.28	25.89	3.01	32.63		
PK	856.44M	41.54	46.00	-4.46	-3.31	3	Vertical	296	2.00	-	44.85	26.19	3.06	32.56		
PK	870.02M	42.66	46.00	-3.34	-3.19	3	Vertical	46	1.25	"Worst"	45.85	26.27	3.09	32.55		
PK	877.78M	40.85	46.00	-5.15	-3.11	3	Vertical	28	1.25	-	43.96	26.33	3.11	32.55		

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)	AF (dB/m)	CL (dB)	PA (dB)		
PK	368.53M	41.23	46.00	-4.77	-9.40	3	Horizontal	30	1.00	-	50.63	20.83	1.91	32.14		
QP	819.58M	40.54	46.00	-5.46	-4.00	3	Horizontal	240	2.00	-	44.54	25.73	2.97	32.70		
QP	827.34M	41.65	46.00	-4.35	-3.84	3	Horizontal	239	1.00	-	45.49	25.83	2.99	32.66		
PK	851.59M	42.11	46.00	-3.89	-3.39	3	Horizontal	309	1.25	-	45.50	26.13	3.04	32.56		
PK	863.23M	42.49	46.00	-3.51	-3.29	3	Horizontal	205	1.00	"Worst"	45.78	26.19	3.07	32.55		
PK	879.72M	40.36	46.00	-5.64	-3.12	3	Horizontal	304	1.00	-	43.48	26.32	3.11	32.55		

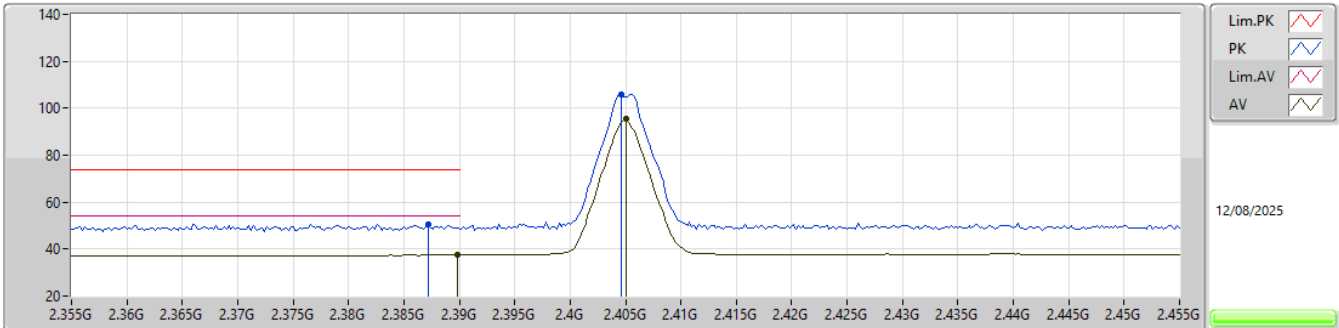


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.15.4_1TX	Pass	AV	2.4835G	53.98	54.00	-0.02	3	Horizontal	35	2.19	-

