



RADIO TEST REPORT

FCC ID : TLZ-AM457-D
Equipment : IEEE 802.11 1X1 a/b/g/n Wireless LAN + Bluetooth 5.1 Combo LGA Module
Brand Name : AzureWave
Model Name : AW-AM457-D
Applicant : AzureWave Technologies, Inc.
8F., No.94, Baozhong Rd. , Xindian Dist., New Taipei City , Taiwan 231
Manufacturer : AzureWave Technologies, Inc.
8F., No.94, Baozhong Rd. , Xindian Dist., New Taipei City , Taiwan 231
Standard : 47 CFR FCC Part 15.247

The product was received on Dec. 26, 2020, and testing was started from Dec. 26, 2020 and completed on Feb. 23, 2021. 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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Appendix G. Test Results of Emissions in Restricted Frequency Bands



Appendix H. Test Photos

Photographs of EUT v01



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)	20dB Bandwidth	PASS	-
3.2	15.247(a)	Carrier Frequency Separation	PASS	-
3.3	15.247(b)	Maximum Conducted Output Power	PASS	-
3.4	15.247(a)	Number of Hopping Frequencies and Hopping Band edge	PASS	-
3.5	15.247(a)	Time of Occupancy (Dwell Time)	PASS	-
3.6	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
3.7	15.247(d)	Emissions in Restricted Frequency Bands	PASS	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

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: Wendy Pan



1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	Bluetooth Version	Ch. Frequency (MHz)	Channel Number
2400-2483.5	BR / EDR	2402-2480	0-78 [79]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	BT-BR(1Mbps)	1	1TX
2.4-2.4835GHz	BT-EDR(2Mbps)	1	1TX
2.4-2.4835GHz	BT-EDR(3Mbps)	1	1TX

Note:

- ◆ Bluetooth BR uses a GFSK (1Mbps).
- ◆ Bluetooth EDR uses a combination of $\pi/4$ -DQPSK (2Mbps) and 8DPSK (3Mbps).
- ◆ Bluetooth BR/EDR uses as a system using FHSS modulation.
- ◆ BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	1	Molex	1461531050	Dipole	I-PEX	Note 1
Ant.	Port	Brand Holder	Model Name	Antenna Type	Connector	Gain (dBi)
2	1	MAG. LAYERS SCIENTIFIC-TECHNICAL CO., LTD	MSA-4008-25GC1-A2	PIFA	I-PEX	Note 1

Note1:

Ant.	Antenna Gain (dBi)		
	WLAN 2.4GHz	WLAN 5GHz	Bluetooth
1	3.2	4.25	3.2
2	2.98	5.16	2.98

Note2: The above information was declared by manufacturer.

For conducted test, only the highest antenna gain has been tested and recorded in the test report. For AC Power-line Conducted Emissions and radiated test, Ant.1 ~ Ant.2 antenna has been tested and recorded in the test report.

The EUT has two sets of antenna type and there are two antennas for each set and on the EUT has two antenna connectors and support different functions separately, one port is WLAN function and the other port is bluetooth function.

**1.1.3 Mode Test Duty Cycle**

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
BT-BR(1Mbps)	0.785	1.05	2.89m	1k
BT-EDR(2Mbps)	0.784	1.06	2.888m	1k
BT-EDR(3Mbps)	0.785	1.05	2.888m	1k

Note:

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

1.1.4 EUT Operational Condition

EUT Power Type	From host system
Test Software Version	DutApiSisoBt V1.0.0.09

1.1.5 Table for Multiple Listing

The difference for each EUT is shown as below:

Model Name	EUT	Diplexer Brand	Low power filter Brand
AW-AM457-D	EUT 1	Murata	Murata
	EUT 2	Murata	Walsin
	EUT 3	Walsin	Murata
	EUT 4	Walsin	Walsin



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

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.
	Test site registered number IC 4086D with Industry Canada.

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH03-CB	Jeff Wu	23.3-23.8 / 46-47	Jan. 16, 2021 ~ Jan. 27, 2021
Radiated<1GHz	03CH05-CB	Cola Fan	20.4-21.4 / 55-57	Feb. 09, 2021
Radiated>1GHz	03CH02-CB	Lance Wu	22.3-23.6 / 56-58	Dec. 26, 2020 ~ Feb. 18, 2021
AC Conduction	CO01-CB	Max Lin	22~23 / 56~57	Feb. 23, 2021



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)	2.0 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	3.8 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.6 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	5.0 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.9 dB	Confidence levels of 95%
Conducted Emission	2.8 dB	Confidence levels of 95%
Output Power Measurement	1.4 dB	Confidence levels of 95%
Power Density Measurement	2.8 dB	Confidence levels of 95%
Bandwidth Measurement	0.4%	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
BT-BR(1Mbps)	-
2402MHz	4
2440MHz	4
2480MHz	4
BT-EDR(2Mbps)	-
2402MHz	7
2440MHz	7
2480MHz	7
BT-EDR(3Mbps)	-
2402MHz	7
2440MHz	7
2480MHz	7



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
Operating Mode	Normal Link
1	EUT 1 + WLAN 2.4GHz + Bluetooth + Dipole antenna
2	EUT 1 + WLAN 5GHz + Bluetooth + Dipole antenna
Mode 1 has been evaluated to be the worst case between Mode 1~2, thus measurement for Mode 3 ~ 5 will follow this same test mode.	
3	EUT 2 + WLAN 2.4GHz + Bluetooth + Dipole antenna
4	EUT 3 + WLAN 2.4GHz + Bluetooth + Dipole antenna
5	EUT 4 + WLAN 2.4GHz + Bluetooth + Dipole antenna
Mode 1 has been evaluated to be the worst case among Mode 1~5, thus measurement for Mode 6 will follow this same test mode.	
6	EUT 1 + WLAN 2.4GHz + Bluetooth + PIFA antenna
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	20dB Bandwidth Carrier Frequency Separation Maximum Conducted Output Power Number of Hopping Frequencies Hopping Bandedge Time of Occupancy (Dwell Time) Emissions in Non-restricted Frequency Bands
Test Condition	Conducted measurement at transmit chains The EUT 4 has been evaluated to be the worst-case from EUT 1~EUT 4. Therefore, the EUT 4 has selected to test.
1	EUT 4 + Ant.1



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 1 in Z axis + WLAN 2.4GHz + Bluetooth + Dipole antenna
2	EUT 1 in Y axis + WLAN 2.4GHz + Bluetooth + Dipole antenna
Mode 2 has been evaluated to be the worst case between Mode 1~2, thus measurement for Mode 3 will follow this same test mode.	
3	EUT 1 in Y axis + WLAN 5GHz + Bluetooth + Dipole antenna
Mode 2 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 2 in Y axis + WLAN 2.4GHz + Bluetooth + Dipole antenna
5	EUT 3 in Y axis + WLAN 2.4GHz + Bluetooth + Dipole antenna
6	EUT 4 in Y axis + WLAN 2.4GHz + Bluetooth + Dipole antenna
Mode 4 has been evaluated to be the worst case among Mode 1~6, thus measurement for Mode 7 will follow this same test mode.	
7	EUT 2 in Y axis + WLAN 2.4GHz + Bluetooth + PIFA antenna
For operating mode 4 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
	The EUT 4 has been evaluated to be the worst-case from EUT 1~EUT 4. Therefore, the EUT 4 has selected to test. The EUT 4 was performed at X axis, Y axis and Z axis position, and the worst case as below:
1	EUT 4 + Ant.1 (Bandedge at Z axis / Radiated emission at X axis)
2	EUT 4 + Ant.2 (Bandedge at X axis / Radiated emission at Y axis)

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	Bluetooth + WLAN 2.4GHz
2	Bluetooth + WLAN 5GHz
Refer to Sporton Test Report No.: FA0D1814 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:

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	NB	DELL	E6430	N/A
B	Fixture	AzureWave	AW2457-15	N/A
C	AP Router	ASUS	RP-N53	N/A
D	Earphone	SHYARO CHI	MIC-04	N/A
E	Mouse	HP	FM100	N/A
F	iPad	Apple	A1430	BCGA1430
G	AP Router NB	DELL	E6430	N/A

For Radiated (below 1GHz):

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	Notebook	DELL	E4300	N/A
C	WLAN AP	D-LINK	DIR860L	KA2IR860LA1
D	iPad	Apple	A1430	BCGA1430
E	Earphone	SHYARO CHI	MIC-04	N/A
F	Mouse	Logitech	M-U0026	N/A
G	Fixture	AzureWave	AW2457-15	N/A



