Testing Laboratory 3787

RADIO TEST REPORT

FCC ID	:	2AHBN-AP36
Equipment	:	Wi-Fi 7 Wireless Access Point
Brand Name	:	Juniper
Model Name	:	AP36, AP37, AP36M
Applicant	:	Juniper Networks, Inc. 1133 Innovation Way Sunnyvale, California 94089 USA
Manufacturer	:	Juniper Networks, Inc. 1133 Innovation Way Sunnyvale, California 94089 USA
Standard	:	47 CFR FCC Part 15.247

The product was received on Jun. 13, 2025, and testing was started from Jun. 19, 2025 and completed on Aug. 13, 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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History of this test report

Report No.	Version	Description	Issued Date
FR561106AE	01	Initial issue of report	Sep. 02, 2025

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/manufacturer 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: Sandy Chuang

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(Zigbee, Thread)	2405-2480	11-26 [16]

For Radio 4:

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.15.4(Zigbee, Thread)	3	1

Note:
- 802.15.4(Zigbee, Thread) uses a O-QPSK (250kbps) modulation.
- BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

<For EUT 1>

Ant.	RF Port	Brand Name	Model Name	Ant. Type	Connector	Gain (dBi)	Modes of Operation
1	1	Juniper	AP36	PIFA	I-PEX	Note 1	WLAN 2.4GHz (Radio 2) WLAN 5GHz UNII 1-3 (Radio 1)
2	2	Juniper	AP36	PIFA	I-PEX		
3	3	Juniper	AP36	PIFA	I-PEX		
4	4	Juniper	AP36	PIFA	I-PEX		
5	1	Juniper	AP36	Alford loop	I-PEX		WLAN 6GHz UNII 5-8 (Radio 0)
6	2	Juniper	AP36	Alford loop	I-PEX		
7	3	Juniper	AP36	Alford loop	I-PEX		
8	4	Juniper	AP36	Alford loop	I-PEX		
9	1	Juniper	AP36	PIFA	I-PEX		WLAN 2.4GHz WLAN 5GHz UNII 1-3 WLAN 6GHz UNII 5-8 (Radio 3)
10	1	Juniper	AP36	PIFA	I-PEX	4.3	802.15.4 (Zigbee, Thread) (Radio 4)
11	1	Juniper	AP36	PIFA	I-PEX	4.6	Bluetooth (Radio 4)
12	1	Juniper	AP36	PIFA	I-PEX	4.8	GPS (Radio 5)

Note 1:

Ant.	Antenna Gain (dBi)				
	WLAN 2.4GHz (Radio 2)	WLAN 5GHz UNII 1-3 (Radio 1)			
	2.45GHz	5.2GHz	5.3GHz	5.6GHz	5.785GHz
1	4.05	3.21	3.24	4.11	4.4
2	3.39	3.48	3.74	5.48	5.39
3	-	3.64	3.79	3.56	3.47
4	-	4.60	4.98	3.74	4.32

Ant.	WLAN 6GHz UNII 5-8 (Radio 0)			
	6.175GHz	6.475GHz	6.695GHz	6.995GHz
5	3.50	4.84	4.27	4.47
6	4.49	5.36	3.76	5.35
7	2.59	4.25	3.36	3.65
8	4.04	5.27	3.69	4.18

Ant.	Scanning radio (Radio 3)								
	2.45GHz	5.2GHz	5.3GHz	5.6GHz	5.785GHz	6.175GHz	6.475GHz	6.695GHz	6.995GHz
9	4.05	3.36	3.45	4.41	4.2	4.22	4.16	4.78	4.89

Directional Gain (dBi)				
Item	WLAN 2.4GHz (Radio 2)			
	2.45GHz			
2T1S	5.38			
2T2S	4.05			
Item	WLAN 5GHz UNII 1-3 (Radio 1)			
	5.2GHz	5.3GHz	5.6GHz	5.785GHz
4T1S	7.24	8.01	8.66	8.48
4T2S	4.60	5.01	5.66	5.48
4T4S	4.60	4.98	5.48	5.39
Item	WLAN 6GHz UNII 5-8 (Radio 0)			
	6.175GHz	6.475GHz	6.695GHz	6.995GHz
4T1S	8.56	9.91	8.62	9.51
4T2S	5.56	6.91	5.62	6.51
4T4S	4.49	5.36	4.27	5.35

Note 2: The above information (excepting Ant. 1-9 antenna gain and directional gain) was declared by Manufacturer.

Note 3: Radio 0-3: Maximum Directional Gain following KDB662911 D03.

For Radio 0:
6GHz (UNII 5-8) IEEE 802.11ax/be mode (4TX/4RX)
Port 1, Port 2, Port 3 and Port 4 can be used as transmitting/receiving antenna.
Port 1, Port 2, Port 3 and Port 4 could transmit/receive simultaneously.
For Radio 1:
5GHz (UNII 1-3) IEEE 802.11a/n/ac/ax/be mode (4TX/4RX)
Port 1, Port 2, Port 3 and Port 4 can be used as transmitting/receiving antenna.
Port 1, Port 2, Port 3 and Port 4 could transmit/receive simultaneously.
For Radio 2:
2.4GHz IEEE 802.11b/g/n/VHT/ax/be mode (2TX/2RX)
Port 1 and Port 2 can be used as transmitting/receiving antenna.
Port 1 and Port 2 could transmit/receive simultaneously.
For Radio 3(Scanning radio):
2.4GHz IEEE 802.11b/g/n/VHT/ax/be mode (1TX/1RX)
5GHz (UNII 1-3) IEEE 802.11a/n/ac/ax mode (1TX/1RX)
6GHz (UNII 5-8) IEEE 802.11ax mode (1TX/1RX)
Only Port 1 can be used as transmitting/receiving antenna.
For Radio 4:
Bluetooth and 802.15.4(Zigbee, Thread) mode (1TX/1RX)
Only Port 1 can be used as transmitting/receiving antenna.
For Radio 5:
GPS (1RX)
Only Port 1 can be used as receiving antenna.

<For EUT 2>

Ant.	RF Port	Brand Name	Model Name	Ant. Type	Connector	Gain (dBi)	Modes of Operation
1	1	Juniper	AP37	PIFA	I-PEX	Note 1	WLAN 2.4GHz (Radio 2) WLAN 5GHz UNII 1-3 (Radio 1)
2	2	Juniper	AP37	PIFA	I-PEX		
3	3	Juniper	AP37	PIFA	I-PEX		
4	4	Juniper	AP37	PIFA	I-PEX		
5	1	Juniper	AP37	Alford loop	I-PEX		WLAN 6GHz UNII 5-8 (Radio 0)
6	2	Juniper	AP37	Alford loop	I-PEX		
7	3	Juniper	AP37	Alford loop	I-PEX		
8	4	Juniper	AP37	Alford loop	I-PEX		
9	1	Juniper	AP37	PIFA	I-PEX		WLAN 2.4GHz WLAN 5GHz UNII 1-3 WLAN 6GHz UNII 5-8 (Radio 3)
10	1	Juniper	AP37	PIFA	I-PEX	3.5	802.15.4 (Zigbee, Thread) (Radio 4)
11	1	Juniper	AP37	PIFA	I-PEX	Beam 1-8: 4.2 Omni: 0.7	Bluetooth array [Beam 1-8/Omni] (Radio 4)
12	1	Juniper	AP37	Patch	I-PEX	2.7	Bluetooth array [Beam 9] (Radio 4)
13	1	Juniper	AP37	PIFA	I-PEX	3.7	GPS (Radio 5)

Note 1:

Ant.	Antenna Gain (dBi)				
	WLAN 2.4GHz (Radio 2)	WLAN 5GHz UNII 1-3 (Radio 1)			
	2.45GHz	5.2GHz	5.3GHz	5.6GHz	5.785GHz
1	3.15	3.09	3.28	3.42	3.32
2	2.60	3.38	3.47	3.16	3.26
3	-	3.34	3.19	3.25	3.21
4	-	3.72	4.2	5.4	5.36
Ant.	WLAN 6GHz UNII 5-8 (Radio 0)				
	6.175GHz	6.475GHz	6.695GHz	6.995GHz	
5	5.29	6.17	5.78	6.15	
6	4.86	5.02	4.43	5.11	
7	4.02	4.62	3.51	4.29	
8	5.39	5.78	5.57	5.07	

Ant.	Scanning radio (Radio 3)								
	2.45GHz	5.2GHz	5.3GHz	5.6GHz	5.785GHz	6.175GHz	6.475GHz	6.695GHz	6.995GHz
9	3.47	2.57	2.33	3.34	2.81	3.06	4.15	3.87	4.85

Directional Gain (dBi)				
Item	WLAN 2.4GHz (Radio 2)			
	2.45GHz			
2T1S	3.21			
2T2S	3.15			
Item	WLAN 5GHz UNII 1-3 (Radio 1)			
	5.2GHz	5.3GHz	5.6GHz	5.785GHz
4T1S	6.69	6.64	6.89	7.69
4T2S	3.72	4.20	5.40	5.36
4T4S	3.72	4.20	5.40	5.36
Item	WLAN 6GHz UNII 5-8 (Radio 0)			
	6.175GHz	6.475GHz	6.695GHz	6.995GHz
4T1S	8.56	10.00	9.42	10.66
4T2S	5.56	7.00	6.42	7.66
4T4S	5.39	6.17	5.78	6.15

Note 2: The above information (excepting Ant. 1-9 antenna gain and directional gain) was declared by Manufacturer.
Note 3: Radio 0-3: Maximum Directional Gain following KDB662911 D03.
Note 4: The EUT is equipped with thirteen internal antennas.
The ant.11 is BLE array (Beam 1-Beam 8/Omni).
The ant.12 is BLE array (Beam 9).
Beam 1-Beam 8, Omni, and Beam 9 can't operate simultaneously.

For Radio 0:
6GHz (UNII 5-8) IEEE 802.11ax/be mode (4TX/4RX)
Port 1, Port 2, Port 3 and Port 4 can be used as transmitting/receiving antenna.
Port 1, Port 2, Port 3 and Port 4 could transmit/receive simultaneously.
For Radio 1:
5GHz (UNII 1-3) IEEE 802.11a/n/ac/ax/be mode (4TX/4RX)
Port 1, Port 2, Port 3 and Port 4 can be used as transmitting/receiving antenna.
Port 1, Port 2, Port 3 and Port 4 could transmit/receive simultaneously.
For Radio 2:
2.4GHz IEEE 802.11b/g/n/VHT/ax/be mode (2TX/2RX)
Port 1 and Port 2 can be used as transmitting/receiving antenna.
Port 1 and Port 2 could transmit/receive simultaneously.
For Radio 3(Scanning radio):
2.4GHz IEEE 802.11b/g/n/VHT/ax/be mode (1TX/1RX)
5GHz (UNII 1-3) IEEE 802.11a/n/ac/ax mode (1TX/1RX)
6GHz (UNII 5-8) IEEE 802.11ax mode (1TX/1RX)
Only Port 1 can be used as transmitting/receiving antenna.
For Radio 4:
Bluetooth and 802.15.4(Zigbee, Thread) mode (1TX/1RX)
Only Port 1 can be used as transmitting/receiving antenna.
For Radio 5:
GPS (1RX)
Only Port 1 can be used as receiving antenna.

<For EUT 3>
Internal Ant.

Ant.	RF Port	Brand Name	Model Name	Ant. Type	Connector	Gain (dBi)	Modes of Operation
1	1	Juniper	AP36M	Dipole	I-PEX	Note 1	WLAN 2.4GHz (Radio 2) WLAN 5GHz UNII 1-3 (Radio 1)
2	2	Juniper	AP36M	Dipole	I-PEX		
3	3	Juniper	AP36M	Patch	I-PEX		
4	4	Juniper	AP36M	Patch	I-PEX		
5	1	Juniper	AP36M	Patch	I-PEX		WLAN 6GHz UNII 5-8 (Radio 0)
6	2	Juniper	AP36M	Patch	I-PEX		
7	3	Juniper	AP36M	Patch	I-PEX		
8	4	Juniper	AP36M	Patch	I-PEX		
9	1	Juniper	AP36M	PIFA	I-PEX	Note 1	WLAN 2.4GHz WLAN 5GHz UNII 1-3 WLAN 6GHz UNII 5-8 (Radio 3)
10	1	Juniper	AP36M	Dipole	I-PEX	6.6	802.15.4 (Zigbee, Thread) (Radio 4)
11	1	Juniper	AP36M	PIFA	I-PEX	4.6	Bluetooth (Radio 4)
12	1	Juniper	AP36M	PIFA	I-PEX	4.4	GPS (Radio 5)

Note 1:

Ant.	Antenna Gain (dBi)				
	WLAN 2.4GHz (Radio 2)	WLAN 5GHz UNII 1-3 (Radio 1)			
	2.45GHz	5.2GHz	5.3GHz	5.6GHz	5.785GHz
1	6.52	3.62	4.13	3.78	3.75
2	6.07	3.29	3.51	4.29	4.27
3	-	3.61	4.41	5.67	4.86
4	-	3.93	4.55	5.72	5.62

Ant.	WLAN 6GHz UNII 5-8 (Radio 0)			
	6.175GHz	6.475GHz	6.695GHz	6.995GHz
5	5.12	5.82	3.88	5.21
6	5.84	6.27	4.17	5.08
7	5.57	5.74	4.23	4.99
8	4.74	4.6	4.57	4.34

Ant.	Scanning radio (Radio 3)								
	2.45GHz	5.2GHz	5.3GHz	5.6GHz	5.785GHz	6.175GHz	6.475GHz	6.695GHz	6.995GHz
9	5.12	2.84	3.5	4.28	3.75	3.74	3.42	2.95	3.57

Directional Gain (dBi)				
Item	WLAN 2.4GHz (Radio 2)			
	2.45GHz			
2T1S	6.52			
2T2S	6.52			
Item	WLAN 5GHz UNII 1-3 (Radio 1)			
	5.2GHz	5.3GHz	5.6GHz	5.785GHz
4T1S	5.72	6.05	7.24	6.79
4T2S	3.93	4.55	5.72	5.62
4T4S	3.93	4.55	5.72	5.62
Item	WLAN 6GHz UNII 5-8 (Radio 0)			
	6.175GHz	6.475GHz	6.695GHz	6.995GHz
4T1S	8.76	9.31	8.26	8.09
4T2S	5.84	6.31	5.26	5.21
4T4S	5.84	6.27	4.57	5.21

Note 1: The above information (excepting Ant. 1-9 antenna gain and directional gain) was declared by Manufacturer.
Note 2: Radio 0-3: Maximum Directional Gain following KDB662911 D03.
Note 3: The EUT is equipped with twelve internal antennas.

External Ant.

Ant.	RF Port	Brand Name	Model Name	Ant. Type	Connector	Gain (dBi)	Modes of Operation
1	1	AccelTex	ATS-OP-2456-81010-10MPC-36	Patch	4-Port Samtec	Note 1	WLAN 2.4GHz (Radio 2) WLAN 5GHz UNII 1-3 (Radio 1)
	2						
	3						
	4						
	1				6-Port Samtec		WLAN 6GHz UNII 5-8 (Radio 0)
	2						
	3						
	4						
	1						WLAN 2.4GHz WLAN 5GHz UNII 1-3 WLAN 6GHz UNII 5-8 (Radio 3)

Note 1:

Ant.	Antenna Gain (dBi)			
	WLAN 2.4GHz (Radio 2)	**WLAN 5GHz UNII 1-3 (Radio 1)**		
	2.4GHz	**5GHz**		
1	8	10		
	WLAN 6GHz UNII 5-8 (Radio 0)	**Scanning radio (Radio 3)**		
	6GHz	**2.4GHz**	**5GHz**	**6GHz**
	10	8	10	10

Note 2: The 6GHz function in the external antenna is not enabled at this time.
Note 3: The WiFi internal and external antennas do not operate at the same time.
Note 4: Antenna 1 is cross-polarized, with detailed information as follows:
Radio 0, 1: Vertical*2, Horizontal*2; the array gain only add 10log(2).
Radio 2: Vertical*1, Horizontal*1; it doesn't need to evaluate the array gain.
Note 5: The above information was declared by manufacturer.

Note 5: 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	$Directional Gain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$
BF	$Directional Gain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$	$Directional Gain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$

Ex.

Directional Gain (NSS1) formula : $Directional Gain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$

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

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

Where ;

Cross-Polarized Antenna

Radio 2

G1= 8 dBi ;G2= 8 dBi ; DG = 8 dBi

Radio 1

5G UNII-1 G1 = 10 dBi; G2 = 10 dBi;G3 = 10 dBi; G4 = 10 dBi ; DG = 13.01 dBi

5G UNII-2A G1 = 10 dBi; G2 = 10 dBi;G3 = 10 dBi; G4 = 10 dBi ; DG = 13.01 dBi

5G UNII-2C G1 = 10 dBi; G2 = 10 dBi;G3 = 10 dBi; G4 = 10 dBi ; DG = 13.01 dBi

5G UNII-3 G1 = 10 dBi; G2 = 10 dBi;G3 = 10 dBi; G4 = 10 dBi ; DG = 13.01 dBi

For Radio 0:
6GHz (UNII 5-8) IEEE 802.11ax/be mode (4TX/4RX)
Port 1, Port 2, Port 3 and Port 4 can be used as transmitting/receiving antenna.
Port 1, Port 2, Port 3 and Port 4 could transmit/receive simultaneously.
For Radio 1:
5GHz (UNII 1-3) IEEE 802.11a/n/ac/ax/be mode (4TX/4RX)
Port 1, Port 2, Port 3 and Port 4 can be used as transmitting/receiving antenna.
Port 1, Port 2, Port 3 and Port 4 could transmit/receive simultaneously.
For Radio 2:
2.4GHz IEEE 802.11b/g/n/VHT/ax/be mode (2TX/2RX)
Port 1 and Port 2 can be used as transmitting/receiving antenna.
Port 1 and Port 2 could transmit/receive simultaneously.
For Radio 3(Scanning radio):
2.4GHz IEEE 802.11b/g/n/VHT/ax/be mode (1TX/1RX)
5GHz (UNII 1-3) IEEE 802.11a/n/ac/ax mode (1TX/1RX)
6GHz (UNII 5-8) IEEE 802.11ax mode (1TX/1RX)
Only Port 1 can be used as transmitting/receiving antenna.
For Radio 4:
Bluetooth and 802.15.4(Zigbee, Thread) mode (1TX/1RX)
Only Port 1 can be used as transmitting/receiving antenna.
For Radio 5:
GPS (1RX)
Only Port 1 can be used as receiving antenna.

1.1.3 Mode Test Duty Cycle

<For EUT 1>

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.15.4(Zigbee&Thread)	0.909	0.41	4.256m	300

<For EUT 3>

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.15.4(Zigbee&thread)	0.904	0.44	4.256m	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	DOS [ver 6.1.7601]			

Note: The above information was declared by manufacturer.

1.1.5 Table for Multiple Listing

EUT	Model Name	6GHz (6ID)	6GHz (6SD)	Wi-Fi Antenna	802.15.4 Antenna	BT Antenna	GPS Antenna
1	AP36	Support	Support	Internal antenna (AP36/AP37 the same)	AP36/AP37 the same	AP36/AP36M the same	the same
2	AP37	Support	Support	Internal antenna (AP36/AP37 the same)	AP36/AP37 the same	Not the same	the same
3	AP36M	Internal Antenna: Support External Antenna: Not support	Internal Antenna: Support External Antenna: Support	Internal Antenna (Not the same) External Antenna	Not the same	AP36/AP36M the same	the same

Note 1: All models are identical to each other in all aspects except for the listing table.
Note 2: The WLAN 6GHz (6SD) function is not enabled at this time.
Note 3: The above information was declared by manufacturer.
Note 4: Based on the differences shown in the table above, all models were selected for AC power-line conducted emissions and radiated emissions below 1 GHz testing. The models selected for the remaining test items are shown in the table below.

Model / Radio	AP36 (EUT 1)	AP37 (EUT 2)	AP36M (EUT 3)
0 (6GHz)	N/A	Yes (Note 5)	Yes (Internal antenna)
1 (5GHz)	Yes (Note 5)	N/A	Yes (Internal&External antenna)
2 (2.4GHz)	Yes (Note 5)	N/A	Yes (Internal&External antenna)
3 (Scanning radio 2.4/5/6GHz)	Yes (Note 5)	N/A	Yes (Internal&External antenna)
4 (802.15.4 (Zigbee, Thread))	Yes (Note 6)	Yes (Note 6)	Yes
4 (Bluetooth)	Yes (Note 7)	Yes	Yes (Note 7)

Note 5: The worst case was selected from EUT 1 and EUT 2 for testing.
Note 6:
For RF radiated emissions: EUT 1 and EUT 2 were selected for testing.
For RF conducted emissions: Only the highest gain antenna from EUT 1 and EUT 2 was selected for testing.
Note 7:
For RF radiated emissions: EUT 1 and EUT 3 were selected for testing.
For RF conducted emissions: Only the highest gain antenna from EUT 1 and EUT 3 was selected for testing.

1.1.6 Table for Radio Function

For EUT 1~3:

Function / Radio	WLAN 2.4GHz	WLAN 5GHz	WLAN 6GHz	Bluetooth	802.15.4 (Zigbee, Thread)	GPS
0	-	-	V (UNII 5~8)	-	-	-
1	-	V (UNII 1-3)	-	-	-	-
2	V	-	-	-	-	-
3 (Scanning radio)	V	V (UNII 1-3)	V (UNII 5~8)	-	-	-
4	-	-	-	V	V	-
5	-	-	-	-	-	V

Note 1: For WLAN 2.4GHz: The Radio 2 and Radio 3 (Scanning radio) can't operate at the same frequency simultaneously.
For WLAN 5GHz: The Radio 1 and Radio 3 (Scanning radio) can't operate at the same frequency simultaneously.
For WLAN 6GHz: The Radio 0 and Radio 3 (Scanning radio) can't operate at the same frequency simultaneously.
Note 2: 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 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	TH02-CB	Gino Huang	21.3~22.5 / 58~61	Jun. 19, 2025~ Aug. 13, 2025
Radiated below 1GHz	10CH01-CB	Ryan Huang	23~24 / 56~57	Jul. 23, 2025~ Aug. 04, 2025
Radiated above 1GHz (EUT 1)	03CH04-CB 03CH05-CB 03CH06-CB	Gordon Hung	21.4~22.6 °C / 57~61% 21.5~22.9 °C / 57~60% 21.9~23.1 °C / 60~62%	Jun. 19, 2025~ Jul. 22, 2025
Radiated above 1GHz (EUT 2)	03CH03-CB	Gordon Hung	21.6~23.1 / 58~62	Jun. 19, 2025~ Jul. 22, 2025
Radiated above 1GHz (EUT 3)	03CH05-CB	Gordon Hung	21.5~22.9 / 57~60	Jun. 19, 2025~ Jul. 22, 2025
AC Conduction	CO02-CB	Elvin Yeh	22~23 / 55~56	Jul. 31, 2025~ Aug. 06, 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)	3.4 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	3.8 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.9 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

<For EUT 1>

Mode
802.15.4(Zigbee&Thread)
2405MHz
2440MHz
2475MHz
2480MHz

<For EUT 3>

Mode
802.15.4(Zigbee&thread)
2405MHz
2440MHz
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 1_R0: 6GHz+R1: 5GHz+R2: 2.4GHz+R3: 2.4GHz+R4: Bluetooth+R5: GPS+PoE
2	EUT 1_R0: 6GHz+R1: 5GHz+R2: 2.4GHz+R3: 5GHz+R4: Bluetooth+R5: GPS+PoE
3	EUT 1_R0: 6GHz+R1: 5GHz+R2: 2.4GHz+R3: 6GHz+R4: Bluetooth+R5: GPS+PoE
Mode 2 has been evaluated to be the worst case among Mode 1~3, thus measurement for Mode 4~5 will follow this same test mode.	
4	EUT 1_R0: 6GHz+R1: 5GHz+R2: 2.4GHz+R3: 5GHz+R4: 802.15.4(TX)+R5: GPS+PoE
5	EUT 1_R0: 6GHz+R1: 5GHz+R2: 2.4GHz+R3: 5GHz+R4: 802.15.4(RX)+R5: GPS+PoE
6	EUT 2_R0: 6GHz+R1: 5GHz+R2: 2.4GHz+R3: 2.4GHz+R4: Bluetooth+R5: GPS+PoE
7	EUT 2_R0: 6GHz+R1: 5GHz+R2: 2.4GHz+R3: 5GHz+R4: Bluetooth+R5: GPS+PoE
8	EUT 2_R0: 6GHz+R1: 5GHz+R2: 2.4GHz+R3: 6GHz+R4: Bluetooth+R5: GPS+PoE
Mode 8 has been evaluated to be the worst case among Mode 6~8, thus measurement for Mode 9~10 will follow this same test mode.	
9	EUT 2_R0: 6GHz+R1: 5GHz+R2: 2.4GHz+R3: 6GHz+R4: 802.15.4(TX)+R5: GPS+PoE
10	EUT 2_R0: 6GHz+R1: 5GHz+R2: 2.4GHz+R3: 6GHz+R4: 802.15.4(RX)+R5: GPS+PoE
11	EUT 3 (External Ant.)_R1: 5GHz+R2: 2.4GHz+R3: 2.4GHz+R4: Bluetooth+R5: GPS+PoE
12	EUT 3 (External Ant.)_R1: 5GHz+R2: 2.4GHz+R3: 5GHz+R4: Bluetooth+R5: GPS+PoE
Mode 12 has been evaluated to be the worst case among Mode 11~12, thus measurement for Mode 13~14 will follow this same test mode.	
13	EUT 3 (External Ant.)_R1: 5GHz+R2: 2.4GHz+R3: 5GHz+ R4: 802.15.4(TX)+ R5: GPS+PoE
14	EUT 3 (External Ant.)_R1: 5GHz+R2: 2.4GHz+R3: 5GHz+ R4: 802.15.4(RX)+ R5: GPS+PoE
Mode 12 has been evaluated to be the worst case among Mode 11~14, thus measurement for Mode 15~17 will follow this same test mode.	
15	EUT 3 (Internal Ant.)_R0: 6GHz+R1: 5GHz+R2: 2.4GHz+R3: 2.4GHz+R4: Bluetooth+R5: GPS+PoE
16	EUT 3 (Internal Ant.)_R0: 6GHz+R1: 5GHz+R2: 2.4GHz+R3: 5GHz+R4: Bluetooth+R5: GPS+PoE
17	EUT 3 (Internal Ant.)_R0: 6GHz+R1: 5GHz+R2: 2.4GHz+R3: 6GHz+R4: Bluetooth+R5: GPS+PoE
For operating mode 12 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
Operating Mode	CTX
1	EUT 1_R4
2	EUT 3_R4

