

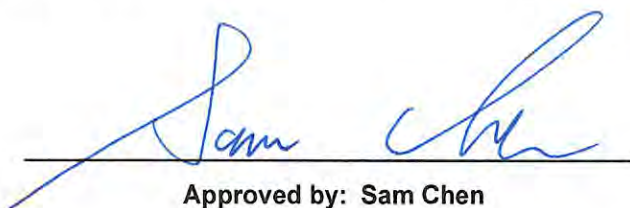


RADIO TEST REPORT

FCC ID : RAXAIOS7
Equipment : HEOS 7.0 Platform Module
Brand Name : Arcadyan
Model Name : WN9722OAX22-DM (AIOS7.0)
Applicant : Arcadyan Technology Corporation
No.8, Sec.2, Guangfu Rd., Hsinchu, 30071 Taiwan
Manufacturer : Arcadyan Technology Corporation
No.8, Sec.2, Guangfu Rd., Hsinchu, 30071 Taiwan
Standard : 47 CFR FCC Part 15.247

The product was received on Feb. 02, 2023, and testing was started from Feb. 10, 2023 and completed on Mar. 08, 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.)



Table of Contents

History of this test report.....3

Summary of Test Result.....4

1 General Description5

1.1 Information.....5

1.2 Applicable Standards9

1.3 Testing Location Information9

1.4 Measurement Uncertainty9

2 Test Configuration of EUT10

2.1 Test Channel Mode10

2.2 The Worst Case Measurement Configuration11

2.3 EUT Operation during Test12

2.4 Accessories12

2.5 Support Equipment.....13

2.6 Test Setup Diagram14

3 Transmitter Test Result17

3.1 AC Power-line Conducted Emissions17

3.2 DTS Bandwidth.....19

3.3 Maximum Conducted Output Power20

3.4 Power Spectral Density23

3.5 Emissions in Non-restricted Frequency Bands25

3.6 Emissions in Restricted Frequency Bands.....26

4 Test Equipment and Calibration Data30

Appendix A. Test Results of AC Power-line Conducted Emissions

Appendix B. Test Results of DTS Bandwidth

Appendix C. Test Results of Maximum Conducted Output Power

Appendix D. Test Results of Power Spectral Density

Appendix E. Test Results of Emissions in Non-restricted Frequency Bands

Appendix F. Test Results of Emissions in Restricted Frequency Bands

Appendix G. Test Photos

Appendix H. Photographs of EUT



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.247(a)	DTS Bandwidth	PASS	-
3.3	15.247(b)	Maximum Conducted Output Power	PASS	-
3.4	15.247(e)	Power Spectral Density	PASS	-
3.5	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
3.6	15.247(d)	Emissions in Restricted Frequency Bands	PASS	-

Conformity Assessment Condition:

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

Disclaimer:

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

Reviewed by: **Sam Chen**

Report Producer: **Cathy Chiu**



1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	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(500Kb/s)	1.0	1TX
2.4-2.4835GHz	BT-LE(125Kb/s)	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

Set	Ant.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)			
							2.4GHz	5GHz	6GHz	Bluetooth
1	1	1	WIESON	ARY196-0383-005-00	Dipole Antenna	I-PEX	-	-	-	2.1
	2	1	WIESON	ARY196-0383-006-00	Dipole Antenna	I-PEX	2.2	2.7	2.8	-
	3	2	WIESON	ARY196-0383-007-00	Dipole Antenna	I-PEX	1.7	1.6	1.7	-
2	1	1	WIESON	ARY196-0383-008-00	Dipole Antenna	I-PEX	-	-	-	1.7
	2	1	WIESON	ARY196-0383-009-00	Dipole Antenna	I-PEX	2.0	2.2	2.3	-
	3	2	WIESON	ARY196-0383-010-00	Dipole Antenna	I-PEX	1.1	1.0	0.9	-

Note1: The above information was declared by manufacturer.

Note2: The EUT has two sets of antennas and there are three antennas for each set.

Set 1~2 are the same type antenna. Only the highest gain Set 1 antenna was selected to test and record in this report.



Note 3: Directional gain information

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

Ex.

Directional Gain (NSS1) formula :

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

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

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

$$DG = 10 \log[(NSS1(g1,1) + NSS1(g1,2))^2 / N_{ANT}] \Rightarrow 10 \log[(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}]$$

Where ;

$$2.4G \quad G1 = 2.2 \text{ dBi} ; G2 = 1.7 \text{ dBi} ; DG = 4.96 \text{ dBi}$$

$$5G \quad G1 = 2.7 \text{ dBi} ; G2 = 1.6 \text{ dBi} ; DG = 5.18 \text{ dBi}$$

$$6G \quad G1 = 2.8 \text{ dBi} ; G2 = 1.7 \text{ dBi} ; DG = 5.28 \text{ dBi}$$

For 2.4GHz function:

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

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

For 5GHz function:

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

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

For 6GHz function:

For IEEE 802.11ax (2TX/2RX):

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

For Bluetooth function (1TX/1RX):

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



1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
BT-LE(1Mbps)	0.853	0.69	2.134m	1k
BT-LE(2Mbps)	0.579	2.37	1.073m	1k

Note:

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

1.1.4 EUT Operational Condition

EUT Power Type	Form host system		
Function	<input checked="" type="checkbox"/> Point-to-multipoint	<input type="checkbox"/>	Point-to-point
Test Software Version	DOS [ver 6.1.7601]		
Support Mode	<input checked="" type="checkbox"/>	LE 1M PHY: 1 Mb/s	
	<input checked="" type="checkbox"/>	LE Coded PHY (S=2): 500 Kb/s	
	<input checked="" type="checkbox"/>	LE Coded PHY (S=8): 125 Kb/s	
	<input checked="" type="checkbox"/>	LE 2M PHY: 2 Mb/s	

Note: The above information was declared by manufacturer.



1.2 Applicable Standards

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

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

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

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

1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH02-CB	Mason Chan	21.7~23.4 / 60~63	Feb. 17, 2023~ Feb. 21, 2023
Radiated (Below 1GHz)	03CH05-CB	Chris Li	20.2~21.3 / 56~57	Mar. 04, 2023
Radiated (Above 1GHz)	03CH02-CB	Stim Sung	20-21 / 55-58	Feb. 10, 2023~ Feb. 17, 2023
AC Conduction	CO01-CB	Dean Chang	22~23 / 50~51	Mar. 08, 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)	3.4 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.6 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	5.2 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.7 dB	Confidence levels of 95%
Conducted Emission	3.2 dB	Confidence levels of 95%
Output Power Measurement	0.8 dB	Confidence levels of 95%
Power Density Measurement	3.2 dB	Confidence levels of 95%
Conducted Emission (150kHz ~ 30MHz)	3.4 dB	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
BT-LE(1Mbps)	-
2402MHz	15
2440MHz	14
2480MHz	11
BT-LE(2Mbps)	-
2402MHz	18
2440MHz	14
2480MHz	11



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 with antenna set 1 + 2.4GHz + Bluetooth
2	EUT with antenna set 1 + 5GHz + Bluetooth
3	EUT with antenna set 1 + 6GHz + Bluetooth
For operating mode 2 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, the worst case was found at Y axis, thus the measurement will follow this same test configuration.	
1	EUT at Y axis with antenna set 1 + 2.4GHz + Bluetooth
2	EUT at Y axis with antenna set 1 + 5GHz + Bluetooth
3	EUT at Y axis with antenna set 1 + 6GHz + Bluetooth
For operating mode 1 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
After evaluating, the worst case was found at Y axis for bandedge and X axis for harmonic. Thus the measurement will follow this same test configuration.	
1	EUT with antenna set 1 + Bluetooth (Bandedge in Y axis) / (Harmonic in X axis)



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 2.4GHz + Bluetooth
2	WLAN 5GHz + Bluetooth
3	WLAN 6GHz + Bluetooth
Refer to Sporton Test Report No.: FA320110 for Co-location RF Exposure Evaluation.	

2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link Mode:

During the test, the EUT operation to normal function.

2.4 Accessories

N/A



2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Test Fixture	Arcadyan	N0IDM9922001J	N/A
B	LAN NB	DELL	E6430	N/A
C	BT Test Set	Anritsu	MT8852B	N/A
D	WLAN AP	TP-Link	Archer AX10	N/A
E	WLAN NB	DELL	E6430	N/A
F	Test Fixture	MASIMO HEOS	AIOS7 LPP	N/A

For Radiated (below 1GHz):

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Test Fixture	Arcadyan	N0IDM9922001J	N/A
B	NB	Lenovo	L440	N/A
C	BT Test Set	Anritsu	MT8852B	N/A
D	WLAN AP	LINKSYS	DIVO	N/A
E	NB	DELL	E4300	N/A
F	Test Fixture	MASIMO HEOS	AIOS7 LPP	N/A

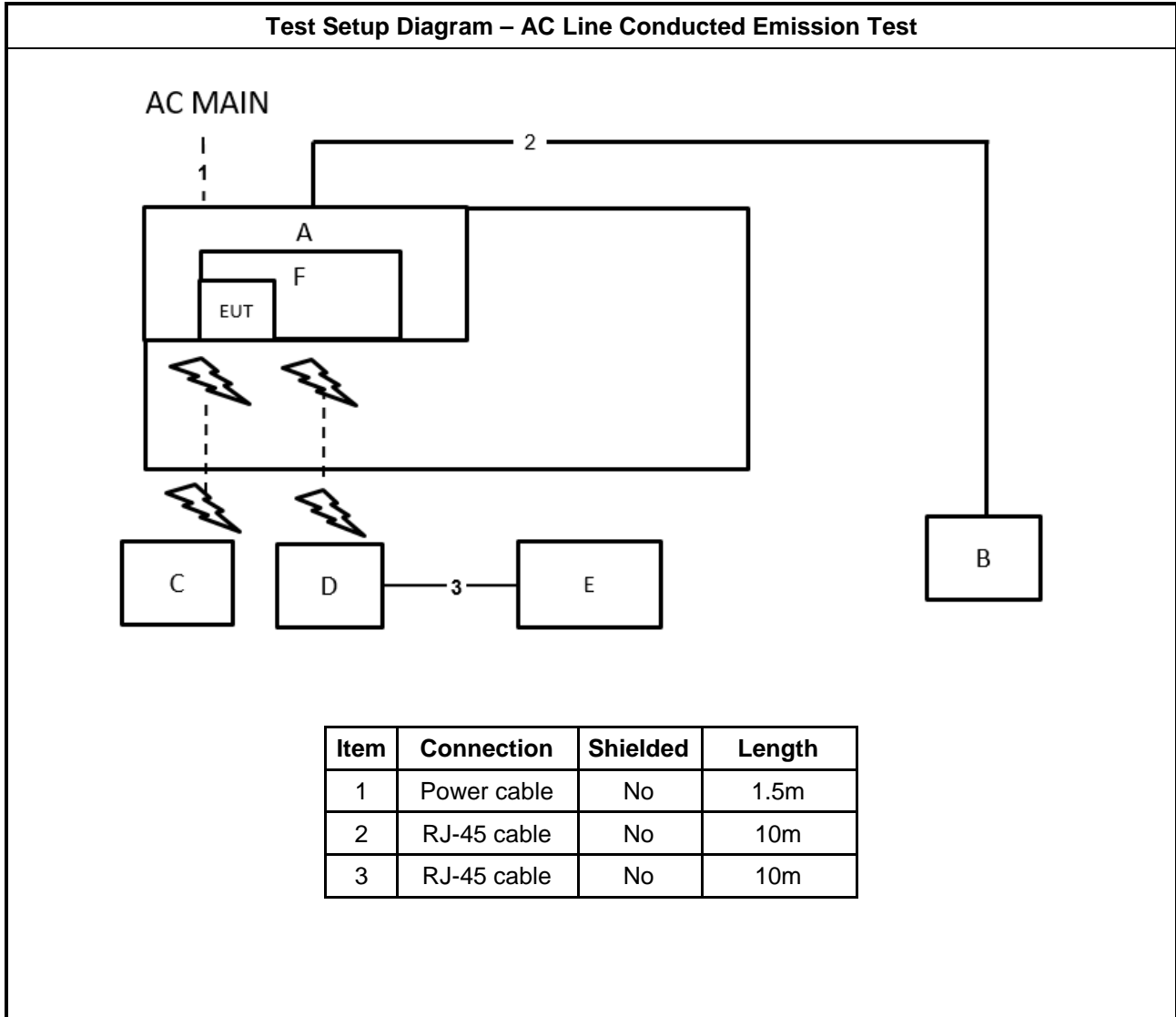
For Radiated (above 1GHz):

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	Test Fixture	Arcadyan	N0IDM9922001J	N/A
C	Test Fixture	MASIMO HEOS	AIOS7 LPP	N/A

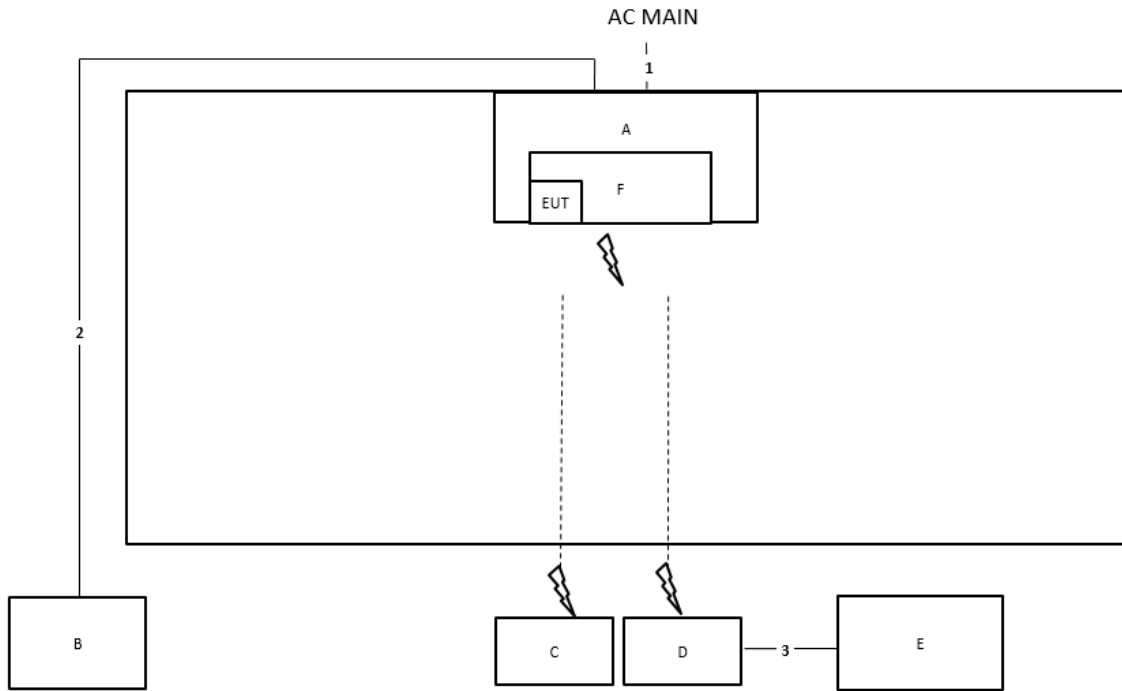
For RF Conducted:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	Test Fixture	MASIMO HEOS	AIOS7 LPP	N/A
C	Test Fixture	Arcadyan	N0IDM9922001J	N/A

2.6 Test Setup Diagram

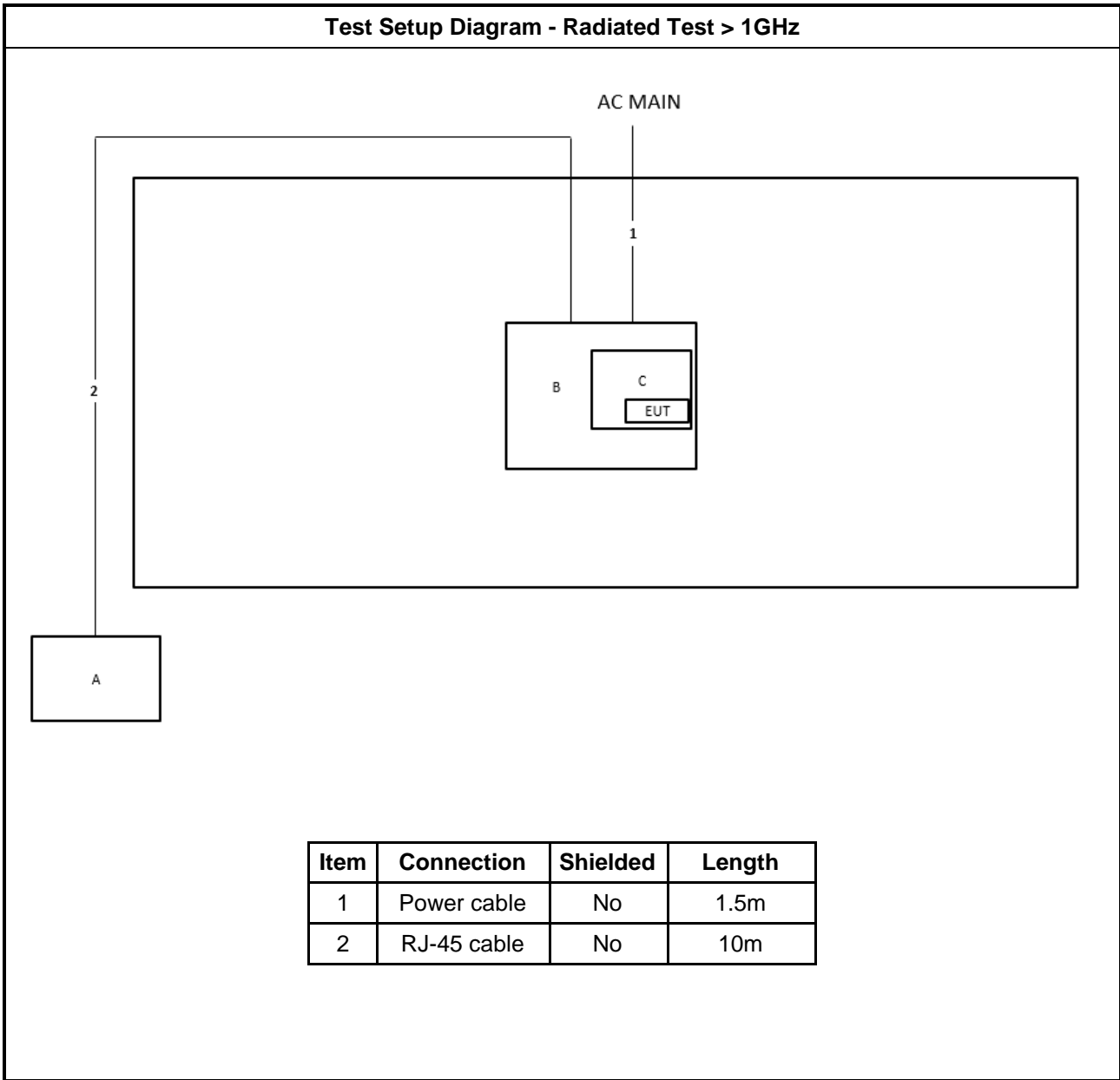


Test Setup Diagram - Radiated Test < 1GHz



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

Test Setup Diagram - Radiated Test > 1GHz



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



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: * Decreases with the logarithm of the frequency.