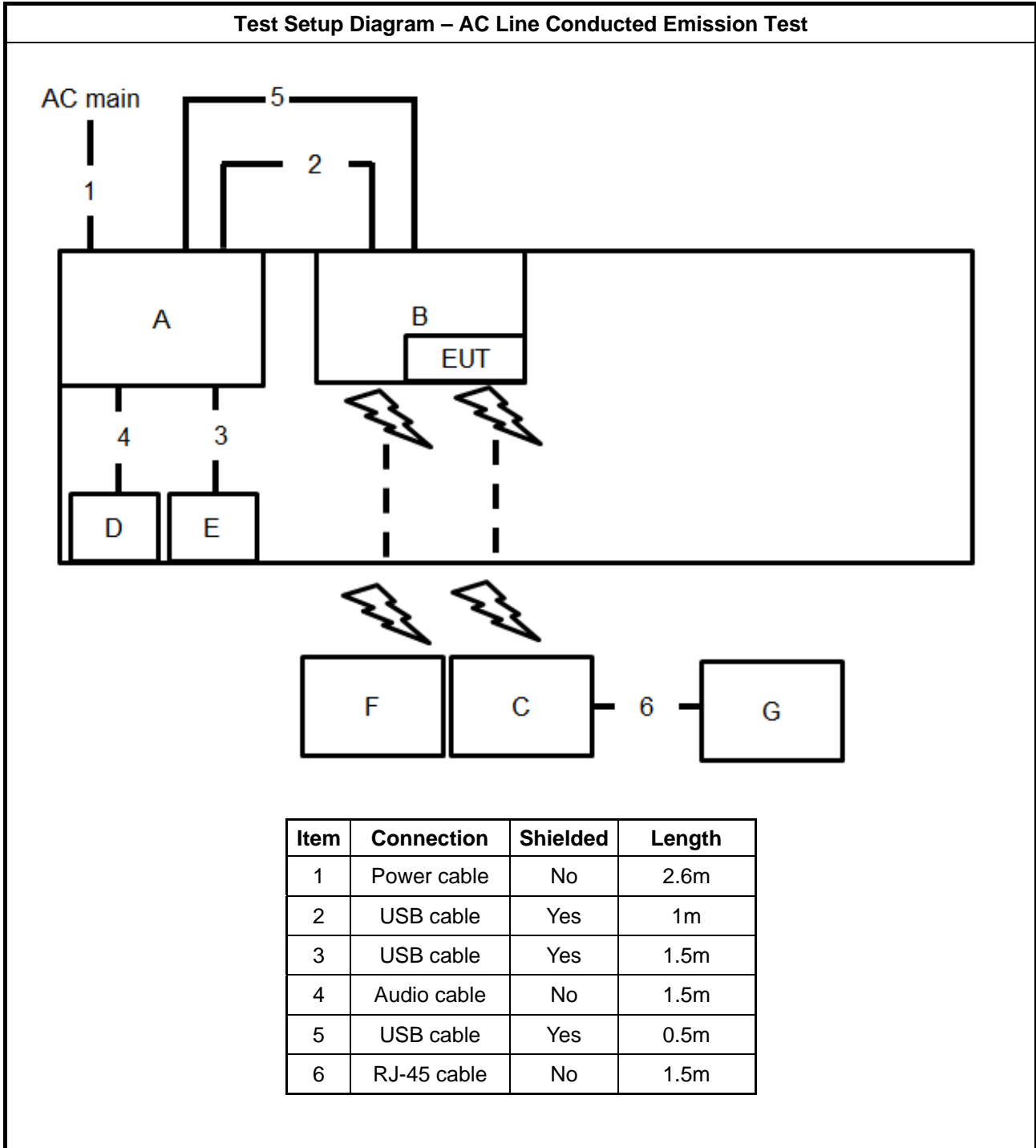
For Radiated (above 1GHz):

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Fixture	AzureWave	AW2457-15	N/A
B	Notebook	DELL	E4300	N/A
C	Notebook	DELL	E4300	N/A

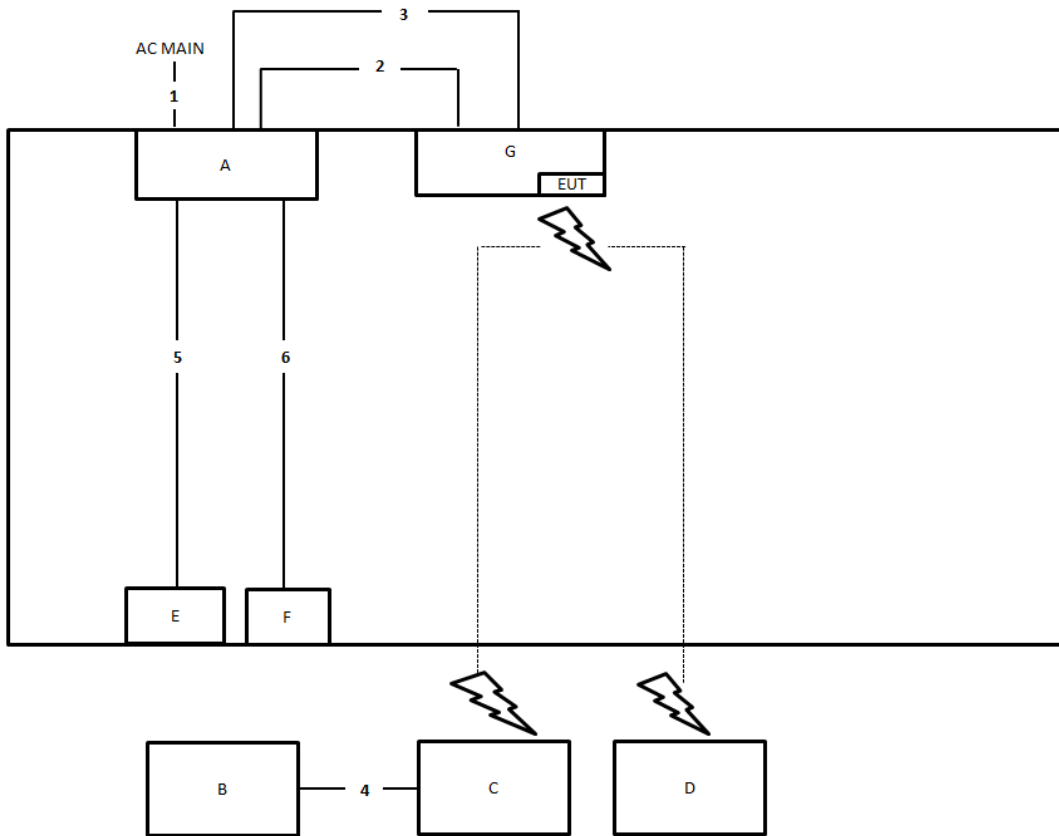
For RF Conducted:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	Notebook	DELL	E4300	N/A
C	Fixture	AzureWave	AW2457-15	N/A

2.6 Test Setup Diagram

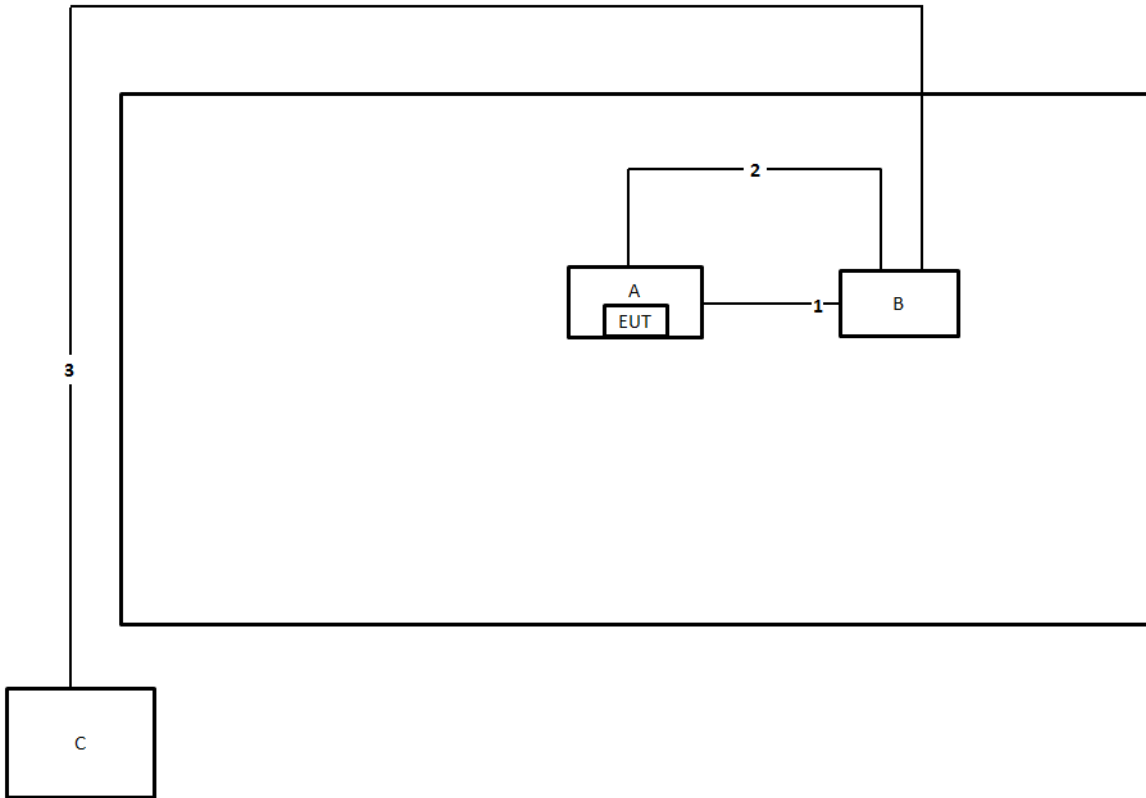


Test Setup Diagram - Radiated Test < 1GHz



Item	Connection	Shielded	Length
1	Power cable	No	2.6m
2	USB cable	Yes	0.5m
3	USB cable	Yes	1m
4	RJ-45 cable	No	1.5m
5	Audio cable	No	1.2m
6	USB cable	Yes	1.8m

Test Setup Diagram - Radiated Test > 1GHz



Item	Connection	Shielded	Length
1	USB cable	Yes	0.5m
2	USB cable	Yes	1m
3	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.

