Testing Laboratory
3787

RADIO TEST REPORT

FCC ID	:	2AHXD-5313794
Equipment	:	CarBack Radar
Brand Name	:	TREK
Model Name	:	5313794
Applicant	:	Trek Bicycle Corporation 801 W Madison St, Waterloo, WI 53594
Manufacturer	:	Universal Microelectronics co.,LTD 3,27TH RD.,Taichung Industrial Park.Taichung, Taiwan
Standard	:	47 CFR FCC Part 15.247

The product was received on Jun. 19, 2023, and testing was started from Aug. 11, 2023 and completed on Nov. 06, 2023. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

Approved by: Sam Chen

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

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History of this test report

Report No.	Version	Description	Issued Date
FR360116-03AB	01	Initial issue of report	Mar. 08, 2024

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	-
Note: Reference to Sporton Project No.: 360116				

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

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	BT-LE(1Mbps)	1.0	1TX
2.4-2.4835GHz	BT-LE(2Mbps)	2.0	1TX

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

1.1.2 Antenna Information

Ant.	Port			Brand	Model Name	Antenna Type	Connector	Gain (dBi)
	Bluetooth / ANT plus	76~81GHz						
		TX	RX					
1	-	1~3	1~6	UMEC	S78*	Patch	N/A	11.2
2	1	-	-	JOHANSON	2450AT18D0100E	Chip	N/A	1.5

Note 1: The above information was declared by manufacturer.

Note 2: The Bluetooth and ANT plus cannot function at the same time.

Note 3: **For Bluetooth function (1TX/1RX):**

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

For ANT plus function (1TX/1RX):

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

For 76~81GHz function (3TX/6RX):

Port 1~3 can be used as transmitting antenna.

Port 1~3 could transmit simultaneously.

Port 1~6 can be used as receiving antenna.

Port 1~6 could receive simultaneously.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
BT-LE(1Mbps)	0.628	2.02	392.5u	3k
BT-LE(2Mbps)	0.332	4.79	207.5u	10k

Note:
- DC is Duty Cycle.
- DCF is Duty Cycle Factor.

1.1.4 EUT Operational Condition

EUT Power Type	From Battery or Host system			
Function	☒	Point-to-multipoint	☐	Point-to-point
Test Software Version	nRF Connect For Desktop v4.0.0			
Support Mode	☒	LE 1M PHY: 1 Mb/s		
	☐	LE Coded PHY (S=2): 500 Kb/s		
	☐	LE Coded PHY (S=8): 125 Kb/s		
	☒	LE 2M PHY: 2 Mb/s		

Note: The above information was declared by manufacturer.

1.2 Applicable Standards

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

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

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

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

1.3 Testing Location Information

Testing Location Information	
Test Lab.：Sporton International Inc. Hsinchu Laboratory	
Hsinchu (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	TH01-CB	Eason chen	23.6~24.1 / 66~67	Aug. 18, 2023~ Oct. 13, 2023
Radiated < 1GHz	03CH04-CB	Gordon Hong	22.4~23.5 / 55~58	Aug. 11, 2023~ Nov. 01, 2023
Radiated > 1GHz	03CH01-CB	Chris Lee	22.1~24 / 57~61	Aug. 11, 2023~ Oct. 13, 2023
AC Conduction	CO02-CB	CO02-CB	22~23 / 50~51	Nov. 06, 2023

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)	3.7 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.1 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.1 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.2 dB	Confidence levels of 95%
Conducted Emission	3.1 dB	Confidence levels of 95%
Output Power Measurement	0.8 dB	Confidence levels of 95%
Power Density Measurement	3.1 dB	Confidence levels of 95%
Bandwidth Measurement	2.2%	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
BT-LE(1Mbps)	-
2402MHz	8
2404MHz	8
2440MHz	0
2480MHz	0
BT-LE(2Mbps)	-
2402MHz	8
2404MHz	8
2440MHz	0
2480MHz	0

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_76~81GHz + Bluetooth (Powered by Host system)
2	EUT_76~81GHz + Bluetooth (Powered by Adapter)
Mode 1 has been evaluated to be the worst case among Mode 1~2, so measurement for Mode 3 will follow this same test mode.	
3	EUT_76~81GHz + ANT plus (Powered by Host system)
For operating mode 3 is the worst case and it was record in this test report.	

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emissions in Restricted Frequency Bands
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	Normal link
	After evaluating, EUT in Y axis was the worst case, so the measurement will follow this same test configuration.
1	EUT in Y axis_76~81GHz + ANT plus (Powered by Host system)
2	EUT in Y axis_76~81GHz + ANT plus (Powered by Adapter)
3	EUT in Y axis_76~81GHz + ANT plus (Powered by Battery)
Mode 1 has been evaluated to be the worst case among Mode 1~3, thus measurement for Mode 4 will follow this same test mode.	
4	EUT in Y axis_76~81GHz + Bluetooth (Powered by Host system)
For operating, mode 4 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
	After evaluating, EUT in Y axis was the worst case, so the measurement will follow this same test configuration.
1	EUT in Y axis

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	76~81GHz + Bluetooth
2	76~81GHz + ANT plus
Refer to Sporton Test Report No.: FA360116-03 for Co-location RF Exposure Evaluation.	

Note: The adapter was for measurement only and would not be marketed. Its information is shown as below:

Equipment	Brand Name	Model Name
Adapter	XIAOMI	MDY-09-EA

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
USB cable*1: Shielded, 1.5m
Lithium-ion battery*1

2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	NB	DELL	PP13S	N/A
B	Earphone	SHYARO CHI	MIC-04	N/A
C	Mouse	Logitech	M-U0026	N/A
D	Carplay	BONTRAGER	Garmin edge 1030	N/A

For Radiated < 1GHz:

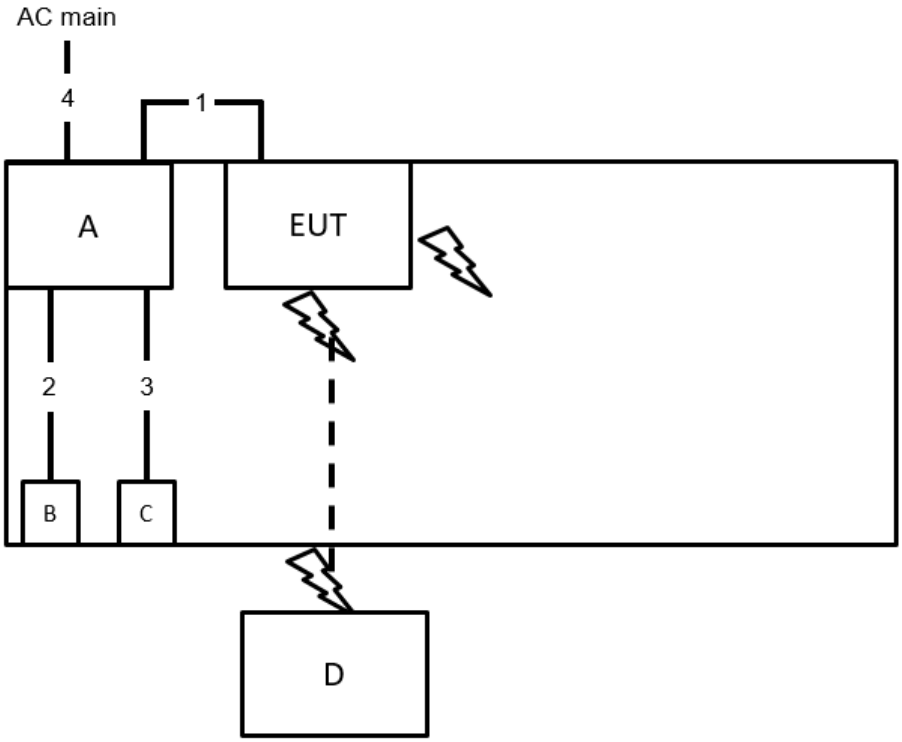
Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	NB	DELL	E4300	N/A
B	Smart phone	Nokia	TA-1062	N/A
C	Earphone	SHYARO CHI	MIC-04	N/A
D	Mouse	Logitech	M-U0026	N/A

For Radiated > 1GHz and RF Conducted:

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	Notebook	DELL	E4300	N/A

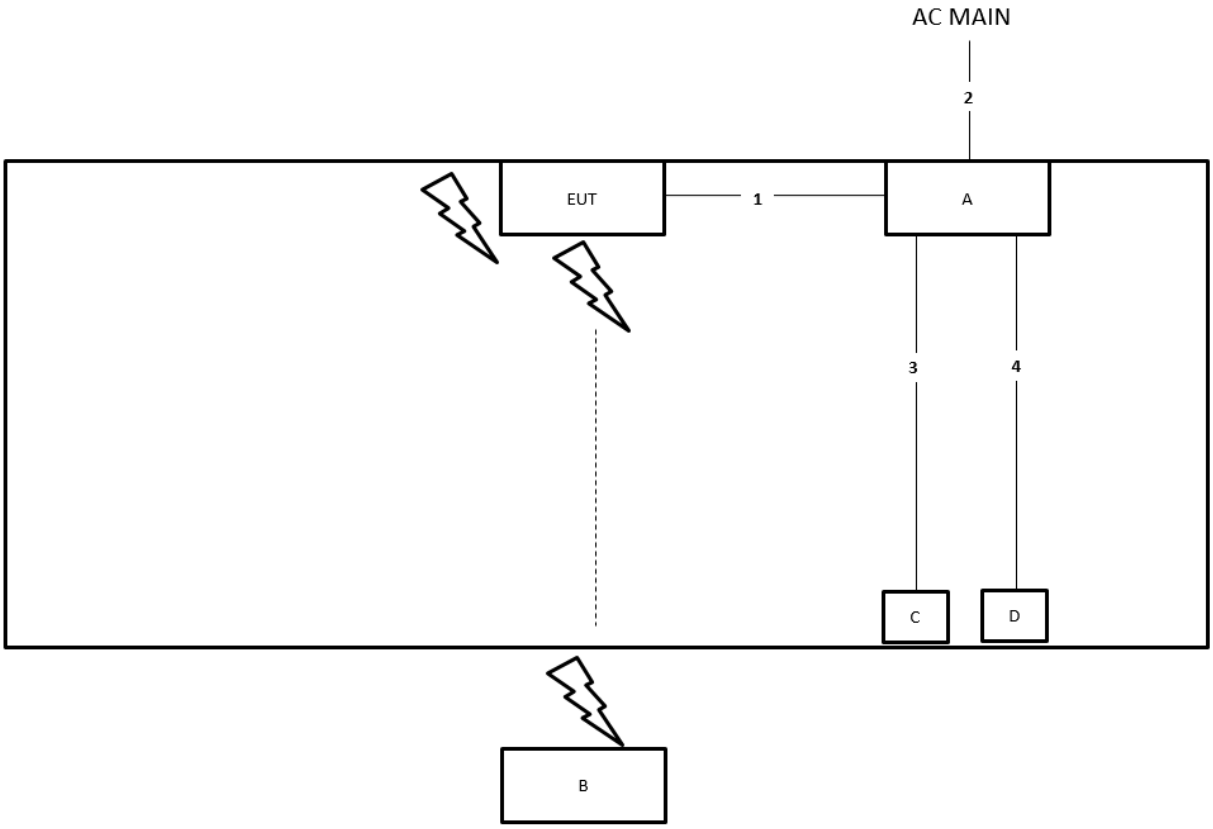
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



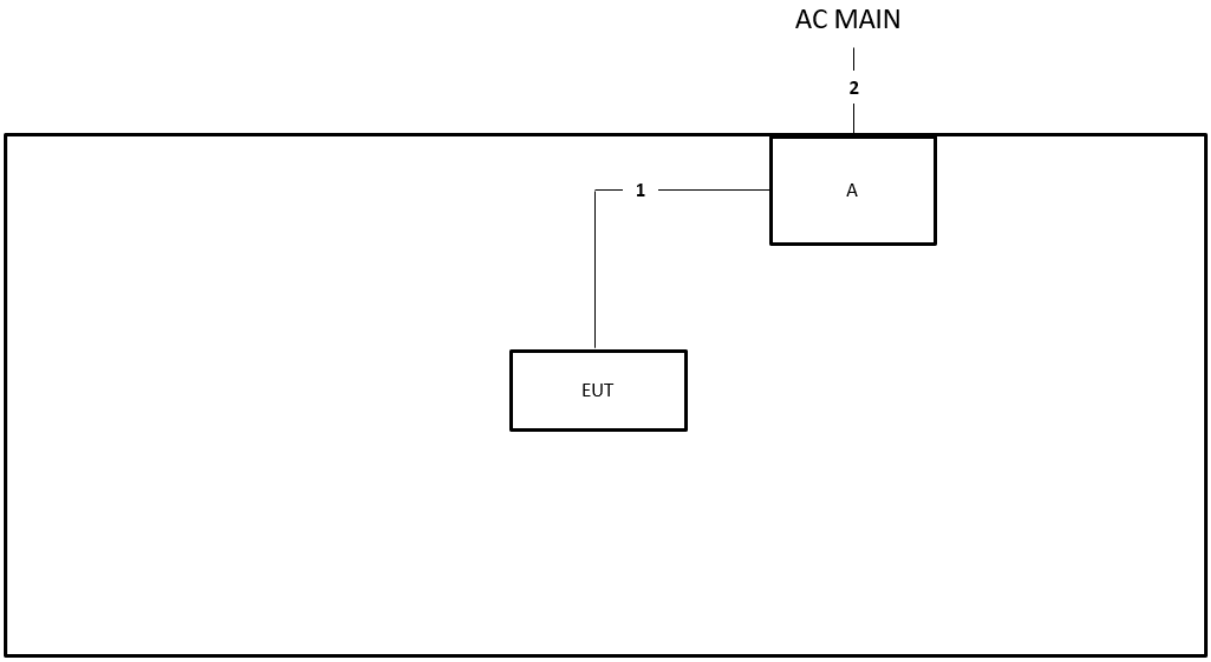
Item	Connection	Shielded	Length
1	USB cable	Yes	1.5m
2	Audio cable	No	1.2m
3	USB cable	Yes	1m
4	Power cable	No	1.8m

Test Setup Diagram - Radiated Test < 1GHz



Item	Connection	Shielded	Length
1	USB cable	Yes	1.5m
2	Power cable	No	1.2m
3	Audio cable	No	1.2m
4	USB cable	Yes	1m

Test Setup Diagram - Radiated Test > 1GHz



Item	Connection	Shielded	Length
1	USB cable	Yes	1.5m
2	Power cable	No	1.2m

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

3.1.2 Measuring Instruments

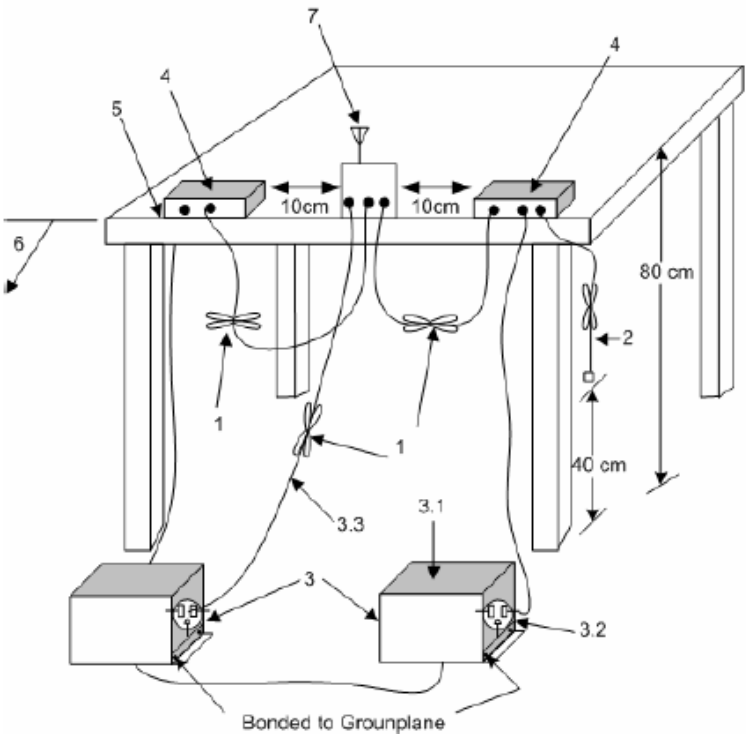
Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

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

3.1.4 Test Setup

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.

1.1.1. 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

3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

6dB Bandwidth Limit
Systems using digital modulation techniques:
▪ 6 dB bandwidth ≥ 500 kHz.

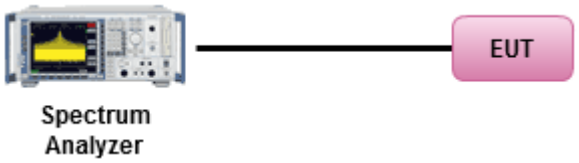
3.2.2 Measuring Instruments

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

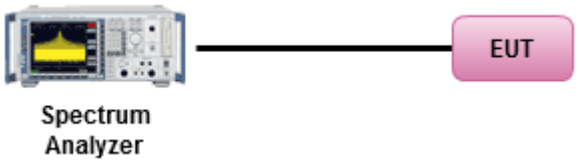
3.4.2 Measuring Instruments

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.	
	[duty cycle ≥ 98% or external video / power trigger]	
▪ 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

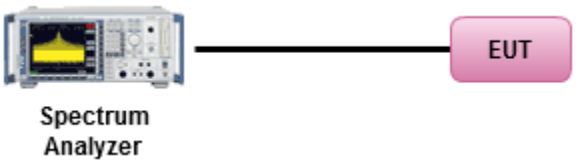
Refer a test equipment and calibration data table in this test report.

