



RADIO TEST REPORT

FCC ID : RAXAiOS65V
Equipment : HEOS 6.5 Platform Module
Brand Name : Arcadyan
Model Name : WN9722NAX22-E7(AiOS6.5 Type-V)
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 Aug. 24, 2022, and testing was started from Sep. 03, 2022 and completed on Oct. 13, 2022. 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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TEL : 886-3-656-9065
FAX : 886-3-656-9085
Report Template No.: CB-A10_6 Ver1.3



Summary of Test Result

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

Declaration of Conformity:

1. The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers. It's means measurement values may risk exceeding the limit of regulation standards, if measurement uncertainty is include in test results.
2. The measurement uncertainty please refer to report "Measurement Uncertainty".

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Sam Chen

Report Producer: Penny Kao



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
2.4G	BT-LE(1Mbps)	1	1
2.4G	BT-LE(500Kb/s)	1	1
2.4G	BT-LE(125Kb/s)	1	1
2.4G	BT-LE(2Mbps)	2	1

Note:

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


1.1.2 Antenna Information

Ant.	Port		Brand	Model Name	Type	Connector	Gain(dBi)		Cable Loss (dBi)		Net Gain (dBi)		Cable Length (mm)
	WLAN 2.4GHz /BT	WLAN 5GHz					WLAN 2.4GHz /BT	WLAN 5GHz	WLAN 2.4GHz /BT	WLAN 5GHz	WLAN 2.4GHz /BT	WLAN 5GHz	
1	1/2	-	Airgain	N2420DG3-T2L-PK1-G30U	Dipole	I-PEX	3.1	2.8	0.11	0.15	3	2.65	30
2	-	-	Airgain	N2420DG3-T2L-PK1-G100U	Dipole	I-PEX	3.1	2.8	0.35	0.49	2.75	2.31	100
3	-	-	Airgain	N2420DG3-T2L-PK1-G600U	Dipole	I-PEX	3.1	2.8	2.10	2.94	1	-0.14	600
4	-	-	Airgain	N2420DG3-T2L-PK1-G400U	Dipole	I-PEX	3.1	2.8	1.40	1.96	1.7	0.84	400
5	-	-	Airgain	N2420DG3-T2L-PK1-G300U	Dipole	I-PEX	3.1	2.8	1.05	1.47	2.05	1.33	300
6	-	1/2	Airgain	N2425D-T2L-PK1-G30U	PIFA	I-PEX	1.9	3.5	0.11	0.15	1.8	3.35	30
7	-	-	Airgain	N2425D-T2R-PK1-G150U	PIFA	I-PEX	1.9	3.5	0.53	0.74	1.38	2.77	150
8	-	-	Airgain	N2425D-T2R-PK1-G30U	PIFA	I-PEX	1.9	3.5	0.11	0.15	1.80	3.35	30
9	-	-	Airgain	N2425D-T2R-PK1-G500U	PIFA	I-PEX	1.9	3.5	1.75	2.45	0.15	1.05	500
10	-	-	LITE	120300058800J (503021-0123-0BC) Dual Band Fixed Rod Antenna	Dipole	I-PEX	Fixed Dipole antenna with 450mm cable				2.55	2.35	450
11	-	-	LITE	120300055601J (501301-0019-1BC) +120700034000J (510411-5210-24C) (300mm Gray Cable)	Dipole	I-PEX	Dipole antenna with 300mm cable				2.72	2.97	300
12	-	-	LITE	120300055600J (501301-0019-1BC) +120700034000J (510411-5210-24C) (300mm Gray Cable)	Dipole	I-PEX	Dipole antenna with 300mm cable				2.72	2.97	300
13	-	-	LITE	120300055601J (501301-0019-1BC) +120700042100J (510411-5300-23C) (500mm Gray Cable)	Dipole	I-PEX	Dipole antenna with 500mm cable				1.85	2.09	500
14	-	-	LITE	120300055600J (501301-0019-1BC) +120700042100J (510411-5300-23C) (500mm Gray Cable)	Dipole	I-PEX	Dipole antenna with 500mm cable				1.85	2.09	500
15	-	1/2	LITE	503021-0003-0BC (AIOS5 only) Dual Band Fixed Rod Antenna	Dipole	I-PEX	Fixed Dipole antenna with 200mm cable				2.52	3.04	200
16	-	-	LITE	503021-0013-0BC Dual Band Fixed Rod Antenna	Dipole	I-PEX	Fixed Dipole antenna with 500mm cable				1.74	1.68	500
17	-	-	LITE	120300055601J (501301-0019-1BC) +510411-5310-23C (200mm Gray Cable)	Dipole	I-PEX	Dipole antenna with 200mm cable				2.64	2.86	200
18	-	-	LITE	503021-0113-0BC (AIOS4 only) Dual Band Fixed Rod Antenna	Dipole	I-PEX	Fixed Dipole antenna with 300mm cable				2.35	2.44	300
19	-	-	Airgain	N2420DG3-T2L-PK1-G200U	Dipole	I-PEX	3.1	2.8	0.62	0.98	2.48	1.82	200
20	-	-	Airgain	N2420DG3-T2L-PK1-G520U	Dipole	I-PEX	3.1	2.8	1.61	2.55	1.49	0.25	520



Ant.	Port		Brand	Model Name	Type	Connector	Gain(dBi)		Cable Loss (dBi)		Net Gain (dBi)		Cable Length (mm)
	WLAN 2.4GHz /BT	WLAN 5GHz					WLAN 2.4GHz /BT	WLAN 5GHz	WLAN 2.4GHz /BT	WLAN 5GHz	WLAN 2.4GHz /BT	WLAN 5GHz	
21	1/2	-	KWANG HYUN AIRTECH	KH-WFDI-AN001	PIFA	I-PEX	4	2.8	0.6	1.2	3.4	1.6	160
22	-	-	KWANG HYUN AIRTECH	KH-WFDI-AN002	PIFA	I-PEX	4	2.8	0.7	1.3	3.3	1.5	210
23	-	-	KWANG HYUN AIRTECH	KH-WFDI-AN004	PIFA	I-PEX	3.6	2.1	1.5	2.7	2.1	-0.6	470
24	-	-	KWANG HYUN AIRTECH	KH-WFDI-AN005	PIFA	I-PEX	3.5	2.1	1.2	1.9	2.3	0.2	400
25	-	-	KWANG HYUN AIRTECH	KH-WFDI-AN006	PIFA	I-PEX	3.5	2.1	2.3	4	1.2	-1.9	810
26	-	-	KWANG HYUN AIRTECH	KH-WFDI-AN007	PIFA	I-PEX	2.6	2.1	1.2	1.9	1.4	0.2	384
27	-	-	KWANG HYUN AIRTECH	KH-WFDI-AN008	PIFA	I-PEX	3.5	2.1	1.2	1.9	2.3	0.2	400

Note1: Directional gain information

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

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 ;

$$2.4G \ G1 = 3.40 \text{ dBi}; \ G2 = 3.40 \text{ dBi}; \ DG = 6.41 \text{ dBi}$$

$$5G \ G1 = 3.35 \text{ dBi}; \ G2 = 3.35 \text{ dBi}; \ DG = 6.36 \text{ dBi}$$

Note2: The above information was declared by manufacturer.

Note3 : The EUT has two type antennas.

Dipole Antenna collocate with 16 antennas selling.

PIFA Antenna collocate with 11 antennas selling.

For AC Power-line Conducted Emissions/RF Conducted Tests:

The highest gain: "Ant.21" for WLAN 2.4GHz/BT & "Ant.6" for WLAN 5GHz were selected to perform the test.



For RF Radiated:

The highest gain of Dipole: "Ant.1" for WLAN 2.4GHz/Bluetooth & "Ant.15" for WLAN 5GHz were selected to perform the test.

The highest gain of PIFA: "Ant.21" for WLAN 2.4GHz/Bluetooth & "Ant.6" for WLAN 5GHz were selected to perform the test.

<WLAN 2.4GHz function>

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

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

Port 1, Port 2 could transmit/receive simultaneously.

<WLAN 5GHz function>

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

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

Port 1, Port 2 could transmit/receive simultaneously.

<Bluetooth function> (1TX/1RX):

Port 1 can be used as transmitting/receiving antenna.

Port 1 could transmit/receive simultaneously.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
BT-LE(1Mbps)	0.852	0.7	2.13m	1k
BT-LE(2Mbps)	0.559	2.53	1.073m	1k

Note:

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

1.1.4 EUT Operational Condition

EUT Power Type	From host system			
Function	☒	Point-to-multipoint	☐	Point-to-point
Test Software Version	DOS V6.1.7601			
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	TH03-CB	Owen Hsu	23.5-23.9 / 56-69	Sep. 13, 2022~ Sep. 29, 2022
Radiated Below 1GHz	03CH05-CB	RJ Huang	25.4~26.5 / 62~65	Sep. 20, 2022
Radiated Above 1GHz	03CH01-CB	Ken Yeh	25~26 / 62~63	Sep. 03, 2022~ Sep. 28, 2022
	03CH03-CB		23.4~24.3 / 56~59	
Radiated Co-location	03CH05-CB	Ken Yeh	22.9~24.7 / 55~60	Oct. 11, 2022~ Oct. 13, 2022
AC Conduction	CO01-CB	Dean Chang	22~23 / 52~53	Sep. 08, 2022

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%
Bandwidth Measurement	2.0 %	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
BT-LE(1Mbps)	-
2402MHz	3
2440MHz	3
2478MHz	3
2480MHz	0
BT-LE(2Mbps)	-
2402MHz	3
2440MHz	3
2478MHz	3
2480MHz	-1

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_WLAN 2.4GHz/BT + PIFA Ant. 21
2	EUT_WLAN 5GHz/BT + PIFA Ant. 6
For operating mode 1 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
1	EUT_Bluetooth + PIFA Ant. 21

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
1	EUT in X axis_WLAN 2.4GHz/BT + Dipole Ant. 1
2	EUT in Y axis_WLAN 2.4GHz/BT + Dipole Ant. 1
3	EUT in Z axis_WLAN 2.4GHz/BT + Dipole Ant. 1
Mode 3 has been evaluated to be the worst case among Mode 1~3, thus measurement for Mode 4~6 will follow this same test mode.	
4	EUT in Z axis_WLAN 5GHz/BT + Dipole Ant. 15
5	EUT in Z axis_WLAN 2.4GHz/BT + PIFA Ant. 21
6	EUT in Z axis_WLAN 5GHz/BT + PIFA Ant. 6
For operating mode 6 is the worst case and it was record in this test report.	

Operating Mode > 1GHz	CTX
	The EUT was performed at X axis, Y axis and Z axis position, and the worst case as below:
1	EUT in Y axis_Bluetooth + Dipole Ant. 1
2	EUT in Z axis_Bluetooth + PIFA Ant. 21

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode	Normal Link
	The EUT was performed at X axis, Y axis and Z axis position for Emissions in Restricted Frequency Bands above 1GHz, and the worst case was found as below. So the measurement will follow this same test configuration.
1	EUT in Z axis_WLAN 2.4GHz + Bluetooth
2	EUT in Z axis_WLAN 5GHz + Bluetooth
For operating mode 2 is the worst case and it was record in this test report.	
Refer to Appendix G for Radiated Emission Co-location.	

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
Refer to Sporton Test Report No.: FA282318 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	LAN NB	DELL	E6430	N/A
B	Flash disk3.0	Transcend	JetFlash-700	N/A
C	iPhone	apple	I12	N/A
D	AP Router	TP-link	Ax10	N/A
E	2.4G NB	DELL	E6430	N/A
F	Test fixture	Arcadyan	WN9722NAX22-E7 Test jig	N/A

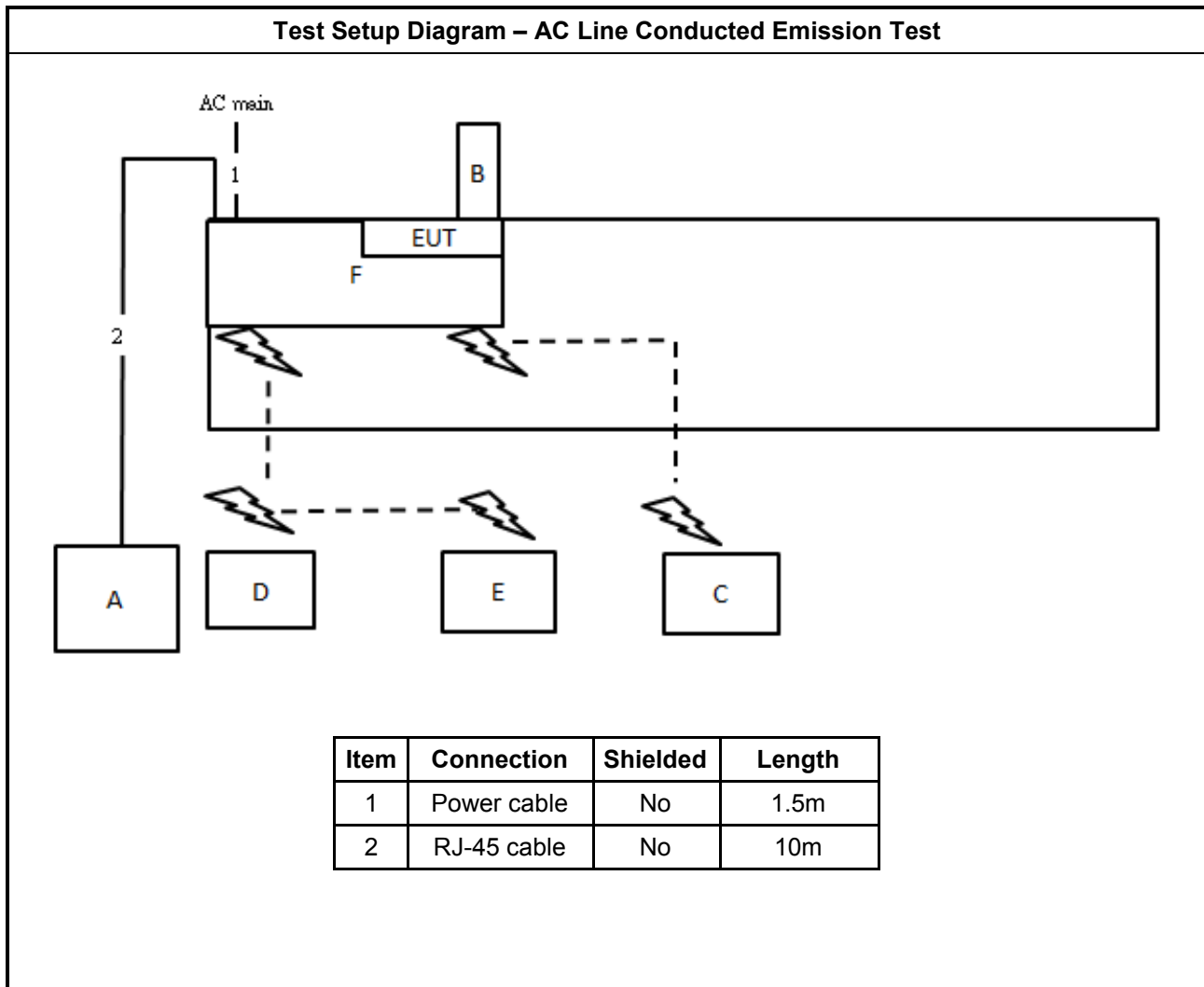
For Radiated (below 1GHz):

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Fixture	Arcadyan	WN9722NAX22-E7 Test jig	N/A
B	Notebook	DELL	E4300	N/A
C	Flash disk3.0	Transcend	JetFlash-700	N/A
D	iPhone 12	Apple	A2403	BCG-E3544A
E	WLAN AP	ASUS	RT-AX88U	MSQ-RTAXHP00

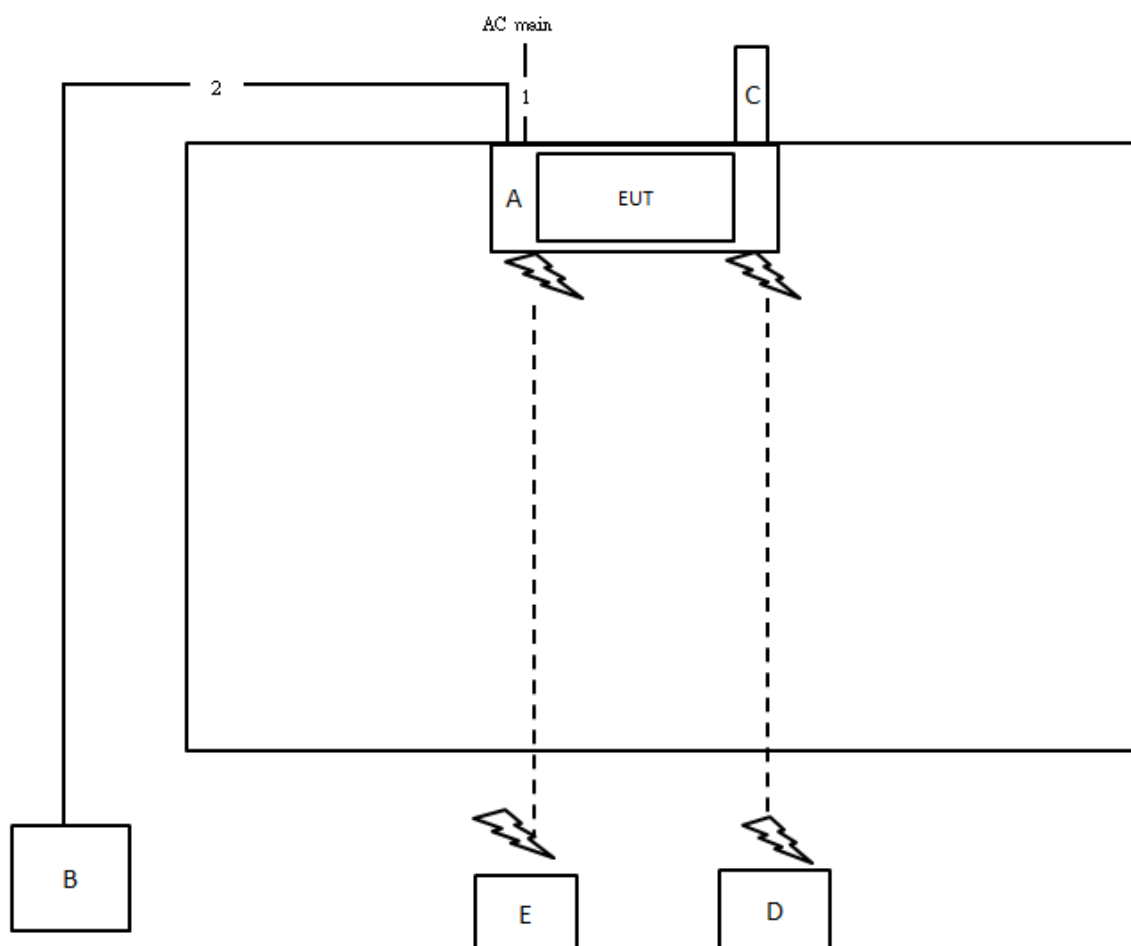
For Radiated (above 1GHz) and RF Conducted:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Fixture	Arcadyan	WN9722NAX22-E7 Test jig	N/A
B	Notebook	DELL	E4300	N/A

2.6 Test Setup Diagram

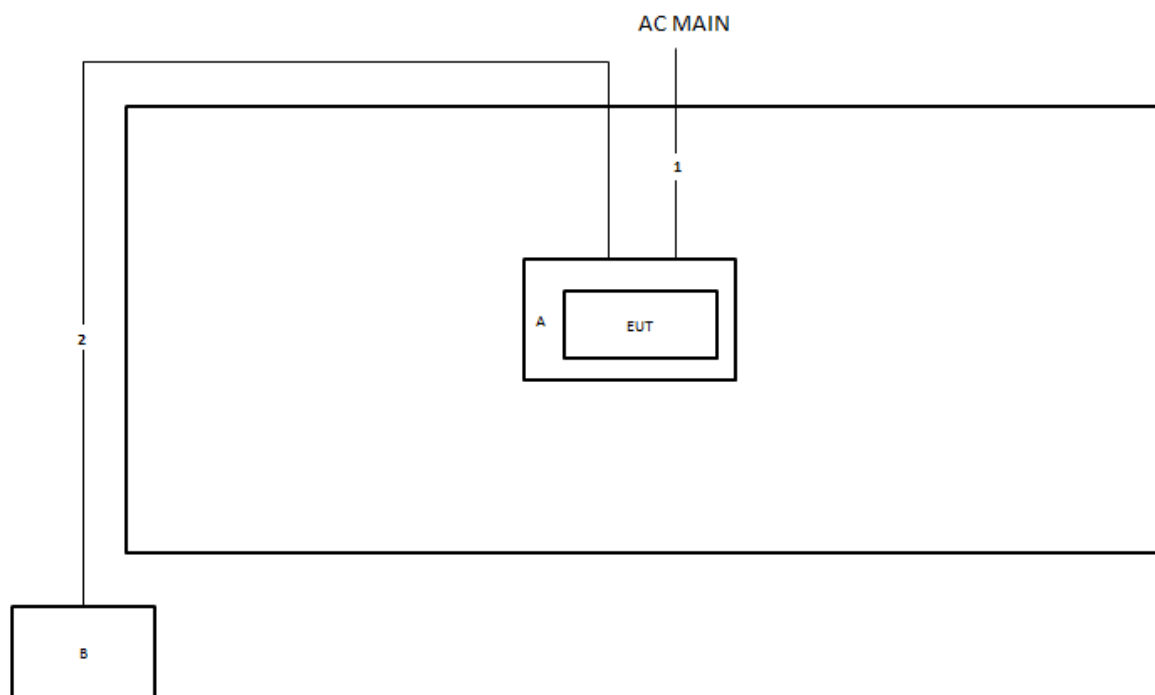


Test Setup Diagram - Radiated Test < 1GHz



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

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.

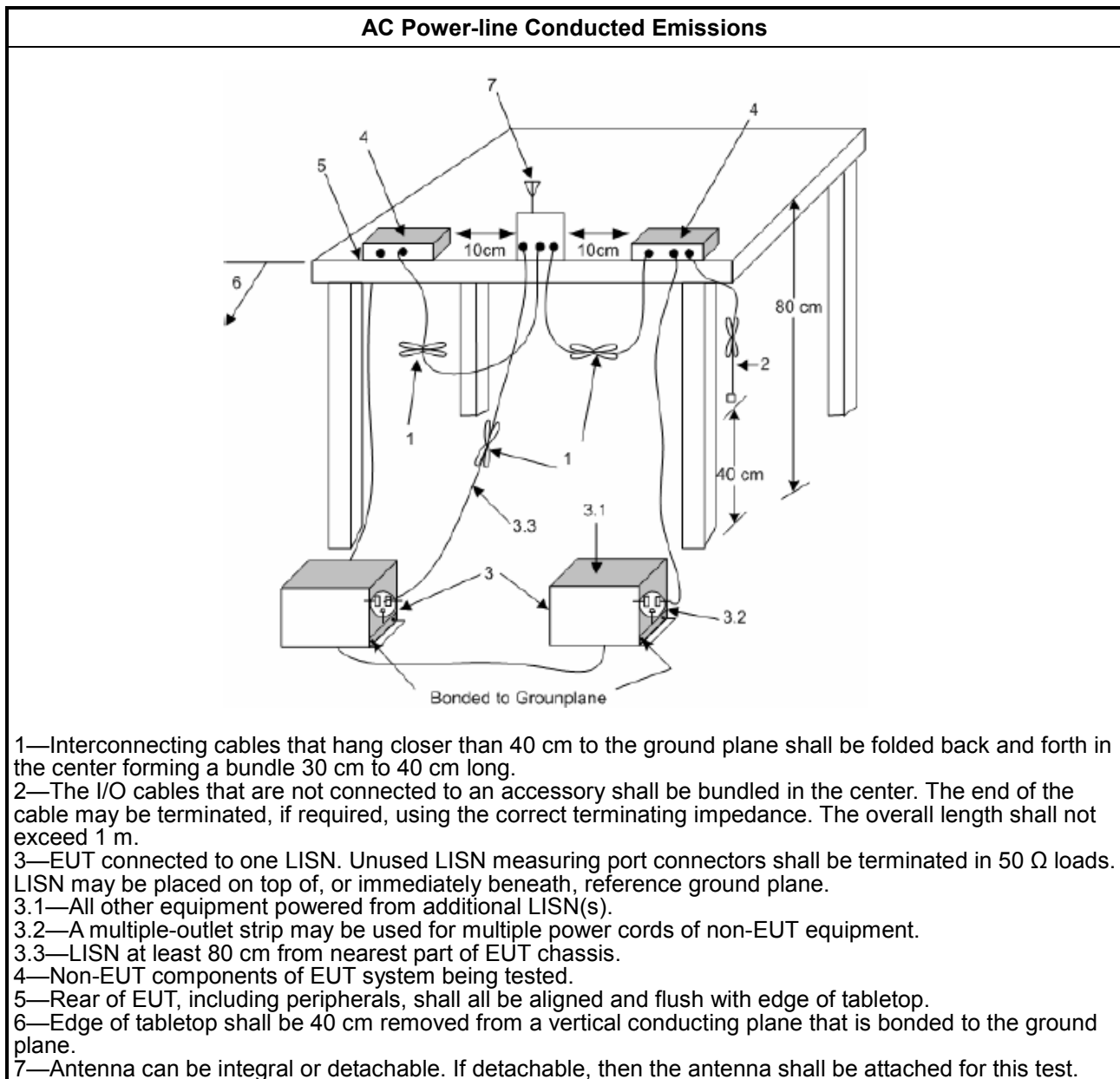
3.1.2 Measuring Instruments

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:

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

3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

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

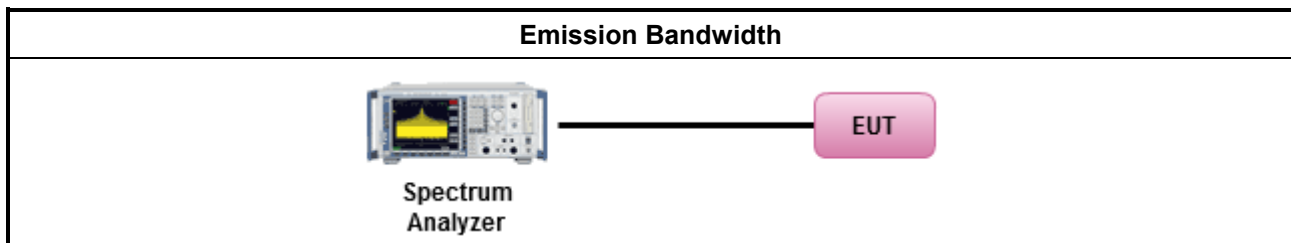
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method
For the emission bandwidth shall be measured using one of the options below:
☒ Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.1 Option 1 for 6 dB bandwidth measurement.
☐ Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.2 Option 2 for 6 dB bandwidth measurement.
☐ Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
	▪ If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)
	▪ Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm
	▪ Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	▪ Smart antenna system (SAS):
	- Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	- Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	- Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dB dBm
P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

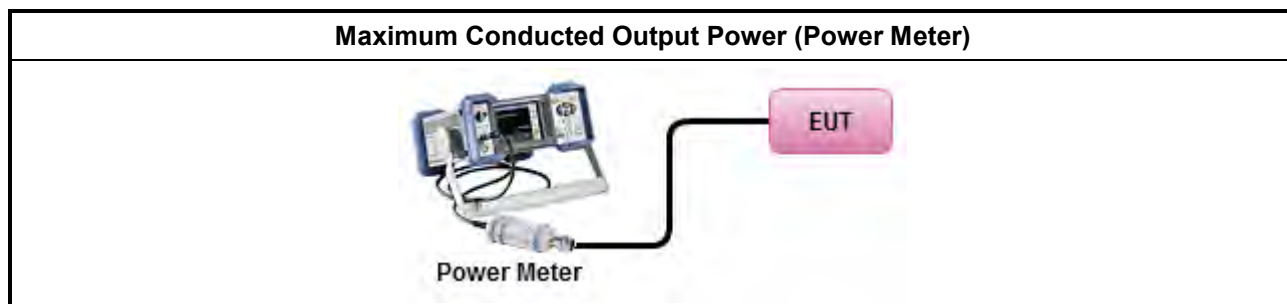
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
Maximum Peak Conducted Output Power	
☐	Refer as FCC KDB 558074, clause 8.3.1.1 & C63.10 clause 11.9.1.1 (RBW ≥ EBW method).
☐	Refer as FCC KDB 558074, clause 8.3.1.3 & C63.10 clause 11.9.1.3 (peak power meter).
Maximum Conducted Output Power	
[duty cycle ≥ 98% or external video / power trigger]	
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.2 Method AVGSA-1.
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.3 Method AVGSA-1A. (alternative)
duty cycle < 98% and average over on/off periods with duty factor	
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.4 Method AVGSA-2.
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.5 Method AVGSA-2A (alternative)
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.6 Method AVGSA-3
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.7 Method AVGSA-3A (alternative)
Measurement using a power meter (PM)	
☐	Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.1 Method AVGPM (using an RF average power meter).
☒	Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.2 Method AVGPM-G (using an gate RF average power meter).
For conducted measurement.	
If the EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.	
If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$	

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C



3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

Power Spectral Density Limit
▪ Power Spectral Density (PSD) ≤ 8 dBm/3kHz

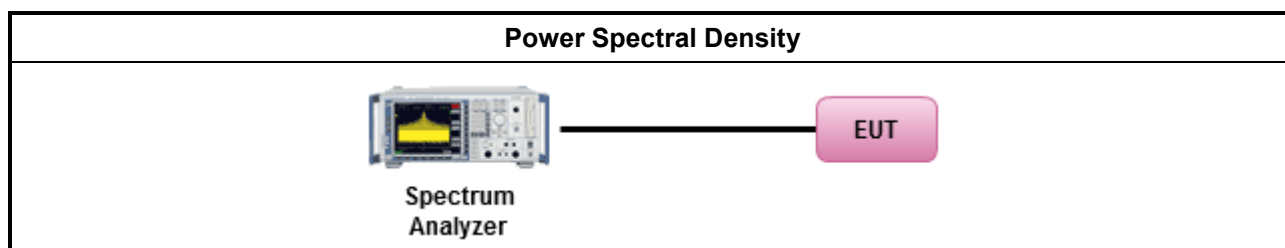
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method	
▪ Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).	
☒	Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10 Method Max. PSD. [duty cycle $\geq 98\%$ 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



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	Limit (dBc)
Peak output power procedure	20
Average output power procedure	30
Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level. Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average PSD level.	