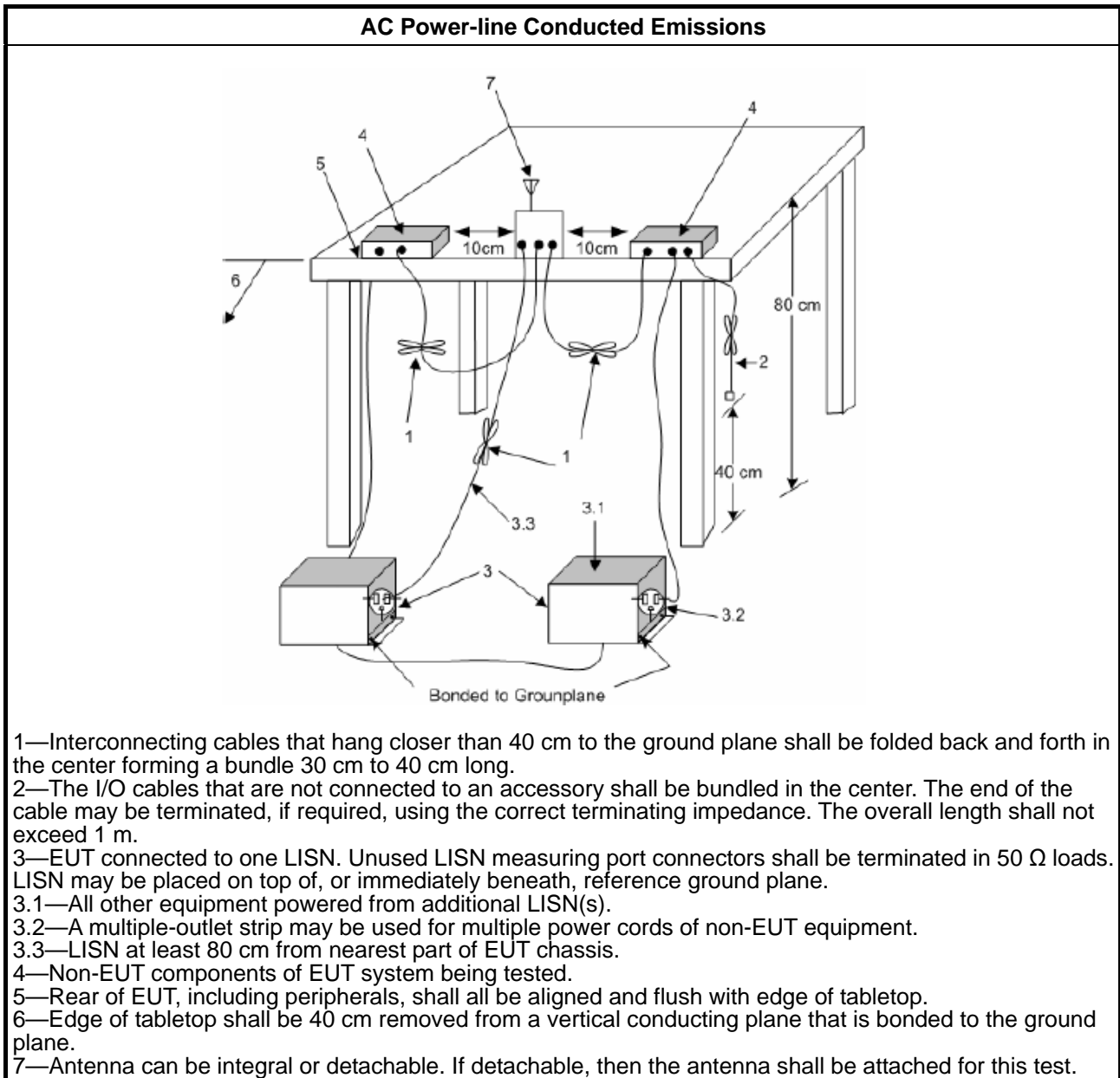
3.1.2 Measuring Instruments

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 20dB Bandwidth and Carrier Frequency Separation

3.2.1 20dB Bandwidth and Carrier Frequency Separation Limit

20dB Bandwidth and Carrier Frequency Separation Limit for Frequency Hopping Systems	
▪ 902-928 MHz Band:	
	▪ $N \geq 50$ and $ChS \geq \text{MAX}$ (20 dB bandwidth, 25 kHz); 20 dB bandwidth \leq 250 kHz.
	▪ $50 > N \geq 25$ and $ChS \geq \text{MAX}$ (20 dB bandwidth, 25 kHz); 20 dB bandwidth $>$ 250 kHz.
▪ 2400-2483.5 MHz Band:	
	▪ $N \geq 75$ and $ChS \geq \text{MAX}$ (20 dB bandwidth, 25 kHz).
	▪ $75 > N \geq 15$ and $ChS \geq \text{MAX}$ (20 dB bandwidth 2/3, 25 kHz).
▪ 5725-5850 MHz Band:	
	▪ $N \geq 75$ and $ChS \geq \text{MAX}$ (20 dB bandwidth, 25 kHz); 20 dB bandwidth \leq 1 MHz.
N: Number of Hopping Frequencies; ChS: Hopping Channel Separation	

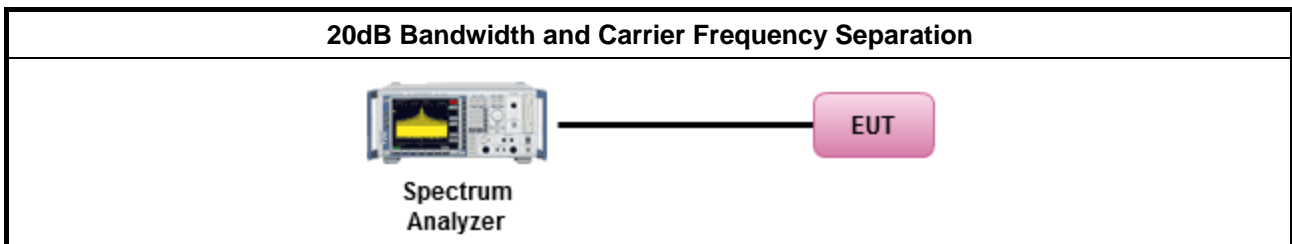
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method
▪ Refer as ANSI C63.10-2013, clause 6.9.1 for 20 dB bandwidth measurement.
▪ Refer as ANSI C63.10-2013, clause 7.8.2 for carrier frequency separation measurement.

3.2.4 Test Setup



3.2.5 Test Result of 20dB Bandwidth

Refer as Appendix B

3.2.6 Test Result of Carrier Frequency Separation

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
▪ 902-928 MHz Band:	
▪ N ≥ 50; Power 30dBm; EIRP 36dBm	
▪ 50 > N ≥ 25; Power 23.98dBm; EIRP 29.98dBm	
▪ 2400-2483.5 MHz Band:	
▪ N ≥ 75; Power 30dBm; EIRP 36dBm	
▪ 75 > N ≥ 15; Power 21dBm; EIRP 27dBm	
▪ 5725-5850 MHz Band:	
▪ N ≥ 75; Power 30dBm; EIRP 36dBm	
N: Number of Hopping Frequencies	

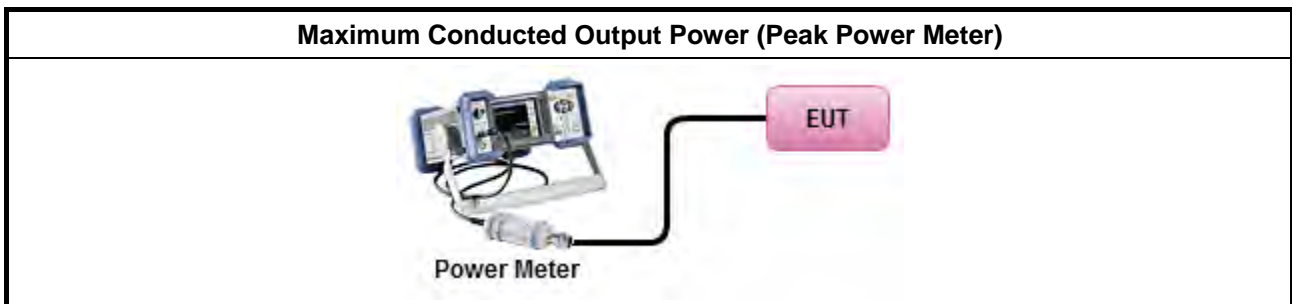
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method
▪ Refer as ANSI C63.10-2013, clause 7.8.5 for output power measurement.

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Number of Hopping Frequencies and Hopping Bandedge

3.4.1 Number of Hopping Frequencies Limit

Number of Hopping Frequencies Limit	
▪	902-928 MHz Band:
	▪ $N \geq 50$ and $ChS \geq MAX$ (20 dB bandwidth, 25 kHz); 20 dB bandwidth \leq 250 kHz.
	▪ $50 > N \geq 25$ and $ChS \geq MAX$ (20 dB bandwidth, 25 kHz); 20 dB bandwidth $>$ 250 kHz.
▪	2400-2483.5 MHz Band:
	▪ $N \geq 75$ and $ChS \geq MAX$ (20 dB bandwidth, 25 kHz).
	▪ $75 > N \geq 15$ and $ChS \geq MAX$ (20 dB bandwidth 2/3, 25 kHz).
▪	5725-5850 MHz Band:
	▪ $N \geq 75$ and $ChS \geq MAX$ (20 dB bandwidth, 25 kHz); 20 dB bandwidth \leq 1 MHz.
N: Number of Hopping Frequencies; ChS : Hopping Channel Separation	

3.4.2 Hopping Bandedge Limit

Refer clause 3.6.1 and clause 3.7.1

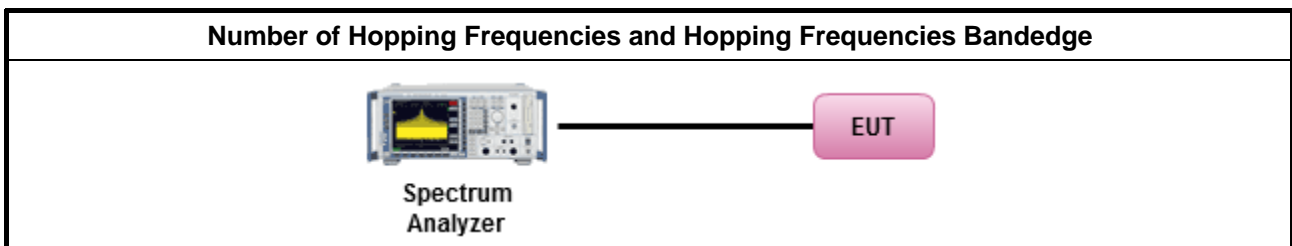
3.4.3 Measuring Instruments

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

3.4.4 Test Procedures

Test Method
▪ Refer as ANSI C63.10-2013, clause 7.8.3 for number of hopping frequencies measurement.
▪ Refer as ANSI C63.10-2013, clause 7.8.6 for hopping frequencies Bandedge measurement.