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 below30 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.

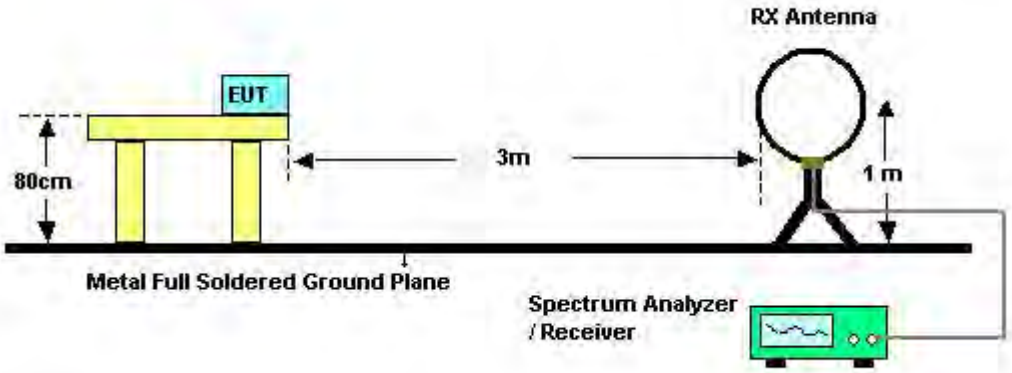
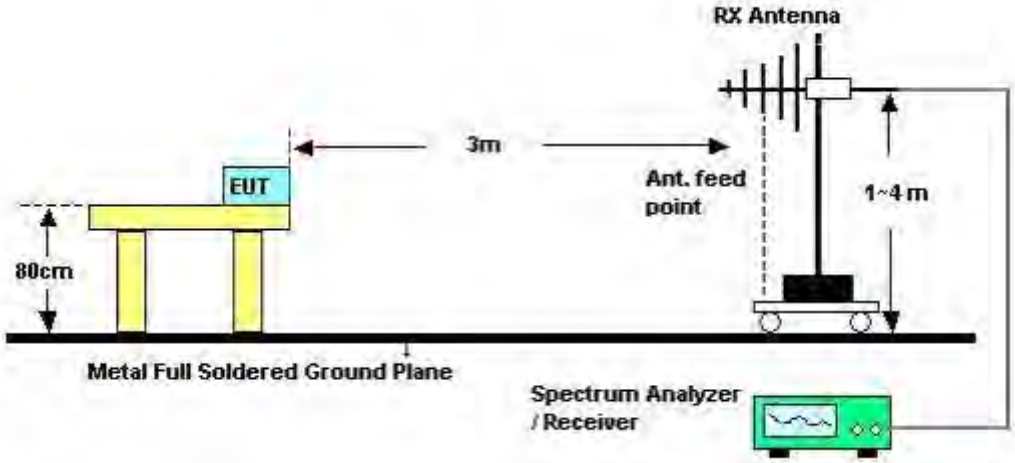
3.6.2 Measuring Instruments

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

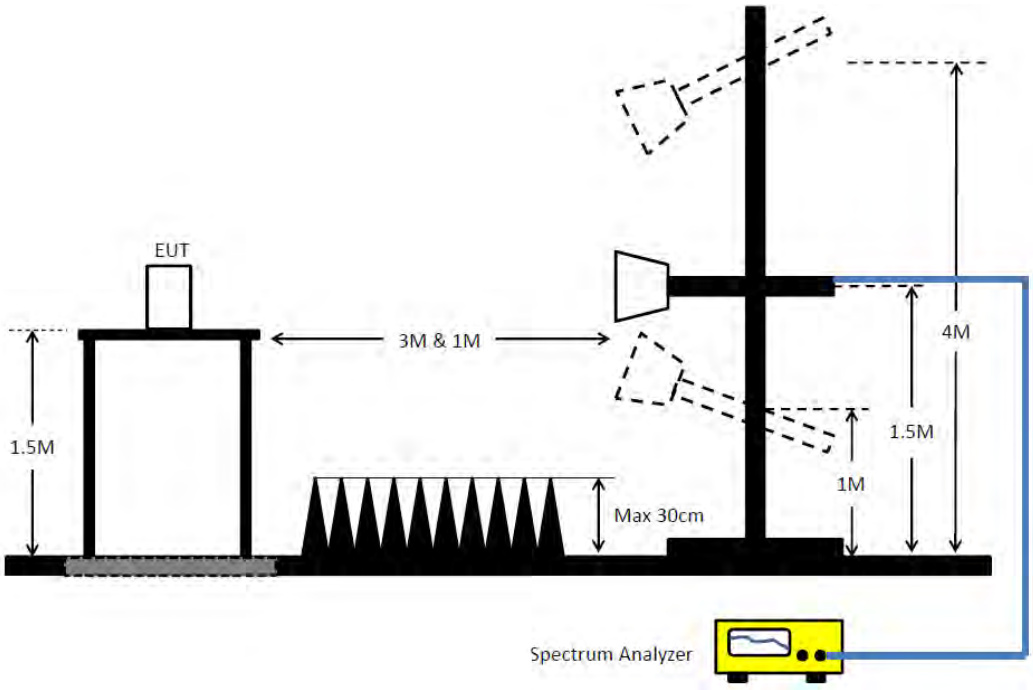
3.6.3 Test Procedures

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. 06, 2023	Apr. 05, 2024	Conduction (CO02-CB)
LISN	Schwarzbeck	NSLK 8127	8127478	9kHz ~ 30MHz	Dec. 20, 2022	Dec. 19, 2023	Conduction (CO02-CB)
EMI Receiver	Agilent	N9038A	MY52260140	9kHz ~ 8.4GHz	May 18, 2023	May 17, 2024	Conduction (CO02-CB)
COND Cable	Woken	Cable	2	0.15MHz ~ 30MHz	Oct. 17, 2023	Oct. 16, 2024	Conduction (CO02-CB)
Pulse Limiter	Schwarzbeck	VTSD 9561F-N	00378	9kHz ~ 30MHz	Oct. 17, 2023	Oct. 16, 2024	Conduction (CO02-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO02-CB)
Loop Antenna	Teseq	HLA 6120	31244	9kHz - 30 MHz	Mar. 23, 2023	Mar. 22, 2024	Radiation (03CH04-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH04-CB	30 MHz ~ 1 GHz	Aug. 01, 2023	Jul. 31, 2024	Radiation (03CH04-CB)
BILOG ANTENNA with 6 dB attenuator	Schaffner & EMCI	CBL6112B & N-6-06	22021&AT-N0607	30MHz ~ 1GHz	Oct. 08, 2022	Oct. 07, 2023	Radiation (03CH04-CB)
BILOG ANTENNA with 6 dB attenuator	Schaffner & EMCI	CBL6112B & N-6-06	22021&AT-N0607	30MHz ~ 1GHz	Oct. 07, 2023	Oct. 06, 2024	Radiation (03CH04-CB)
Pre-Amplifier	EMCI	EMC330N	980391	20MHz ~ 3GHz	May 23, 2023	May 22, 2024	Radiation (03CH04-CB)
Spectrum Analyzer	R&S	FSP40	100142	9kHz~40GHz	Mar. 21, 2023	Mar. 20, 2024	Radiation (03CH04-CB
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 13, 2023	Jun. 12, 2024	Radiation (03CH04-CB)
RF Cable-low	Woken	RG402	Low Cable-03+67	30MHz – 1GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH04-CB)
RF Cable-low	Woken	RG402	Low Cable-03+67	30MHz – 1GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH04-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH04-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH01-CB	1GHz ~18GHz 3m	May 05, 2023	May 04, 2024	Radiation (03CH01-CB)
Horn Antenna	ETS-LINDGREN	3115	00075790	750MHz ~ 18GHz	Nov. 04, 2022	Nov. 03, 2023	Radiation (03CH01-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 28, 2023	Jun. 27, 2024	Radiation (03CH01-CB)

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Pre-Amplifier	Agilent	8449B	3008A02121	1GHz ~ 26.5GHz	May 18, 2023	May 17, 2024	Radiation (03CH01-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 16, 2022	Nov. 15, 2023	Radiation (03CH01-CB)
Signal Analyzer	R&S	FSV3044	101437	10kHz ~ 44GHz	Nov. 29, 2022	Nov. 29, 2023	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16	1 GHz ~ 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16	1 GHz ~ 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16+17	1 GHz ~ 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16+17	1 GHz ~ 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#6	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	May 29, 2023	May 28, 2024	Conducted (TH01-CB)
Switch	SPTCB	SP-SWI	SWI-01	1 GHz –26.5 GHz	Oct. 04, 2022	Oct. 03, 2023	Conducted (TH01-CB)
Switch	SPTCB	SP-SWI	SWI-01	1 GHz –26.5 GHz	Oct. 04, 2022	Oct. 03, 2023	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz – 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz – 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz – 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz – 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH01-CB)

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-10	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-30	1 GHz – 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-30	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
Power Sensor	Agilent	E9327A	US40442088	50MHz~18GHz	Feb. 22, 2023	Feb. 21, 2024	Conducted (TH01-CB)
Power Meter	Agilent	E4416A	GB41291199	50MHz~18GHz	Feb. 22, 2023	Feb. 21, 2024	Conducted (TH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH01-CB)

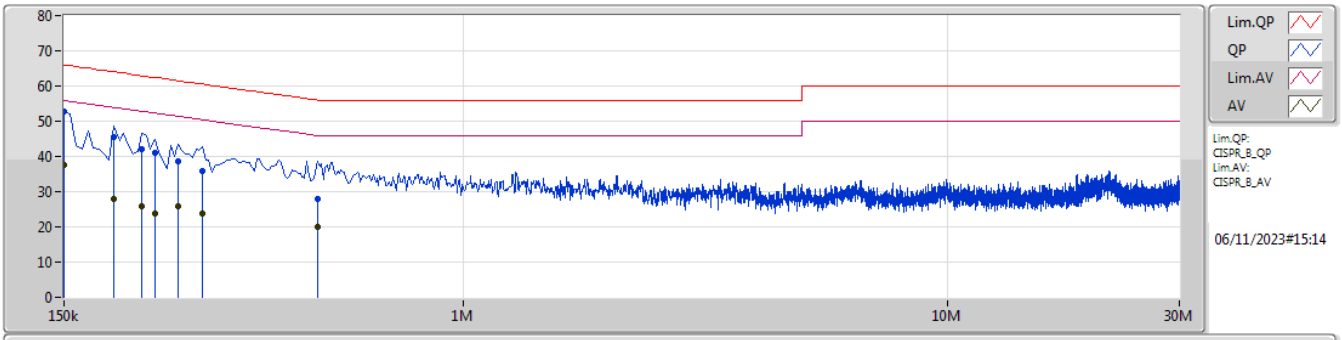
Note: Calibration Interval of instruments listed above is one year.

NCR means Non-Calibration required.

Summary

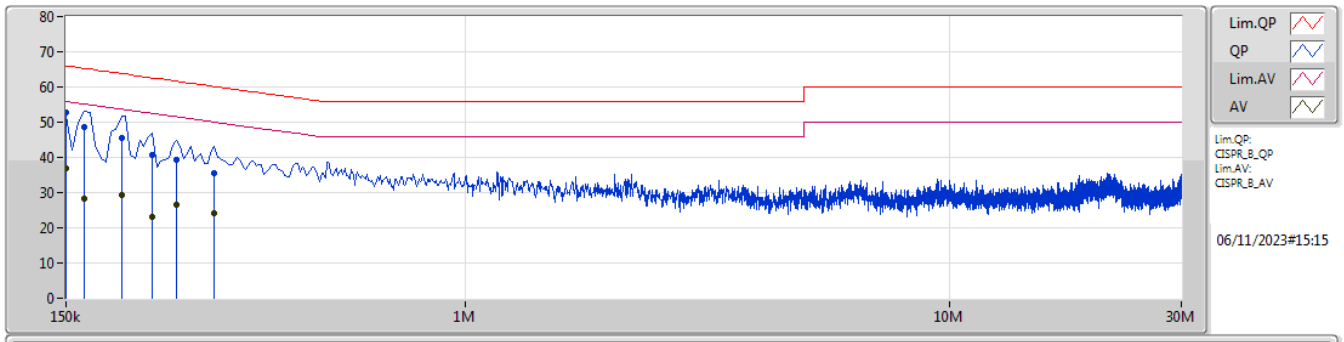
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 3	Pass	QP	150k	52.85	66.00	-13.15	Line

Mode 3



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	150k	52.85	66.00	-13.15	10.08	Line	"Worst"	42.77	0.04	0.03	10.01
AV	150k	37.65	56.00	-18.35	10.08	Line	-	27.57	0.04	0.03	10.01
QP	190.5k	45.66	64.01	-18.35	10.06	Line	-	35.60	0.04	0.03	9.99
AV	190.5k	27.81	54.01	-26.20	10.06	Line	-	17.75	0.04	0.03	9.99
QP	217.5k	42.16	62.92	-20.76	10.06	Line	-	32.10	0.04	0.03	9.99
AV	217.5k	25.72	52.92	-27.20	10.06	Line	-	15.66	0.04	0.03	9.99
QP	231k	40.94	62.41	-21.47	10.06	Line	-	30.88	0.04	0.03	9.99
AV	231k	23.91	52.41	-28.50	10.06	Line	-	13.85	0.04	0.03	9.99
QP	258k	38.53	61.49	-22.96	10.06	Line	-	28.47	0.04	0.03	9.99
AV	258k	25.76	51.49	-25.73	10.06	Line	-	15.70	0.04	0.03	9.99
QP	289.5k	35.98	60.53	-24.55	10.07	Line	-	25.91	0.04	0.03	10.00
AV	289.5k	23.87	50.53	-26.66	10.07	Line	-	13.80	0.04	0.03	10.00
QP	500k	28.03	56.00	-27.97	10.07	Line	-	17.96	0.04	0.03	10.00
AV	500k	19.84	46.00	-26.16	10.07	Line	-	9.77	0.04	0.03	10.00

Mode 3



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	150k	52.61	66.00	-13.39	10.09	Neutral	"Worst"	42.52	0.05	0.03	10.01
AV	150k	36.78	56.00	-19.22	10.09	Neutral	-	26.69	0.05	0.03	10.01
QP	163.5k	48.70	65.27	-16.57	10.09	Neutral	-	38.61	0.05	0.03	10.01
AV	163.5k	28.36	55.27	-26.91	10.09	Neutral	-	18.27	0.05	0.03	10.01
QP	195k	45.51	63.82	-18.31	10.07	Neutral	-	35.44	0.05	0.03	9.99
AV	195k	29.34	53.82	-24.48	10.07	Neutral	-	19.27	0.05	0.03	9.99
QP	226.5k	40.81	62.58	-21.77	10.07	Neutral	-	30.74	0.05	0.03	9.99
AV	226.5k	22.94	52.58	-29.64	10.07	Neutral	-	12.87	0.05	0.03	9.99
QP	253.5k	39.19	61.64	-22.45	10.07	Neutral	-	29.12	0.05	0.03	9.99
AV	253.5k	26.40	51.64	-25.24	10.07	Neutral	-	16.33	0.05	0.03	9.99
QP	303k	35.50	60.17	-24.67	10.08	Neutral	-	25.42	0.05	0.03	10.00
AV	303k	24.21	50.17	-25.96	10.08	Neutral	-	14.13	0.05	0.03	10.00

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
BT-LE(1Mbps)	700k	1.047M	1M05F1D	695k	1.043M
BT-LE(2Mbps)	1.14M	2.04M	2M04F1D	1.13M	2.034M

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

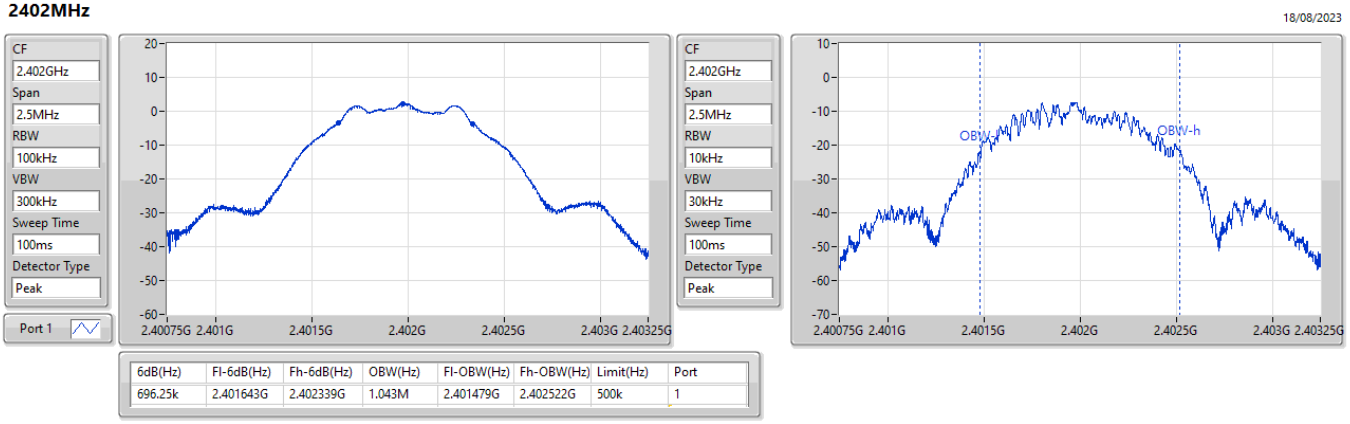
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	500k	696.25k	1.043M
2440MHz	Pass	500k	700k	1.045M
2480MHz	Pass	500k	695k	1.047M
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	500k	1.14M	2.034M
2440MHz	Pass	500k	1.13M	2.04M
2480MHz	Pass	500k	1.135M	2.038M