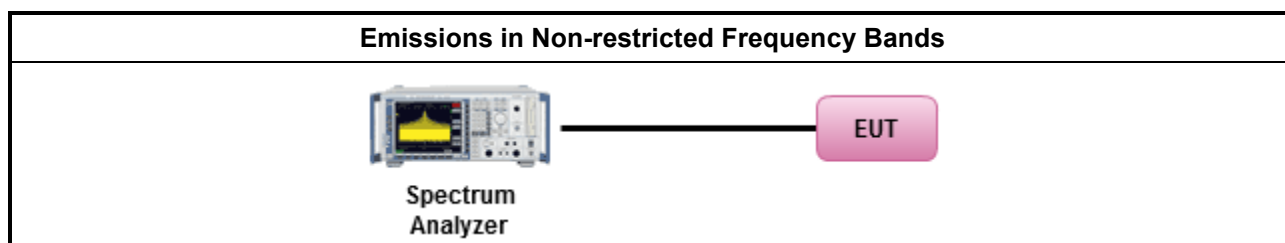
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

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

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

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

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

3.6.2 Measuring Instruments

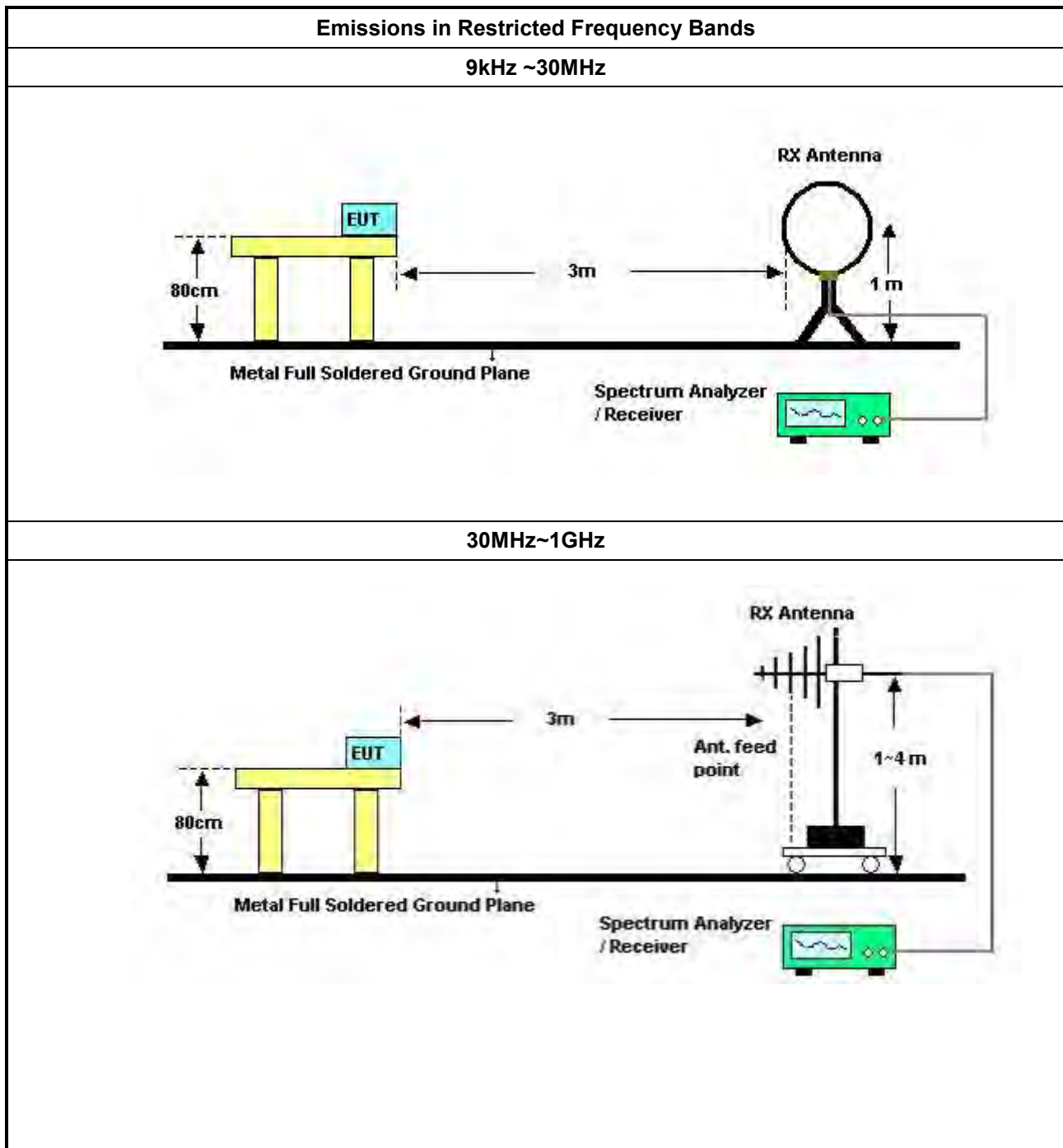
Refer a test equipment and calibration data table in this test report.

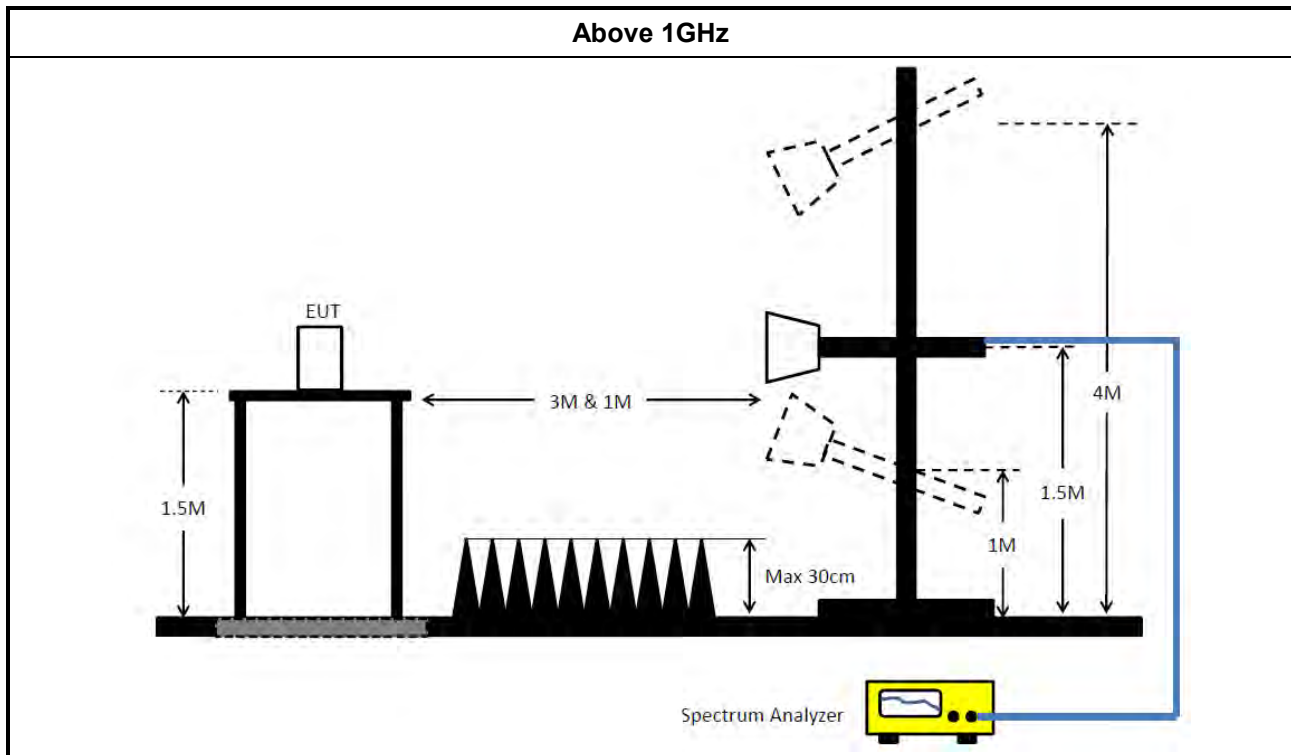


3.6.3 Test Procedures

Test Method	
The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].	
Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
For the transmitter unwanted emissions shall be measured using following options below:	
	Refer as FCC KDB 558074, clause 8.6 for unwanted emissions into restricted bands.
	☐ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.1(trace averaging for duty cycle $\geq 98\%$).
	☐ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.2(trace averaging + duty factor).
	☒ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.3(Reduced VBW $\geq 1/T$).
	☐ Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW $\geq 1/T$, where T is pulse time.
	☐ Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
	☒ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.4 measurement procedure peak limit.
For the transmitter band-edge emissions shall be measured using following options below:	
	Refer as FCC KDB 558074 clause 8.7 & c63.10 clause 11.13.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.
	Refer as FCC KDB 558074, clause 8.7 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements.
	Refer as FCC KDB 558074, clause 8.7 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).
	For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB
	For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.

3.6.4 Test Setup





3.6.5 Measurement Results Calculation

The measured Level is calculated using:

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

3.6.6 Emissions in Restricted Frequency Bands (Below 30MHz)

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

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

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

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F



4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Feb. 22, 2022	Feb. 21, 2023	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Feb. 09, 2022	Feb. 08, 2023	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. 10, 2022	Feb. 09, 2023	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	May 18, 2022	May 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)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH05-CB	1GHz ~18GHz 3m	Nov. 07, 2021	Nov. 06, 2022	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)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120 D-1291	1GHz~18GHz	Jun. 23, 2022	Jun. 22, 2023	Radiation (03CH05-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 22, 2022	Aug. 21, 2023	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	Apr. 26, 2022	Apr. 25, 2023	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC12630SE	980287	1GHz ~ 26.5GHz	Jul. 01, 2022	Jun. 30, 2023	Radiation (03CH05-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 20, 2022	Jul. 19, 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. 13, 2021	Oct. 12, 2022	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-28	1GHz~18GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-04+28	1GHz~18GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH05-CB)
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH05-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 08, 2021	Dec. 07, 2022	Radiation (03CH05-CB)
High Cable	Woken	WCA0929M	40G#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH01-CB	1GHz ~18GHz 3m	May 06, 2022	May 05, 2023	Radiation (03CH01-CB)
Horn Antenna	ETS-LINDGREN	3115	00075790	750MHz ~ 18GHz	Nov. 06, 2021	Nov. 05, 2022	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 22, 2022	Aug. 21, 2023	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02121	1GHz ~ 26.5GHz	May 19, 2022	May 18, 2023	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 20, 2022	Jul. 19, 2023	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	May 06, 2022	May 05, 2023	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16	1 GHz ~ 18 GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16+17	1 GHz ~ 18 GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 08, 2021	Dec. 07, 2022	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH01-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH03-CB	1GHz ~18GHz 3m	May 05, 2022	May 04, 2023	Radiation (03CH03-CB)
Horn Antenna	ETS • Lindgren	3115	6821	750MHz~18GHz	Jan. 21, 2022	Jan. 20, 2023	Radiation (03CH03-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 22, 2022	Aug. 21, 2023	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8449B	3008A02097	1GHz ~ 26.5GHz	Jul. 01, 2022	Jun. 30, 2023	Radiation (03CH03-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 20, 2022	Jul. 19, 2023	Radiation (03CH03-CB)
Spectrum Analyzer	R&S	FSP40	100019	9kHz ~ 40GHz	Jun. 10, 2022	Jun. 09, 2023	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-20+29	1GHz ~ 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-29	1GHz ~ 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH03-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 08, 2021	Dec. 07, 2022	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH03-CB)
Spectrum analyzer	R&S	FSV40	101028	9kHz~40GHz	Jan. 07, 2022	Jan. 06, 2023	Conducted (TH03-CB)
Power Sensor	Anritsu	MA2411B	1531344	300MHz~40GHz	Jul. 31, 2022	Jul. 30, 2023	Conducted (TH03-CB)
Power Meter	Anritsu	ML2495A	1728002	300MHz~40GHz	Jul. 31, 2022	Jul. 30, 2023	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-11	1 GHz ~18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-12	1 GHz ~18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-13	1 GHz ~18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-14	1 GHz ~18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-15	1 GHz ~18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
Switch	SPTCB	SP-SWI	SWI-03	1 GHz ~26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	SWI-03-P1	1 GHz ~26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	SWI-03-P2	1 GHz ~26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	SWI-03-P3	1 GHz ~26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	SWI-03-P4	1 GHz ~26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	SWI-03-P5	1 GHz ~26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH03-CB)

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

NCR means Non-Calibration required.



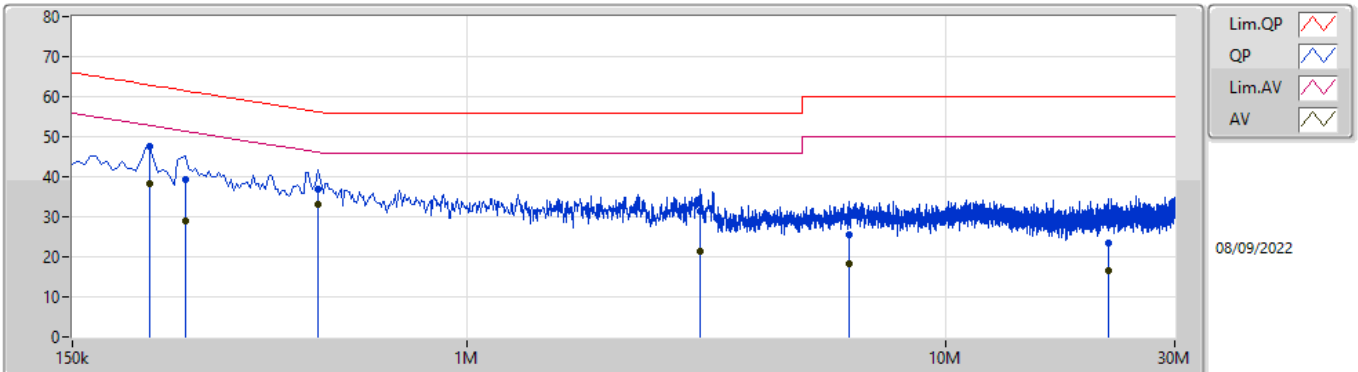
Conducted Emissions at Powerline

Appendix A

Summary

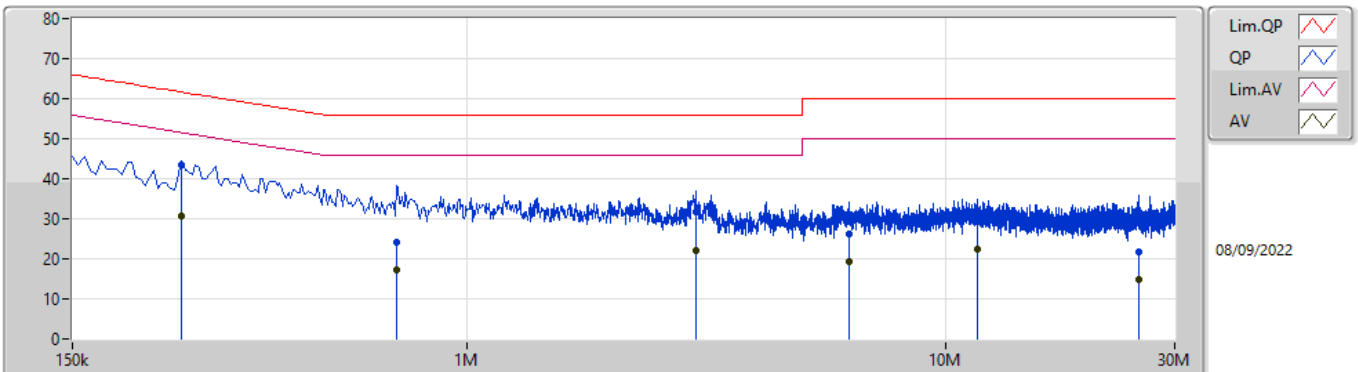
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 2	Pass	AV	487.5k	33.01	46.21	-13.20	Line

Mode 2



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	217.5k	47.71	62.92	-15.21	9.99	Line	-	37.72	0.06	0.04	9.89			
AV	217.5k	38.22	52.92	-14.70	9.99	Line	-	28.23	0.06	0.04	9.89			
QP	258k	39.15	61.49	-22.34	10.00	Line	-	29.15	0.06	0.05	9.89			
AV	258k	28.91	51.49	-22.58	10.00	Line	-	18.91	0.06	0.05	9.89			
QP	487.5k	36.80	56.21	-19.41	10.01	Line	-	26.79	0.06	0.06	9.89			
AV	487.5k	33.01	46.21	-13.20	10.01	Line	"Worst"	23.00	0.06	0.06	9.89			
QP	3.062M	31.31	56.00	-24.69	10.10	Line	-	21.21	0.11	0.10	9.89			
AV	3.062M	21.28	46.00	-24.72	10.10	Line	-	11.18	0.11	0.10	9.89			
QP	6.261M	25.50	60.00	-34.50	10.20	Line	-	15.30	0.17	0.13	9.90			
AV	6.261M	18.43	50.00	-31.57	10.20	Line	-	8.23	0.17	0.13	9.90			
QP	21.818M	23.32	60.00	-36.68	10.52	Line	-	12.80	0.32	0.24	9.96			
AV	21.818M	16.38	50.00	-33.62	10.52	Line	-	5.86	0.32	0.24	9.96			

Mode 2



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	253.5k	43.38	61.64	-18.26	10.01	Neutral	"Worst"	33.37	0.07	0.05	9.89			
AV	253.5k	30.73	51.64	-20.91	10.01	Neutral	-	20.72	0.07	0.05	9.89			
QP	712.5k	24.15	56.00	-31.85	10.02	Neutral	-	14.13	0.08	0.05	9.89			
AV	712.5k	17.36	46.00	-28.64	10.02	Neutral	-	7.34	0.08	0.05	9.89			
QP	3.008M	31.60	56.00	-24.40	10.11	Neutral	-	21.49	0.12	0.10	9.89			
AV	3.008M	22.15	46.00	-23.85	10.11	Neutral	-	12.04	0.12	0.10	9.89			
QP	6.257M	26.08	60.00	-33.92	10.21	Neutral	-	15.87	0.18	0.13	9.90			
AV	6.257M	19.28	50.00	-30.72	10.21	Neutral	-	9.07	0.18	0.13	9.90			
QP	11.607M	29.35	60.00	-30.65	10.33	Neutral	-	19.02	0.25	0.16	9.92			
AV	11.607M	22.58	50.00	-27.42	10.33	Neutral	-	12.25	0.25	0.16	9.92			
QP	25.206M	21.62	60.00	-38.38	10.56	Neutral	-	11.06	0.31	0.28	9.97			
AV	25.206M	14.94	50.00	-35.06	10.56	Neutral	-	4.38	0.31	0.28	9.97			

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)	666.25k	1.051M	1M05F1D	663.75k	1.048M
BT-LE(2Mbps)	1.238M	2.111M	2M11F1D	1.225M	2.084M

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

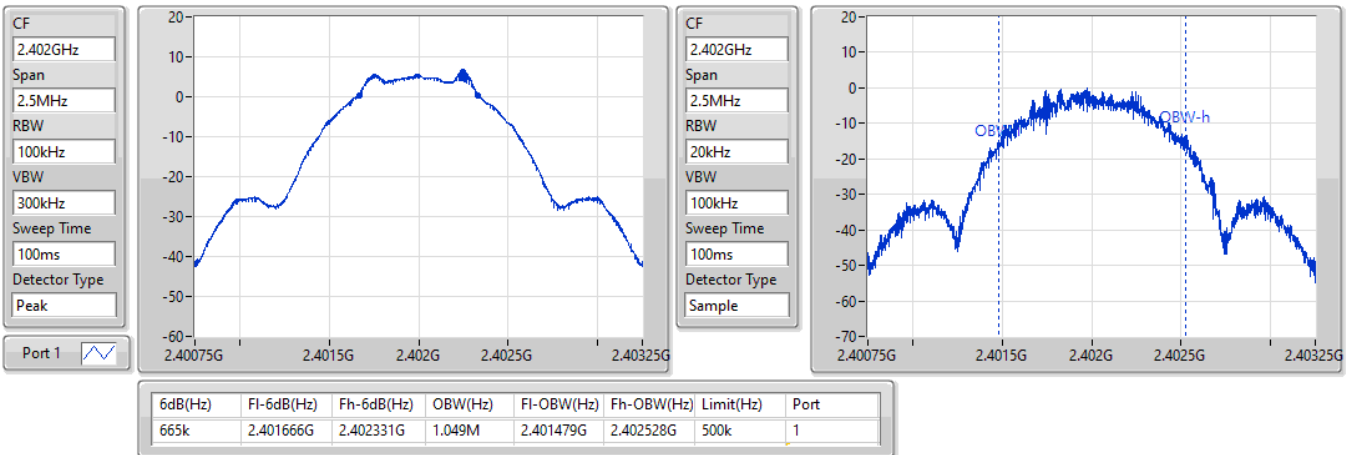
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	500k	665k	1.049M
2440MHz	Pass	500k	663.75k	1.048M
2478MHz	Pass	500k	666.25k	1.051M
2480MHz	Pass	500k	663.75k	1.049M
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	500k	1.225M	2.089M
2440MHz	Pass	500k	1.233M	2.084M
2478MHz	Pass	500k	1.238M	2.099M
2480MHz	Pass	500k	1.235M	2.111M

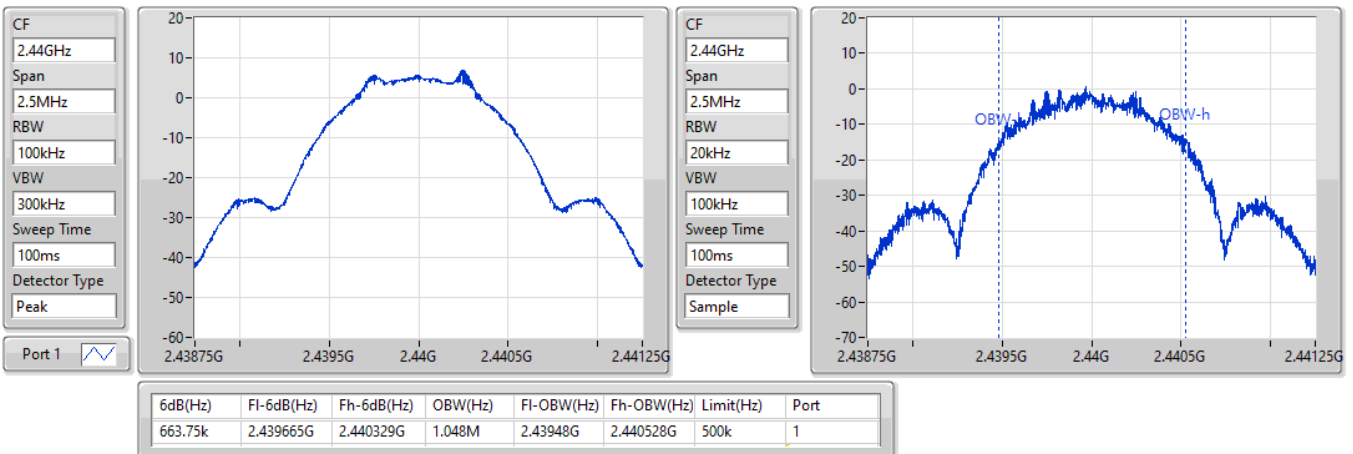
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

BT-LE(1Mbps)
2402MHz
EBW-DTS

14/09/2022

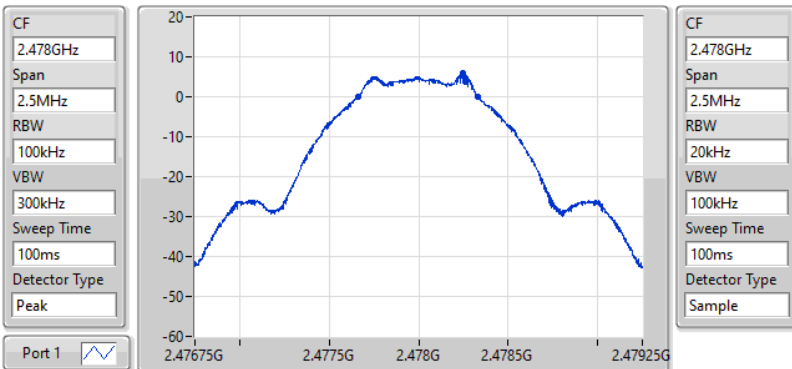

BT-LE(1Mbps)
2440MHz
EBW-DTS

14/09/2022



BT-LE(1Mbps)

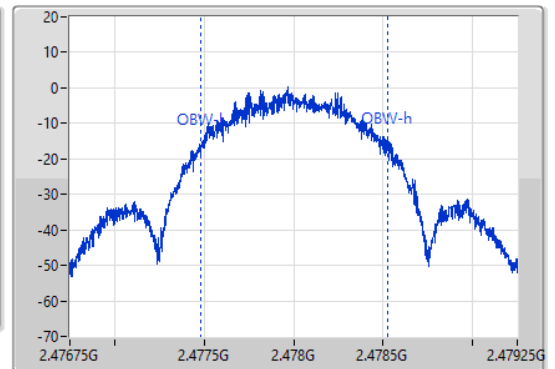
2478MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
666.25k	2.477665G	2.478331G	1.051M	2.477478G	2.478528G	500k	1

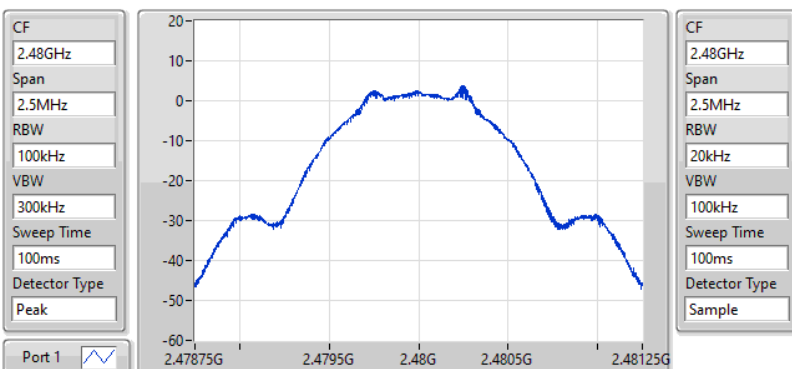
EBW-DTS

14/09/2022



BT-LE(1Mbps)

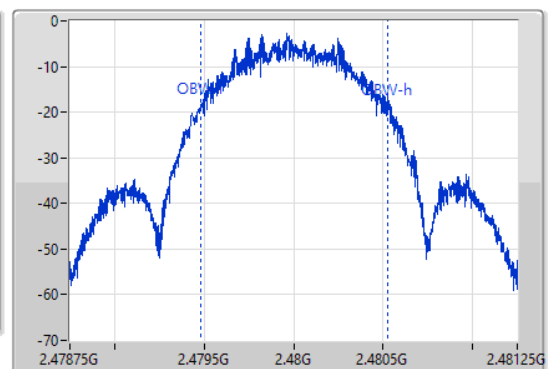
2480MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
663.75k	2.479664G	2.480328G	1.049M	2.479478G	2.480527G	500k	1