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emissions in Restricted Frequency Bands
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	Normal Link
After evaluating, the worst case was found at Z axis, so it was selected to perform test and its test result was written in the report.	
1	EUT 1 in Z axis_R0: 6GHz+R1: 5GHz+R2: 2.4GHz+R3: 2.4GHz+R4: Bluetooth+R5: GPS+PoE
2	EUT 1 in Z axis_R0: 6GHz+R1: 5GHz+R2: 2.4GHz+R3: 5GHz+R4: Bluetooth+R5: GPS+PoE
3	EUT 1 in Z axis_R0: 6GHz+R1: 5GHz+R2: 2.4GHz+R3: 6GHz+R4: Bluetooth+R5: GPS+PoE
Mode 1 has been evaluated to be the worst case among Mode 1~3, thus measurement for Mode 4~5 will follow this same test mode.	
4	EUT 1 in Z axis_R0: 6GHz+R1: 5GHz+R2: 2.4GHz+R3: 2.4GHz+R4: 802.15.4(TX)+R5: GPS+PoE
5	EUT 1 in Z axis_R0: 6GHz+R1: 5GHz+R2: 2.4GHz+R3: 2.4GHz+R4: 802.15.4(RX)+R5: GPS+PoE
6	EUT 2 in Z axis_R0: 6GHz+R1: 5GHz+R2: 2.4GHz+R3: 2.4GHz+R4: Bluetooth+R5: GPS+PoE
7	EUT 2 in Z axis_R0: 6GHz+R1: 5GHz+R2: 2.4GHz+R3: 5GHz+R4: Bluetooth+R5: GPS+PoE
8	EUT 2 in Z axis_R0: 6GHz+R1: 5GHz+R2: 2.4GHz+R3: 6GHz+R4: Bluetooth+R5: GPS+PoE
Mode 6 has been evaluated to be the worst case among Mode 6~8, thus measurement for Mode 9~10 will follow this same test mode.	
9	EUT 2 in Z axis_R0: 6GHz+R1: 5GHz+R2: 2.4GHz+R3: 2.4GHz+R4: 802.15.4(TX)+R5: GPS+PoE
10	EUT 2 in Z axis_R0: 6GHz+R1: 5GHz+R2: 2.4GHz+R3: 2.4GHz+R4: 802.15.4(RX)+R5: GPS+PoE
11	EUT 3 (External Ant.) in Z axis_R1: 5GHz+R2: 2.4GHz+R3: 2.4GHz+R4: Bluetooth+R5: GPS+PoE
12	EUT 3 (External Ant.) in Z axis_R1: 5GHz+R2: 2.4GHz+R3: 5GHz+R4: Bluetooth+R5: GPS+PoE
Mode 11 has been evaluated to be the worst case among Mode 11~12, thus measurement for Mode 13~14 will follow this same test mode.	
13	EUT 3 (External Ant.) in Z axis_R1: 5GHz+R2: 2.4GHz+R3: 2.4GHz+ R4: 802.15.4(TX)+ R5: GPS+PoE
14	EUT 3 (External Ant.) in Z axis_R1: 5GHz+R2: 2.4GHz+R3: 2.4GHz+ R4: 802.15.4(RX)+ R5: GPS+PoE
Mode 11 has been evaluated to be the worst case among Mode 11~14, thus measurement for Mode 15~17 will follow this same test mode.	
15	EUT 3 (Internal Ant.) in Z axis_R0: 6GHz+R1: 5GHz+R2: 2.4GHz+R3: 2.4GHz+R4: Bluetooth+R5: GPS+PoE
16	EUT 3 (Internal Ant.) in Z axis_R0: 6GHz+R1: 5GHz+R2: 2.4GHz+R3: 5GHz+R4: Bluetooth+R5: GPS+PoE
17	EUT 3 (Internal Ant.) in Z axis_R0: 6GHz+R1: 5GHz+R2: 2.4GHz+R3: 6GHz+R4: Bluetooth+R5: GPS+PoE
For operating mode 15 is the worst case and it was record in this test report.	

Operating Mode > 1GHz	CTX
After evaluating, the worst-case axis was found as below. So the measurement will follow this same test configuration.	
1	EUT 1 in Z axis_R4
2	EUT 2 in Y axis_R4
3	EUT 3 in Y axis_R4

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	EUT 2: R0 WLAN 6GHz+ EUT 1: R1 WLAN 5GHz+R2 WLAN 2.4GHz+R3 WLAN 2.4GHz+R4 Bluetooth
2	EUT 2: R0 WLAN 6GHz+ EUT 1: R1 WLAN 5GHz+R2 WLAN 2.4GHz+R3 WLAN 5GHz+R4 Bluetooth
3	EUT 2: R0 WLAN 6GHz+ EUT 1: R1 WLAN 5GHz+R2 WLAN 2.4GHz+R3 WLAN 6GHz+R4 Bluetooth
4	EUT 2: R0 WLAN 6GHz+R4 Bluetooth+ EUT 1: R1 WLAN 5GHz+ R2 WLAN 2.4GHz+R3 WLAN 2.4GHz
5	EUT 2: R0 WLAN 6GHz+R4 Bluetooth+ EUT 1: R1 WLAN 5GHz+ R2 WLAN 2.4GHz+R3 WLAN 5GHz
6	EUT 2: R0 WLAN 6GHz+R4 Bluetooth+ EUT 1: R1 WLAN 5GHz+ R2 WLAN 2.4GHz+R3 WLAN 6GHz
7	EUT 2: R0 WLAN 6GHz+ EUT 1: R1 WLAN 5GHz+ R2 WLAN 2.4GHz+R3 WLAN 2.4GHz+R4 802.15.4
8	EUT 2: R0 WLAN 6GHz+ EUT 1: R1 WLAN 5GHz+R2 WLAN 2.4GHz+R3 WLAN 5GHz+R4 802.15.4
9	EUT 2: R0 WLAN 6GHz+ EUT 1: R1 WLAN 5GHz+R2 WLAN 2.4GHz+R3 WLAN 6GHz+R4 802.15.4
10	EUT 3 (Internal Ant.): R0 WLAN 6GHz+R1 WLAN 5GHz+R2 WLAN 2.4GHz+R3 WLAN2.4GHz+R4 Bluetooth
11	EUT 3 (Internal Ant.): R0 WLAN 6GHz+R1 WLAN 5GHz+R2 WLAN 5GHz+R3 WLAN5GHz+R4 Bluetooth
12	EUT 3 (Internal Ant.): R0 WLAN 6GHz+R1 WLAN 5GHz+R2 WLAN 6GHz+R3 WLAN6GHz+R4 Bluetooth
13	EUT 3 (Internal Ant.): R0 WLAN 6GHz+R1 WLAN 5GHz+R2 WLAN 2.4GHz+R3 WLAN2.4GHz+R4 802.15.4
14	EUT 3 (Internal Ant.): R0 WLAN 6GHz+R1 WLAN 5GHz+R2 WLAN 2.4GHz+R3 WLAN5GHz+R4 802.15.4
15	EUT 3 (Internal Ant.): R0 WLAN 6GHz+R1 WLAN 5GHz+R2 WLAN 2.4GHz+R3 WLAN6GHz+R4 802.15.4
16	EUT 3 (External Ant.): R1 WLAN 5GHz+R2 WLAN 2.4GHz+R3 WLAN2.4GHz+R4 Bluetooth
17	EUT 3 (External Ant.): R1 WLAN 5GHz+R2 WLAN 2.4GHz+R3 WLAN5GHz+R4 Bluetooth
18	EUT 3 (External Ant.): R1 WLAN 5GHz+R2 WLAN 2.4GHz+R3 WLAN2.4GHz+R4 802.15.4
19	EUT 3 (External Ant.): R1 WLAN 5GHz+R2 WLAN 2.4GHz+R3 WLAN5GHz+R4 802.15.4
Refer to Sporton Test Report No.: FA561106 for Co-location RF Exposure Evaluation.	

Note1: R means Radio.
Note2: The PoE is used for testing purpose; it will not be sold with the EUT

Power	Brand Name	Model Name
PoE	PHIHONG	POE90U-BTA

2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link Mode:

During the test, the EUT operation to normal function.

2.4 Accessories

Accessories
Bracket*1 (Note)
Antenna Bracket of External Ant. 1 (Used for EUT 3) / (Note)

Note: Optional, not sold with EUT

2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	PoE	PHIHONG	POE90U-BTA	N/A
B	Flash disk3.0	Transcend	JetFlash-703	N/A
C	10G Eth0+PoE PC	ASUS	S300TA	TX2-RTL8821CE
D	PSE Device PC	ASUS	S300TA	TX2-RTL8821CE
E	PSE Device	Juniper	AP36M	2AHBN-AP36
F	5G Scan NB	Lenovo	X260	N/A
G	2.4G NB	Lenovo	X260	N/A
H	5G NB	Lenovo	X260	N/A
I	GPS Simulator	WELNAVIGATE	GS-100	N/A

For Radiated (below 1GHz):

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	Flash disk3.0	Transcend	JetFlash-703	N/A
B	PoE	PHIHONG	POE90U-BTA	N/A
C	10G Eth0+PoE PC	ASUS	S300TA	TX2-RTL8821CE
D	PSE Device	Juniper	AP36M	2AHBN-AP36
E	PSE Device PC	ASUS	S300TA	TX2-RTL8821CE
F	6G module	INTEL	BE200	PD9BE200NG
G	6G NB	DELL	E7240	N/A
H	5G NB	Lenovo	X260	N/A
I	2.4G NB	Lenovo	X260	N/A
J	2.4G Scan NB	Lenovo	X260	N/A
K	GPS Simulator	WELNAVIGATE	GS-100	N/A

For Radiated (above 1GHz):

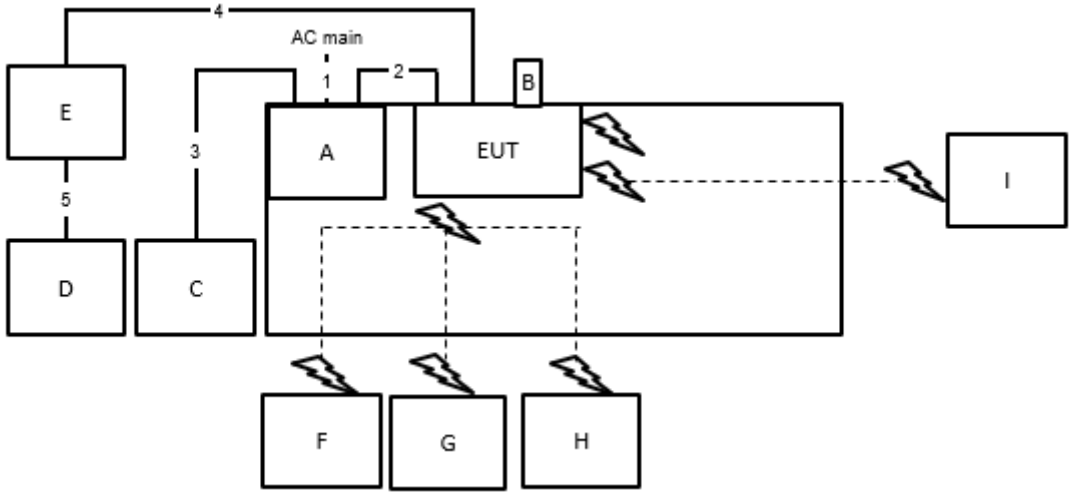
Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	NB	DELL	E4300	N/A
B	PoE	PHIHONG	POE90U-BTA	N/A

For RF Conducted:

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	NB	DELL	E4300	N/A
B	PoE	PHIHONG	POE90U-BTA	N/A

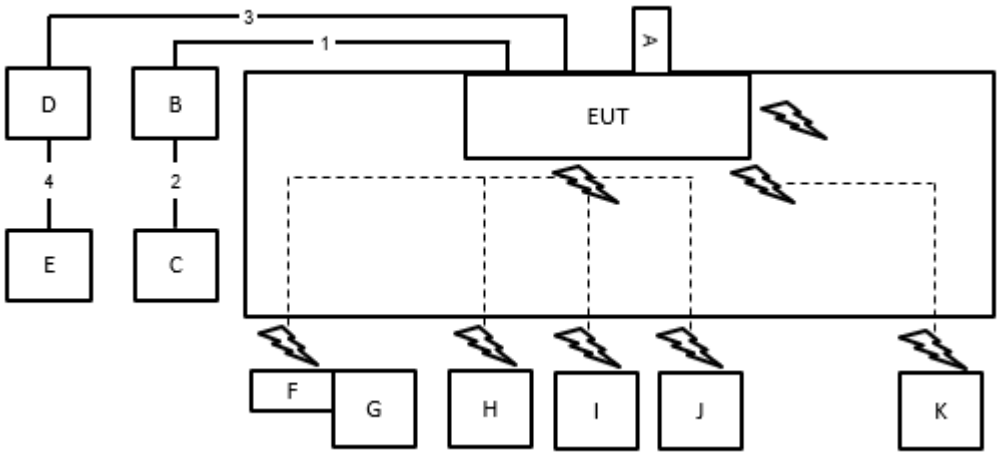
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



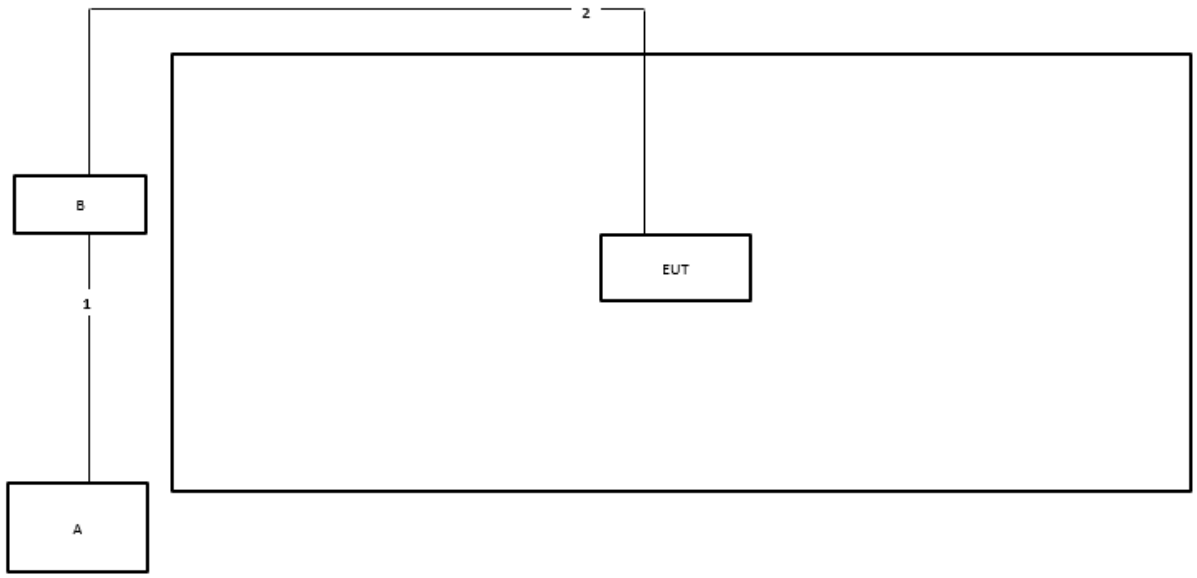
Item	Connection	Shielded	Length
1	Power cable	No	1.8m
2	Cat6 RJ-45 cable	No	1.5m
3	Cat6 RJ-45 cable	No	10m
4	Cat5e RJ-45 cable	No	10m
5	Cat5e RJ-45 cable	No	1.5m

Test Setup Diagram - Radiated Test < 1GHz



Item	Connection	Shielded	Length
1	Cat6 RJ-45 cable	No	10m
2	Cat6 RJ-45 cable	No	5m
3	Cat5e RJ-45 cable	No	10m
4	Cat5e RJ-45 cable	No	5m

Test Setup Diagram - Radiated Test > 1GHz



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

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

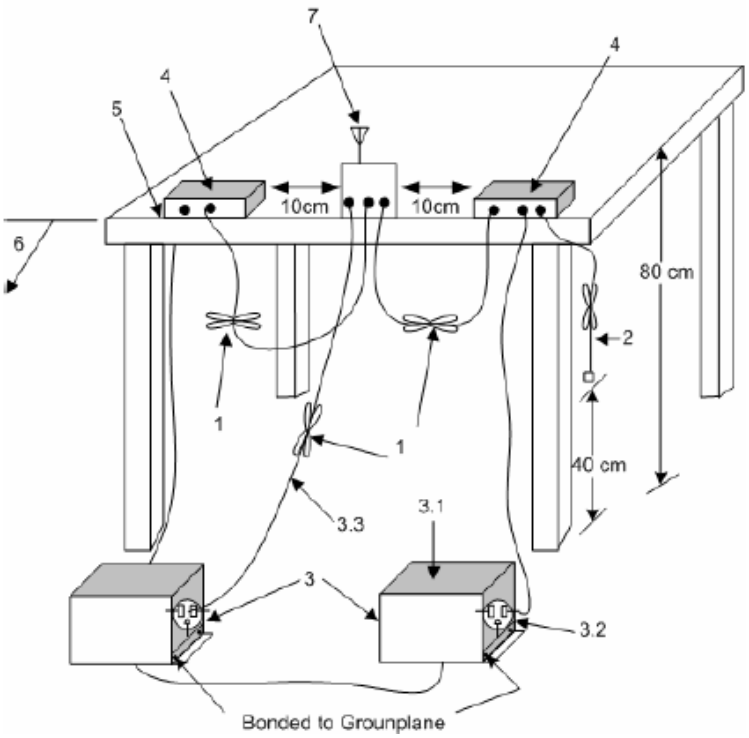
Refer a test equipment and calibration data table in this test report.

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

AC Power-line Conducted Emissions



1—Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long.
2—The I/O cables that are not connected to an accessory shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
3—EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50 Ω loads. LISN may be placed on top of, or immediately beneath, reference ground plane.
3.1—All other equipment powered from additional LISN(s).
3.2—A multiple-outlet strip may be used for multiple power cords of non-EUT equipment.
3.3—LISN at least 80 cm from nearest part of EUT chassis.
4—Non-EUT components of EUT system being tested.
5—Rear of EUT, including peripherals, shall all be aligned and flush with edge of tabletop.
6—Edge of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground plane.
7—Antenna can be integral or detachable. If detachable, then the antenna shall be attached for this test.

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 ≥ 500 kHz.

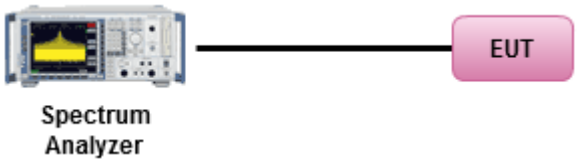
3.2.2 Measuring Instruments

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

Emission Bandwidth


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: $P_{total} = P_1 + P_2 + \ldots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$

3.3.4 Test Setup

Maximum Conducted Output Power (Power Meter)


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

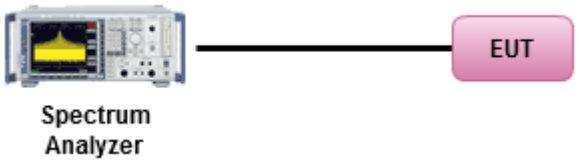
3.4.2 Measuring Instruments

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

Power Spectral Density


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.	

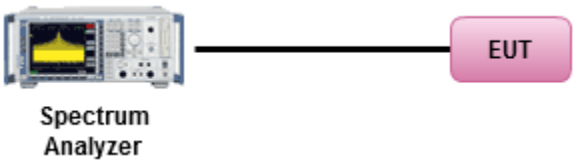
3.5.2 Measuring Instruments

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

Emissions in Non-restricted Frequency Bands


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.

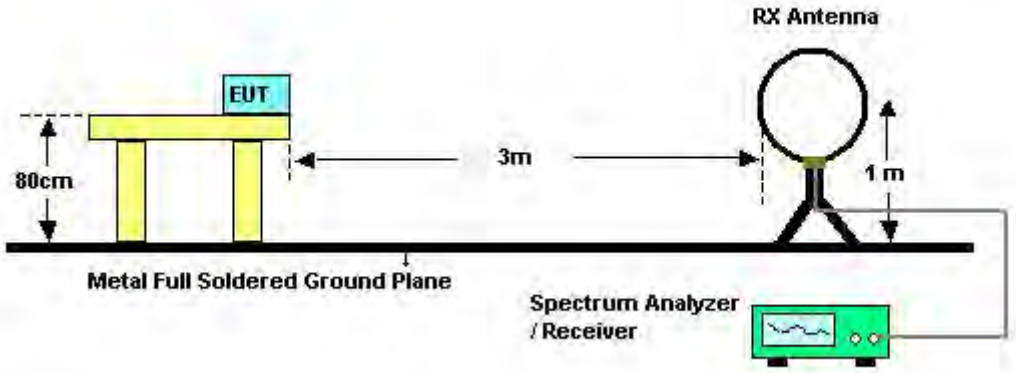
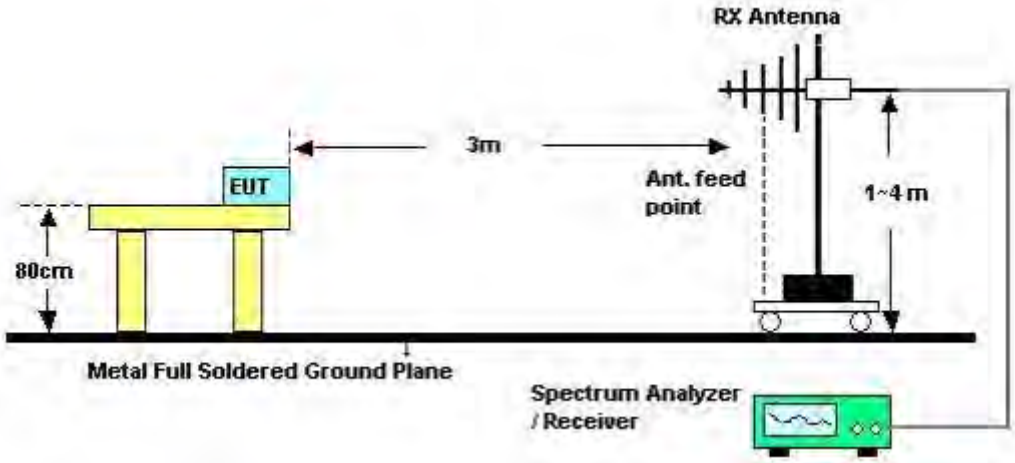
3.6.2 Measuring Instruments

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

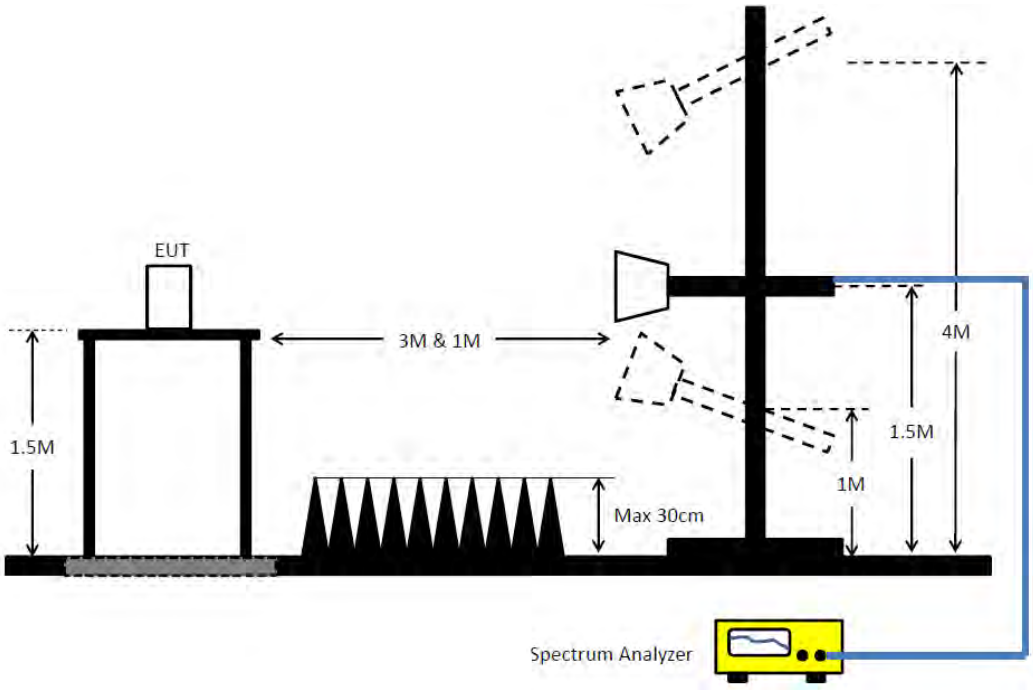
3.6.3 Test Procedures

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 ≥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≥1/T).
		☐	Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW ≥ 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