2.4-2.4835GHz_802.15.4_1TX

2405MHz_TX

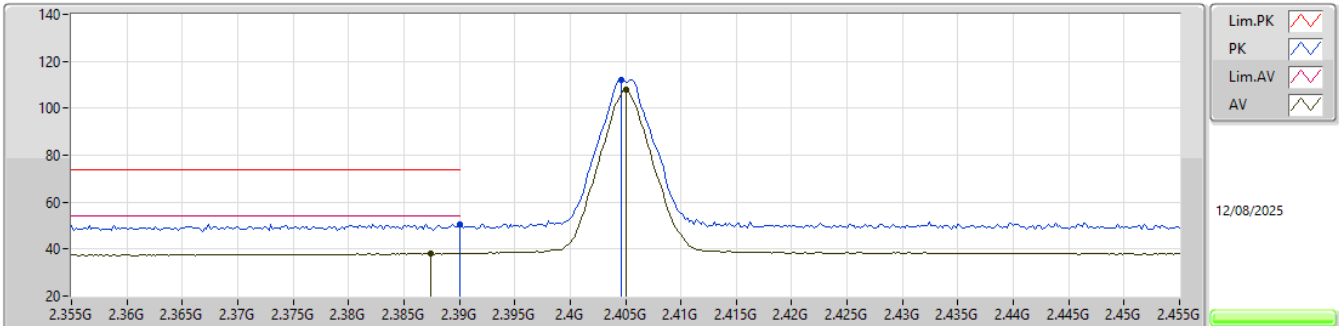


EUT Y_1TX
Setting 12
06-E-S-2-10

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	2.3872G	50.58	74.00	-23.42	50.86	3	Vertical	307	1.61	-	28.34	4.62	33.24				
AV	2.3898G	37.46	54.00	-16.54	37.68	3	Vertical	307	1.61	-	28.40	4.62	33.24				
PK	2.4046G	105.93	Inf	-Inf	106.05	3	Vertical	307	1.61	-	28.50	4.64	33.26				
AV	2.405G	95.40	Inf	-Inf	95.52	3	Vertical	307	1.61	-	28.50	4.64	33.26				

2.4-2.4835GHz_802.15.4_1TX

2405MHz_TX

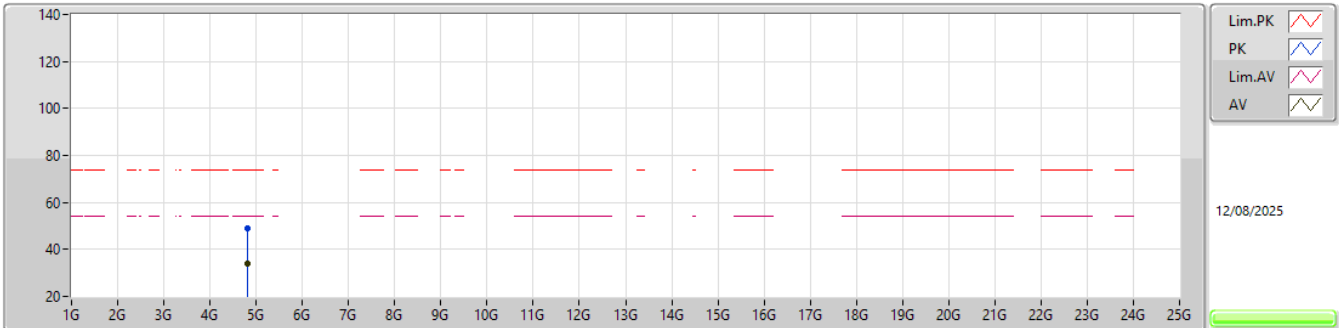


EUT Y_1TX
Setting 12
06-E-S-2-10

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	50.65	74.00	-23.35	50.87	3	Horizontal	38	2.29	-	28.40	4.62	33.24			
AV	2.3874G	38.13	54.00	-15.87	38.40	3	Horizontal	38	2.29	-	28.35	4.62	33.24			
PK	2.4046G	112.31	Inf	-Inf	112.43	3	Horizontal	38	2.29	-	28.50	4.64	33.26			
AV	2.405G	108.07	Inf	-Inf	108.19	3	Horizontal	38	2.29	-	28.50	4.64	33.26			