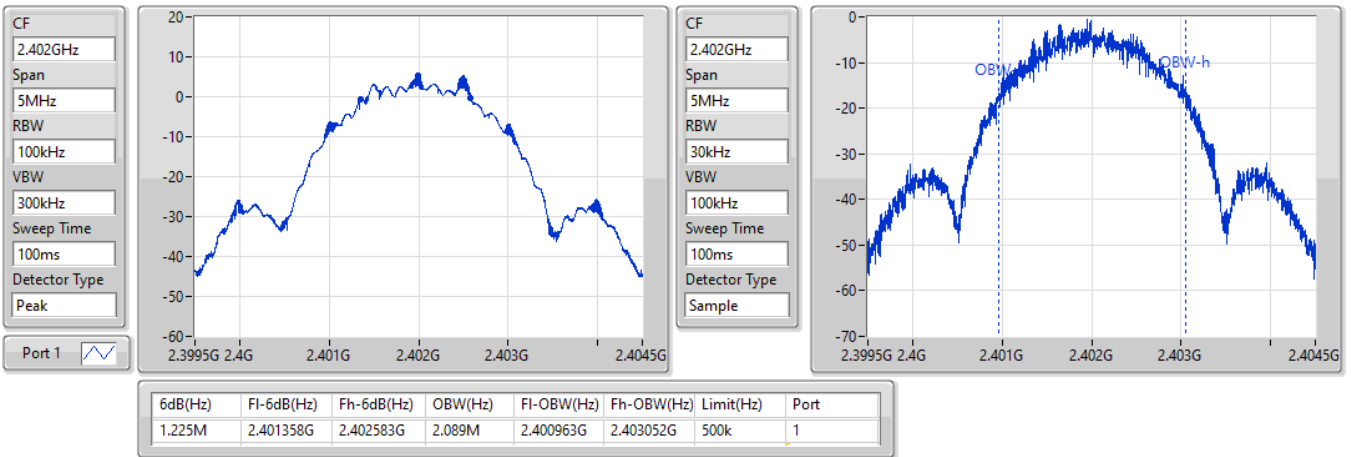
EBW-DTS

13/09/2022

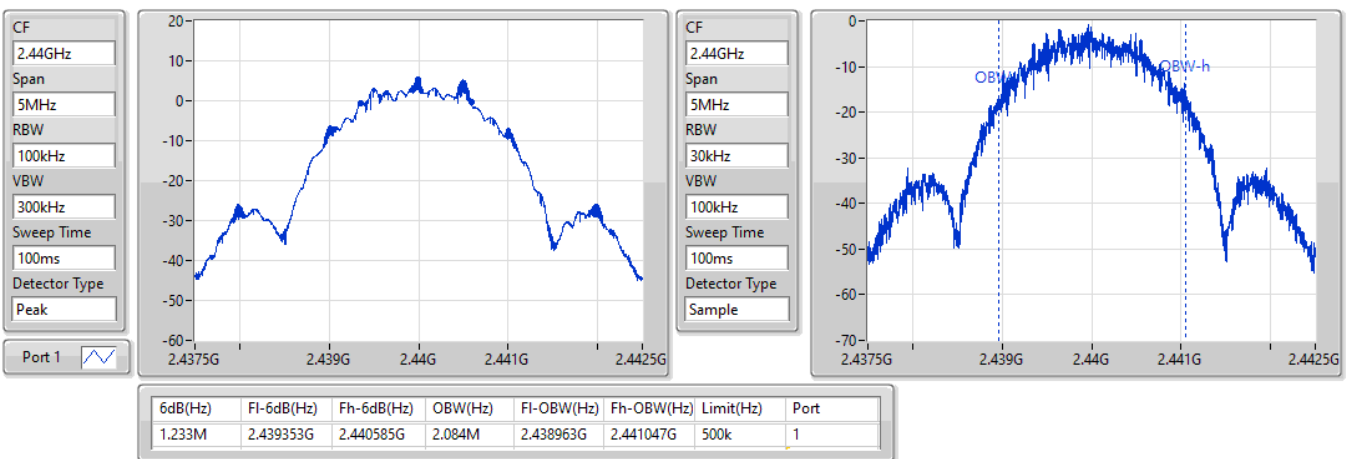


BT-LE(2Mbps)
EBW-DTS
2402MHz

14/09/2022

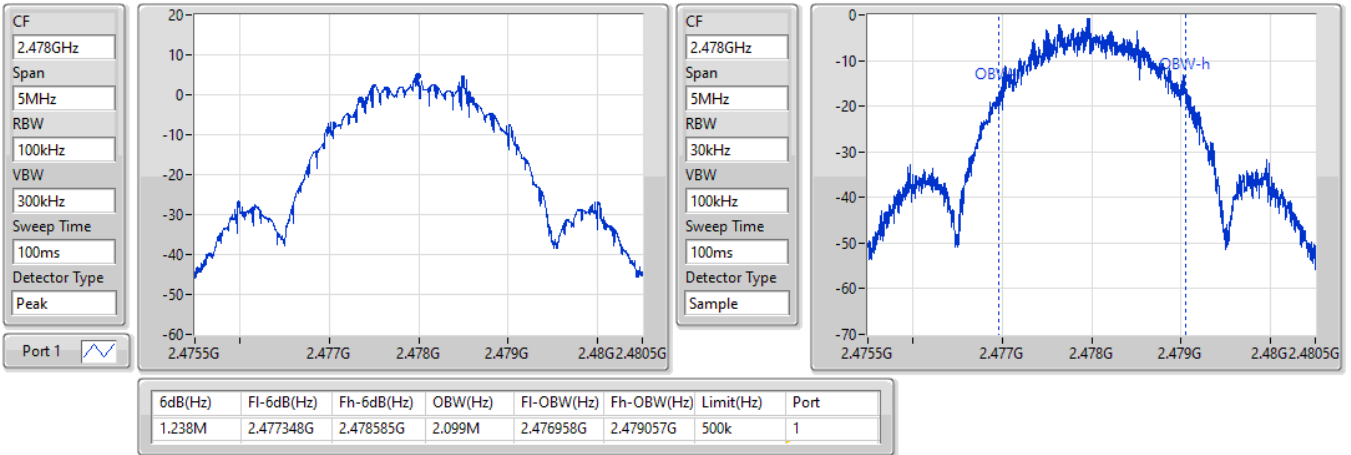

BT-LE(2Mbps)
EBW-DTS
2440MHz

14/09/2022

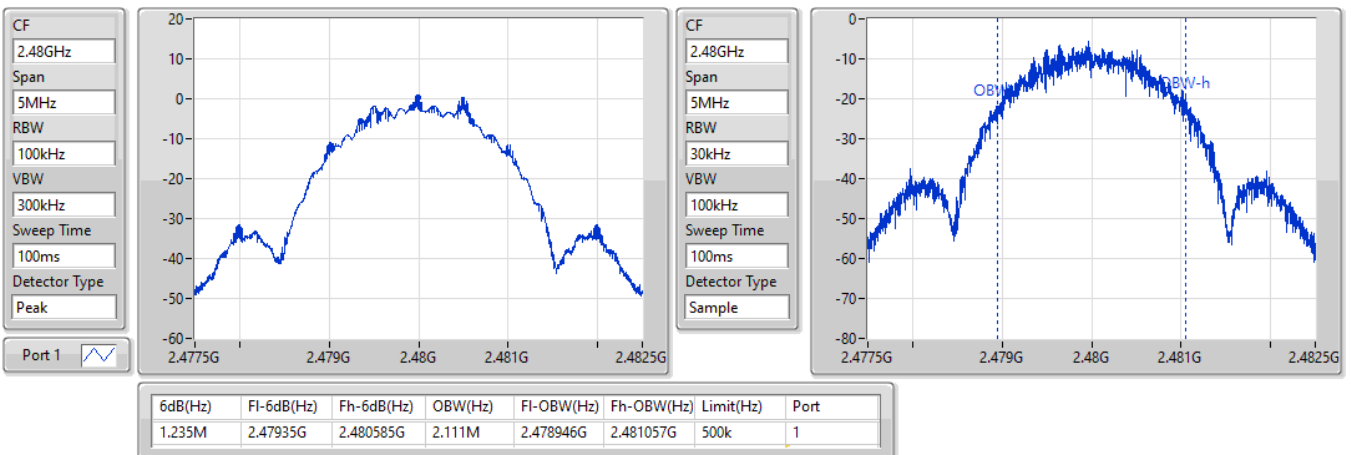


BT-LE(2Mbps)
EBW-DTS
2478MHz

14/09/2022


BT-LE(2Mbps)
EBW-DTS
2480MHz

13/09/2022





Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	6.32	0.00429
BT-LE(2Mbps)	6.25	0.00422

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	3.40	6.32	30.00
2440MHz	Pass	3.40	6.24	30.00
2478MHz	Pass	3.40	5.68	30.00
2480MHz	Pass	3.40	3.45	30.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	3.40	6.25	30.00
2440MHz	Pass	3.40	6.25	30.00
2478MHz	Pass	3.40	5.69	30.00
2480MHz	Pass	3.40	1.54	30.00

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



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
BT-LF(1Mbps)	-11.04
BT-LF(2Mbps)	-12.49

RBW = 3kHz;

Result

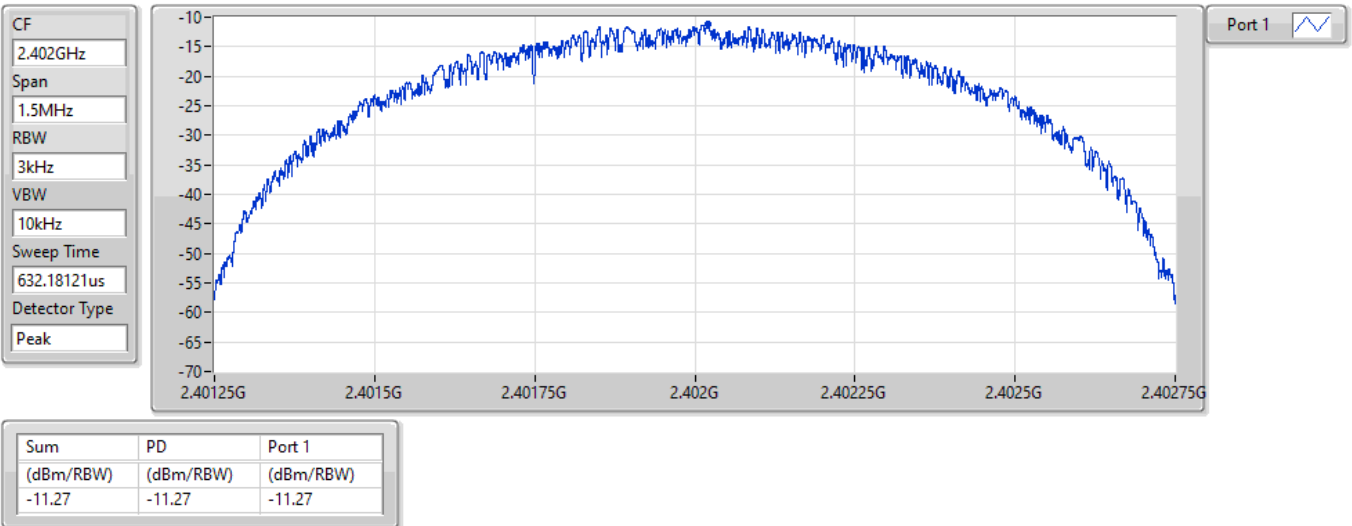
Mode	Result	Gain (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	3.40	-11.27	8.00
2440MHz	Pass	3.40	-11.32	8.00
2478MHz	Pass	3.40	-11.04	8.00
2480MHz	Pass	3.40	-13.56	8.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	3.40	-12.49	8.00
2440MHz	Pass	3.40	-12.82	8.00
2478MHz	Pass	3.40	-13.08	8.00
2480MHz	Pass	3.40	-17.59	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)

2402MHz

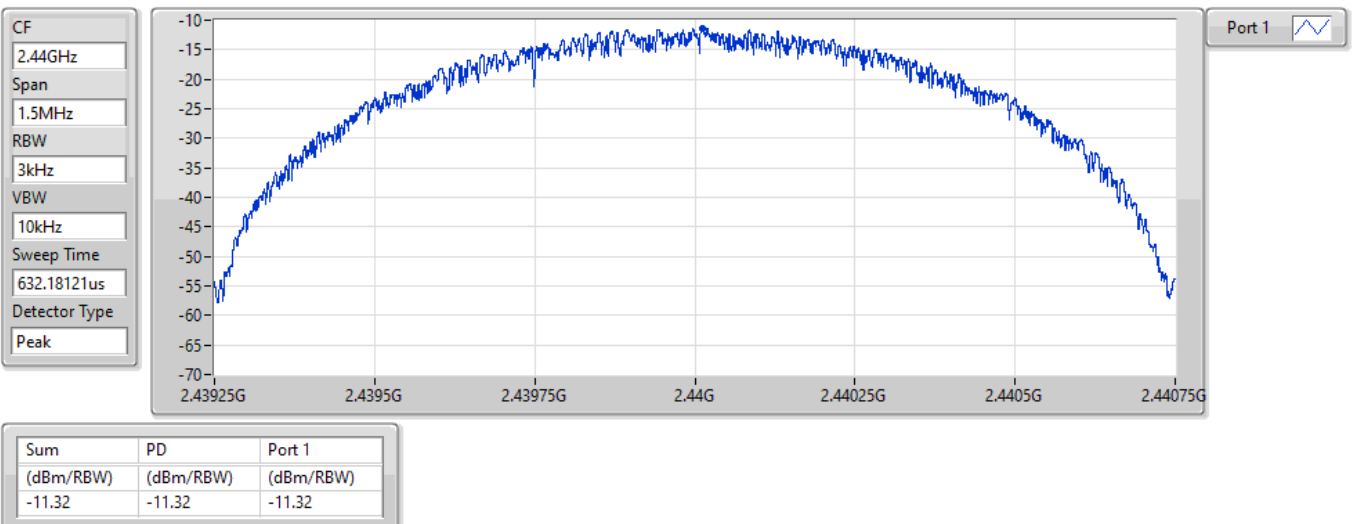
14/09/2022



BT-LE(1Mbps)

2440MHz

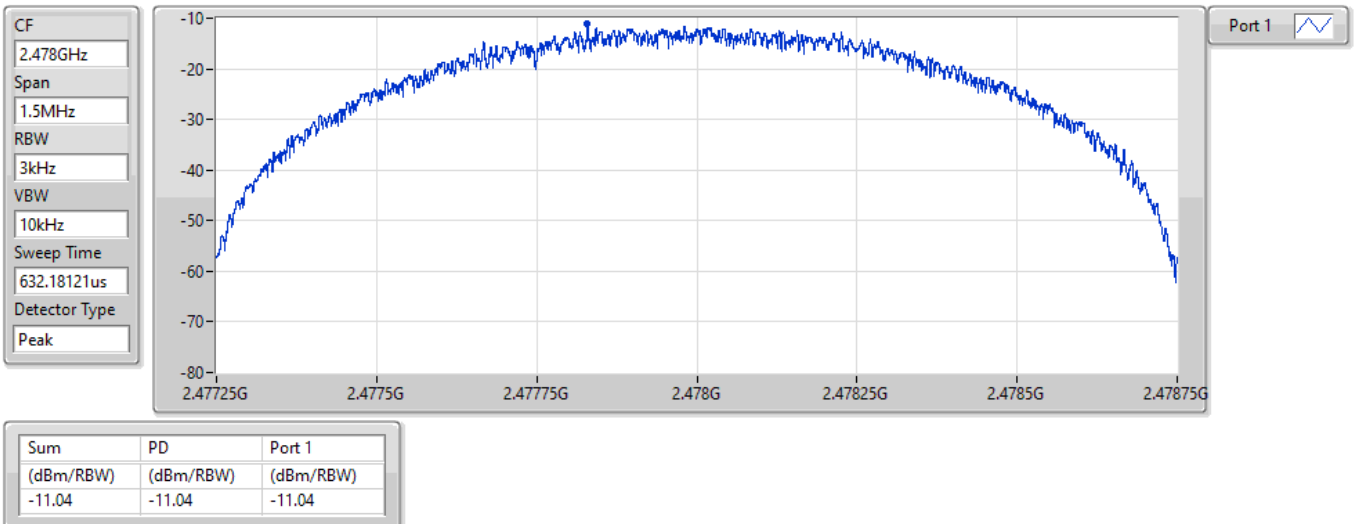
14/09/2022



BT-LE(1Mbps)

2478MHz

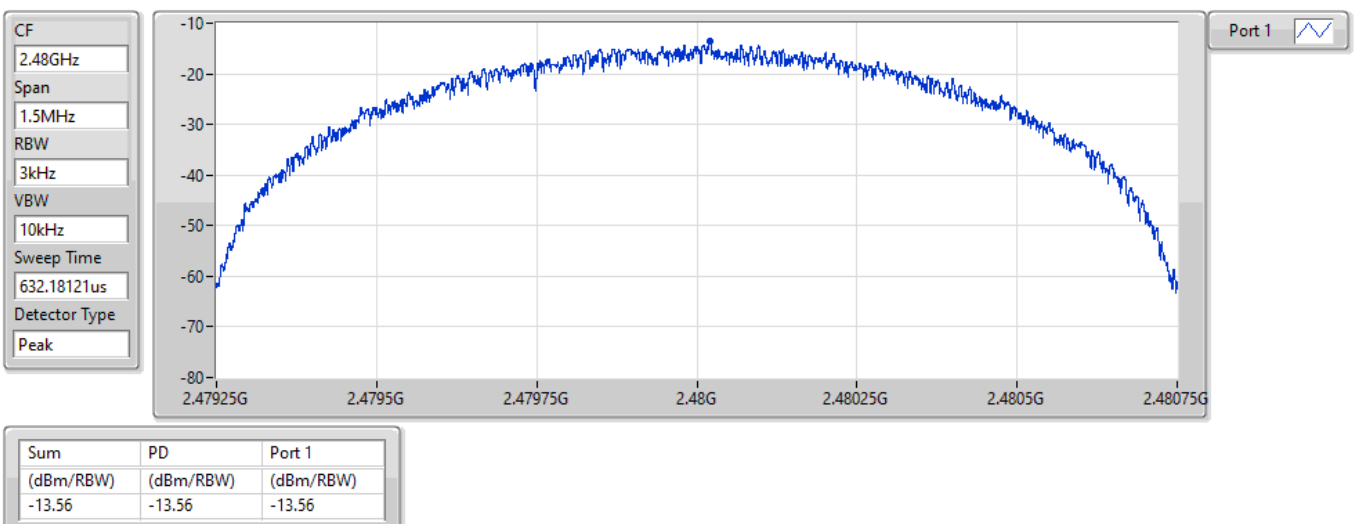
14/09/2022



BT-LE(1Mbps)

2480MHz

13/09/2022

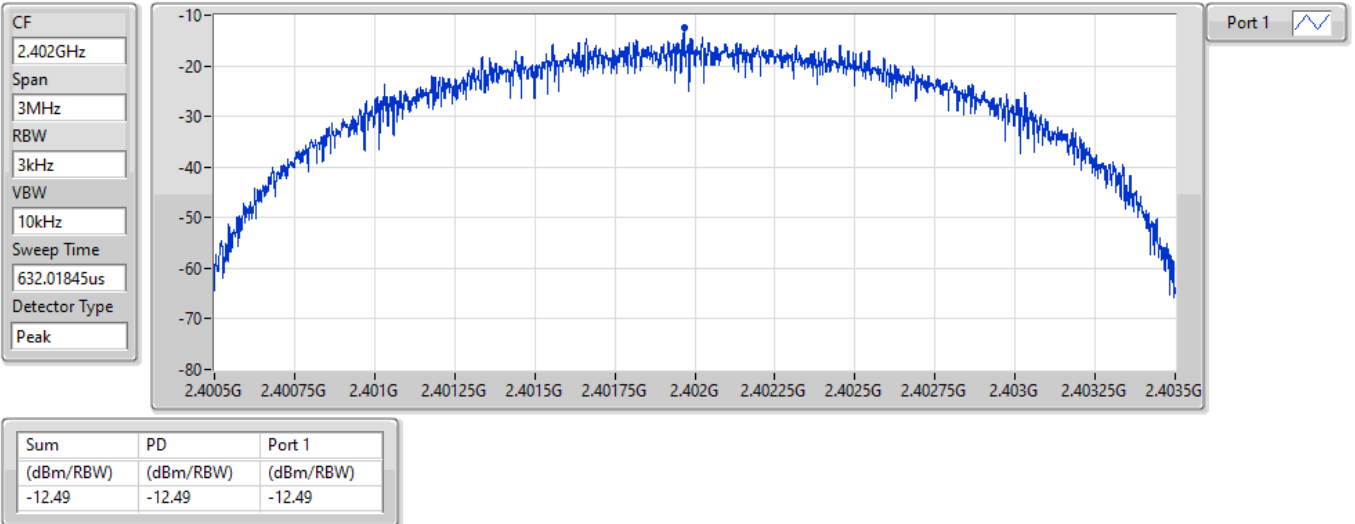


BT-LE(2Mbps)

PSD

2402MHz

14/09/2022

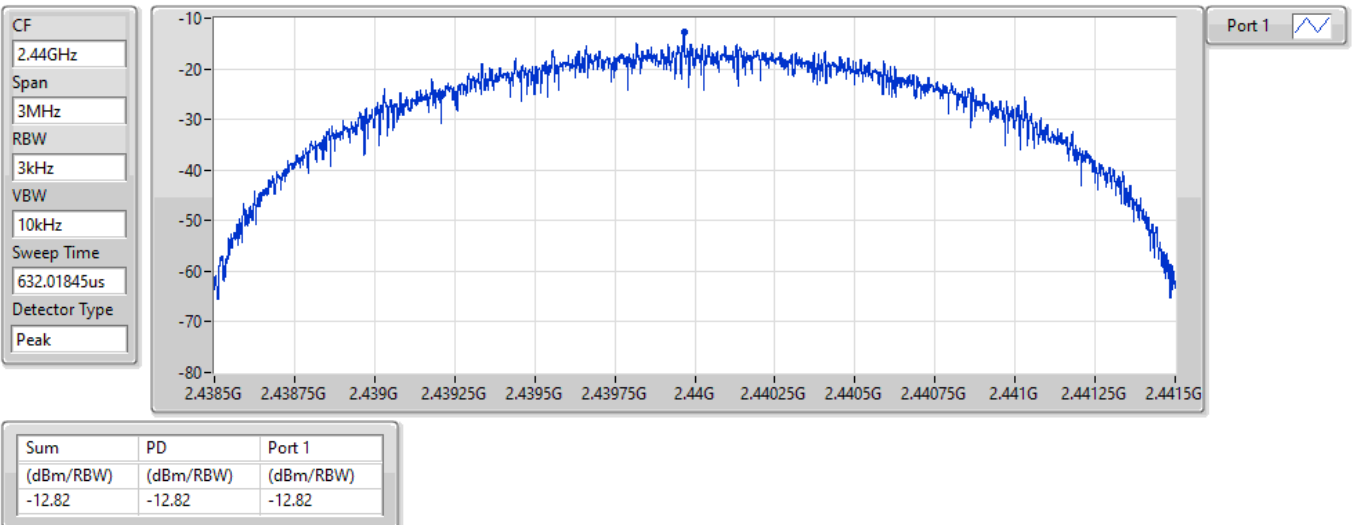


BT-LE(2Mbps)

PSD

2440MHz

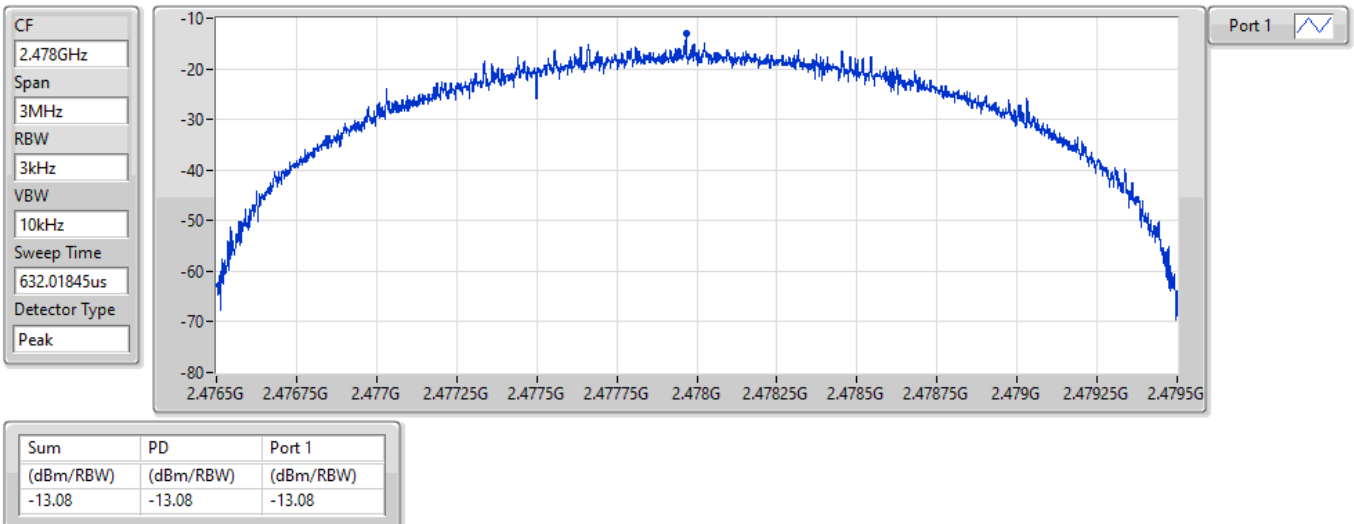
14/09/2022



BT-LE(2Mbps)

2478MHz

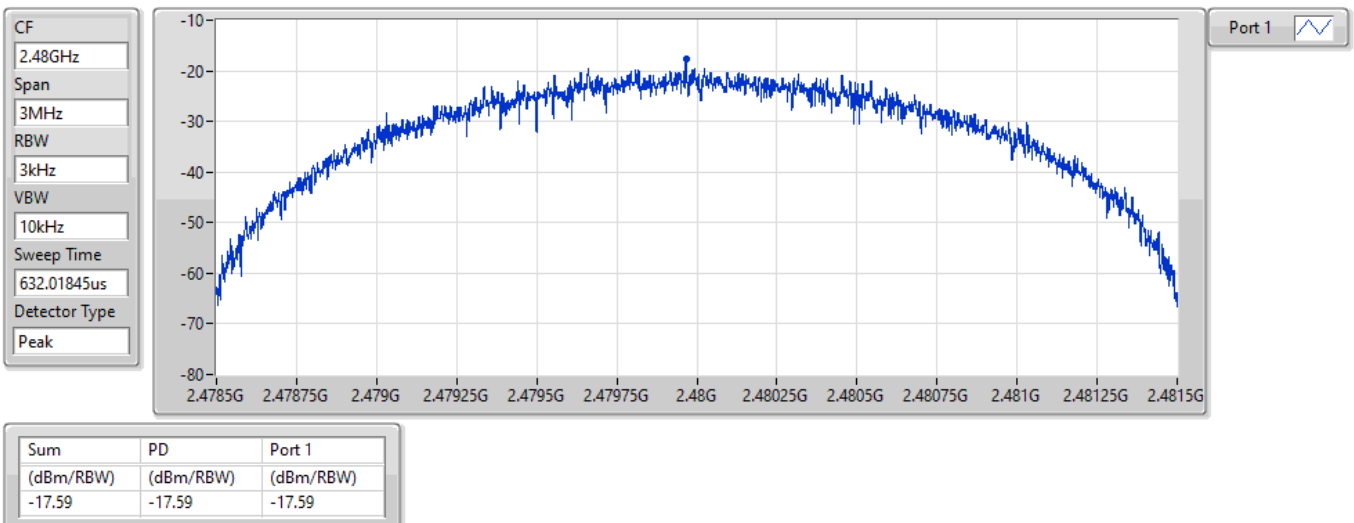
14/09/2022



BT-LE(2Mbps)

2480MHz

13/09/2022





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	2.40221G	6.38	-23.62	661.56M	-50.97	2.39789G	-51.73	2.4835G	-54.46	2.49599G	-50.13	24.47133G	-44.42	1
BT-LE(2Mbps)	Pass	2.44G	5.38	-24.62	898.91M	-51.55	2.39999G	-26.11	2.4G	-29.11	2.49341G	-51.17	16.93219G	-43.67	1

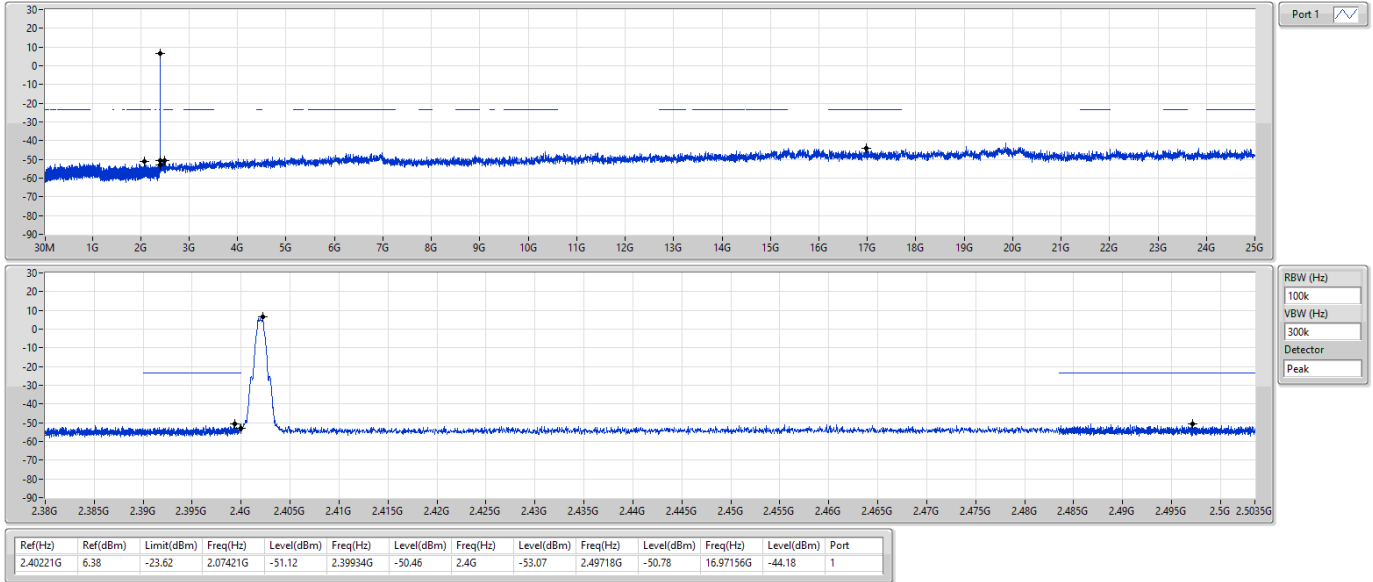
Result

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	2.40221G	6.38	-23.62	2.07421G	-51.12	2.39934G	-50.46	2.4G	-53.07	2.49718G	-50.78	16.97156G	-44.18	1
2440MHz	Pass	2.40221G	6.38	-23.62	893.92M	-50.91	2.39762G	-51.10	2.4835G	-53.91	2.49437G	-51.56	24.8144G	-43.65	1
2478MHz	Pass	2.40221G	6.38	-23.62	661.56M	-50.97	2.39789G	-51.73	2.4835G	-54.46	2.49599G	-50.13	24.47133G	-44.42	1
2480MHz	Pass	2.40221G	6.38	-23.62	554.64M	-51.14	2.39307G	-50.95	2.4835G	-53.91	2.48579G	-50.56	14.60662G	-44.59	1
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.44G	5.38	-24.62	898.91M	-51.55	2.39999G	-26.11	2.4G	-29.11	2.49341G	-51.17	16.93219G	-43.67	1
2440MHz	Pass	2.44G	5.38	-24.62	909.78M	-52.37	2.39774G	-51.70	2.4835G	-52.57	2.4889G	-50.82	15.0453G	-44.12	1
2478MHz	Pass	2.44G	5.38	-24.62	764.67M	-50.93	2.39534G	-51.79	2.4G	-53.77	2.48579G	-51.01	17.68301G	-44.24	1
2480MHz	Pass	2.44G	5.38	-24.62	645.41M	-51.96	2.39841G	-52.01	2.4835G	-53.31	2.48598G	-51.05	16.88158G	-44.29	1

BT-LE(1Mbps)

CSEndB-DTS

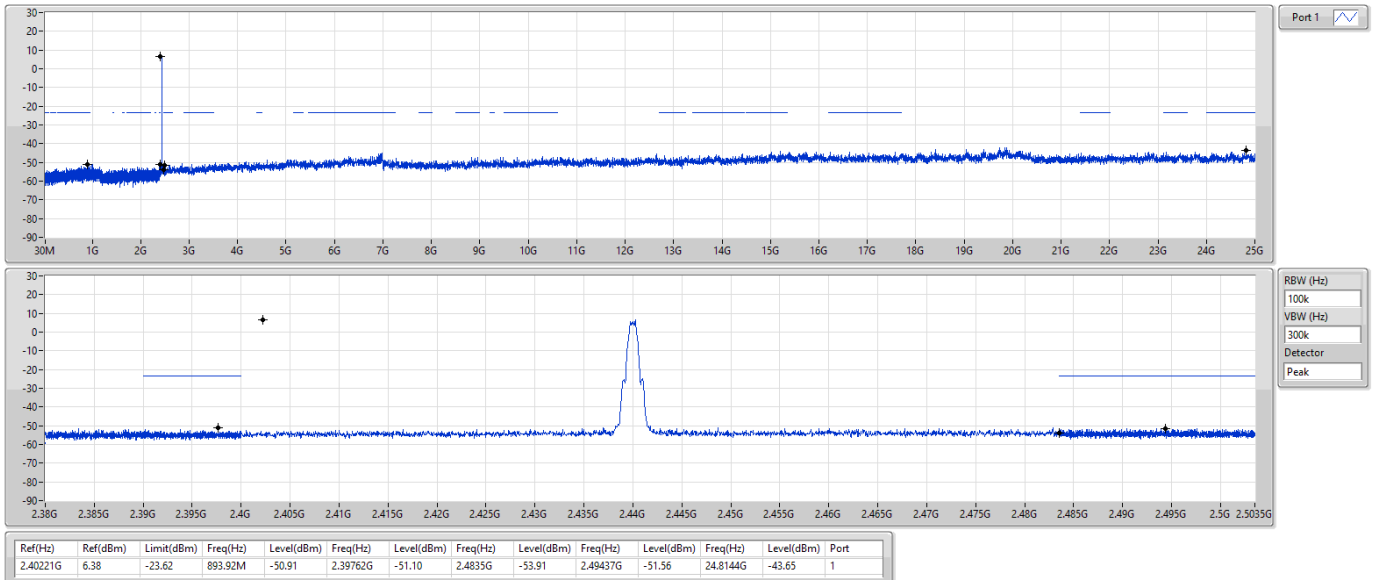
2402MHz



BT-LE(1Mbps)