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

2.4-2.4835GHz_BT-LE(1Mbps) **EBW-DTS**

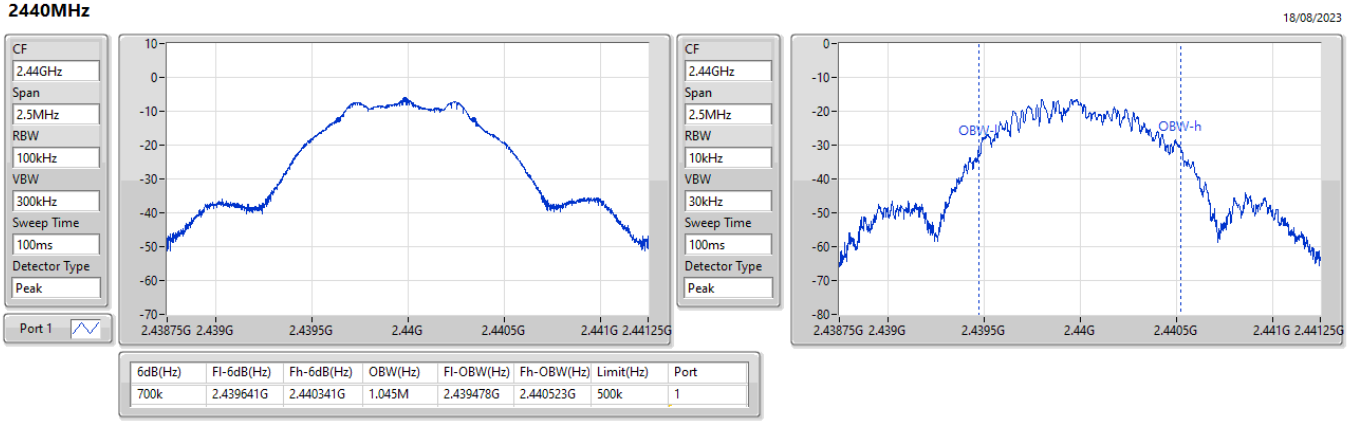
2402MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
696.25k	2.401643G	2.402339G	1.043M	2.401479G	2.402522G	500k	1

2.4-2.4835GHz_BT-LE(1Mbps) **EBW-DTS**

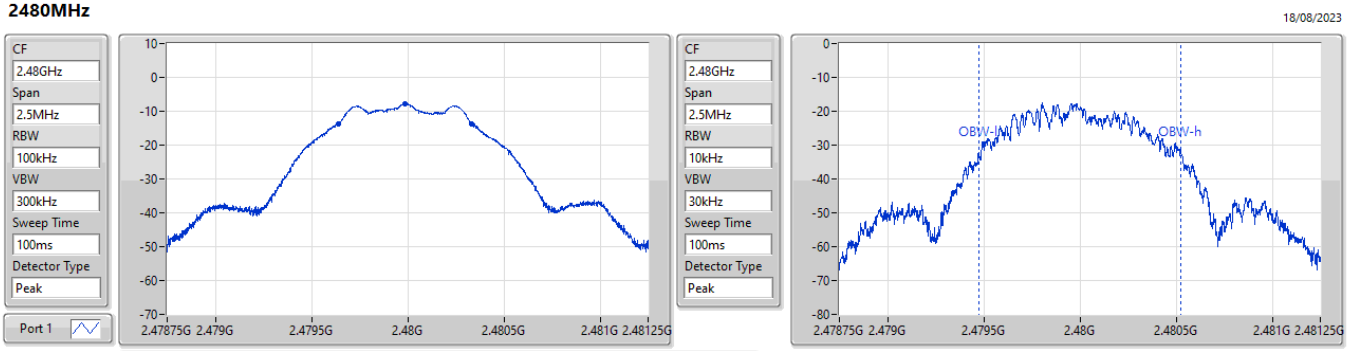
2440MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
700k	2.439641G	2.440341G	1.045M	2.439478G	2.440523G	500k	1

2.4-2.4835GHz_BT-LE(1Mbps) **EBW-DTS**

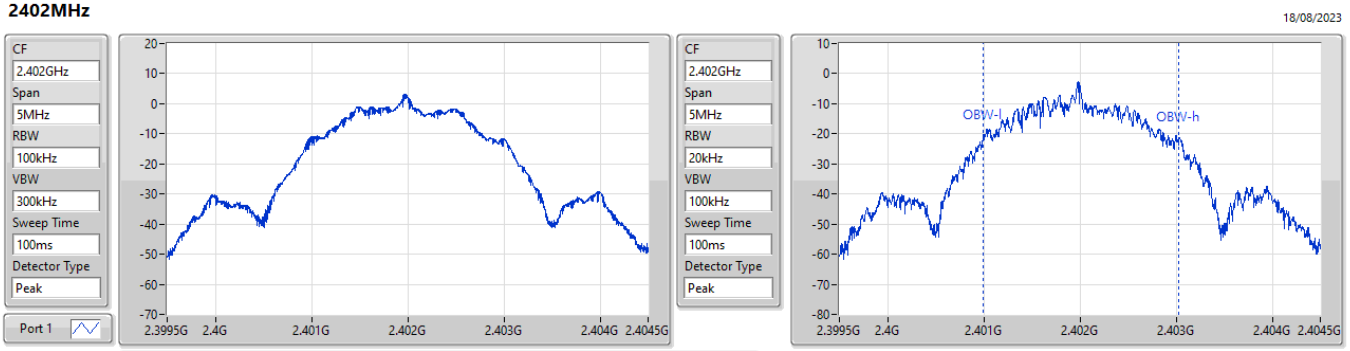
2480MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
695k	2.47964G	2.480335G	1.047M	2.479477G	2.480524G	500k	1

2.4-2.4835GHz_BT-LE(2Mbps) **EBW-DTS**

2402MHz

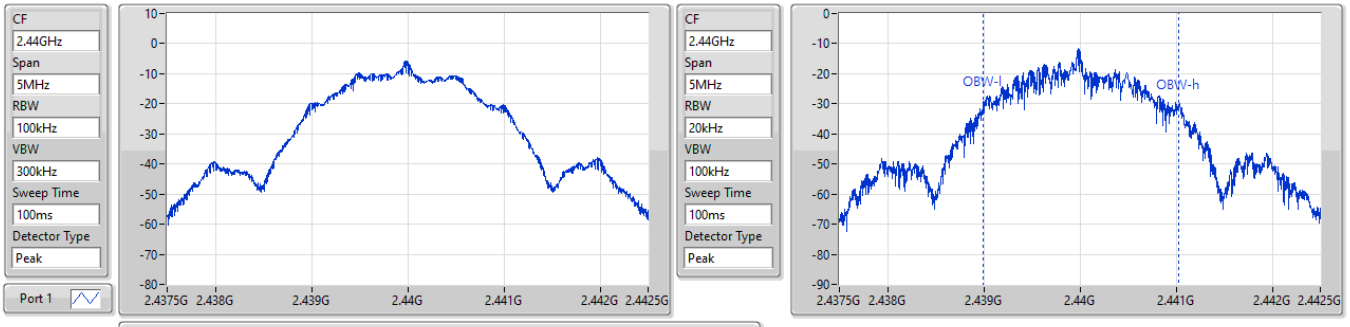


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.14M	2.401425G	2.402565G	2.034M	2.400993G	2.403027G	500k	1

2.4-2.4835GHz_BT-LE(2Mbps) **EBW-DTS**

2440MHz

18/08/2023

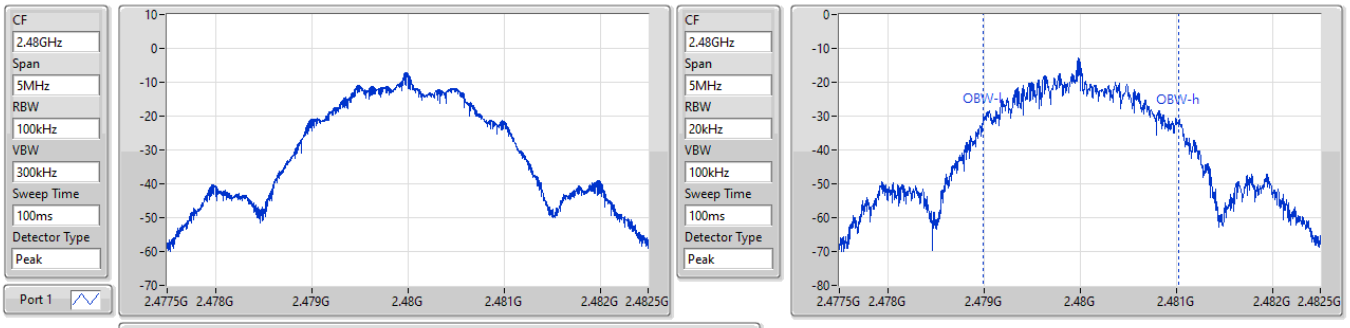


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.13M	2.43943G	2.44056G	2.04M	2.438993G	2.441033G	500k	1

2.4-2.4835GHz_BT-LE(2Mbps) **EBW-DTS**

2480MHz

18/08/2023



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.135M	2.47943G	2.480565G	2.038M	2.478992G	2.48103G	500k	1

Summary

Mode	Total Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	1.96	0.00157
BT-LE(2Mbps)	1.84	0.00153

Result

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	1.50	1.96	30.00
2404MHz	Pass	1.50	1.95	30.00
2440MHz	Pass	1.50	-7.09	30.00
2480MHz	Pass	1.50	-8.37	30.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	1.50	1.84	30.00
2404MHz	Pass	1.50	1.79	30.00
2440MHz	Pass	1.50	-7.33	30.00
2480MHz	Pass	1.50	-8.56	30.00

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

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
BT-LE(1Mbps)	-12.58
BT-LE(2Mbps)	-15.20

RBW = 3kHz;

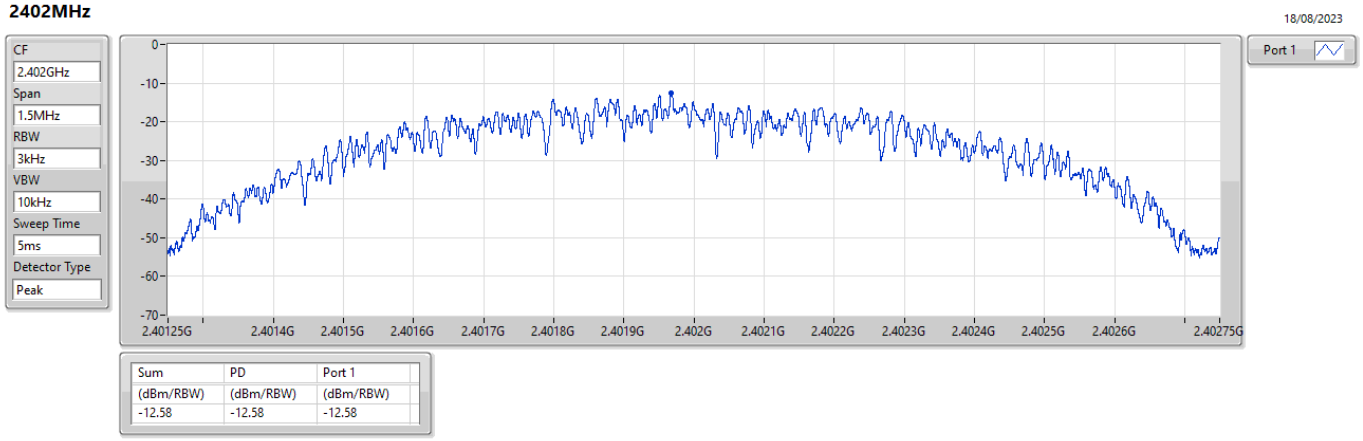
Result

Mode	Result	DG (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	1.50	-12.58	8.00
2440MHz	Pass	1.50	-21.72	8.00
2480MHz	Pass	1.50	-23.02	8.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	1.50	-15.20	8.00
2440MHz	Pass	1.50	-24.34	8.00
2480MHz	Pass	1.50	-25.53	8.00

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

2.4-2.4835GHz_BT-LE(1Mbps) **PSD**

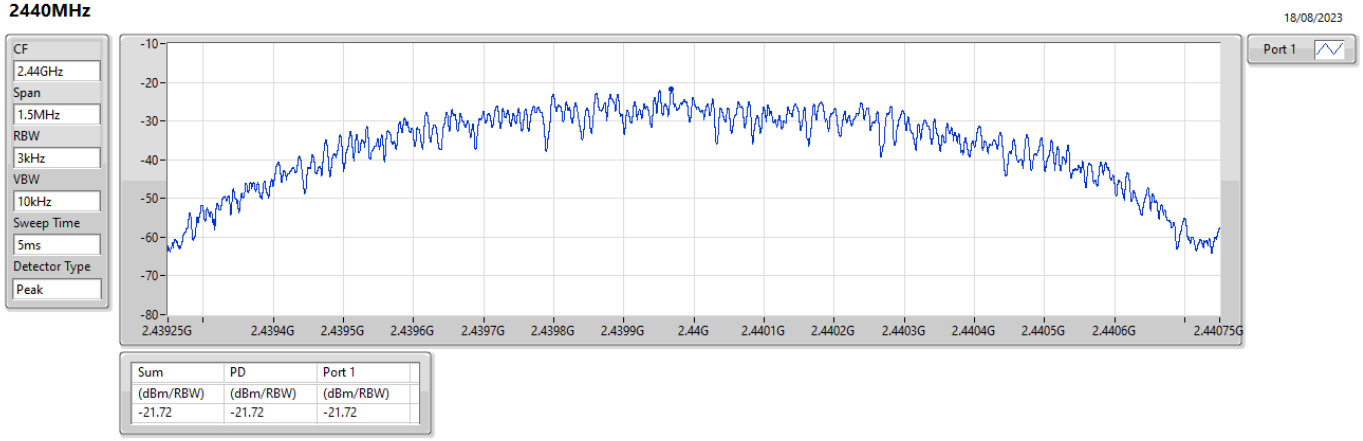
2402MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-12.58	-12.58	-12.58

2.4-2.4835GHz_BT-LE(1Mbps) **PSD**

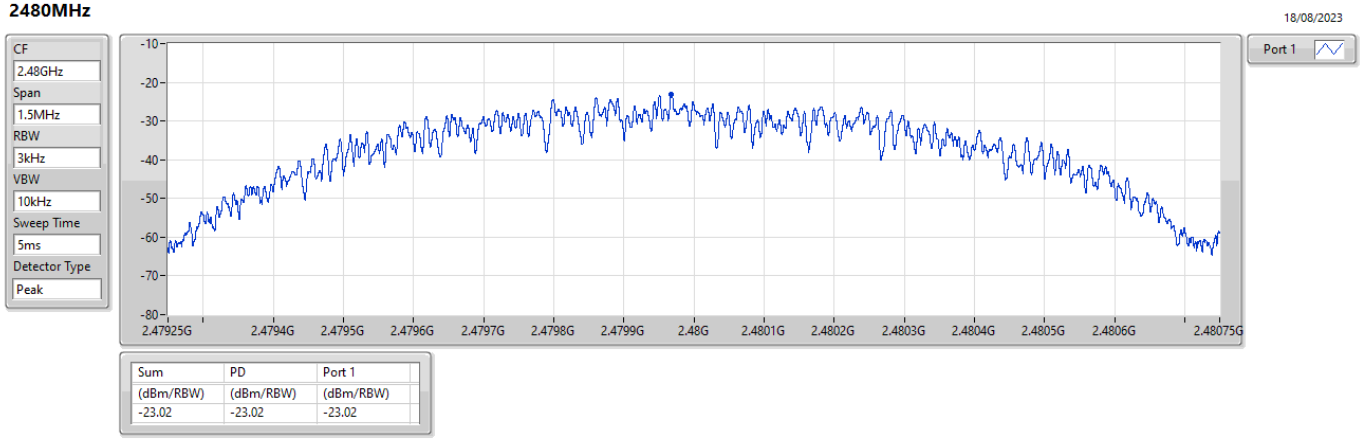
2440MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-21.72	-21.72	-21.72