2.4-2.4835GHz_802.15.4_1TX

2405MHz_TX

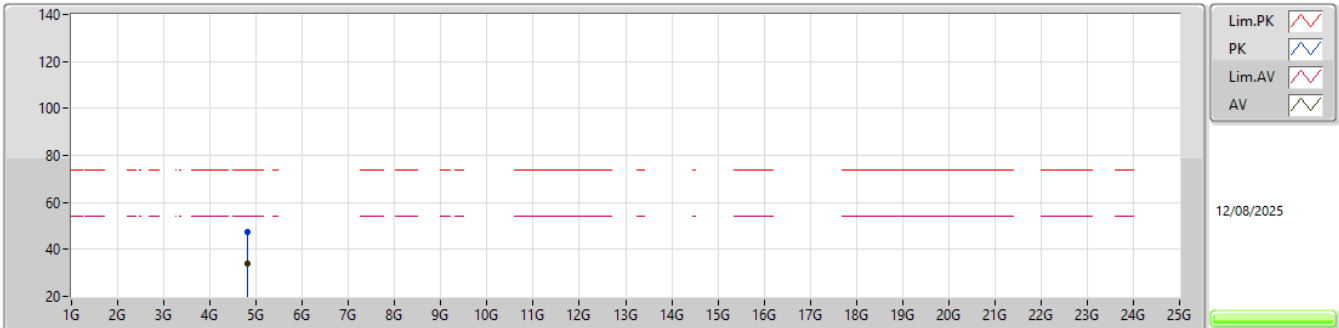


EUT V_1TX
Setting 12
06-E-S-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA			
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)			
PK	4.80875G	48.95	74.00	-25.05	43.06	3	Vertical	47	1.80	-	33.00	6.55	33.66			
AV	4.80802G	34.07	54.00	-19.93	28.18	3	Vertical	47	1.80	-	33.00	6.55	33.66			

2.4-2.4835GHz_802.15.4_1TX

2405MHz_TX

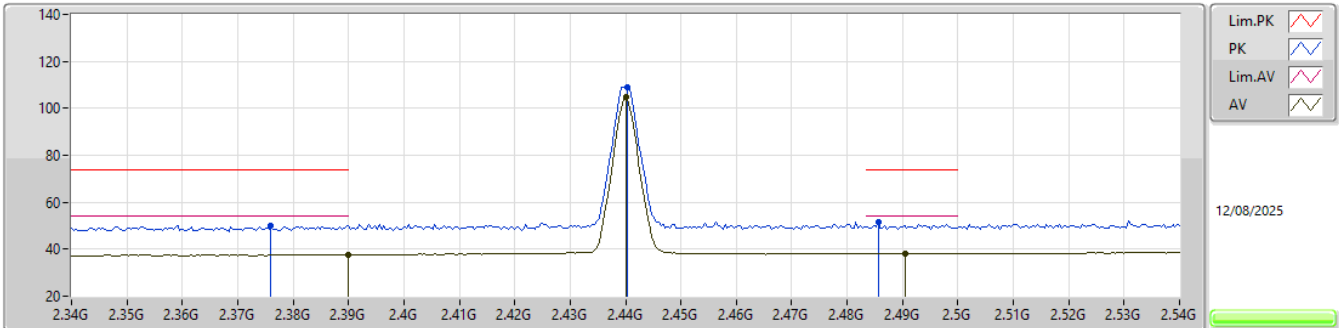


EUT_V_1TX
Setting 12
06-E-S-2

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	4.8088G	47.52	74.00	-26.48	41.63	3	Horizontal	302	1.09	-	33.00	6.55	33.66			
AV	4.80904G	33.90	54.00	-20.10	28.01	3	Horizontal	302	1.09	-	33.00	6.55	33.66			