CSEndB-DTS

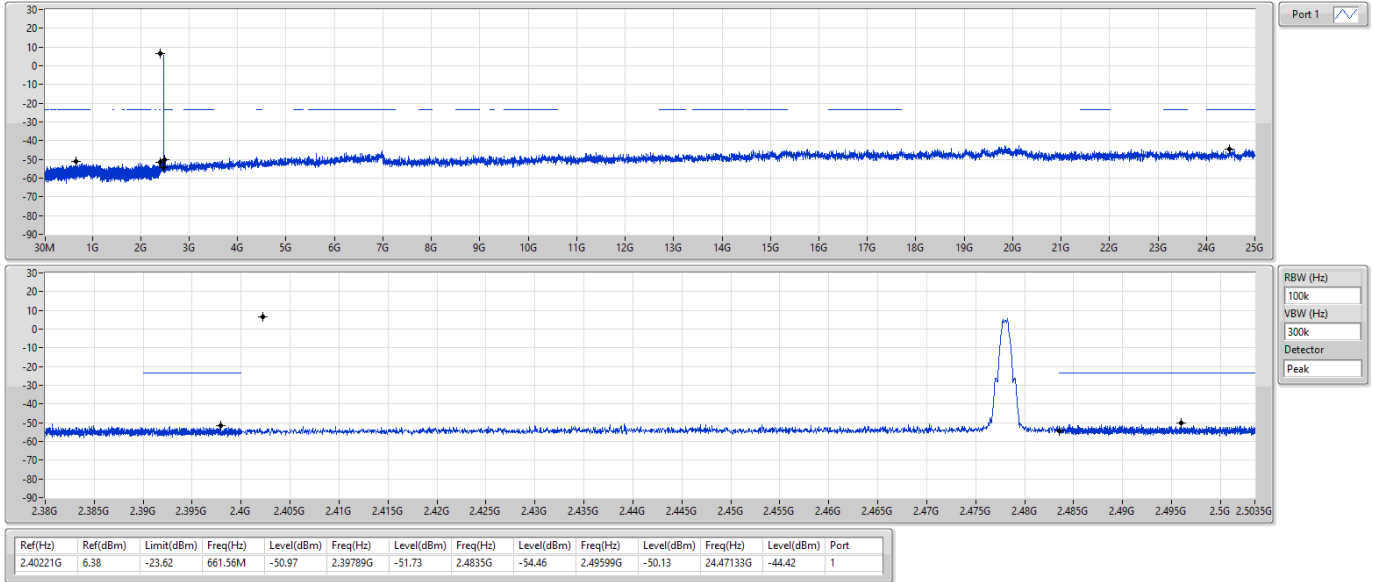
2440MHz



BT-LE(1Mbps)

CSEndB-DTS

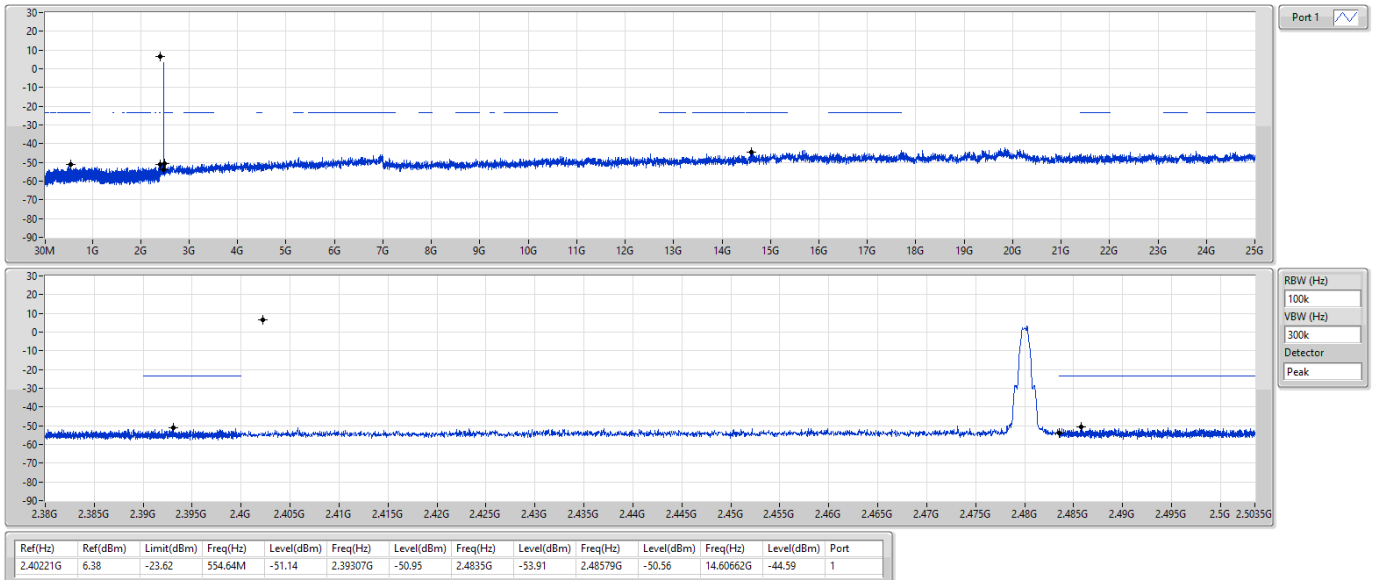
2478MHz



BT-LE(1Mbps)

CSEndB-DTS

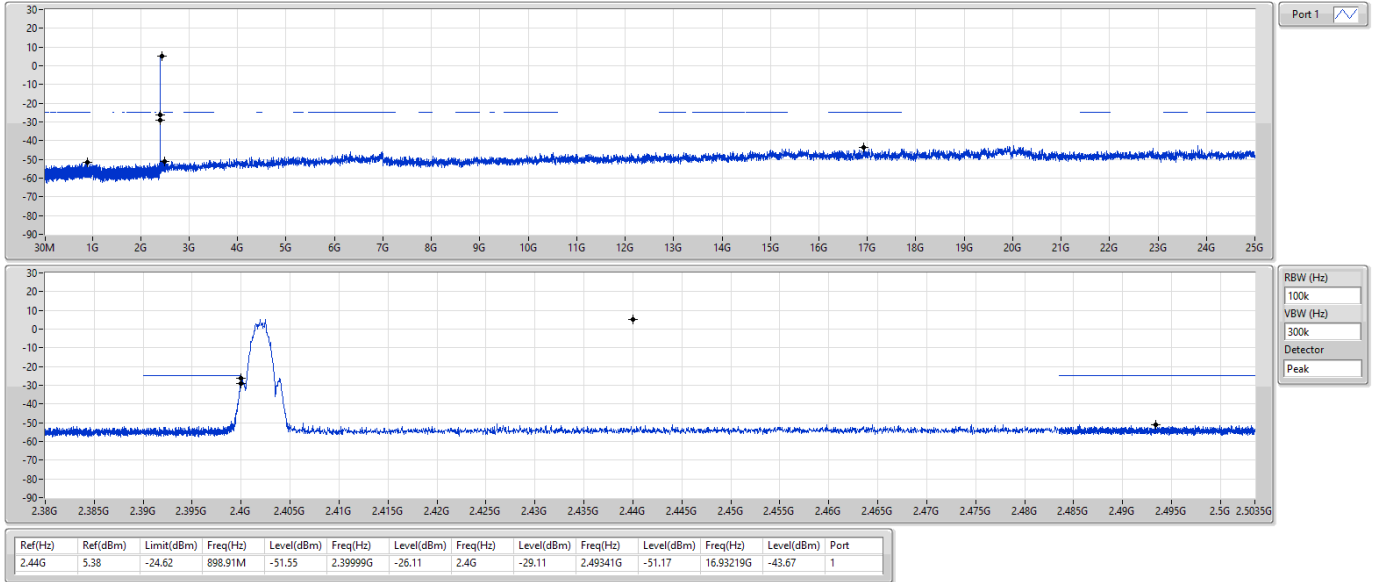
2480MHz



BT-LE(2Mbps)

CSEndB-DTS

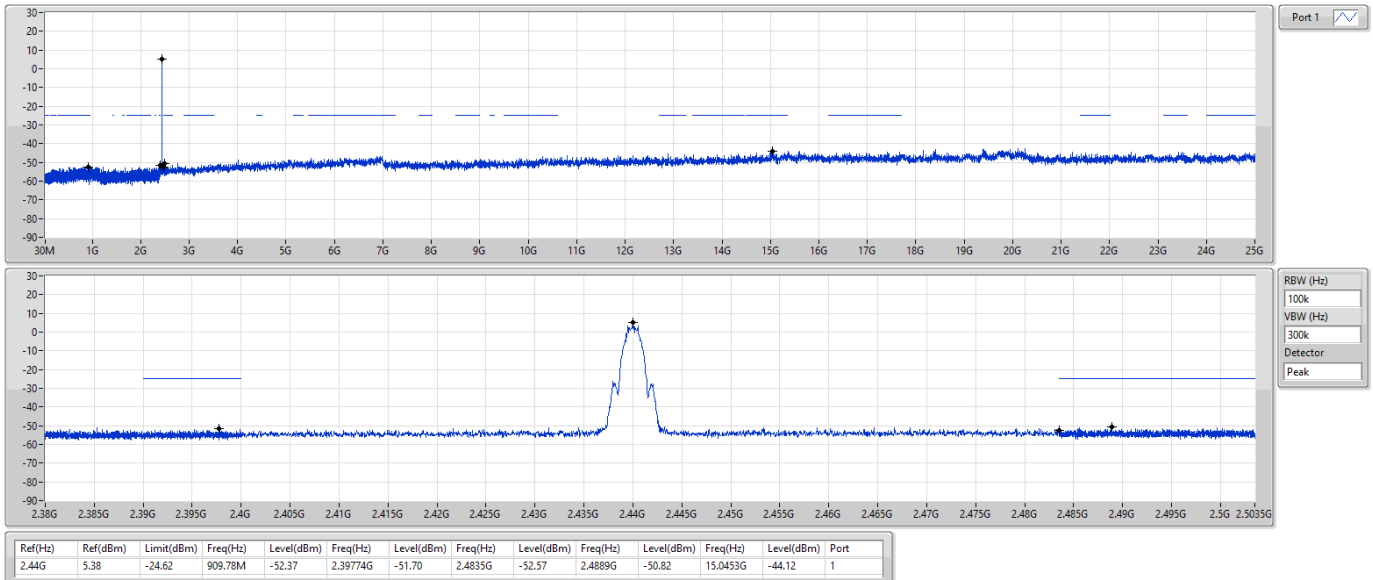
2402MHz



BT-LE(2Mbps)

CSEndB-DTS

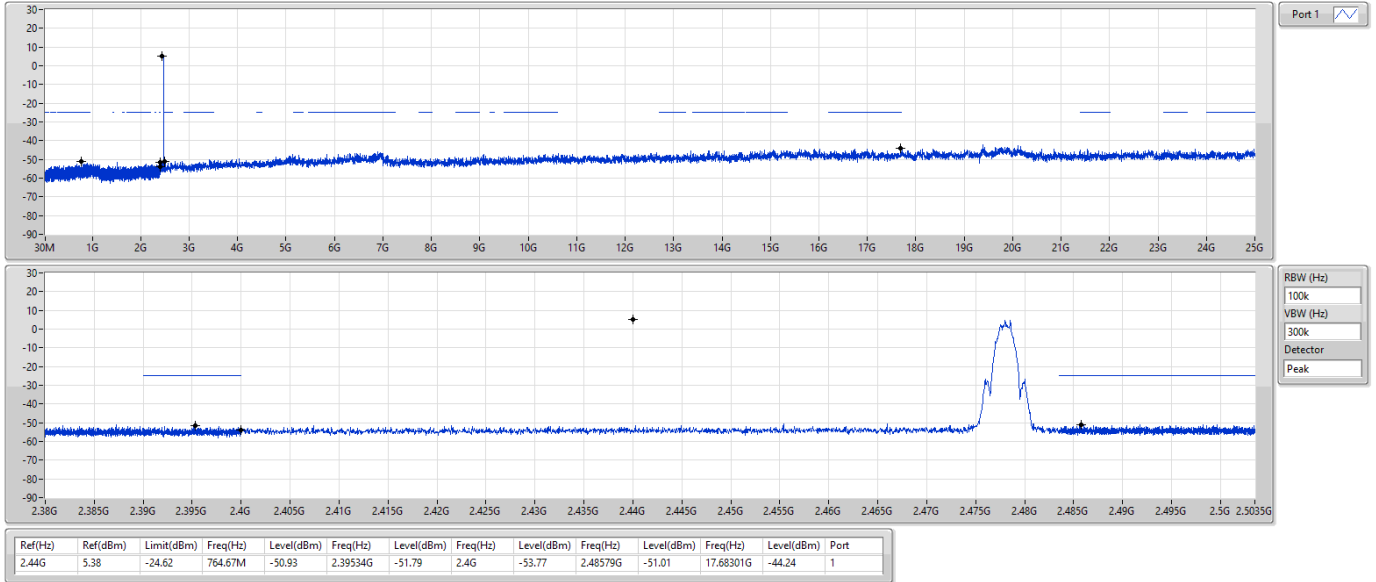
2440MHz



BT-LE(2Mbps)

CSEndB-DTS

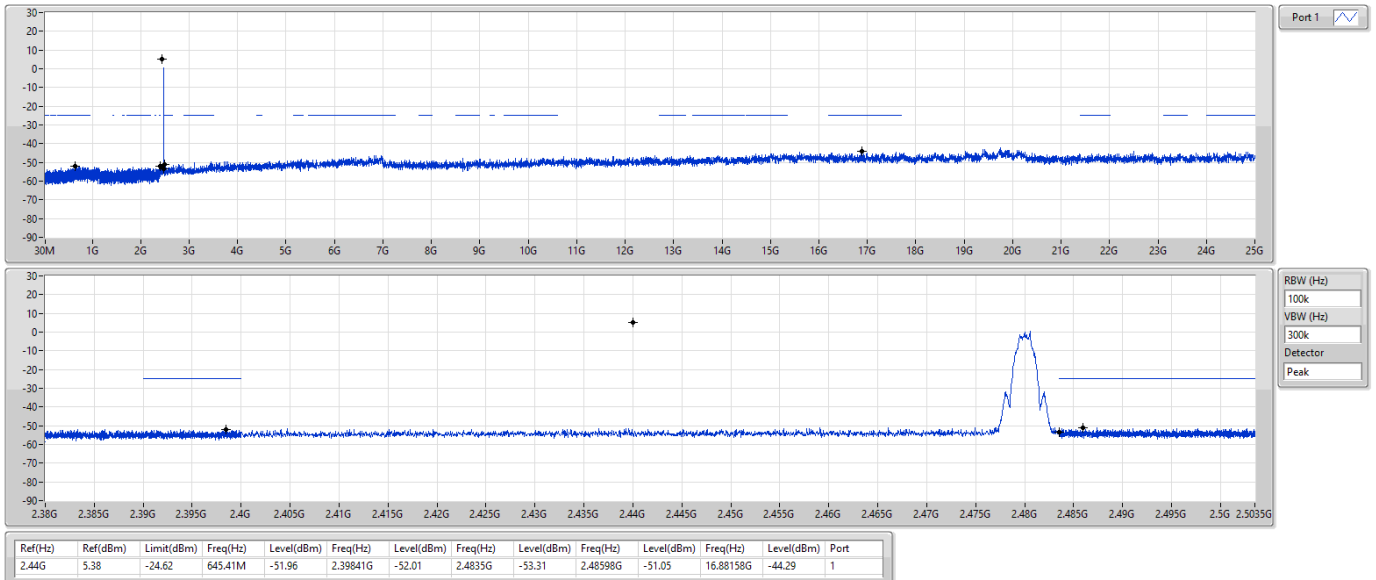
2478MHz



BT-LE(2Mbps)

CSEndB-DTS

2480MHz





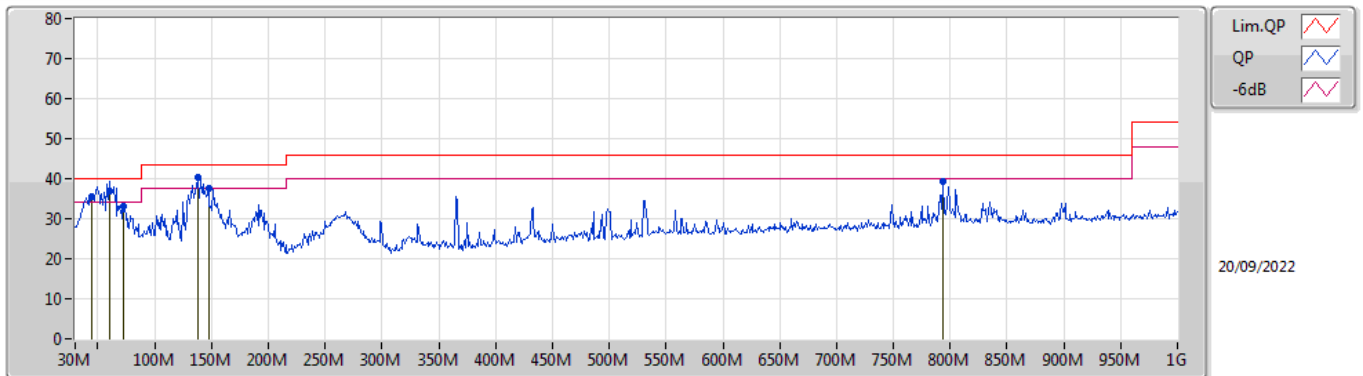
Radiated Emissions below 1GHz

Appendix F.1

Summary

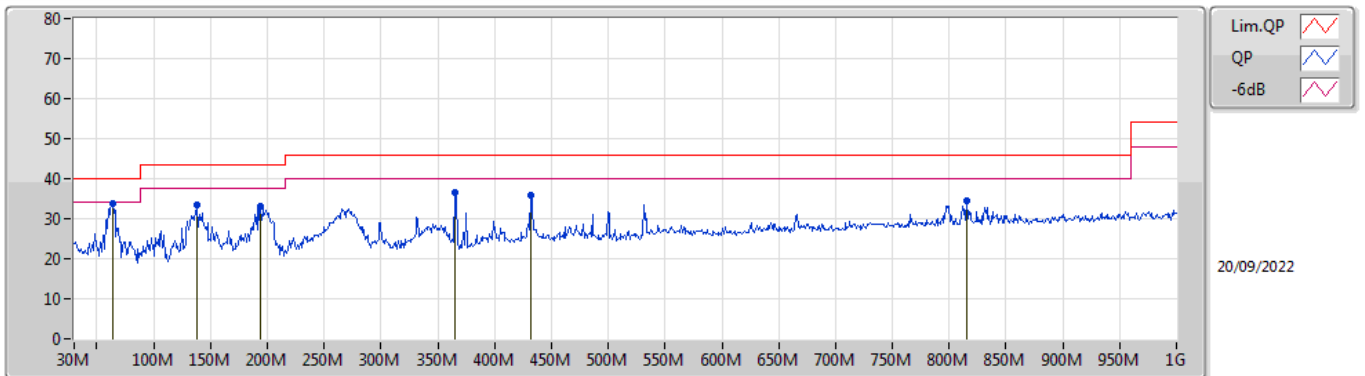
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 6	Pass	QP	60.07M	36.97	40.00	-3.03	Vertical

Mode 6



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	44.55M	35.61	40.00	-4.39	-14.61	3	Vertical	262	1.00	-	50.22	16.22	0.99	31.82
QP	60.07M	36.97	40.00	-3.03	-18.46	3	Vertical	271	1.00	"Worst"	55.43	12.26	1.20	31.92
PK	72.68M	33.21	40.00	-6.79	-18.50	3	Vertical	97	2.00	-	51.71	12.17	1.30	31.97
PK	138.64M	40.23	43.50	-3.27	-13.20	3	Vertical	121	1.00	-	53.43	17.03	1.79	32.02
PK	147.37M	37.75	43.50	-5.75	-13.77	3	Vertical	191	1.00	-	51.52	16.37	1.87	32.01
PK	793.39M	39.18	46.00	-6.82	-2.09	3	Vertical	70	1.25	-	41.27	25.56	4.87	32.52

Mode 6



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	63.95M	33.71	40.00	-6.29	-18.51	3	Horizontal	203	3.00	"Worst"	52.22	12.22	1.20	31.93
PK	138.64M	33.35	43.50	-10.15	-13.20	3	Horizontal	252	2.00	-	46.55	17.03	1.79	32.02
PK	193.93M	33.01	43.50	-10.49	-14.95	3	Horizontal	95	2.00	-	47.96	14.89	2.17	32.01
PK	364.65M	36.55	46.00	-9.45	-8.40	3	Horizontal	353	1.25	-	44.95	20.71	3.06	32.17
PK	431.58M	35.90	46.00	-10.10	-6.56	3	Horizontal	242	1.00	-	42.46	22.27	3.39	32.22
PK	815.7M	34.34	46.00	-11.66	-2.03	3	Horizontal	324	1.25	-	36.37	25.51	4.96	32.50

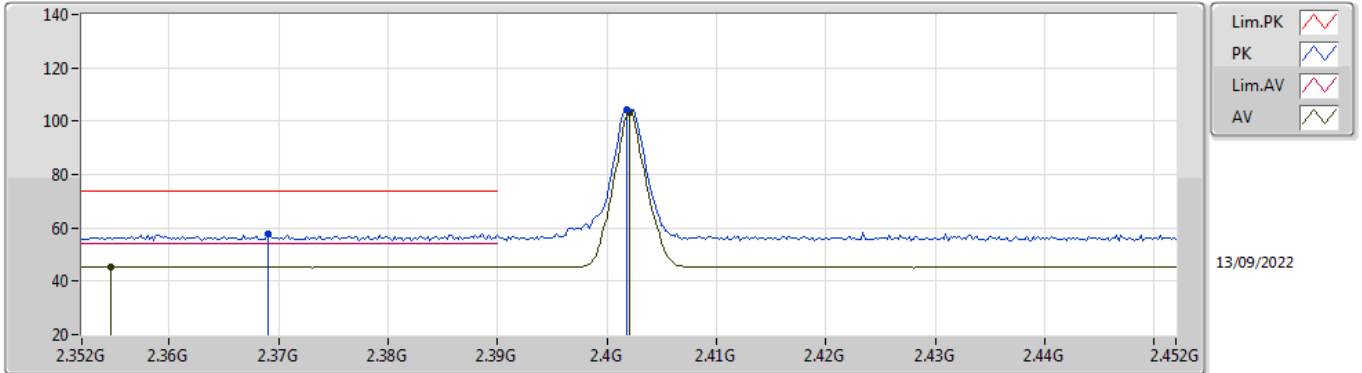


Summary

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	52.79	54.00	-1.21	3	Horizontal	2	1.95	-

BT-LE(1Mbps)

2402MHz_TX

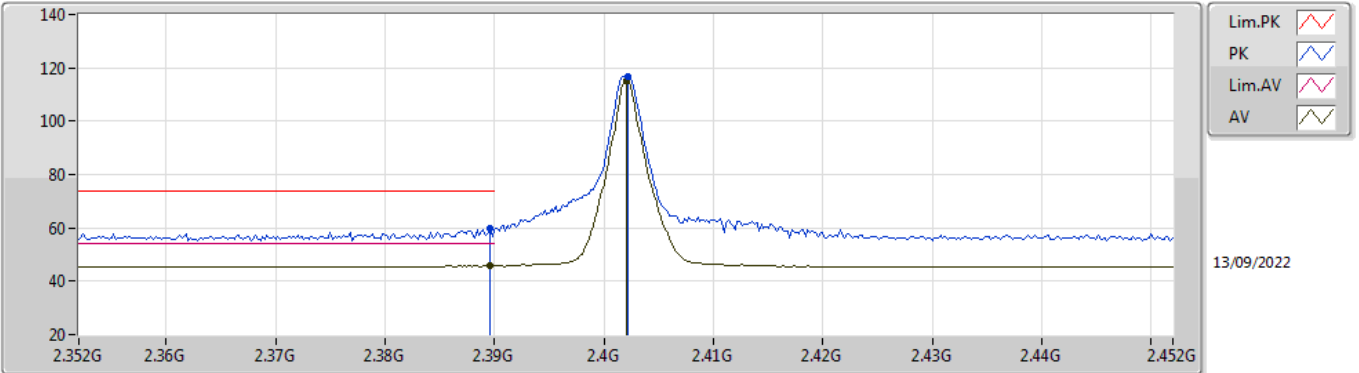


EUT V_1TX
Setting 20
03-D-K-5

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	2.369G	58.00	74.00	-16.00	25.45	3	Vertical	339	1.80	-	28.18	4.37	-
AV	2.3546G	45.46	54.00	-8.54	12.99	3	Vertical	339	1.80	-	28.12	4.35	-
PK	2.4018G	104.52	Inf	-Inf	71.82	3	Vertical	339	1.80	-	28.30	4.40	-
AV	2.402G	103.02	Inf	-Inf	70.32	3	Vertical	339	1.80	-	28.30	4.40	-

BT-LE(1Mbps)

2402MHz_TX

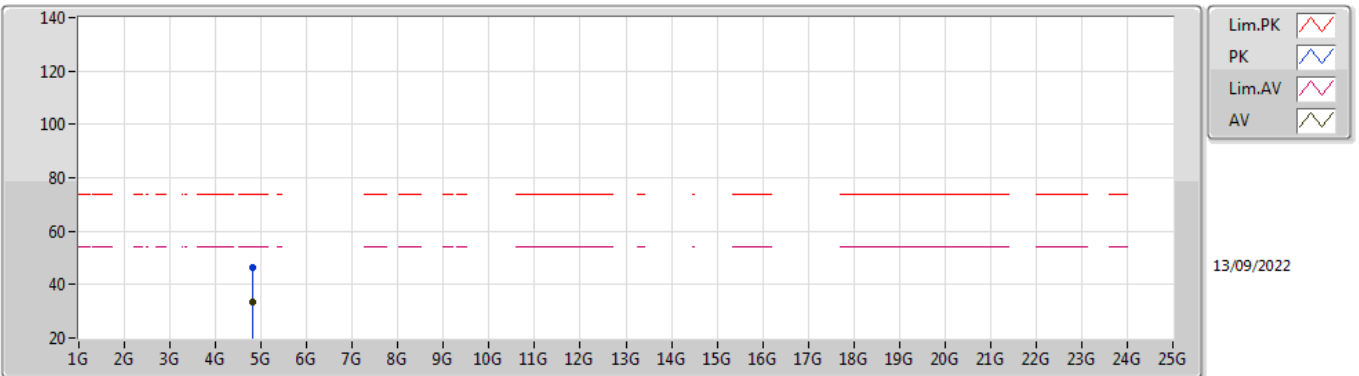


EUT_V_1TX
Setting 20
03-D-K-5

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	2.3896G	59.86	74.00	-14.14	27.21	3	Horizontal	4	2.03	-	28.26	4.39	-	
AV	2.3896G	45.90	54.00	-8.10	13.25	3	Horizontal	4	2.03	-	28.26	4.39	-	
PK	2.4022G	116.67	Inf	-Inf	83.97	3	Horizontal	4	2.03	-	28.30	4.40	-	
AV	2.402G	115.14	Inf	-Inf	82.44	3	Horizontal	4	2.03	-	28.30	4.40	-	

BT-LE(1Mbps)

2402MHz_TX

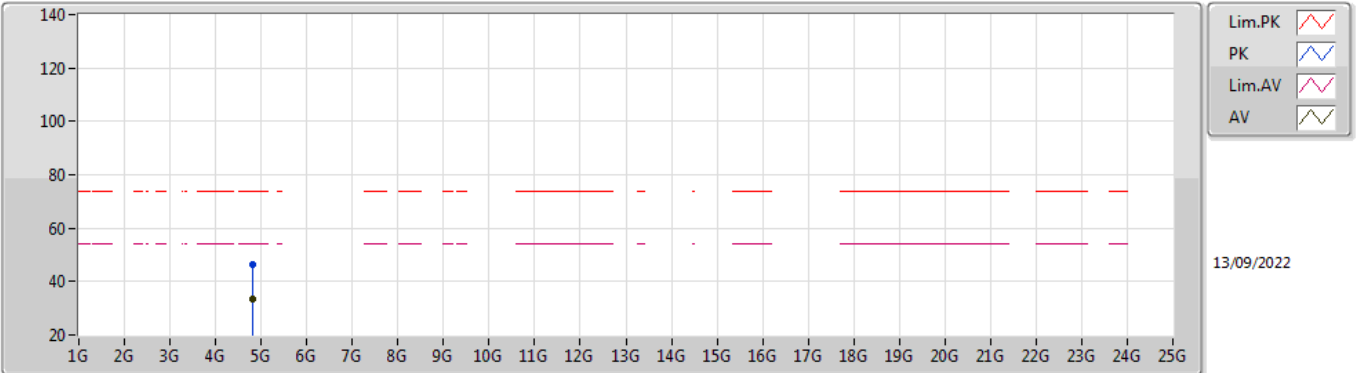


EUT Y_1TX
Setting 20
03-D-K-5

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	4.80566G	46.63	74.00	-27.37	41.20	3	Vertical	82	1.11	-	33.23	7.10	34.90
AV	4.8079G	33.59	54.00	-20.41	28.14	3	Vertical	82	1.11	-	33.25	7.10	34.90

BT-LE(1Mbps)