3.4.5 Test Setup



3.4.6 Test Result of Number of Hopping Frequencies

Refer as Appendix D

3.4.7 Test Result of Number of Hopping Frequencies Bandedge

Refer as Appendix D

3.5 Time of Occupancy (Dwell Time)

3.5.1 Time of Occupancy (Dwell Time) Limit

20dB Bandwidth and Carrier Frequency Separation Limit for Frequency Hopping Systems	
▪ 902-928 MHz Band:	
	▪ $N \geq 50$; 0.4s in 20s period
	▪ $50 > N \geq 25$; 0.4s in 10s period
▪ 2400-2483.5 MHz Band:	
	▪ $N \geq 75$; 0.4s in $N \times 0.4$ period
	▪ $75 > N \geq 15$; 0.4s in $N \times 0.4$ period
▪ 5725-5850 MHz Band:	
	▪ $N \geq 75$; 0.4s in 30s period
N: Number of Hopping Frequencies	

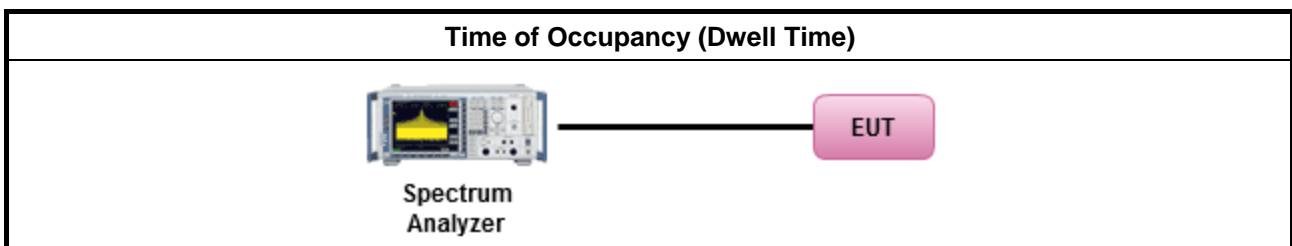
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method	
▪ Refer as ANSI C63.10-2013, clause 7.8.4 for dwell time measurement.	
▪ Bluetooth ACL packets can be 1, 3, or 5 time slots. Following as dwell time. Operate DH5 at maximum dwell time and maximum duty cycle.	
	▪ The DH5 packet can cover up to 5 time slots. Operate DH5 at maximum dwell time and maximum duty cycle. A maximum length packet has duration of 5 time slots. The hopping rate is 1600 hops/second so the maximum dwell time is $5/1600$ seconds, or 3.125ms. DH5 Packet permit maximum $1600 / 79 / 6 = 3.37$ hops per second in each channel.

3.5.4 Test Setup



3.5.5 Test Result of Time of Occupancy (Dwell Time)

Refer as Appendix E

3.6 Emissions in Non-restricted Frequency Bands

3.6.1 Emissions in Non-restricted Frequency Bands Limit

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

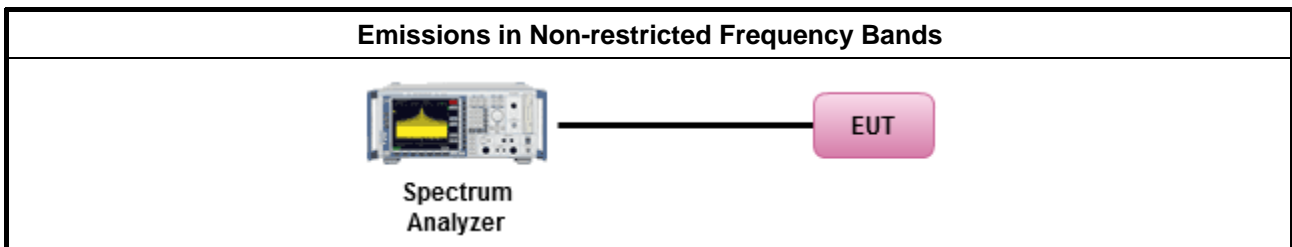
3.6.2 Measuring Instruments

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"> Refer as ANSI C63.10-2013, clause 7.8.8 for unwanted emissions into non-restricted bands.

3.6.4 Test Setup



3.6.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix F



3.7 Emissions in Restricted Frequency Bands

3.7.1 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.