Emissions in Restricted Frequency Bands
9kHz ~30MHz

30MHz~1GHz


Above 1GHz



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. 29, 2025	Apr. 28, 2026	Conduction (CO02-CB)
LISN	Schwarzbeck	NSLK 8127	8127478	9kHz ~ 30MHz	Feb. 06, 2025	Feb. 05, 2026	Conduction (CO02-CB)
EMI Receiver	Agilent	N9038A	MY52260140	9kHz ~ 8.4GHz	May 14, 2025	May 13, 2026	Conduction (CO02-CB)
Pulse Limiter	Schwarzbeck	VTSD 9561F-N	00378	9kHz ~ 30MHz	Oct. 16, 2024	Oct. 15, 2025	Conduction (CO02-CB)
COND Cable	Woken	Cable	CO02	0.15MHz ~ 30MHz	Oct. 16, 2024	Oct. 15, 2025	Conduction (CO02-CB)
Test Software	SPORTON	SENSE-EMI	V5.11	150kHz-30MHz	N.C.R.	N.C.R.	Conduction (CO02-CB)
Loop Antenna	Teseq	HLA 6121	65417	9kHz - 30MHz	Oct. 17, 2024	Oct. 16, 2025	Radiation (10CH01-CB)
10m Semi Anechoic Chamber NSA	TDK	SAC-10M	10CH01-CB	30MHz~1GHz 10m,3m	Jan. 15, 2025	Jan. 14, 2026	Radiation (10CH01-CB)
Amplifier	Agilent	8447D	2944A10783	9kHz ~ 1.3GHz	Mar. 08, 2025	Mar. 07, 2026	Radiation (10CH01-CB)
Amplifier	Agilent	8447D	2944A10784	9kHz ~ 1.3GHz	Mar. 08, 2025	Mar. 07, 2026	Radiation (10CH01-CB)
Low Cable	Woken	SUCOFLEX 104	low cable-01	25MHz ~ 1GHz	Oct. 16, 2024	Oct. 15, 2025	Radiation (10CH01-CB)
Low Cable	Woken	SUCOFLEX 104	low cable-02	25MHz ~ 1GHz	Oct. 16, 2024	Oct. 15, 2025	Radiation (10CH01-CB)
Bilog Ant & 6dB Attenuator	SCHWARZBECK & EMCI	VULB 9168 & N-6-06	1469 & AT-N06021	30MHz ~ 1GHz	Jan. 09, 2025	Jan. 08, 2026	Radiation (10CH01-CB)
Amplifier	EM	EM101	060703	10MHz ~ 1GHz	Oct. 17, 2024	Oct. 16, 2025	Radiation (10CH01-CB)
High Cable	TITAN	T318E	High cable01	30MHz ~ 18GHz	Feb. 04, 2025	Feb. 03, 2026	Radiation (10CH01-CB)
EMI Receiver	Agilent	N9038A	MY52260140	9kHz ~ 8.4GHz	May 14, 2025	May 13, 2026	Radiation (10CH01-CB)
Spectrum Analyzer	Rohde& Schwarz	FSV30	101026	9kHz ~ 30GHz	Apr. 16, 2025	Apr. 15, 2026	Radiation (10CH01-CB)
Test Software	SPORTON	SENSE-EMI	V5.11	30MHz-40GHz	N.C.R.	N.C.R.	Radiation (10CH01-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH03-CB	1GHz ~18GHz 3m	May 02, 2025	May 01, 2026	Radiation (03CH03-CB)
Horn Antenna	ETS·Lindgren	3115	6821	750MHz~ 18GHz	Feb. 20, 2025	Feb. 19, 2026	Radiation (03CH03-CB)

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 23, 2024	Sep. 22, 2025	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8449B	3008A02097	1GHz ~ 26.5GHz	Jun. 29, 2024	Jun. 28, 2025	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8449B	3008A02097	1GHz ~ 26.5GHz	Jun. 28, 2025	Jun. 27, 2026	Radiation (03CH03-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 25, 2024	Nov. 24, 2025	Radiation (03CH03-CB)
Spectrum Analyzer	R&S	FSP40	100019	9kHz ~ 40GHz	Jul. 11, 2024	Jul. 10, 2025	Radiation (03CH03-CB)
Signal Analyzer	R&S	FSV40	101903	9kHz ~ 40GHz	Jun. 10, 2025	Jun. 09, 2026	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-20+29	1GHz ~ 18GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-29	1GHz ~ 18GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Apr. 30, 2025	Apr. 29, 2026	Radiation (03CH03-CB)
Test Software	SPORTON	SENSE-15247 _DTS	V5.11.25	2.4GHz-2.4835G Hz	N.C.R.	N.C.R.	Radiation (03CH03-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH04-CB	1GHz ~18GHz 3m	Feb. 21, 2025	Feb. 20, 2026	Radiation (03CH04-CB)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120D-01816	1GHz~18GHz	Dec. 20, 2024	Dec. 19, 2025	Radiation (03CH04-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 23, 2024	Sep. 22, 2025	Radiation (03CH04-CB)
Pre-Amplifier	SGH	SGH5265	20211115-1	1~ 26.5GHz	Jan. 16, 2025	Jan. 15, 2026	Radiation (03CH04-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 25, 2024	Nov. 24, 2025	Radiation (03CH04-CB)
Spectrum Analyzer	R&S	FSP40	100142	9kHz~40GHz	Mar. 24, 2025	Mar. 23, 2026	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21	1GHz - 18GHz	Apr. 25, 2025	Apr. 24, 2026	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21+67	1GHz - 18GHz	Apr. 25, 2025	Apr. 24, 2026	Radiation (03CH04-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Apr. 30, 2025	Apr. 29, 2026	Radiation (03CH04-CB)
Test Software	SPORTON	SENSE-15247 _DTS	V5.11.25	2.4GHz-2.4835G Hz	N.C.R.	N.C.R.	Radiation (03CH04-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH05-CB	1GHz ~18GHz 3m	Sep. 28, 2024	Sep. 27, 2025	Radiation (03CH05-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120 D-1291	1GHz~18GHz	Jun. 06, 2025	Jun. 05, 2026	Radiation (03CH05-CB)

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 23, 2024	Sep. 22, 2025	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC12630SE	980287	1GHz – 26.5GHz	Jun. 29, 2024	Jun. 28, 2025	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC12630SE	980287	1GHz – 26.5GHz	Jun. 28, 2025	Jun. 27, 2026	Radiation (03CH05-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 25, 2024	Nov. 24, 2025	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Apr. 21, 2025	Apr. 20, 2026	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-28	1GHz~18GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-04+28	1GHz~18GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH05-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Apr. 30, 2025	Apr. 29, 2026	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE-15247 _DTS	V5.11.25	2.4GHz-2.4835G Hz	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)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	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	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 25, 2024	Nov. 24, 2025	Radiation (03CH06-CB)
Signal analyzer	R&S	FSV3044	101667	9kHz~44GHz	Aug. 20, 2024	Aug. 19, 2025	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-05+68	1GHz~18GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH06-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Apr. 30, 2025	Apr. 29, 2026	Radiation (03CH06-CB)
Test Software	SPORTON	SENSE-15247 _DTS	V5.11.25	2.4GHz-2.4835G Hz	N.C.R.	N.C.R.	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSV40	101027	9kHz~40GHz	Aug. 27, 2024	Aug. 26, 2025	Conducted (TH02-CB)
Power Sensor	Anritsu	MA2411B	1126203	300MHz~ 40GHz	Oct. 18, 2024	Oct. 17, 2025	Conducted (TH02-CB)
Power Meter	Anritsu	ML2495A	1210004	300MHz~ 40GHz	Oct. 18, 2024	Oct. 17, 2025	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-01	1 GHz – 18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-02	1 GHz – 18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH02-CB)

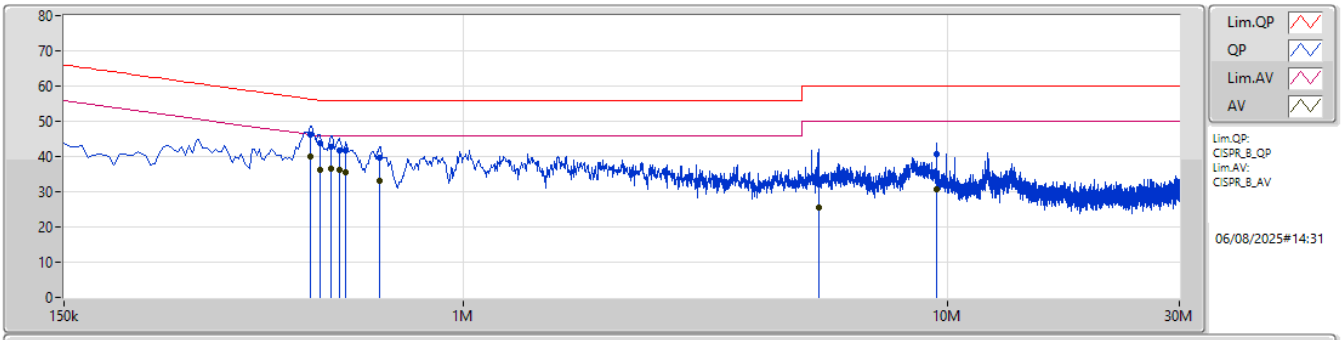
Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-03	1 GHz – 18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-04	1 GHz – 18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-05	1 GHz – 18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH02-CB)
Switch	SPTCB	SP-SWI	SWI-02	1–18 GHz	Oct. 02, 2024	Oct. 01, 2025	Conducted (TH02-CB)
Test Software	SPORTON	SENSE-15247 _DTS	V5.11.25	2.4GHz-2.4835GHz	N.C.R.	N.C.R.	Conducted (TH02-CB)

Note: Calibration Interval of instruments listed above is one year.
NCR means Non-Calibration required.

Summary

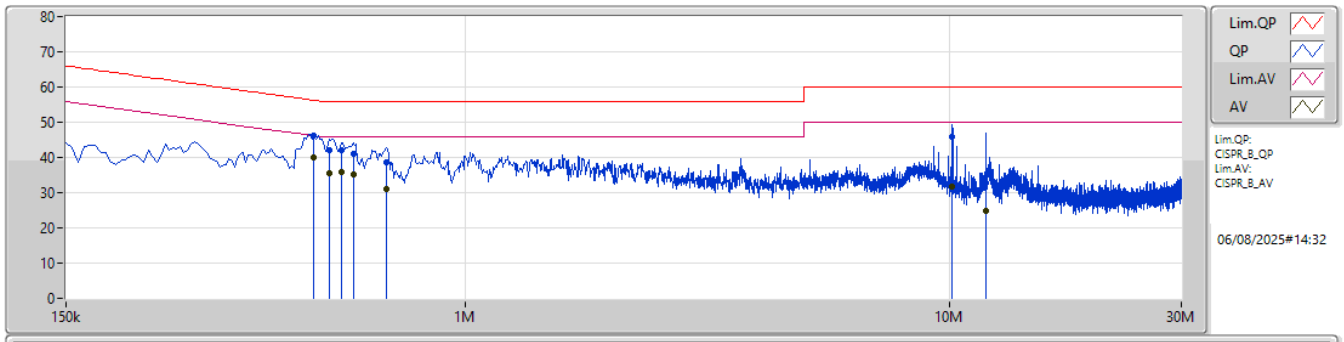
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 12	Pass	AV	487.5k	40.03	46.21	-6.18	Neutral

Mode 12



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	483k	46.14	56.29	-10.15	10.13	Line	-	36.01	0.06	0.04	10.03
AV	483k	40.06	46.29	-6.23	10.13	Line	"Worst"	29.93	0.06	0.04	10.03
QP	505.5k	43.68	56.00	-12.32	10.12	Line	-	33.56	0.06	0.03	10.03
AV	505.5k	36.23	46.00	-9.77	10.12	Line	-	26.11	0.06	0.03	10.03
QP	532.5k	42.91	56.00	-13.09	10.12	Line	-	32.79	0.06	0.03	10.03
AV	532.5k	36.49	46.00	-9.51	10.12	Line	-	26.37	0.06	0.03	10.03
QP	555k	41.86	56.00	-14.14	10.12	Line	-	31.74	0.06	0.03	10.03
AV	555k	36.07	46.00	-9.93	10.12	Line	-	25.95	0.06	0.03	10.03
QP	573k	41.65	56.00	-14.35	10.12	Line	-	31.53	0.06	0.03	10.03
AV	573k	35.63	46.00	-10.37	10.12	Line	-	25.51	0.06	0.03	10.03
QP	672k	39.53	56.00	-16.47	10.13	Line	-	29.40	0.07	0.03	10.03
AV	672k	33.20	46.00	-12.80	10.13	Line	-	23.07	0.07	0.03	10.03
QP	5.402M	32.18	60.00	-27.82	10.23	Line	-	21.95	0.16	0.03	10.04
AV	5.402M	25.58	50.00	-24.42	10.23	Line	-	15.35	0.16	0.03	10.04
QP	9.483M	40.65	60.00	-19.35	10.27	Line	-	30.38	0.22	0.04	10.01
AV	9.483M	30.61	50.00	-19.39	10.27	Line	-	20.34	0.22	0.04	10.01

Mode 12



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	487.5k	46.37	56.21	-9.84	10.14	Neutral	-	36.23	0.07	0.04	10.03
AV	487.5k	40.03	46.21	-6.18	10.14	Neutral	"Worst"	29.89	0.07	0.04	10.03
QP	523.5k	42.22	56.00	-13.78	10.13	Neutral	-	32.09	0.07	0.03	10.03
AV	523.5k	35.56	46.00	-10.44	10.13	Neutral	-	25.43	0.07	0.03	10.03
QP	555k	41.97	56.00	-14.03	10.13	Neutral	-	31.84	0.07	0.03	10.03
AV	555k	36.00	46.00	-10.00	10.13	Neutral	-	25.87	0.07	0.03	10.03
QP	586.5k	41.16	56.00	-14.84	10.13	Neutral	-	31.03	0.07	0.03	10.03
AV	586.5k	35.17	46.00	-10.83	10.13	Neutral	-	25.04	0.07	0.03	10.03
QP	685.5k	38.58	56.00	-17.42	10.14	Neutral	-	28.44	0.08	0.03	10.03
AV	685.5k	31.14	46.00	-14.86	10.14	Neutral	-	21.00	0.08	0.03	10.03
QP	10.118M	45.92	60.00	-14.08	10.26	Neutral	-	35.66	0.21	0.04	10.01
AV	10.118M	31.87	50.00	-18.13	10.26	Neutral	-	21.61	0.21	0.04	10.01
QP	11.868M	32.85	60.00	-27.15	10.28	Neutral	-	22.57	0.22	0.04	10.02
AV	11.868M	24.85	50.00	-25.15	10.28	Neutral	-	14.57	0.22	0.04	10.02

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(Zigbee&Thread)_1TX	1.594M	2.357M	2M36G1D	1.478M	2.321M

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

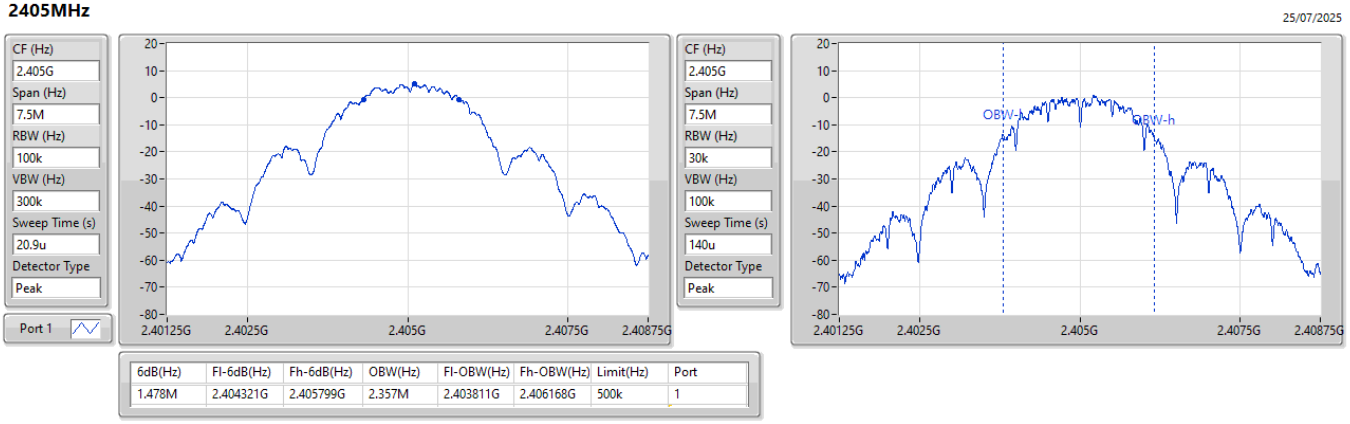
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.15.4(Zigbee&Thread)_1TX	-	-	-	-
2405MHz	Pass	500k	1.478M	2.357M
2440MHz	Pass	500k	1.594M	2.321M
2480MHz	Pass	500k	1.56M	2.327M

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

2.4-2.4835GHz_802.15.4(Zigbee&Thread)_1TX **EBW**

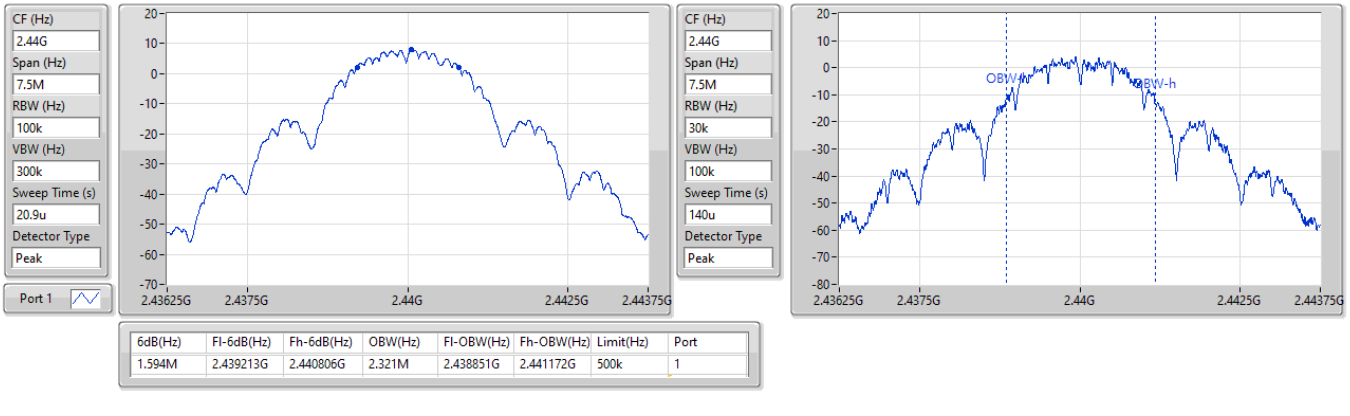
2405MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.478M	2.404321G	2.405799G	2.357M	2.403811G	2.406168G	500k	1

2.4-2.4835GHz_802.15.4(Zigbee&Thread)_1TX **EBW**

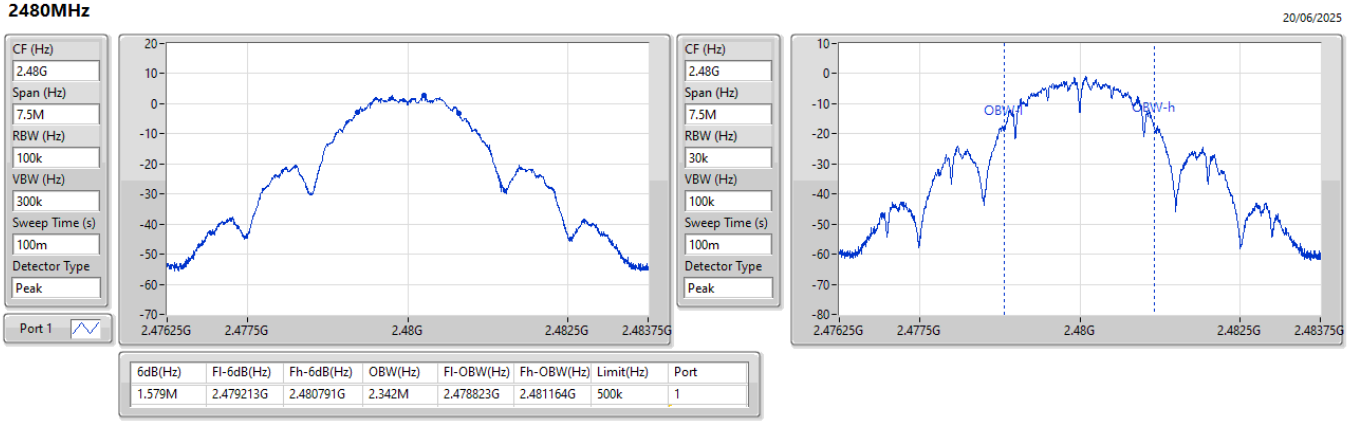
2440MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.594M	2.439213G	2.440806G	2.321M	2.438851G	2.441172G	500k	1

2.4-2.4835GHz_802.15.4(Zigbee&thread) **EBW**

2480MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.579M	2.479213G	2.480791G	2.342M	2.478823G	2.481164G	500k	1

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(Zigbee&thread)	1.613M	2.35M	2M35G1D	1.515M	2.343M

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

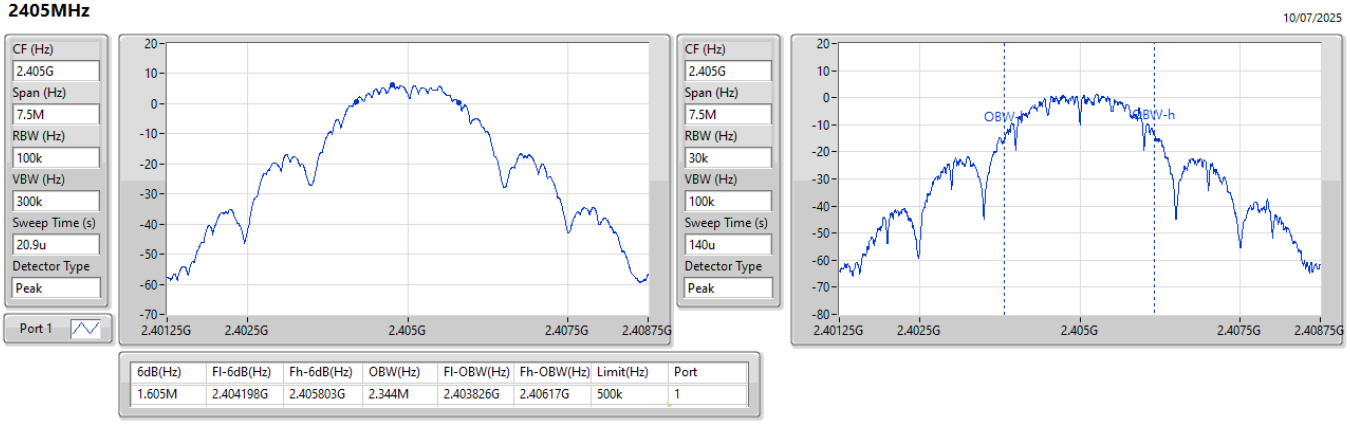
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.15.4(Zigbee&thread)	-	-	-	-
2405MHz	Pass	500k	1.605M	2.344M
2440MHz	Pass	500k	1.613M	2.343M
2480MHz	Pass	500k	1.515M	2.35M

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

2.4-2.4835GHz_802.15.4(Zigbee&thread) **EBW**

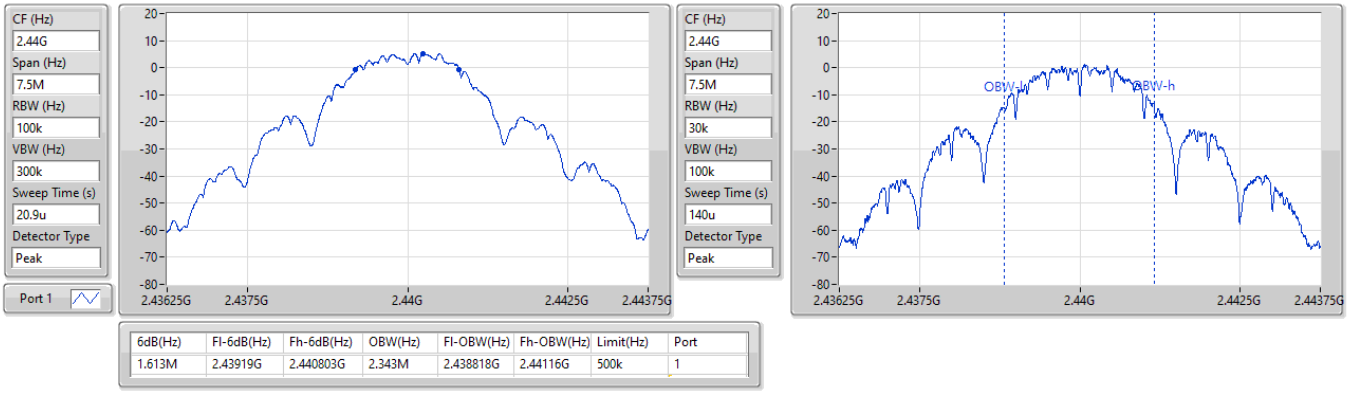
2405MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.605M	2.404198G	2.405803G	2.344M	2.403826G	2.40617G	500k	1