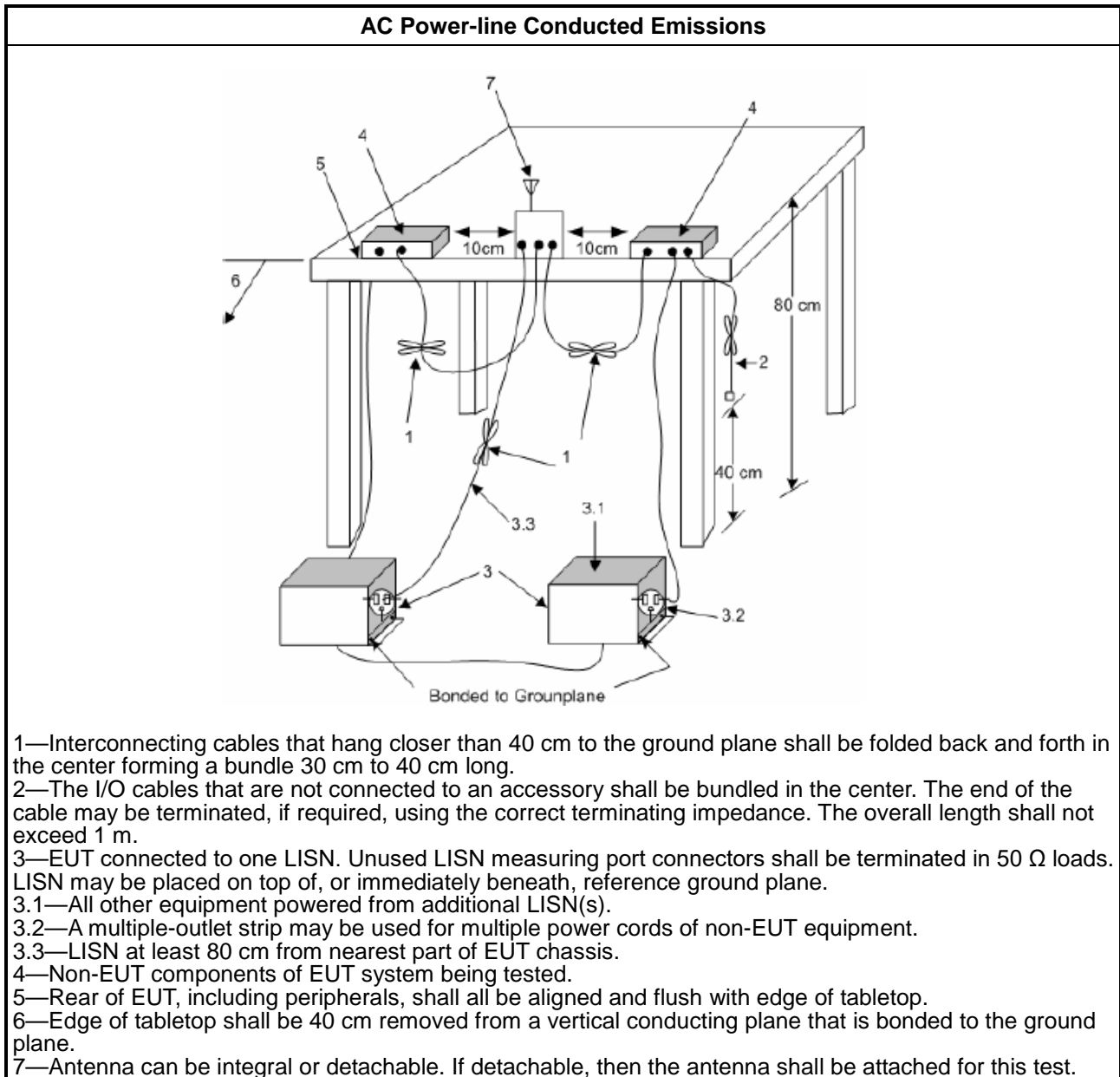
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup



1.1.1. Measurement Results Calculation

The measured Level is calculated using:

- 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:
<ul style="list-style-type: none"> ▪ 6 dB bandwidth \geq 500 kHz.

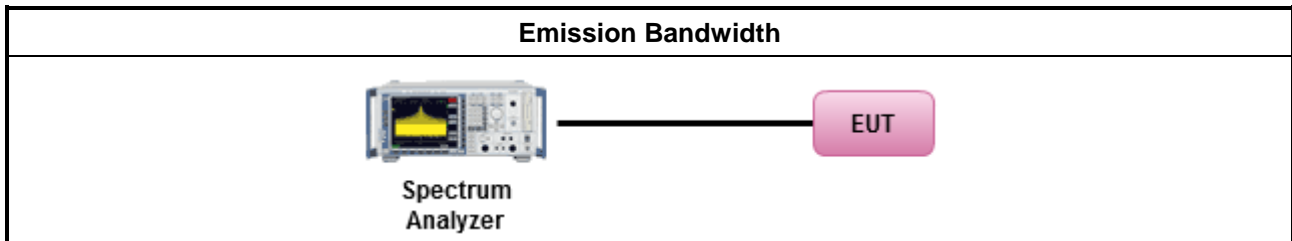
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B



3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
	<ul style="list-style-type: none"> ▪ If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)
	<ul style="list-style-type: none"> ▪ Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm
	<ul style="list-style-type: none"> ▪ Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	<ul style="list-style-type: none"> ▪ Smart antenna system (SAS):
	<ul style="list-style-type: none"> - Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	<ul style="list-style-type: none"> - Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	<ul style="list-style-type: none"> - 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

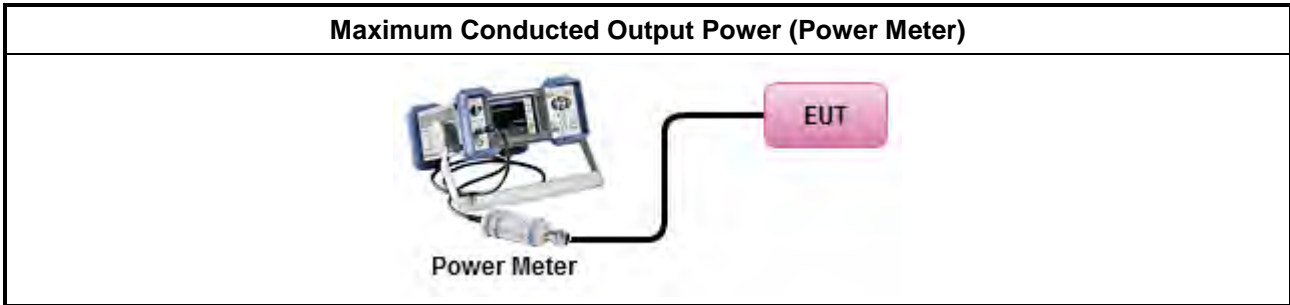
Refer a test equipment and calibration data table in this test report.



3.3.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ Maximum Peak Conducted Output Power 	
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.1.1 & C63.10 clause 11.9.1.1 (RBW ≥ EBW method).
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.1.3 & C63.10 clause 11.9.1.3 (peak power meter).
<ul style="list-style-type: none"> ▪ Maximum Conducted Output Power 	
[duty cycle ≥ 98% or external video / power trigger]	
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.2 Method AVGSA-1.
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.3 Method AVGSA-1A. (alternative)
duty cycle < 98% and average over on/off periods with duty factor	
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.4 Method AVGSA-2.
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.5 Method AVGSA-2A (alternative)
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.6 Method AVGSA-3
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.7 Method AVGSA-3A (alternative)
Measurement using a power meter (PM)	
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.1 Method AVGPM (using an RF average power meter).
	<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.2 Method AVGPM-G (using an gate RF average power meter).
<ul style="list-style-type: none"> ▪ For conducted measurement. 	
<ul style="list-style-type: none"> ▪ 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. 	
<ul style="list-style-type: none"> ▪ If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$ 	

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C



3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

Power Spectral Density Limit
<ul style="list-style-type: none"> Power Spectral Density (PSD) ≤ 8 dBm/3kHz

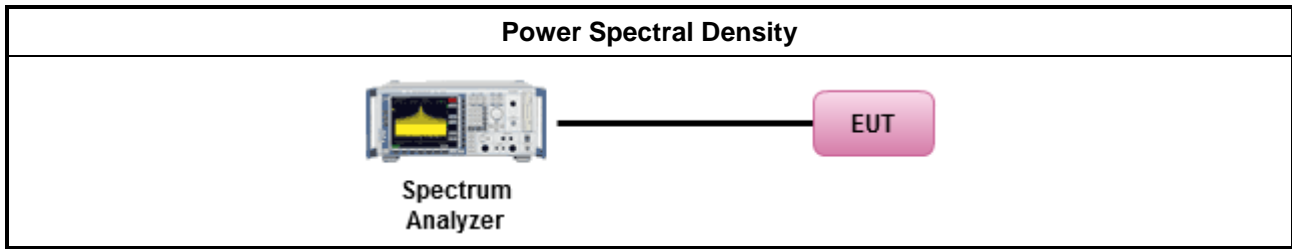
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method
<ul style="list-style-type: none"> Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).
<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10 Method Max. PSD. [duty cycle ≥ 98% or external video / power trigger]
<ul style="list-style-type: none"> For conducted measurement.
<ul style="list-style-type: none"> If The EUT supports multiple transmit chains using options given below: <ul style="list-style-type: none"> <input type="checkbox"/> Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace. <input type="checkbox"/> Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits, <input type="checkbox"/> Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	Limit (dBc)
Peak output power procedure	20
Average output power procedure	30

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.

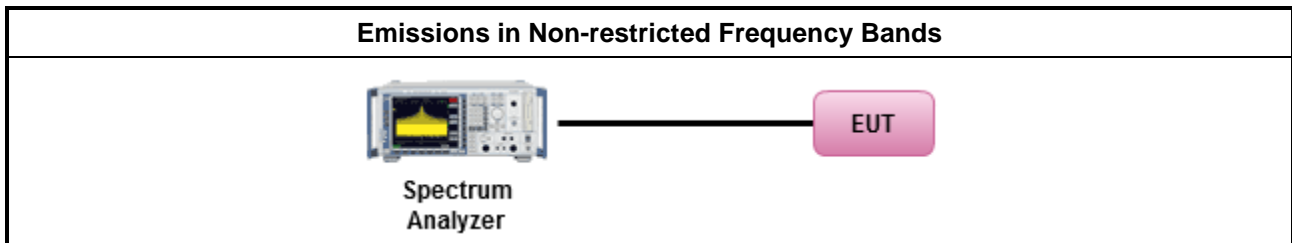
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E



3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

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

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

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

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

3.6.2 Measuring Instruments

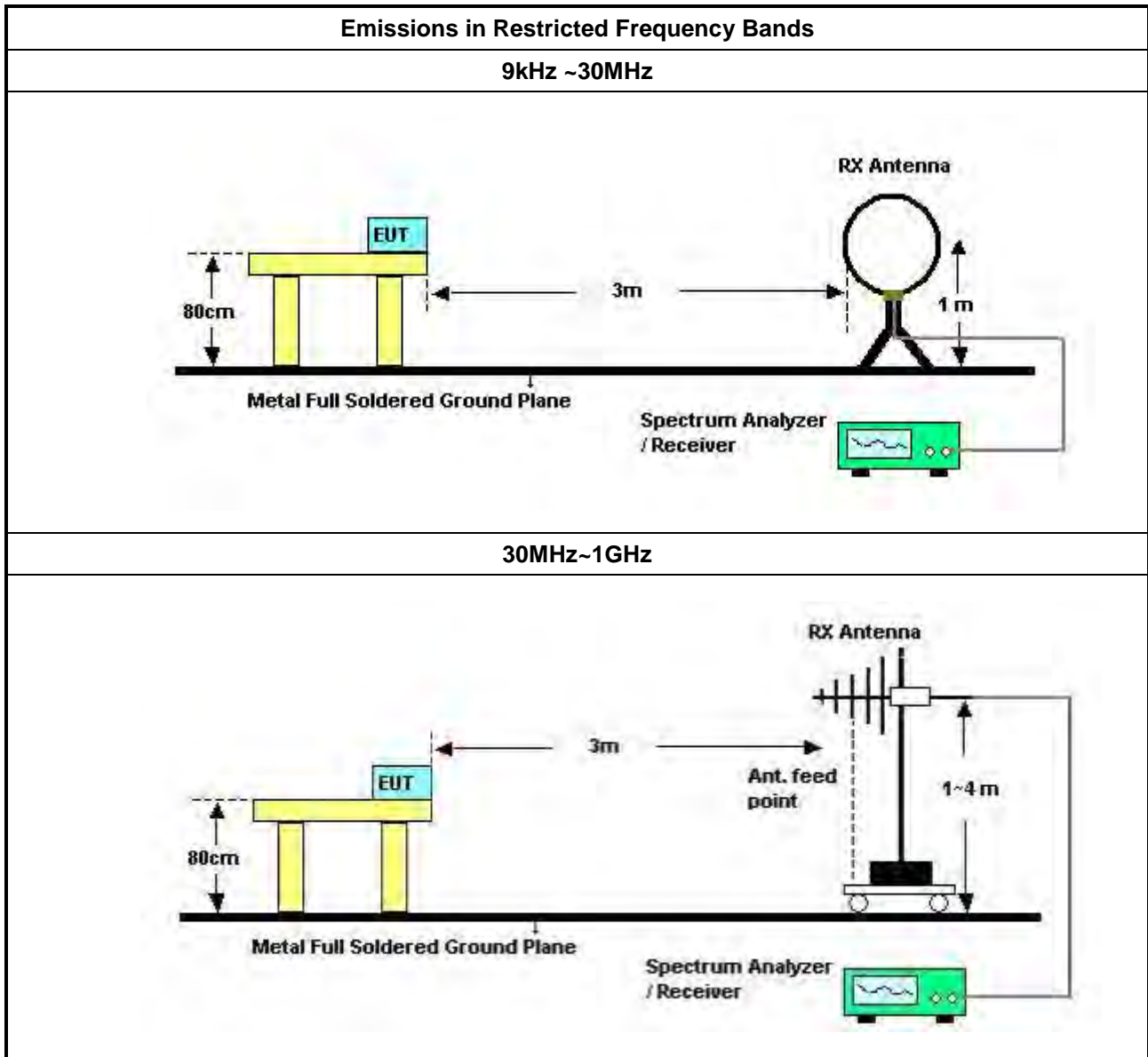
Refer a test equipment and calibration data table in this test report.

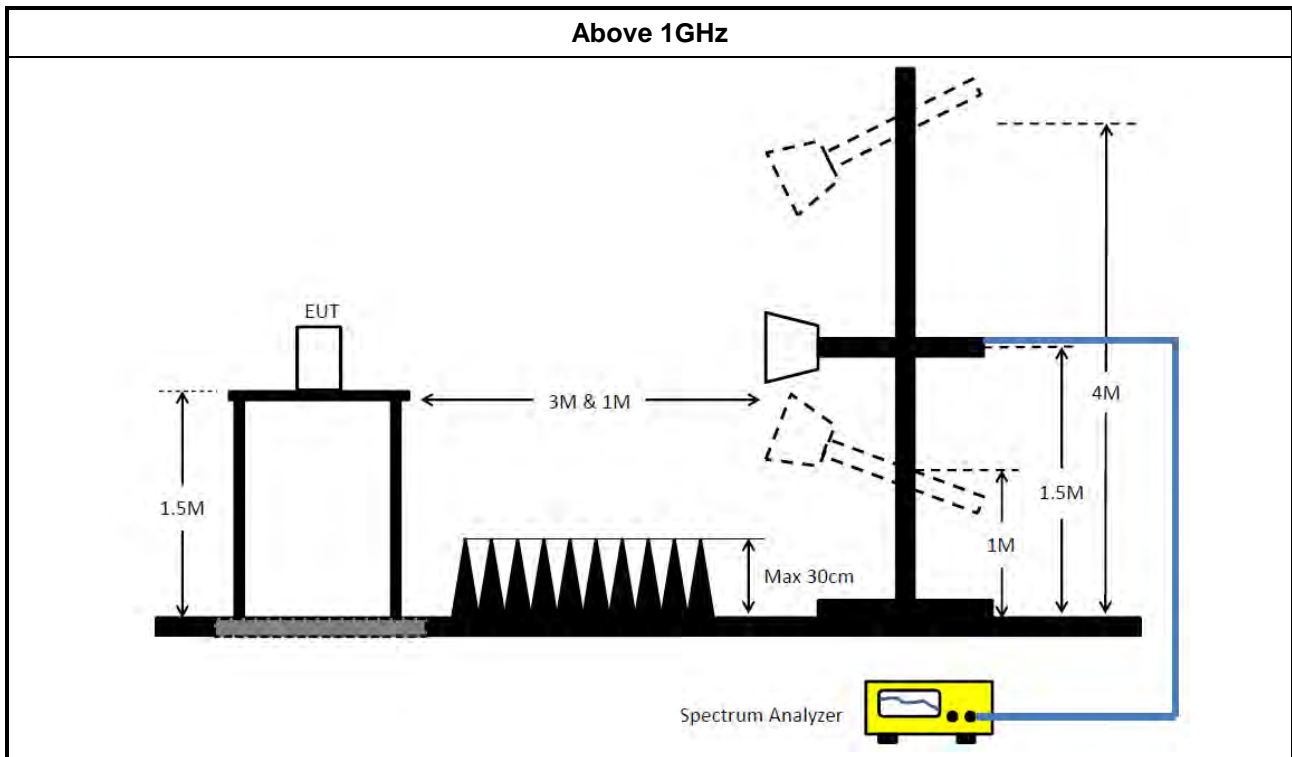


3.6.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ The average emission levels shall be measured in [duty cycle \geq 98 or duty factor]. 	
<ul style="list-style-type: none"> ▪ 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. 	
<ul style="list-style-type: none"> ▪ For the transmitter unwanted emissions shall be measured using following options below: 	
	<ul style="list-style-type: none"> ▪ Refer as FCC KDB 558074, clause 8.6 for unwanted emissions into restricted bands.
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.1(trace averaging for duty cycle \geq 98%).
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.2(trace averaging + duty factor).
<input checked="" type="checkbox"/>	Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.3(Reduced VBW \geq 1/T).
<input type="checkbox"/>	Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW \geq 1/T, where T is pulse time.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
<input checked="" type="checkbox"/>	Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.4 measurement procedure peak limit.
<ul style="list-style-type: none"> ▪ For the transmitter band-edge emissions shall be measured using following options below: 	
	<ul style="list-style-type: none"> ▪ 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.
	<ul style="list-style-type: none"> ▪ Refer as FCC KDB 558074, clause 8.7 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements.
	<ul style="list-style-type: none"> ▪ 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).
	<ul style="list-style-type: none"> ▪ 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
	<ul style="list-style-type: none"> ▪ For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.

3.6.4 Test Setup





3.6.5 Measurement Results Calculation

The measured Level is calculated using:

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

3.6.6 Emissions in Restricted Frequency Bands (Below 30MHz)

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

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

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

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F



4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Feb. 20, 2023	Feb. 19, 2024	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-5 0-16-2	04083	150kHz ~ 100MHz	Feb. 16, 2023	Feb. 15, 2024	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Apr. 12, 2022	Apr. 11, 2023	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Feb. 09, 2023	Feb. 08, 2024	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	Oct. 18, 2022	Oct. 17, 2023	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	May 14, 2022	May 13, 2023	Radiation (03CH05-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz ~ 1 GHz	Aug. 03, 2022	Aug. 02, 2023	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 25, 2022	Mar. 24, 2023	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	Apr. 26, 2022	Apr. 25, 2023	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Mar. 14, 2022	Mar. 13, 2023	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 17, 2022	Jun. 16, 2023	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	RIKEN	SAC-3M	03CH02-CB	1GHz ~18GHz	Mar. 26, 2022	Mar. 25, 2023	Radiation (03CH02-CB)
Horn Antenna	EMCO	3115	9610-4976	1GHz ~ 18GHz	Apr. 19, 2022	Apr. 18, 2023	Radiation (03CH02-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 22, 2022	Aug. 21, 2023	Radiation (03CH02-CB)
Pre-Amplifier	Agilent	83017A	MY39501305	1GHz ~ 26.5GHz	Jul. 01, 2022	Jun. 30, 2023	Radiation (03CH02-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 16, 2022	Nov. 15, 2023	Radiation (03CH02-CB)
Spectrum analyzer	R&S	FSU	100015	9kHz~26GHz	Dec. 05, 2022	Dec. 04, 2023	Radiation (03CH02-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-18	1GHz ~ 18GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18+19	1GHz ~ 18GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#6	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH02-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH02-CB)
Spectrum analyzer	R&S	FSV40	101027	9kHz~40GHz	Aug. 15, 2022	Aug. 14, 2023	Conducted (TH02-CB)
Power Sensor	Anritsu	MA2411B	1126203	300MHz~40GHz	Oct. 17, 2022	Oct. 16, 2023	Conducted (TH02-CB)
Power Meter	Anritsu	ML2495A	1210004	300MHz~40GHz	Oct. 17, 2022	Oct. 16, 2023	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-01	1 GHz – 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-02	1 GHz – 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-03	1 GHz – 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-04	1 GHz – 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-05	1 GHz – 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH02-CB)
Switch	SPTCB	SP-SWI	SWI-02	1 GHz ~26.5 GHz	Oct. 04, 2022	Oct. 03, 2023	Conducted (TH02-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH02-CB)

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

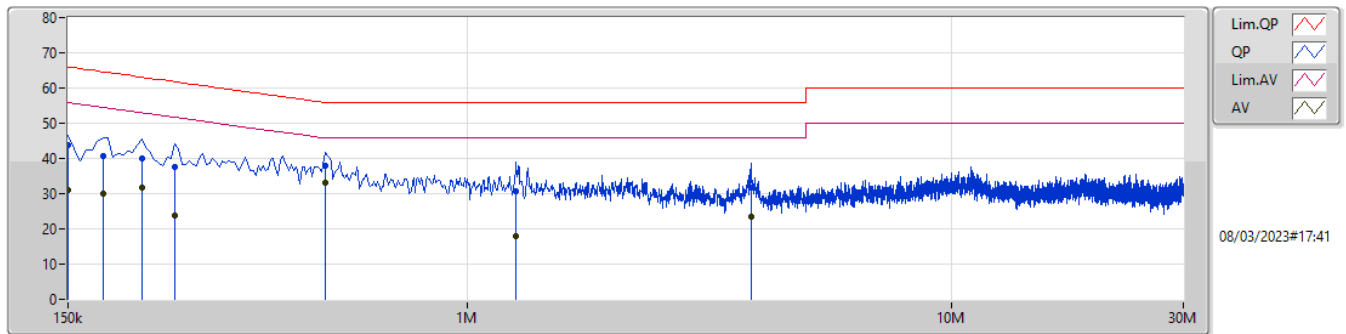
NCR means Non-Calibration required.