2.4-2.4835GHz_802.15.4_1TX

2440MHz_TX

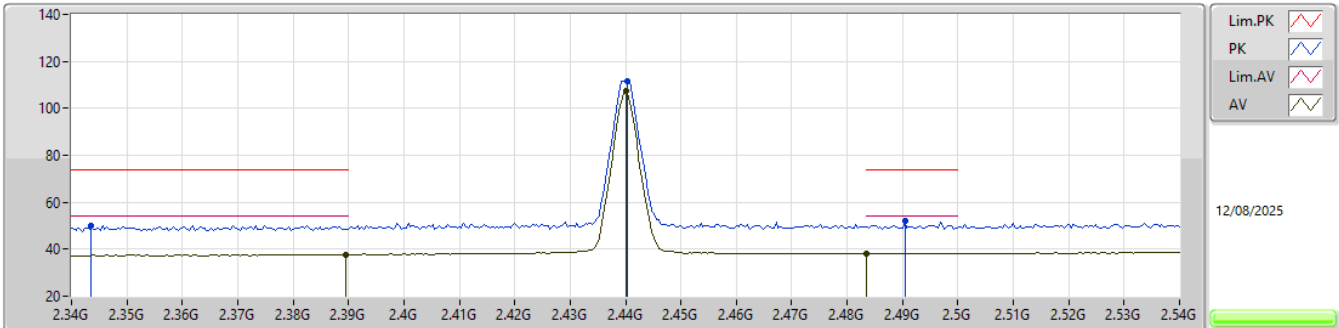


EUT_V_1TX
Setting 12
06-E-S-2-10

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	2.376G	50.20	74.00	-23.80	50.66	3	Vertical	313	1.46	-	28.16	4.61	33.23			
AV	2.39G	37.73	54.00	-16.27	37.95	3	Vertical	313	1.46	-	28.40	4.62	33.24			
PK	2.440G	109.07	Inf	-Inf	109.06	3	Vertical	313	1.46	-	28.60	4.70	33.29			
AV	2.44G	104.84	Inf	-Inf	104.83	3	Vertical	313	1.46	-	28.60	4.70	33.29			
PK	2.4856G	51.66	74.00	-22.34	51.41	3	Vertical	313	1.46	-	28.80	4.78	33.33			
AV	2.4904G	38.24	54.00	-15.76	37.99	3	Vertical	313	1.46	-	28.80	4.78	33.33			

2.4-2.4835GHz_802.15.4_1TX

2440MHz_TX

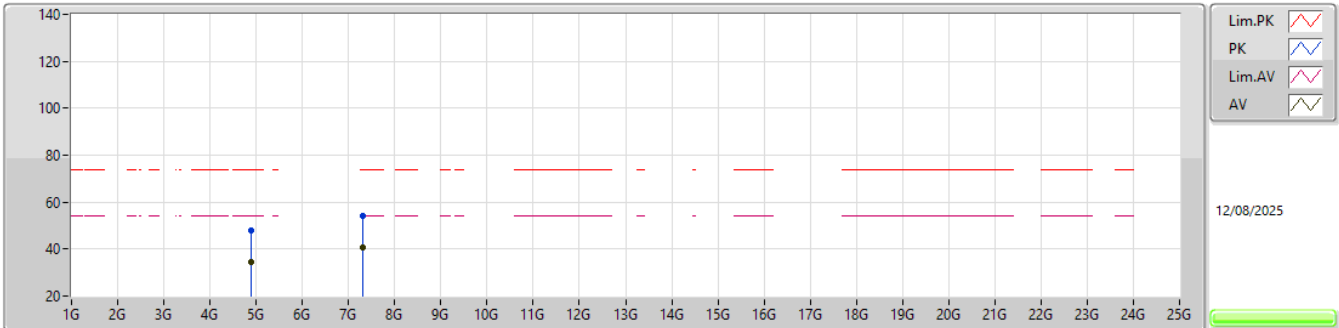


EUT_V_1TX
Setting 12
06-E-S-2-10

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	2.3436G	50.23	74.00	-23.77	50.80	3	Horizontal	45	2.01	-	28.04	4.59	33.20			
AV	2.3896G	37.70	54.00	-16.30	37.93	3	Horizontal	45	2.01	-	28.39	4.62	33.24			
PK	2.4404G	111.74	Inf	-Inf	111.73	3	Horizontal	45	2.01	-	28.60	4.70	33.29			
AV	2.44G	107.54	Inf	-Inf	107.53	3	Horizontal	45	2.01	-	28.60	4.70	33.29			
PK	2.4904G	51.84	74.00	-22.16	51.59	3	Horizontal	45	2.01	-	28.80	4.78	33.33			
AV	2.4835G	38.29	54.00	-15.71	38.05	3	Horizontal	45	2.01	-	28.80	4.77	33.33			