2402MHz_TX

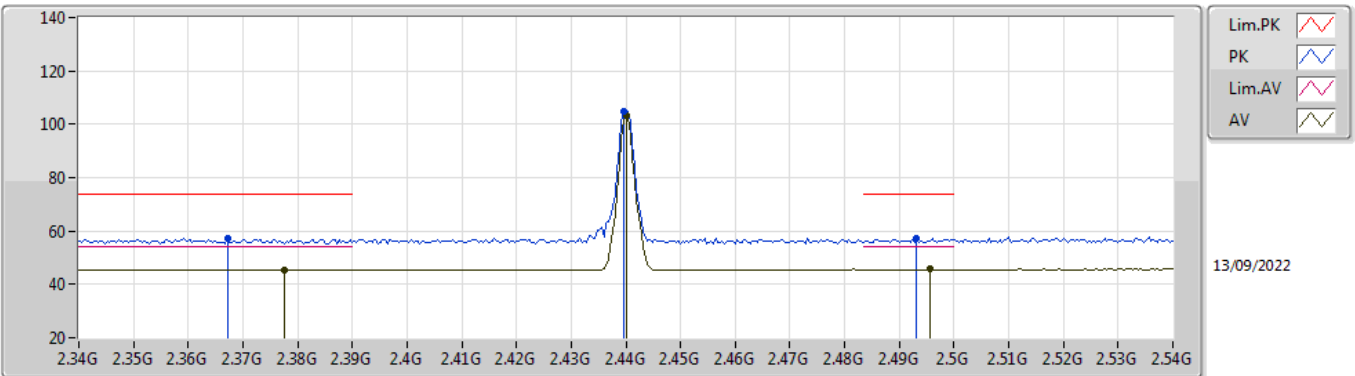


EUT V_1TX
Setting 20
03-D-K-5

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	4.8089G	46.51	74.00	-27.49	41.06	3	Horizontal	100	1.30	-	33.25	7.10	34.90
AV	4.80882G	33.55	54.00	-20.45	28.10	3	Horizontal	100	1.30	-	33.25	7.10	34.90

BT-LE(1Mbps)

2440MHz_TX

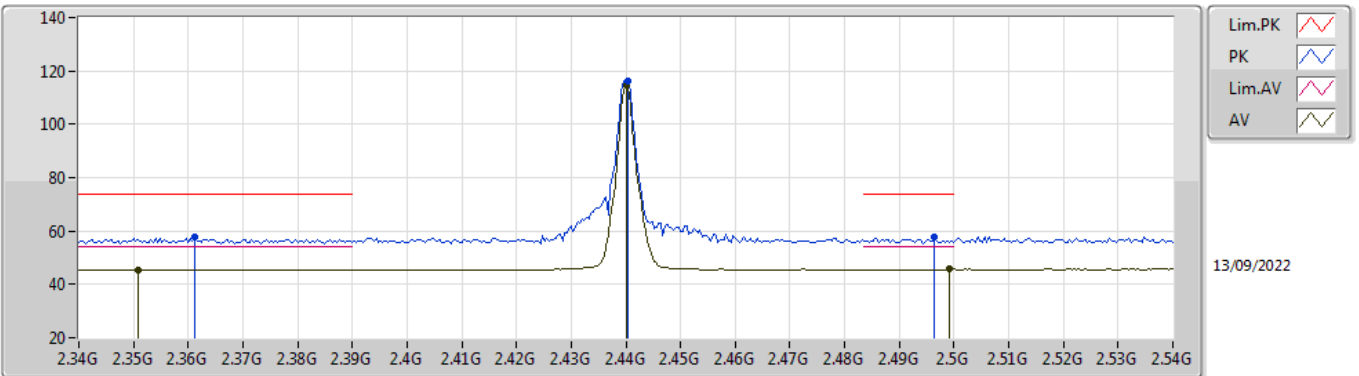


EUT_V_1TX
Setting 20
03-D-K-5

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	2.3672G	57.10	74.00	-16.90	24.56	3	Vertical	338	2.06	-	28.17	4.37	-
AV	2.3776G	45.43	54.00	-8.57	12.84	3	Vertical	338	2.06	-	28.21	4.38	-
PK	2.4396G	104.98	Inf	-Inf	72.26	3	Vertical	338	2.06	-	28.30	4.42	-
AV	2.44G	103.52	Inf	-Inf	70.80	3	Vertical	338	2.06	-	28.30	4.42	-
PK	2.4932G	57.17	74.00	-16.83	24.25	3	Vertical	338	2.06	-	28.47	4.45	-
AV	2.4956G	45.62	54.00	-8.38	12.69	3	Vertical	338	2.06	-	28.48	4.45	-

BT-LE(1Mbps)

2440MHz_TX

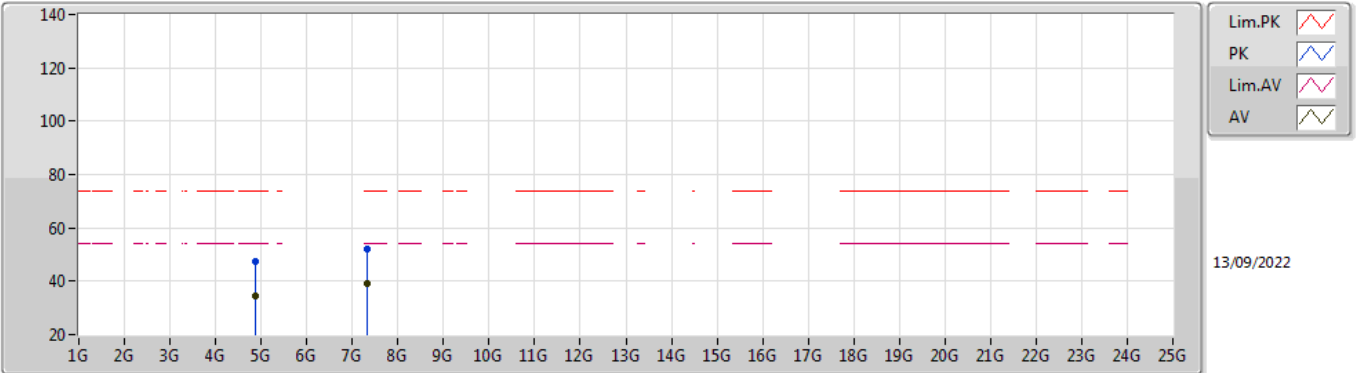


EUT V_1TX
Setting 20
03-D-K-5

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	2.3612G	57.69	74.00	-16.31	25.19	3	Horizontal	5	2.01	-	28.14	4.36	-
AV	2.3508G	45.46	54.00	-8.54	13.01	3	Horizontal	5	2.01	-	28.10	4.35	-
PK	2.4404G	116.18	Inf	-Inf	83.46	3	Horizontal	5	2.01	-	28.30	4.42	-
AV	2.44G	114.69	Inf	-Inf	81.97	3	Horizontal	5	2.01	-	28.30	4.42	-
PK	2.4964G	57.54	74.00	-16.46	24.60	3	Horizontal	5	2.01	-	28.49	4.45	-
AV	2.4992G	45.68	54.00	-8.32	12.73	3	Horizontal	5	2.01	-	28.50	4.45	-

BT-LE(1Mbps)

2440MHz_TX

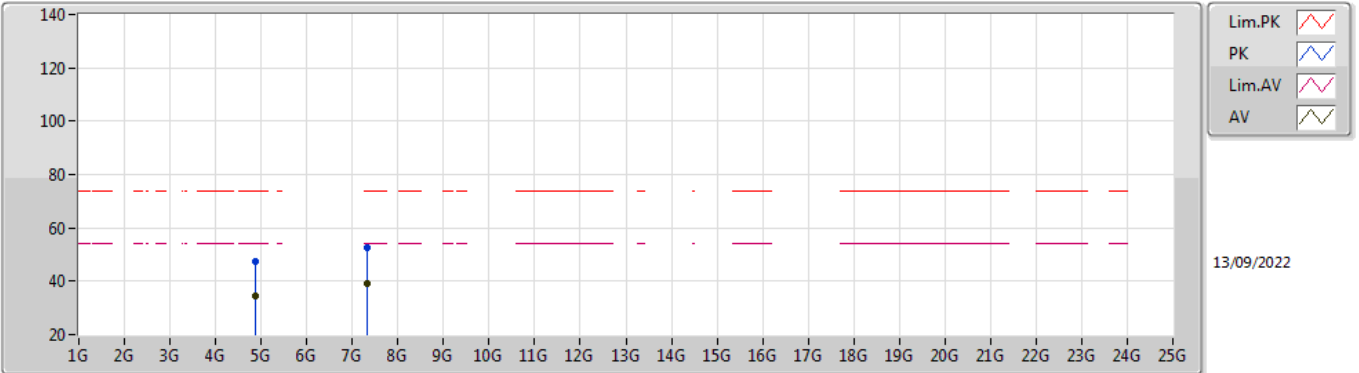


EUT Y_1TX
Setting 20
03-D-K-5

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	4.87746G	47.20	74.00	-26.80	41.38	3	Vertical	349	1.09	-	33.61	7.10	34.89
AV	4.87572G	34.26	54.00	-19.74	28.45	3	Vertical	349	1.09	-	33.60	7.10	34.89
PK	7.31738G	52.21	74.00	-21.79	42.00	3	Vertical	0	2.29	-	36.93	8.43	35.15
AV	7.3186G	39.15	54.00	-14.85	28.92	3	Vertical	0	2.29	-	36.94	8.44	35.15

BT-LE(1Mbps)

2440MHz_TX

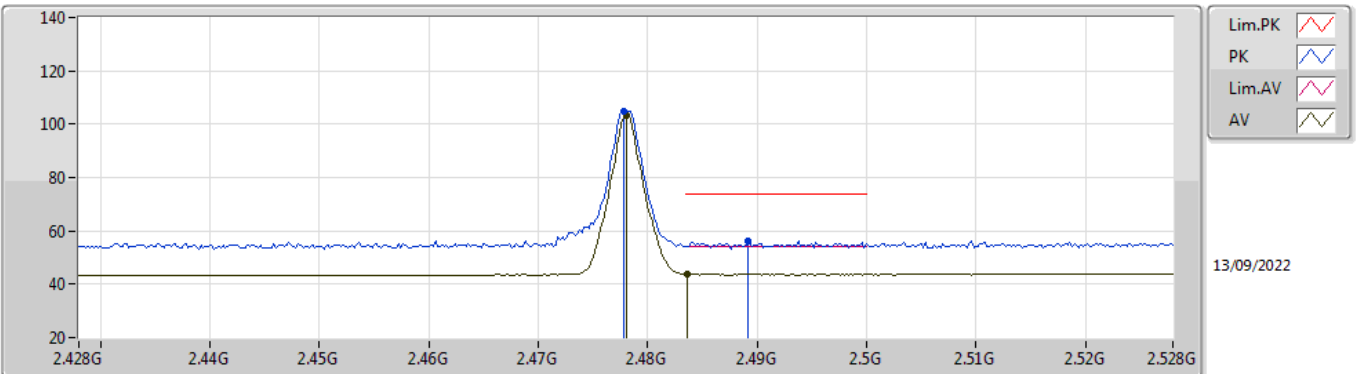


EUT Y_1TX
Setting 20
03-D-K-5

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	4.88166G	47.38	74.00	-26.62	41.54	3	Horizontal	172	2.61	-	33.63	7.10	34.89	
AV	4.87628G	34.36	54.00	-19.64	28.54	3	Horizontal	172	2.61	-	33.61	7.10	34.89	
PK	7.32152G	52.70	74.00	-21.30	42.47	3	Horizontal	120	1.19	-	36.94	8.44	35.15	
AV	7.3206G	39.25	54.00	-14.75	29.02	3	Horizontal	120	1.19	-	36.94	8.44	35.15	

BT-LE(1Mbps)

2478MHz_TX

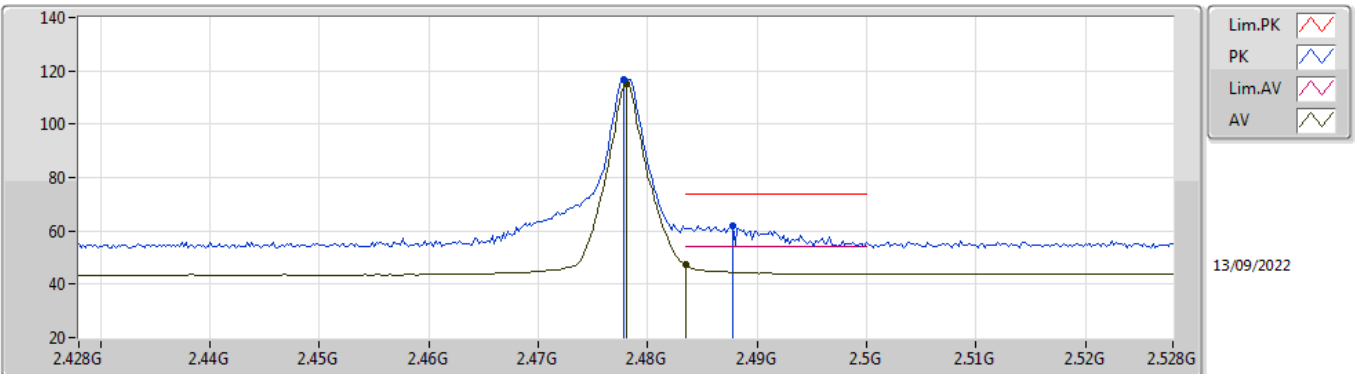


EUT V_1TX
Setting 20
01-A-K-5

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	2.4778G	105.00	Inf	-Inf	73.49	3	Vertical	341	2.01	-	27.67	3.84	-	
AV	2.478G	103.52	Inf	-Inf	72.01	3	Vertical	341	2.01	-	27.67	3.84	-	
PK	2.4892G	56.36	74.00	-17.64	24.78	3	Vertical	341	2.01	-	27.74	3.84	-	
AV	2.4836G	43.78	54.00	-10.22	12.24	3	Vertical	341	2.01	-	27.70	3.84	-	

BT-LE(1Mbps)

2478MHz_TX

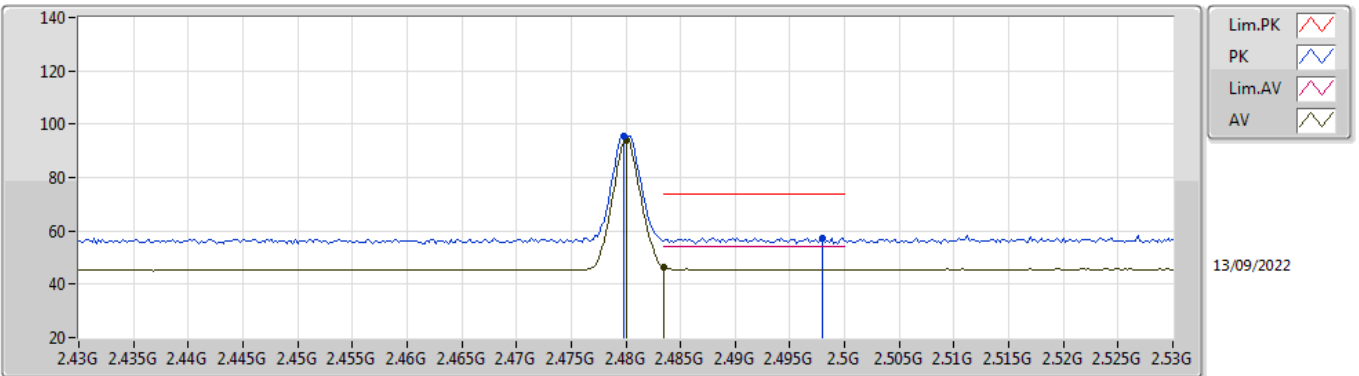


EUT_V_1TX
Setting 20
01-A-K-5

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	2.4778G	116.58	Inf	-Inf	85.07	3	Horizontal	360	2.18	-	27.67	3.84	-	
AV	2.478G	115.14	Inf	-Inf	83.63	3	Horizontal	360	2.18	-	27.67	3.84	-	
PK	2.4878G	61.82	74.00	-12.18	30.25	3	Horizontal	360	2.18	-	27.73	3.84	-	
AV	2.4835G	47.44	54.00	-6.56	15.90	3	Horizontal	360	2.18	-	27.70	3.84	-	

BT-LE(1Mbps)

2480MHz_TX

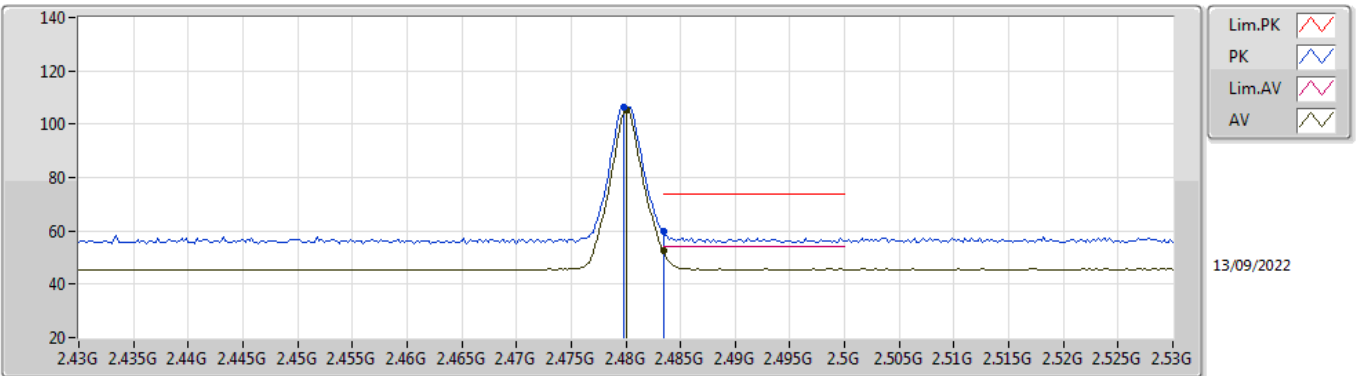


EUT V_1TX
Setting 0
03-D-K-5

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	2.4798G	95.72	Inf	-Inf	62.86	3	Vertical	343	1.77	-	28.42	4.44	-	
AV	2.48G	94.19	Inf	-Inf	61.33	3	Vertical	343	1.77	-	28.42	4.44	-	
PK	2.498G	57.47	74.00	-16.53	24.53	3	Vertical	343	1.77	-	28.49	4.45	-	
AV	2.4835G	46.30	54.00	-7.70	13.43	3	Vertical	343	1.77	-	28.43	4.44	-	

BT-LE(1Mbps)

2480MHz_TX

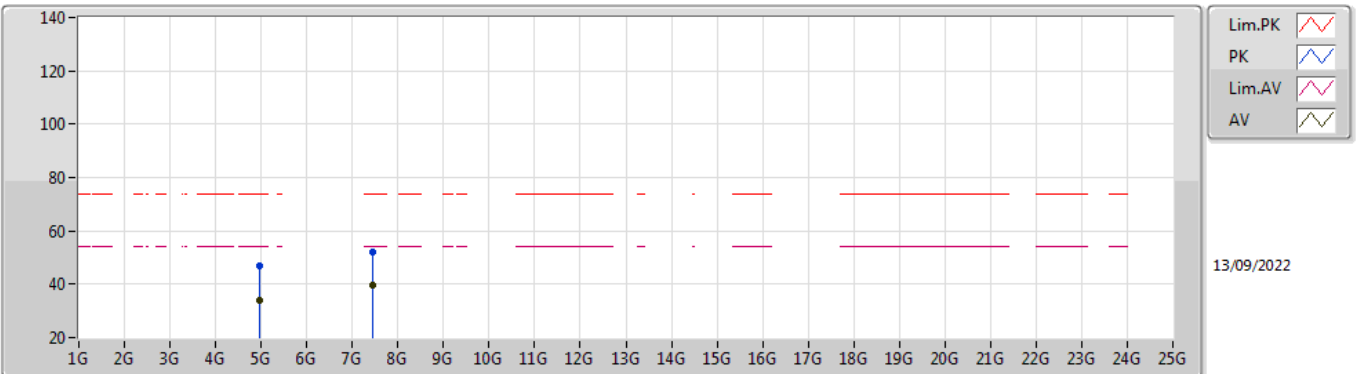


EUT_V_1TX
Setting 0
03-D-K-5

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	2.4798G	106.63	Inf	-Inf	73.77	3	Horizontal	2	1.95	-	28.42	4.44	-	
AV	2.48G	105.13	Inf	-Inf	72.27	3	Horizontal	2	1.95	-	28.42	4.44	-	
PK	2.4835G	59.63	74.00	-14.37	26.76	3	Horizontal	2	1.95	-	28.43	4.44	-	
AV	2.4835G	52.79	54.00	-1.21	19.92	3	Horizontal	2	1.95	-	28.43	4.44	-	

BT-LE(1Mbps)

2480MHz_TX

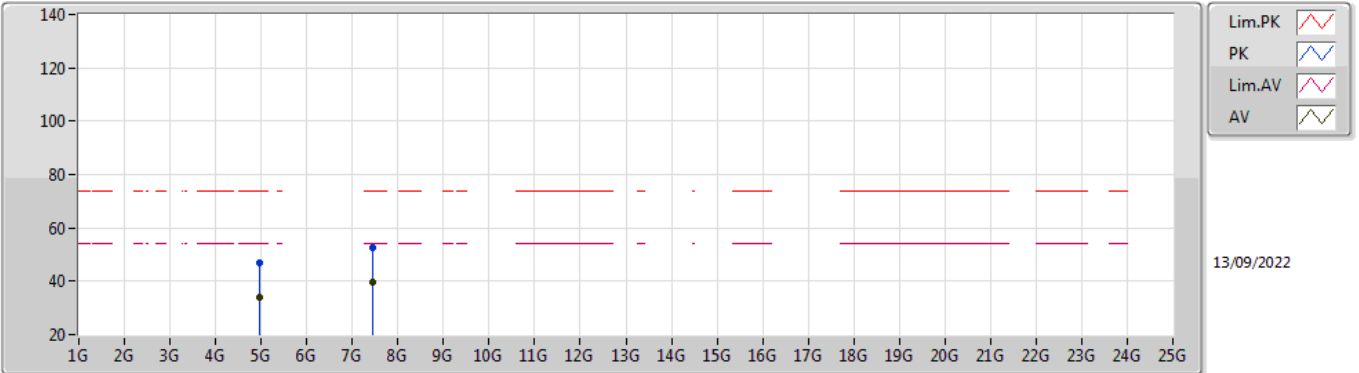


EUT V_1TX
Setting 0
03-D-K-5

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	4.95968G	47.13	74.00	-26.87	41.14	3	Vertical	103	1.11	-	33.78	7.10	34.89
AV	4.9564G	34.11	54.00	-19.89	28.11	3	Vertical	103	1.11	-	33.79	7.10	34.89
PK	7.44498G	52.00	74.00	-22.00	41.69	3	Vertical	125	1.00	-	36.91	8.60	35.20
AV	7.43772G	39.44	54.00	-14.56	29.12	3	Vertical	125	1.00	-	36.92	8.60	35.20

BT-LE(1Mbps)

2480MHz_TX

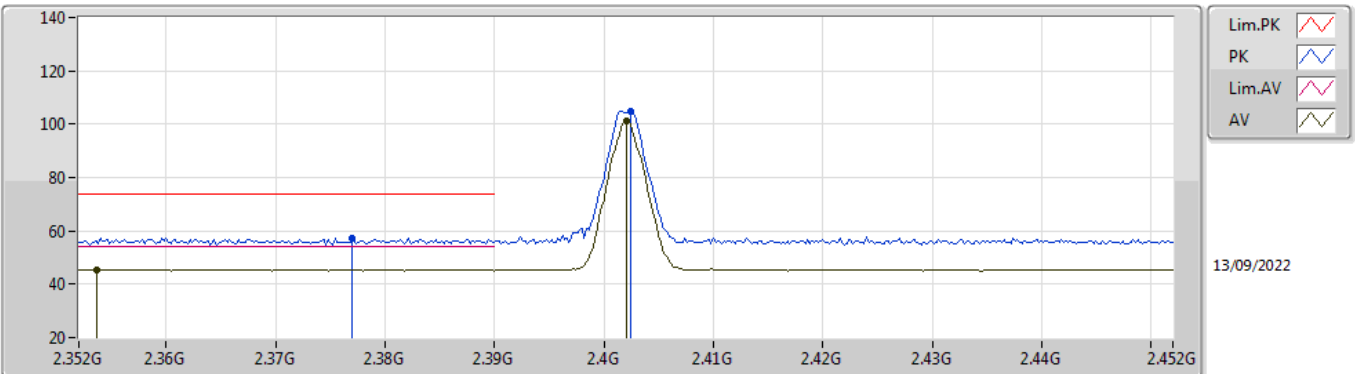


EUT V_1TX
Setting 0
03-D-K-5

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	4.95966G	46.79	74.00	-27.21	40.80	3	Horizontal	203	1.15	-	33.78	7.10	34.89	
AV	4.96264G	33.94	54.00	-20.06	27.96	3	Horizontal	203	1.15	-	33.77	7.10	34.89	
PK	7.44G	52.33	74.00	-21.67	42.01	3	Horizontal	151	2.05	-	36.92	8.60	35.20	
AV	7.44234G	39.55	54.00	-14.45	29.23	3	Horizontal	151	2.05	-	36.92	8.60	35.20	

BT-LE(2Mbps)

2402MHz_TX

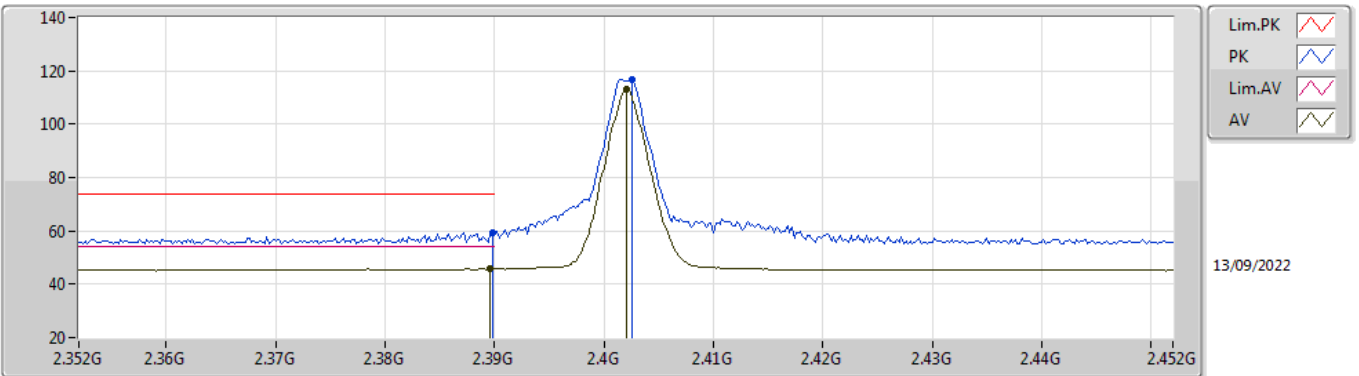


EUT_V_1TX
Setting 20
03-D-K-5

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	2.377G	57.43	74.00	-16.57	24.84	3	Vertical	345	1.49	-	28.21	4.38	-	
AV	2.3536G	45.59	54.00	-8.41	13.13	3	Vertical	345	1.49	-	28.11	4.35	-	
PK	2.4024G	104.77	Inf	-Inf	72.07	3	Vertical	345	1.49	-	28.30	4.40	-	
AV	2.402G	101.25	Inf	-Inf	68.55	3	Vertical	345	1.49	-	28.30	4.40	-	

BT-LE(2Mbps)

2402MHz_TX

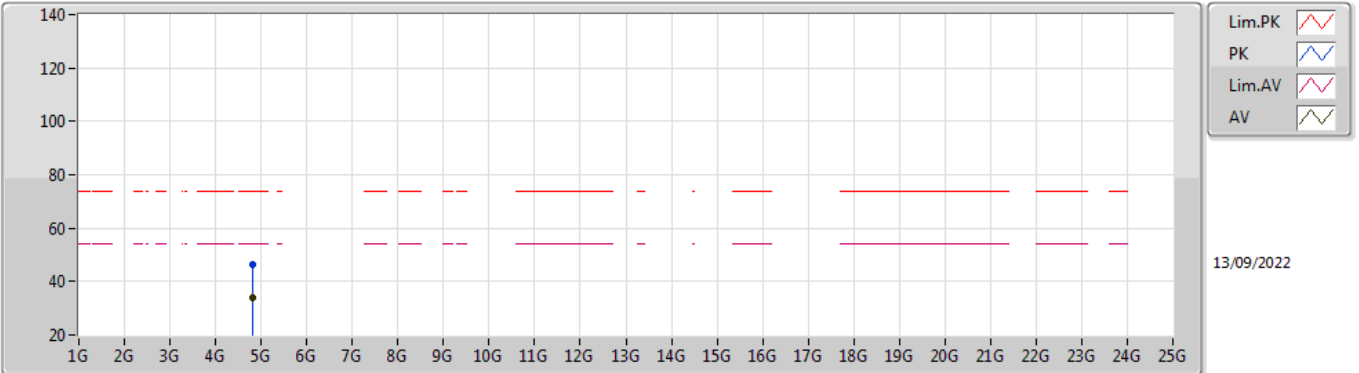


EUT V_1TX
Setting 20
03-D-K-5

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	2.3898G	59.52	74.00	-14.48	26.87	3	Horizontal	4	2.05	-	28.26	4.39	-	
AV	2.3896G	45.80	54.00	-8.20	13.15	3	Horizontal	4	2.05	-	28.26	4.39	-	
PK	2.4026G	116.55	Inf	-Inf	83.85	3	Horizontal	4	2.05	-	28.30	4.40	-	
AV	2.402G	112.99	Inf	-Inf	80.29	3	Horizontal	4	2.05	-	28.30	4.40	-	

BT-LE(2Mbps)

2402MHz_TX

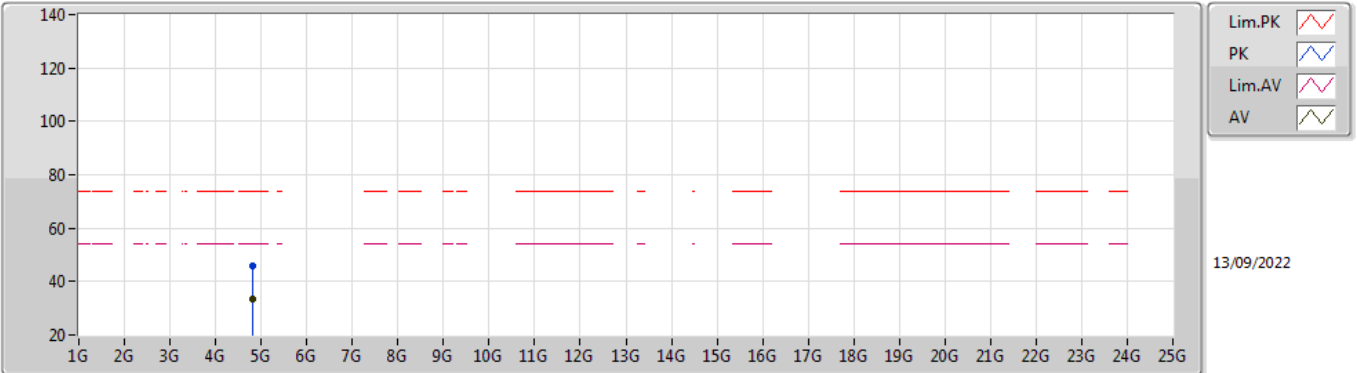


EUT V_1TX
Setting 20
03-D-K-5

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	4.79902G	46.52	74.00	-27.48	41.12	3	Vertical	93	1.19	-	33.20	7.10	34.90
AV	4.80686G	33.74	54.00	-20.26	28.30	3	Vertical	93	1.19	-	33.24	7.10	34.90