Summary

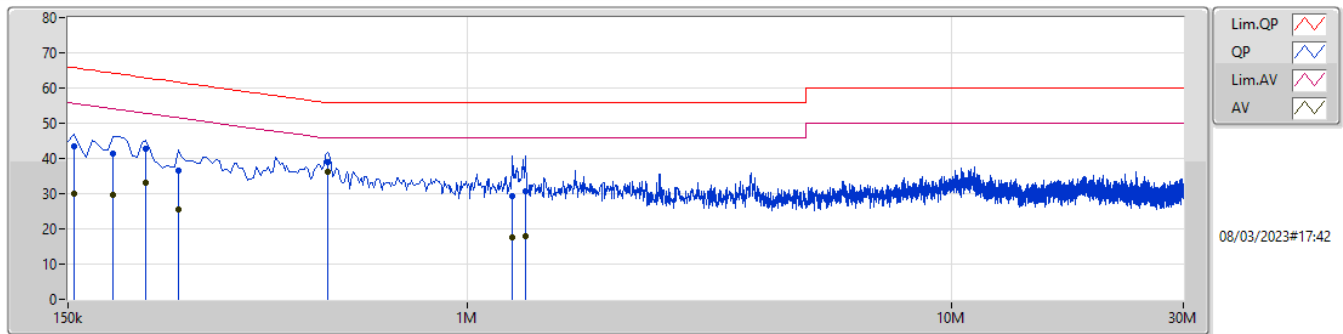
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 2	Pass	AV	514.5k	36.10	46.00	-9.90	Neutral

Mode 2



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	150k	43.75	66.00	-22.25	9.97	Line	-	33.78	0.06	0.04	9.87
AV	150k	31.01	56.00	-24.99	9.97	Line	-	21.04	0.06	0.04	9.87
QP	177k	40.69	64.62	-23.93	9.97	Line	-	30.72	0.06	0.04	9.87
AV	177k	30.01	54.62	-24.61	9.97	Line	-	20.04	0.06	0.04	9.87
QP	213k	40.13	63.09	-22.96	9.96	Line	-	30.17	0.06	0.04	9.86
AV	213k	31.85	53.09	-21.24	9.96	Line	-	21.89	0.06	0.04	9.86
QP	249k	37.57	61.79	-24.22	9.98	Line	-	27.59	0.06	0.05	9.87
AV	249k	23.87	51.79	-27.92	9.98	Line	-	13.89	0.06	0.05	9.87
QP	510k	38.05	56.00	-17.95	10.01	Line	-	28.04	0.06	0.05	9.90
AV	510k	32.95	46.00	-13.05	10.01	Line	"Worst"	22.94	0.06	0.05	9.90
QP	1.262M	30.54	56.00	-25.46	10.04	Line	-	20.50	0.08	0.06	9.90
AV	1.262M	17.93	46.00	-28.07	10.04	Line	-	7.89	0.08	0.06	9.90
QP	3.854M	31.76	56.00	-24.24	10.13	Line	-	21.63	0.12	0.10	9.91
AV	3.854M	23.42	46.00	-22.58	10.13	Line	-	13.29	0.12	0.10	9.91

Mode 2



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	154.5k	43.42	65.75	-22.33	9.98	Neutral	-	33.44	0.07	0.04	9.87
AV	154.5k	30.13	55.75	-25.62	9.98	Neutral	-	20.15	0.07	0.04	9.87
QP	186k	41.28	64.20	-22.92	9.97	Neutral	-	31.31	0.07	0.04	9.86
AV	186k	29.79	54.20	-24.41	9.97	Neutral	-	19.82	0.07	0.04	9.86
QP	217.5k	42.83	62.92	-20.09	9.97	Neutral	-	32.86	0.07	0.04	9.86
AV	217.5k	33.18	52.92	-19.74	9.97	Neutral	-	23.21	0.07	0.04	9.86
QP	253.5k	36.61	61.64	-25.03	9.99	Neutral	-	26.62	0.07	0.05	9.87
AV	253.5k	25.54	51.64	-26.10	9.99	Neutral	-	15.55	0.07	0.05	9.87
QP	514.5k	38.95	56.00	-17.05	10.02	Neutral	-	28.93	0.07	0.05	9.90
AV	514.5k	36.10	46.00	-9.90	10.02	Neutral	"Worst"	26.08	0.07	0.05	9.90
QP	1.239M	29.48	56.00	-26.52	10.05	Neutral	-	19.43	0.09	0.06	9.90
AV	1.239M	17.66	46.00	-28.34	10.05	Neutral	-	7.61	0.09	0.06	9.90
QP	1.316M	30.52	56.00	-25.48	10.05	Neutral	-	20.47	0.09	0.06	9.90
AV	1.316M	17.76	46.00	-28.24	10.05	Neutral	-	7.71	0.09	0.06	9.90



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)	673.75k	1.029M	1M03F1D	668.75k	1.025M
BT-LE(2Mbps)	1.224M	2.021M	2M02F1D	1.214M	2.017M

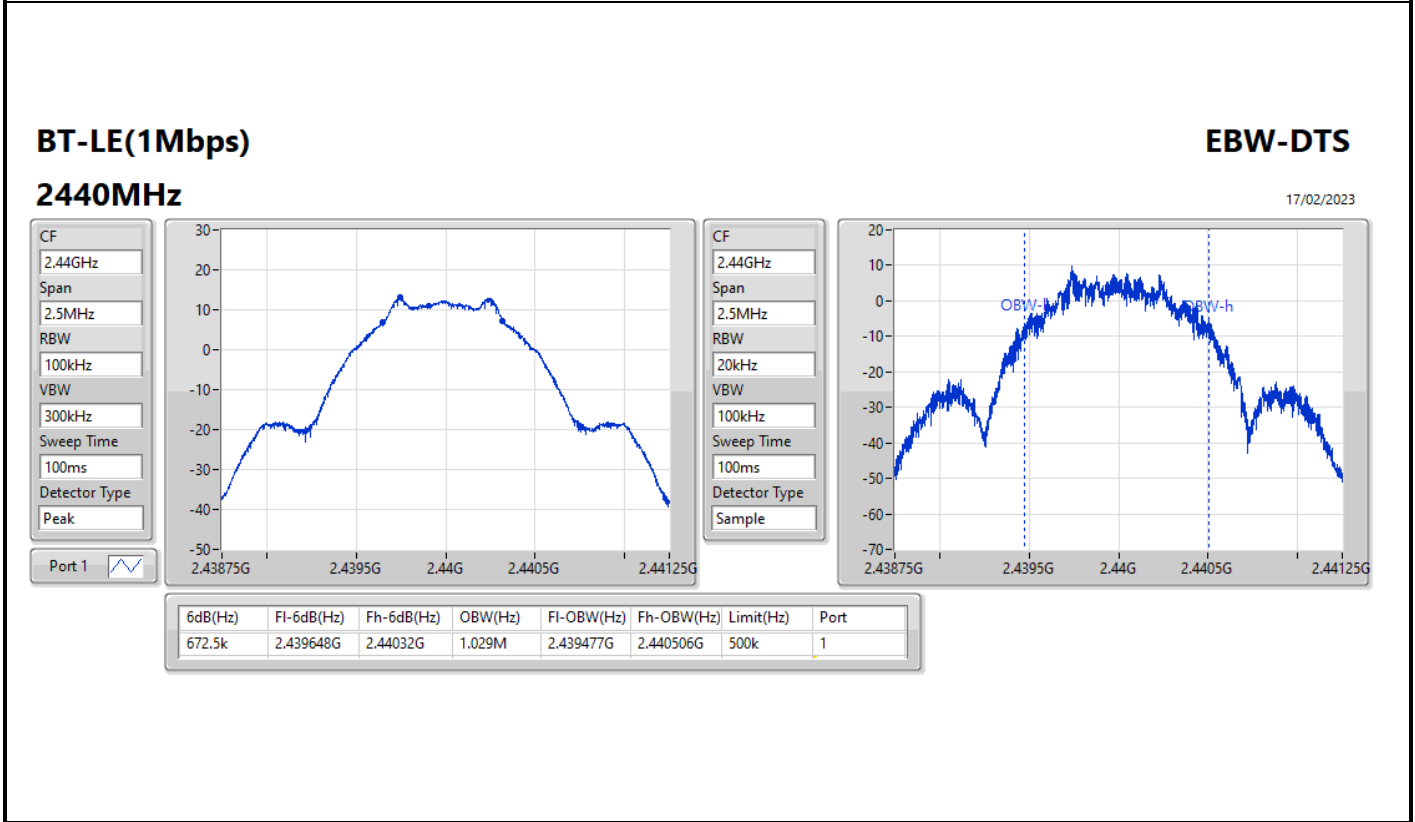
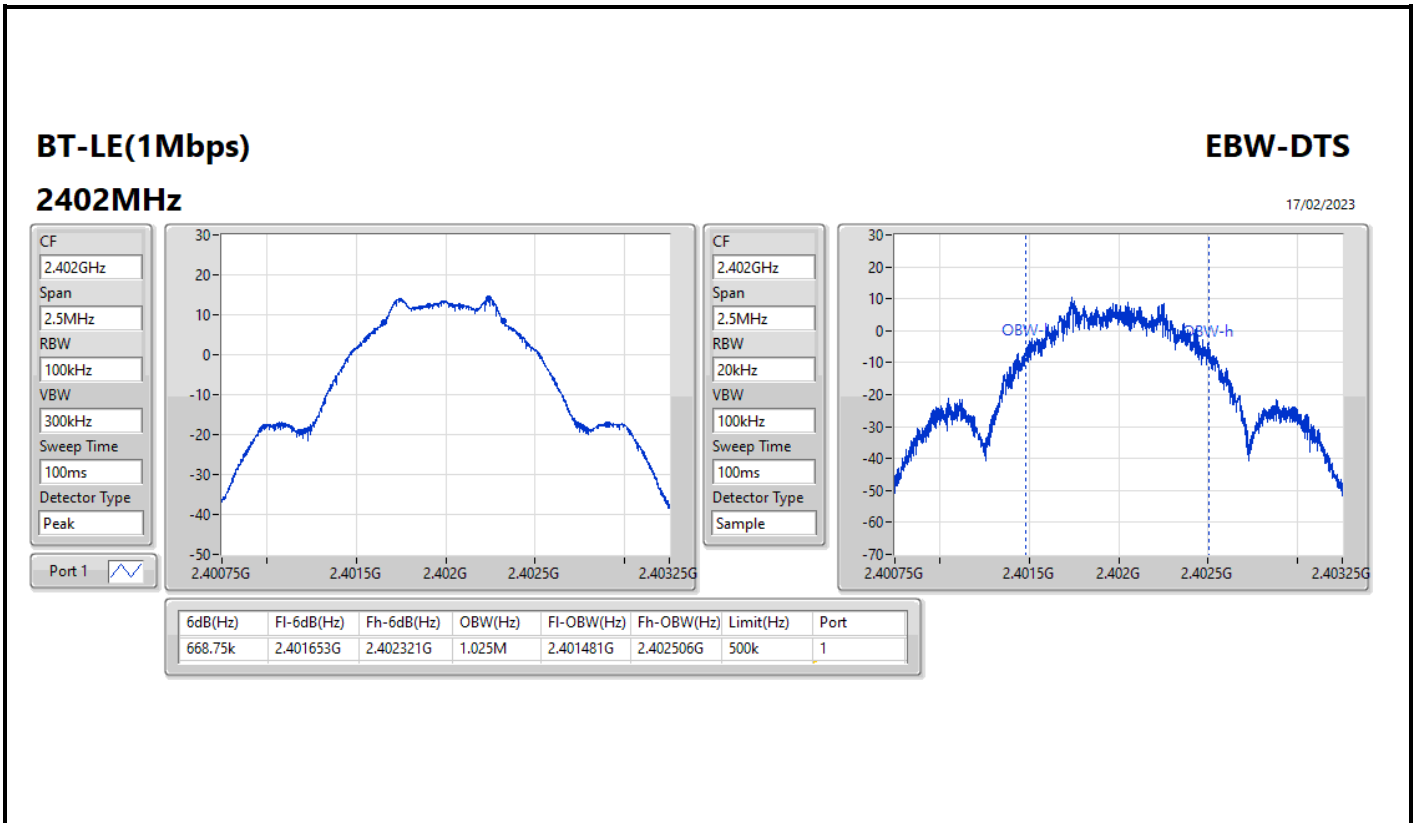
Max-N dB = Maximum 6dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

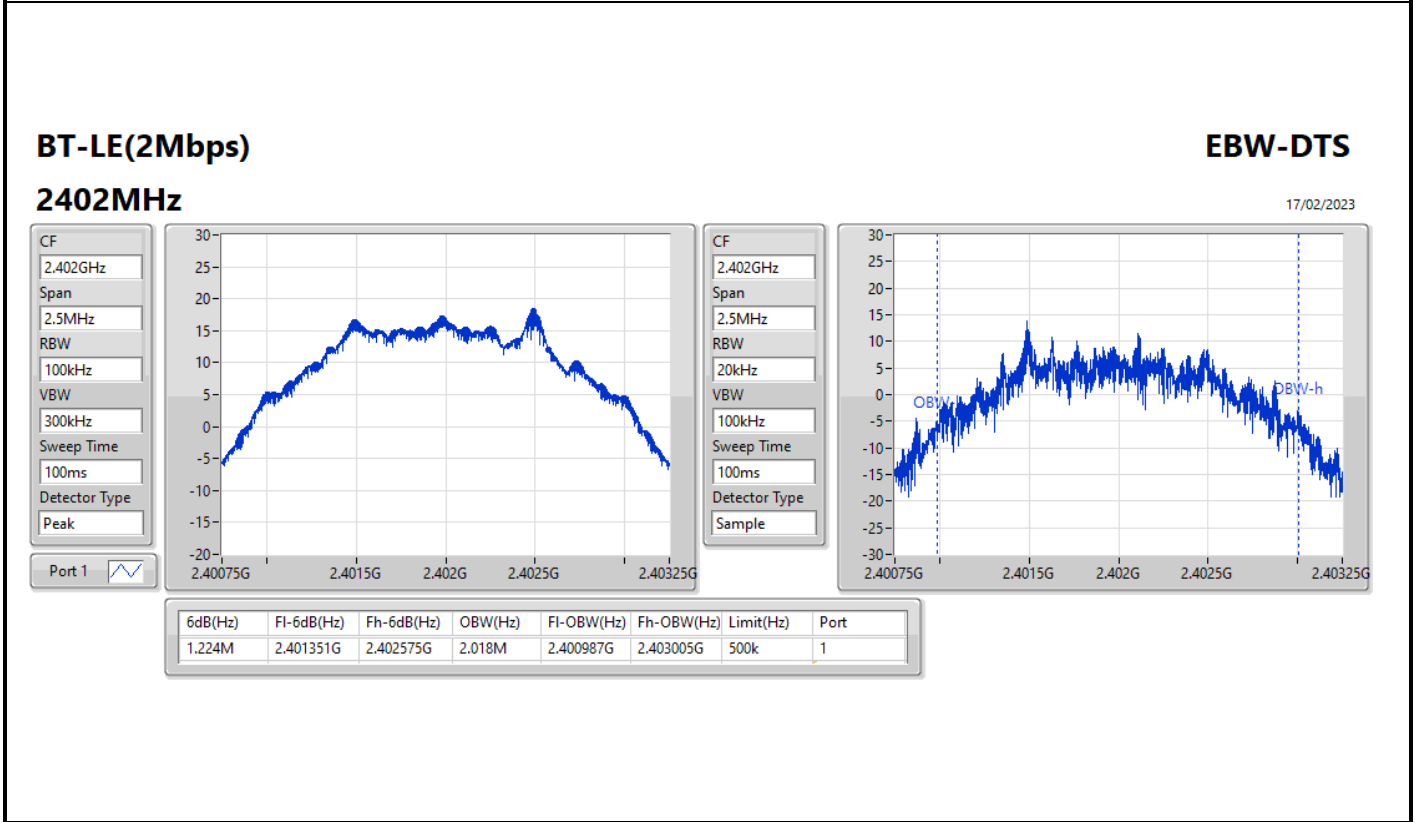
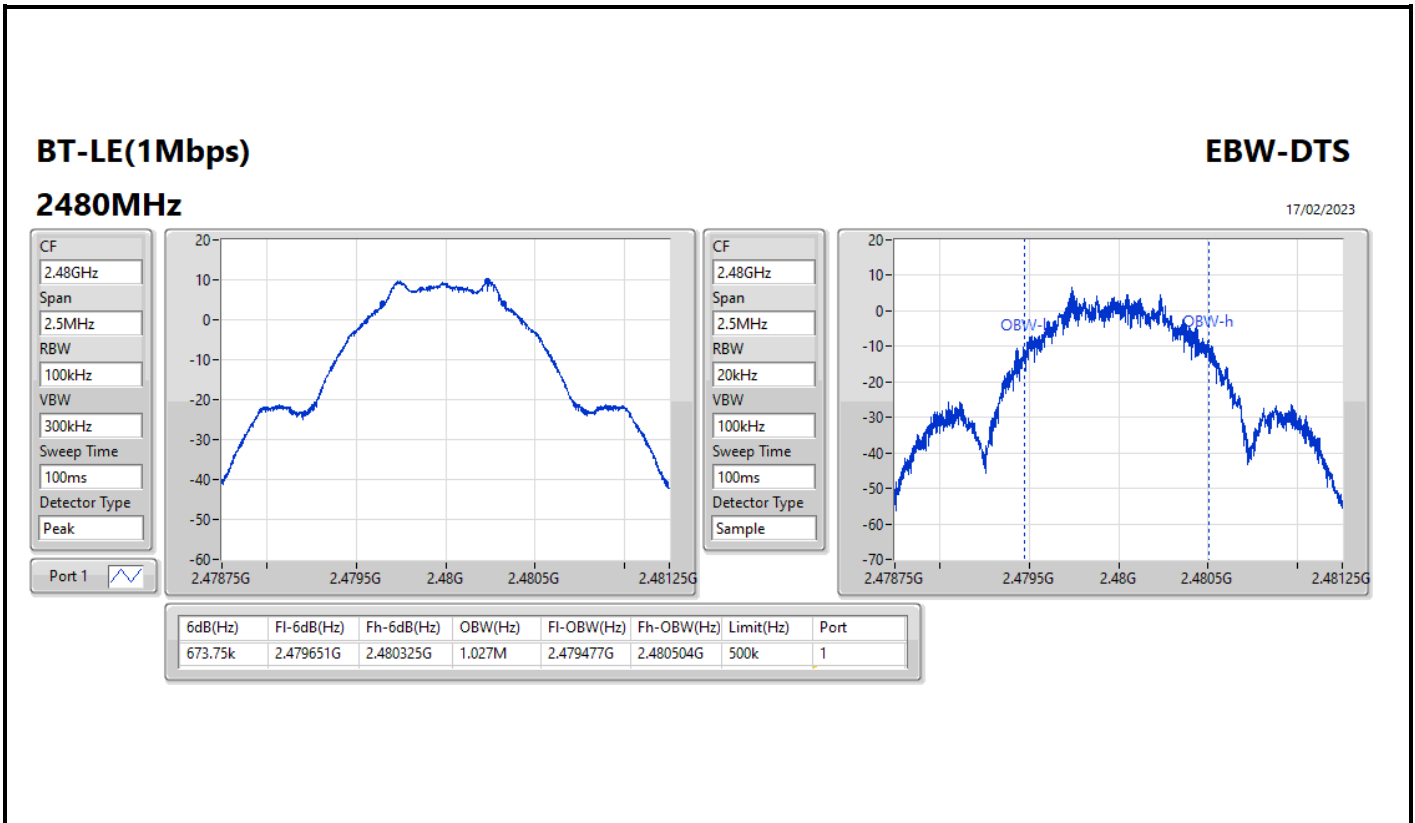


Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	500k	668.75k	1.025M
2440MHz	Pass	500k	672.5k	1.029M
2480MHz	Pass	500k	673.75k	1.027M
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	500k	1.224M	2.018M
2440MHz	Pass	500k	1.214M	2.017M
2480MHz	Pass	500k	1.219M	2.021M

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



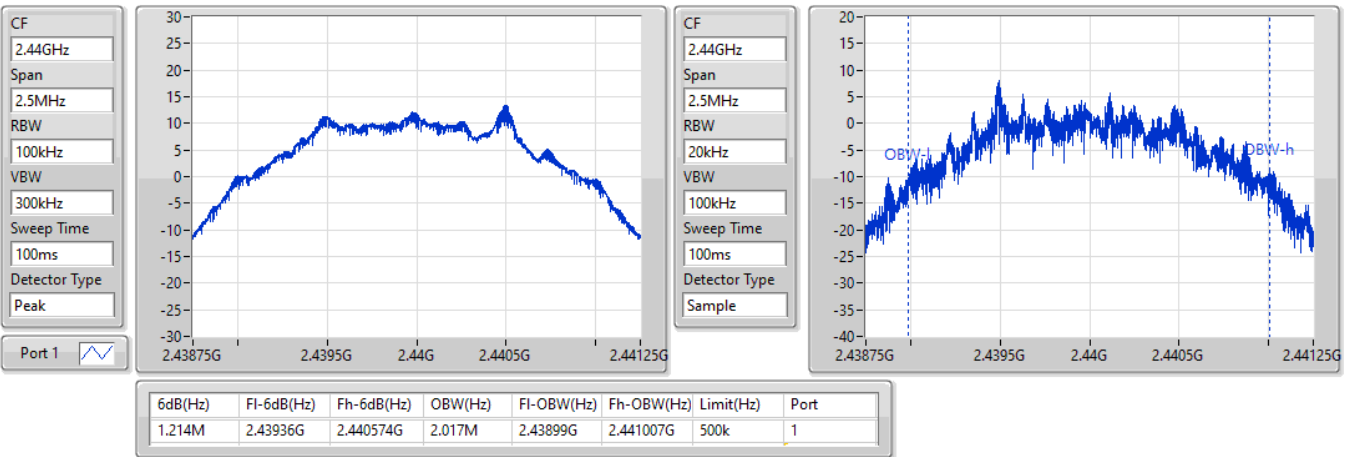


BT-LE(2Mbps)

EBW-DTS

2440MHz

17/02/2023

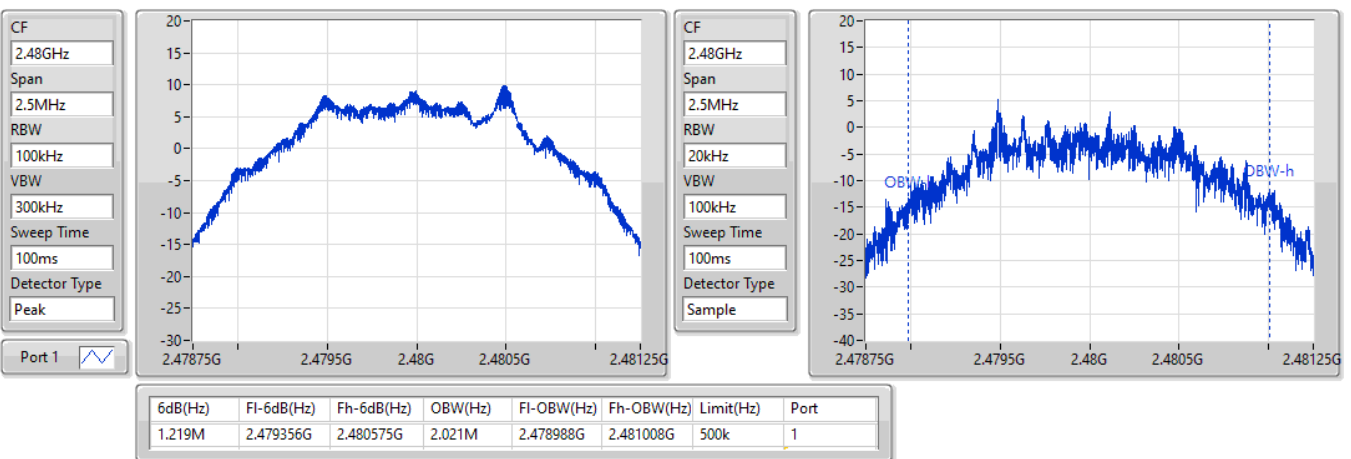


BT-LE(2Mbps)

EBW-DTS

2480MHz

17/02/2023





Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	14.91	0.03097
BT-LE(2Mbps)	18.94	0.07834



Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	2.10	14.91	30.00
2440MHz	Pass	2.10	13.55	30.00
2480MHz	Pass	2.10	10.10	30.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	2.10	18.94	30.00
2440MHz	Pass	2.10	13.34	30.00
2480MHz	Pass	2.10	10.02	30.00

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



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
BT-LE(1Mbps)	-3.65
BT-LE(2Mbps)	-0.87

RBW = 3kHz;



Result

Mode	Result	Gain (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	2.10	-3.65	8.00
2440MHz	Pass	2.10	-3.82	8.00
2480MHz	Pass	2.10	-7.49	8.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	2.10	-0.87	8.00
2440MHz	Pass	2.10	-8.39	8.00
2480MHz	Pass	2.10	-11.93	8.00

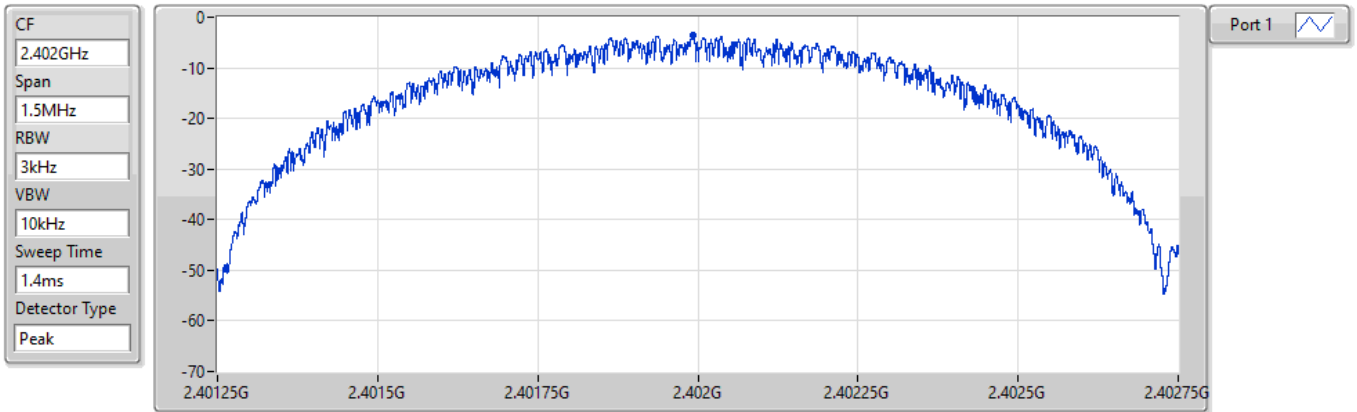
DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

BT-LE(1Mbps)

PSD

2402MHz

17/02/2023



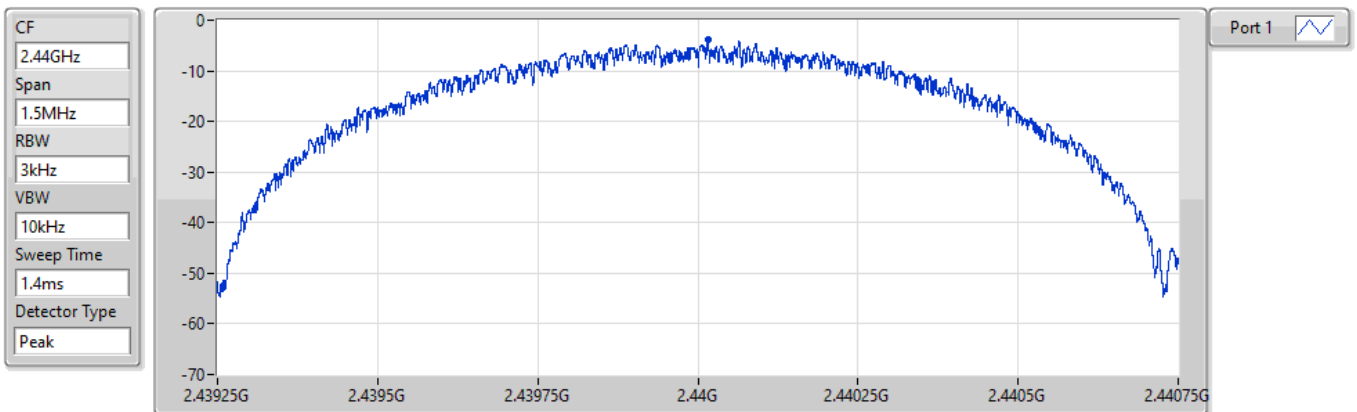
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.65	-3.65	-3.65

BT-LE(1Mbps)

PSD

2440MHz

17/02/2023



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.82	-3.82	-3.82

BT-LE(1Mbps)

PSD

2480MHz

17/02/2023

CF
2.48GHz

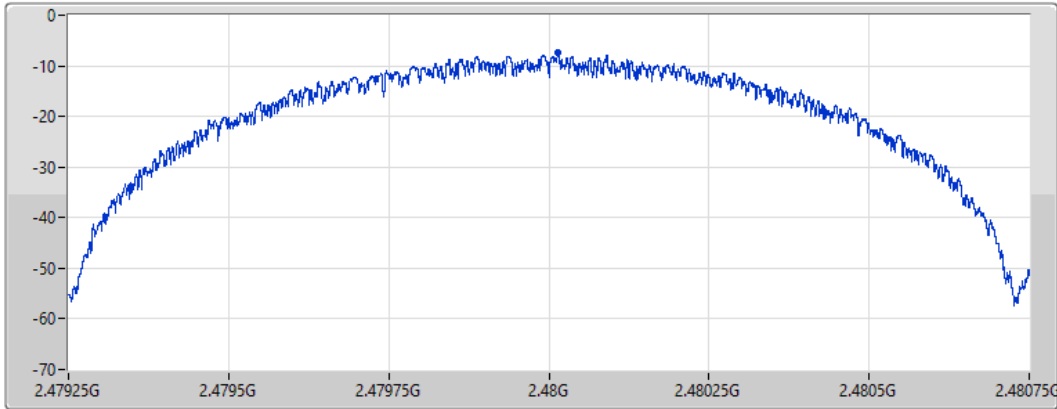
Span
1.5MHz


RBW
3kHz

VBW
10kHz

Sweep Time
1.4ms

Detector Type
Peak



Port 1 

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.49	-7.49	-7.49

BT-LE(2Mbps)

PSD

2402MHz

17/02/2023

CF
2.402GHz

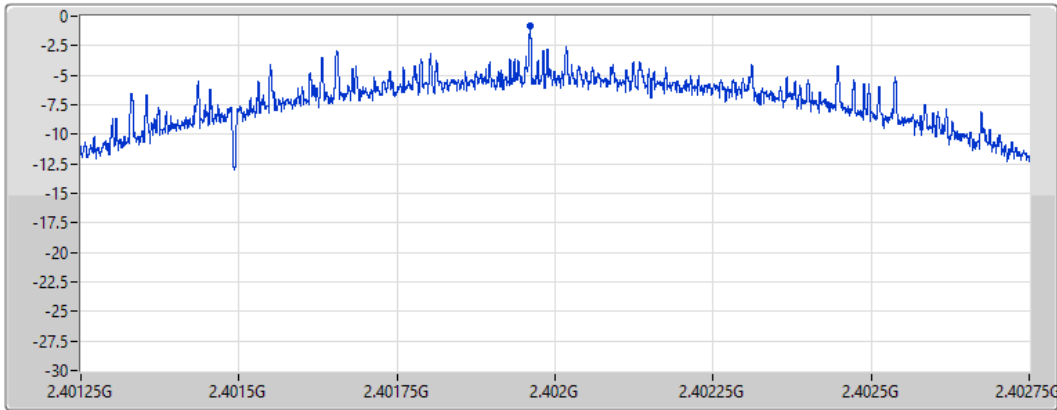
Span
1.5MHz


RBW
3kHz

VBW
10kHz

Sweep Time
1.4ms

Detector Type
Peak



Port 1 

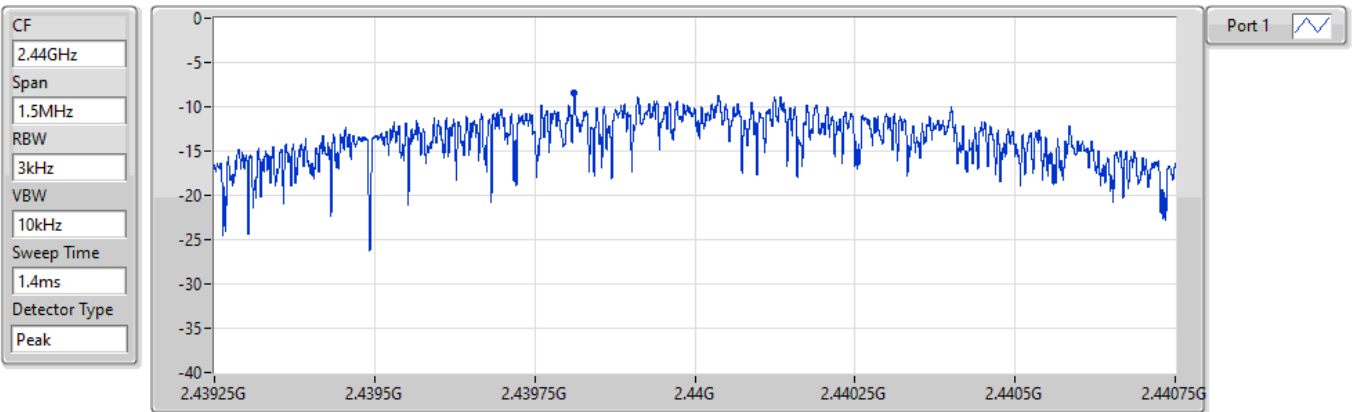
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.87	-0.87	-0.87

BT-LE(2Mbps)

PSD

2440MHz

17/02/2023



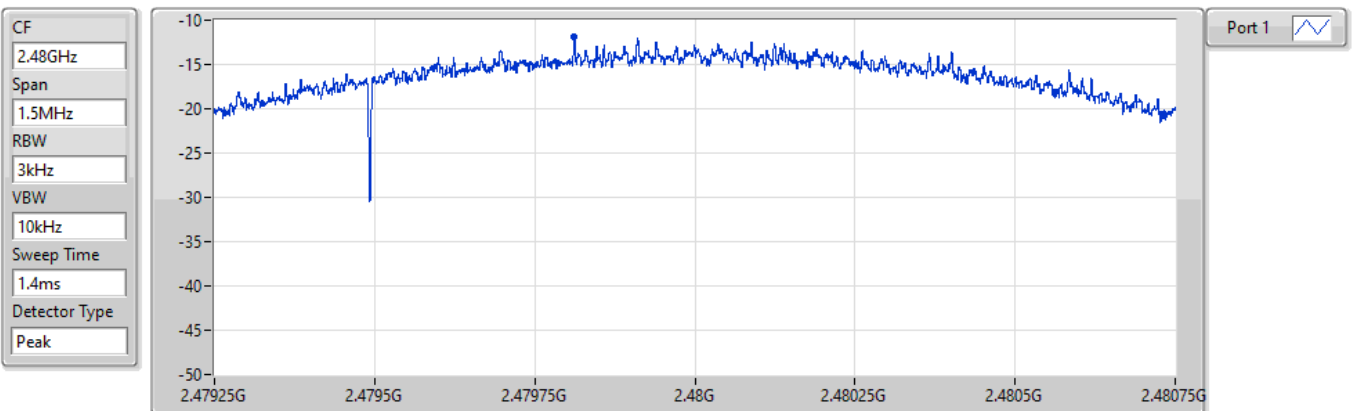
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.39	-8.39	-8.39

BT-LE(2Mbps)