2.4-2.4835GHz_802.15.4_1TX

2440MHz_TX

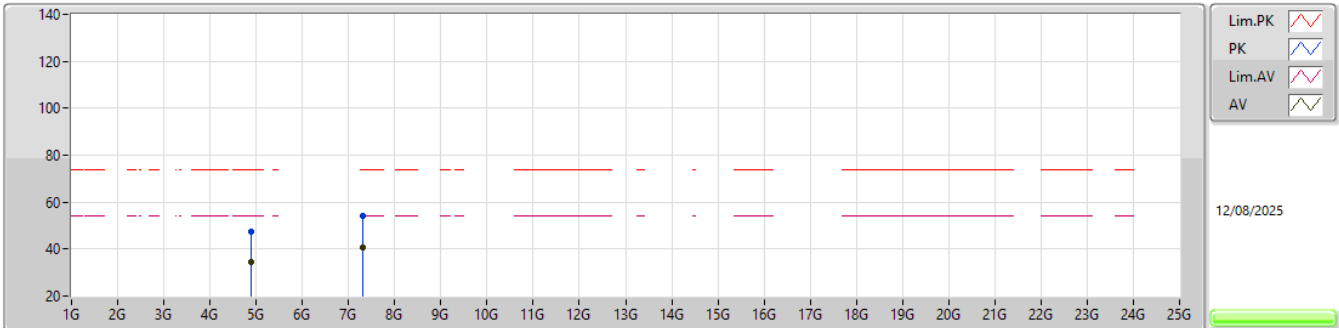


EUT_Y_1TX
Setting 12
06-E-S-2

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	4.87971G	47.89	74.00	-26.11	41.89	3	Vertical	249	3.00	-	33.12	6.55	33.67				
AV	4.8825G	34.30	54.00	-19.70	28.29	3	Vertical	249	3.00	-	33.13	6.55	33.67				
PK	7.31992G	54.04	74.00	-19.96	41.66	3	Vertical	161	1.02	-	37.34	8.58	33.54				
AV	7.32035G	40.66	54.00	-13.34	28.28	3	Vertical	161	1.02	-	37.34	8.58	33.54				

2.4-2.4835GHz_802.15.4_1TX

2440MHz_TX

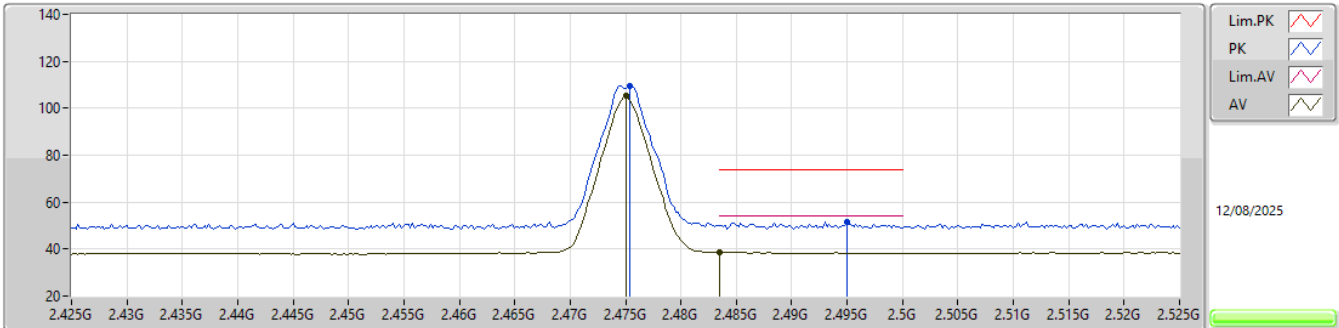


EUT_Y_1TX
Setting 12
06-E-S-2

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	4.87782G	47.43	74.00	-26.57	41.44	3	Horizontal	273	2.73	-	33.11	6.55	33.67				
AV	4.8823G	34.26	54.00	-19.74	28.25	3	Horizontal	273	2.73	-	33.13	6.55	33.67				
PK	7.32164G	53.90	74.00	-20.10	41.52	3	Horizontal	181	1.41	-	37.34	8.58	33.54				
AV	7.31852G	40.58	54.00	-13.42	28.20	3	Horizontal	181	1.41	-	37.34	8.58	33.54				