2.4-2.4835GHz_802.15.4(Zigbee&thread) **EBW**

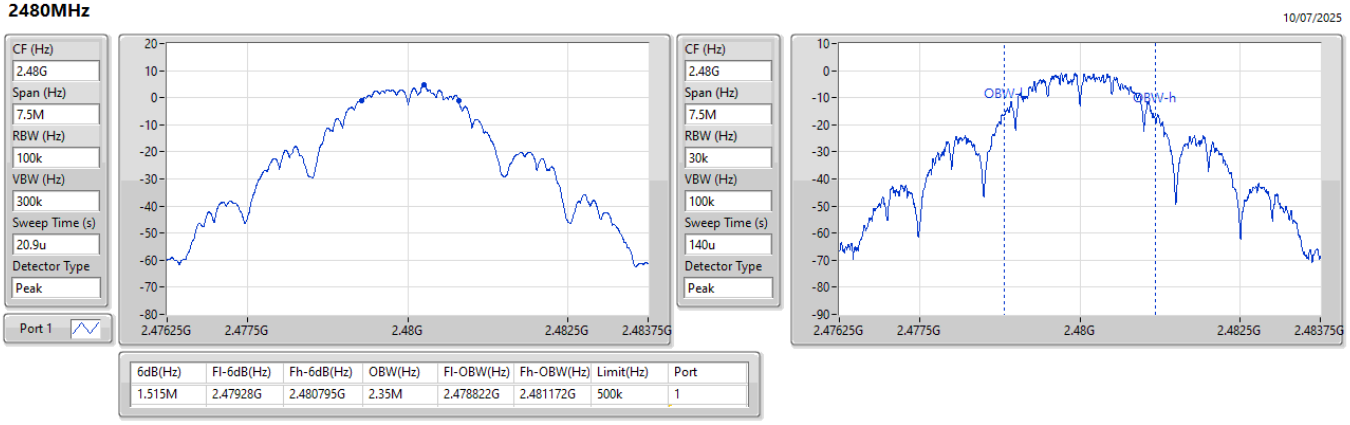
2440MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.613M	2.43919G	2.440803G	2.343M	2.438818G	2.44116G	500k	1

2.4-2.4835GHz_802.15.4(Zigbee&thread) **EBW**

2480MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.515M	2.47928G	2.480795G	2.35M	2.478822G	2.481172G	500k	1

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.15.4(Zigbee&Thread)_1TX	12.70	0.01862

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.15.4(Zigbee&Thread)_1TX	-	-	-	-	-
2405MHz	Pass	4.30	10.02	10.02	30.00
2440MHz	Pass	4.30	12.70	12.70	30.00
2475MHz	Pass	4.30	12.69	12.69	30.00
2480MHz	Pass	4.30	9.29	9.29	30.00

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

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.15.4(Zigbee&thread)	11.38	0.01374

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.15.4(Zigbee&thread)	-	-	-	-	-
2405MHz	Pass	6.60	11.38	11.38	29.40
2440MHz	Pass	6.60	10.42	10.42	29.40
2480MHz	Pass	6.60	8.51	8.51	29.40

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(Zigbee&Thread)_1TX	-4.13

RBW = 3kHz;

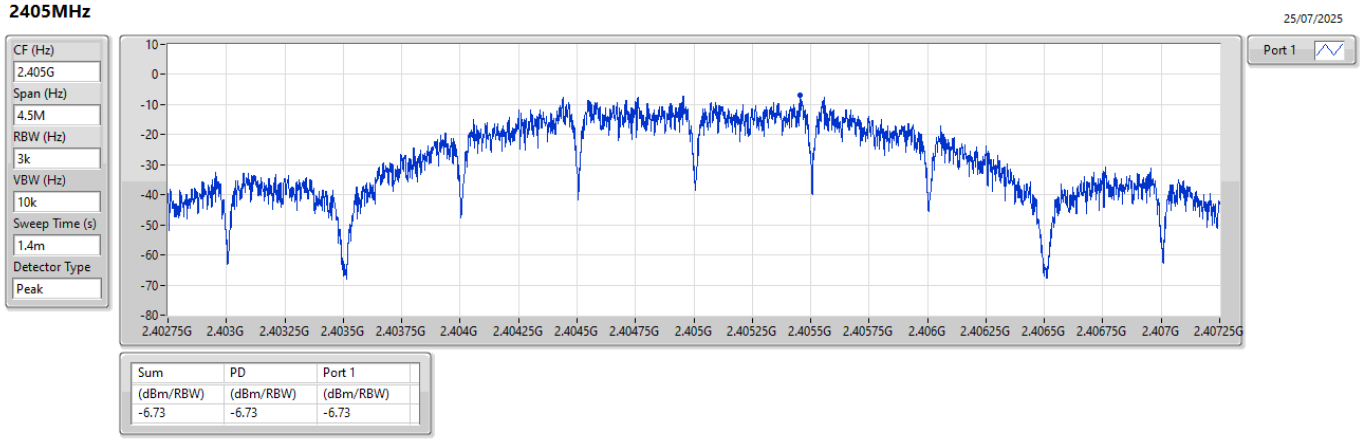
Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.15.4(Zigbee&Thread)_1TX	-	-	-	-	-
2405MHz	Pass	4.30	-6.73	-6.73	8.00
2440MHz	Pass	4.30	-4.13	-4.13	8.00
2480MHz	Pass	4.30	-6.44	-6.44	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(Zigbee&Thread)_1TX **PSD**

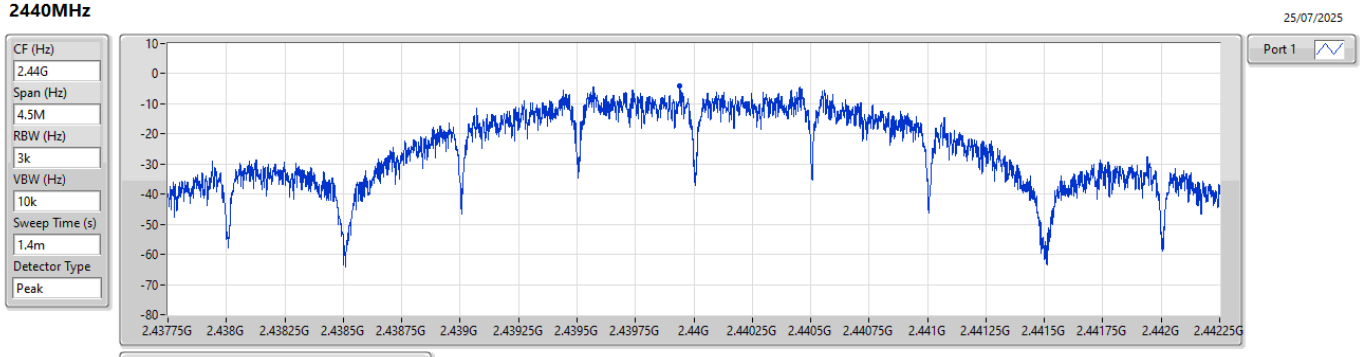
2405MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.73	-6.73	-6.73

2.4-2.4835GHz_802.15.4(Zigbee&Thread)_1TX **PSD**

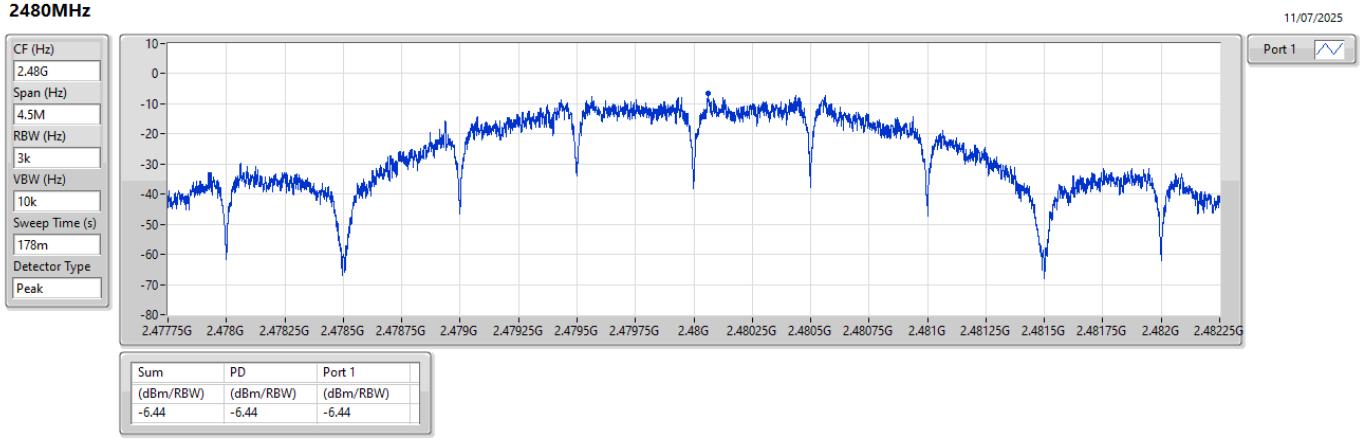
2440MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-4.13	-4.13	-4.13

2.4-2.4835GHz_802.15.4(Zigbee&thread) PSD

2480MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.44	-6.44	-6.44

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.15.4(Zigbee&thread)	-5.45

RBW = 3kHz;

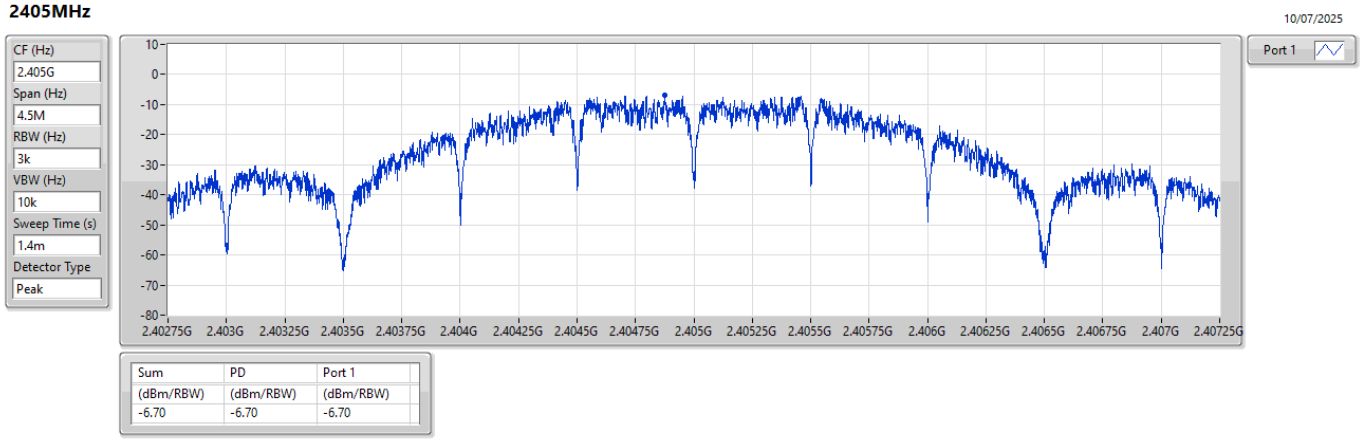
Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.15.4(Zigbee&thread)	-	-	-	-	-
2405MHz	Pass	6.60	-6.70	-6.70	7.40
2440MHz	Pass	6.60	-5.45	-5.45	7.40
2480MHz	Pass	6.60	-7.80	-7.80	7.40

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.

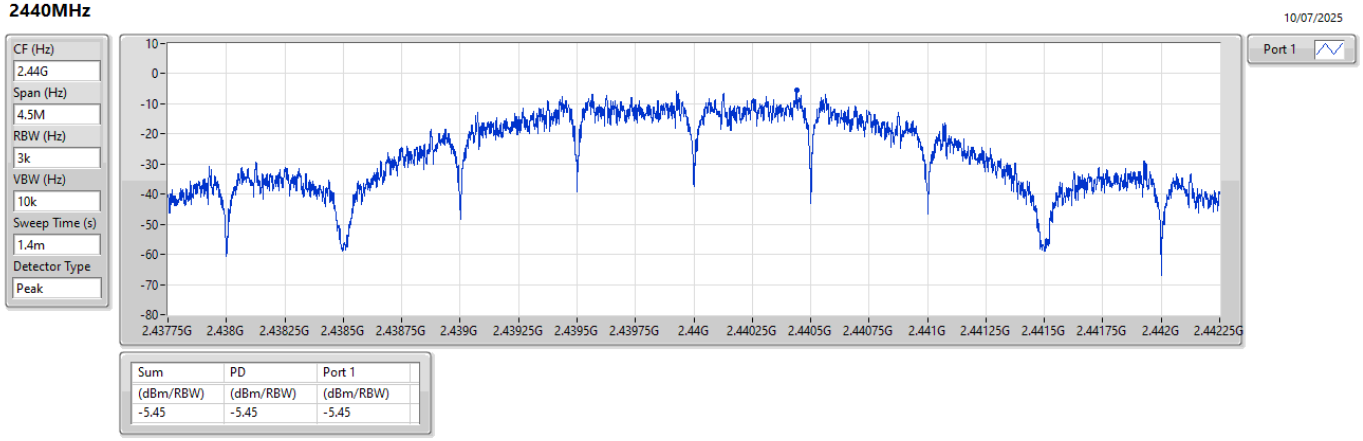
2.4-2.4835GHz_802.15.4(Zigbee&thread) **PSD**

2405MHz



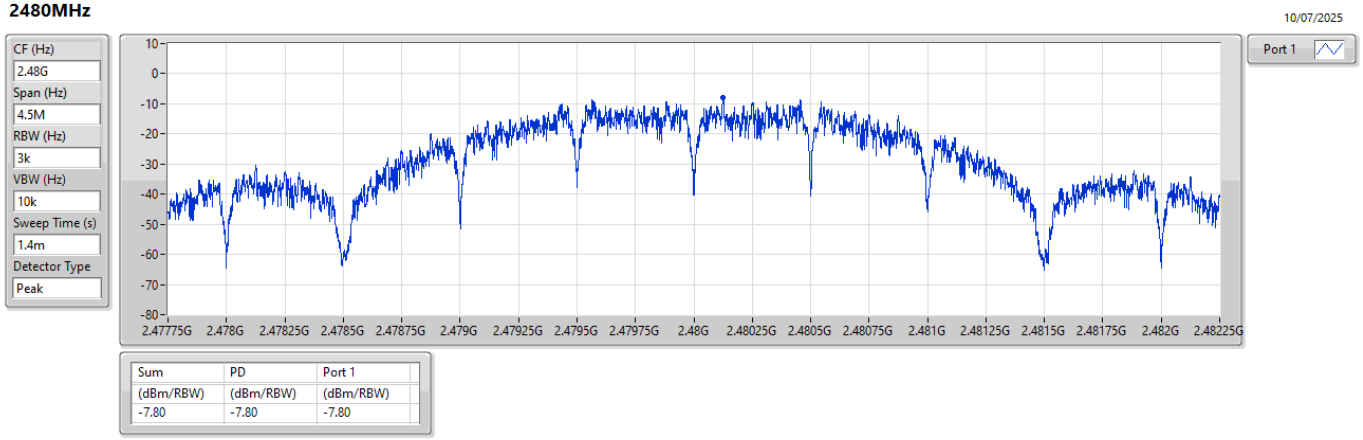
2.4-2.4835GHz_802.15.4(Zigbee&thread) **PSD**

2440MHz



2.4-2.4835GHz_802.15.4(Zigbee&thread) PSD

2480MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.80	-7.80	-7.80

Summary

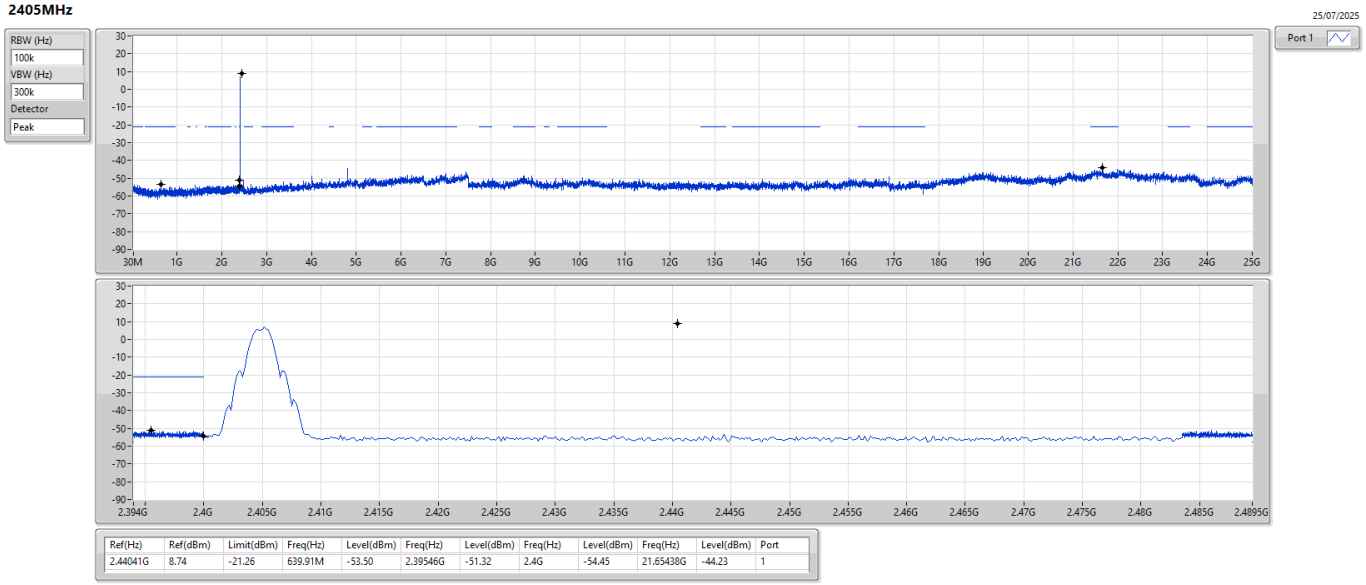
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-
802.15.4(Zigbee&Thread)_1TX	Pass	2.44041G	8.74	-21.26	1.77345G	-53.77	2.39936G	-51.23	2.4G	-56.03	21.47429G	-43.46	1

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(Zigbee&Thread)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2405MHz	Pass	2.44041G	8.74	-21.26	639.91M	-53.50	2.39546G	-51.32	2.4G	-54.45	21.65438G	-44.23	1
2440MHz	Pass	2.44041G	8.74	-21.26	1.77345G	-53.77	2.39936G	-51.23	2.4G	-56.03	21.47429G	-43.46	1
2480MHz	Pass	2.44041G	8.74	-21.26	45.37M	-53.09	2.39598G	-51.41	2.4G	-55.63	21.48273G	-44.26	1

2.4-2.4835GHz_802.15.4(Zigbee&Thread)_1TX CSENdB

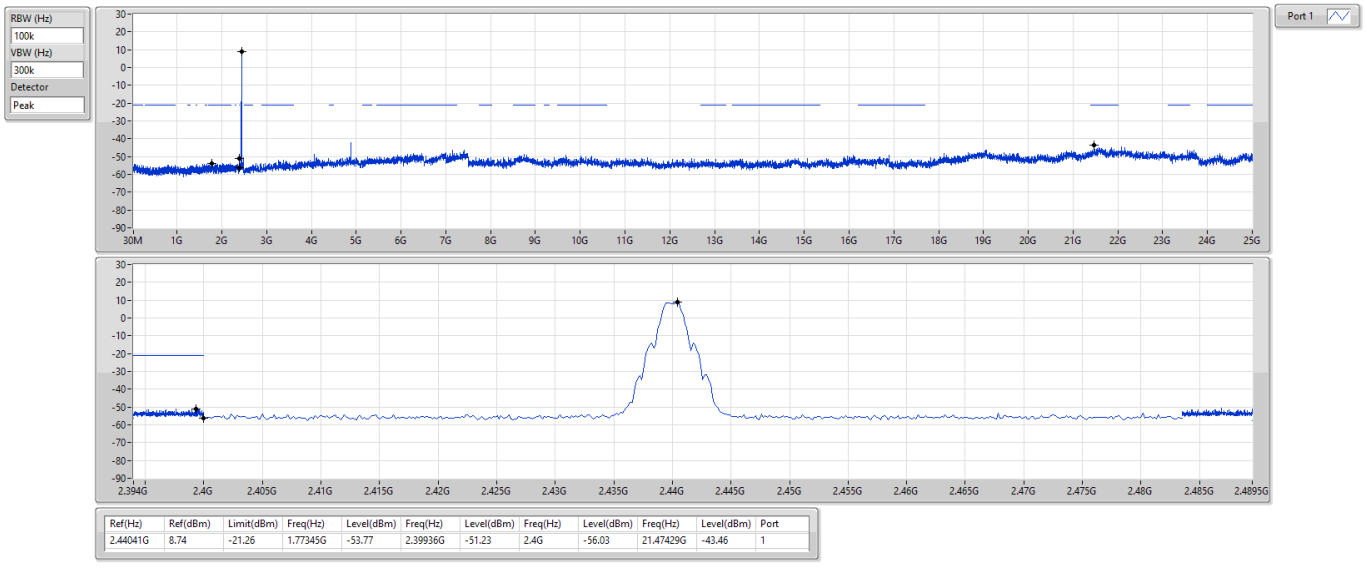
2405MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44041G	8.74	-21.26	639.91M	-53.50	2.39546G	-51.32	2.4G	-54.45	21.65438G	-44.23	1

2.4-2.4835GHz_802.15.4(Zigbee&Thread)_1TX CSENdB

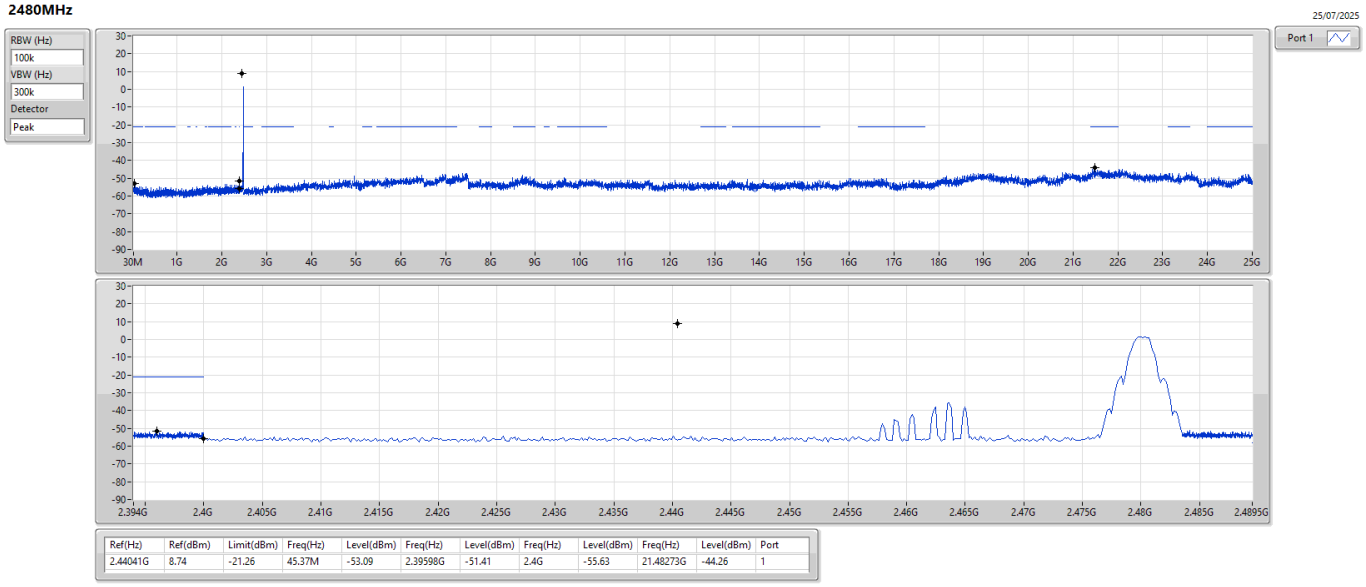
2440MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44041G	8.74	-21.26	1.77345G	-53.77	2.39936G	-51.23	2.4G	-56.03	21.47429G	-43.46	1

2.4-2.4835GHz_802.15.4(Zigbee&Thread)_1TX CSENdB

2480MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44041G	8.74	-21.26	45.37M	-53.09	2.39598G	-51.41	2.4G	-55.63	21.48273G	-44.26	1