PSD

2480MHz

17/02/2023



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-11.93	-11.93	-11.93

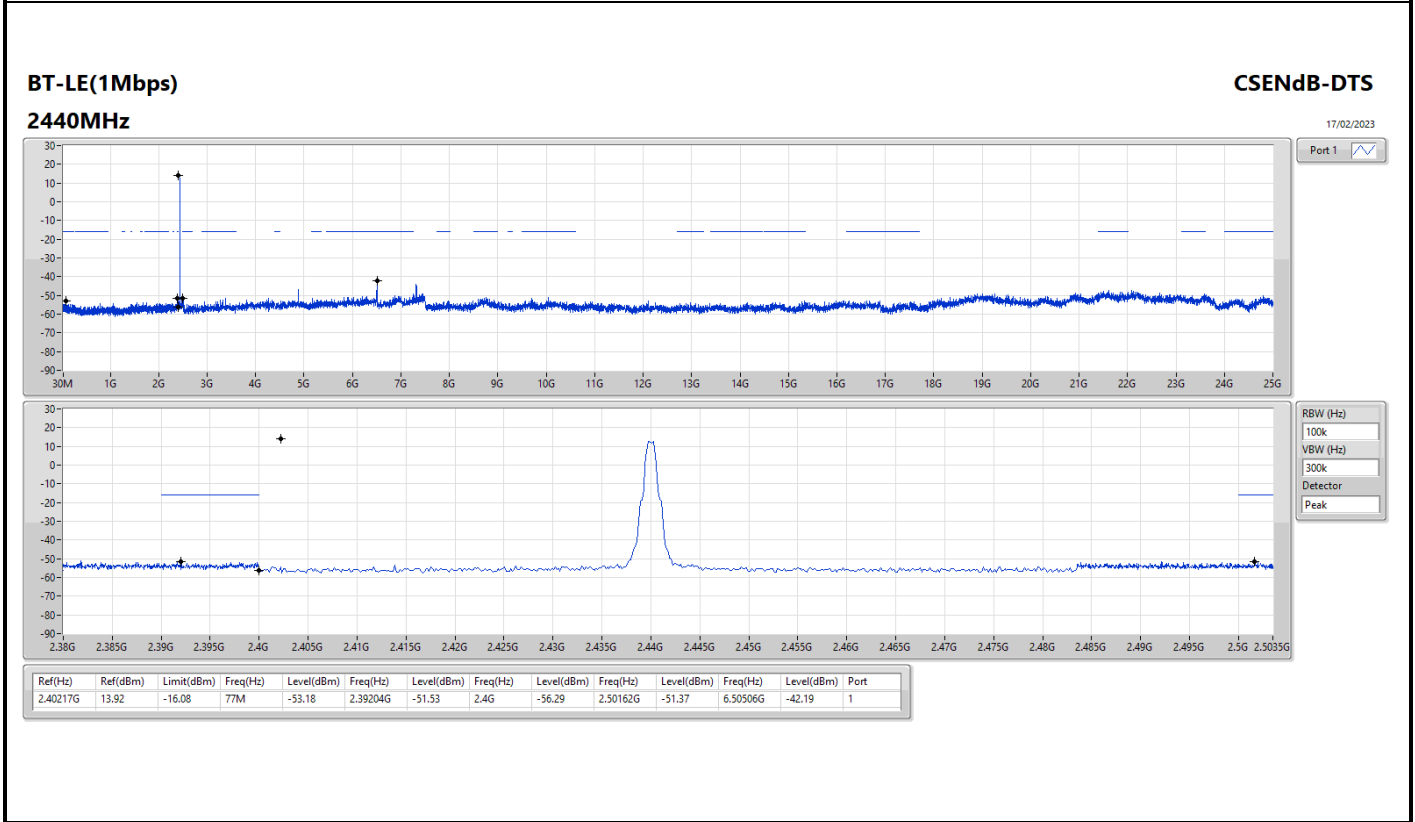
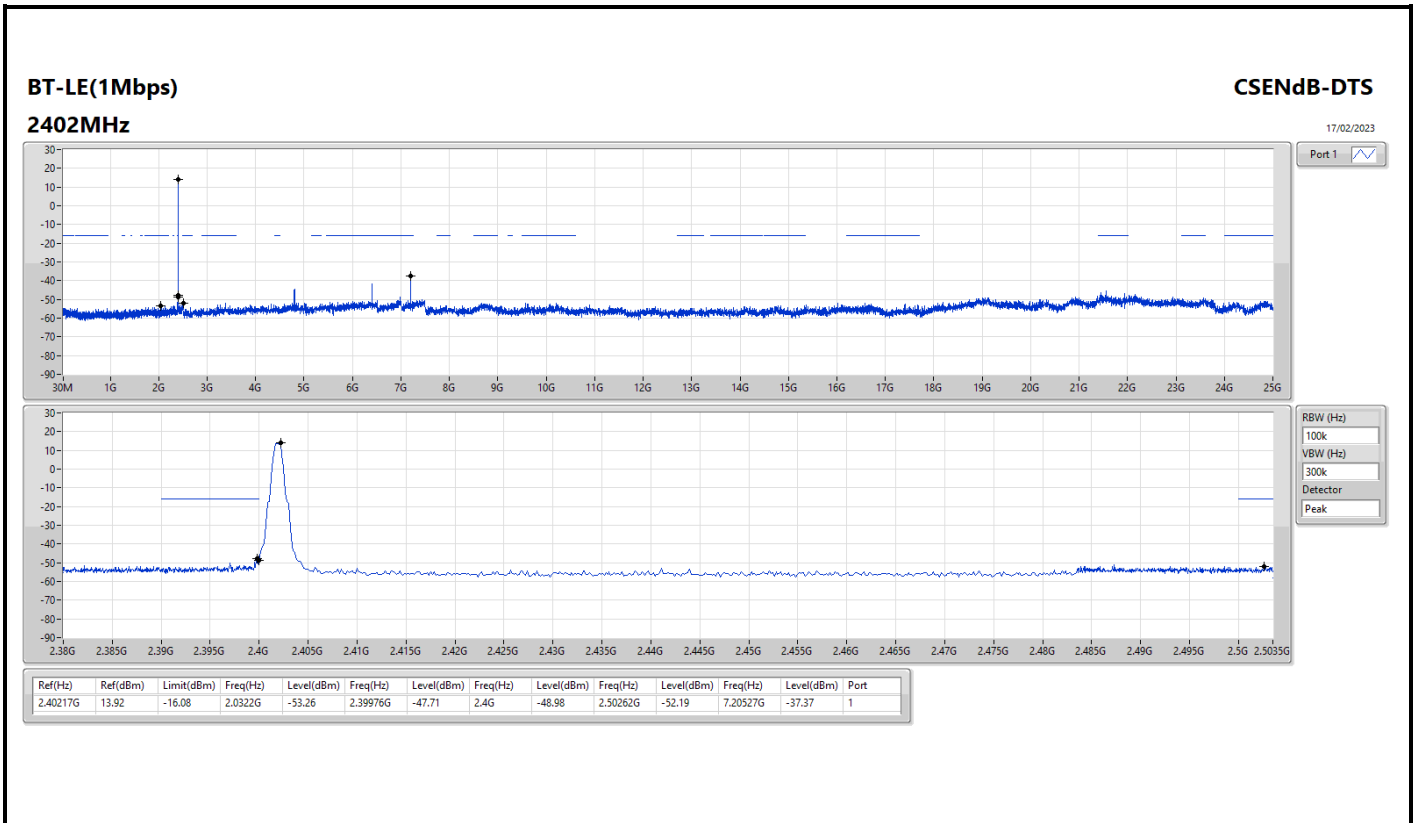


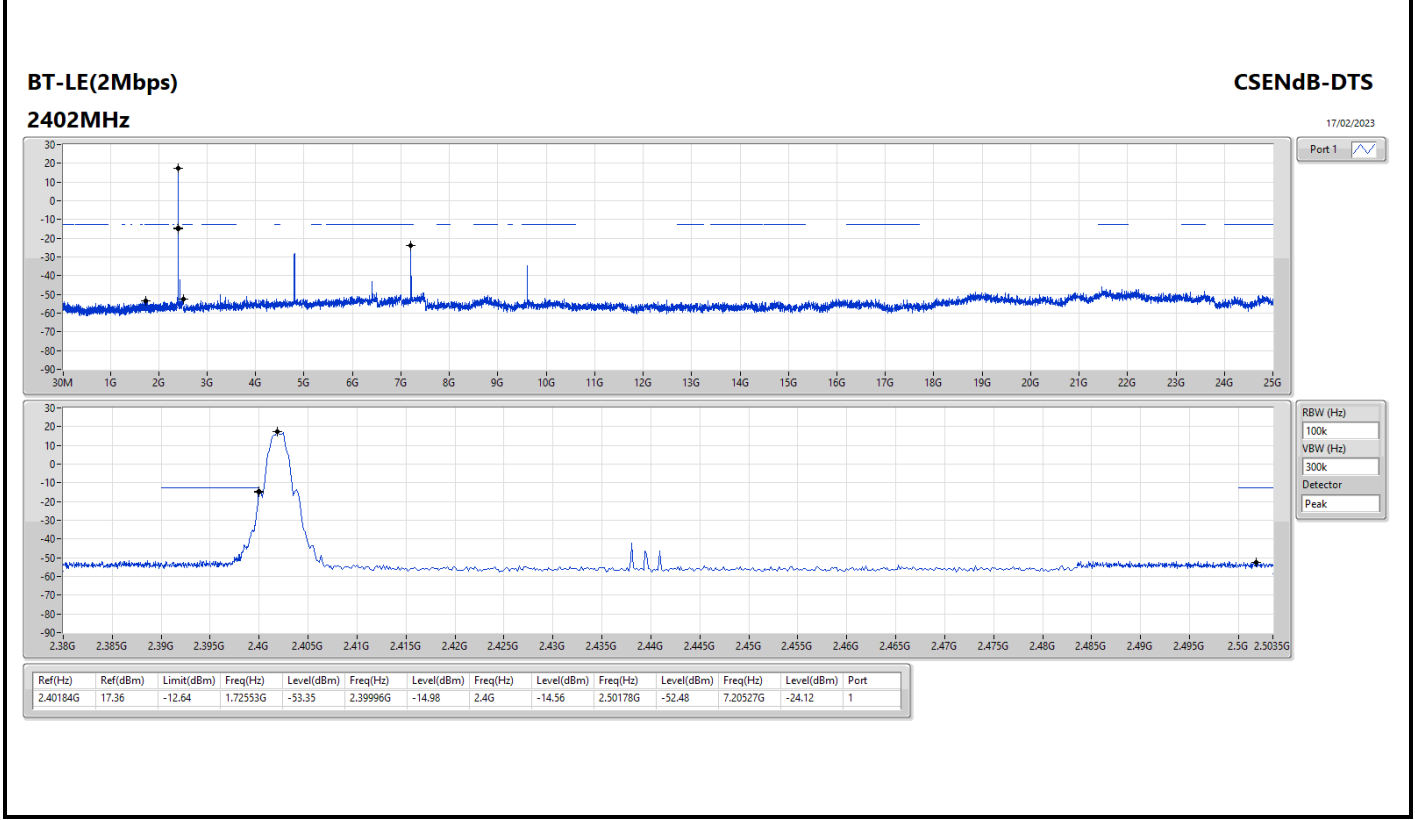
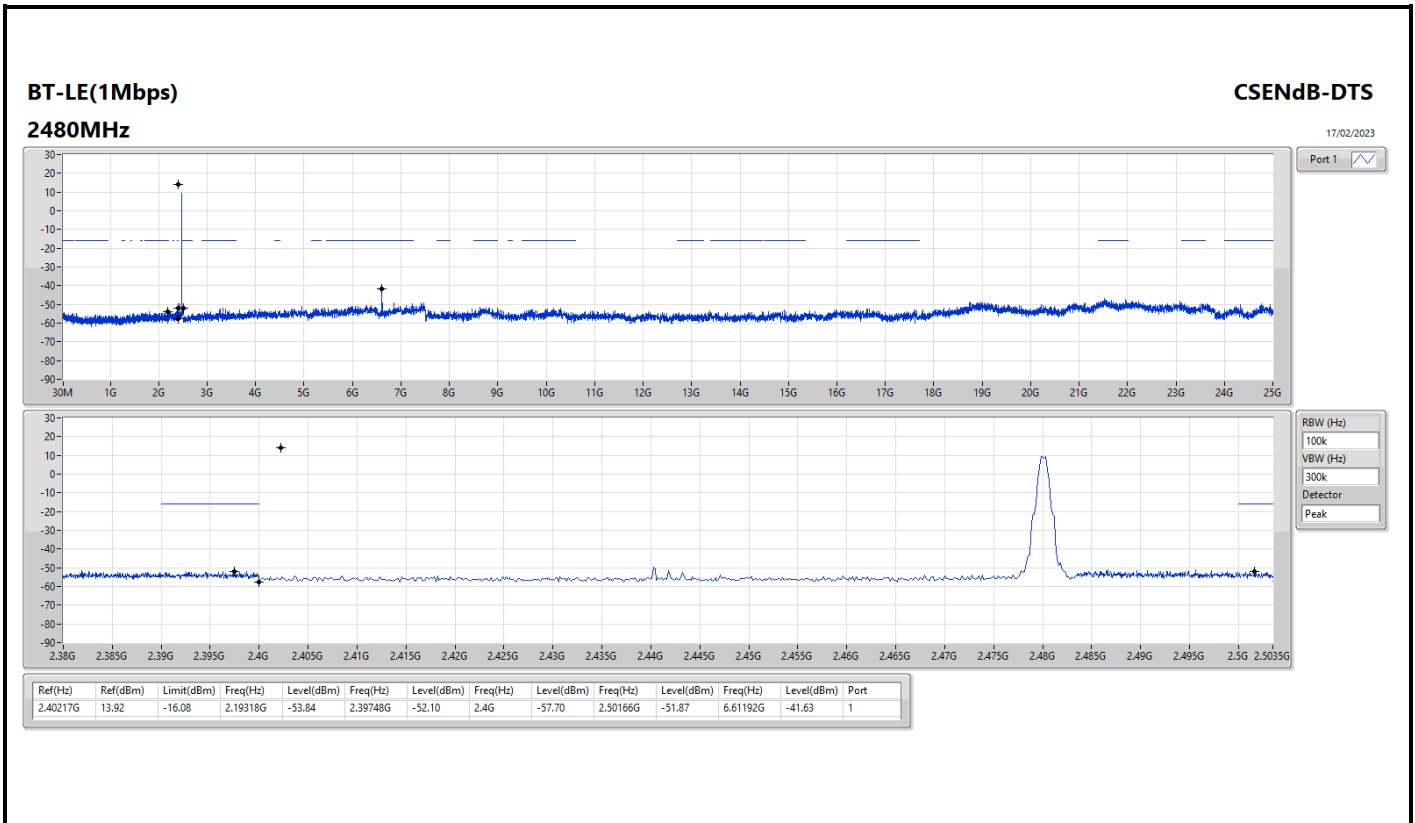
Summary

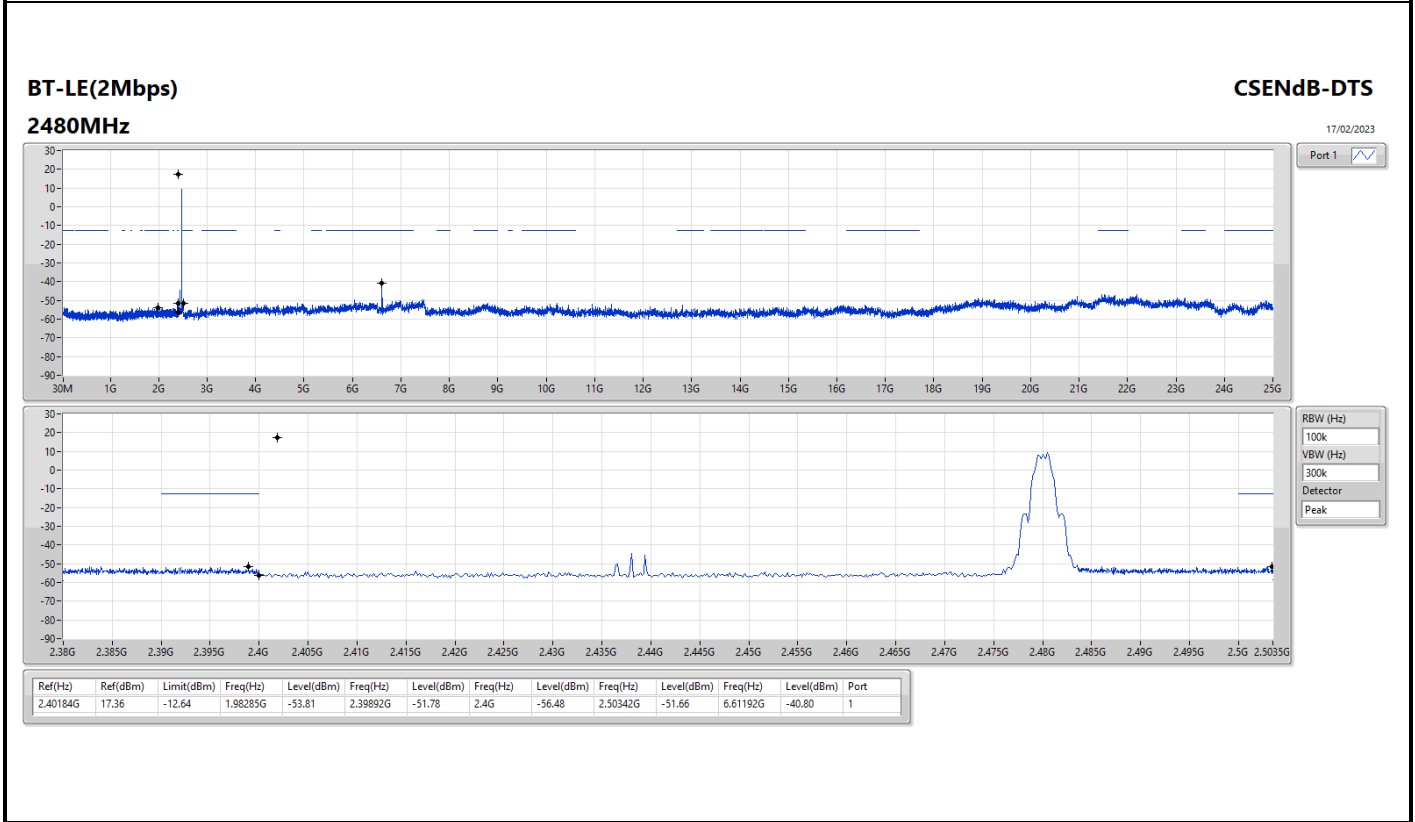
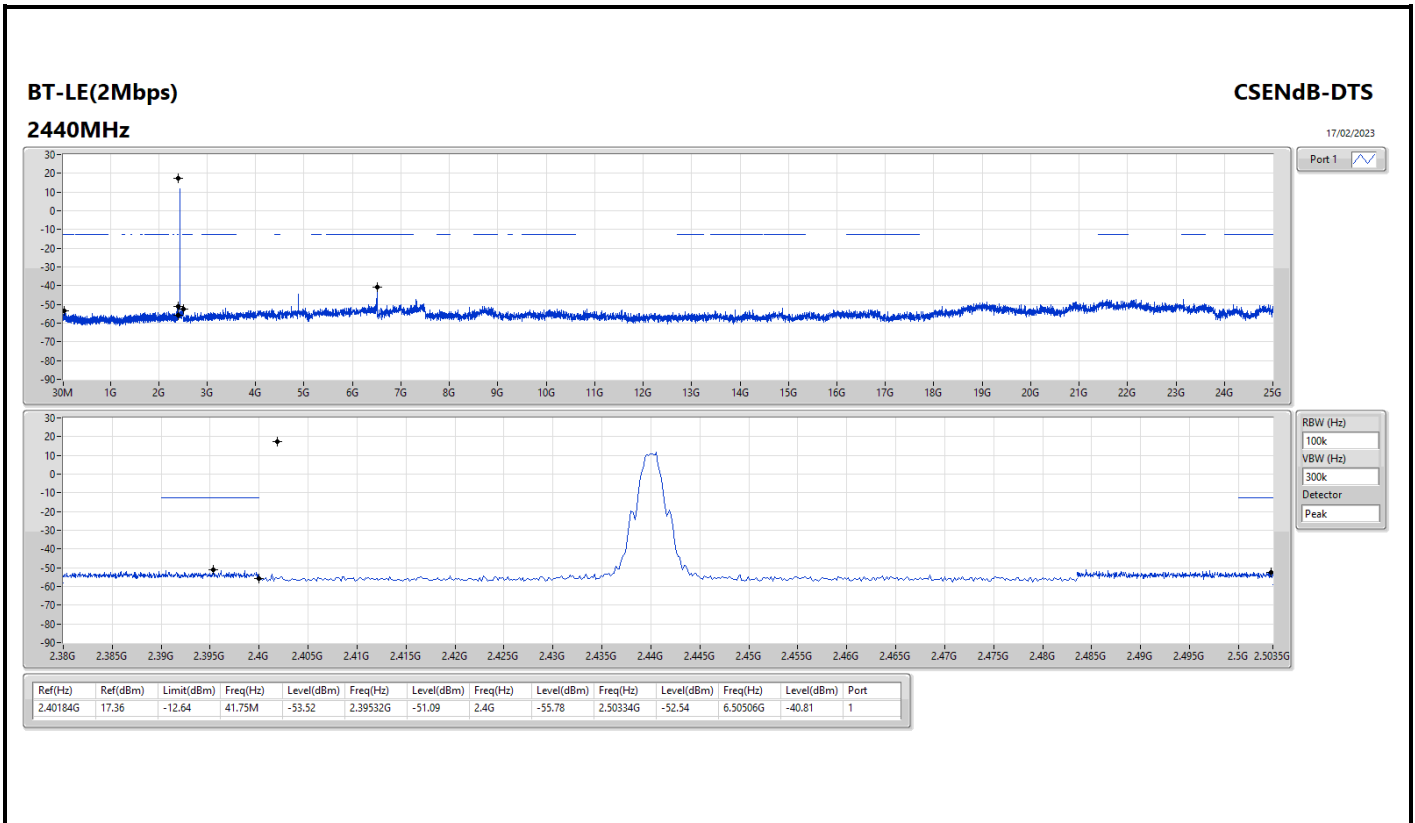
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	2.40217G	13.92	-16.08	2.0322G	-53.26	2.39976G	-47.71	2.4G	-48.98	2.50262G	-52.19	7.20527G	-37.37	1
BT-LE(2Mbps)	Pass	2.40184G	17.36	-12.64	1.72553G	-53.35	2.39996G	-14.98	2.4G	-14.56	2.50178G	-52.48	7.20527G	-24.12	1

Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40217G	13.92	-16.08	2.0322G	-53.26	2.39976G	-47.71	2.4G	-48.98	2.50262G	-52.19	7.20527G	-37.37	1
2440MHz	Pass	2.40217G	13.92	-16.08	77M	-53.18	2.39204G	-51.53	2.4G	-56.29	2.50162G	-51.37	6.50506G	-42.19	1
2480MHz	Pass	2.40217G	13.92	-16.08	2.19318G	-53.84	2.39748G	-52.10	2.4G	-57.70	2.50166G	-51.87	6.61192G	-41.63	1
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40184G	17.36	-12.64	1.72553G	-53.35	2.39996G	-14.98	2.4G	-14.56	2.50178G	-52.48	7.20527G	-24.12	1
2440MHz	Pass	2.40184G	17.36	-12.64	41.75M	-53.52	2.39532G	-51.09	2.4G	-55.78	2.50334G	-52.54	6.50506G	-40.81	1
2480MHz	Pass	2.40184G	17.36	-12.64	1.98285G	-53.81	2.39892G	-51.78	2.4G	-56.48	2.50342G	-51.66	6.61192G	-40.80	1





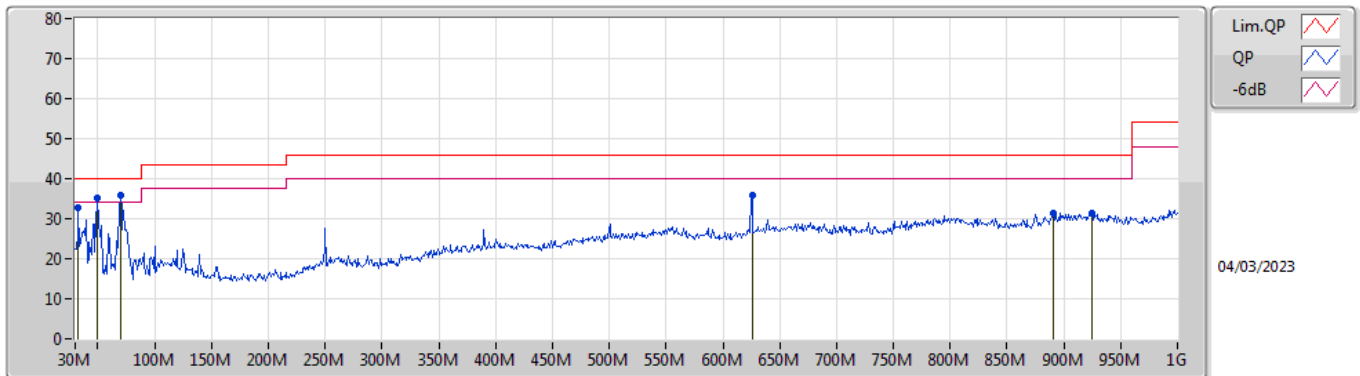




Summary

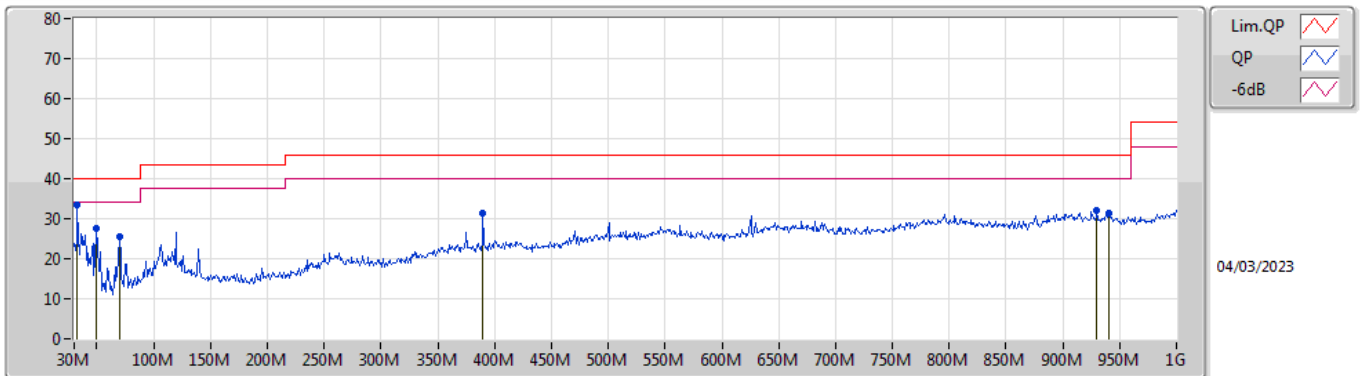
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	PK	69.77M	35.69	40.00	-4.31	Vertical

Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	32.91M	32.93	40.00	-7.07	-8.17	3	Vertical	340	1.50	-	41.10	22.41	1.05	31.63
PK	49.4M	35.03	40.00	-4.97	-16.33	3	Vertical	261	1.50	-	51.36	14.28	1.25	31.86
PK	69.77M	35.69	40.00	-4.31	-18.34	3	Vertical	357	1.25	"Worst"	54.03	12.18	1.45	31.97
PK	625.58M	35.90	46.00	-10.10	-3.47	3	Vertical	282	1.00	-	39.37	24.53	4.52	32.52
PK	890.39M	31.25	46.00	-14.75	-0.73	3	Vertical	86	1.00	-	31.98	26.14	5.62	32.49
PK	925.31M	31.21	46.00	-14.79	-0.63	3	Vertical	86	1.00	-	31.84	26.17	5.68	32.48

Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	32.91M	33.54	40.00	-6.46	-8.17	3	Horizontal	159	1.00	"Worst"	41.71	22.41	1.05	31.63
PK	49.4M	27.56	40.00	-12.44	-16.33	3	Horizontal	291	1.00	-	43.89	14.28	1.25	31.86
PK	69.77M	25.42	40.00	-14.58	-18.34	3	Horizontal	0	1.25	-	43.76	12.18	1.45	31.97
PK	389.87M	31.50	46.00	-14.50	-7.50	3	Horizontal	145	1.00	-	39.00	21.16	3.50	32.16
PK	930M	31.97	46.00	-14.03	-0.55	3	Horizontal	238	1.50	-	32.52	26.25	5.68	32.48
PK	940.83M	31.28	46.00	-14.72	-0.41	3	Horizontal	176	1.00	-	31.69	26.38	5.69	32.48

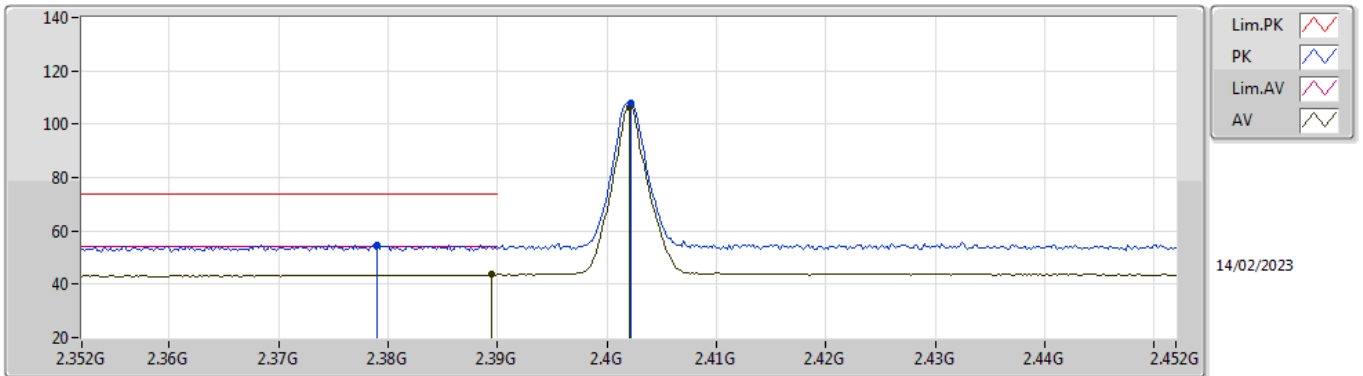


Summary

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(1Mbps)	Pass	AV	2.4835G	52.71	54.00	-1.29	3	Horizontal	24	2.05	-

BT-LE(1Mbps)

2402MHz_TX

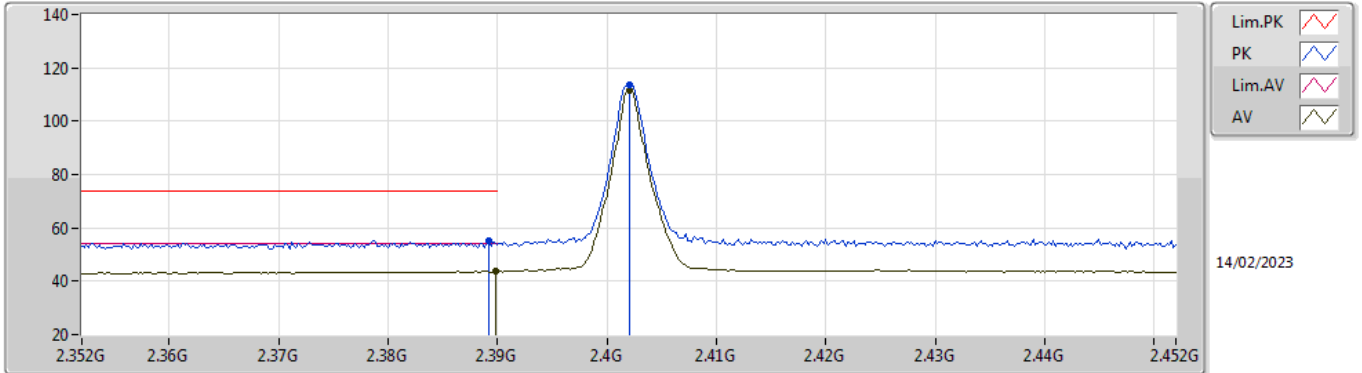


EUT Y_1TX
Setting 15
02-E-G-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.379G	54.75	74.00	-19.25	23.20	3	Vertical	282	2.04	-	28.36	3.19	-
AV	2.3894G	43.57	54.00	-10.43	12.00	3	Vertical	282	2.04	-	28.38	3.19	-
PK	2.4022G	108.03	Inf	-Inf	76.43	3	Vertical	282	2.04	-	28.40	3.20	-
AV	2.402G	106.50	Inf	-Inf	74.90	3	Vertical	282	2.04	-	28.40	3.20	-

BT-LE(1Mbps)

2402MHz_TX

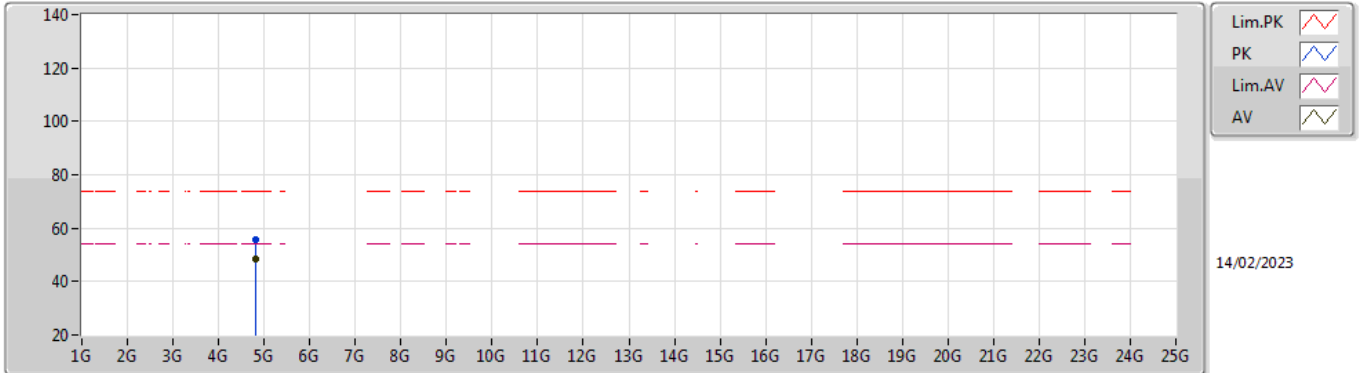


EUT_V_1TX
Setting 15
02-E-G-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3892G	55.38	74.00	-18.62	23.81	3	Horizontal	5	2.59	-	28.38	3.19	-
AV	2.3898G	43.64	54.00	-10.36	12.07	3	Horizontal	5	2.59	-	28.38	3.19	-
PK	2.402G	113.50	Inf	-Inf	81.90	3	Horizontal	5	2.59	-	28.40	3.20	-
AV	2.402G	111.79	Inf	-Inf	80.19	3	Horizontal	5	2.59	-	28.40	3.20	-

BT-LE(1Mbps)

2402MHz_TX

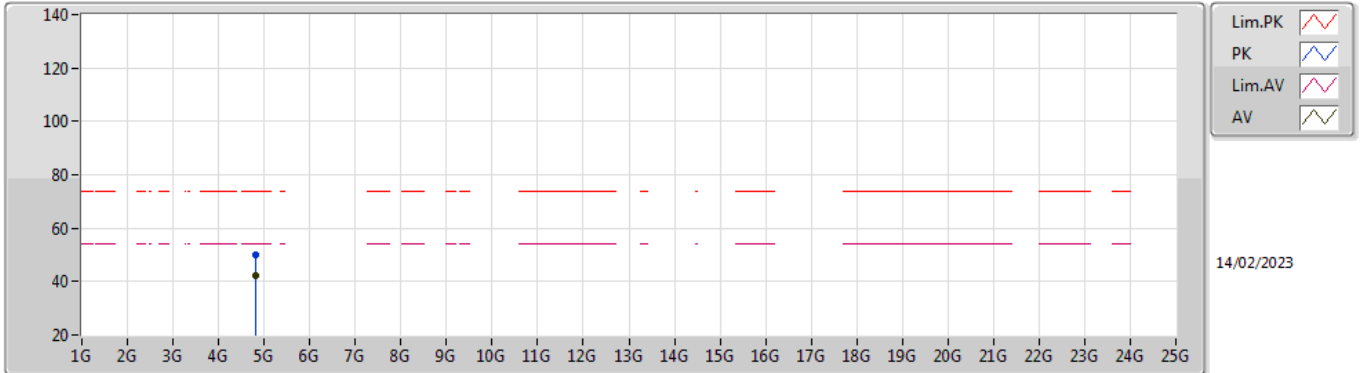


EUT_X_1TX
Setting 15
02-E-G-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.80388G	55.83	74.00	-18.17	48.22	3	Vertical	91	2.30	-	32.82	5.60	30.81
AV	4.804G	48.66	54.00	-5.34	41.05	3	Vertical	91	2.30	-	32.82	5.60	30.81

BT-LE(1Mbps)

2402MHz_TX

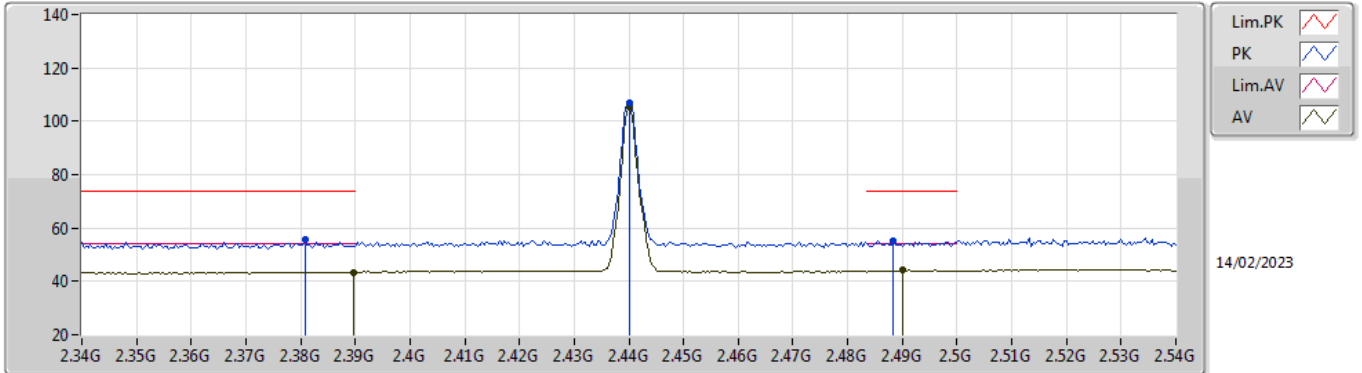


EUT_X_1TX
Setting 15
02-E-G-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.804G	49.81	74.00	-24.19	46.29	3	Horizontal	265	1.79	-	32.82	5.60	34.90
AV	4.80406G	42.16	54.00	-11.84	38.64	3	Horizontal	265	1.79	-	32.82	5.60	34.90

BT-LE(1Mbps)

2440MHz_TX

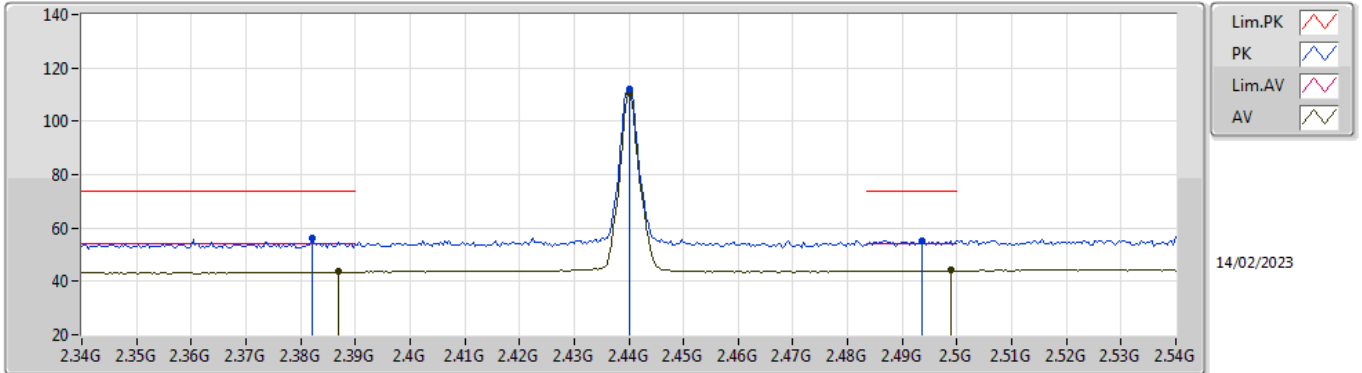


EUT_V_1TX
Setting 14
02-E-G-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3808G	55.76	74.00	-18.24	24.21	3	Vertical	280	2.24	-	28.36	3.19	-
AV	2.3896G	43.52	54.00	-10.48	11.95	3	Vertical	280	2.24	-	28.38	3.19	-
PK	2.44G	106.86	Inf	-Inf	75.24	3	Vertical	280	2.24	-	28.40	3.22	-
AV	2.44G	105.35	Inf	-Inf	73.73	3	Vertical	280	2.24	-	28.40	3.22	-
PK	2.4884G	55.30	74.00	-18.70	23.51	3	Vertical	280	2.24	-	28.55	3.24	-
AV	2.49G	44.11	54.00	-9.89	12.30	3	Vertical	280	2.24	-	28.56	3.25	-

BT-LE(1Mbps)

2440MHz_TX

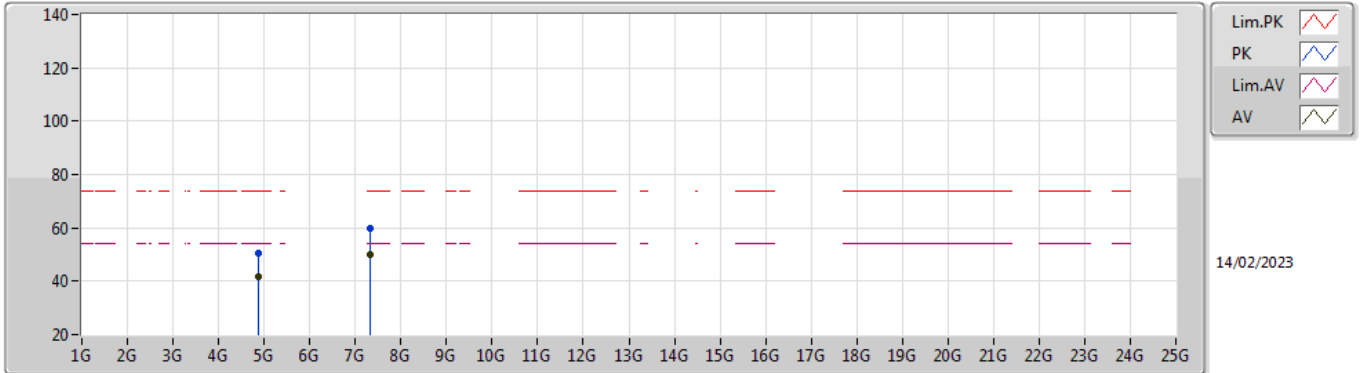


EUT_V_1TX
Setting 14
02-E-G-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.382G	56.01	74.00	-17.99	24.46	3	Horizontal	9	2.54	-	28.36	3.19	-
AV	2.3868G	43.62	54.00	-10.38	12.06	3	Horizontal	9	2.54	-	28.37	3.19	-
PK	2.44G	111.94	Inf	-Inf	80.32	3	Horizontal	9	2.54	-	28.40	3.22	-
AV	2.44G	110.33	Inf	-Inf	78.71	3	Horizontal	9	2.54	-	28.40	3.22	-
PK	2.4936G	55.13	74.00	-18.87	23.31	3	Horizontal	9	2.54	-	28.57	3.25	-
AV	2.4988G	44.06	54.00	-9.94	12.21	3	Horizontal	9	2.54	-	28.60	3.25	-