2.4-2.4835GHz_802.15.4_1TX

2475MHz_TX

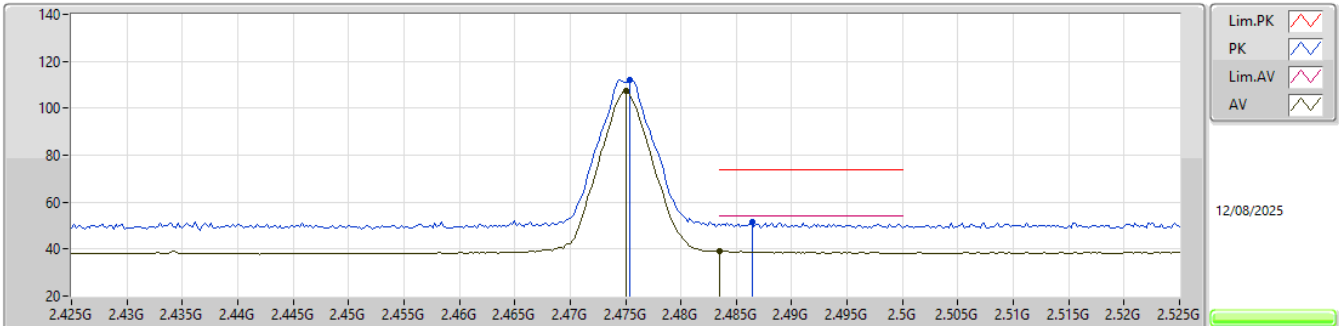


EUT_Y_1TX
Setting 12
06-E-S-2-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)				
PK	2.4754G	109.63	Inf	-Inf	109.48	3	Vertical	324	1.32	-	28.71	4.76	33.32				
AV	2.475G	105.36	Inf	-Inf	105.22	3	Vertical	324	1.32	-	28.70	4.76	33.32				
PK	2.495G	51.50	74.00	-22.50	51.25	3	Vertical	324	1.32	-	28.80	4.79	33.34				
AV	2.4835G	38.63	54.00	-15.37	38.39	3	Vertical	324	1.32	-	28.80	4.77	33.33				