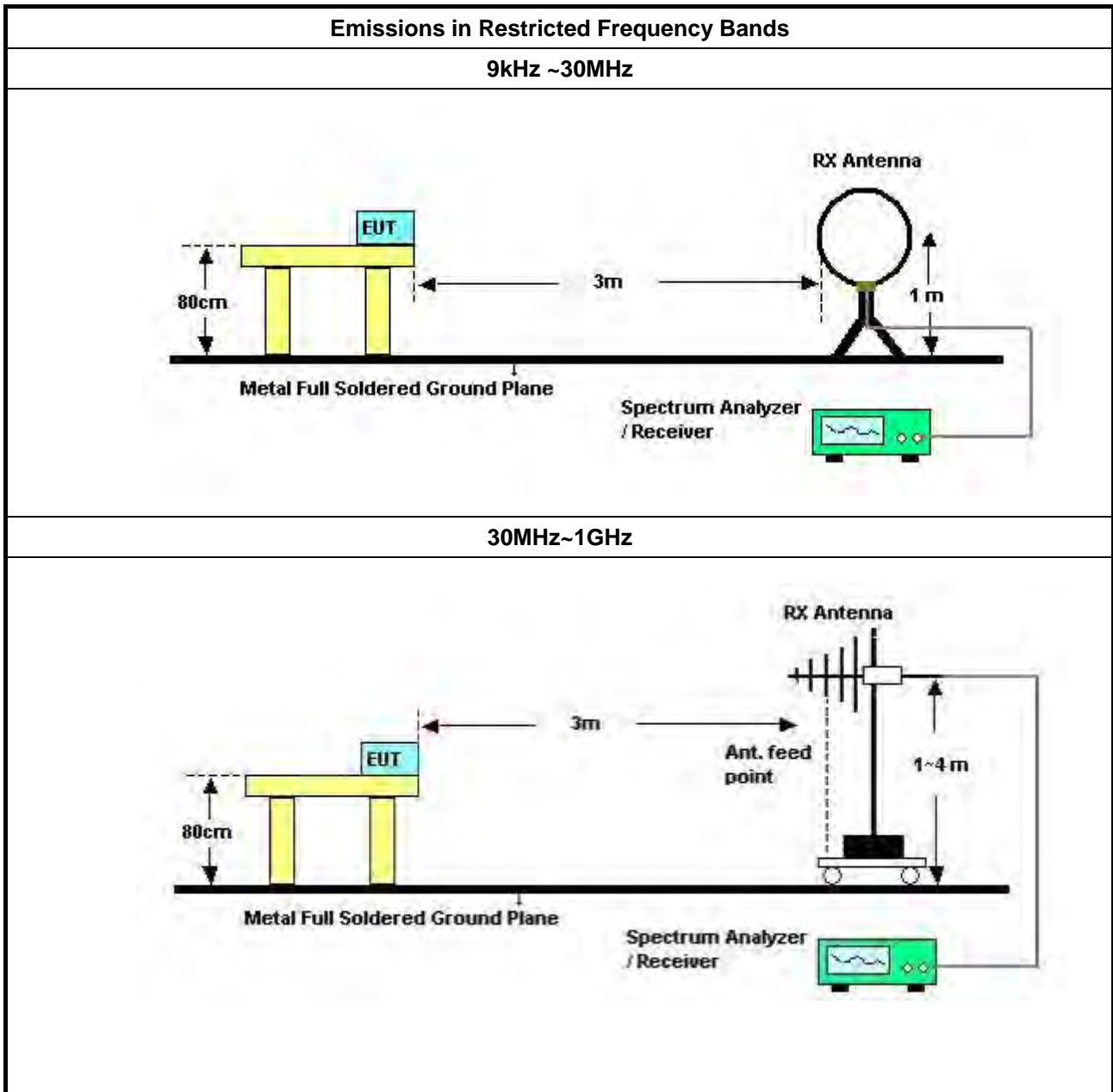
3.7.2 Measuring Instruments

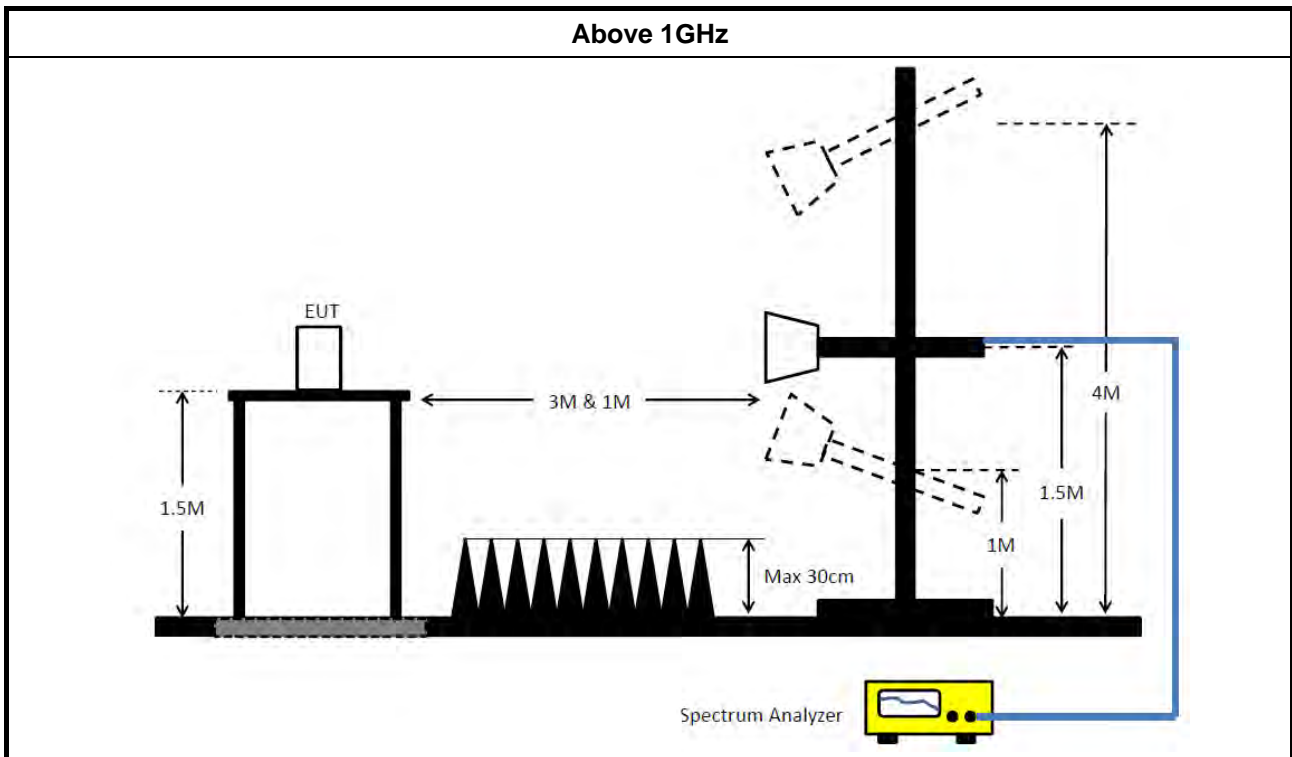
Refer a test equipment and calibration data table in this test report.

3.7.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> The average emission levels shall be measured in [hopping 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 ANSI C63.10, clause 4.1.4.2.1 QP value. Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak. Refer as ANSI C63.10, clause 4.1.4.2.4 average value of hopping pulsed emissions. 	

3.7.4 Test Setup





3.7.5 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.

3.7.6 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.

3.7.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix G



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. 26, 2020	Feb. 25, 2021	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Jan. 06, 2021	Jan. 05, 2022	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Feb. 25, 2020	Feb. 24, 2021	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Jan. 30, 2021	Jan. 29, 2022	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	May 20, 2020	May 19, 2021	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	Apr. 13, 2020	Apr. 12, 2021	Radiation (03CH05-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz ~ 1 GHz	Aug. 10, 2020	Aug. 09, 2021	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 27, 2020	Mar. 26, 2021	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	Apr. 28, 2020	Apr. 27, 2021	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Nov. 10, 2020	Nov. 09, 2021	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	May 13, 2020	May 12, 2021	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Oct. 05, 2020	Oct. 04, 2021	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 3m	Mar. 28, 2020	Mar. 27, 2021	Radiation (03CH02-CB)
Horn Antenna	EMCO	3115	9610-4976	1GHz ~ 18GHz	Apr. 21, 2020	Apr. 20, 2021	Radiation (03CH02-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 21, 2020	Jul. 20, 2021	Radiation (03CH02-CB)
Pre-Amplifier	Agilent	83017A	MY39501305	1GHz ~ 26.5GHz	Jul. 13, 2020	Jul. 12, 2021	Radiation (03CH02-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 08, 2020	Jul. 07, 2021	Radiation (03CH02-CB)
Spectrum analyzer	R&S	FSU	100015	9kHz~26GHz	Oct. 15, 2020	Oct. 14, 2021	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18	1GHz ~ 18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH02-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-18+19	1GHz ~ 18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH02-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH02-CB)
Signal Analyzer	R&S	FSV40	101903	9kHz ~ 40GHz	May 14, 2020	May 13, 2021	Conducted (TH03-CB)
Spectrum analyzer	R&S	FSV40	101028	9kHz~40GHz	Dec. 31, 2020	Dec. 30, 2021	Conducted (TH03-CB)
Power Sensor	Anritsu	MA2411B	1726195	300MHz~40GHz	Aug. 17, 2020	Aug. 16, 2021	Conducted (TH03-CB)
Power Meter	Anritsu	ML2495A	1035008	300MHz~40GHz	Aug. 17, 2020	Aug. 16, 2021	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-11	1 GHz –18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-12	1 GHz –18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-13	1 GHz –18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-14	1 GHz –18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-15	1 GHz –18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH03-CB)

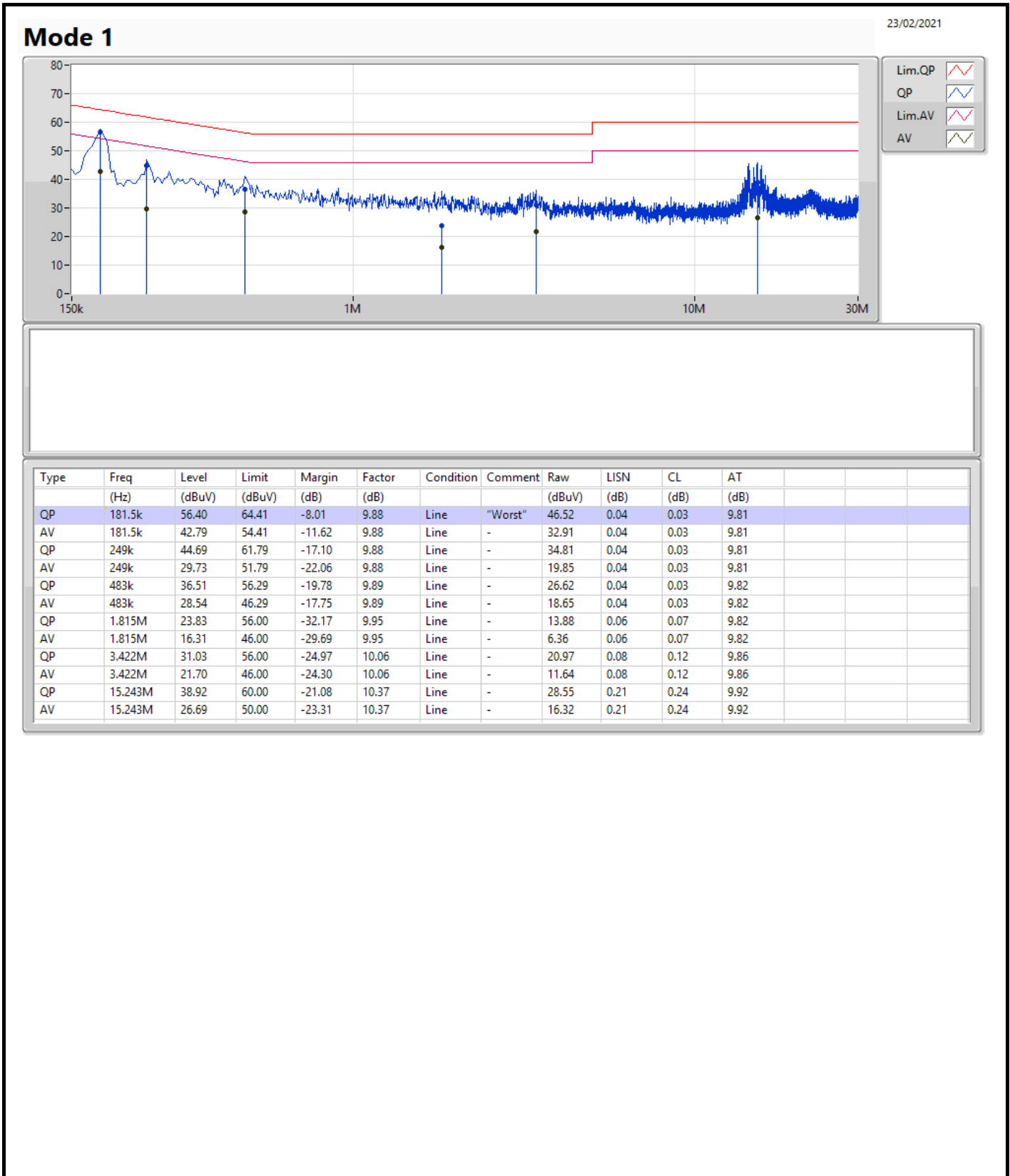
Note: Calibration Interval of instruments listed above is one year.