BT-LE(1Mbps)

2440MHz_TX

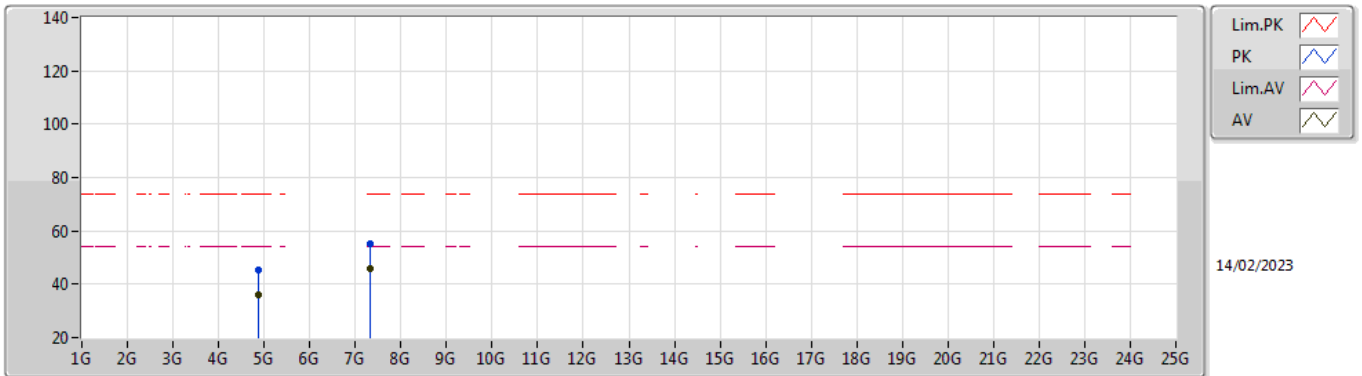


EUT_X_1TX
Setting 14
02-E-G-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.88006G	50.44	74.00	-23.56	42.42	3	Vertical	285	2.49	-	33.16	5.64	30.78
AV	4.88G	41.91	54.00	-12.09	33.89	3	Vertical	285	2.49	-	33.16	5.64	30.78
PK	7.31987G	59.69	74.00	-14.31	48.34	3	Vertical	263	2.95	-	36.44	6.84	31.93
AV	7.31973G	50.20	54.00	-3.80	38.85	3	Vertical	263	2.95	-	36.44	6.84	31.93

BT-LE(1Mbps)

2440MHz_TX

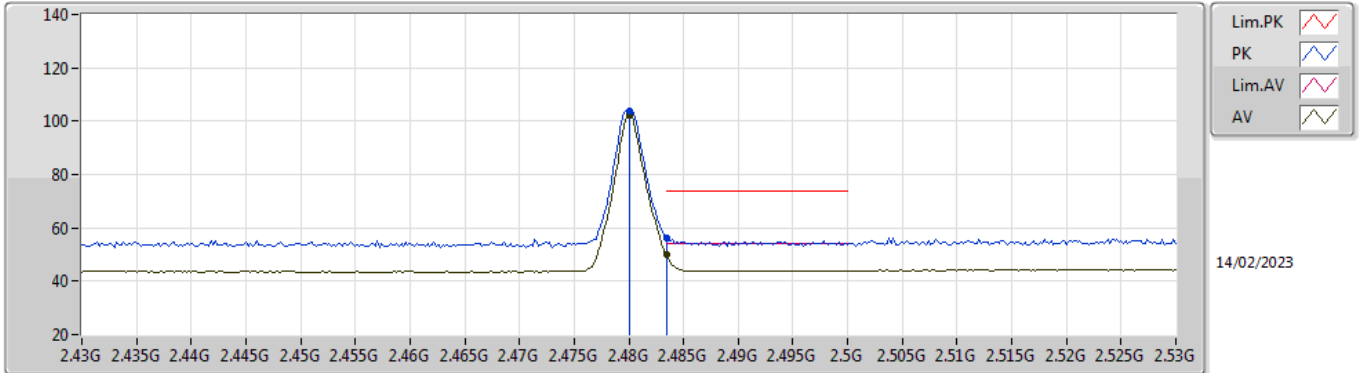


EUT_X_1TX
Setting 14
02-E-G-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.88018G	45.57	74.00	-28.43	41.66	3	Horizontal	264	1.72	-	33.16	5.64	34.89
AV	4.88G	35.92	54.00	-18.08	32.01	3	Horizontal	264	1.72	-	33.16	5.64	34.89
PK	7.31988G	55.42	74.00	-18.58	47.29	3	Horizontal	200	2.10	-	36.44	6.84	35.15
AV	7.31978G	45.96	54.00	-8.04	37.83	3	Horizontal	200	2.10	-	36.44	6.84	35.15

BT-LE(1Mbps)

2480MHz_TX

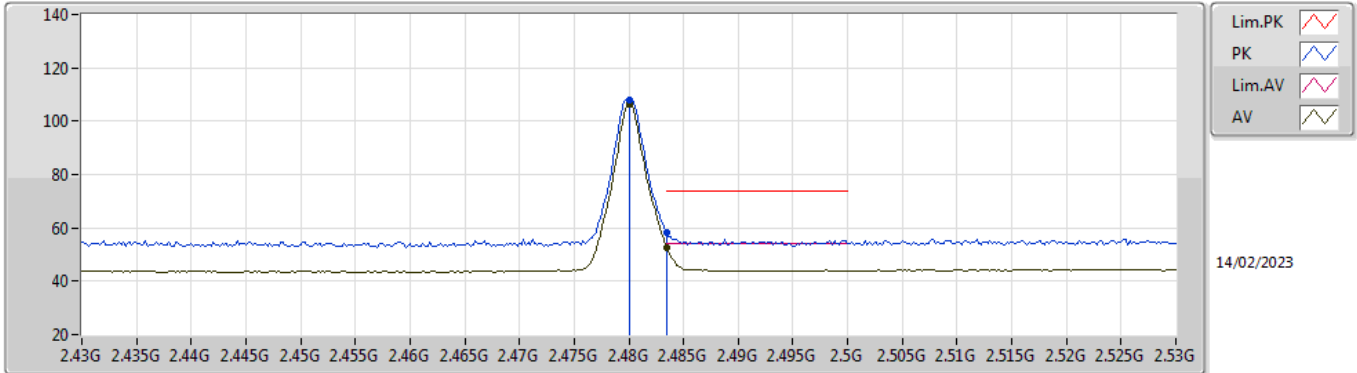


EUT Y_1TX
Setting 11
02-E-G-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.48G	103.94	Inf	-Inf	72.18	3	Vertical	290	2.42	-	28.52	3.24	-
AV	2.48G	102.39	Inf	-Inf	70.63	3	Vertical	290	2.42	-	28.52	3.24	-
PK	2.4835G	55.95	74.00	-18.05	24.18	3	Vertical	290	2.42	-	28.53	3.24	-
AV	2.4835G	49.89	54.00	-4.11	18.12	3	Vertical	290	2.42	-	28.53	3.24	-

BT-LE(1Mbps)

2480MHz_TX

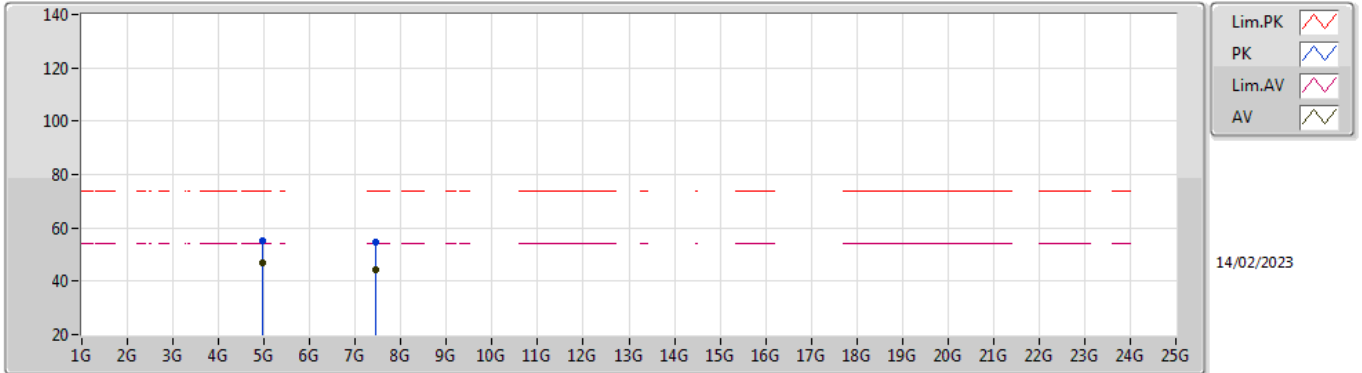


EUT_V_1TX
Setting 11
02-E-G-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.48G	107.93	Inf	-Inf	76.17	3	Horizontal	24	2.05	-	28.52	3.24	-
AV	2.48G	106.34	Inf	-Inf	74.58	3	Horizontal	24	2.05	-	28.52	3.24	-
PK	2.4835G	58.27	74.00	-15.73	26.50	3	Horizontal	24	2.05	-	28.53	3.24	-
AV	2.4835G	52.71	54.00	-1.29	20.94	3	Horizontal	24	2.05	-	28.53	3.24	-

BT-LE(1Mbps)

2480MHz_TX

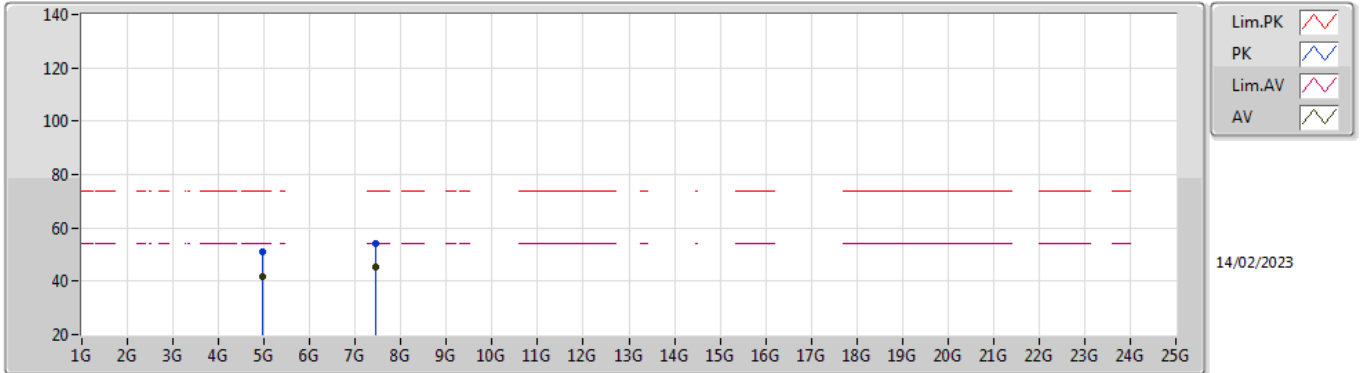


EUT_X_1TX
Setting 11
02-E-G-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.96G	55.08	74.00	-18.92	46.83	3	Vertical	46	1.01	-	33.32	5.68	30.75
AV	4.9602G	46.85	54.00	-7.15	38.60	3	Vertical	46	1.01	-	33.32	5.68	30.75
PK	7.44012G	54.40	74.00	-19.60	43.06	3	Vertical	267	2.42	-	36.50	6.84	32.00
AV	7.4399G	44.29	54.00	-9.71	32.95	3	Vertical	267	2.42	-	36.50	6.84	32.00

BT-LE(1Mbps)

2480MHz_TX

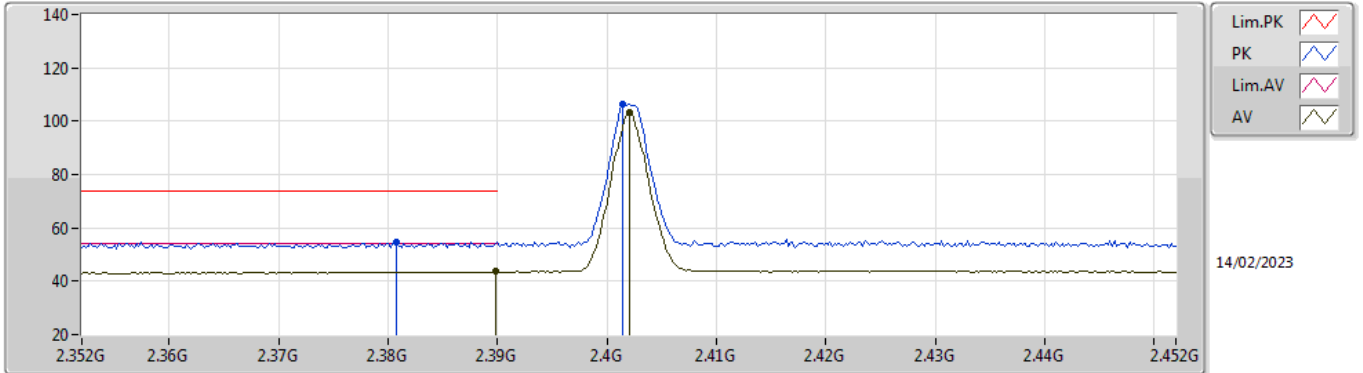


EUT_X_1TX
Setting 11
02-E-G-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.96003G	51.02	74.00	-22.98	46.91	3	Horizontal	346	1.93	-	33.32	5.68	34.89
AV	4.95998G	41.87	54.00	-12.13	37.76	3	Horizontal	346	1.93	-	33.32	5.68	34.89
PK	7.43993G	54.38	74.00	-19.62	46.24	3	Horizontal	353	2.04	-	36.50	6.84	35.20
AV	7.43988G	45.34	54.00	-8.66	37.20	3	Horizontal	353	2.04	-	36.50	6.84	35.20

BT-LE(2Mbps)

2402MHz_TX

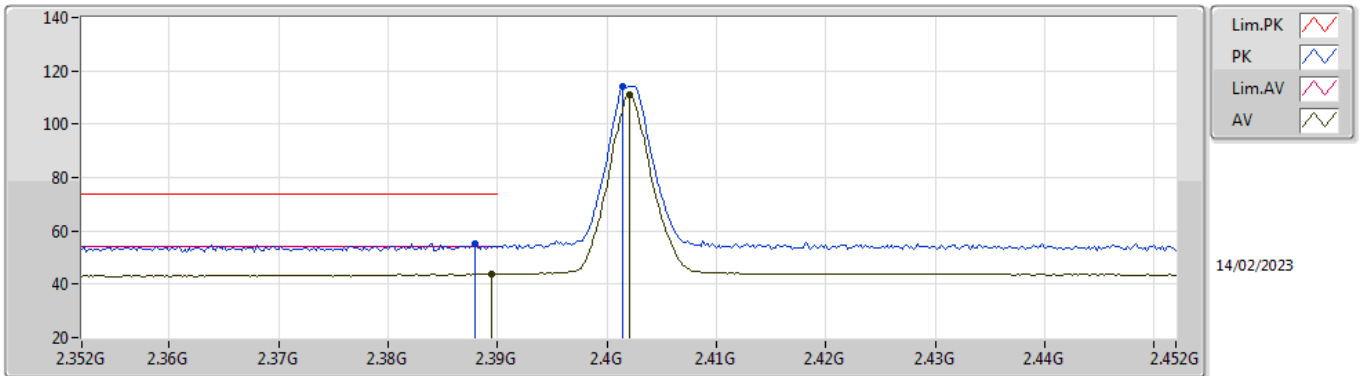


EUT Y_1TX
Setting 18
02-E-W-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3808G	54.67	74.00	-19.33	23.12	3	Vertical	140	1.11	-	28.36	3.19	-
AV	2.3898G	43.62	54.00	-10.38	12.05	3	Vertical	140	1.11	-	28.38	3.19	-
PK	2.4014G	106.21	Inf	-Inf	74.61	3	Vertical	140	1.11	-	28.40	3.20	-
AV	2.402G	103.05	Inf	-Inf	71.45	3	Vertical	140	1.11	-	28.40	3.20	-

BT-LE(2Mbps)

2402MHz_TX

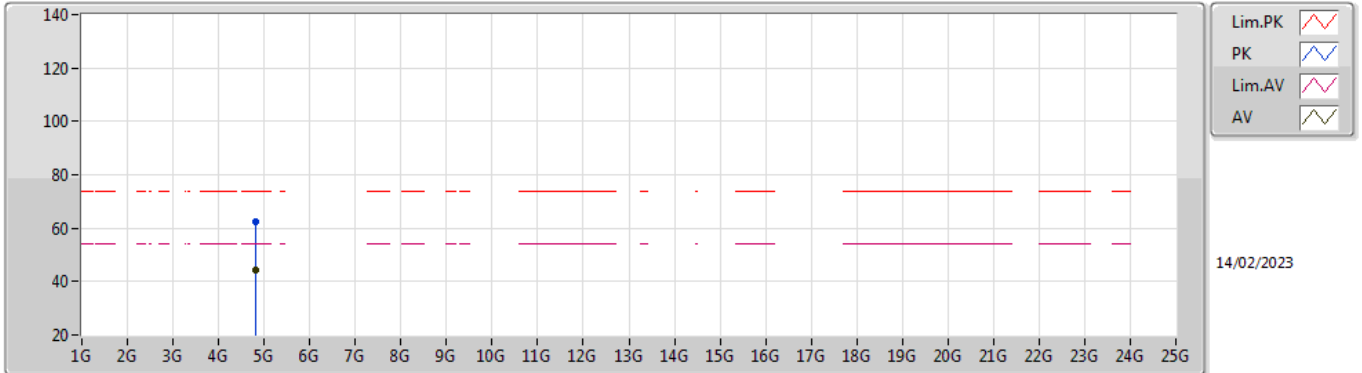


EUT Y_1TX
Setting 18
02-E-W-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.388G	55.20	74.00	-18.80	23.63	3	Horizontal	200	2.16	-	28.38	3.19	-
AV	2.3894G	43.98	54.00	-10.02	12.41	3	Horizontal	200	2.16	-	28.38	3.19	-
PK	2.4014G	114.17	Inf	-Inf	82.57	3	Horizontal	200	2.16	-	28.40	3.20	-
AV	2.402G	111.07	Inf	-Inf	79.47	3	Horizontal	200	2.16	-	28.40	3.20	-

BT-LE(2Mbps)