2.4-2.4835GHz_802.15.4_1TX

2475MHz_TX

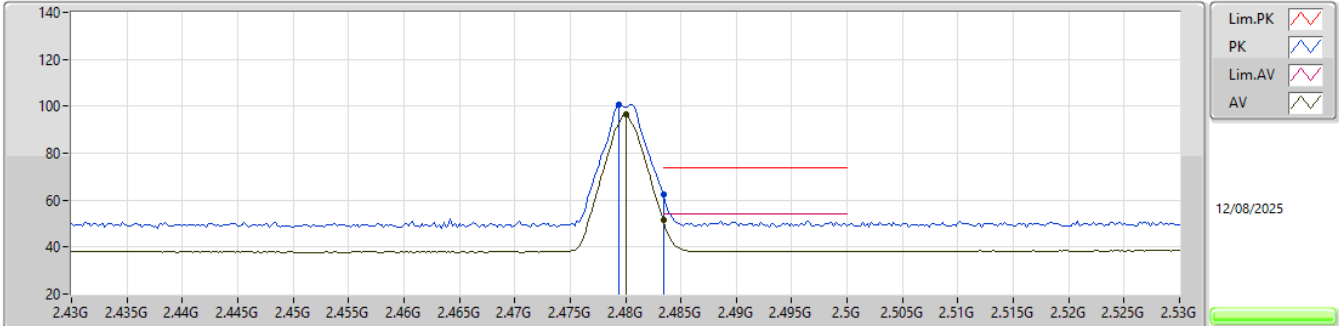


EUT Y_1TX
Setting 12
06-E-S-2-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA			
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)			
PK	2.4754G	111.85	Inf	-Inf	111.70	3	Horizontal	40	2.03	-	28.71	4.76	33.32			
AV	2.475G	107.58	Inf	-Inf	107.44	3	Horizontal	40	2.03	-	28.70	4.76	33.32			
PK	2.4864G	51.33	74.00	-22.67	51.08	3	Horizontal	40	2.03	-	28.80	4.78	33.33			
AV	2.4835G	39.20	54.00	-14.80	38.96	3	Horizontal	40	2.03	-	28.80	4.77	33.33			

2.4-2.4835GHz_802.15.4_1TX

2480MHz_TX

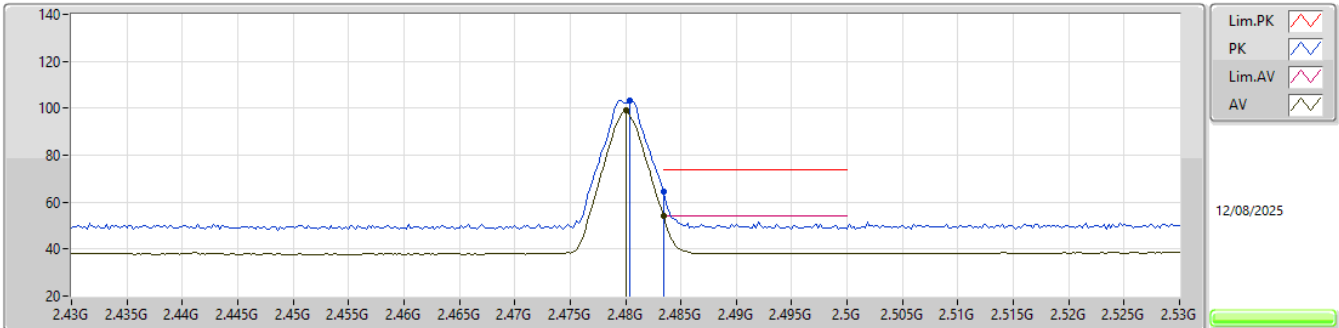


EUT_Y_1TX
Setting 4
06-E-S-2-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)				
PK	2.4794G	100.88	Inf	-Inf	100.65	3	Vertical	322	1.54	-	28.79	4.76	33.32				
AV	2.48G	96.57	Inf	-Inf	96.32	3	Vertical	322	1.54	-	28.80	4.77	33.32				
PK	2.4835G	62.36	74.00	-11.64	62.12	3	Vertical	322	1.54	-	28.80	4.77	33.33				
AV	2.4835G	51.37	54.00	-2.63	51.13	3	Vertical	322	1.54	-	28.80	4.77	33.33				