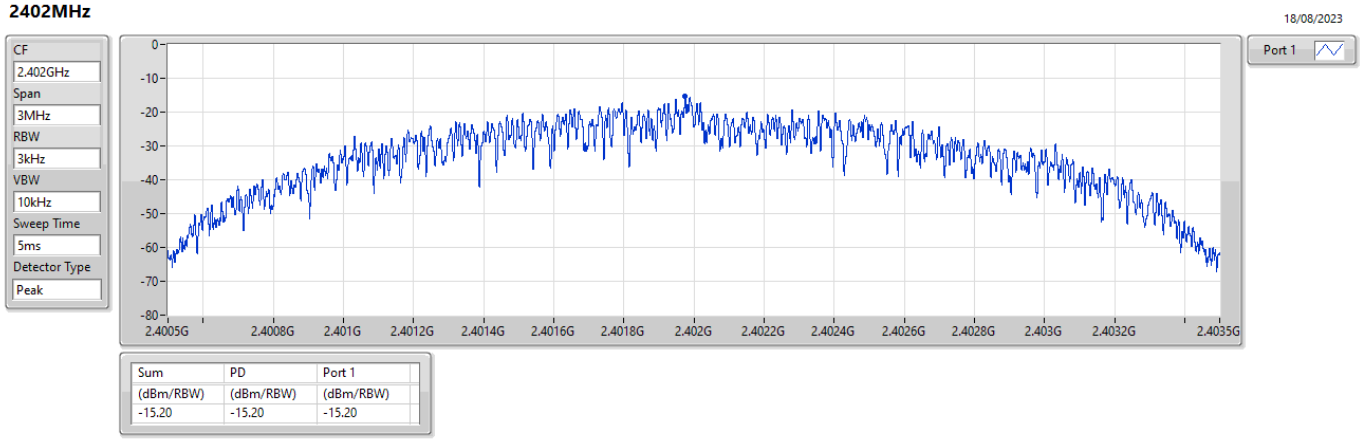
2.4-2.4835GHz_BT-LE(1Mbps) **PSD**

2480MHz



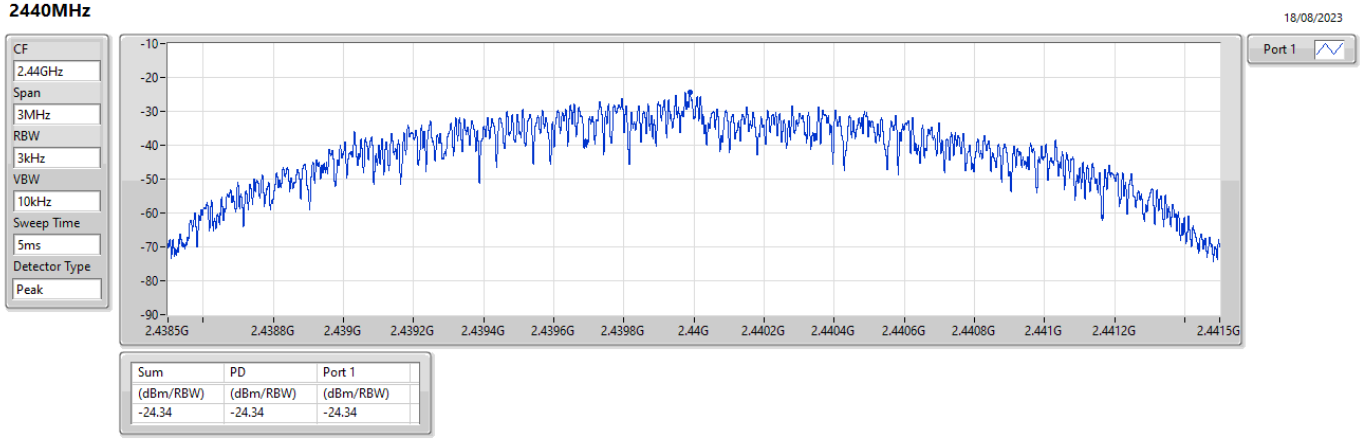
2.4-2.4835GHz_BT-LE(2Mbps) **PSD**

2402MHz



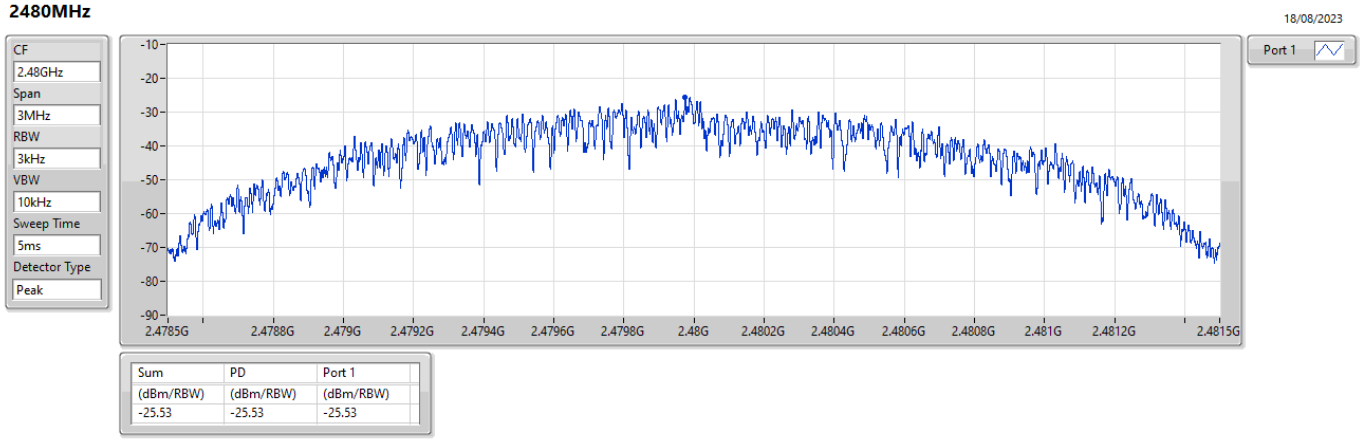
2.4-2.4835GHz_BT-LE(2Mbps) **PSD**

2440MHz



2.4-2.4835GHz_BT-LE(2Mbps) **PSD**

2480MHz



Summary

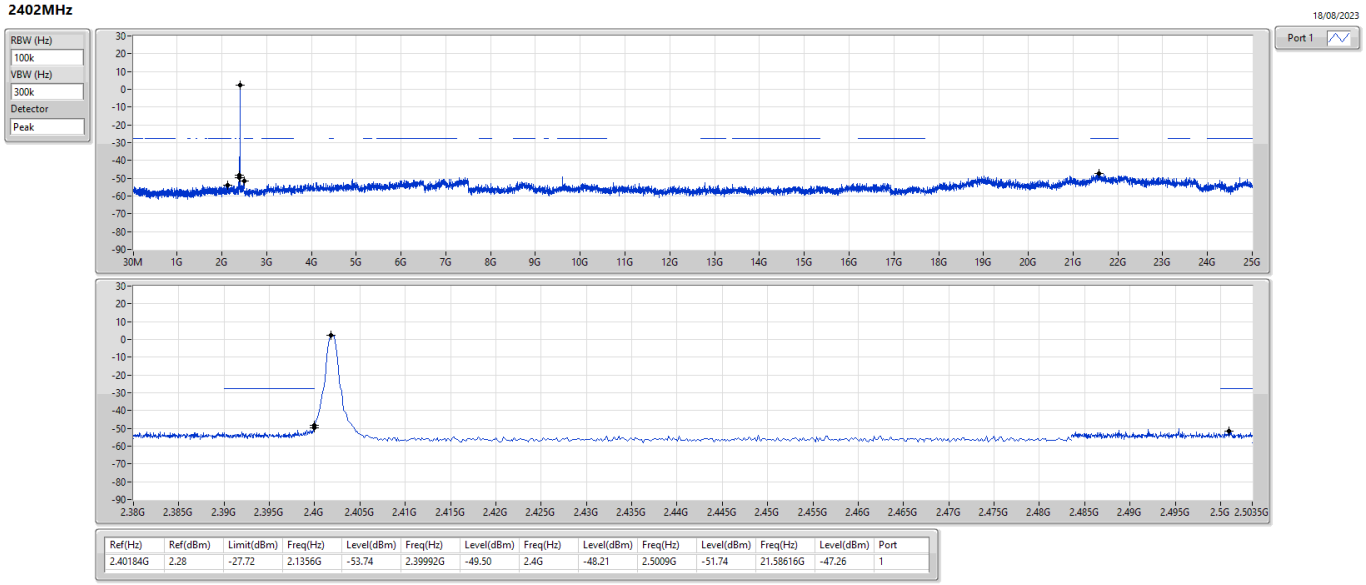
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	2.40184G	2.28	-27.72	2.1356G	-53.74	2.39992G	-49.50	2.4G	-48.21	2.5009G	-51.74	21.58616G	-47.26	1
BT-LE(2Mbps)	Pass	2.40184G	2.33	-27.67	2.19788G	-53.21	2.4G	-30.18	2.4G	-30.89	2.50066G	-52.60	21.70426G	-47.85	1

Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40184G	2.28	-27.72	2.1356G	-53.74	2.39992G	-49.50	2.4G	-48.21	2.5009G	-51.74	21.58616G	-47.26	1
2440MHz	Pass	2.40184G	2.28	-27.72	102.85M	-52.77	2.39848G	-51.62	2.4G	-55.98	2.50034G	-50.81	21.61428G	-46.79	1
2480MHz	Pass	2.40184G	2.28	-27.72	2.0087G	-53.50	2.39232G	-51.81	2.4G	-56.20	2.50014G	-52.50	21.62834G	-47.24	1
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40184G	2.33	-27.67	2.19788G	-53.21	2.4G	-30.18	2.4G	-30.89	2.50066G	-52.60	21.70426G	-47.85	1
2440MHz	Pass	2.40184G	2.33	-27.67	81.7M	-54.17	2.39788G	-52.28	2.4G	-56.45	2.5025G	-52.41	21.63959G	-46.67	1
2480MHz	Pass	2.40184G	2.33	-27.67	1.71143G	-52.91	2.39824G	-51.76	2.4G	-56.92	2.50238G	-51.99	21.42868G	-47.29	1

2.4-2.4835GHz_BT-LE(1Mbps) CSENdB-DTS

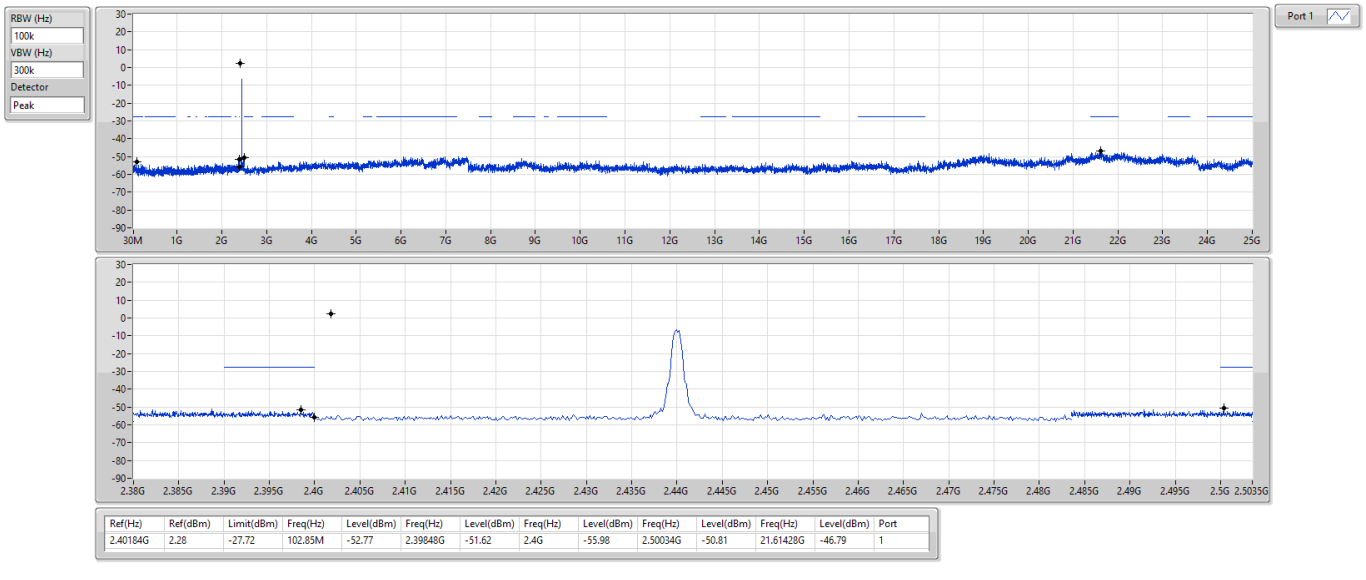
2402MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.40184G	2.28	-27.72	2.1356G	-53.74	2.39992G	-49.50	2.4G	-48.21	2.5009G	-51.74	21.58616G	-47.26	1

2.4-2.4835GHz_BT-LE(1Mbps) CSENdB-DTS

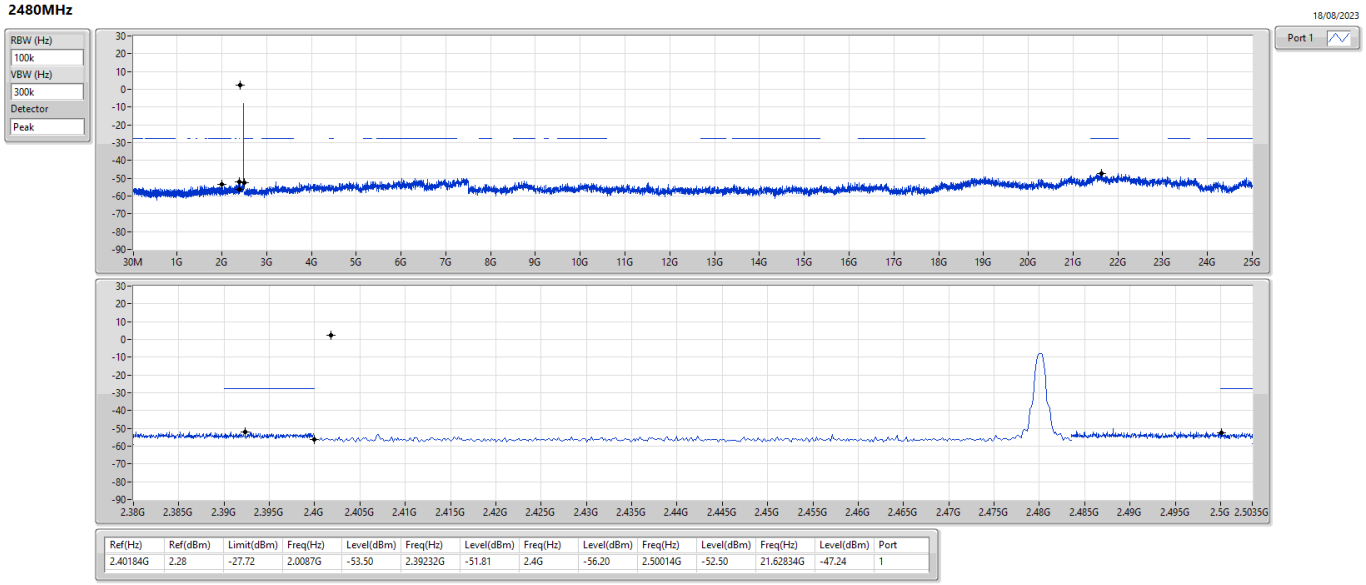
2440MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.40184G	2.28	-27.72	102.85M	-52.77	2.39848G	-51.62	2.4G	-55.98	2.50034G	-50.81	21.61428G	-46.79	1

2.4-2.4835GHz_BT-LE(1Mbps) CSENdB-DTS

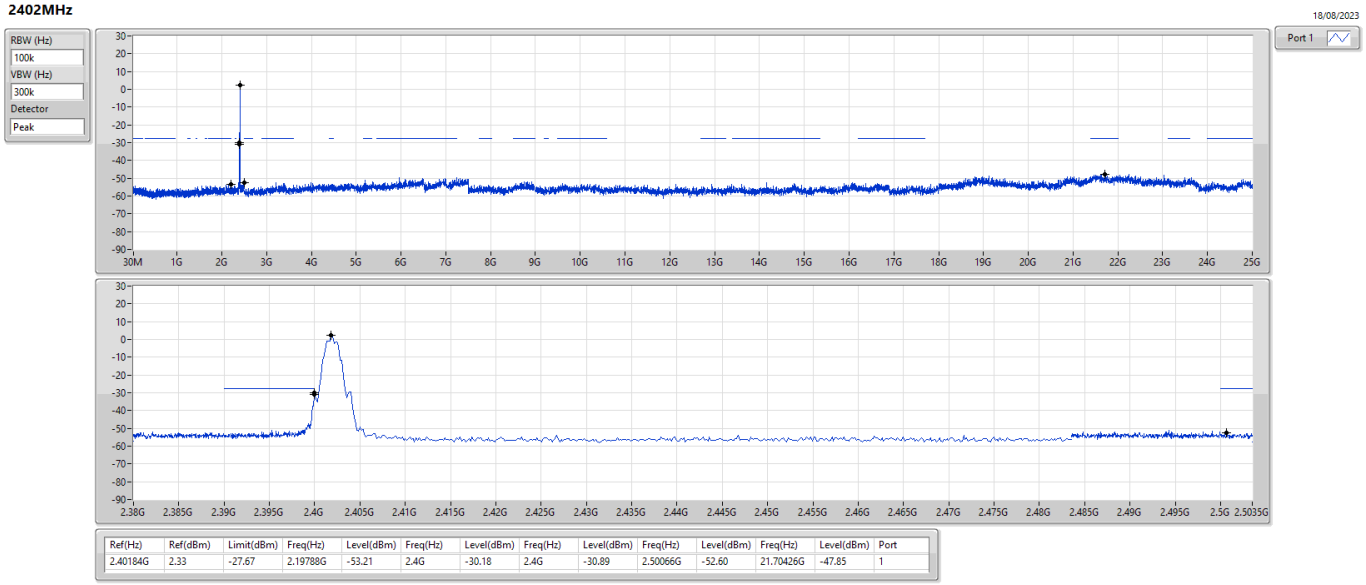
2480MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.40184G	2.28	-27.72	2.0087G	-53.50	2.39232G	-51.81	2.4G	-56.20	2.50014G	-52.50	21.62834G	-47.24	1