2402MHz_TX

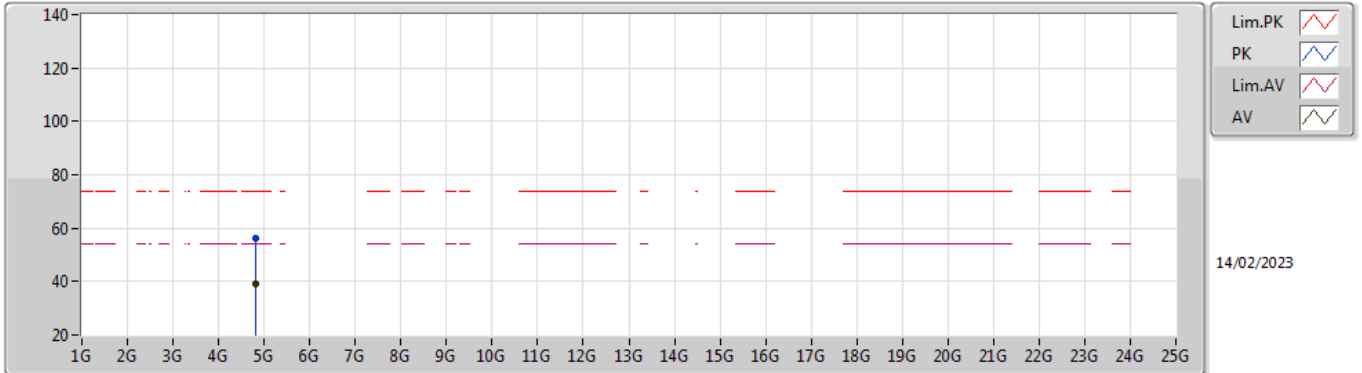


EUT X_1TX
Setting 18
02-E-G-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.80291G	62.50	74.00	-11.50	54.89	3	Vertical	95	2.42	-	32.82	5.60	30.81
AV	4.80436G	44.22	54.00	-9.78	36.60	3	Vertical	95	2.42	-	32.83	5.60	30.81

BT-LE(2Mbps)

2402MHz_TX

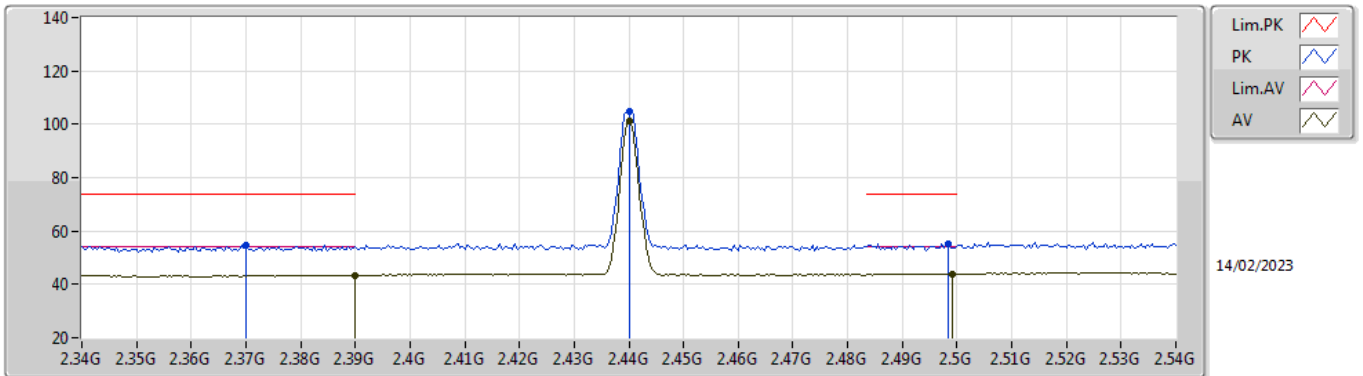


EUT X_1TX
Setting 18
02-E-G-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.80283G	56.36	74.00	-17.64	52.84	3	Horizontal	267	1.96	-	32.82	5.60	34.90
AV	4.80356G	38.94	54.00	-15.06	35.42	3	Horizontal	267	1.96	-	32.82	5.60	34.90

BT-LE(2Mbps)

2440MHz_TX

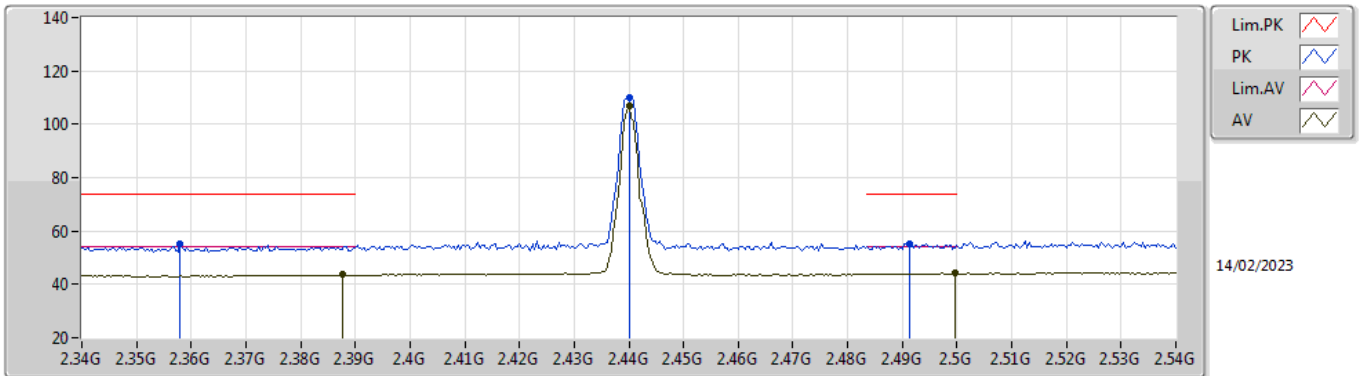


EUT_V_1TX
Setting 14
02-E-W-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.37G	54.50	74.00	-19.50	22.97	3	Vertical	65	2.65	-	28.34	3.19	-
AV	2.39G	43.53	54.00	-10.47	11.95	3	Vertical	65	2.65	-	28.38	3.20	-
PK	2.44G	104.86	Inf	-Inf	73.24	3	Vertical	65	2.65	-	28.40	3.22	-
AV	2.44G	101.04	Inf	-Inf	69.42	3	Vertical	65	2.65	-	28.40	3.22	-
PK	2.4984G	55.30	74.00	-18.70	23.46	3	Vertical	65	2.65	-	28.59	3.25	-
AV	2.4992G	44.05	54.00	-9.95	12.20	3	Vertical	65	2.65	-	28.60	3.25	-

BT-LE(2Mbps)

2440MHz_TX

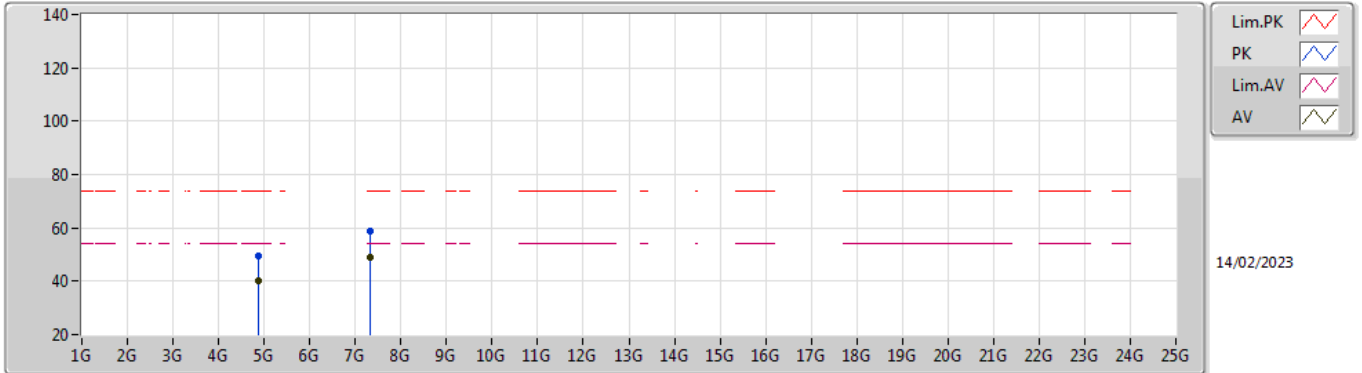


EUT_V_1TX
Setting 14
02-E-W-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.358G	55.22	74.00	-18.78	23.72	3	Horizontal	30	2.89	-	28.32	3.18	-
AV	2.3876G	43.54	54.00	-10.46	11.97	3	Horizontal	30	2.89	-	28.38	3.19	-
PK	2.44G	110.15	Inf	-Inf	78.53	3	Horizontal	30	2.89	-	28.40	3.22	-
AV	2.44G	106.66	Inf	-Inf	75.04	3	Horizontal	30	2.89	-	28.40	3.22	-
PK	2.4912G	55.08	74.00	-18.92	23.27	3	Horizontal	30	2.89	-	28.56	3.25	-
AV	2.4996G	44.14	54.00	-9.86	12.29	3	Horizontal	30	2.89	-	28.60	3.25	-

BT-LE(2Mbps)

2440MHz_TX

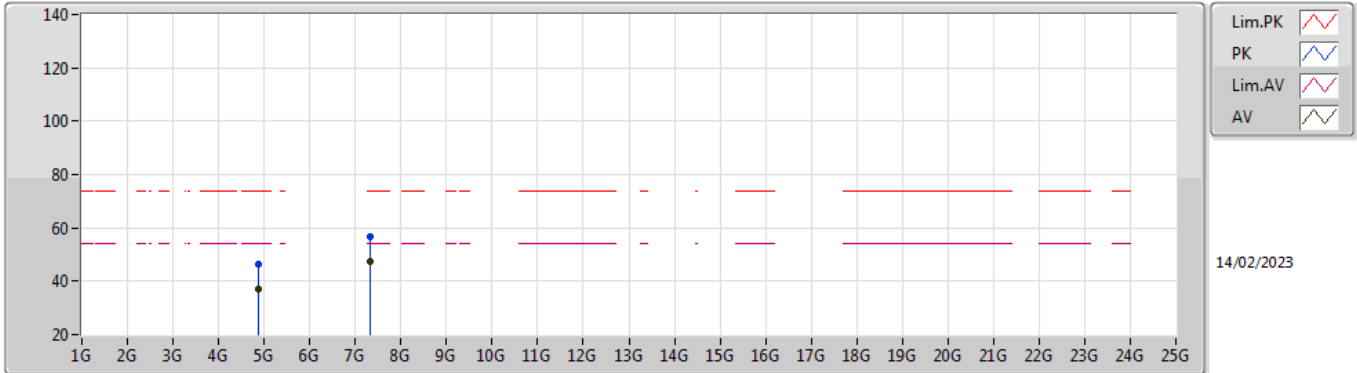


EUT_X_1TX
Setting 14
02-E-G-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87997G	49.70	74.00	-24.30	41.68	3	Vertical	269	2.90	-	33.16	5.64	30.78
AV	4.87997G	40.34	54.00	-13.66	32.32	3	Vertical	269	2.90	-	33.16	5.64	30.78
PK	7.31996G	58.64	74.00	-15.36	47.29	3	Vertical	266	2.96	-	36.44	6.84	31.93
AV	7.31892G	49.04	54.00	-4.96	37.68	3	Vertical	266	2.96	-	36.44	6.84	31.92

BT-LE(2Mbps)

2440MHz_TX

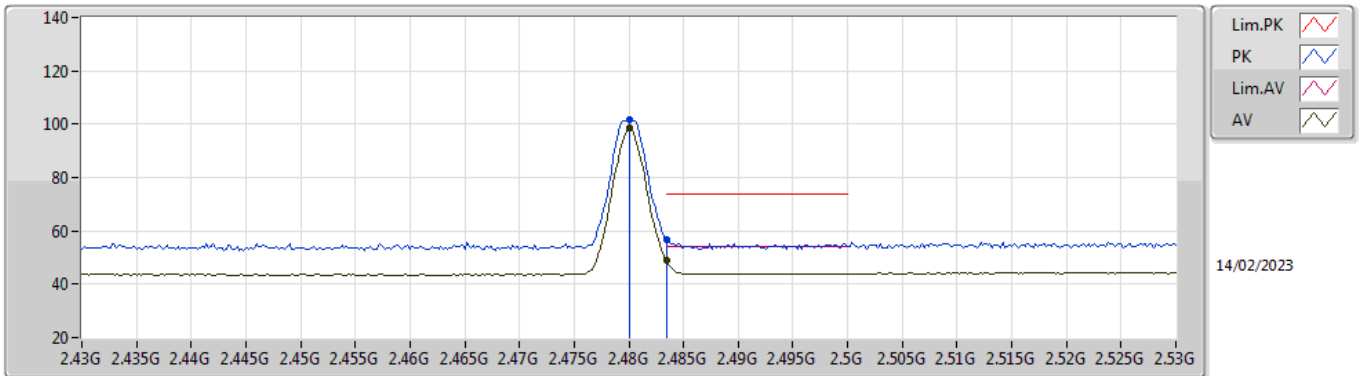


EUT_X_1TX
Setting 14
02-E-G-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87967G	46.22	74.00	-27.78	42.31	3	Horizontal	3	2.30	-	33.16	5.64	34.89
AV	4.87995G	36.82	54.00	-17.18	32.91	3	Horizontal	3	2.30	-	33.16	5.64	34.89
PK	7.3201G	56.71	74.00	-17.29	48.58	3	Horizontal	214	2.39	-	36.44	6.84	35.15
AV	7.31893G	47.21	54.00	-6.79	39.08	3	Horizontal	214	2.39	-	36.44	6.84	35.15

BT-LE(2Mbps)

2480MHz_TX

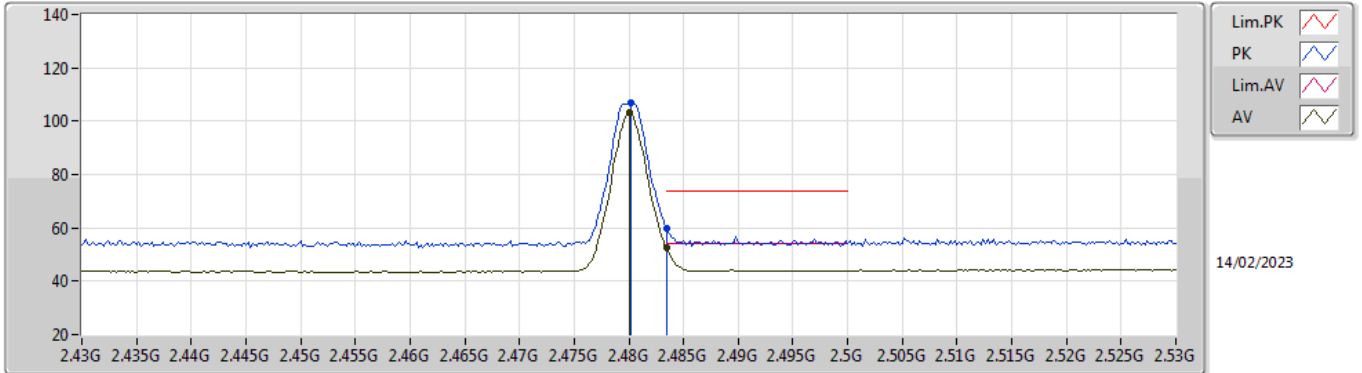


EUT Y_1TX
Setting 11
02-E-W-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.48G	101.80	Inf	-Inf	70.04	3	Vertical	263	3.00	-	28.52	3.24	-
AV	2.48G	98.43	Inf	-Inf	66.67	3	Vertical	263	3.00	-	28.52	3.24	-
PK	2.4835G	56.50	74.00	-17.50	24.73	3	Vertical	263	3.00	-	28.53	3.24	-
AV	2.4835G	49.08	54.00	-4.92	17.31	3	Vertical	263	3.00	-	28.53	3.24	-

BT-LE(2Mbps)

2480MHz_TX

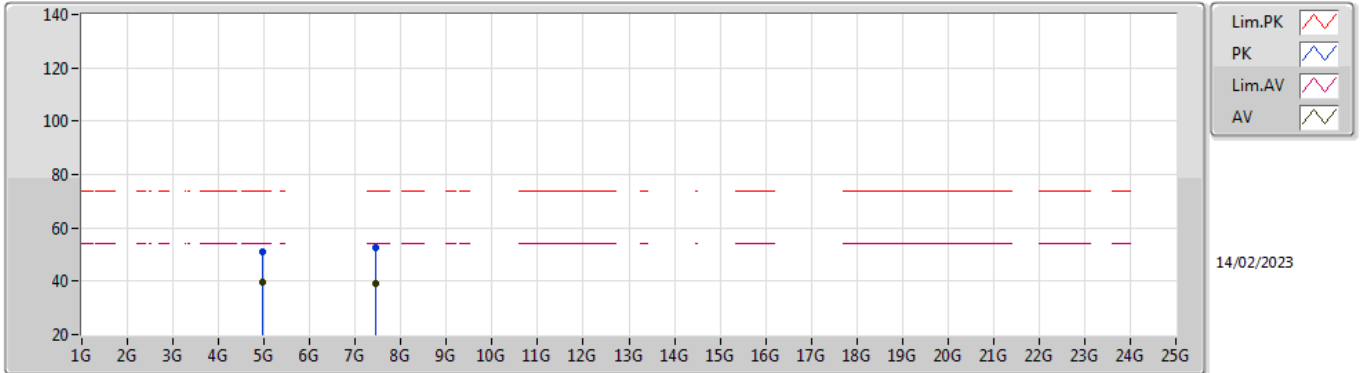


EUT Y_1TX
Setting 11
02-E-W-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4802G	106.85	Inf	-Inf	75.09	3	Horizontal	198	2.52	-	28.52	3.24	-
AV	2.48G	103.35	Inf	-Inf	71.59	3	Horizontal	198	2.52	-	28.52	3.24	-
PK	2.4835G	60.03	74.00	-13.97	28.26	3	Horizontal	198	2.52	-	28.53	3.24	-
AV	2.4835G	52.57	54.00	-1.43	20.80	3	Horizontal	198	2.52	-	28.53	3.24	-

BT-LE(2Mbps)

2480MHz_TX

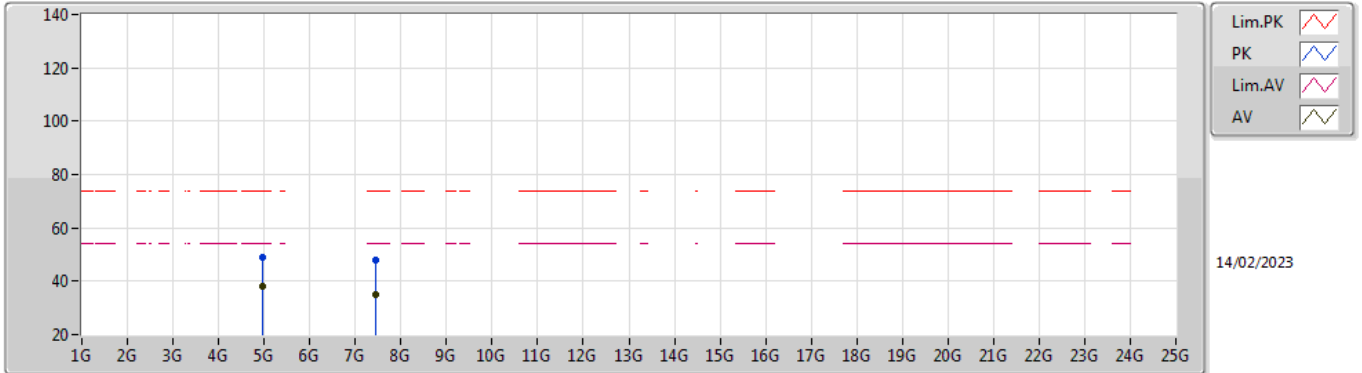


EUT_X_1TX
Setting 11
02-E-W-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.96097G	50.91	74.00	-23.09	42.66	3	Vertical	218	1.00	-	33.32	5.68	30.75
AV	4.96093G	39.86	54.00	-14.14	31.61	3	Vertical	218	1.00	-	33.32	5.68	30.75
PK	7.44165G	52.61	74.00	-21.39	41.27	3	Vertical	251	3.00	-	36.50	6.84	32.00
AV	7.43862G	39.37	54.00	-14.63	28.02	3	Vertical	251	3.00	-	36.50	6.84	31.99

BT-LE(2Mbps)

2480MHz_TX



EUT_X_1TX
Setting 11
02-E-W-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.961G	48.79	74.00	-25.21	44.68	3	Horizontal	30	2.37	-	33.32	5.68	34.89
AV	4.95897G	38.01	54.00	-15.99	33.90	3	Horizontal	30	2.37	-	33.32	5.68	34.89
PK	7.43844G	47.79	74.00	-26.21	39.65	3	Horizontal	354	2.04	-	36.50	6.84	35.20
AV	7.43862G	35.08	54.00	-18.92	26.94	3	Horizontal	354	2.04	-	36.50	6.84	35.20