2.4-2.4835GHz_802.15.4_1TX

2480MHz_TX

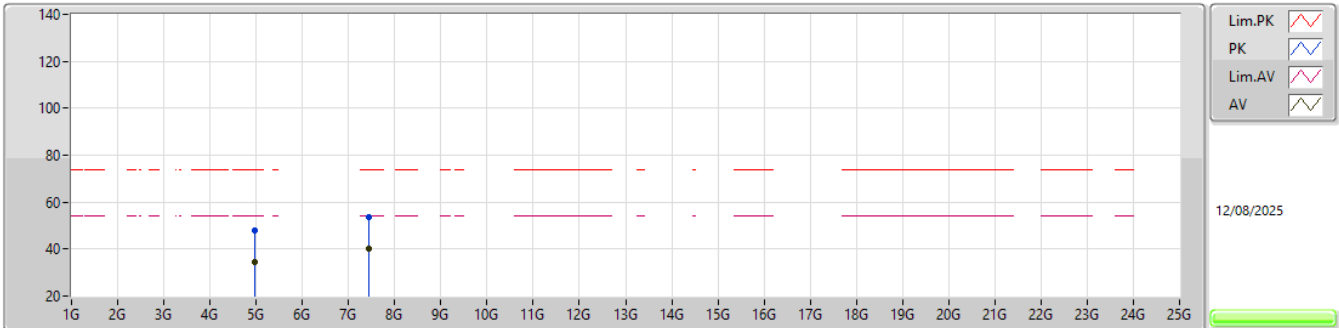


EUT Y_1TX
Setting 4
06-E-S-2-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)				
PK	2.4804G	103.35	Inf	-Inf	103.10	3	Horizontal	35	2.19	-	28.80	4.77	33.32				
AV	2.48G	99.01	Inf	-Inf	98.76	3	Horizontal	35	2.19	-	28.80	4.77	33.32				
PK	2.4835G	64.52	74.00	-9.48	64.28	3	Horizontal	35	2.19	-	28.80	4.77	33.33				
AV	2.4835G	53.98	54.00	-0.02	53.74	3	Horizontal	35	2.19	-	28.80	4.77	33.33				

2.4-2.4835GHz_802.15.4_1TX

2480MHz_TX

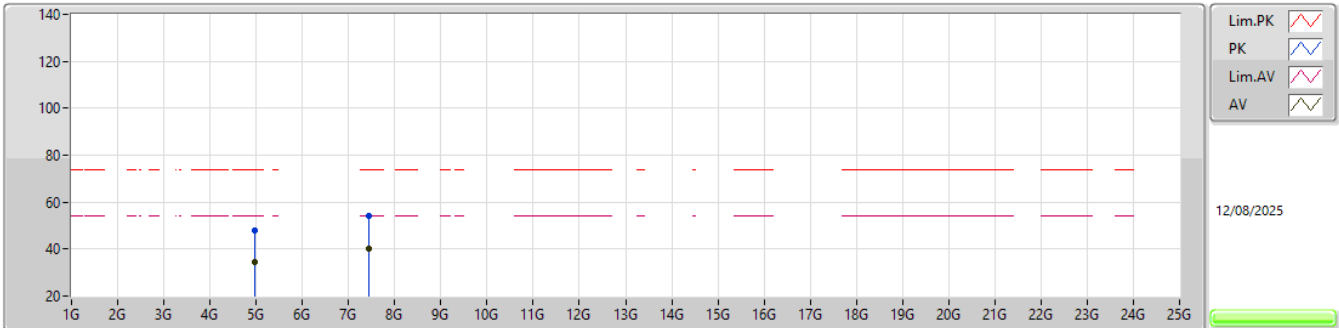


EUT_Y_1TX
Setting 4
06-E-S-2

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	4.95811G	48.14	74.00	-25.86	42.06	3	Vertical	50	2.81	-	33.20	6.56	33.68			
AV	4.95879G	34.41	54.00	-19.59	28.33	3	Vertical	50	2.81	-	33.20	6.56	33.68			
PK	7.43784G	53.51	74.00	-20.49	41.02	3	Vertical	177	2.93	-	37.38	8.70	33.59			
AV	7.43803G	40.16	54.00	-13.84	27.66	3	Vertical	177	2.93	-	37.38	8.71	33.59			

2.4-2.4835GHz_802.15.4_1TX

2480MHz_TX



EUT_Y_1TX
Setting 4
06-E-S-2

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	4.96038G	47.88	74.00	-26.12	41.80	3	Horizontal	9	2.92	-	33.20	6.56	33.68			
AV	4.96087G	34.43	54.00	-19.57	28.35	3	Horizontal	9	2.92	-	33.20	6.56	33.68			
PK	7.43751G	54.39	74.00	-19.61	41.90	3	Horizontal	223	1.76	-	37.38	8.70	33.59			
AV	7.43774G	40.11	54.00	-13.89	27.62	3	Horizontal	223	1.76	-	37.38	8.70	33.59			