Summary

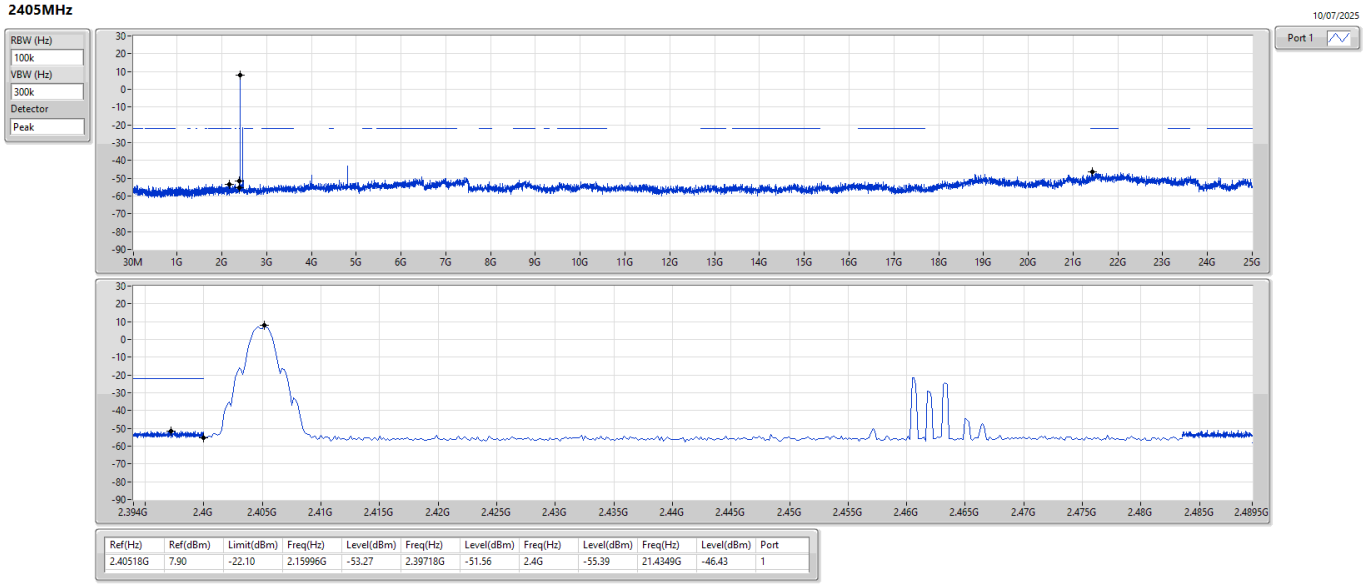
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-
802.15.4(Zigbee&thread)	Pass	2.40518G	7.90	-22.10	2.1907G	-53.61	2.39946G	-50.39	2.4G	-55.96	21.58122G	-46.36	1

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(Zigbee&thread)	-	-	-	-	-	-	-	-	-	-	-	-	-
2405MHz	Pass	2.40518G	7.90	-22.10	2.15996G	-53.27	2.39718G	-51.56	2.4G	-55.39	21.4349G	-46.43	1
2440MHz	Pass	2.40518G	7.90	-22.10	2.1907G	-53.61	2.39946G	-50.39	2.4G	-55.96	21.58122G	-46.36	1
2480MHz	Pass	2.40518G	7.90	-22.10	2.0985G	-53.99	2.39798G	-50.63	2.4G	-56.13	21.58685G	-46.38	1

2.4-2.4835GHz_802.15.4(Zigbee&thread) CSENdB

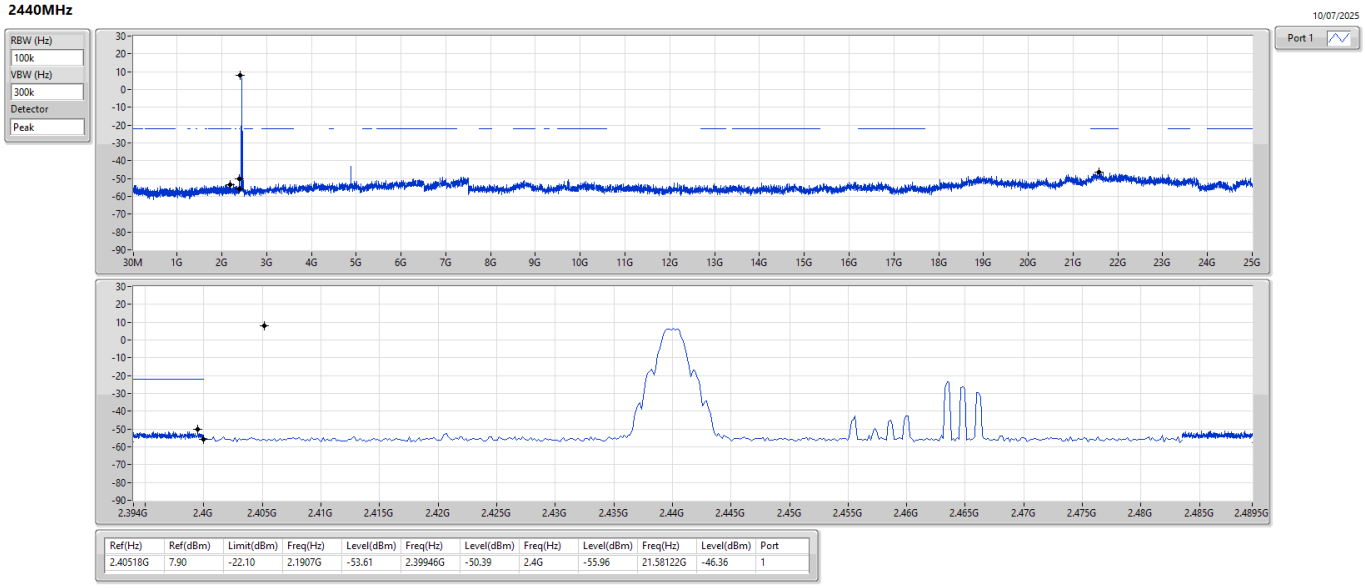
2405MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.40518G	7.90	-22.10	2.15996G	-53.27	2.39718G	-51.56	2.4G	-55.39	21.4349G	-46.43	1

2.4-2.4835GHz_802.15.4(Zigbee&thread) CSENdB

2440MHz

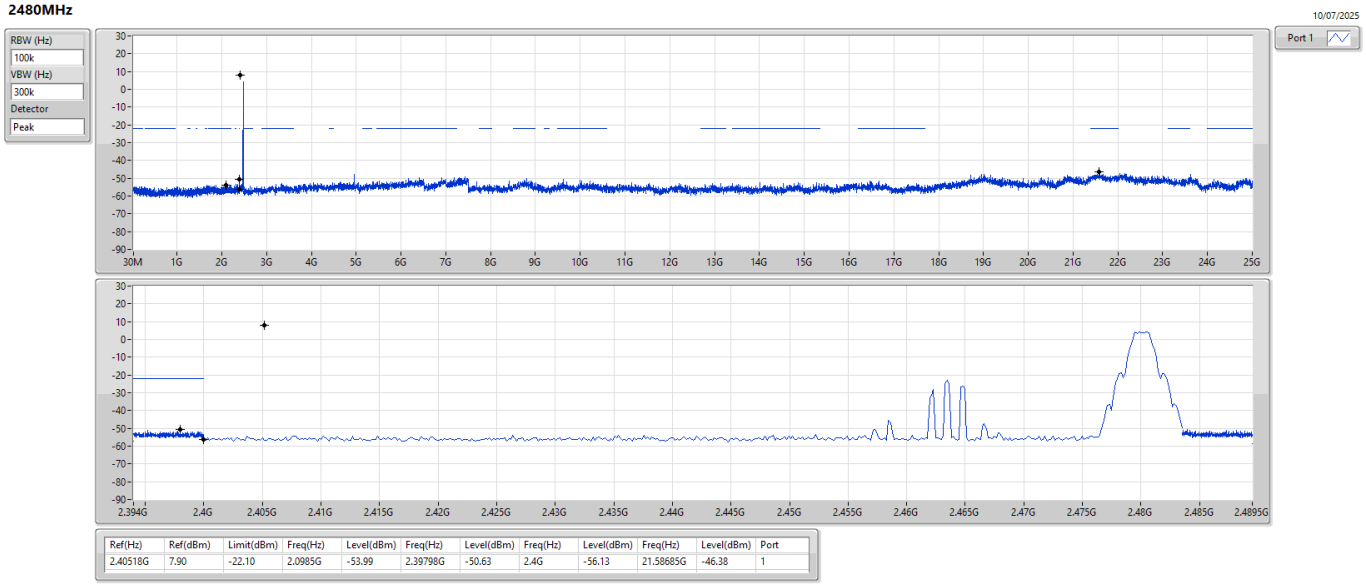


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.40518G	7.90	-22.10	2.1907G	-53.61	2.39946G	-50.39	2.4G	-55.96	21.58122G	-46.36	1

2.4-2.4835GHz_802.15.4(Zigbee&thread)

CSENdB

2480MHz

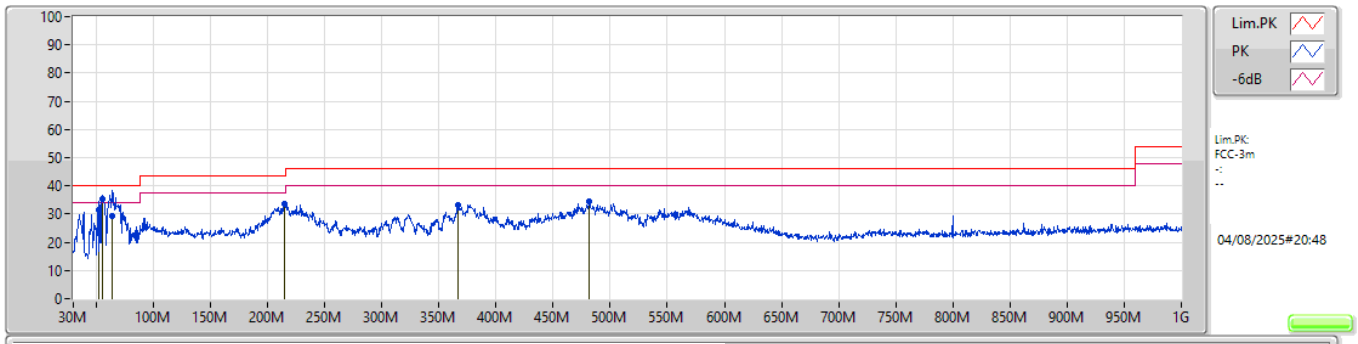


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.40518G	7.90	-22.10	2.0985G	-53.99	2.39798G	-50.63	2.4G	-56.13	21.58685G	-46.38	1

Summary

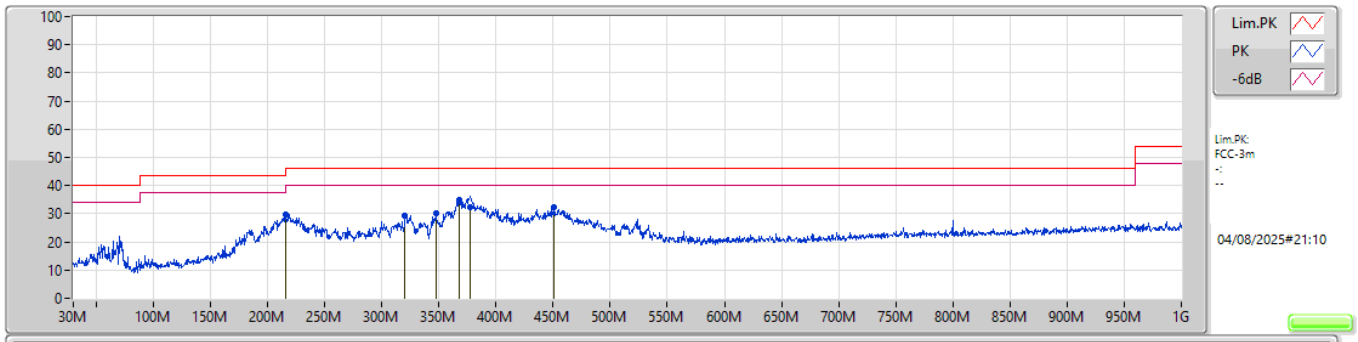
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 15	Pass	QP	55.22M	35.51	40.00	-4.49	Vertical

Mode 15



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
QP	52.8M	31.52	40.00	-8.48	-34.23	3	Vertical	66	1.00	-	65.75	19.90	0.80	54.93
QP	55.22M	35.51	40.00	-4.49	-34.36	3	Vertical	138	1.00	"Worst"	69.87	19.76	0.83	54.95
QP	64.44M	29.23	40.00	-10.77	-35.47	3	Vertical	233	2.00	"	64.70	18.35	0.89	54.71
PK	214.79M	33.50	43.50	-10.00	-36.88	3	Vertical	25	2.00	-	70.38	15.71	1.79	54.38
PK	366.59M	33.37	46.00	-12.63	-30.58	3	Vertical	79	2.00	-	63.95	20.87	2.54	53.99
PK	482.02M	34.49	46.00	-11.51	-27.66	3	Vertical	142	1.00	-	62.15	23.27	2.99	53.92

Mode 15



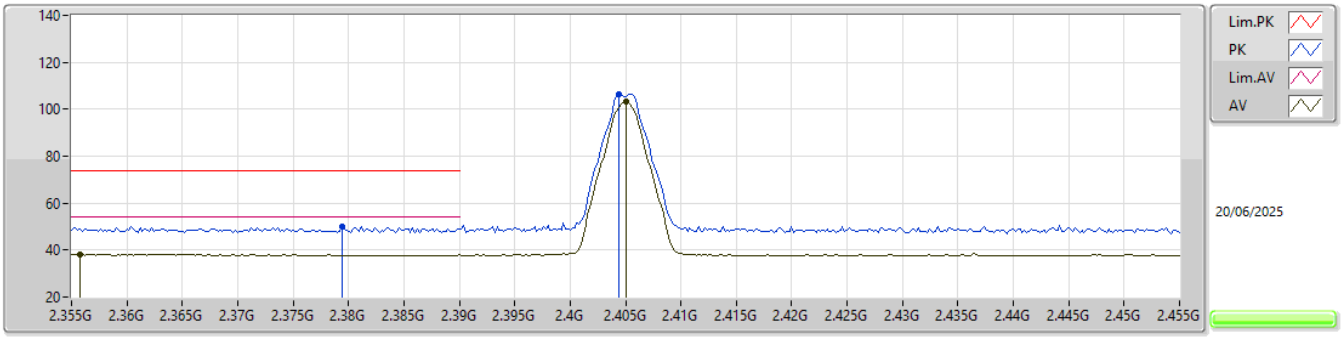
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	215.76M	29.55	43.50	-13.95	-36.85	3	Horizontal	56	1.00	-	66.40	15.73	1.80	54.38
PK	320.52M	29.12	46.00	-16.88	-31.77	3	Horizontal	156	2.00	-	60.89	19.89	2.35	54.01
PK	347.68M	30.35	46.00	-15.65	-30.91	3	Horizontal	128	2.00	-	61.26	20.22	2.49	53.62
PK	367.56M	34.82	46.00	-11.18	-30.55	3	Horizontal	43	1.00	"Worst"	65.37	20.92	2.54	54.01
QP	377.26M	32.30	46.00	-13.70	-30.41	3	Horizontal	66	1.00	"	62.71	21.27	2.57	54.25
PK	450.98M	32.14	46.00	-13.86	-28.42	3	Horizontal	90	1.00	-	60.56	22.82	2.96	54.20

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(Zigbee&thread)_3MHz_Nss1_1TX	Pass	AV	2.4835G	53.85	54.00	-0.15	3	Vertical	133	2.16	-

2.4-2.4835GHz_802.15.4(Zigbee&thread)_3MHz_Nss1_1TX

2405MHz_TX

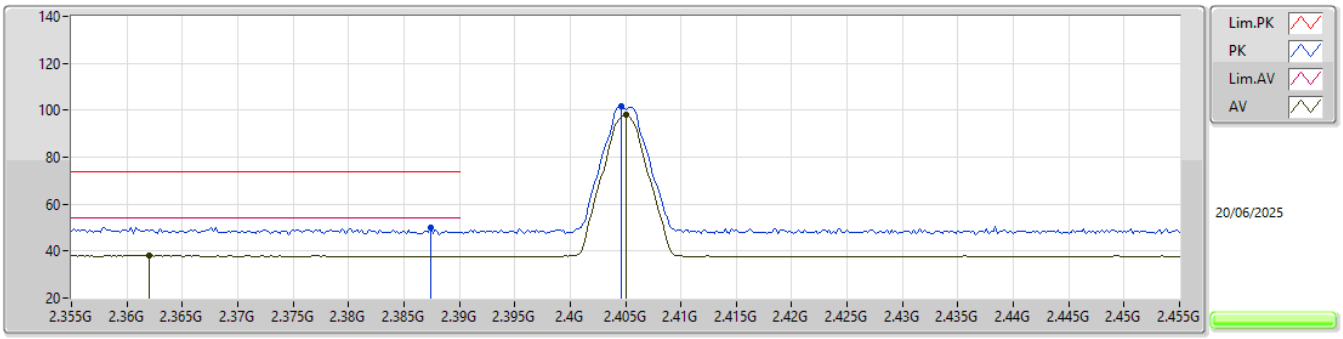


EUT Z_1TX
Setting 11
06-H-S-2-10

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	2.3794G	50.17	74.00	-23.83	50.98	3	Vertical	145	2.53	-	27.61	4.62	33.04
AV	2.3558G	38.13	54.00	-15.87	38.76	3	Vertical	145	2.53	-	27.80	4.60	33.03
PK	2.4044G	106.63	Inf	-Inf	107.44	3	Vertical	145	2.53	-	27.60	4.64	33.05
AV	2.405G	103.07	Inf	-Inf	103.88	3	Vertical	145	2.53	-	27.60	4.64	33.05

2.4-2.4835GHz_802.15.4(Zigbee&thread)_3MHz_Nss1_1TX

2405MHz_TX

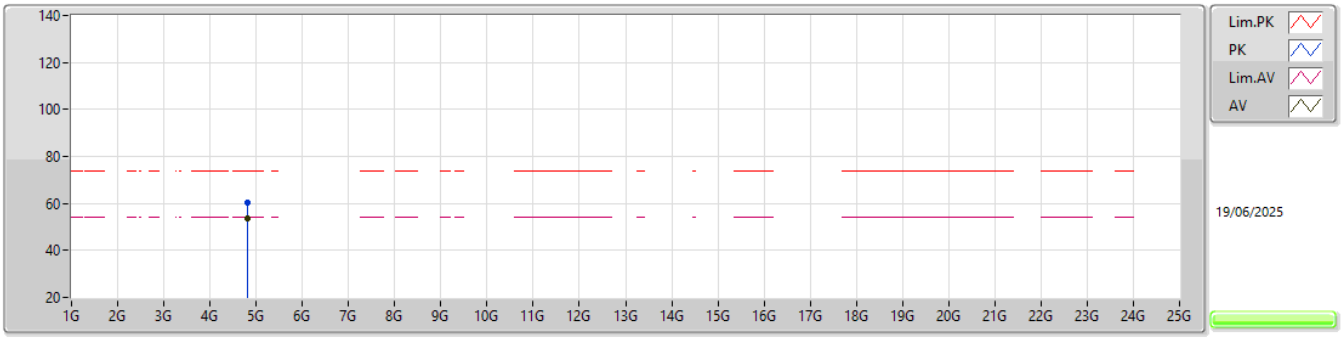


EUT Z_1TX
Setting 11
06-H-S-2-10

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	2.3874G	50.18	74.00	-23.82	51.00	3	Horizontal	72	2.78	-	27.60	4.62	33.04
AV	2.362G	38.09	54.00	-15.91	38.73	3	Horizontal	72	2.78	-	27.78	4.61	33.03
PK	2.4046G	101.60	Inf	-Inf	102.41	3	Horizontal	72	2.78	-	27.60	4.64	33.05
AV	2.405G	98.09	Inf	-Inf	98.90	3	Horizontal	72	2.78	-	27.60	4.64	33.05

2.4-2.4835GHz_802.15.4(Zigbee&thread)_3MHz_Nss1_1TX

2405MHz_TX

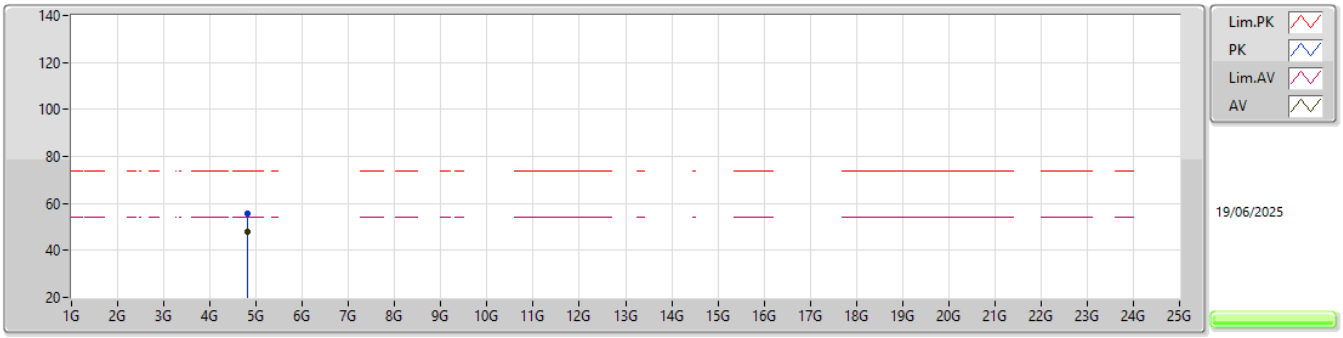


EUT Z_1TX
Setting 11
04-I-S-2

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	4.81094G	60.19	74.00	-13.81	64.79	3	Vertical	123	2.68	-	31.30	8.11	44.01
AV	4.81097G	53.50	54.00	-0.50	58.10	3	Vertical	123	2.68	-	31.30	8.11	44.01

2.4-2.4835GHz_802.15.4(Zigbee&thread)_3MHz_Nss1_1TX

2405MHz_TX

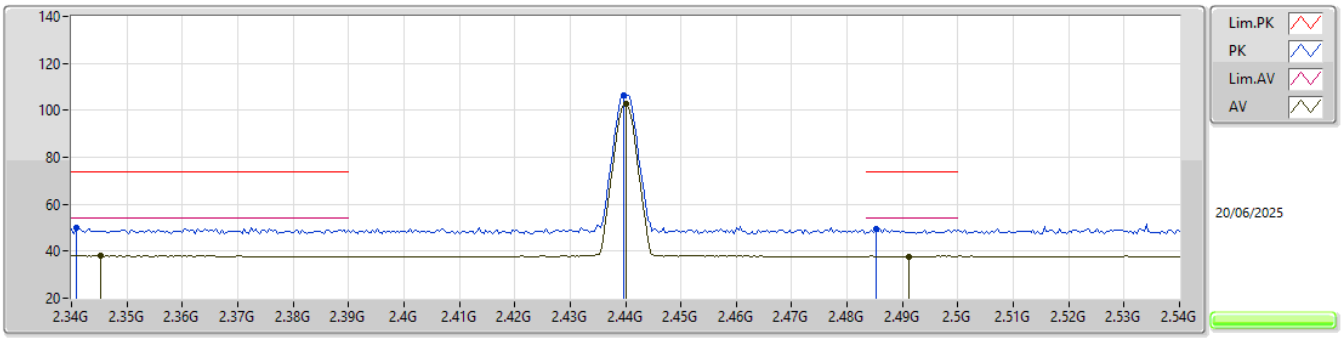


EUT Z_1TX
Setting 11
04-I-S-2

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	4.80903G	55.53	74.00	-18.47	60.13	3	Horizontal	176	3.00	-	31.30	8.11	44.01
AV	4.81098G	47.74	54.00	-6.26	52.34	3	Horizontal	176	3.00	-	31.30	8.11	44.01

2.4-2.4835GHz_802.15.4(Zigbee&thread)_3MHz_Nss1_1TX

2440MHz_TX

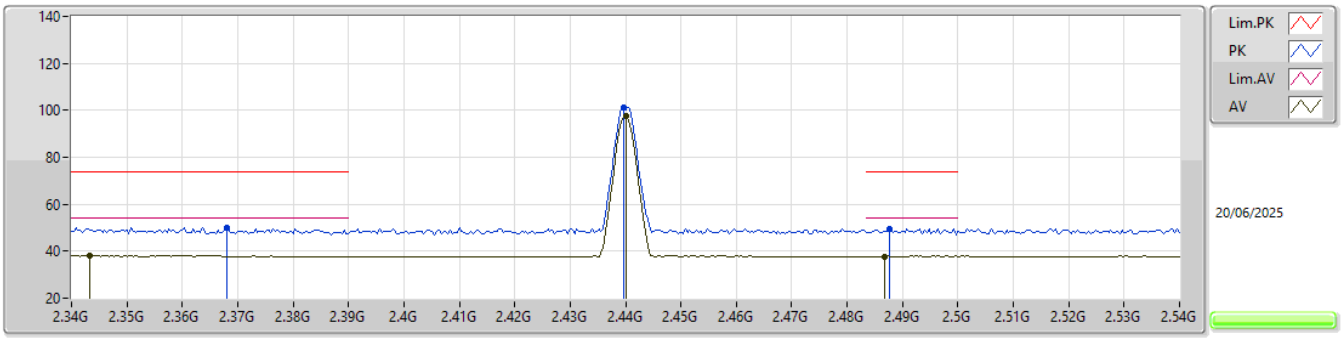


EUT Z_1TX
Setting 14
06-H-S-2-10

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	2.3408G	49.82	74.00	-24.18	50.45	3	Vertical	137	2.82	-	27.80	4.59	33.02
AV	2.3452G	38.07	54.00	-15.93	38.70	3	Vertical	137	2.82	-	27.80	4.59	33.02
PK	2.4396G	106.22	Inf	-Inf	107.19	3	Vertical	137	2.82	-	27.40	4.70	33.07
AV	2.44G	102.78	Inf	-Inf	103.76	3	Vertical	137	2.82	-	27.40	4.70	33.08
PK	2.4852G	49.42	74.00	-24.58	50.30	3	Vertical	137	2.82	-	27.45	4.77	33.10
AV	2.4912G	37.84	54.00	-16.16	38.66	3	Vertical	137	2.82	-	27.49	4.79	33.10