2.4-2.4835GHz_BT-LE(2Mbps) CSENdB-DTS

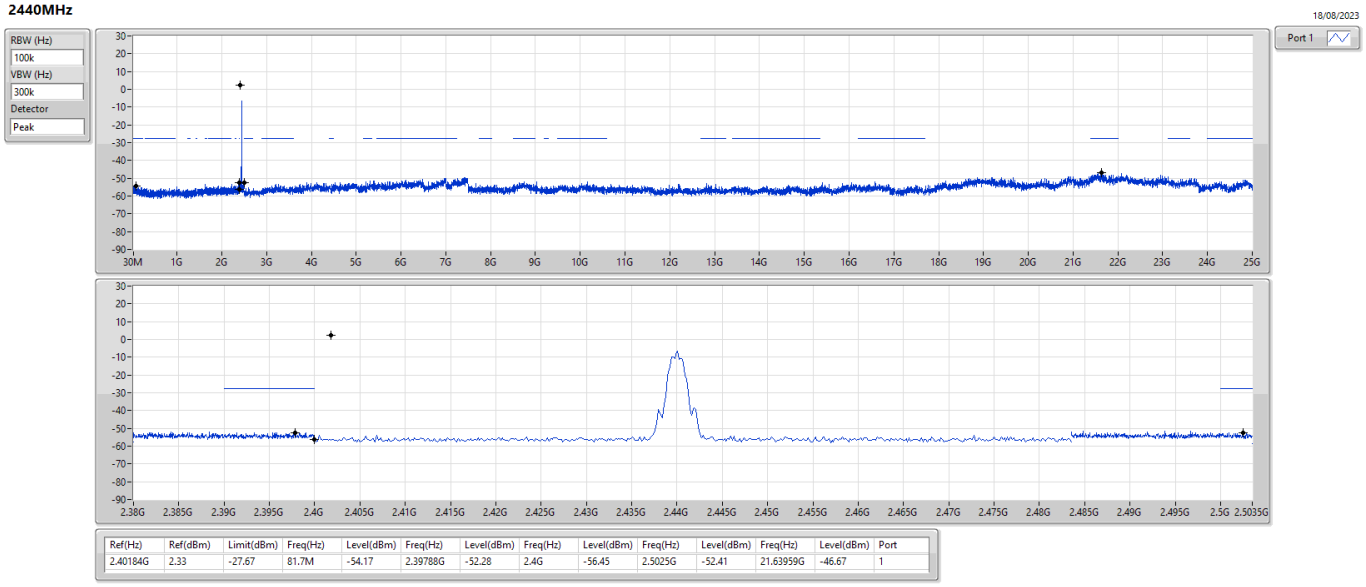
2402MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.40184G	2.33	-27.67	2.19788G	-53.21	2.4G	-30.18	2.4G	-30.89	2.50066G	-52.60	21.70426G	-47.85	1

2.4-2.4835GHz_BT-LE(2Mbps) CSENdB-DTS

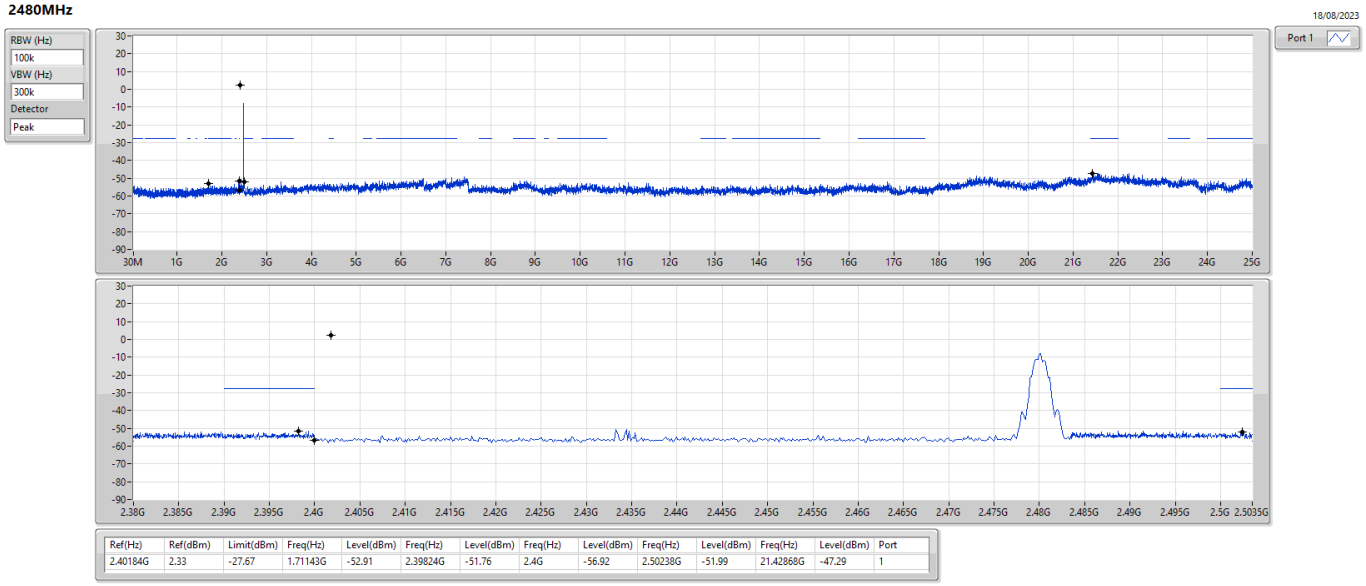
2440MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.40184G	2.33	-27.67	81.7M	-54.17	2.39788G	-52.28	2.4G	-56.45	2.5025G	-52.41	21.63959G	-46.67	1

2.4-2.4835GHz_BT-LE(2Mbps) CSENdB-DTS

2480MHz

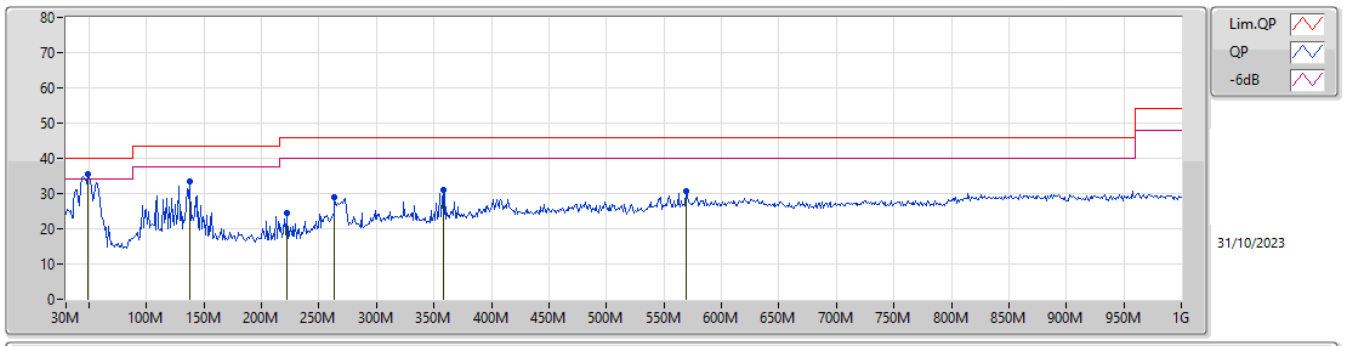


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.40184G	2.33	-27.67	1.71143G	-52.91	2.39824G	-51.76	2.4G	-56.92	2.50238G	-51.99	21.42868G	-47.29	1

Summary

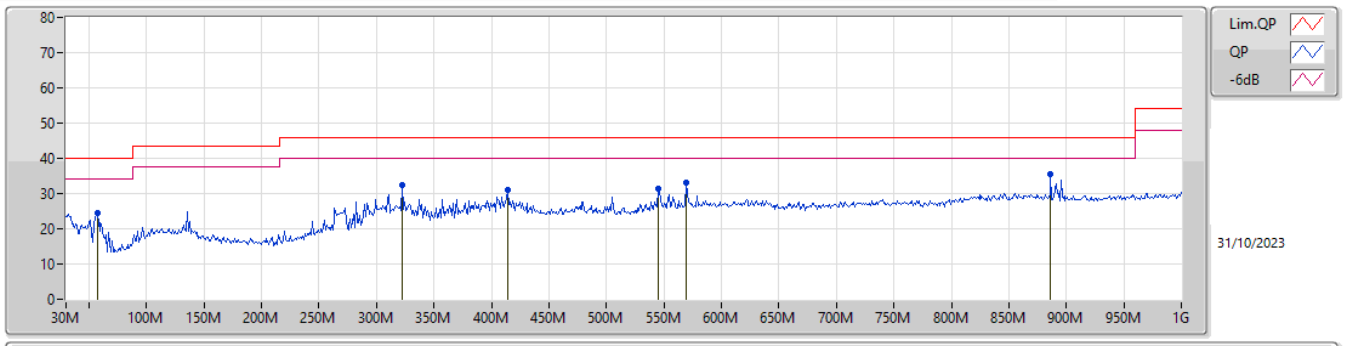
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 4	Pass	PK	49.4M	35.50	40.00	-4.50	Vertical

Mode 4



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	49.4M	35.50	40.00	-4.50	-16.86	3	Vertical	299	1.00	"Worst"	52.36	14.16	0.53	31.55
PK	137.67M	33.58	43.50	-9.92	-12.74	3	Vertical	6	1.25	-	46.32	18.00	1.07	31.81
PK	222.06M	24.32	46.00	-21.68	-14.95	3	Vertical	130	1.00	-	39.27	15.49	1.35	31.79
PK	263.77M	28.80	46.00	-17.20	-11.26	3	Vertical	164	2.00	-	40.06	19.03	1.52	31.81
PK	357.86M	31.04	46.00	-14.96	-9.50	3	Vertical	3	2.00	-	40.54	20.51	1.81	31.82
PK	569.32M	30.62	46.00	-15.38	-5.20	3	Vertical	31	2.90	-	35.82	24.58	2.36	32.14

Mode 4



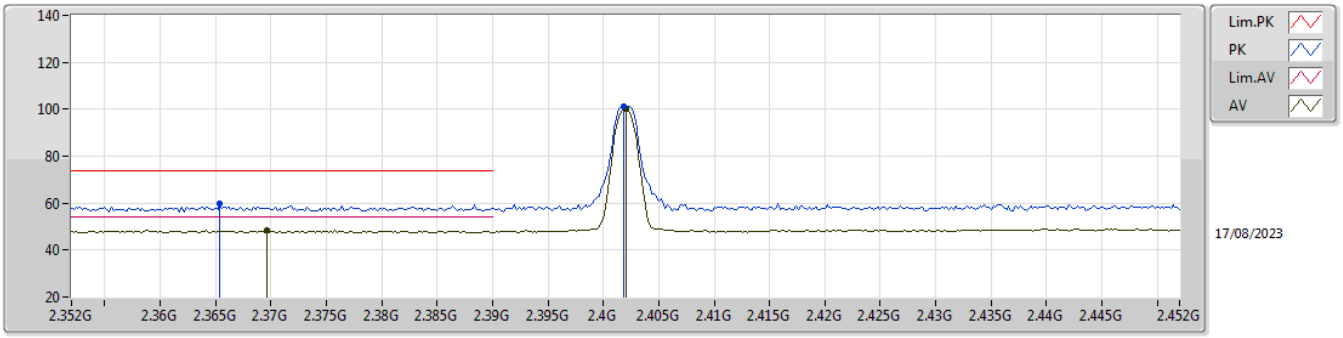
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	57.16M	24.43	40.00	-15.57	-18.25	3	Horizontal	334	3.00	-	42.68	12.89	0.57	31.71
PK	321.97M	32.33	46.00	-13.67	-10.66	3	Horizontal	154	1.00	-	42.99	19.44	1.72	31.82
PK	414.12M	31.08	46.00	-14.92	-7.74	3	Horizontal	115	1.00	-	38.82	22.27	2.00	32.01
PK	545.07M	31.39	46.00	-14.61	-4.95	3	Horizontal	225	2.00	-	36.34	24.87	2.31	32.13
PK	569.32M	33.19	46.00	-12.81	-5.20	3	Horizontal	3	1.00	-	38.39	24.58	2.36	32.14
PK	886.51M	35.62	46.00	-10.38	-2.70	3	Horizontal	95	1.00	"Worst"	38.32	26.50	3.03	32.23

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
BT-LE(2Mbps)	Pass	AV	2.4936G	50.96	54.00	-3.04	3	Vertical	277	2.11	-

2.4-2.4835GHz_BT-LE(1Mbps)

2402MHz_TX

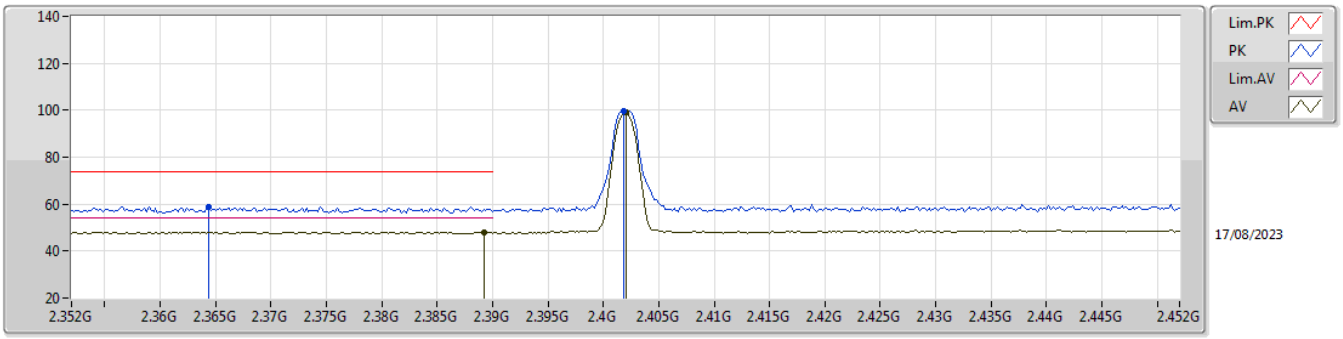


EUT Y_1TX
Setting 8
01-L-G-4

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	2.3654G	59.69	74.00	-14.31	28.39	3	Vertical	273	2.51	-	27.73	3.57	-
AV	2.3696G	48.47	54.00	-5.53	17.16	3	Vertical	273	2.51	-	27.74	3.57	-
PK	2.4018G	101.23	Inf	-Inf	69.83	3	Vertical	273	2.51	-	27.80	3.60	-
AV	2.402G	100.31	Inf	-Inf	68.91	3	Vertical	273	2.51	-	27.80	3.60	-

2.4-2.4835GHz_BT-LE(1Mbps)

2402MHz_TX

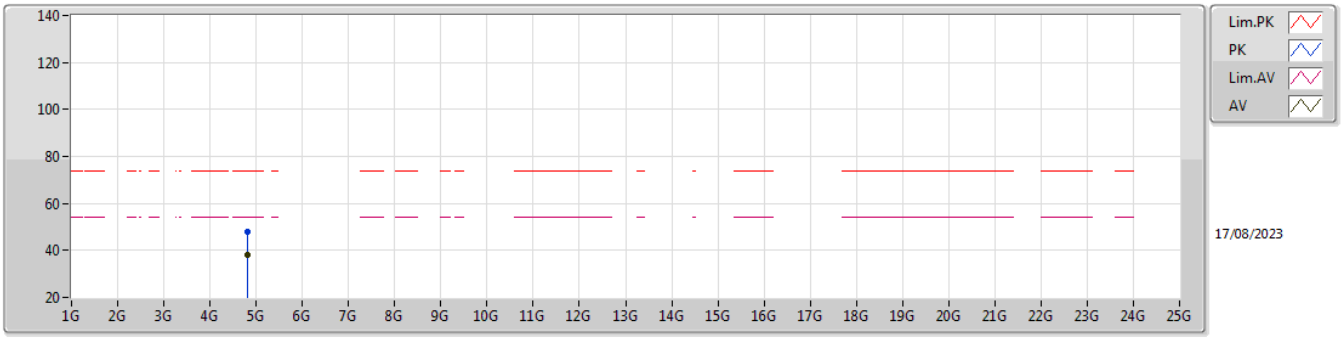


EUT Y_1TX
Setting 8
01-L-G-4

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	2.3644G	58.83	74.00	-15.17	27.54	3	Horizontal	5	2.51	-	27.73	3.56	-
AV	2.3892G	48.11	54.00	-5.89	16.74	3	Horizontal	5	2.51	-	27.78	3.59	-
PK	2.4018G	99.88	Inf	-Inf	68.48	3	Horizontal	5	2.51	-	27.80	3.60	-
AV	2.402G	98.92	Inf	-Inf	67.52	3	Horizontal	5	2.51	-	27.80	3.60	-

2.4-2.4835GHz_BT-LE(1Mbps)

2402MHz_TX

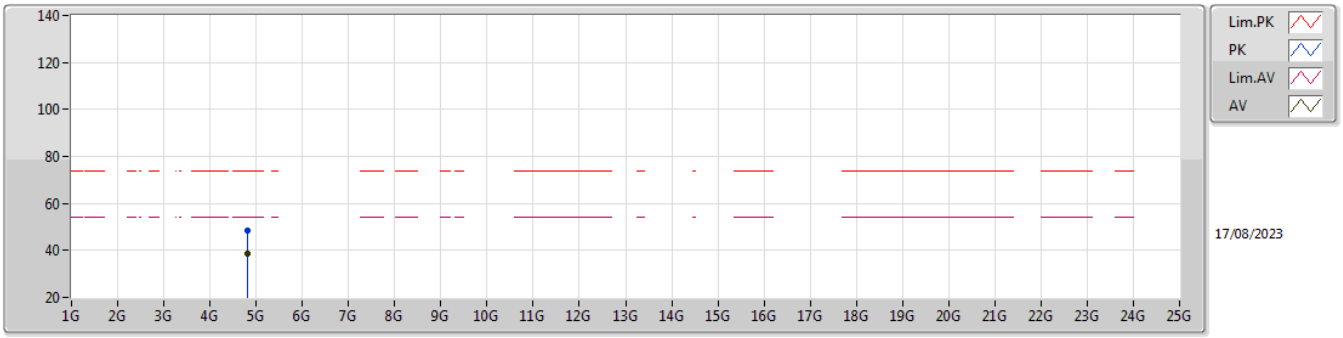


EUT Y_1TX
Setting 8
01-L-G-4

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	4.80402G	47.77	74.00	-26.23	42.32	3	Vertical	179	1.80	-	32.72	5.70	32.97
AV	4.80404G	38.33	54.00	-15.67	32.88	3	Vertical	179	1.80	-	32.72	5.70	32.97