BT-LE(2Mbps)

2402MHz_TX

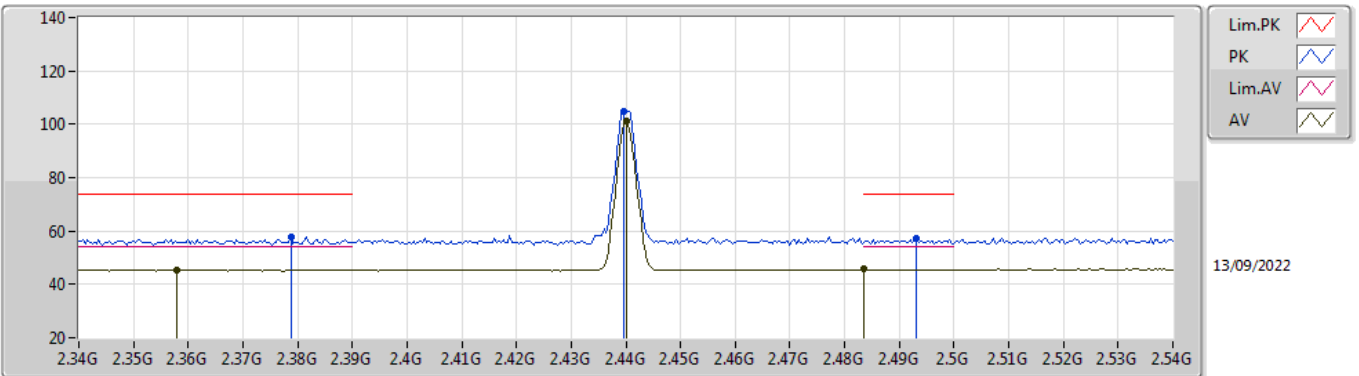


EUT V_1TX
Setting 20
03-D-K-5

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	4.80552G	46.07	74.00	-27.93	40.64	3	Horizontal	295	1.07	-	33.23	7.10	34.90
AV	4.80768G	33.62	54.00	-20.38	28.17	3	Horizontal	295	1.07	-	33.25	7.10	34.90

BT-LE(2Mbps)

2440MHz_TX

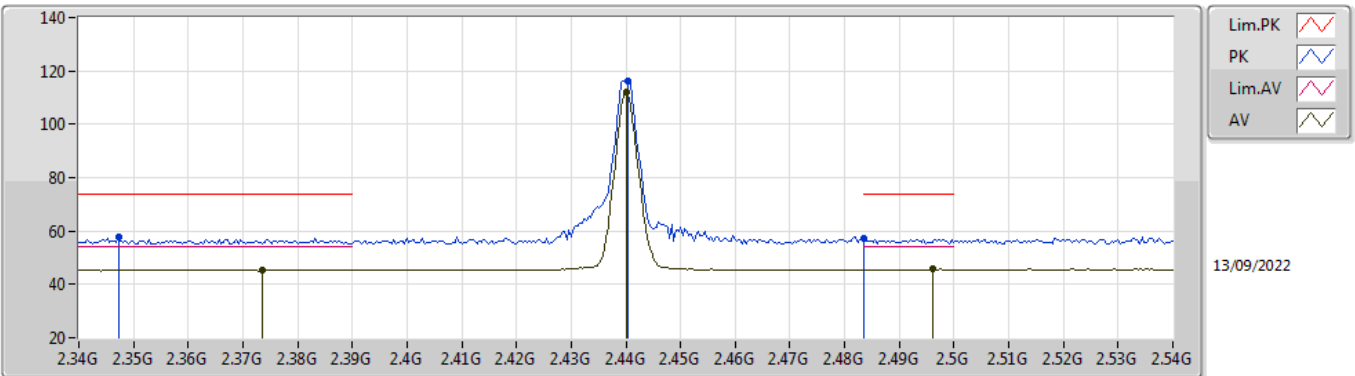


EUT V_1TX
Setting 20
03-D-K-5

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	2.3788G	57.69	74.00	-16.31	25.09	3	Vertical	339	2.07	-	28.22	4.38	-
AV	2.358G	45.46	54.00	-8.54	12.97	3	Vertical	339	2.07	-	28.13	4.36	-
PK	2.4396G	104.85	Inf	-Inf	72.13	3	Vertical	339	2.07	-	28.30	4.42	-
AV	2.44G	101.25	Inf	-Inf	68.53	3	Vertical	339	2.07	-	28.30	4.42	-
PK	2.4932G	57.11	74.00	-16.89	24.19	3	Vertical	339	2.07	-	28.47	4.45	-
AV	2.4835G	45.62	54.00	-8.38	12.75	3	Vertical	339	2.07	-	28.43	4.44	-

BT-LE(2Mbps)

2440MHz_TX

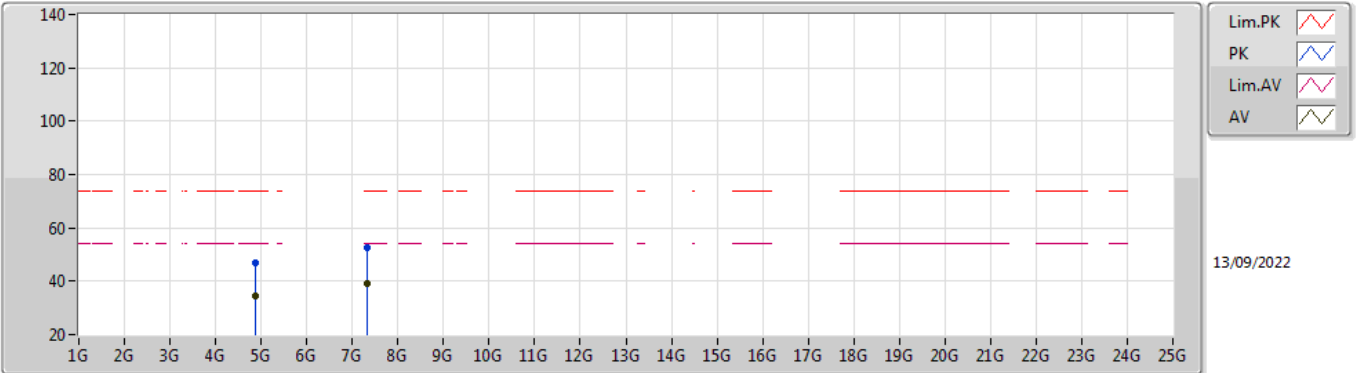


EUT_V_1TX
Setting 20
03-D-K-5

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	2.3472G	57.63	74.00	-16.37	25.19	3	Horizontal	5	2.04	-	28.09	4.35	-
AV	2.3736G	45.42	54.00	-8.58	12.86	3	Horizontal	5	2.04	-	28.19	4.37	-
PK	2.4404G	116.01	Inf	-Inf	83.29	3	Horizontal	5	2.04	-	28.30	4.42	-
AV	2.44G	112.32	Inf	-Inf	79.60	3	Horizontal	5	2.04	-	28.30	4.42	-
PK	2.4835G	57.36	74.00	-16.64	24.49	3	Horizontal	5	2.04	-	28.43	4.44	-
AV	2.496G	45.64	54.00	-8.36	12.71	3	Horizontal	5	2.04	-	28.48	4.45	-

BT-LE(2Mbps)

2440MHz_TX

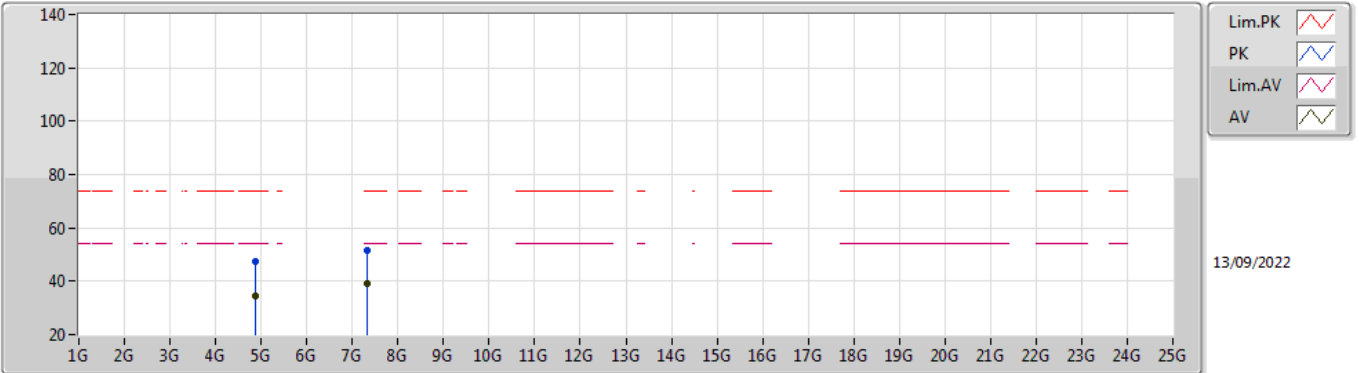


EUT V_1TX
Setting 20
03-D-K-5

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	4.87656G	46.88	74.00	-27.12	41.06	3	Vertical	147	1.46	-	33.61	7.10	34.89
AV	4.87512G	34.27	54.00	-19.73	28.46	3	Vertical	147	1.46	-	33.60	7.10	34.89
PK	7.3182G	52.43	74.00	-21.57	42.20	3	Vertical	113	2.79	-	36.94	8.44	35.15
AV	7.3189G	39.28	54.00	-14.72	29.05	3	Vertical	113	2.79	-	36.94	8.44	35.15

BT-LE(2Mbps)

2440MHz_TX

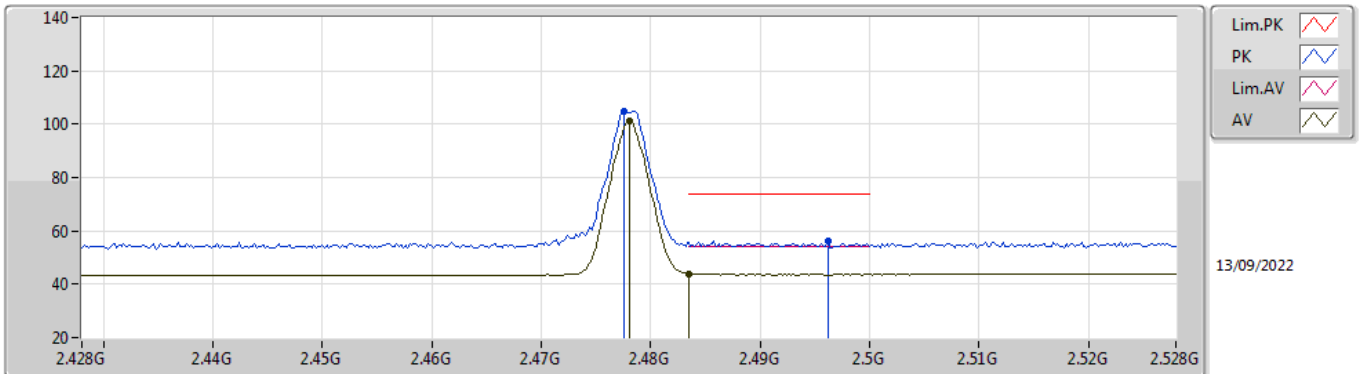


EUT Y_1TX
Setting 20
03-D-K-5

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	4.87784G	47.61	74.00	-26.39	41.79	3	Horizontal	56	2.13	-	33.61	7.10	34.89
AV	4.87588G	34.45	54.00	-19.55	28.64	3	Horizontal	56	2.13	-	33.60	7.10	34.89
PK	7.32214G	51.78	74.00	-22.22	41.55	3	Horizontal	337	1.55	-	36.94	8.44	35.15
AV	7.31538G	39.23	54.00	-14.77	29.02	3	Horizontal	337	1.55	-	36.93	8.43	35.15

BT-LE(2Mbps)

2478MHz_TX

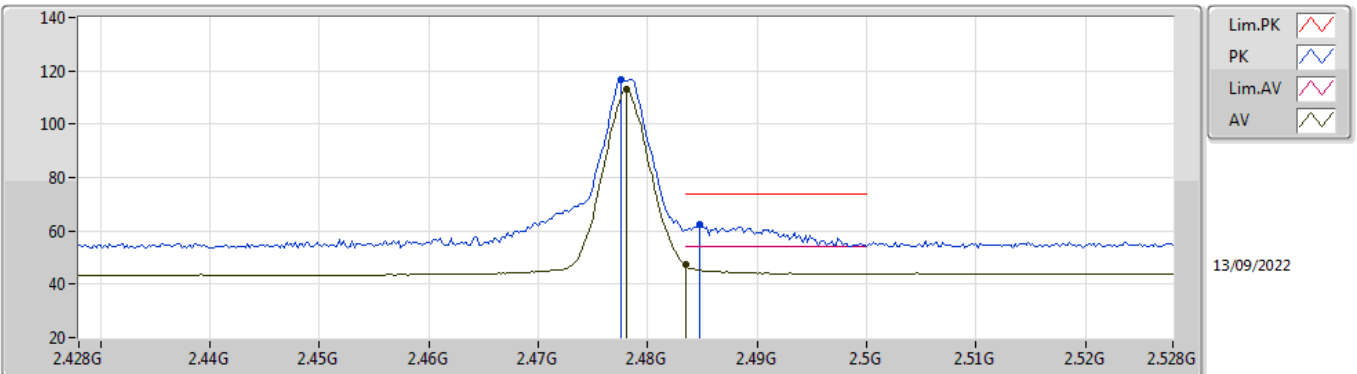


EUT V_1TX
Setting 20
01-A-K-5

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	2.4776G	104.90	Inf	-Inf	73.39	3	Vertical	339	2.02	-	27.67	3.84	-
AV	2.478G	101.38	Inf	-Inf	69.87	3	Vertical	339	2.02	-	27.67	3.84	-
PK	2.4962G	56.21	74.00	-17.79	24.58	3	Vertical	339	2.02	-	27.78	3.85	-
AV	2.4835G	43.74	54.00	-10.26	12.20	3	Vertical	339	2.02	-	27.70	3.84	-

BT-LE(2Mbps)

2478MHz_TX

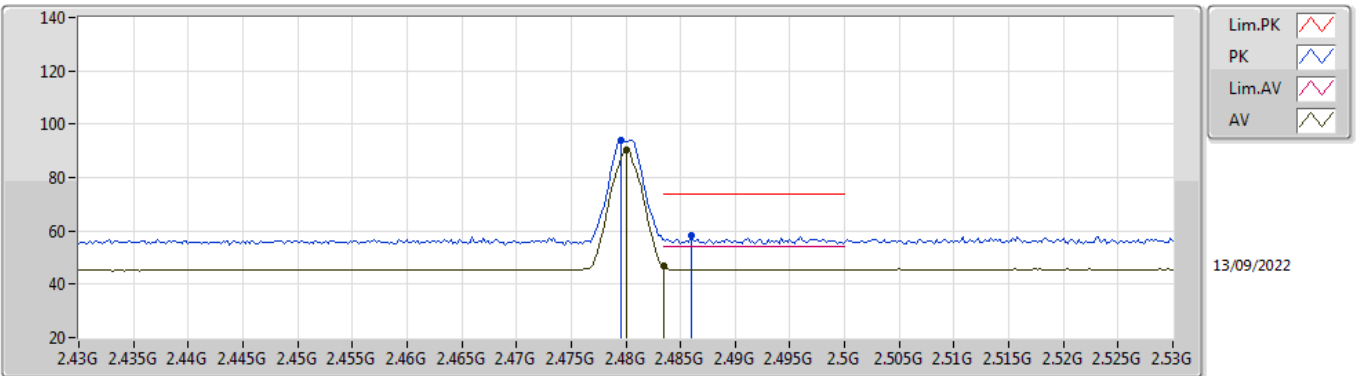


EUT_V_1TX
Setting 20
01-A-K-5

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	2.4776G	116.71	Inf	-Inf	85.20	3	Horizontal	358	2.19	-	27.67	3.84	-	
AV	2.478G	113.22	Inf	-Inf	81.71	3	Horizontal	358	2.19	-	27.67	3.84	-	
PK	2.4848G	62.16	74.00	-11.84	30.61	3	Horizontal	358	2.19	-	27.71	3.84	-	
AV	2.4835G	47.28	54.00	-6.72	15.74	3	Horizontal	358	2.19	-	27.70	3.84	-	

BT-LE(2Mbps)

2480MHz_TX

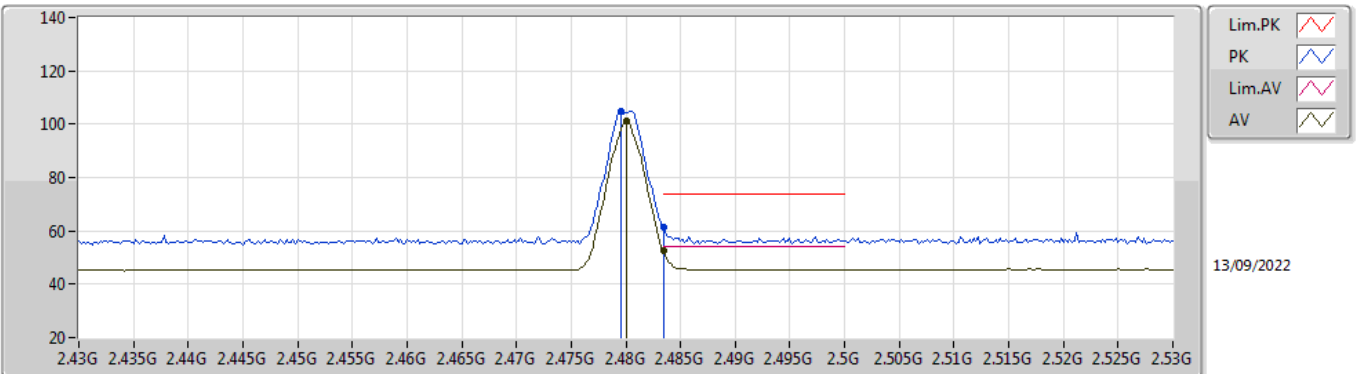


EUT V_1TX
Setting -1
03-D-K-5

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	2.4796G	93.89	Inf	-Inf	61.03	3	Vertical	345	1.78	-	28.42	4.44	-	
AV	2.48G	90.34	Inf	-Inf	57.48	3	Vertical	345	1.78	-	28.42	4.44	-	
PK	2.486G	58.02	74.00	-15.98	25.14	3	Vertical	345	1.78	-	28.44	4.44	-	
AV	2.4835G	46.68	54.00	-7.32	13.81	3	Vertical	345	1.78	-	28.43	4.44	-	

BT-LE(2Mbps)

2480MHz_TX

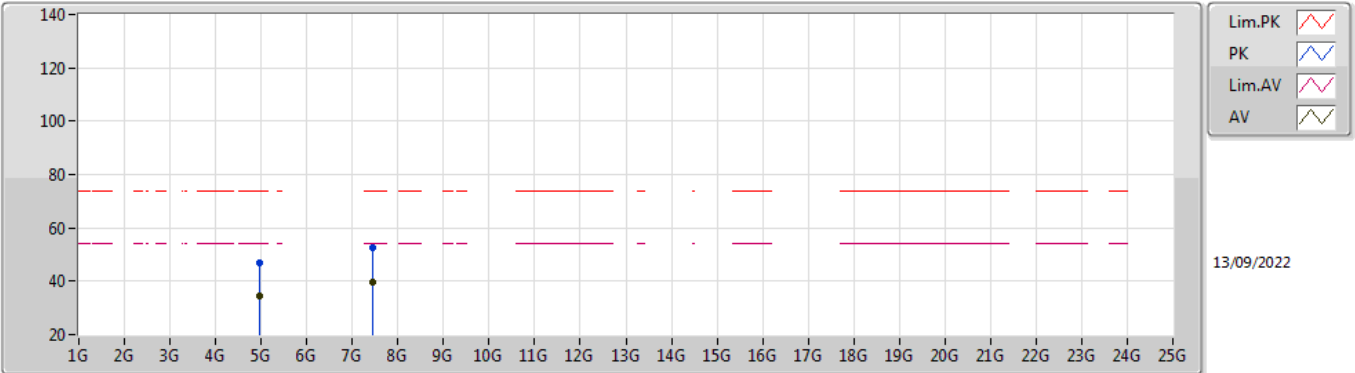


EUT V_1TX
Setting -1
03-D-K-5

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	2.4796G	104.72	Inf	-Inf	71.86	3	Horizontal	4	1.76	-	28.42	4.44	-	
AV	2.48G	101.10	Inf	-Inf	68.24	3	Horizontal	4	1.76	-	28.42	4.44	-	
PK	2.4835G	61.45	74.00	-12.55	28.58	3	Horizontal	4	1.76	-	28.43	4.44	-	
AV	2.4835G	52.77	54.00	-1.23	19.90	3	Horizontal	4	1.76	-	28.43	4.44	-	

BT-LE(2Mbps)

2480MHz_TX

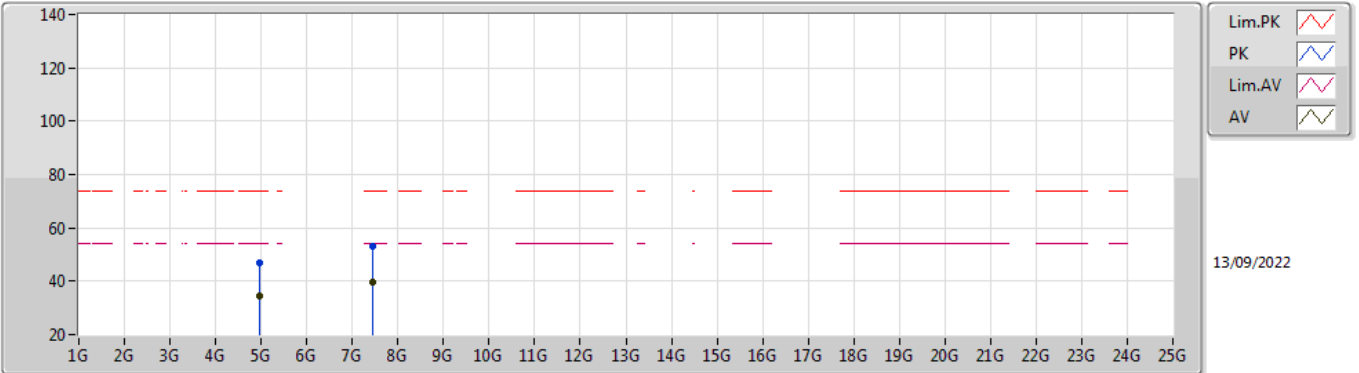


EUT V_1TX
Setting -1
03-D-K-5

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	4.95268G	46.98	74.00	-27.02	40.98	3	Vertical	277	3.00	-	33.79	7.10	34.89	
AV	4.96908G	34.35	54.00	-19.65	28.38	3	Vertical	277	3.00	-	33.76	7.10	34.89	
PK	7.44804G	52.44	74.00	-21.56	42.15	3	Vertical	149	1.33	-	36.90	8.60	35.21	
AV	7.44136G	39.57	54.00	-14.43	29.25	3	Vertical	149	1.33	-	36.92	8.60	35.20	

BT-LE(2Mbps)

2480MHz_TX



EUT V_1TX
Setting -1
03-D-K-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	4.96744G	46.88	74.00	-27.12	40.90	3	Horizontal	236	1.69	-	33.77	7.10	34.89
AV	4.96852G	34.28	54.00	-19.72	28.31	3	Horizontal	236	1.69	-	33.76	7.10	34.89
PK	7.43756G	53.26	74.00	-20.74	42.94	3	Horizontal	53	2.38	-	36.92	8.60	35.20
AV	7.44856G	39.73	54.00	-14.27	29.44	3	Horizontal	53	2.38	-	36.90	8.60	35.21

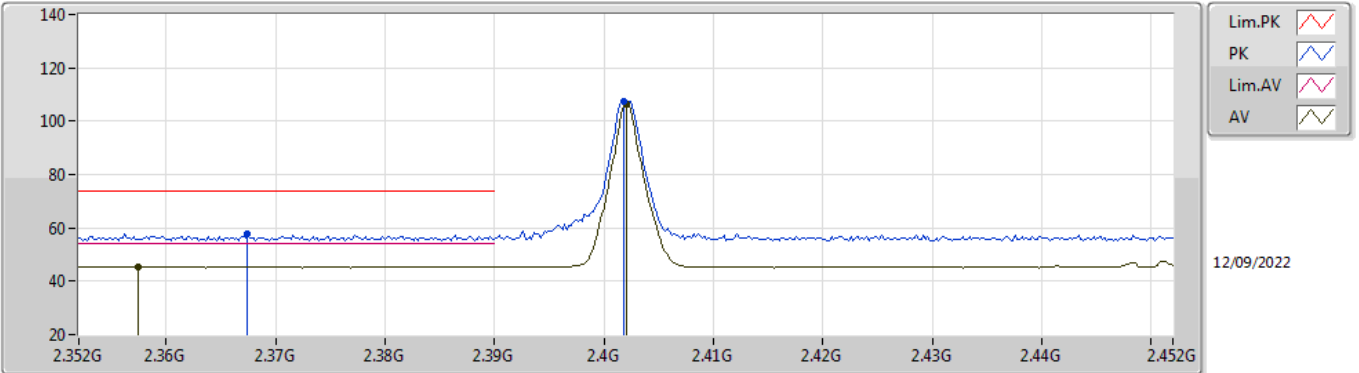


Summary

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	52.95	54.00	-1.05	3	Horizontal	186	2.96	-
BT-LE(2Mbps)	Pass	AV	2.4835G	52.86	54.00	-1.14	3	Horizontal	178	2.97	-

BT-LE(1Mbps)

2402MHz_TX

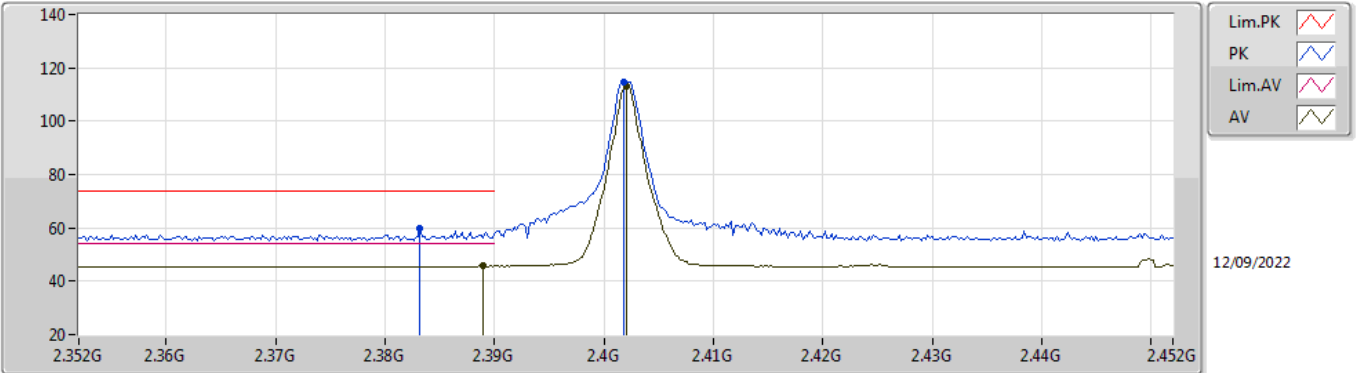


EUT_Z_1TX
Setting 20
03-D-K-5

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	2.3674G	57.54	74.00	-16.46	25.00	3	Vertical	253	2.89	-	28.17	4.37	-	
AV	2.3574G	45.46	54.00	-8.54	12.97	3	Vertical	253	2.89	-	28.13	4.36	-	
PK	2.4018G	107.66	Inf	-Inf	74.96	3	Vertical	253	2.89	-	28.30	4.40	-	
AV	2.402G	106.18	Inf	-Inf	73.48	3	Vertical	253	2.89	-	28.30	4.40	-	

BT-LE(1Mbps)

2402MHz_TX

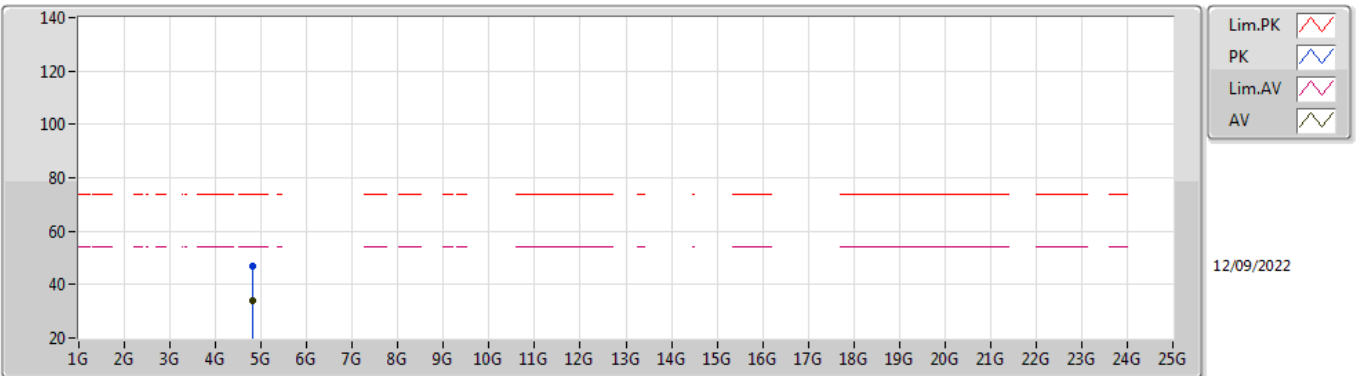


EUT_Z_1TX
Setting 20
03-D-K-5

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	2.3832G	60.05	74.00	-13.95	27.44	3	Horizontal	190	2.83	-	28.23	4.38	-	
AV	2.389G	45.74	54.00	-8.26	13.09	3	Horizontal	190	2.83	-	28.26	4.39	-	
PK	2.4018G	114.90	Inf	-Inf	82.20	3	Horizontal	190	2.83	-	28.30	4.40	-	
AV	2.402G	113.35	Inf	-Inf	80.65	3	Horizontal	190	2.83	-	28.30	4.40	-	

BT-LE(1Mbps)