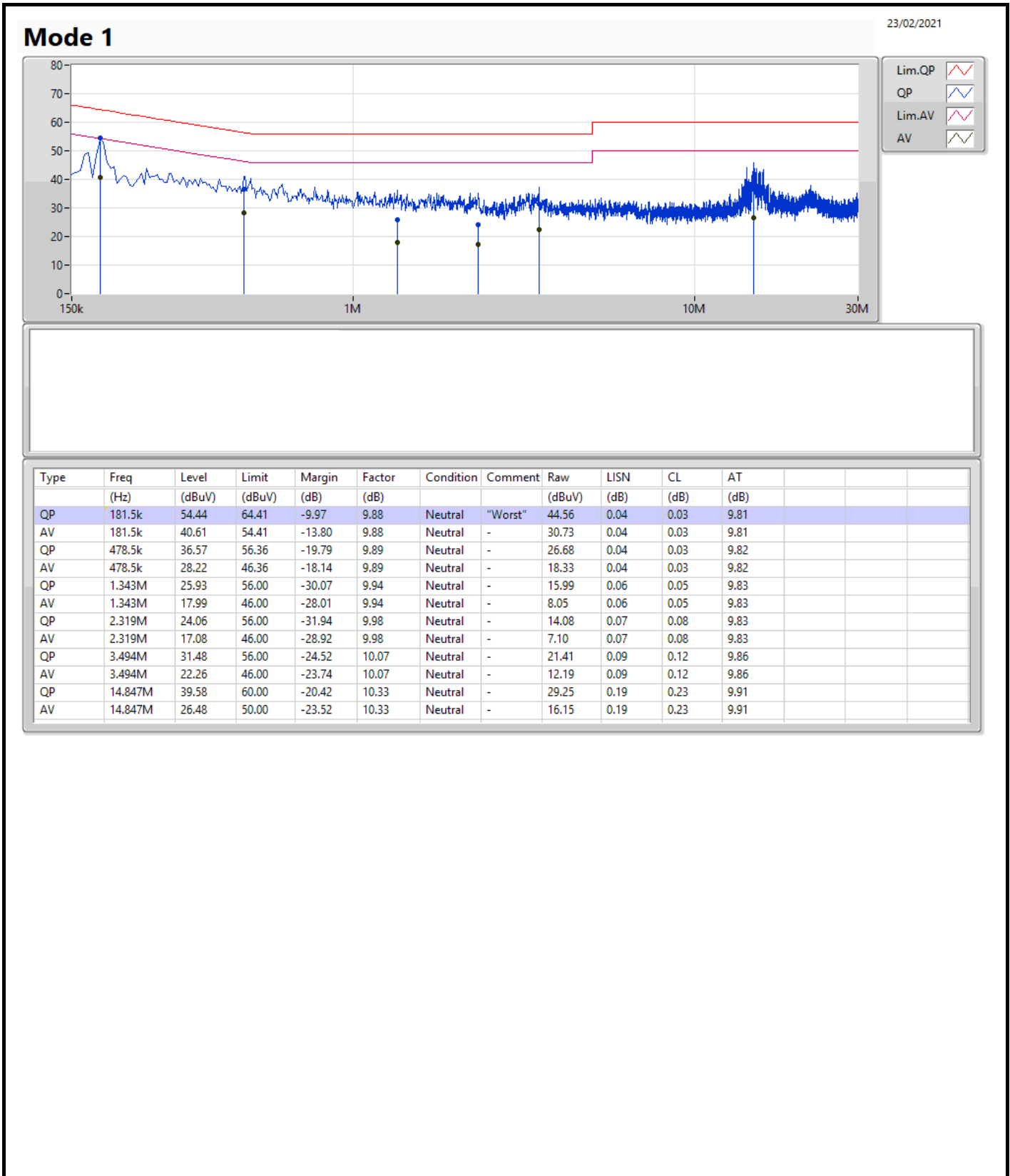
N.C.R. means Non-Calibration required.



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	181.5k	56.40	64.41	-8.01	Line







Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
BT-BR(1Mbps)	920k	865.817k	866KF1D	920k	860.82k
BT-EDR(2Mbps)	1.311M	1.181M	1M18G1D	1.309M	1.179M
BT-EDR(3Mbps)	1.261M	1.192M	1M19G1D	1.26M	1.188M

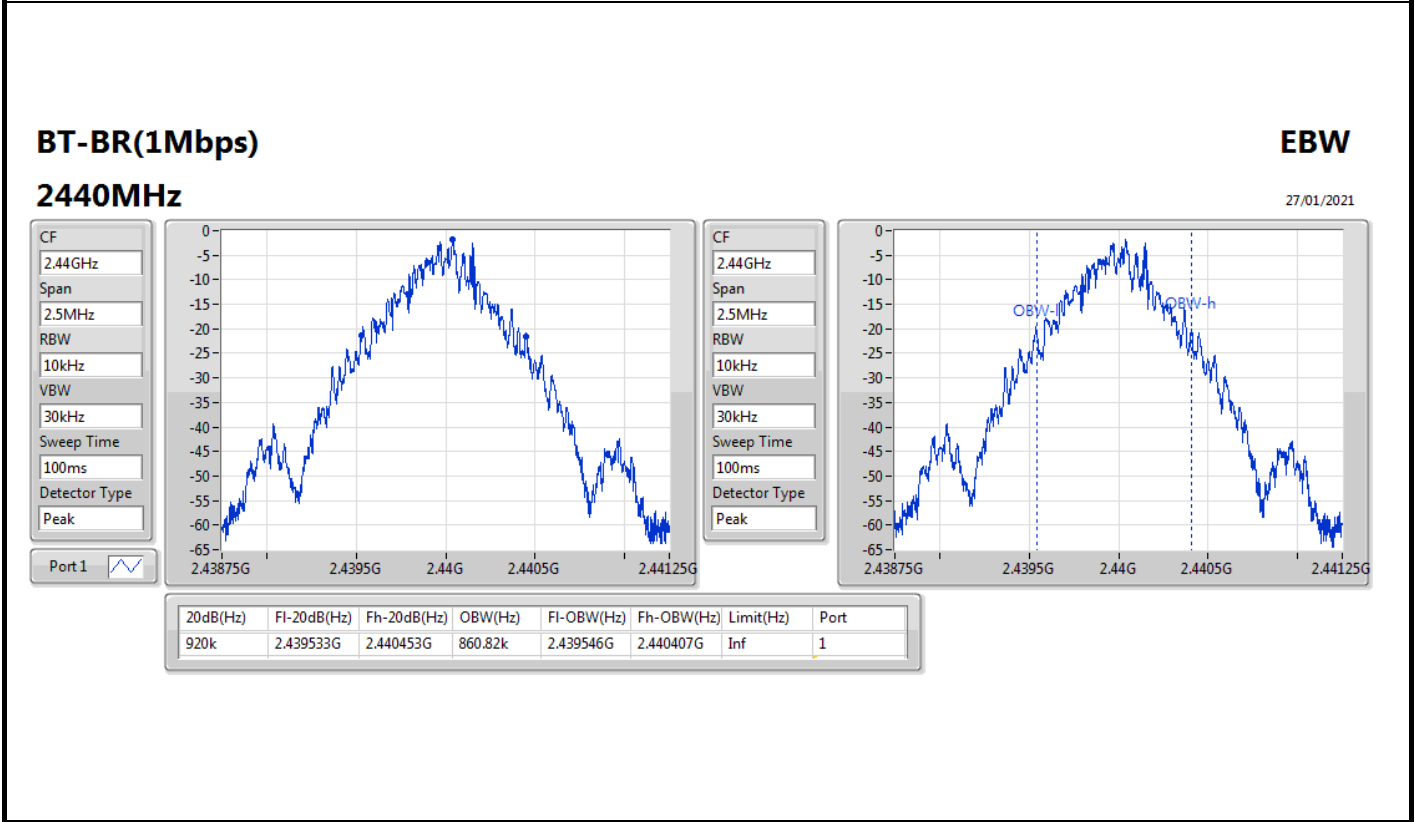
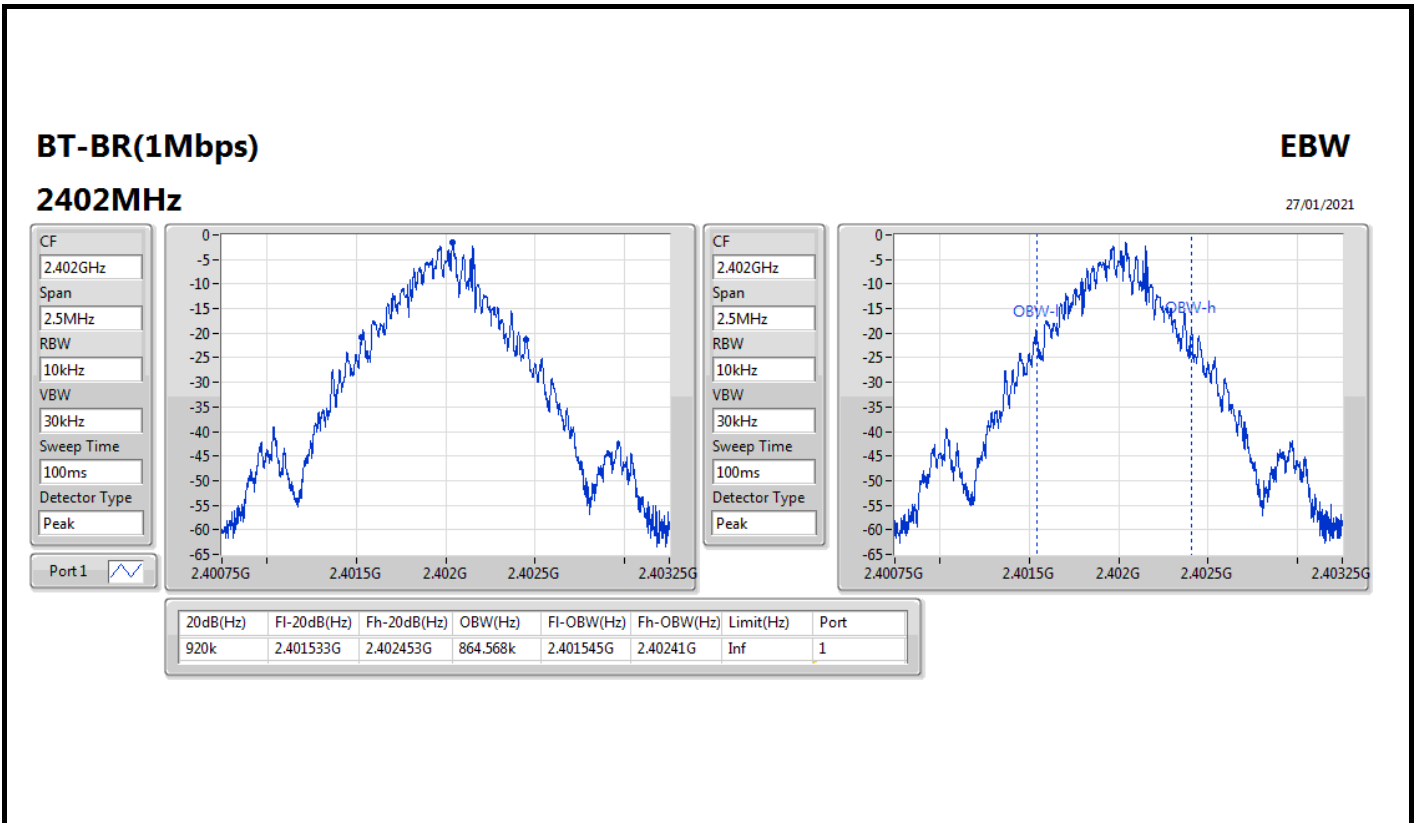
Max-N dB = Maximum 20dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;