2.4-2.4835GHz_802.15.4(Zigbee&thread)_3MHz_Nss1_1TX

2440MHz_TX

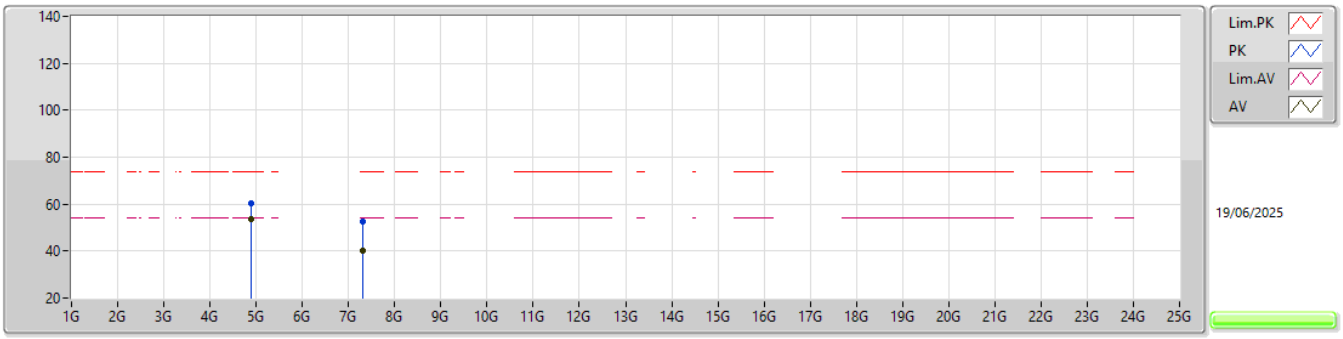


EUT Z_1TX
Setting 14
06-H-S-2-10

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	2.368G	50.19	74.00	-23.81	50.89	3	Horizontal	283	2.92	-	27.72	4.61	33.03
AV	2.3432G	38.07	54.00	-15.93	38.70	3	Horizontal	283	2.92	-	27.80	4.59	33.02
PK	2.4396G	100.99	Inf	-Inf	101.96	3	Horizontal	283	2.92	-	27.40	4.70	33.07
AV	2.44G	97.60	Inf	-Inf	98.58	3	Horizontal	283	2.92	-	27.40	4.70	33.08
PK	2.4876G	49.58	74.00	-24.42	50.42	3	Horizontal	283	2.92	-	27.48	4.78	33.10
AV	2.4868G	37.84	54.00	-16.16	38.69	3	Horizontal	283	2.92	-	27.47	4.78	33.10

2.4-2.4835GHz_802.15.4(Zigbee&thread)_3MHz_Nss1_1TX

2440MHz_TX

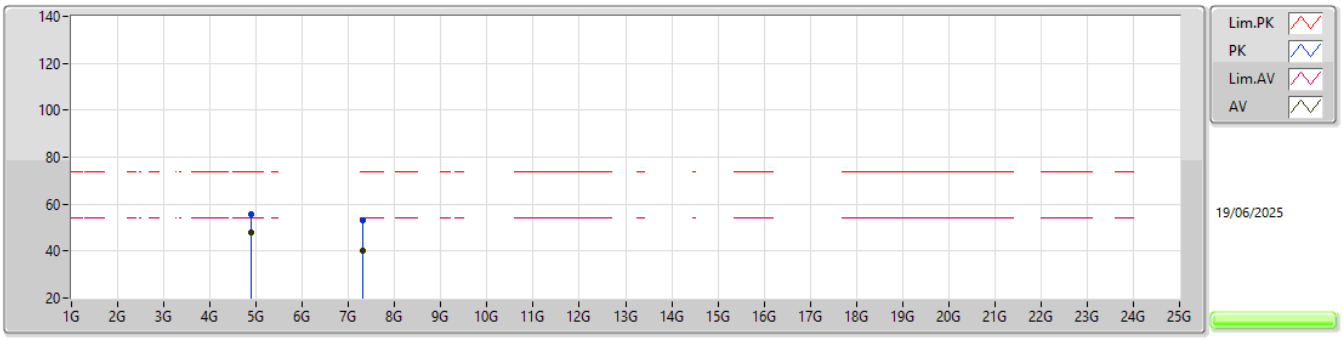


EUT Z_1TX
Setting 14
04-I-S-2

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	4.87906G	60.54	74.00	-13.46	65.05	3	Vertical	114	3.00	-	31.30	8.18	43.99
AV	4.879G	53.58	54.00	-0.42	58.09	3	Vertical	114	3.00	-	31.30	8.18	43.99
PK	7.32184G	52.79	74.00	-21.21	48.75	3	Vertical	76	1.97	-	36.20	10.39	42.55
AV	7.31976G	40.16	54.00	-13.84	36.12	3	Vertical	76	1.97	-	36.20	10.39	42.55

2.4-2.4835GHz_802.15.4(Zigbee&thread)_3MHz_Nss1_1TX

2440MHz_TX

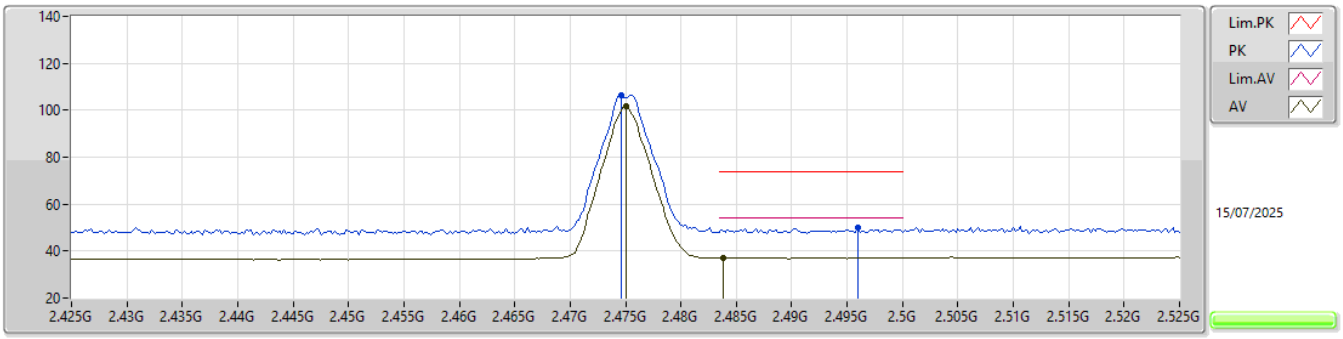


EUT Z_1TX
Setting 14
04-I-S-2

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	4.88094G	55.80	74.00	-18.20	60.31	3	Horizontal	175	2.96	-	31.30	8.18	43.99
AV	4.87899G	47.86	54.00	-6.14	52.37	3	Horizontal	175	2.96	-	31.30	8.18	43.99
PK	7.32178G	52.97	74.00	-21.03	48.93	3	Horizontal	77	2.45	-	36.20	10.39	42.55
AV	7.31829G	40.15	54.00	-13.85	36.11	3	Horizontal	77	2.45	-	36.20	10.39	42.55

2.4-2.4835GHz_802.15.4(Zigbee&thread)_3MHz_Nss1_1TX

2475MHz_TX

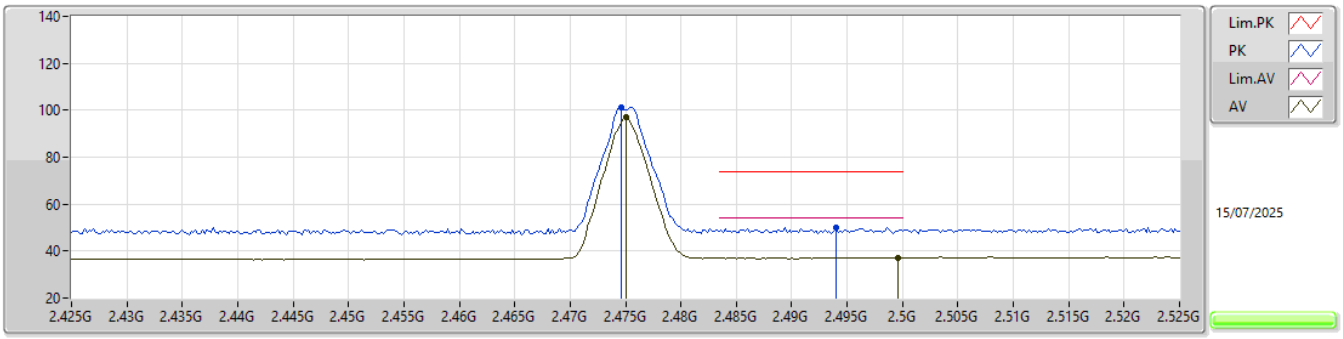


EUT Z_1TX
Setting 14
05-E-G-4-10

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	2.4746G	106.24	Inf	-Inf	108.30	3	Vertical	137	2.94	-	27.75	6.02	35.83
AV	2.475G	101.89	Inf	-Inf	103.95	3	Vertical	137	2.94	-	27.75	6.02	35.83
PK	2.496G	49.78	74.00	-24.22	51.55	3	Vertical	137	2.94	-	27.96	6.08	35.81
AV	2.4838G	37.20	54.00	-16.80	39.13	3	Vertical	137	2.94	-	27.84	6.05	35.82

2.4-2.4835GHz_802.15.4(Zigbee&thread)_3MHz_Nss1_1TX

2475MHz_TX

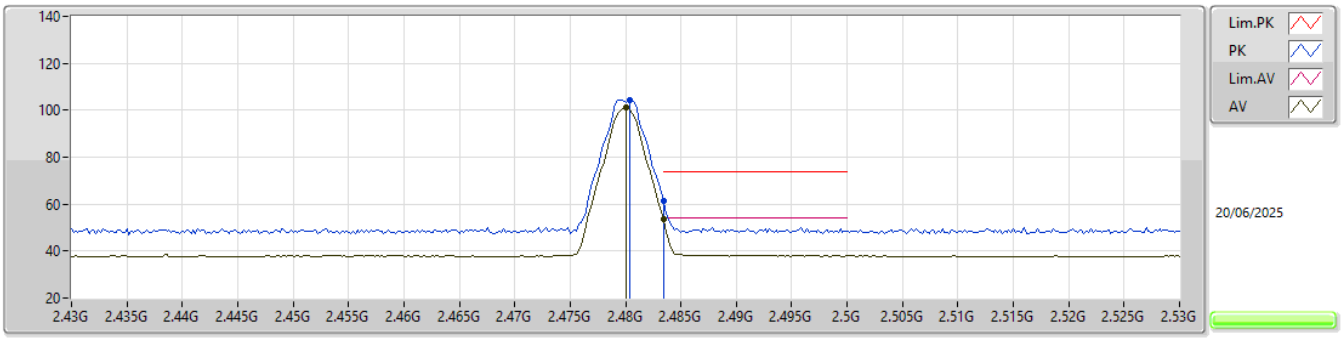


EUT Z_1TX
Setting 14
05-E-G-4-10

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	2.4746G	101.25	Inf	-Inf	103.31	3	Horizontal	104	2.85	-	27.75	6.02	35.83
AV	2.475G	96.86	Inf	-Inf	98.92	3	Horizontal	104	2.85	-	27.75	6.02	35.83
PK	2.494G	50.08	74.00	-23.92	51.88	3	Horizontal	104	2.85	-	27.94	6.08	35.82
AV	2.4996G	37.21	54.00	-16.79	38.93	3	Horizontal	104	2.85	-	28.00	6.09	35.81

2.4-2.4835GHz_802.15.4(Zigbee&thread)_3MHz_Nss1_1TX

2480MHz_TX

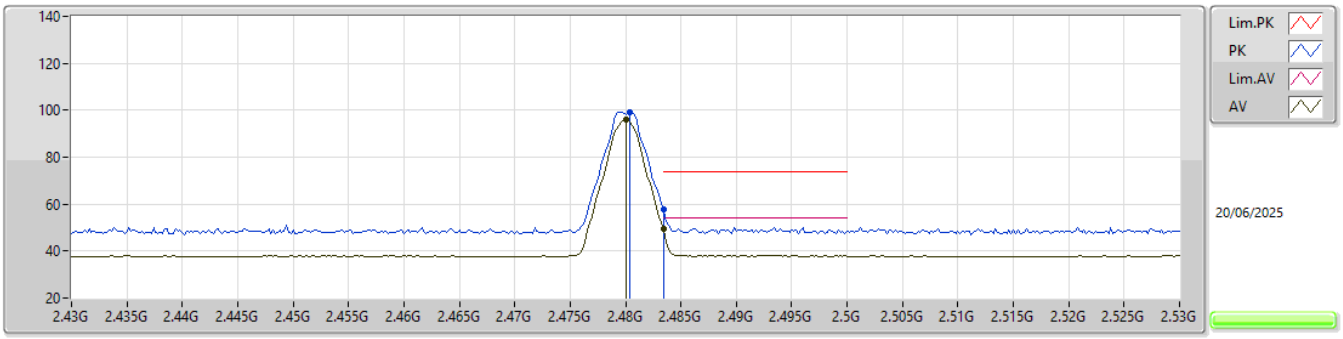


EUT Z_1TX
Setting 9
06-H-S-2-10

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	104.50	Inf	-Inf	105.43	3	Vertical	133	2.16	-	27.40	4.77	33.10
AV	2.48G	101.11	Inf	-Inf	102.04	3	Vertical	133	2.16	-	27.40	4.77	33.10
PK	2.4835G	61.24	74.00	-12.76	62.14	3	Vertical	133	2.16	-	27.43	4.77	33.10
AV	2.4835G	53.85	54.00	-0.15	54.75	3	Vertical	133	2.16	-	27.43	4.77	33.10

2.4-2.4835GHz_802.15.4(Zigbee&thread)_3MHz_Nss1_1TX

2480MHz_TX

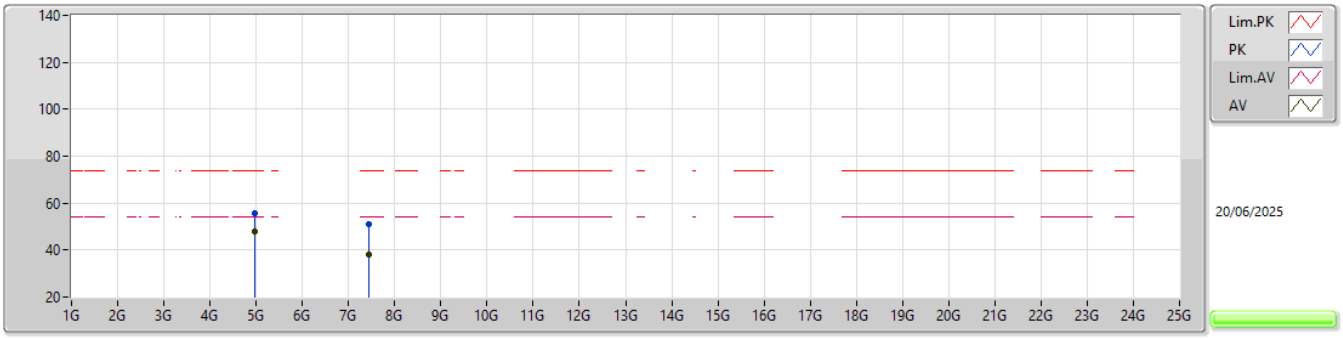


EUT Z_1TX
Setting 9
06-H-S-2-10

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	99.33	Inf	-Inf	100.26	3	Horizontal	301	2.83	-	27.40	4.77	33.10
AV	2.48G	95.94	Inf	-Inf	96.87	3	Horizontal	301	2.83	-	27.40	4.77	33.10
PK	2.4835G	57.73	74.00	-16.27	58.63	3	Horizontal	301	2.83	-	27.43	4.77	33.10
AV	2.4835G	49.27	54.00	-4.73	50.17	3	Horizontal	301	2.83	-	27.43	4.77	33.10

2.4-2.4835GHz_802.15.4(Zigbee&thread)_3MHz_Nss1_1TX

2480MHz_TX

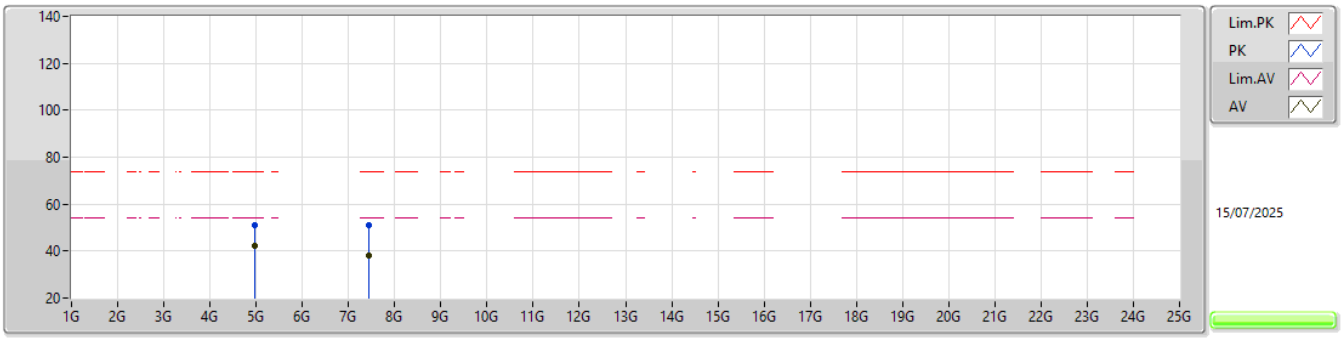


EUT Z_1TX
Setting 9
06-H-S-2

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	4.95893G	55.68	74.00	-18.32	51.58	3	Vertical	25	2.45	-	31.52	6.56	33.98
AV	4.96089G	48.16	54.00	-5.84	44.06	3	Vertical	25	2.45	-	31.52	6.56	33.98
PK	7.44024G	51.03	74.00	-22.97	40.03	3	Vertical	103	1.61	-	36.48	8.71	34.19
AV	7.44023G	38.16	54.00	-15.84	27.16	3	Vertical	103	1.61	-	36.48	8.71	34.19

2.4-2.4835GHz_802.15.4(Zigbee&thread)_3MHz_Nss1_1TX

2480MHz_TX



EUT Z_1TX
Setting 9
06-H-S-2

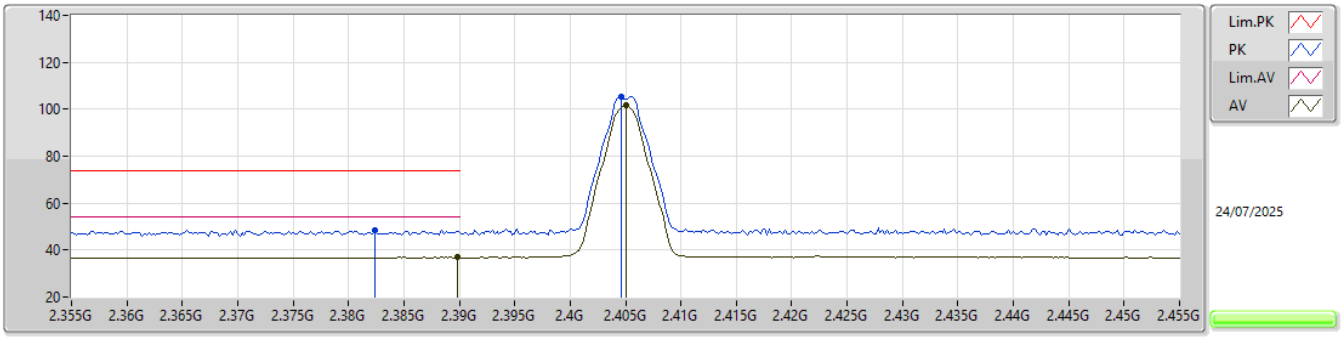
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.95909G	51.06	74.00	-22.94	46.96	3	Horizontal	95	2.58	-	31.52	6.56	33.98
AV	4.96091G	42.38	54.00	-11.62	38.28	3	Horizontal	95	2.58	-	31.52	6.56	33.98
PK	7.44148G	50.85	74.00	-23.15	39.85	3	Horizontal	257	2.28	-	36.48	8.71	34.19
AV	7.43998G	38.09	54.00	-15.91	27.09	3	Horizontal	257	2.28	-	36.48	8.71	34.19

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(Zigbee&Thread)_1TX	Pass	AV	2.4835G	53.93	54.00	-0.07	3	Horizontal	69	2.48	-

2.4-2.4835GHz_802.15.4(Zigbee&Thread)_1TX

2405MHz_TX

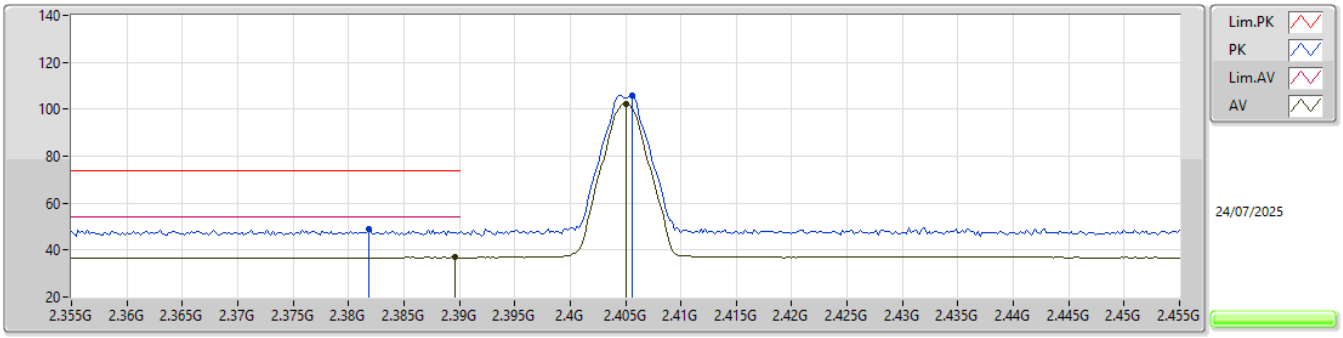


EUT Y_1TX
Setting 11
03-R-J-5-6

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	2.3824G	48.70	74.00	-25.30	49.82	3	Vertical	354	1.12	-	28.32	5.42	34.86
AV	2.3898G	36.90	54.00	-17.10	37.93	3	Vertical	354	1.12	-	28.40	5.43	34.86
PK	2.4046G	105.47	Inf	-Inf	106.59	3	Vertical	354	1.12	-	28.30	5.45	34.87
AV	2.405G	101.89	Inf	-Inf	103.01	3	Vertical	354	1.12	-	28.30	5.45	34.87

2.4-2.4835GHz_802.15.4(Zigbee&Thread)_1TX

2405MHz_TX

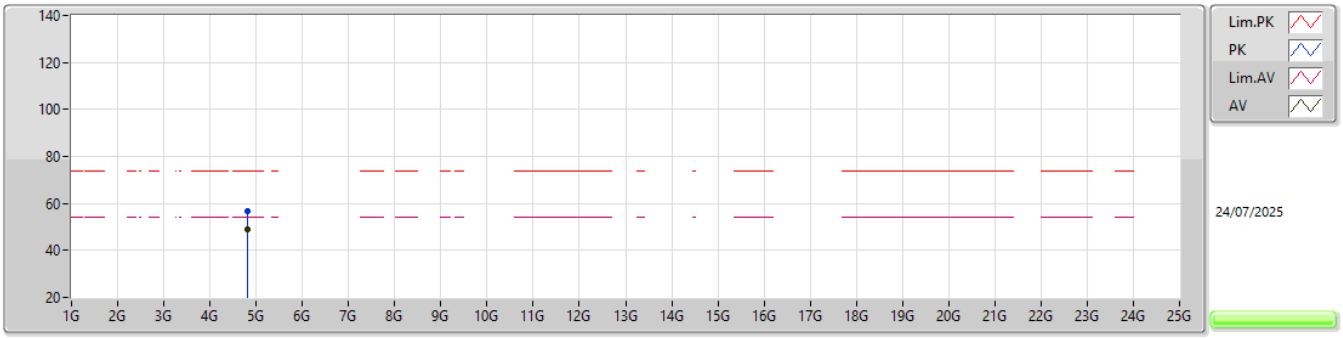


EUT Y_1TX
Setting 11
03-R-J-5-6

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	2.3818G	48.83	74.00	-25.17	49.95	3	Horizontal	60	1.62	-	28.32	5.42	34.86
AV	2.3896G	36.90	54.00	-17.10	37.93	3	Horizontal	60	1.62	-	28.40	5.43	34.86
PK	2.4056G	105.85	Inf	-Inf	106.97	3	Horizontal	60	1.62	-	28.30	5.45	34.87
AV	2.405G	102.43	Inf	-Inf	103.55	3	Horizontal	60	1.62	-	28.30	5.45	34.87