2402MHz_TX

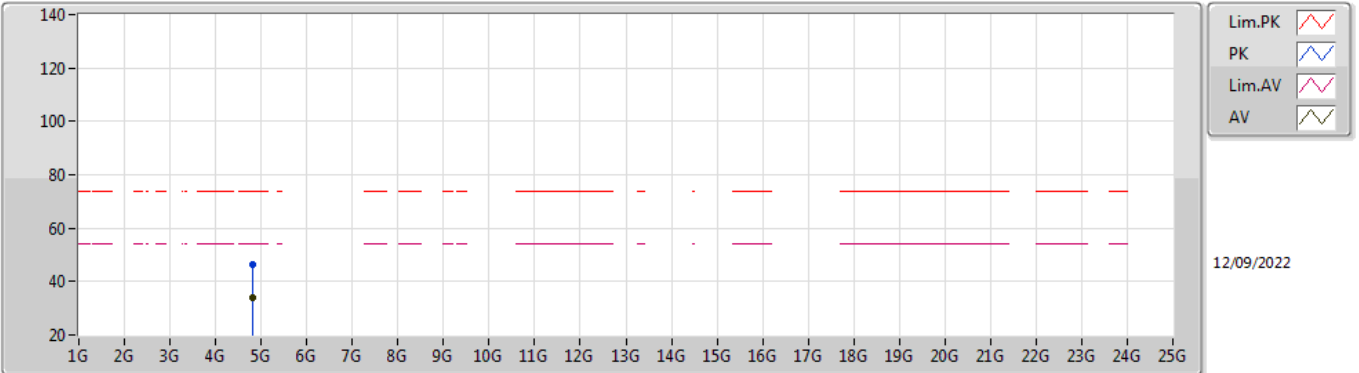


EUT_Z_1TX
Setting 20
03-D-K-5

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	4.81316G	46.72	74.00	-27.28	41.24	3	Vertical	180	2.39	-	33.28	7.10	34.90
AV	4.81392G	33.89	54.00	-20.11	28.41	3	Vertical	180	2.39	-	33.28	7.10	34.90

BT-LE(1Mbps)

2402MHz_TX

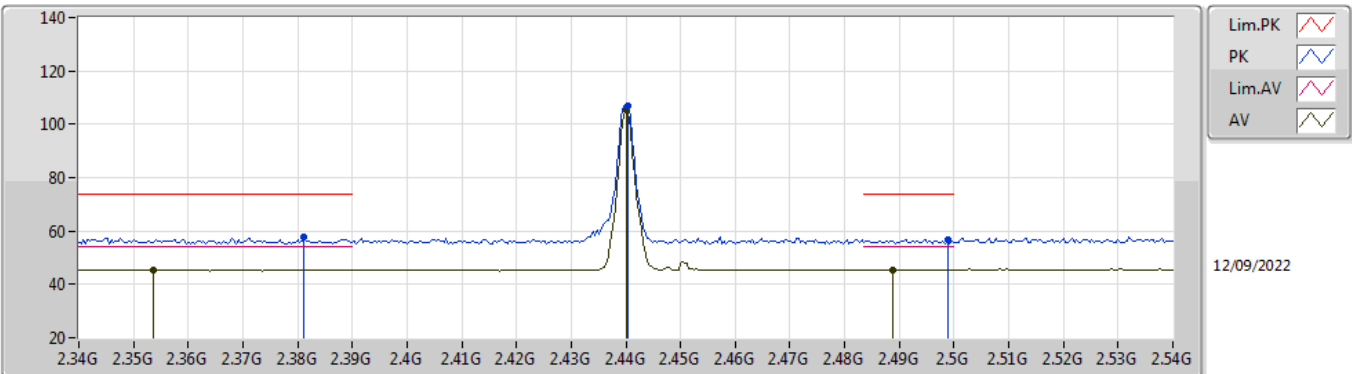


EUT_Z_1TX
Setting 20
03-D-K-5

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	4.80688G	46.50	74.00	-27.50	41.06	3	Horizontal	48	1.18	-	33.24	7.10	34.90	
AV	4.80748G	33.82	54.00	-20.18	28.38	3	Horizontal	48	1.18	-	33.24	7.10	34.90	

BT-LE(1Mbps)

2440MHz_TX

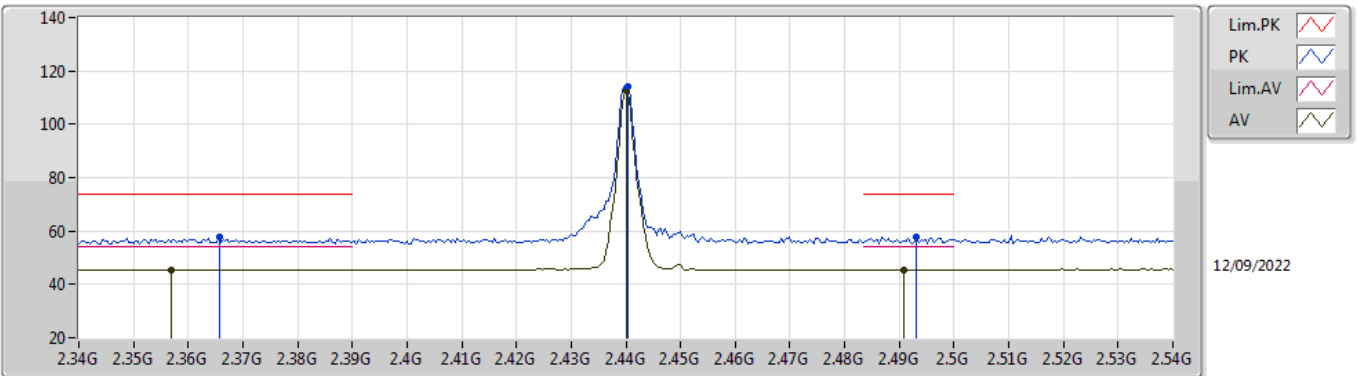


EUT_Z_1TX
Setting 20
03-D-K-5

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	2.3812G	57.69	74.00	-16.31	25.09	3	Vertical	244	2.78	-	28.22	4.38	-
AV	2.3536G	45.43	54.00	-8.57	12.97	3	Vertical	244	2.78	-	28.11	4.35	-
PK	2.4404G	106.96	Inf	-Inf	74.24	3	Vertical	244	2.78	-	28.30	4.42	-
AV	2.44G	105.52	Inf	-Inf	72.80	3	Vertical	244	2.78	-	28.30	4.42	-
PK	2.4988G	56.80	74.00	-17.20	23.85	3	Vertical	244	2.78	-	28.50	4.45	-
AV	2.4888G	45.55	54.00	-8.45	12.65	3	Vertical	244	2.78	-	28.46	4.44	-

BT-LE(1Mbps)

2440MHz_TX

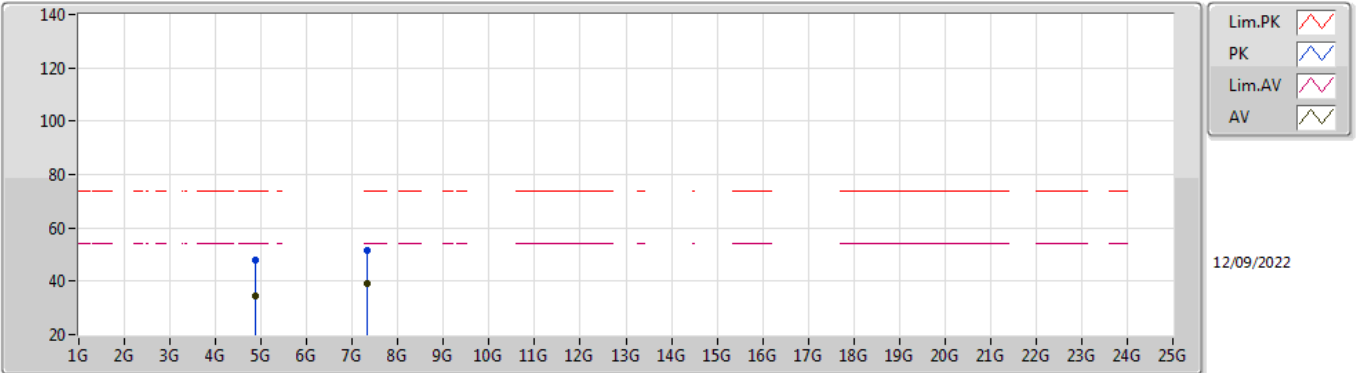


EUT_Z_1TX
Setting 20
03-D-K-5

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	2.3656G	57.65	74.00	-16.35	25.12	3	Horizontal	188	2.73	-	28.16	4.37	-
AV	2.3568G	45.45	54.00	-8.55	12.96	3	Horizontal	188	2.73	-	28.13	4.36	-
PK	2.4404G	114.14	Inf	-Inf	81.42	3	Horizontal	188	2.73	-	28.30	4.42	-
AV	2.44G	112.65	Inf	-Inf	79.93	3	Horizontal	188	2.73	-	28.30	4.42	-
PK	2.4932G	57.92	74.00	-16.08	25.00	3	Horizontal	188	2.73	-	28.47	4.45	-
AV	2.4908G	45.57	54.00	-8.43	12.66	3	Horizontal	188	2.73	-	28.46	4.45	-

BT-LE(1Mbps)

2440MHz_TX

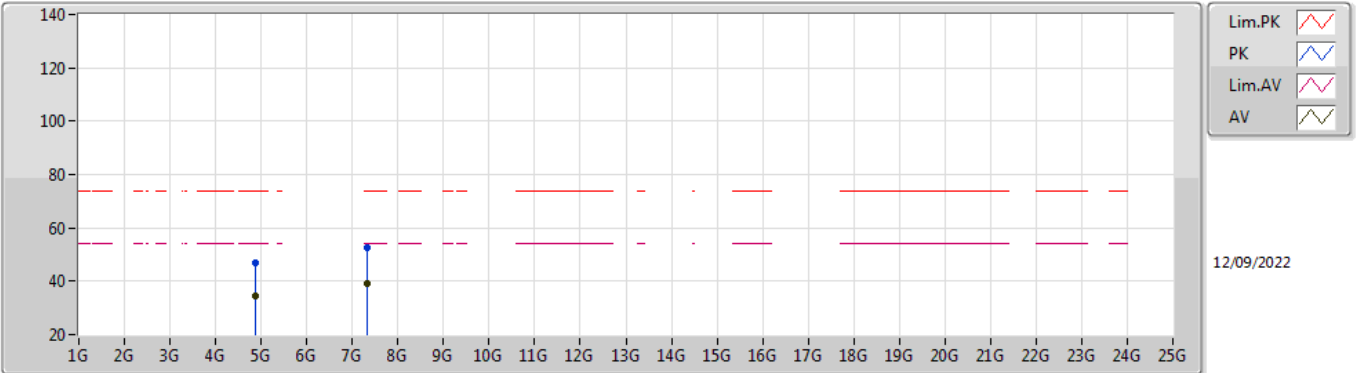


EUT_Z_1TX
Setting 20
03-D-K-5

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	4.88124G	47.85	74.00	-26.15	42.02	3	Vertical	224	1.33	-	33.62	7.10	34.89
AV	4.87464G	34.27	54.00	-19.73	28.47	3	Vertical	224	1.33	-	33.60	7.10	34.90
PK	7.32944G	51.80	74.00	-22.20	41.53	3	Vertical	334	2.70	-	36.96	8.46	35.15
AV	7.32976G	39.35	54.00	-14.65	29.08	3	Vertical	334	2.70	-	36.96	8.46	35.15

BT-LE(1Mbps)

2440MHz_TX

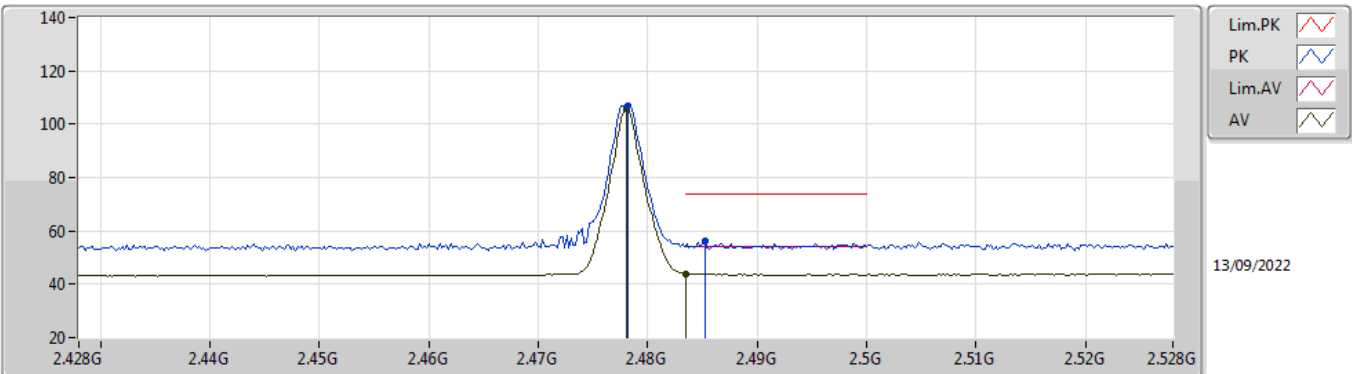


EUT_Z_1TX
Setting 20
03-D-K-5

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	4.87096G	47.07	74.00	-26.93	41.29	3	Horizontal	219	2.13	-	33.58	7.10	34.90	
AV	4.87444G	34.41	54.00	-19.59	28.61	3	Horizontal	219	2.13	-	33.60	7.10	34.90	
PK	7.31836G	52.49	74.00	-21.51	42.26	3	Horizontal	357	1.78	-	36.94	8.44	35.15	
AV	7.32752G	39.30	54.00	-14.70	29.03	3	Horizontal	357	1.78	-	36.96	8.46	35.15	

BT-LE(1Mbps)

2478MHz_TX

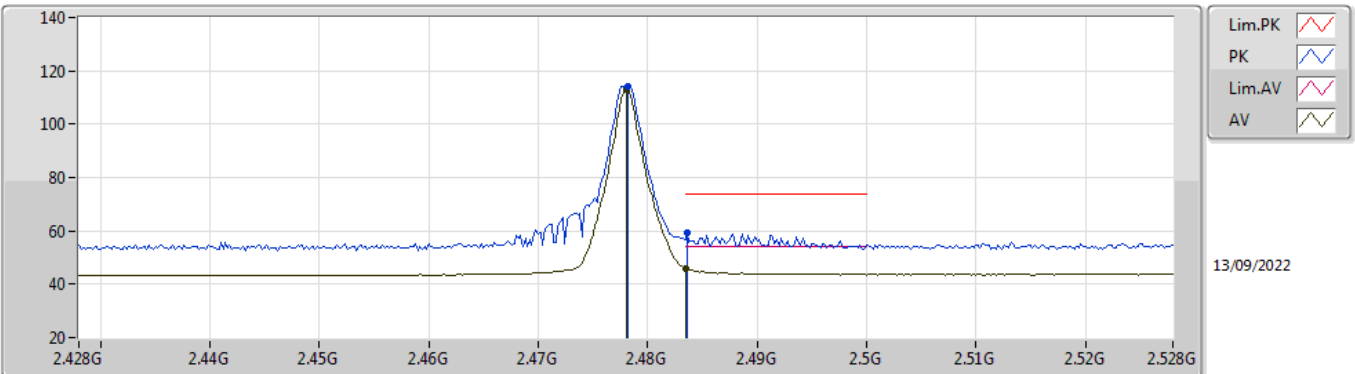


EUT_Z_1TX
Setting 20
01-A-K-5

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	2.4782G	107.05	Inf	-Inf	75.54	3	Vertical	254	2.72	-	27.67	3.84	-	
AV	2.478G	105.63	Inf	-Inf	74.12	3	Vertical	254	2.72	-	27.67	3.84	-	
PK	2.4852G	56.24	74.00	-17.76	24.69	3	Vertical	254	2.72	-	27.71	3.84	-	
AV	2.4835G	44.03	54.00	-9.97	12.49	3	Vertical	254	2.72	-	27.70	3.84	-	

BT-LE(1Mbps)

2478MHz_TX

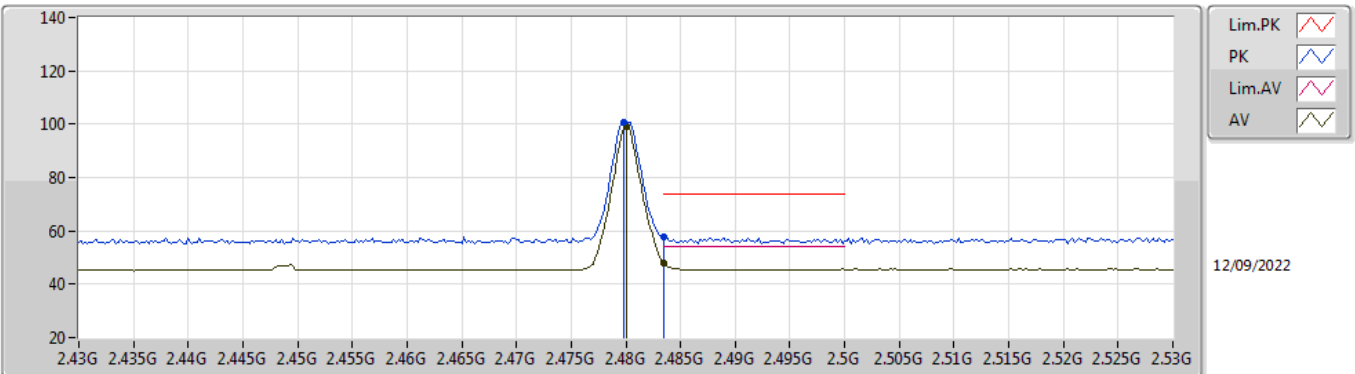


EUT_Z_1TX
Setting 20
01-A-K-5

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	2.4782G	114.37	Inf	-Inf	82.86	3	Horizontal	191	3.00	-	27.67	3.84	-	
AV	2.478G	112.91	Inf	-Inf	81.40	3	Horizontal	191	3.00	-	27.67	3.84	-	
PK	2.4836G	59.33	74.00	-14.67	27.79	3	Horizontal	191	3.00	-	27.70	3.84	-	
AV	2.4835G	45.89	54.00	-8.11	14.35	3	Horizontal	191	3.00	-	27.70	3.84	-	

BT-LE(1Mbps)

2480MHz_TX

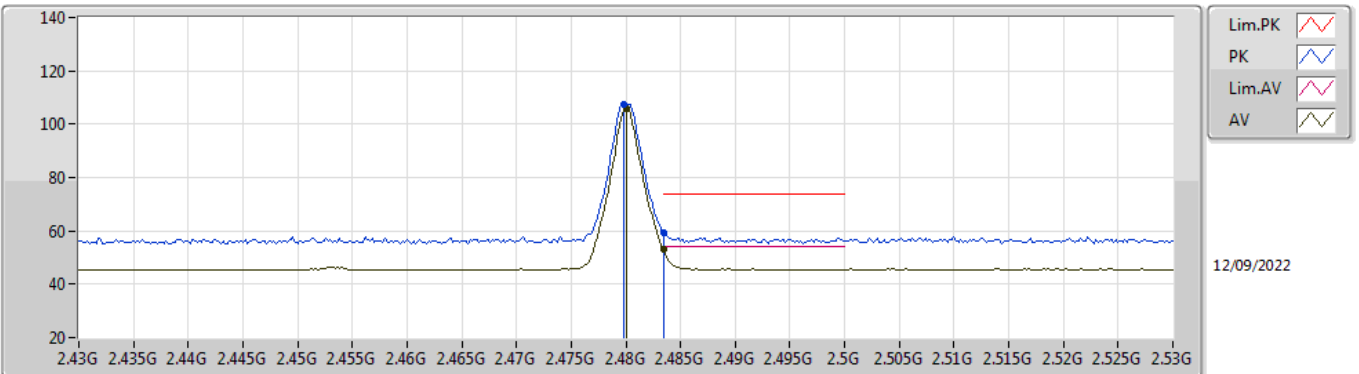


EUT_Z_1TX
Setting 3
03-D-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA	
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)	
PK	2.4798G	100.54	Inf	-Inf	67.68	3	Vertical	246	2.66	-	28.42	4.44	-	
AV	2.48G	99.06	Inf	-Inf	66.20	3	Vertical	246	2.66	-	28.42	4.44	-	
PK	2.4835G	57.58	74.00	-16.42	24.71	3	Vertical	246	2.66	-	28.43	4.44	-	
AV	2.4835G	48.10	54.00	-5.90	15.23	3	Vertical	246	2.66	-	28.43	4.44	-	

BT-LE(1Mbps)

2480MHz_TX

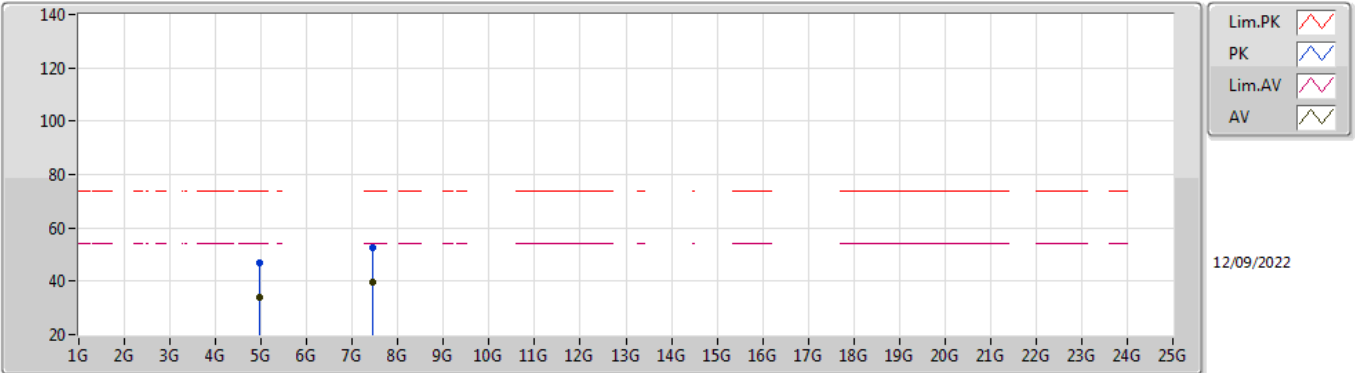


EUT_Z_1TX
Setting 3
03-D-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA	
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)	
PK	2.4798G	107.39	Inf	-Inf	74.53	3	Horizontal	186	2.96	-	28.42	4.44	-	
AV	2.48G	105.92	Inf	-Inf	73.06	3	Horizontal	186	2.96	-	28.42	4.44	-	
PK	2.4835G	59.51	74.00	-14.49	26.64	3	Horizontal	186	2.96	-	28.43	4.44	-	
AV	2.4835G	52.95	54.00	-1.05	20.08	3	Horizontal	186	2.96	-	28.43	4.44	-	

BT-LE(1Mbps)

2480MHz_TX

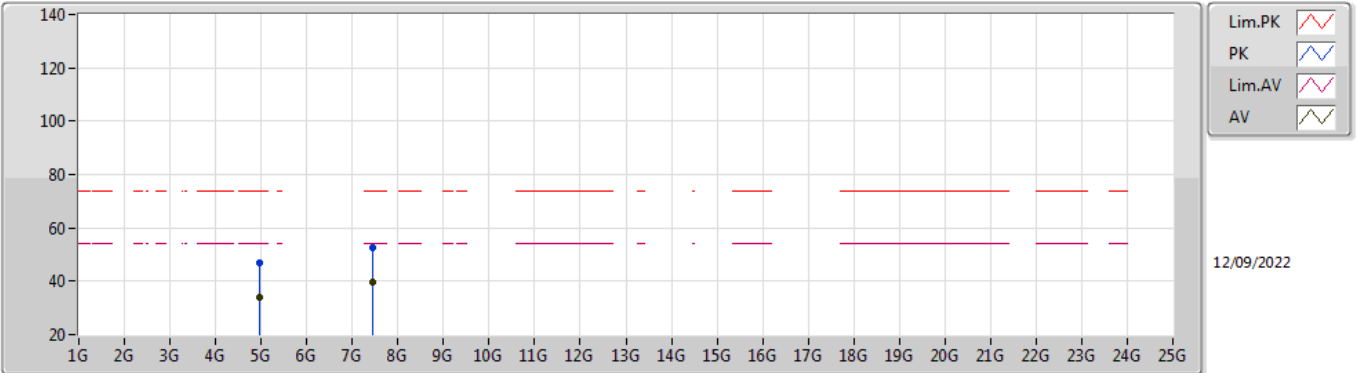


EUT_Z_1TX
Setting 3
03-D-K-5

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	4.9686G	47.08	74.00	-26.92	41.11	3	Vertical	109	2.74	-	33.76	7.10	34.89
AV	4.96264G	34.15	54.00	-19.85	28.17	3	Vertical	109	2.74	-	33.77	7.10	34.89
PK	7.44872G	52.47	74.00	-21.53	42.18	3	Vertical	51	1.37	-	36.90	8.60	35.21
AV	7.43932G	39.57	54.00	-14.43	29.25	3	Vertical	51	1.37	-	36.92	8.60	35.20

BT-LE(1Mbps)

2480MHz_TX

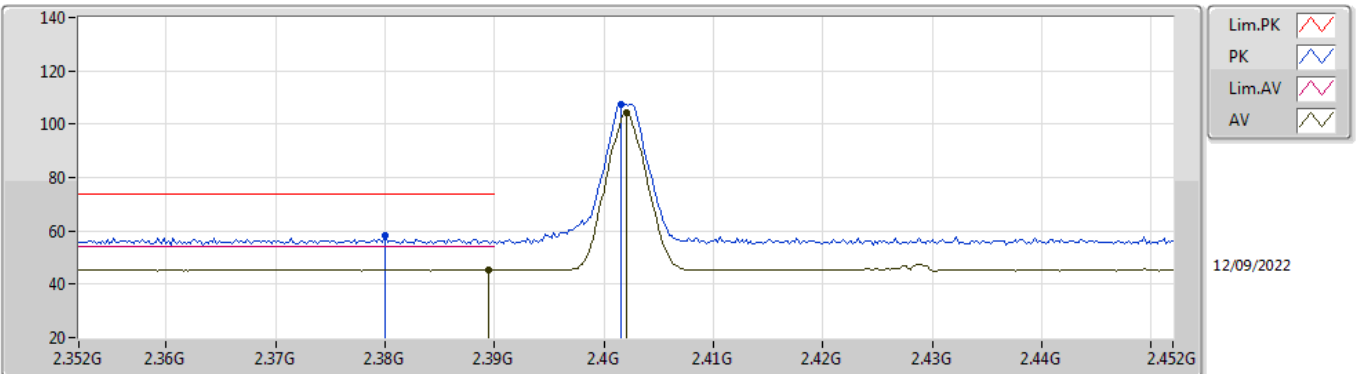


EUT_Z_1TX
Setting 3
03-D-K-5

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	4.96908G	46.95	74.00	-27.05	40.98	3	Horizontal	23	1.54	-	33.76	7.10	34.89
AV	4.96952G	34.04	54.00	-19.96	28.07	3	Horizontal	23	1.54	-	33.76	7.10	34.89
PK	7.44484G	52.61	74.00	-21.39	42.30	3	Horizontal	236	2.06	-	36.91	8.60	35.20
AV	7.4492G	39.71	54.00	-14.29	29.42	3	Horizontal	236	2.06	-	36.90	8.60	35.21

BT-LE(2Mbps)

2402MHz_TX

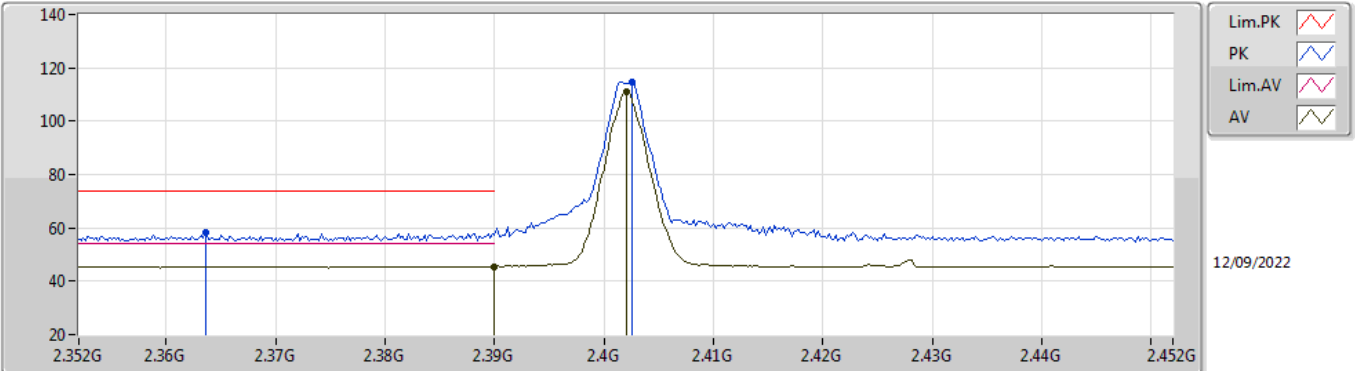


EUT_Z_1TX
Setting 20
03-D-K-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA	
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)	
PK	2.38G	58.40	74.00	-15.60	25.80	3	Vertical	256	2.88	-	28.22	4.38	-	
AV	2.3894G	45.46	54.00	-8.54	12.81	3	Vertical	256	2.88	-	28.26	4.39	-	
PK	2.4016G	107.66	Inf	-Inf	74.96	3	Vertical	256	2.88	-	28.30	4.40	-	
AV	2.402G	104.06	Inf	-Inf	71.36	3	Vertical	256	2.88	-	28.30	4.40	-	

BT-LE(2Mbps)

2402MHz_TX

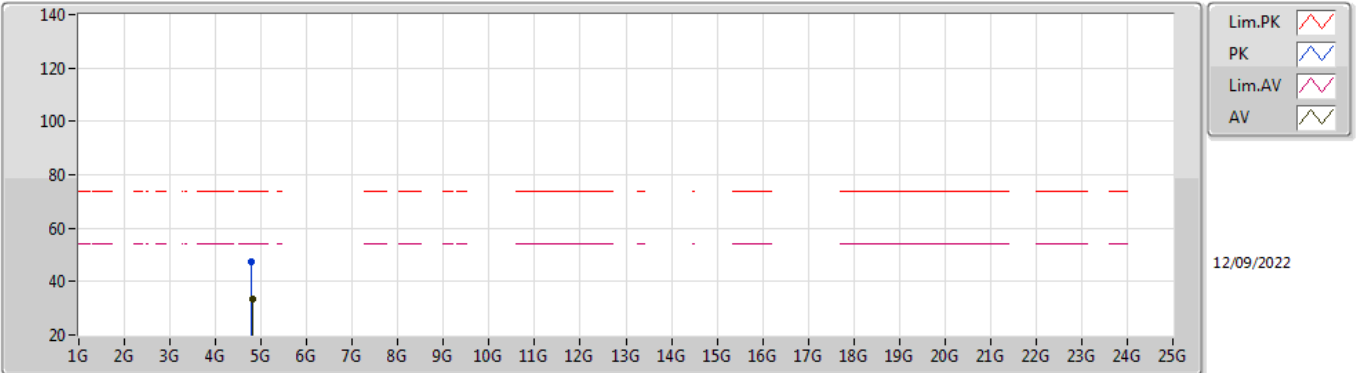


EUT_Z_1TX
Setting 20
03-D-K-5

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	2.3636G	58.18	74.00	-15.82	25.67	3	Horizontal	190	2.83	-	28.15	4.36	-	
AV	2.39G	45.59	54.00	-8.41	12.94	3	Horizontal	190	2.83	-	28.26	4.39	-	
PK	2.4026G	114.83	Inf	-Inf	82.13	3	Horizontal	190	2.83	-	28.30	4.40	-	
AV	2.402G	111.26	Inf	-Inf	78.56	3	Horizontal	190	2.83	-	28.30	4.40	-	