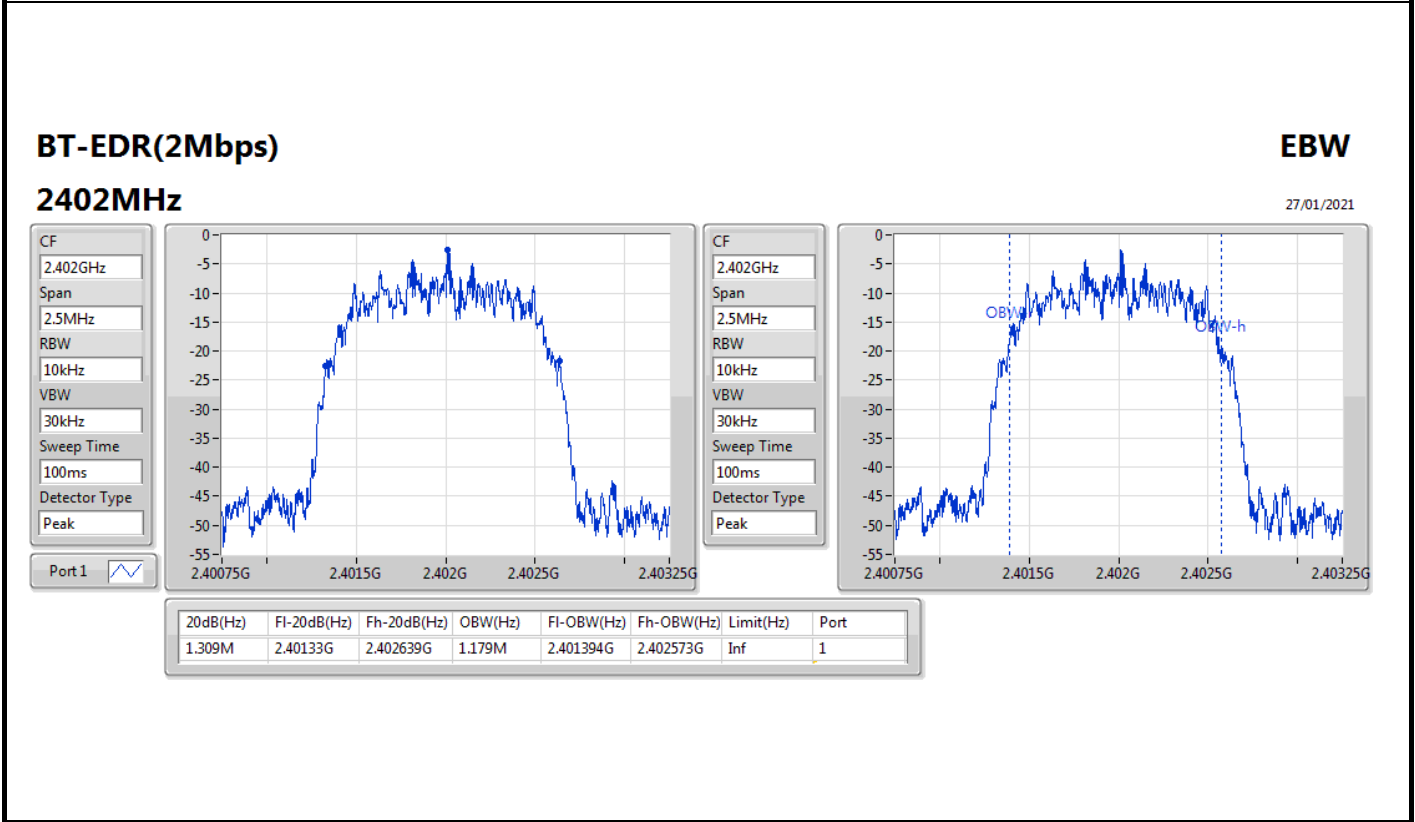
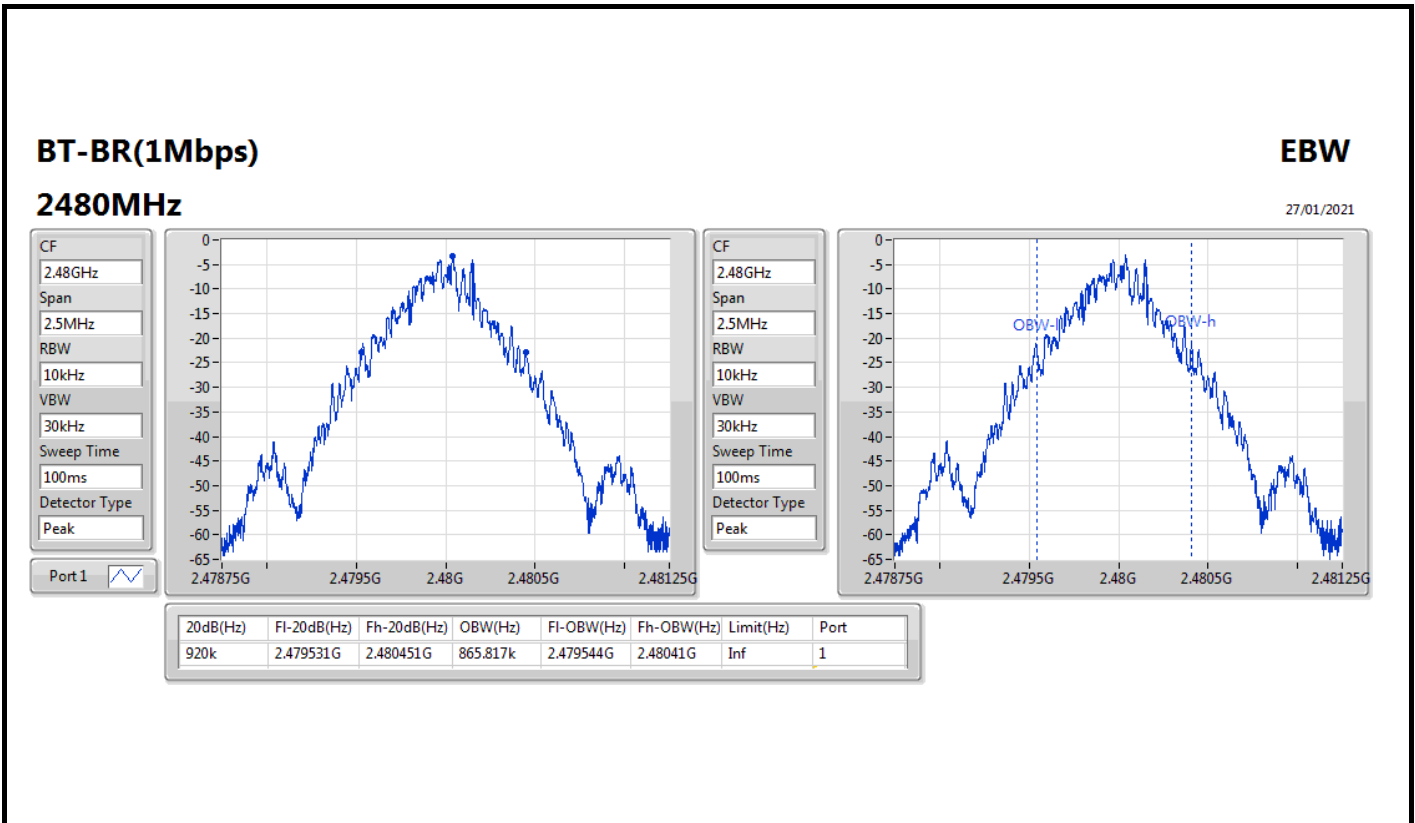
Min-N dB = Minimum 20dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth;