2.4-2.4835GHz_BT-LE(1Mbps)

2402MHz_TX

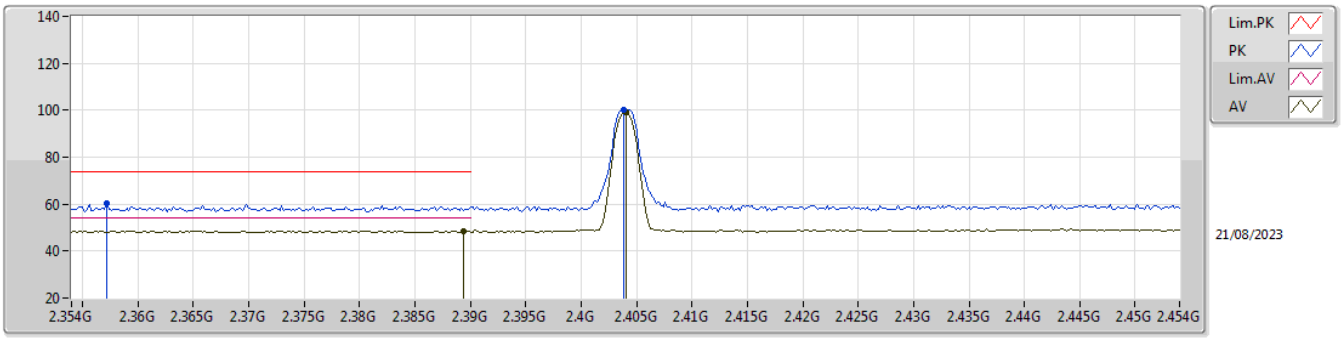


EUT Y_1TX
Setting 8
01-L-G-4

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	4.80422G	48.28	74.00	-25.72	42.82	3	Horizontal	221	1.06	-	32.73	5.70	32.97
AV	4.80376G	38.55	54.00	-15.45	33.10	3	Horizontal	221	1.06	-	32.72	5.70	32.97

2.4-2.4835GHz_BT-LE(1Mbps)

2404MHz_TX

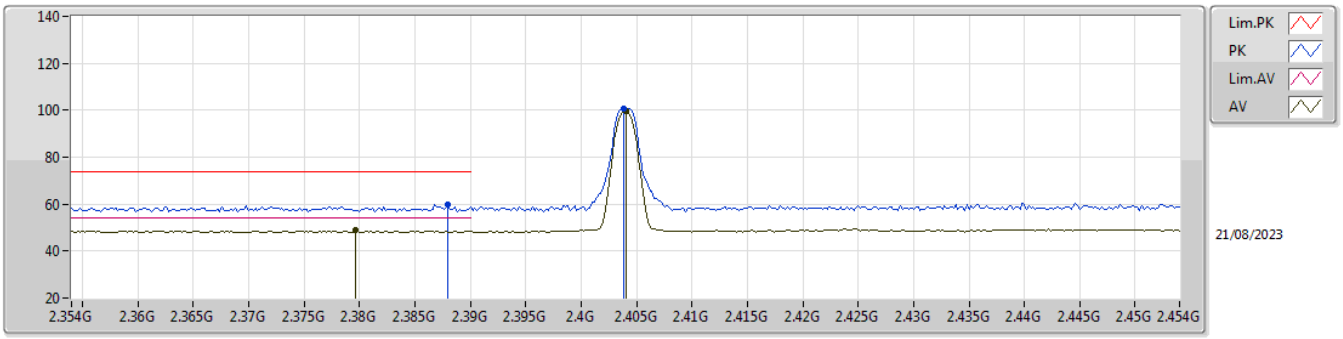


EUT Y_1TX
Setting 8
01-L-G-4

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	2.3572G	60.27	74.00	-13.73	29.00	3	Vertical	88	1.68	-	27.71	3.56	-
AV	2.3894G	48.58	54.00	-5.42	17.21	3	Vertical	88	1.68	-	27.78	3.59	-
PK	2.4038G	100.27	Inf	-Inf	68.86	3	Vertical	88	1.68	-	27.81	3.60	-
AV	2.404G	99.33	Inf	-Inf	67.92	3	Vertical	88	1.68	-	27.81	3.60	-

2.4-2.4835GHz_BT-LE(1Mbps)

2404MHz_TX

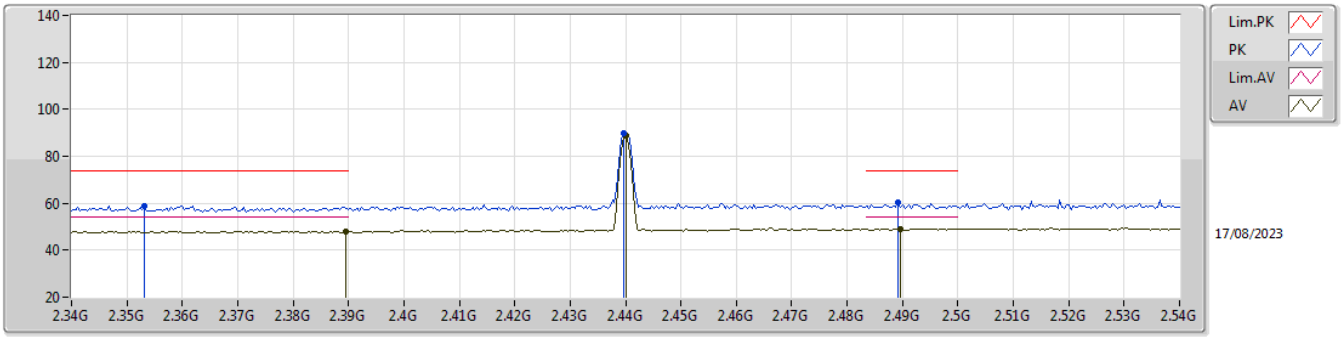


EUT Y_1TX
Setting 8
01-L-G-4

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	2.388G	59.95	74.00	-14.05	28.58	3	Horizontal	12	2.84	-	27.78	3.59	-
AV	2.3796G	48.75	54.00	-5.25	17.41	3	Horizontal	12	2.84	-	27.76	3.58	-
PK	2.4038G	100.68	Inf	-Inf	69.27	3	Horizontal	12	2.84	-	27.81	3.60	-
AV	2.404G	99.77	Inf	-Inf	68.36	3	Horizontal	12	2.84	-	27.81	3.60	-

2.4-2.4835GHz_BT-LE(1Mbps)

2440MHz_TX

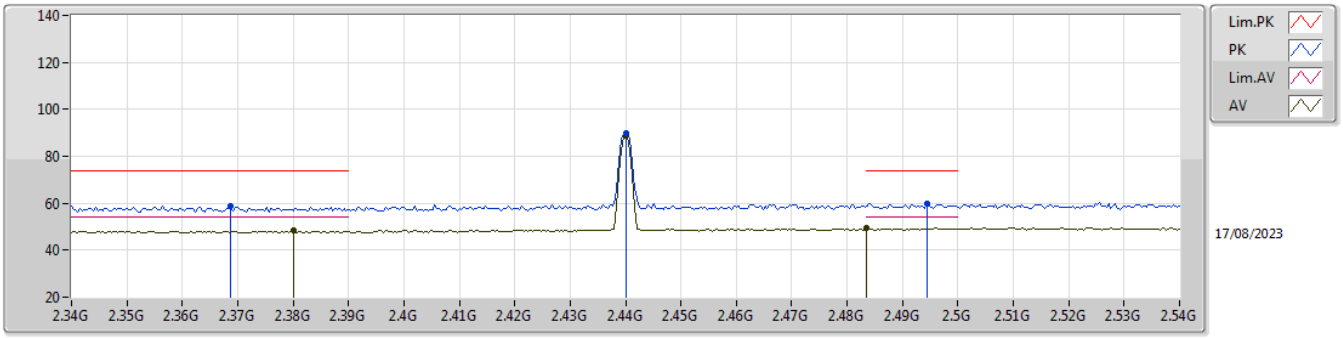


EUT Y_1TX
Setting 0
01-L-G-4

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	2.3532G	58.90	74.00	-15.10	27.64	3	Vertical	276	2.30	-	27.71	3.55	-
AV	2.3896G	48.11	54.00	-5.89	16.74	3	Vertical	276	2.30	-	27.78	3.59	-
PK	2.4396G	89.72	Inf	-Inf	58.22	3	Vertical	276	2.30	-	27.88	3.62	-
AV	2.44G	88.73	Inf	-Inf	57.23	3	Vertical	276	2.30	-	27.88	3.62	-
PK	2.4892G	60.37	74.00	-13.63	28.59	3	Vertical	276	2.30	-	28.14	3.64	-
AV	2.4896G	49.19	54.00	-4.81	17.41	3	Vertical	276	2.30	-	28.14	3.64	-

2.4-2.4835GHz_BT-LE(1Mbps)

2440MHz_TX

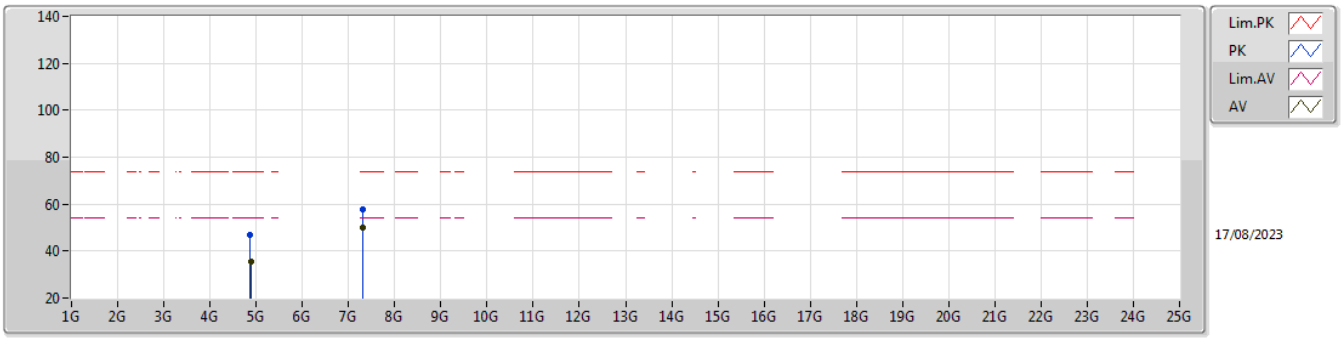


EUT Y_1TX
Setting 0
01-L-G-4

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	2.3688G	58.85	74.00	-15.15	27.54	3	Horizontal	7	3.00	-	27.74	3.57	-
AV	2.38G	48.28	54.00	-5.72	16.94	3	Horizontal	7	3.00	-	27.76	3.58	-
PK	2.44G	89.87	Inf	-Inf	58.37	3	Horizontal	7	3.00	-	27.88	3.62	-
AV	2.44G	88.84	Inf	-Inf	57.34	3	Horizontal	7	3.00	-	27.88	3.62	-
PK	2.4944G	59.65	74.00	-14.35	27.83	3	Horizontal	7	3.00	-	28.17	3.65	-
AV	2.4835G	49.39	54.00	-4.61	17.65	3	Horizontal	7	3.00	-	28.10	3.64	-

2.4-2.4835GHz_BT-LE(1Mbps)

2440MHz_TX

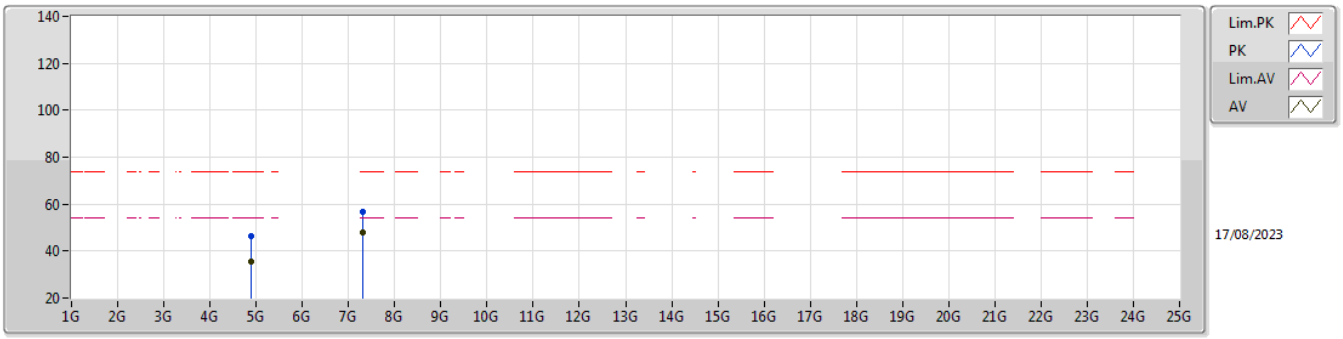


EUT Y_1TX
Setting 0
01-L-G-4

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	4.8762G	46.94	74.00	-27.06	41.12	3	Vertical	216	1.58	-	33.00	5.78	32.96
AV	4.87796G	35.49	54.00	-18.51	29.67	3	Vertical	216	1.58	-	33.00	5.78	32.96
PK	7.3201G	57.88	74.00	-16.12	46.23	3	Vertical	328	1.80	-	37.60	7.16	33.11
AV	7.3193G	50.01	54.00	-3.99	38.36	3	Vertical	328	1.80	-	37.60	7.16	33.11

2.4-2.4835GHz_BT-LE(1Mbps)

2440MHz_TX

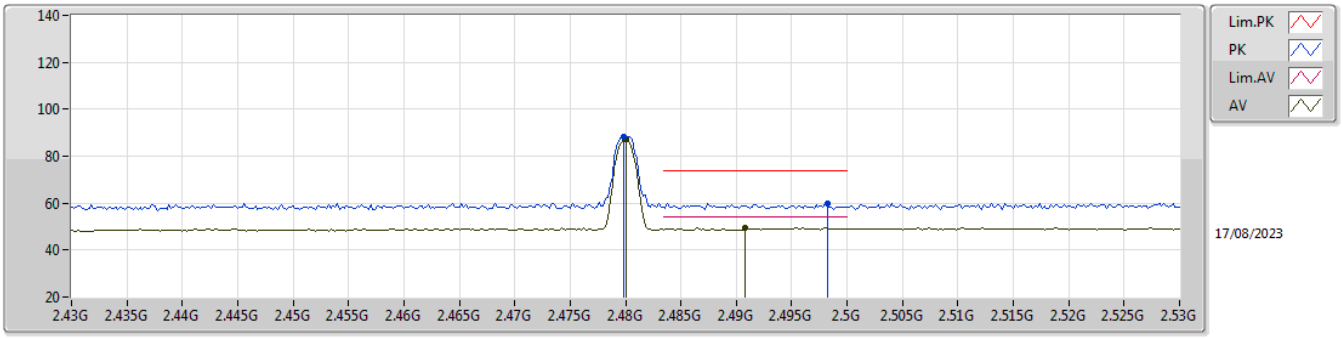


EUT Y_1TX
Setting 0
01-L-G-4

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	4.88044G	46.27	74.00	-27.73	40.45	3	Horizontal	296	1.08	-	33.00	5.78	32.96
AV	4.88334G	35.59	54.00	-18.41	29.77	3	Horizontal	296	1.08	-	33.00	5.78	32.96
PK	7.31932G	56.49	74.00	-17.51	44.84	3	Horizontal	298	2.01	-	37.60	7.16	33.11
AV	7.31926G	48.04	54.00	-5.96	36.39	3	Horizontal	298	2.01	-	37.60	7.16	33.11

2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX

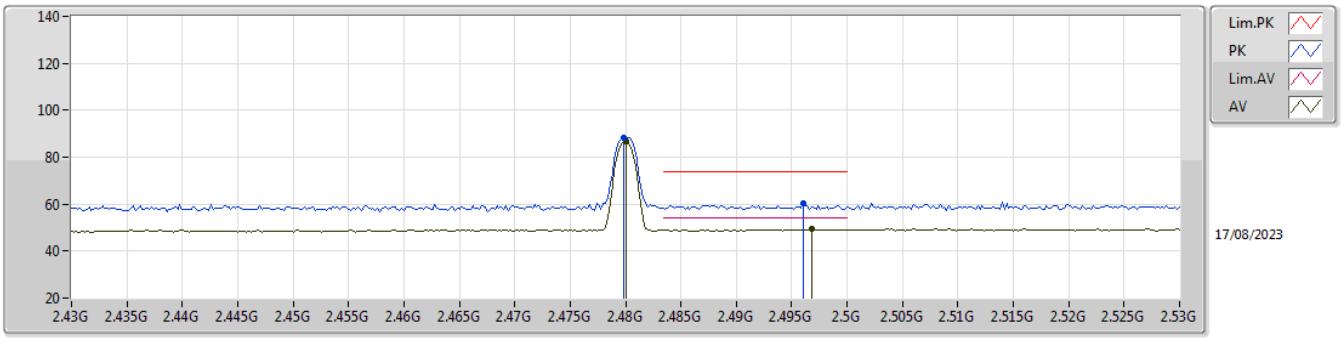


EUT Y_1TX
Setting 0
01-L-G-4

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	2.4798G	88.34	Inf	-Inf	56.62	3	Vertical	265	2.59	-	28.08	3.64	-
AV	2.48G	87.30	Inf	-Inf	55.58	3	Vertical	265	2.59	-	28.08	3.64	-
PK	2.4982G	59.67	74.00	-14.33	27.83	3	Vertical	265	2.59	-	28.19	3.65	-
AV	2.4908G	49.44	54.00	-4.56	17.65	3	Vertical	265	2.59	-	28.14	3.65	-