2.4-2.4835GHz_802.15.4(Zigbee&Thread)_1TX

2405MHz_TX

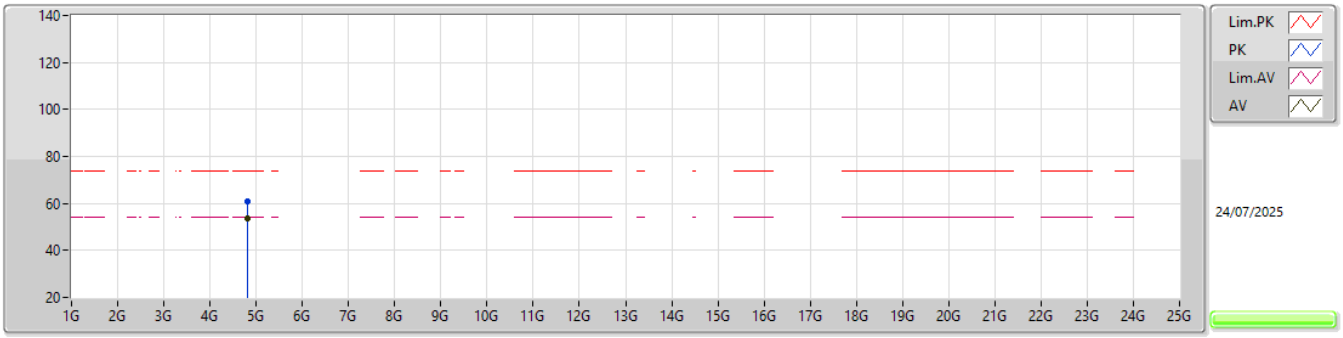


EUT Y_1TX
Setting 11
03-R-J-5

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	4.81088G	56.88	74.00	-17.12	51.16	3	Vertical	285	1.09	-	33.42	7.21	34.91
AV	4.81096G	49.21	54.00	-4.79	43.49	3	Vertical	285	1.09	-	33.42	7.21	34.91

2.4-2.4835GHz_802.15.4(Zigbee&Thread)_1TX

2405MHz_TX

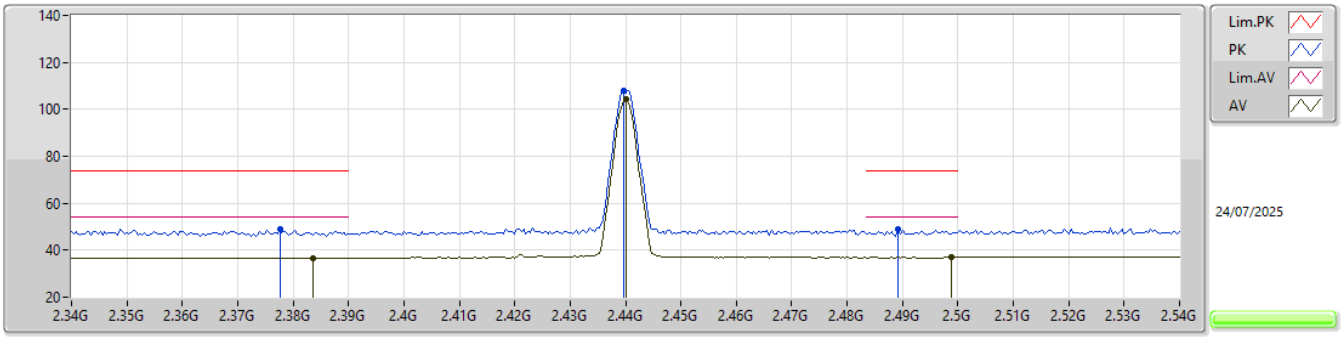


EUT Y_1TX
Setting 11
03-R-J-5

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	4.80906G	60.63	74.00	-13.37	54.91	3	Horizontal	46	1.02	-	33.42	7.21	34.91
AV	4.81098G	53.58	54.00	-0.42	47.86	3	Horizontal	46	1.02	-	33.42	7.21	34.91

2.4-2.4835GHz_802.15.4(Zigbee&Thread)_1TX

2440MHz_TX

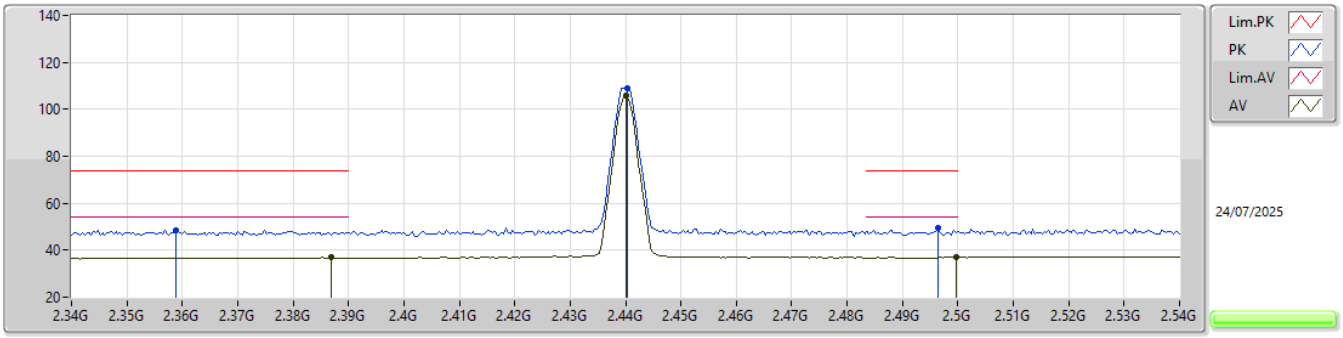


EUT Y_1TX
Setting 14
03-R-J-5-6

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	2.3776G	48.76	74.00	-25.24	49.90	3	Vertical	10	1.09	-	28.30	5.41	34.85
AV	2.3836G	36.81	54.00	-17.19	37.91	3	Vertical	10	1.09	-	28.34	5.42	34.86
PK	2.4396G	108.18	Inf	-Inf	109.18	3	Vertical	10	1.09	-	28.40	5.49	34.89
AV	2.44G	104.44	Inf	-Inf	105.44	3	Vertical	10	1.09	-	28.40	5.49	34.89
PK	2.4892G	48.74	74.00	-25.26	49.70	3	Vertical	10	1.09	-	28.40	5.55	34.91
AV	2.4988G	37.17	54.00	-16.83	38.04	3	Vertical	10	1.09	-	28.49	5.56	34.92

2.4-2.4835GHz_802.15.4(Zigbee&Thread)_1TX

2440MHz_TX

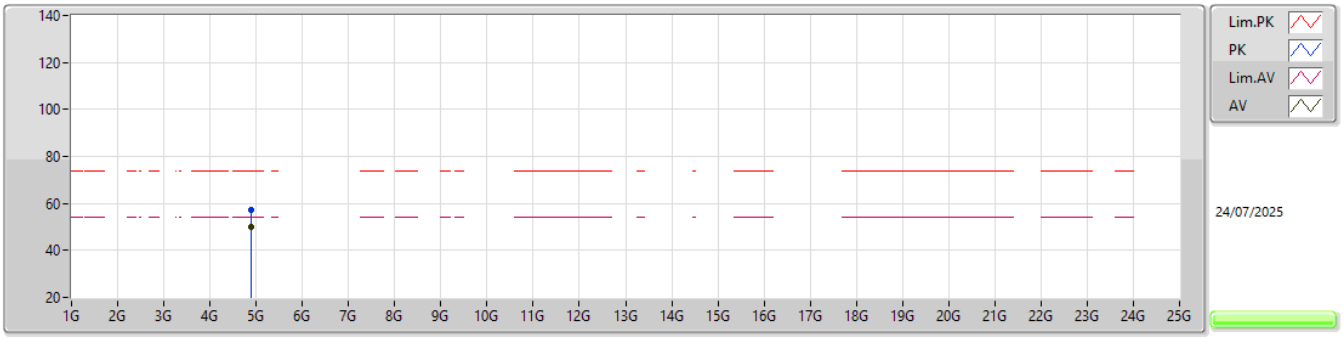


EUT Y_1TX
Setting 14
03-R-J-5-6

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	2.3588G	48.65	74.00	-25.35	49.80	3	Horizontal	52	1.44	-	28.30	5.39	34.84
AV	2.3868G	36.85	54.00	-17.15	37.92	3	Horizontal	52	1.44	-	28.37	5.42	34.86
PK	2.4404G	109.20	Inf	-Inf	110.20	3	Horizontal	52	1.44	-	28.40	5.49	34.89
AV	2.44G	105.78	Inf	-Inf	106.78	3	Horizontal	52	1.44	-	28.40	5.49	34.89
PK	2.4964G	49.40	74.00	-24.60	50.30	3	Horizontal	52	1.44	-	28.46	5.56	34.92
AV	2.4996G	37.01	54.00	-16.99	37.87	3	Horizontal	52	1.44	-	28.50	5.56	34.92

2.4-2.4835GHz_802.15.4(Zigbee&Thread)_1TX

2440MHz_TX

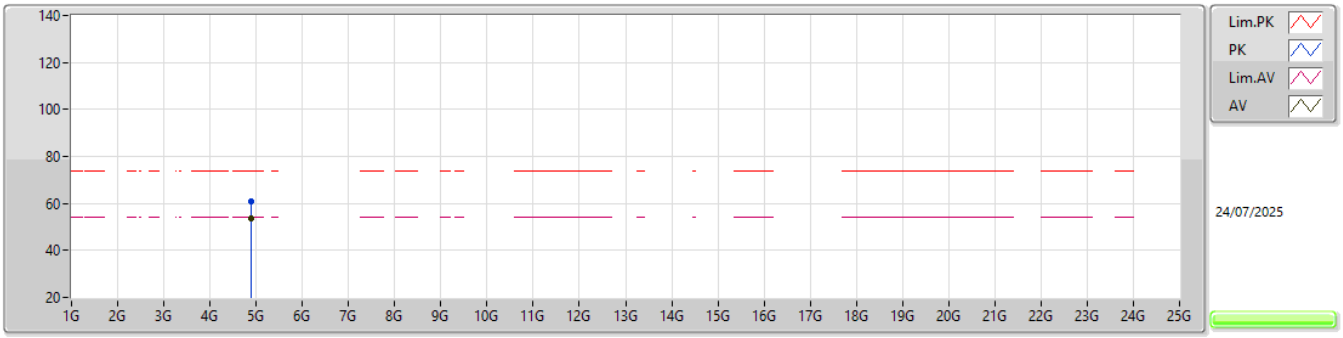


EUT Y_1TX
Setting 14
03-R-J-5

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	4.88095G	57.34	74.00	-16.66	51.53	3	Vertical	287	1.17	-	33.56	7.18	34.93
AV	4.88097G	49.79	54.00	-4.21	43.98	3	Vertical	287	1.17	-	33.56	7.18	34.93

2.4-2.4835GHz_802.15.4(Zigbee&Thread)_1TX

2440MHz_TX

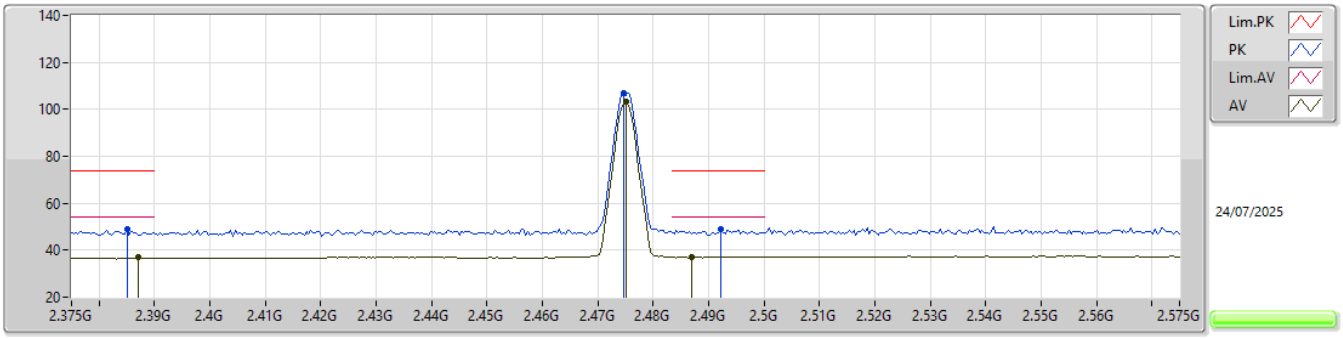


EUT Y_1TX
Setting 14
03-R-J-5

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	4.87896G	60.67	74.00	-13.33	54.86	3	Horizontal	46	1.15	-	33.56	7.18	34.93
AV	4.881G	53.79	54.00	-0.21	47.98	3	Horizontal	46	1.15	-	33.56	7.18	34.93

2.4-2.4835GHz_802.15.4(Zigbee&Thread)_1TX

2475MHz_TX

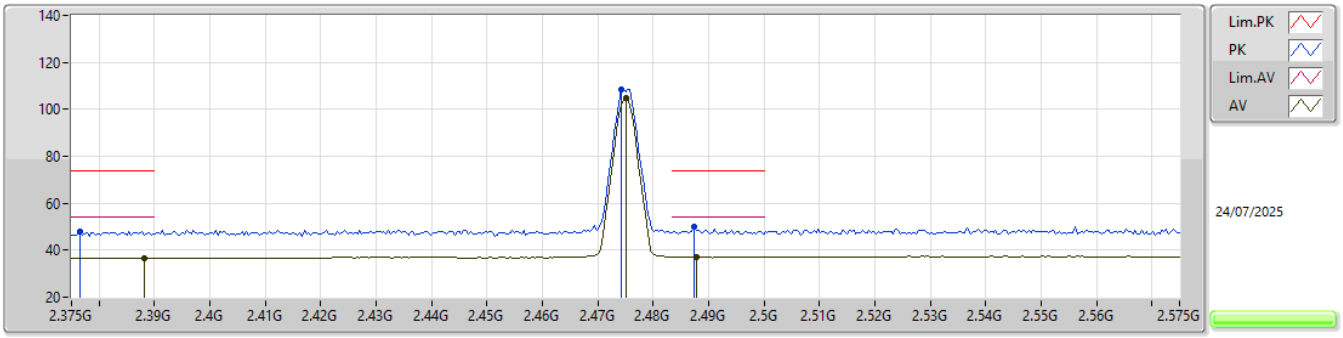


EUT Y_1TX
Setting 14
03-R-J-5-6

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	2.385G	48.79	74.00	-25.21	49.88	3	Vertical	18	1.64	-	28.35	5.42	34.86
AV	2.387G	36.85	54.00	-17.15	37.92	3	Vertical	18	1.64	-	28.37	5.42	34.86
PK	2.4746G	106.99	Inf	-Inf	107.97	3	Vertical	18	1.64	-	28.40	5.53	34.91
AV	2.475G	103.33	Inf	-Inf	104.31	3	Vertical	18	1.64	-	28.40	5.53	34.91
PK	2.4922G	49.06	74.00	-24.94	50.01	3	Vertical	18	1.64	-	28.42	5.55	34.92
AV	2.487G	37.24	54.00	-16.76	38.21	3	Vertical	18	1.64	-	28.40	5.54	34.91

2.4-2.4835GHz_802.15.4(Zigbee&Thread)_1TX

2475MHz_TX

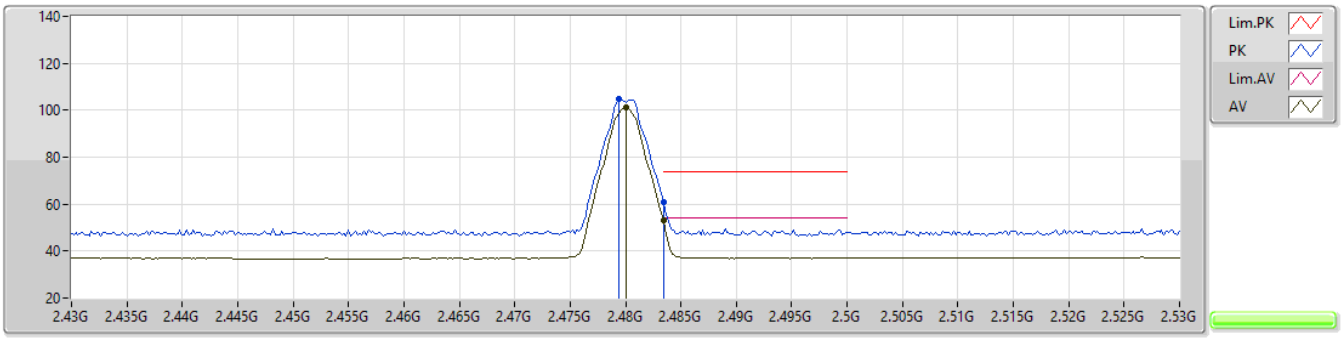


EUT Y_1TX
Setting 14
03-R-J-5-6

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	2.3766G	48.04	74.00	-25.96	49.18	3	Horizontal	66	2.50	-	28.30	5.41	34.85
AV	2.3882G	36.69	54.00	-17.31	37.75	3	Horizontal	66	2.50	-	28.38	5.42	34.86
PK	2.4742G	108.49	Inf	-Inf	109.47	3	Horizontal	66	2.50	-	28.40	5.53	34.91
AV	2.475G	105.07	Inf	-Inf	106.05	3	Horizontal	66	2.50	-	28.40	5.53	34.91
PK	2.4874G	49.81	74.00	-24.19	50.78	3	Horizontal	66	2.50	-	28.40	5.54	34.91
AV	2.4878G	37.25	54.00	-16.75	38.21	3	Horizontal	66	2.50	-	28.40	5.55	34.91

2.4-2.4835GHz_802.15.4(Zigbee&Thread)_1TX

2480MHz_TX

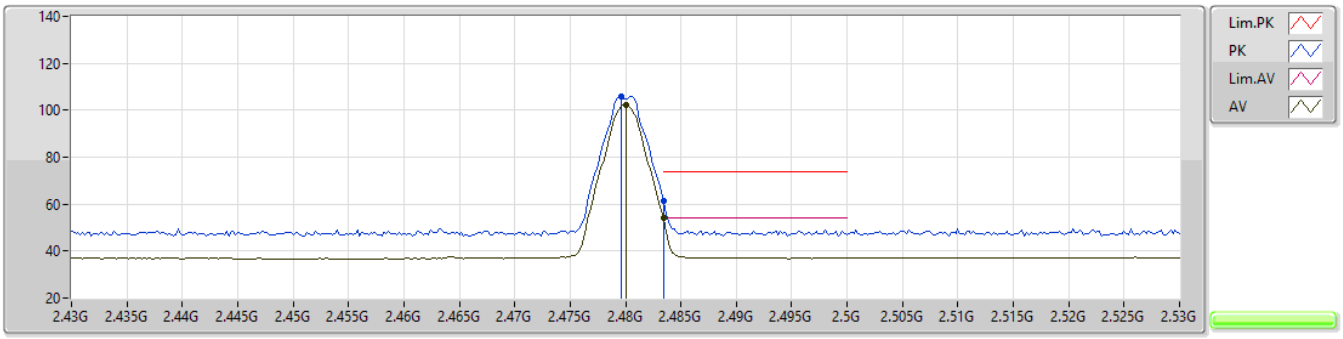


EUT Y_1TX
Setting 11
03-R-J-5-6

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	104.68	Inf	-Inf	105.65	3	Vertical	4	1.65	-	28.40	5.54	34.91
AV	2.48G	101.09	Inf	-Inf	102.06	3	Vertical	4	1.65	-	28.40	5.54	34.91
PK	2.4835G	60.79	74.00	-13.21	61.76	3	Vertical	4	1.65	-	28.40	5.54	34.91
AV	2.4835G	53.05	54.00	-0.95	54.02	3	Vertical	4	1.65	-	28.40	5.54	34.91

2.4-2.4835GHz_802.15.4(Zigbee&Thread)_1TX

2480MHz_TX

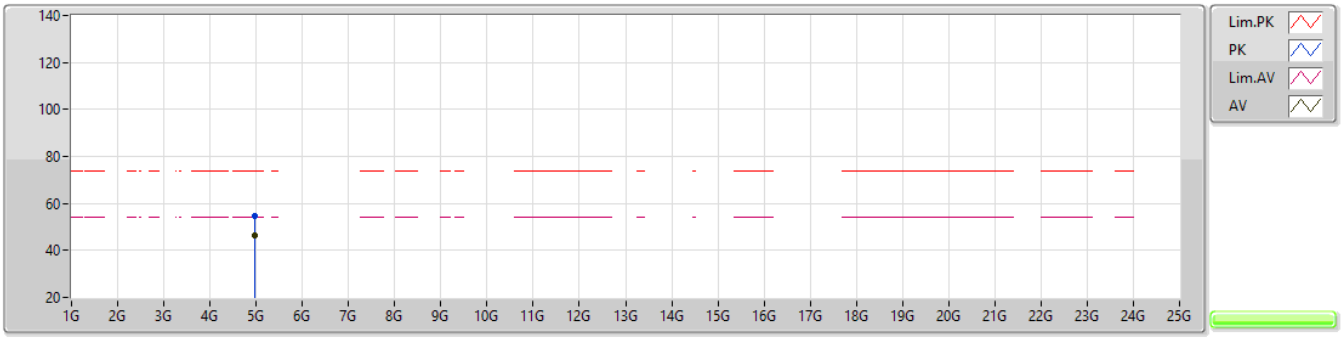


EUT Y_1TX
Setting 11
03-R-J-5-6

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	2.4796G	106.05	Inf	-Inf	107.02	3	Horizontal	69	2.48	-	28.40	5.54	34.91
AV	2.48G	102.35	Inf	-Inf	103.32	3	Horizontal	69	2.48	-	28.40	5.54	34.91
PK	2.4835G	61.46	74.00	-12.54	62.43	3	Horizontal	69	2.48	-	28.40	5.54	34.91
AV	2.4835G	53.93	54.00	-0.07	54.90	3	Horizontal	69	2.48	-	28.40	5.54	34.91

2.4-2.4835GHz_802.15.4(Zigbee&Thread)_1TX

2480MHz_TX

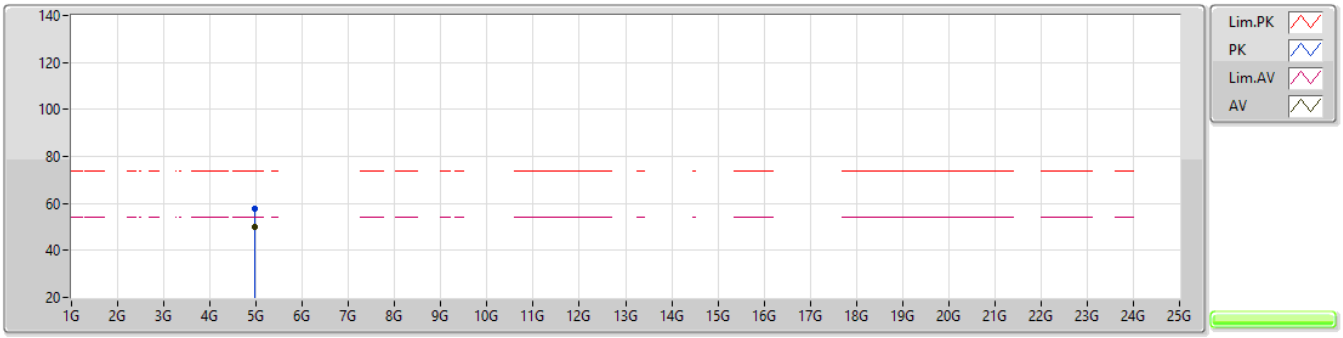


EUT Y_1TX
Setting 11
03-R-J-5

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	4.95904G	54.85	74.00	-19.15	49.03	3	Vertical	287	1.20	-	33.62	7.15	34.95
AV	4.96092G	46.43	54.00	-7.57	40.61	3	Vertical	287	1.20	-	33.62	7.15	34.95

2.4-2.4835GHz_802.15.4(Zigbee&Thread)_1TX

2480MHz_TX



EUT Y_1TX
Setting 11
03-R-J-5

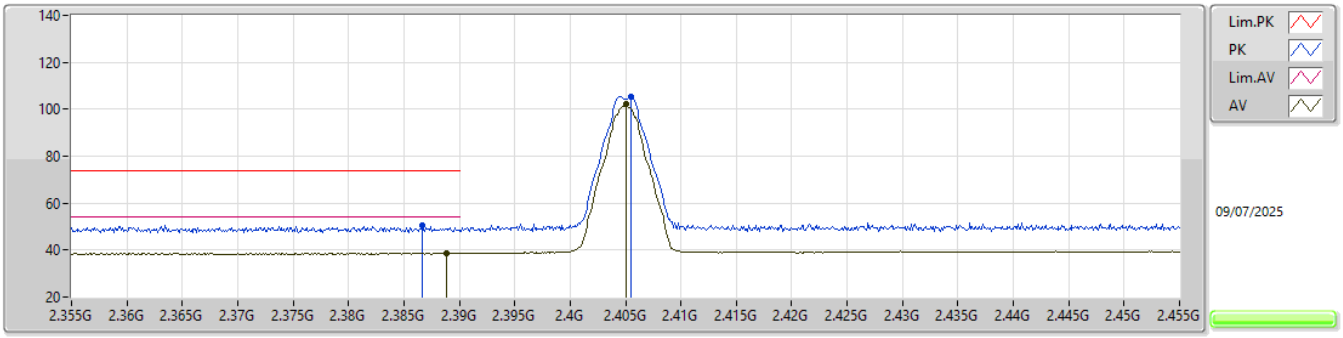
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.95893G	57.83	74.00	-16.17	52.01	3	Horizontal	45	1.09	-	33.62	7.15	34.95
AV	4.96095G	50.23	54.00	-3.77	44.41	3	Horizontal	45	1.09	-	33.62	7.15	34.95