BT-LE(2Mbps)

2402MHz_TX

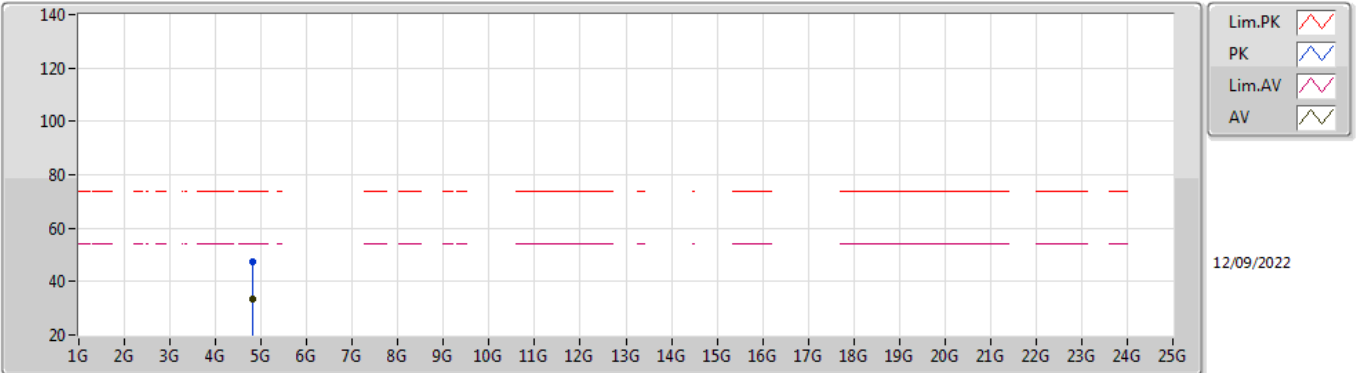


EUT_Z_1TX
Setting 20
03-D-K-5

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	4.79668G	47.17	74.00	-26.83	41.77	3	Vertical	274	1.65	-	33.21	7.09	34.90
AV	4.80676G	33.58	54.00	-20.42	28.14	3	Vertical	274	1.65	-	33.24	7.10	34.90

BT-LE(2Mbps)

2402MHz_TX

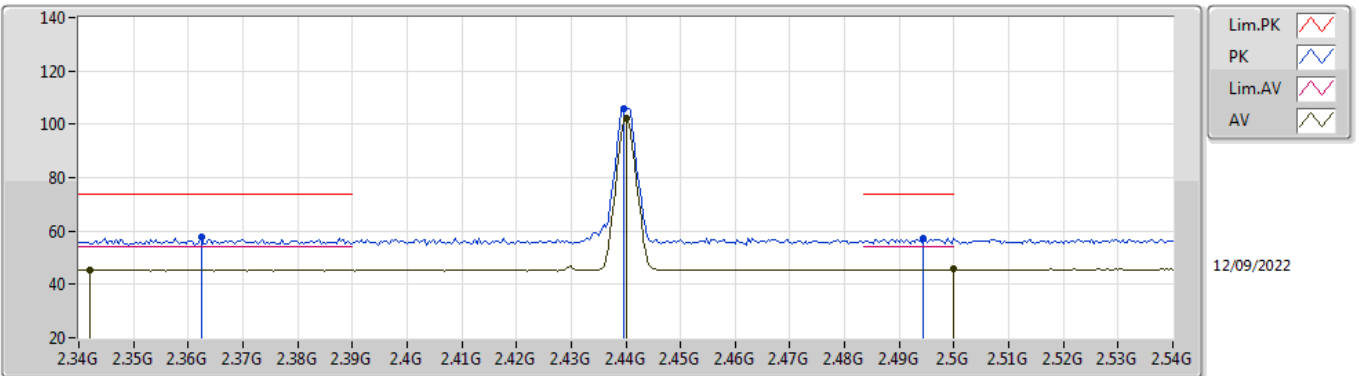


EUT_Z_1TX
Setting 20
03-D-K-5

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	4.80356G	47.42	74.00	-26.58	42.00	3	Horizontal	206	1.73	-	33.22	7.10	34.90
AV	4.80724G	33.60	54.00	-20.40	28.16	3	Horizontal	206	1.73	-	33.24	7.10	34.90

BT-LE(2Mbps)

2440MHz_TX

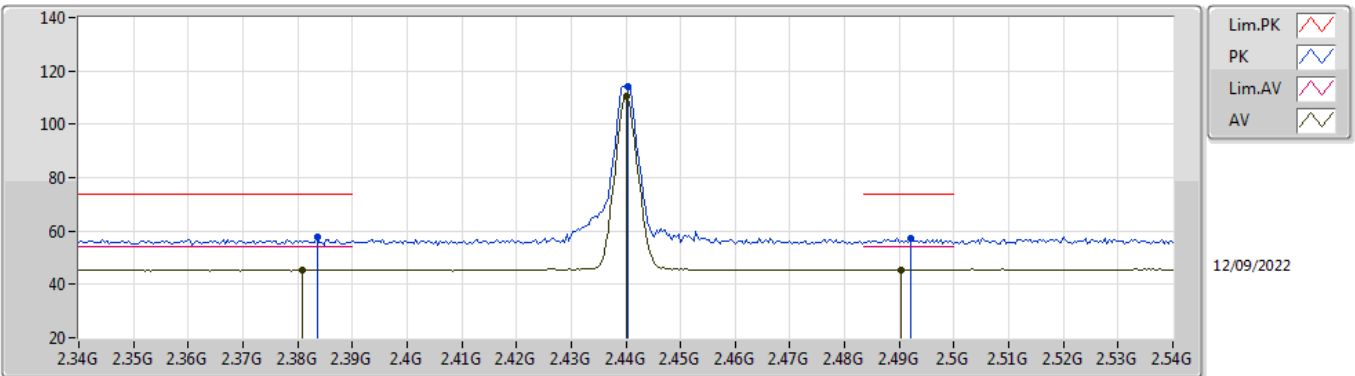


EUT_Z_1TX
Setting 20
03-D-K-5

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	2.3624G	57.77	74.00	-16.23	25.26	3	Vertical	261	2.55	-	28.15	4.36	-
AV	2.342G	45.36	54.00	-8.64	12.95	3	Vertical	261	2.55	-	28.07	4.34	-
PK	2.4396G	105.89	Inf	-Inf	73.17	3	Vertical	261	2.55	-	28.30	4.42	-
AV	2.44G	102.31	Inf	-Inf	69.59	3	Vertical	261	2.55	-	28.30	4.42	-
PK	2.4944G	57.37	74.00	-16.63	24.44	3	Vertical	261	2.55	-	28.48	4.45	-
AV	2.5G	45.63	54.00	-8.37	12.68	3	Vertical	261	2.55	-	28.50	4.45	-

BT-LE(2Mbps)

2440MHz_TX

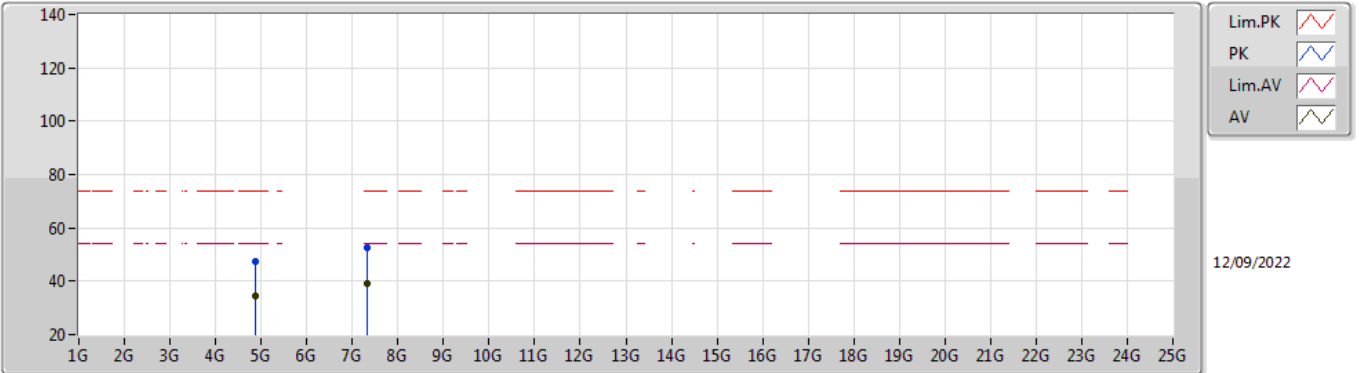


EUT_Z_1TX
Setting 20
03-D-K-5

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	2.3836G	57.84	74.00	-16.16	25.23	3	Horizontal	191	2.73	-	28.23	4.38	-
AV	2.3808G	45.45	54.00	-8.55	12.85	3	Horizontal	191	2.73	-	28.22	4.38	-
PK	2.4404G	114.19	Inf	-Inf	81.47	3	Horizontal	191	2.73	-	28.30	4.42	-
AV	2.44G	110.65	Inf	-Inf	77.93	3	Horizontal	191	2.73	-	28.30	4.42	-
PK	2.492G	57.42	74.00	-16.58	24.50	3	Horizontal	191	2.73	-	28.47	4.45	-
AV	2.4904G	45.60	54.00	-8.40	12.69	3	Horizontal	191	2.73	-	28.46	4.45	-

BT-LE(2Mbps)

2440MHz_TX

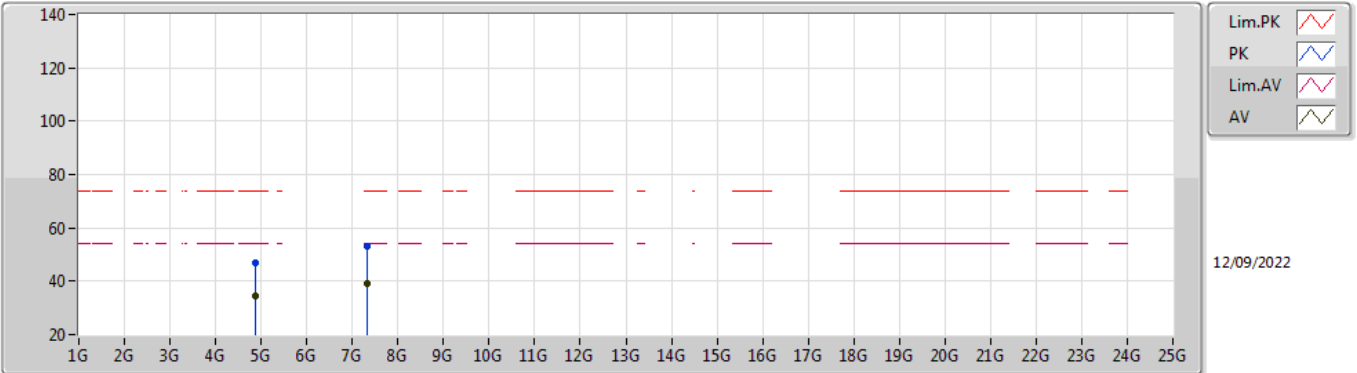


EUT_Z_1TX
Setting 20
03-D-K-5

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	4.87652G	47.24	74.00	-26.76	41.42	3	Vertical	116	2.47	-	33.61	7.10	34.89
AV	4.87444G	34.35	54.00	-19.65	28.55	3	Vertical	116	2.47	-	33.60	7.10	34.90
PK	7.3166G	52.34	74.00	-21.66	42.13	3	Vertical	184	1.21	-	36.93	8.43	35.15
AV	7.32212G	39.15	54.00	-14.85	28.92	3	Vertical	184	1.21	-	36.94	8.44	35.15

BT-LE(2Mbps)

2440MHz_TX

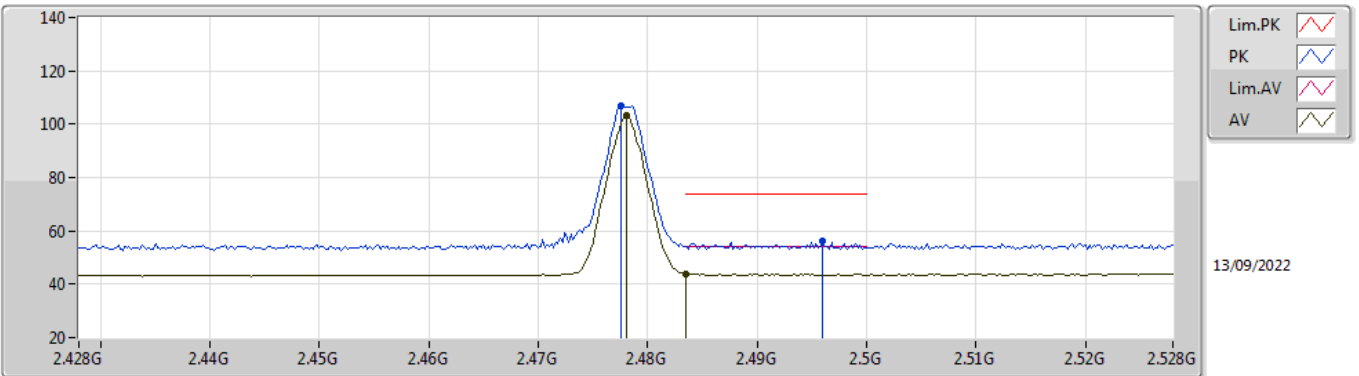


EUT_Z_1TX
Setting 20
03-D-K-5

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	4.88528G	47.08	74.00	-26.92	41.23	3	Horizontal	265	1.87	-	33.64	7.10	34.89
AV	4.87528G	34.38	54.00	-19.62	28.57	3	Horizontal	265	1.87	-	33.60	7.10	34.89
PK	7.31364G	53.25	74.00	-20.75	43.03	3	Horizontal	29	2.40	-	36.93	8.43	35.14
AV	7.32336G	39.32	54.00	-14.68	29.07	3	Horizontal	29	2.40	-	36.95	8.45	35.15

BT-LE(2Mbps)

2478MHz_TX

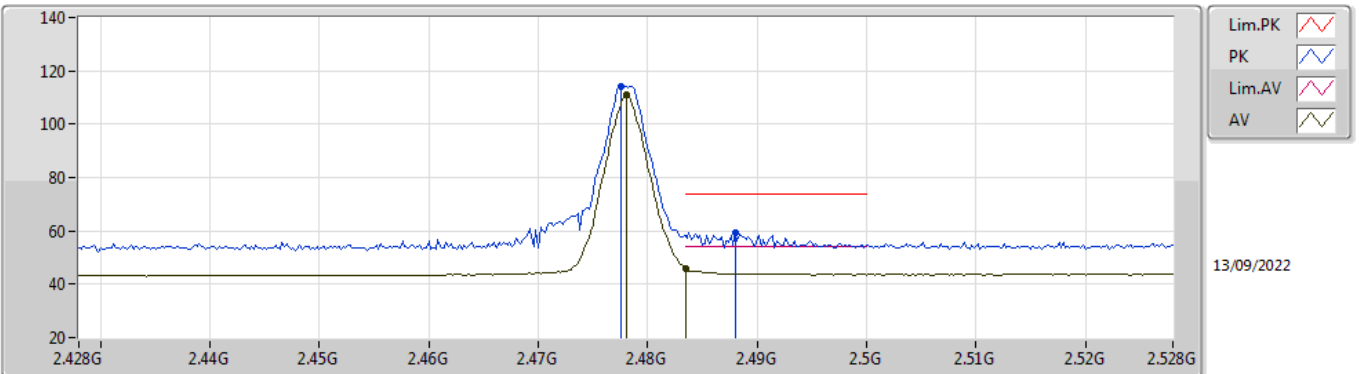


EUT_Z_1TX
Setting 20
01-A-K-5

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	2.4776G	106.77	Inf	-Inf	75.26	3	Vertical	254	2.80	-	27.67	3.84	-	
AV	2.478G	103.26	Inf	-Inf	71.75	3	Vertical	254	2.80	-	27.67	3.84	-	
PK	2.496G	56.21	74.00	-17.79	24.58	3	Vertical	254	2.80	-	27.78	3.85	-	
AV	2.4835G	43.91	54.00	-10.09	12.37	3	Vertical	254	2.80	-	27.70	3.84	-	

BT-LE(2Mbps)

2478MHz_TX

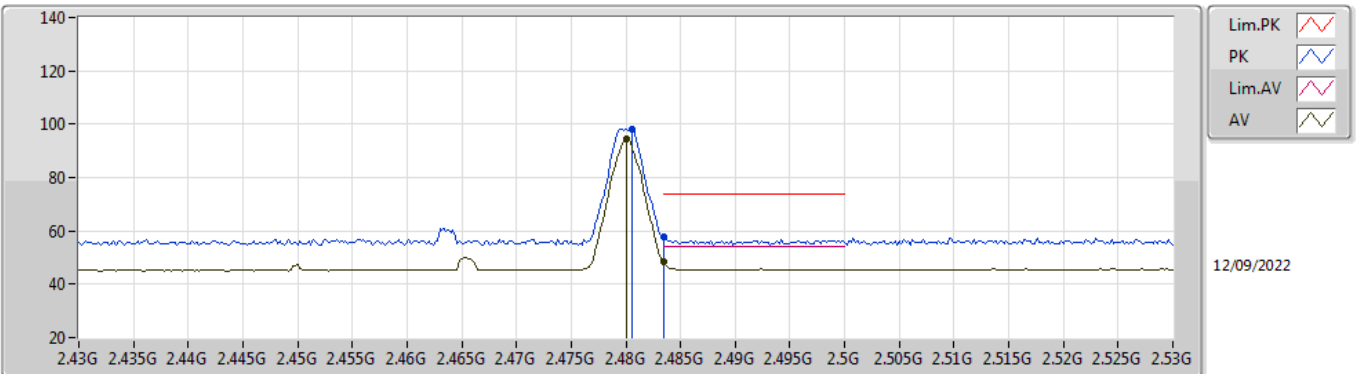


EUT_Z_1TX
Setting 20
01-A-K-5

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	2.4776G	114.36	Inf	-Inf	82.85	3	Horizontal	191	3.00	-	27.67	3.84	-	
AV	2.478G	110.84	Inf	-Inf	79.33	3	Horizontal	191	3.00	-	27.67	3.84	-	
PK	2.488G	59.38	74.00	-14.62	27.81	3	Horizontal	191	3.00	-	27.73	3.84	-	
AV	2.4835G	45.78	54.00	-8.22	14.24	3	Horizontal	191	3.00	-	27.70	3.84	-	

BT-LE(2Mbps)

2480MHz_TX

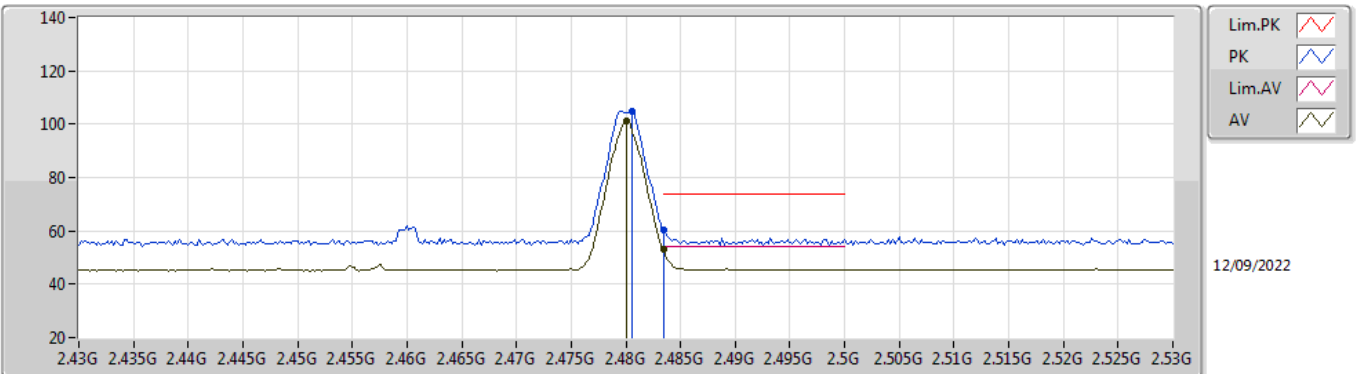


EUT_Z_1TX
Setting 0
03-D-K-5

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	2.4806G	98.32	Inf	-Inf	65.46	3	Vertical	242	2.66	-	28.42	4.44	-	
AV	2.48G	94.61	Inf	-Inf	61.75	3	Vertical	242	2.66	-	28.42	4.44	-	
PK	2.4835G	57.52	74.00	-16.48	24.65	3	Vertical	242	2.66	-	28.43	4.44	-	
AV	2.4835G	48.27	54.00	-5.73	15.40	3	Vertical	242	2.66	-	28.43	4.44	-	

BT-LE(2Mbps)

2480MHz_TX

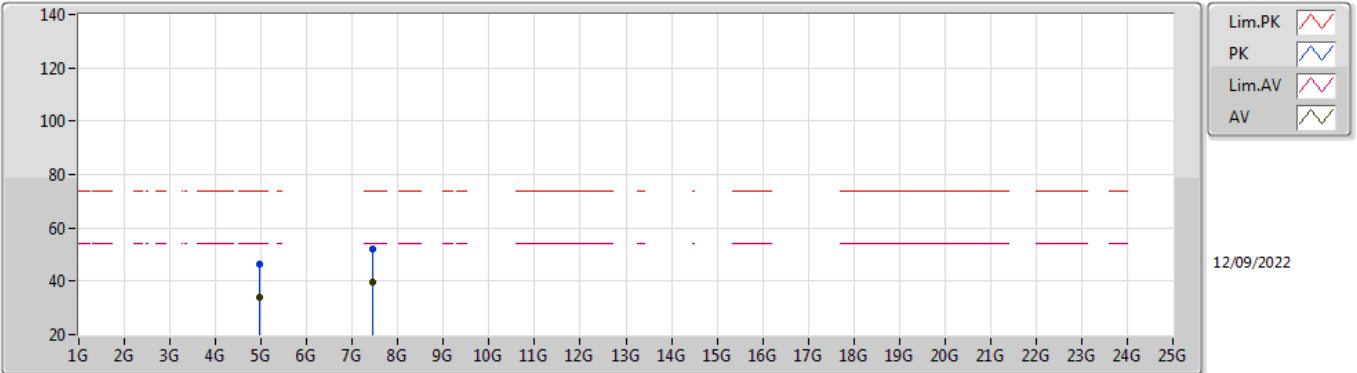


EUT_Z_1TX
Setting 0
03-D-K-5

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	2.4806G	104.79	Inf	-Inf	71.93	3	Horizontal	178	2.97	-	28.42	4.44	-
AV	2.48G	101.14	Inf	-Inf	68.28	3	Horizontal	178	2.97	-	28.42	4.44	-
PK	2.4835G	60.42	74.00	-13.58	27.55	3	Horizontal	178	2.97	-	28.43	4.44	-
AV	2.4835G	52.86	54.00	-1.14	19.99	3	Horizontal	178	2.97	-	28.43	4.44	-

BT-LE(2Mbps)

2480MHz_TX

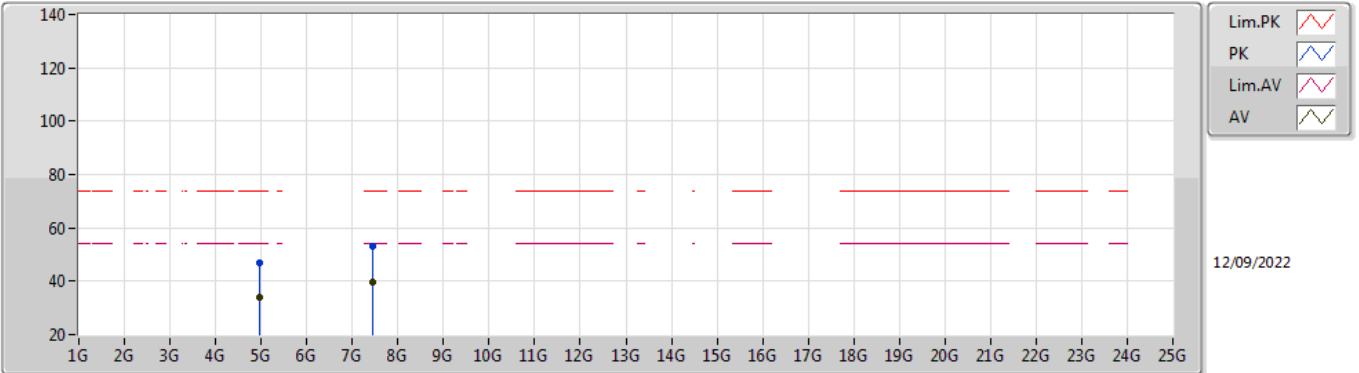


EUT_Z_1TX
Setting 0
03-D-K-5

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	4.95244G	46.50	74.00	-27.50	40.49	3	Vertical	281	2.11	-	33.80	7.10	34.89
AV	4.95172G	34.00	54.00	-20.00	27.99	3	Vertical	281	2.11	-	33.80	7.10	34.89
PK	7.44916G	52.27	74.00	-21.73	41.98	3	Vertical	200	1.15	-	36.90	8.60	35.21
AV	7.44176G	39.80	54.00	-14.20	29.48	3	Vertical	200	1.15	-	36.92	8.60	35.20

BT-LE(2Mbps)

2480MHz_TX



EUT_Z_1TX
Setting 0
03-D-K-5

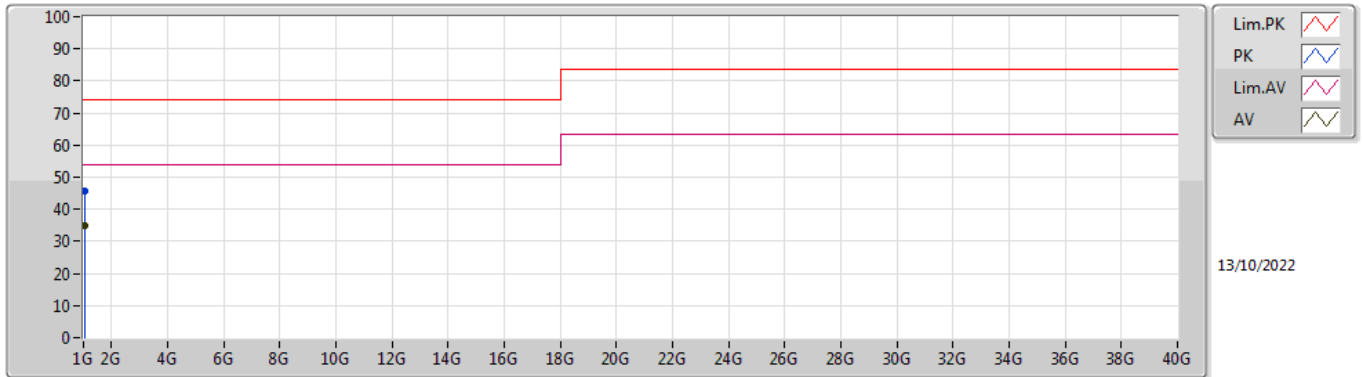
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.9638G	46.82	74.00	-27.18	40.84	3	Horizontal	34	2.89	-	33.77	7.10	34.89
AV	4.9534G	34.11	54.00	-19.89	28.11	3	Horizontal	34	2.89	-	33.79	7.10	34.89
PK	7.4396G	52.90	74.00	-21.10	42.58	3	Horizontal	49	1.26	-	36.92	8.60	35.20
AV	7.44904G	39.83	54.00	-14.17	29.54	3	Horizontal	49	1.26	-	36.90	8.60	35.21



Summary

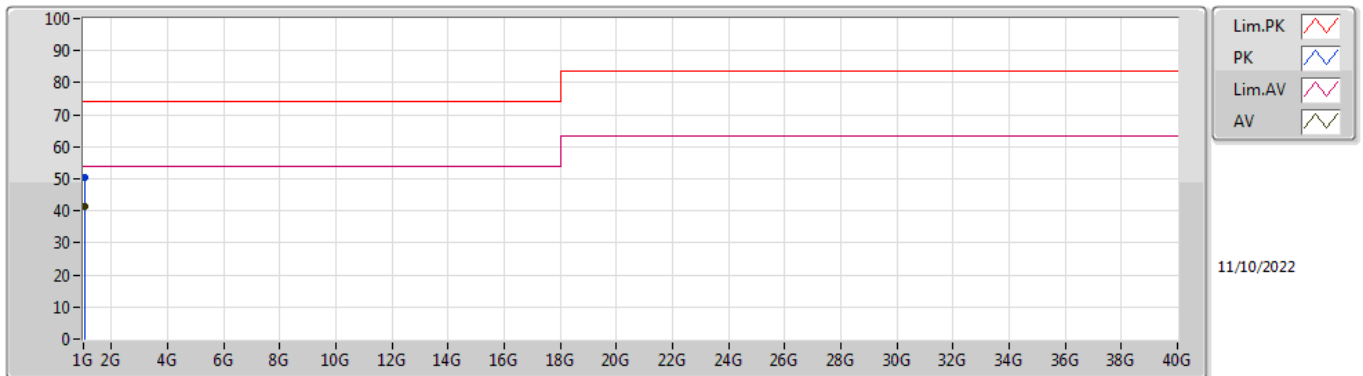
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 2	Pass	AV	1.04209G	41.32	54.00	-12.68	Horizontal

Mode 2



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	1.0395G	45.66	74.00	-28.34	-8.37	3	Vertical	309	1.69	-	54.03	25.17	2.86	36.40
AV	1.03979G	35.11	54.00	-18.89	-8.36	3	Vertical	309	1.69	"Worst"	43.47	25.18	2.86	36.40

Mode 2



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	1.03937G	50.49	74.00	-23.51	-8.37	3	Horizontal	327	1.73	-	58.86	25.17	2.86	36.40
AV	1.04209G	41.32	54.00	-12.68	-8.33	3	Horizontal	327	1.73	"Worst"	49.65	25.21	2.86	36.40