2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX

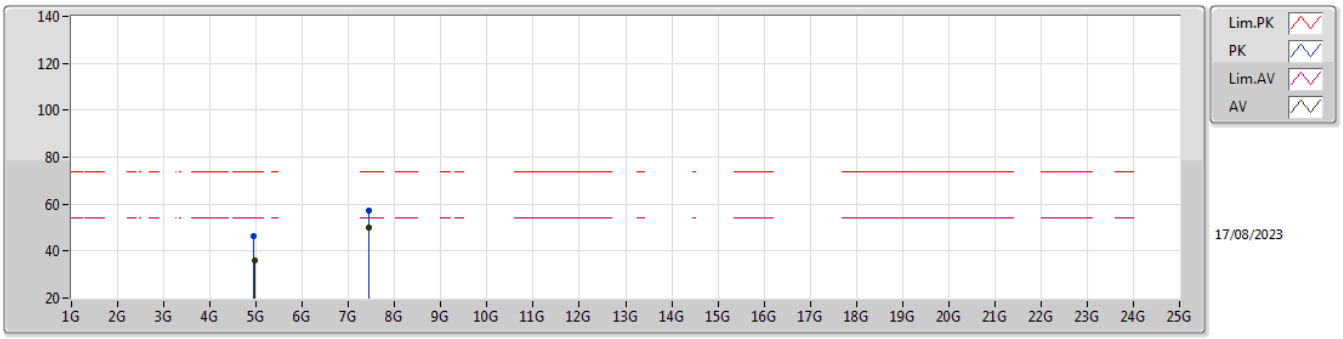


EUT Y_1TX
Setting 0
01-L-G-4

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	2.4798G	88.12	Inf	-Inf	56.40	3	Horizontal	22	2.96	-	28.08	3.64	-
AV	2.48G	86.98	Inf	-Inf	55.26	3	Horizontal	22	2.96	-	28.08	3.64	-
PK	2.496G	60.15	74.00	-13.85	28.32	3	Horizontal	22	2.96	-	28.18	3.65	-
AV	2.4968G	49.24	54.00	-4.76	17.41	3	Horizontal	22	2.96	-	28.18	3.65	-

2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX

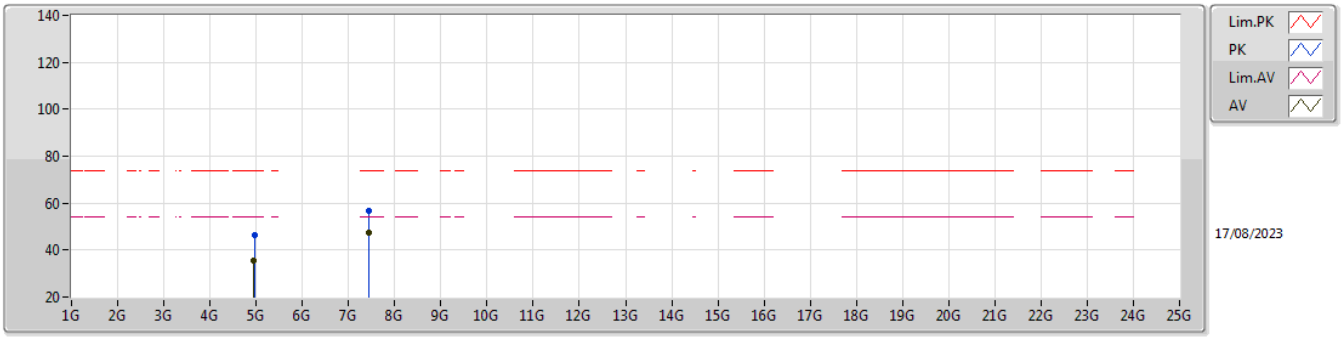


EUT Y_1TX
Setting 0
01-L-G-4

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	4.95512G	46.58	74.00	-27.42	40.65	3	Vertical	303	1.49	-	33.01	5.86	32.94
AV	4.9596G	35.89	54.00	-18.11	29.95	3	Vertical	303	1.49	-	33.02	5.86	32.94
PK	7.44062G	57.20	74.00	-16.80	45.62	3	Vertical	324	1.80	-	37.50	7.22	33.14
AV	7.44932G	50.14	54.00	-3.86	38.56	3	Vertical	324	1.80	-	37.50	7.22	33.14

2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX

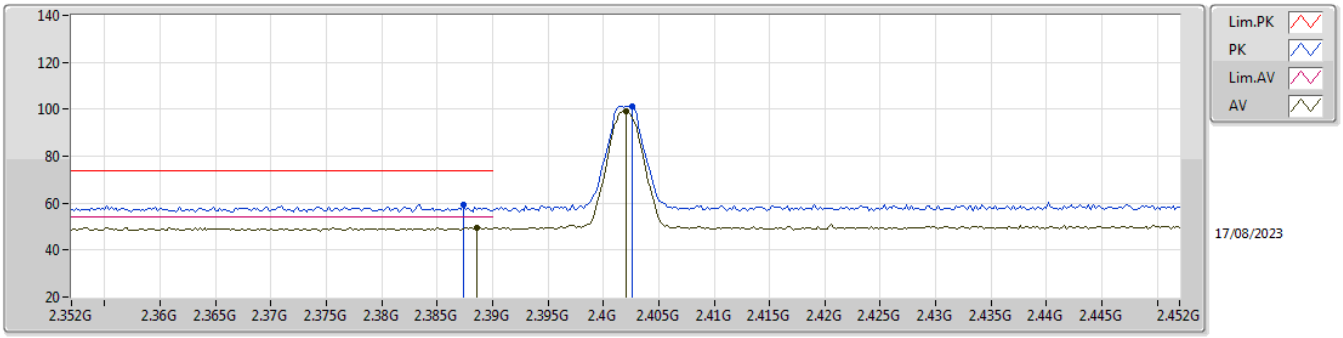


EUT Y_1TX
Setting 0
01-L-G-4

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	4.96288G	46.44	74.00	-27.56	40.49	3	Horizontal	204	2.45	-	33.03	5.86	32.94
AV	4.95506G	35.60	54.00	-18.40	29.67	3	Horizontal	204	2.45	-	33.01	5.86	32.94
PK	7.44068G	56.79	74.00	-17.21	45.21	3	Horizontal	294	2.03	-	37.50	7.22	33.14
AV	7.44942G	47.54	54.00	-6.46	35.96	3	Horizontal	294	2.03	-	37.50	7.22	33.14

2.4-2.4835GHz_BT-LE(2Mbps)

2402MHz_TX

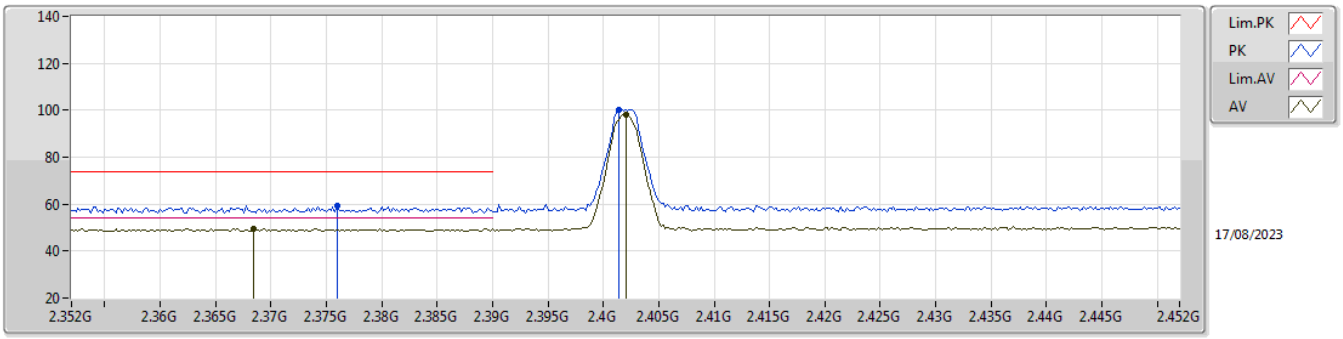


EUT Y_1TX
Setting 8
01-L-G-4

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	59.33	74.00	-14.67	27.97	3	Vertical	270	2.56	-	27.77	3.59	-
AV	2.3886G	49.65	54.00	-4.35	18.28	3	Vertical	270	2.56	-	27.78	3.59	-
PK	2.4026G	101.24	Inf	-Inf	69.83	3	Vertical	270	2.56	-	27.81	3.60	-
AV	2.402G	99.24	Inf	-Inf	67.84	3	Vertical	270	2.56	-	27.80	3.60	-

2.4-2.4835GHz_BT-LE(2Mbps)

2402MHz_TX

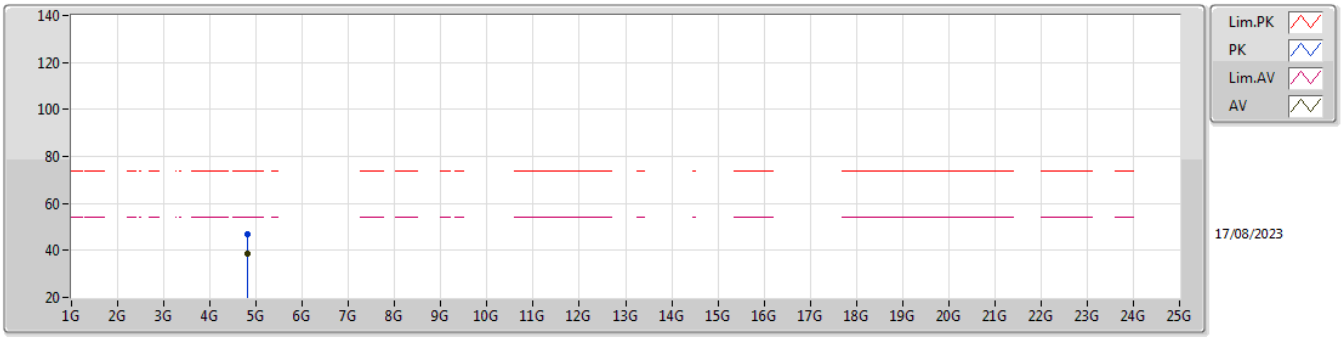


EUT Y_1TX
Setting 8
01-L-G-4

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	2.376G	59.53	74.00	-14.47	28.20	3	Horizontal	6	2.49	-	27.75	3.58	-
AV	2.3684G	49.55	54.00	-4.45	18.24	3	Horizontal	6	2.49	-	27.74	3.57	-
PK	2.4014G	100.08	Inf	-Inf	68.68	3	Horizontal	6	2.49	-	27.80	3.60	-
AV	2.402G	98.06	Inf	-Inf	66.66	3	Horizontal	6	2.49	-	27.80	3.60	-

2.4-2.4835GHz_BT-LE(2Mbps)

2402MHz_TX

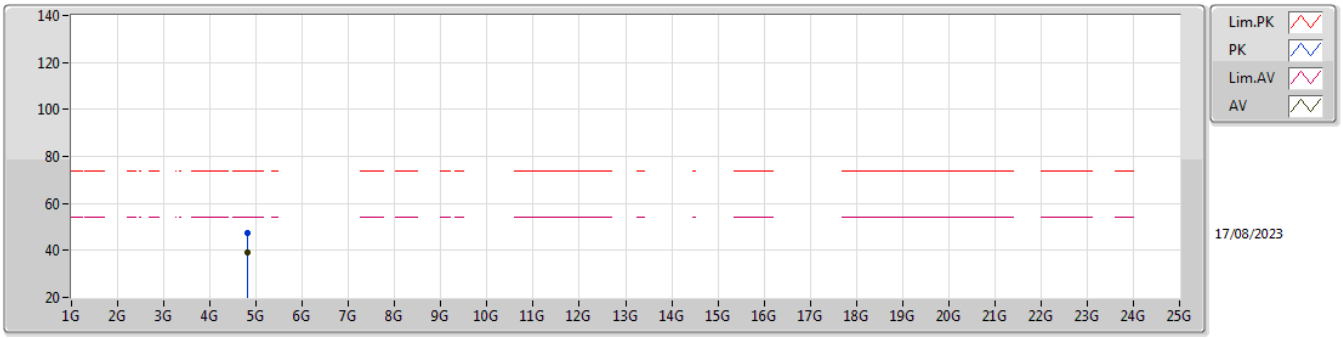


EUT Y_1TX
Setting 8
01-L-G-4

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	4.80326G	46.83	74.00	-27.17	41.38	3	Vertical	179	1.80	-	32.72	5.70	32.97
AV	4.80406G	38.76	54.00	-15.24	33.31	3	Vertical	179	1.80	-	32.72	5.70	32.97

2.4-2.4835GHz_BT-LE(2Mbps)

2402MHz_TX

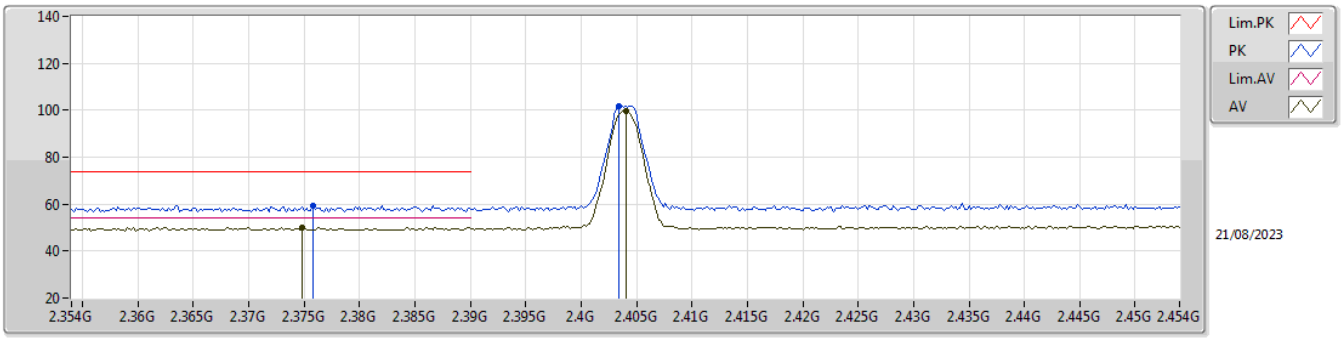


EUT Y_1TX
Setting 8
01-L-G-4

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	4.80288G	47.52	74.00	-26.48	42.07	3	Horizontal	222	1.05	-	32.72	5.70	32.97
AV	4.8041G	39.22	54.00	-14.78	33.77	3	Horizontal	222	1.05	-	32.72	5.70	32.97

2.4-2.4835GHz_BT-LE(2Mbps)

2404MHz_TX

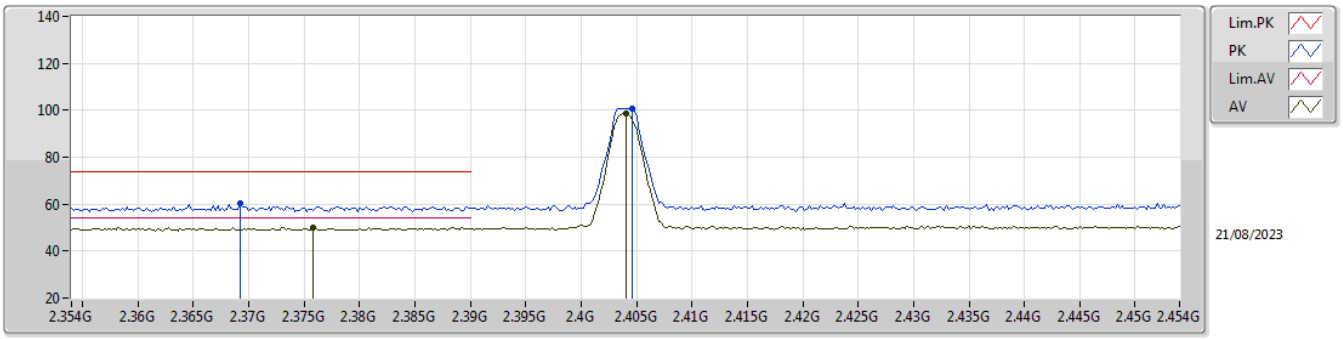


EUT Y_1TX
Setting 8
01-L-G-4

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	2.3758G	59.34	74.00	-14.66	28.01	3	Vertical	273	2.39	-	27.75	3.58	-
AV	2.3748G	50.23	54.00	-3.77	18.91	3	Vertical	273	2.39	-	27.75	3.57	-
PK	2.4034G	101.62	Inf	-Inf	70.21	3	Vertical	273	2.39	-	27.81	3.60	-
AV	2.404G	99.64	Inf	-Inf	68.23	3	Vertical	273	2.39	-	27.81	3.60	-

2.4-2.4835GHz_BT-LE(2Mbps)