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(Zigbee&thread)_3MHz_Nss1_1TX	Pass	AV	2.4835G	53.97	54.00	-0.03	3	Horizontal	340	1.80	-

2.4-2.4835GHz_802.15.4(Zigbee&thread)_3MHz_Nss1_1TX

2405MHz_TX

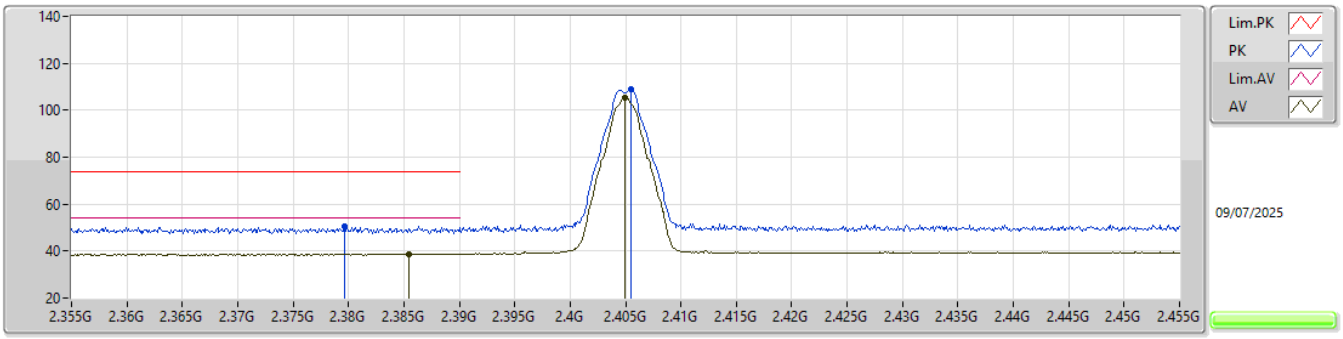


EUT Y_1TX
Setting 12
05-L-V-1-10

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	2.3866G	50.40	74.00	-23.60	53.27	3	Vertical	331	1.01	-	27.27	5.77	35.91
AV	2.3888G	38.75	54.00	-15.25	41.59	3	Vertical	331	1.01	-	27.29	5.78	35.91
PK	2.4055G	105.49	Inf	-Inf	108.12	3	Vertical	331	1.01	-	27.46	5.81	35.90
AV	2.405G	102.08	Inf	-Inf	104.72	3	Vertical	331	1.01	-	27.45	5.81	35.90

2.4-2.4835GHz_802.15.4(Zigbee&thread)_3MHz_Nss1_1TX

2405MHz_TX

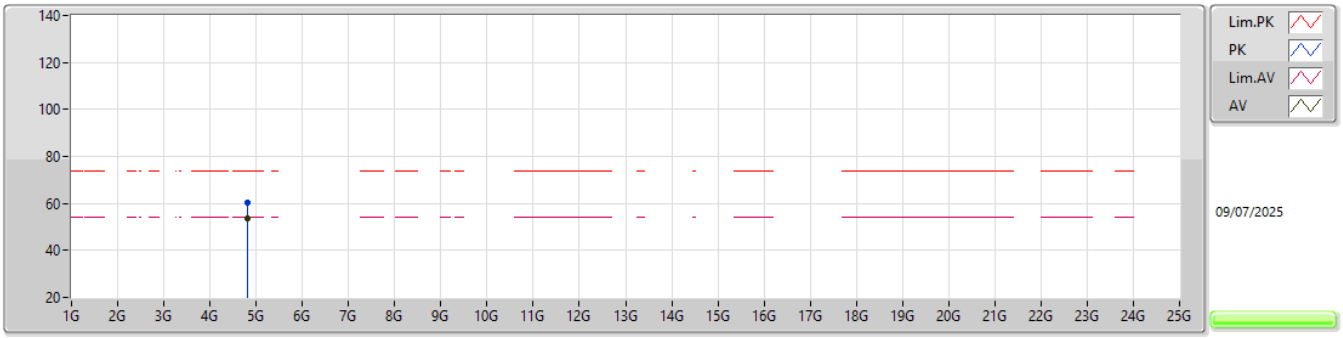


EUT Y_1TX
Setting 12
05-L-V-1-10

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	2.3796G	50.76	74.00	-23.24	53.71	3	Horizontal	348	1.80	-	27.20	5.77	35.92
AV	2.3855G	38.81	54.00	-15.19	41.69	3	Horizontal	348	1.80	-	27.26	5.77	35.91
PK	2.4055G	108.74	Inf	-Inf	111.37	3	Horizontal	348	1.80	-	27.46	5.81	35.90
AV	2.4049G	105.20	Inf	-Inf	107.85	3	Horizontal	348	1.80	-	27.45	5.80	35.90

2.4-2.4835GHz_802.15.4(Zigbee&thread)_3MHz_Nss1_1TX

2405MHz_TX

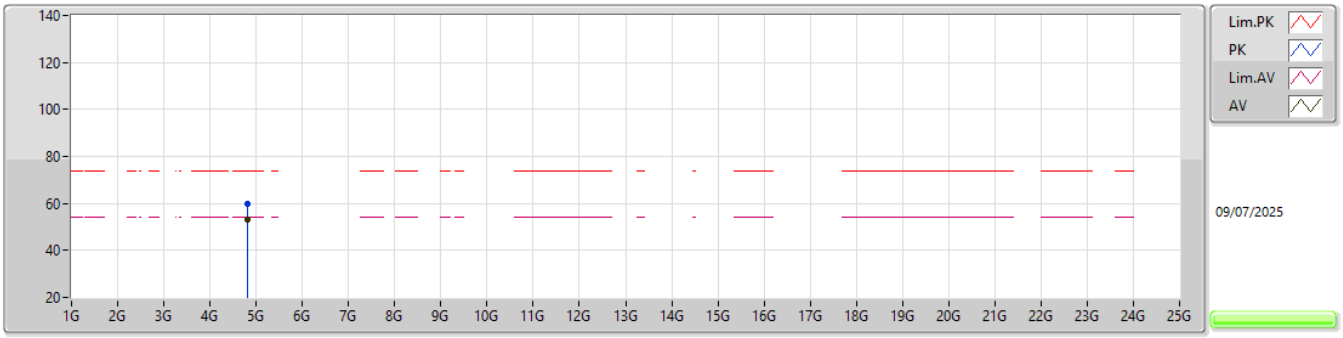


EUT Y_1TX
Setting 12
05-L-V-1

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	4.8109G	60.23	74.00	-13.77	55.13	3	Vertical	45	1.80	-	32.39	7.89	35.18
AV	4.80904G	53.54	54.00	-0.46	48.47	3	Vertical	45	1.80	-	32.37	7.88	35.18

2.4-2.4835GHz_802.15.4(Zigbee&thread)_3MHz_Nss1_1TX

2405MHz_TX

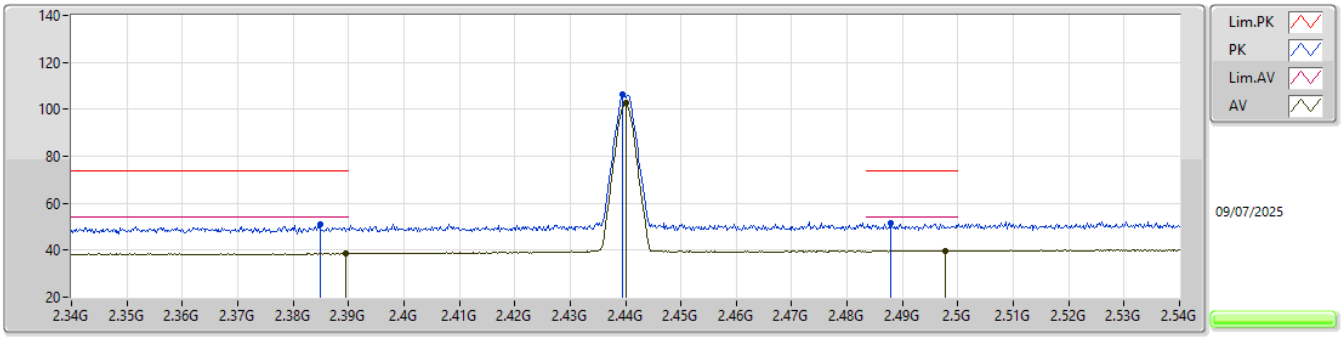


EUT Y_1TX
Setting 12
05-L-V-1

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	4.80898G	59.83	74.00	-14.17	54.76	3	Horizontal	9	1.34	-	32.37	7.88	35.18
AV	4.80898G	53.08	54.00	-0.92	48.01	3	Horizontal	9	1.34	-	32.37	7.88	35.18

2.4-2.4835GHz_802.15.4(Zigbee&thread)_3MHz_Nss1_1TX

2440MHz_TX

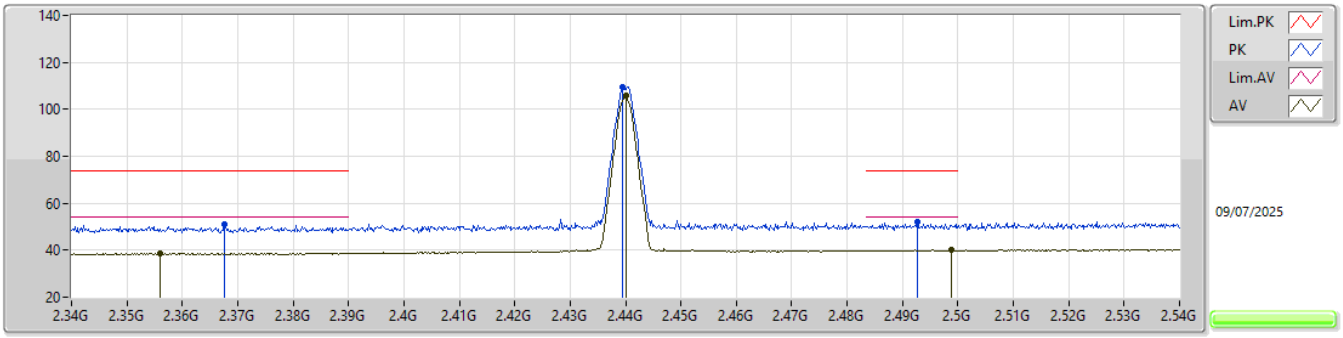


EUT Y_1TX
Setting 11
05-L-V-1-10

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	2.3848G	50.95	74.00	-23.05	53.84	3	Vertical	320	1.01	-	27.25	5.77	35.91
AV	2.3894G	38.75	54.00	-15.25	41.59	3	Vertical	320	1.01	-	27.29	5.78	35.91
PK	2.4394G	106.19	Inf	-Inf	108.63	3	Vertical	320	1.01	-	27.51	5.91	35.86
AV	2.44G	102.68	Inf	-Inf	105.13	3	Vertical	320	1.01	-	27.50	5.91	35.86
PK	2.4878G	51.37	74.00	-22.63	53.25	3	Vertical	320	1.01	-	27.88	6.06	35.82
AV	2.4978G	39.87	54.00	-14.13	41.61	3	Vertical	320	1.01	-	27.98	6.09	35.81

2.4-2.4835GHz_802.15.4(Zigbee&thread)_3MHz_Nss1_1TX

2440MHz_TX

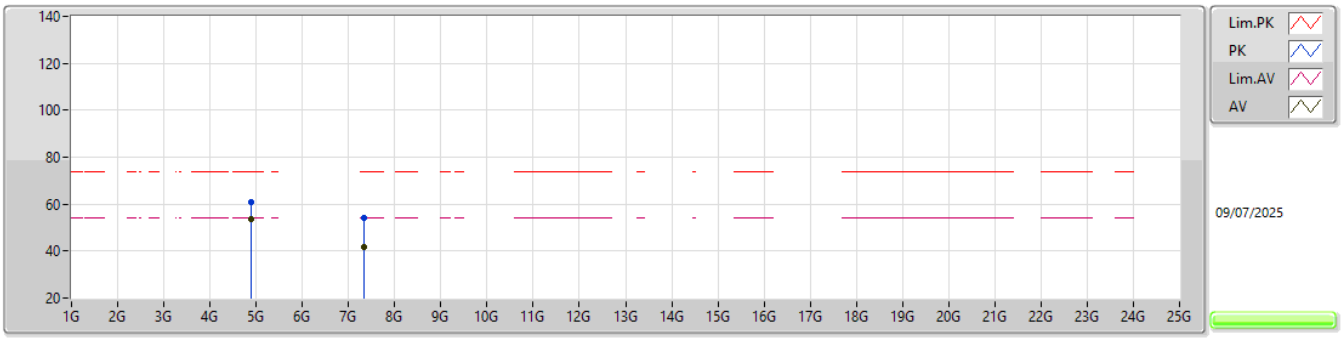


EUT Y_1TX
Setting 11
05-L-V-1-10

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	2.3676G	50.78	74.00	-23.22	53.76	3	Horizontal	343	1.80	-	27.20	5.75	35.93
AV	2.356G	38.66	54.00	-15.34	41.66	3	Horizontal	343	1.80	-	27.20	5.74	35.94
PK	2.4394G	109.40	Inf	-Inf	111.84	3	Horizontal	343	1.80	-	27.51	5.91	35.86
AV	2.44G	105.94	Inf	-Inf	108.39	3	Horizontal	343	1.80	-	27.50	5.91	35.86
PK	2.4926G	51.86	74.00	-22.14	53.68	3	Horizontal	343	1.80	-	27.93	6.07	35.82
AV	2.4988G	40.02	54.00	-13.98	41.75	3	Horizontal	343	1.80	-	27.99	6.09	35.81

2.4-2.4835GHz_802.15.4(Zigbee&thread)_3MHz_Nss1_1TX

2440MHz_TX

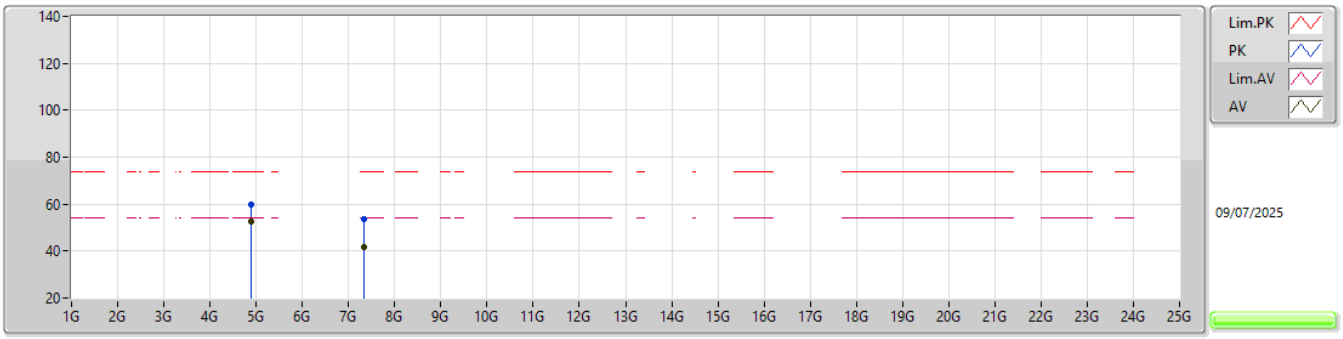


EUT Y_1TX
Setting 11
05-L-V-1

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	4.87916G	60.75	74.00	-13.25	55.18	3	Vertical	46	1.80	-	32.82	7.92	35.17
AV	4.88099G	53.78	54.00	-0.22	48.21	3	Vertical	46	1.80	-	32.82	7.92	35.17
PK	7.32822G	53.95	74.00	-20.05	41.60	3	Vertical	313	2.16	-	37.04	9.38	34.07
AV	7.32705G	41.63	54.00	-12.37	29.27	3	Vertical	313	2.16	-	37.05	9.38	34.07

2.4-2.4835GHz_802.15.4(Zigbee&thread)_3MHz_Nss1_1TX

2440MHz_TX

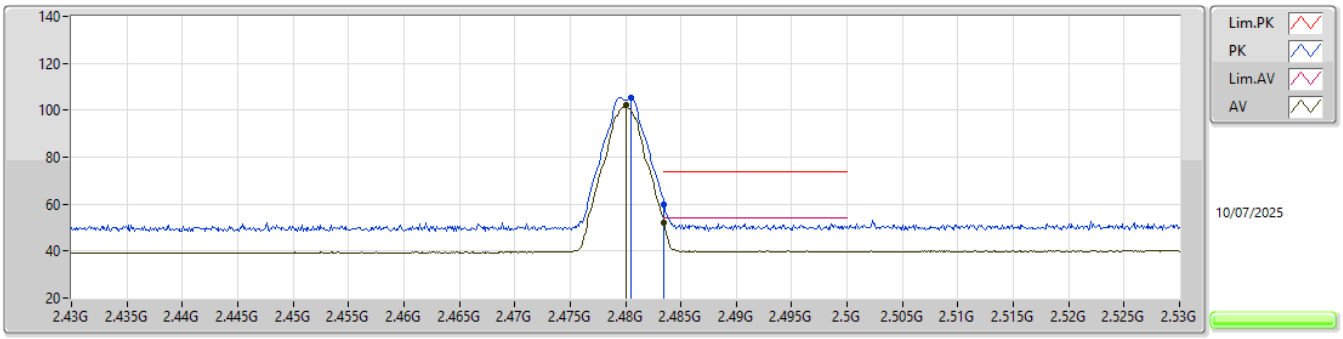


EUT Y_1TX
Setting 11
05-L-V-1

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	4.87907G	59.97	74.00	-14.03	54.40	3	Horizontal	31	2.39	-	32.82	7.92	35.17
AV	4.87898G	52.83	54.00	-1.17	47.26	3	Horizontal	31	2.39	-	32.82	7.92	35.17
PK	7.32411G	53.67	74.00	-20.33	41.31	3	Horizontal	313	1.44	-	37.05	9.38	34.07
AV	7.3233G	41.60	54.00	-12.40	29.24	3	Horizontal	313	1.44	-	37.05	9.38	34.07

2.4-2.4835GHz_802.15.4(Zigbee&thread)_3MHz_Nss1_1TX

2480MHz_TX

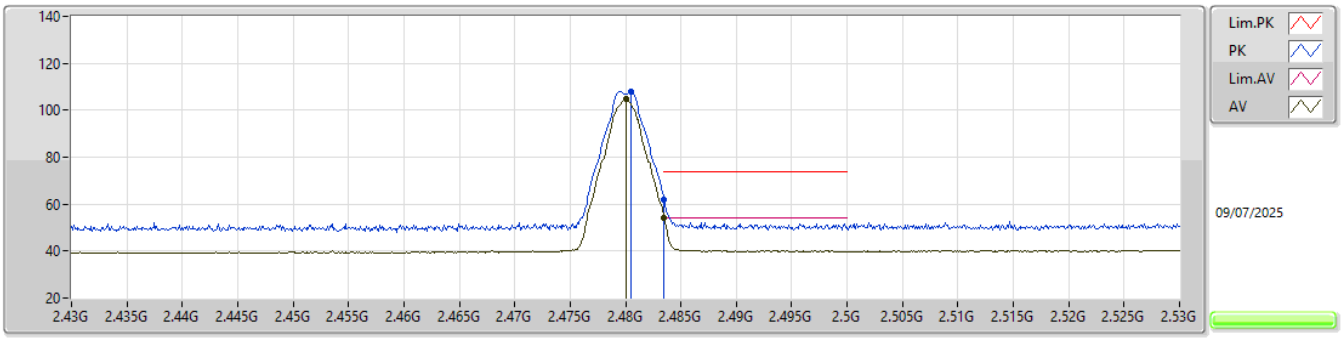


EUT Y_1TX
Setting 9
05-L-V-1-10

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	2.4805G	105.41	Inf	-Inf	107.39	3	Vertical	328	1.80	-	27.81	6.04	35.83
AV	2.48G	102.04	Inf	-Inf	104.04	3	Vertical	328	1.80	-	27.80	6.03	35.83
PK	2.4835G	59.87	74.00	-14.13	61.81	3	Vertical	328	1.80	-	27.84	6.04	35.82
AV	2.4835G	52.14	54.00	-1.86	54.08	3	Vertical	328	1.80	-	27.84	6.04	35.82

2.4-2.4835GHz_802.15.4(Zigbee&thread)_3MHz_Nss1_1TX

2480MHz_TX

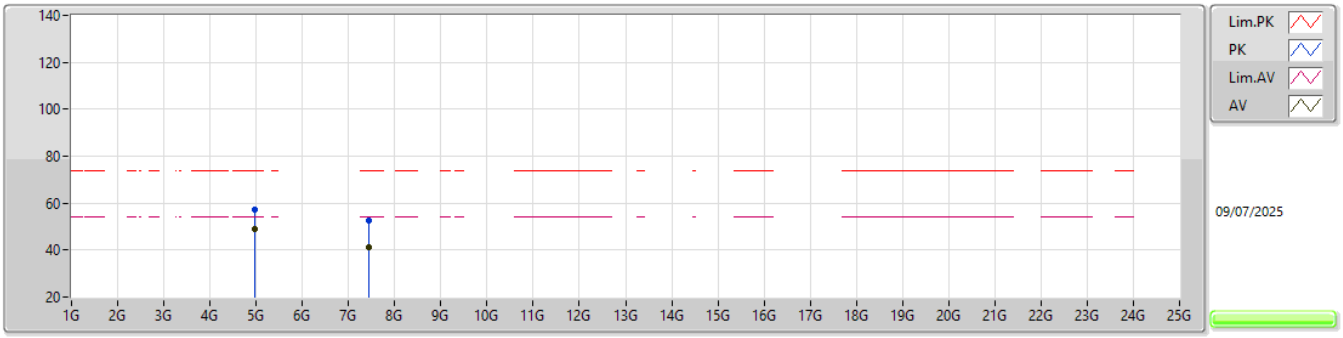


EUT Y_1TX
Setting 9
05-L-V-1-10

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	2.4805G	108.02	Inf	-Inf	110.00	3	Horizontal	340	1.80	-	27.81	6.04	35.83
AV	2.48G	104.59	Inf	-Inf	106.59	3	Horizontal	340	1.80	-	27.80	6.03	35.83
PK	2.4835G	61.71	74.00	-12.29	63.65	3	Horizontal	340	1.80	-	27.84	6.04	35.82
AV	2.4835G	53.97	54.00	-0.03	55.91	3	Horizontal	340	1.80	-	27.84	6.04	35.82

2.4-2.4835GHz_802.15.4(Zigbee&thread)_3MHz_Nss1_1TX

2480MHz_TX

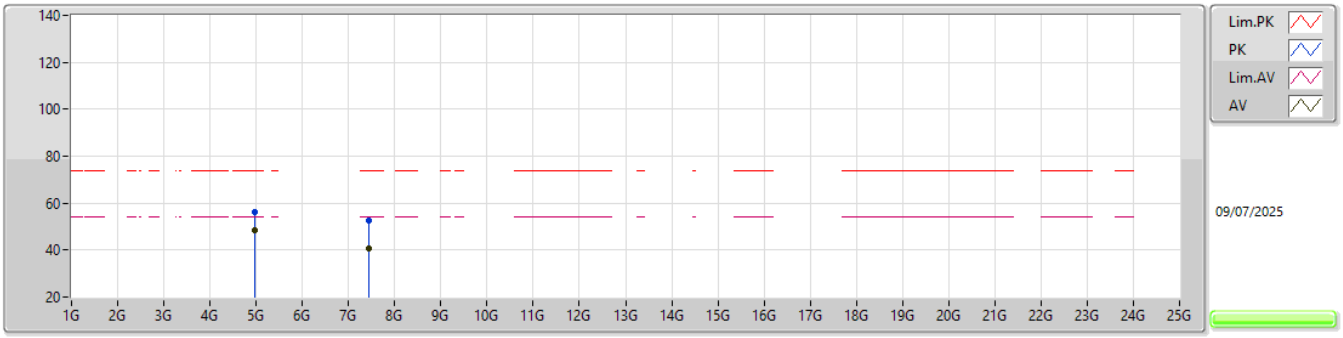


EUT Y_1TX
Setting 9
05-L-V-1

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	4.9591G	57.05	74.00	-16.95	51.21	3	Vertical	36	1.80	-	33.04	7.96	35.16
AV	4.96093G	48.96	54.00	-5.04	43.12	3	Vertical	36	1.80	-	33.04	7.96	35.16
PK	7.44771G	52.51	74.00	-21.49	40.44	3	Vertical	192	1.79	-	36.50	9.50	33.93
AV	7.44471G	41.06	54.00	-12.94	28.98	3	Vertical	192	1.79	-	36.51	9.50	33.93

2.4-2.4835GHz_802.15.4(Zigbee&thread)_3MHz_Nss1_1TX

2480MHz_TX



EUT Y_1TX
Setting 9
05-L-V-1

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	4.96087G	56.37	74.00	-17.63	50.53	3	Horizontal	23	2.57	-	33.04	7.96	35.16
AV	4.96096G	48.51	54.00	-5.49	42.67	3	Horizontal	23	2.57	-	33.04	7.96	35.16
PK	7.44636G	52.82	74.00	-21.18	40.74	3	Horizontal	135	2.90	-	36.51	9.50	33.93
AV	7.44627G	40.88	54.00	-13.12	28.80	3	Horizontal	135	2.90	-	36.51	9.50	33.93