2404MHz_TX

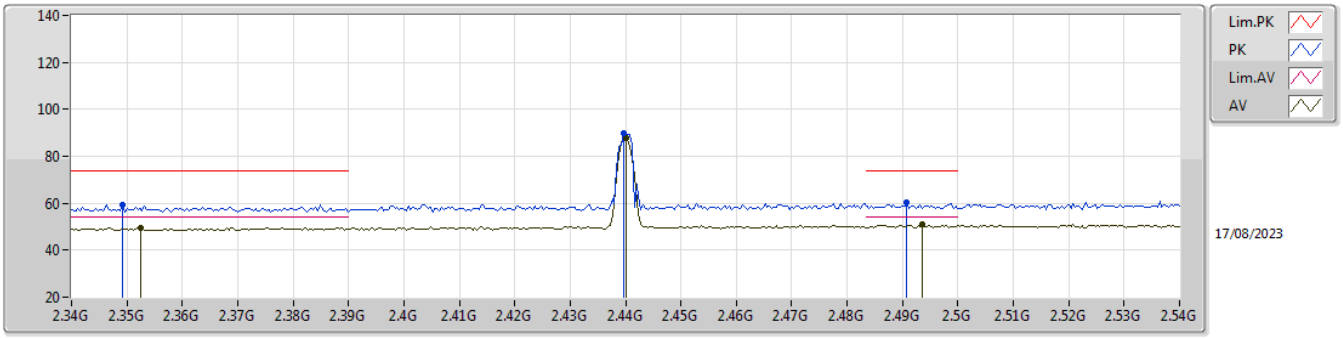


EUT Y_1TX
Setting 8
01-L-G-4

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	2.3692G	60.23	74.00	-13.77	28.92	3	Horizontal	11	2.83	-	27.74	3.57	-
AV	2.3758G	50.24	54.00	-3.76	18.91	3	Horizontal	11	2.83	-	27.75	3.58	-
PK	2.4046G	100.83	Inf	-Inf	69.42	3	Horizontal	11	2.83	-	27.81	3.60	-
AV	2.404G	98.82	Inf	-Inf	67.41	3	Horizontal	11	2.83	-	27.81	3.60	-

2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_TX

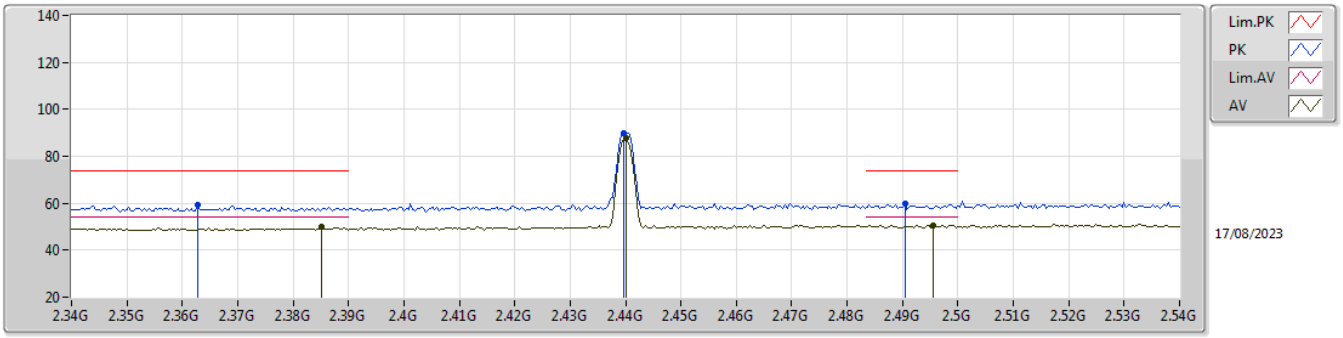


EUT Y_1TX
Setting 0
01-L-G-4

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	2.3492G	59.37	74.00	-14.63	28.12	3	Vertical	277	2.11	-	27.70	3.55	-
AV	2.3524G	49.72	54.00	-4.28	18.47	3	Vertical	277	2.11	-	27.70	3.55	-
PK	2.4396G	89.97	Inf	-Inf	58.47	3	Vertical	277	2.11	-	27.88	3.62	-
AV	2.44G	87.94	Inf	-Inf	56.44	3	Vertical	277	2.11	-	27.88	3.62	-
PK	2.4908G	60.11	74.00	-13.89	28.32	3	Vertical	277	2.11	-	28.14	3.65	-
AV	2.4936G	50.96	54.00	-3.04	19.15	3	Vertical	277	2.11	-	28.16	3.65	-

2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_TX

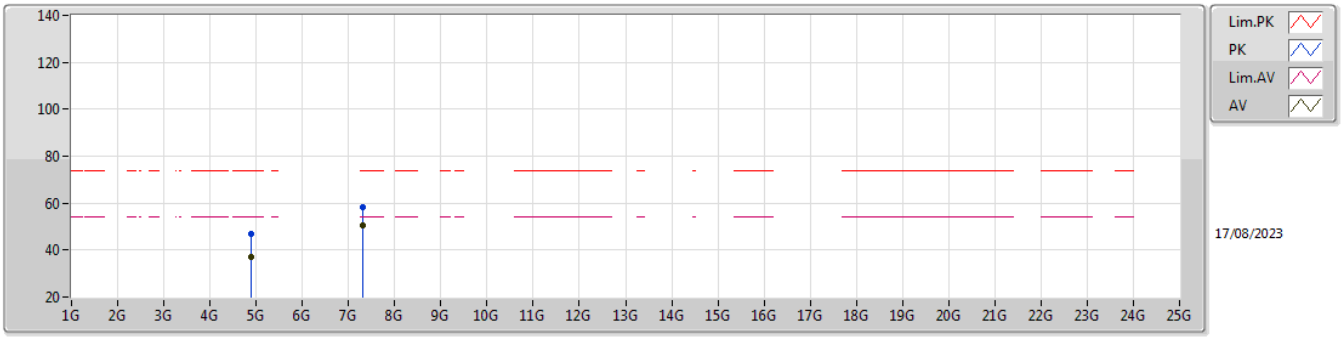


EUT Y_1TX
Setting 0
01-L-G-4

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	2.3628G	59.36	74.00	-14.64	28.07	3	Horizontal	8	3.00	-	27.73	3.56	-
AV	2.3852G	49.81	54.00	-4.19	18.45	3	Horizontal	8	3.00	-	27.77	3.59	-
PK	2.4396G	89.70	Inf	-Inf	58.20	3	Horizontal	8	3.00	-	27.88	3.62	-
AV	2.44G	87.54	Inf	-Inf	56.04	3	Horizontal	8	3.00	-	27.88	3.62	-
PK	2.4904G	59.97	74.00	-14.03	28.18	3	Horizontal	8	3.00	-	28.14	3.65	-
AV	2.4956G	50.77	54.00	-3.23	18.95	3	Horizontal	8	3.00	-	28.17	3.65	-

2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_TX

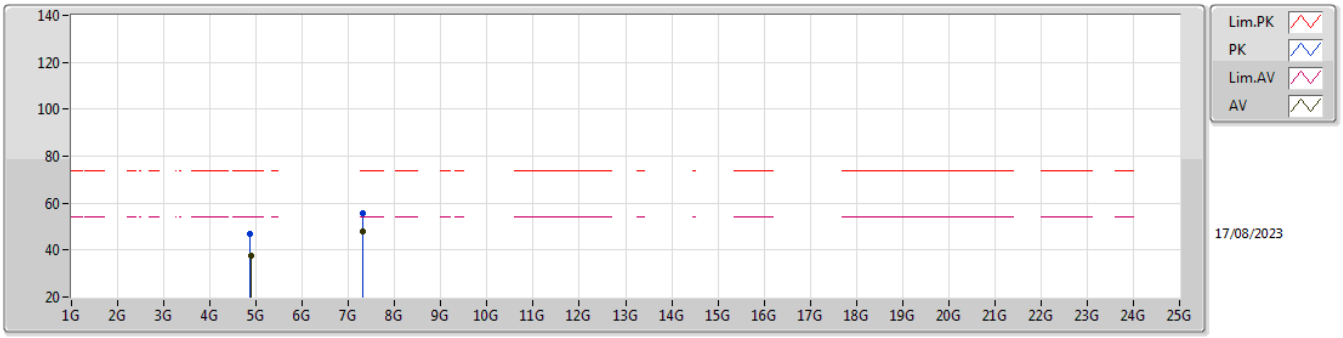


EUT Y_1TX
Setting 0
01-L-G-4

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	4.88086G	46.91	74.00	-27.09	41.09	3	Vertical	4	2.98	-	33.00	5.78	32.96
AV	4.88196G	37.14	54.00	-16.86	31.32	3	Vertical	4	2.98	-	33.00	5.78	32.96
PK	7.31852G	58.19	74.00	-15.81	46.54	3	Vertical	326	1.80	-	37.60	7.16	33.11
AV	7.31862G	50.54	54.00	-3.46	38.89	3	Vertical	326	1.80	-	37.60	7.16	33.11

2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_TX

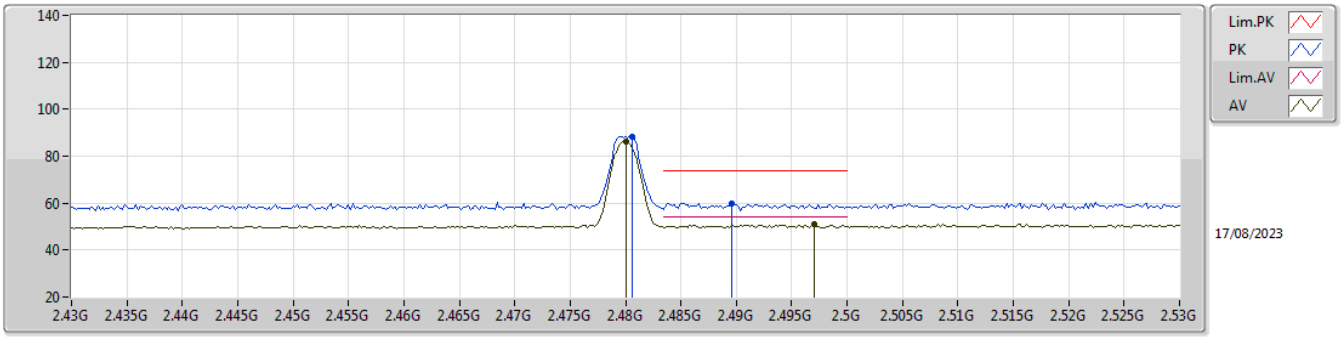


EUT Y_1TX
Setting 0
01-L-G-4

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	4.87506G	46.83	74.00	-27.17	41.01	3	Horizontal	185	2.67	-	33.00	5.78	32.96
AV	4.88186G	37.34	54.00	-16.66	31.52	3	Horizontal	185	2.67	-	33.00	5.78	32.96
PK	7.3215G	55.72	74.00	-18.28	44.07	3	Horizontal	302	1.80	-	37.60	7.16	33.11
AV	7.32004G	48.10	54.00	-5.90	36.45	3	Horizontal	302	1.80	-	37.60	7.16	33.11

2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX

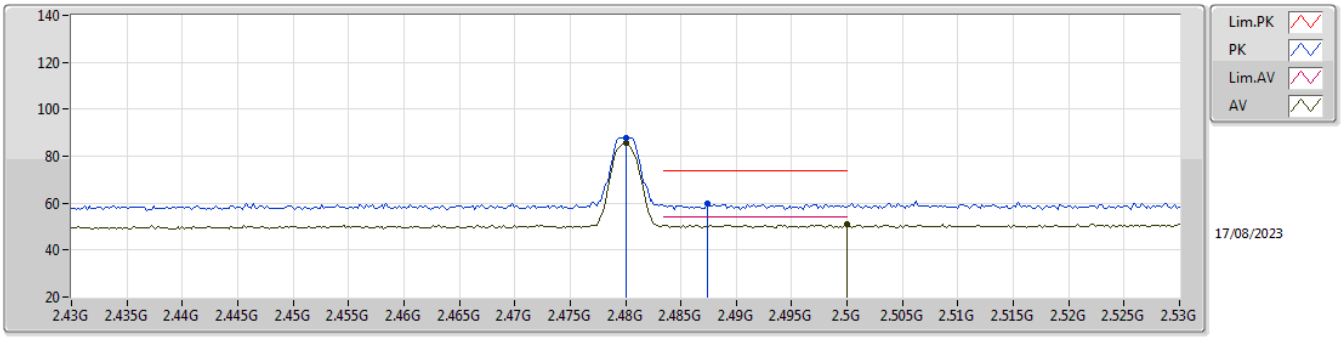


EUT Y_1TX
Setting 0
01-L-G-4

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	2.4806G	88.18	Inf	-Inf	56.46	3	Vertical	273	2.23	-	28.08	3.64	-
AV	2.48G	86.04	Inf	-Inf	54.32	3	Vertical	273	2.23	-	28.08	3.64	-
PK	2.4896G	60.03	74.00	-13.97	28.25	3	Vertical	273	2.23	-	28.14	3.64	-
AV	2.497G	50.78	54.00	-3.22	18.95	3	Vertical	273	2.23	-	28.18	3.65	-

2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX

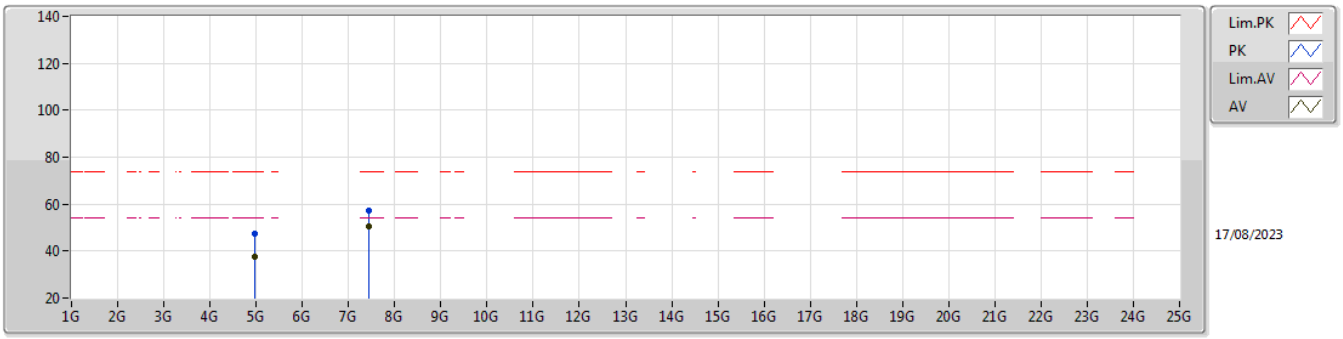


EUT Y_1TX
Setting 0
01-L-G-4

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	2.48G	87.64	Inf	-Inf	55.92	3	Horizontal	17	2.63	-	28.08	3.64	-
AV	2.48G	85.51	Inf	-Inf	53.79	3	Horizontal	17	2.63	-	28.08	3.64	-
PK	2.4874G	60.08	74.00	-13.92	28.32	3	Horizontal	17	2.63	-	28.12	3.64	-
AV	2.5G	50.80	54.00	-3.20	18.95	3	Horizontal	17	2.63	-	28.20	3.65	-

2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX

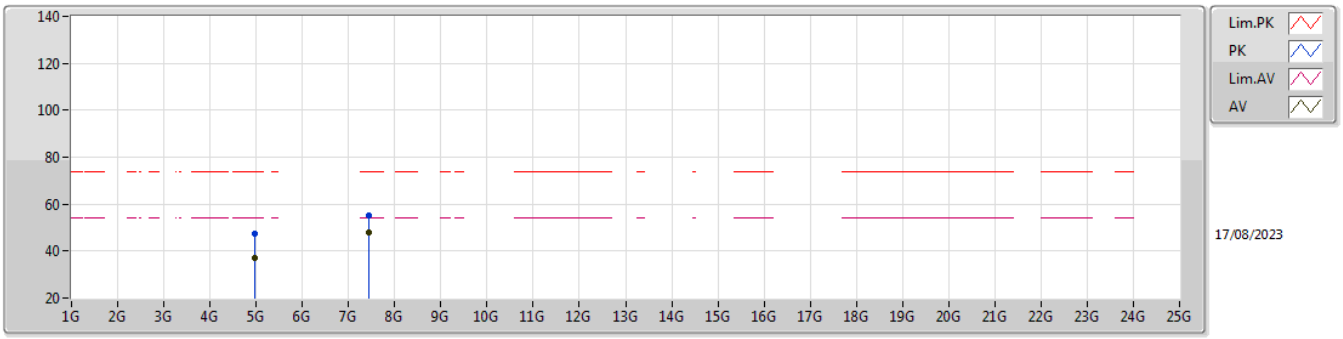


EUT Y_1TX
Setting 0
01-L-G-4

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	4.95918G	47.60	74.00	-26.40	41.66	3	Vertical	27	2.35	-	33.02	5.86	32.94
AV	4.95712G	37.58	54.00	-16.42	31.65	3	Vertical	27	2.35	-	33.01	5.86	32.94
PK	7.43992G	57.14	74.00	-16.86	45.56	3	Vertical	332	1.80	-	37.50	7.22	33.14
AV	7.43868G	50.54	54.00	-3.46	38.96	3	Vertical	332	1.80	-	37.50	7.22	33.14

2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX



EUT Y_1TX
Setting 0
01-L-G-4

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	4.95786G	47.18	74.00	-26.82	41.24	3	Horizontal	272	2.02	-	33.02	5.86	32.94
AV	4.95646G	37.26	54.00	-16.74	31.33	3	Horizontal	272	2.02	-	33.01	5.86	32.94
PK	7.43836G	55.31	74.00	-18.69	43.73	3	Horizontal	306	1.97	-	37.50	7.22	33.14
AV	7.43998G	47.77	54.00	-6.23	36.19	3	Horizontal	306	1.97	-	37.50	7.22	33.14