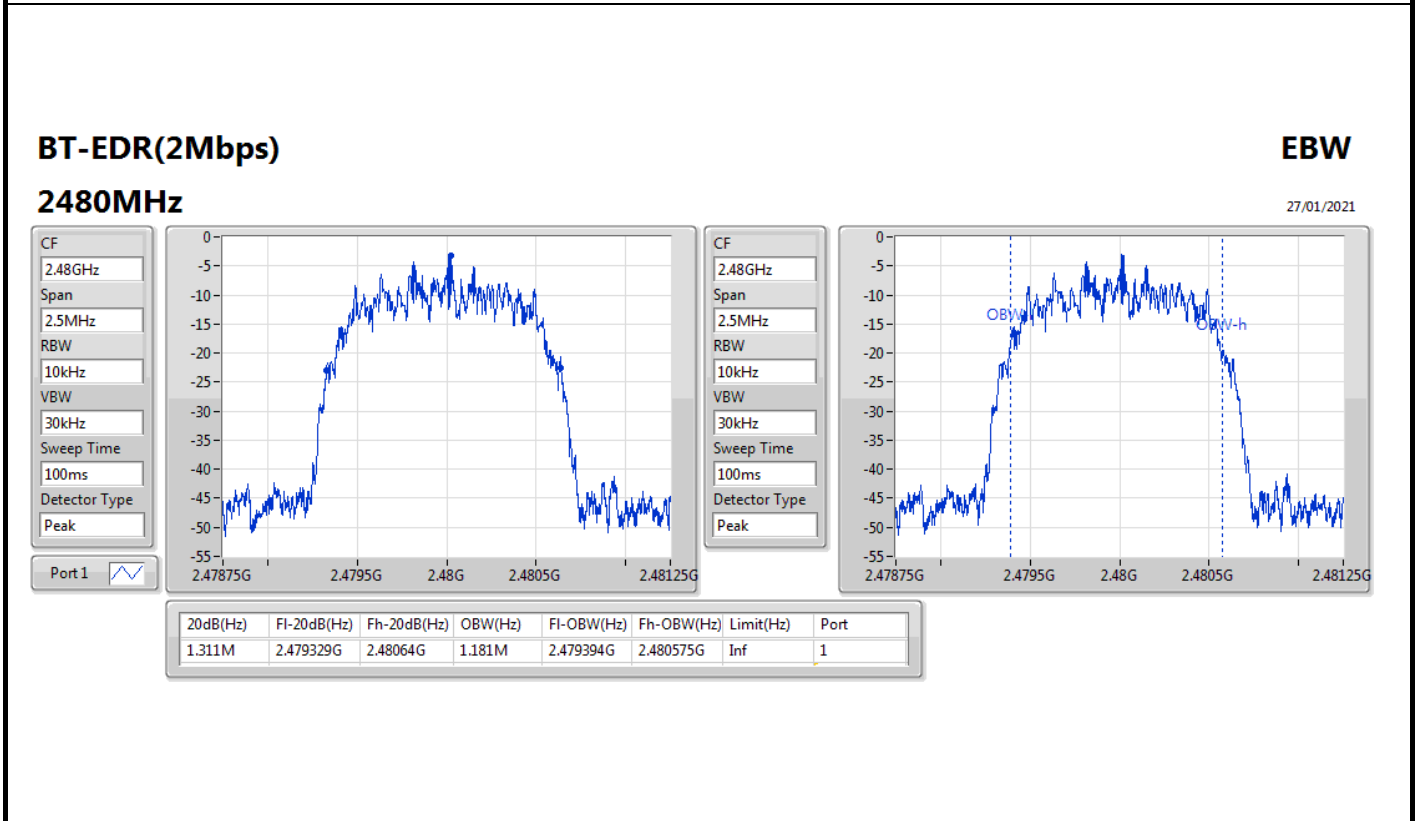
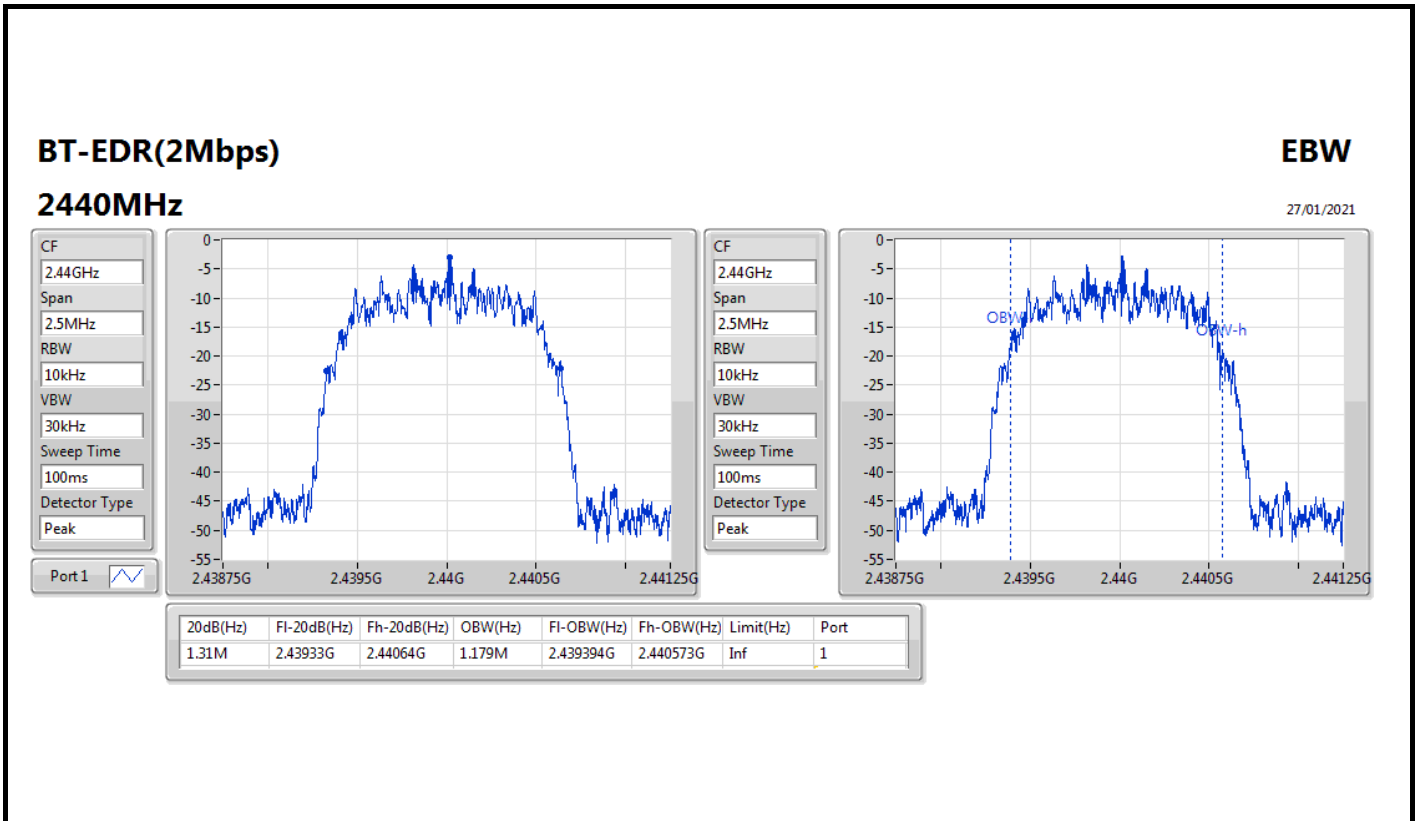
Result

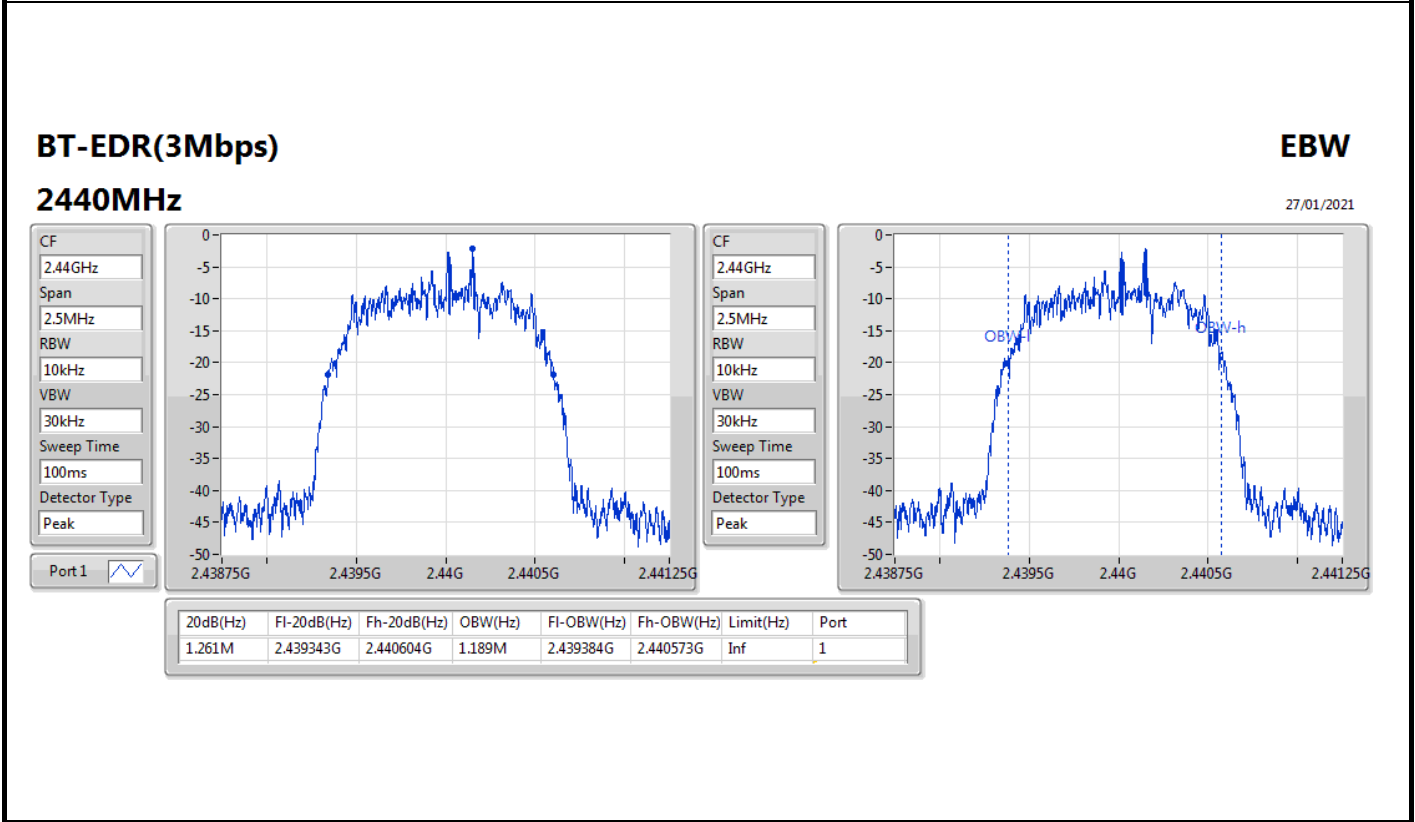
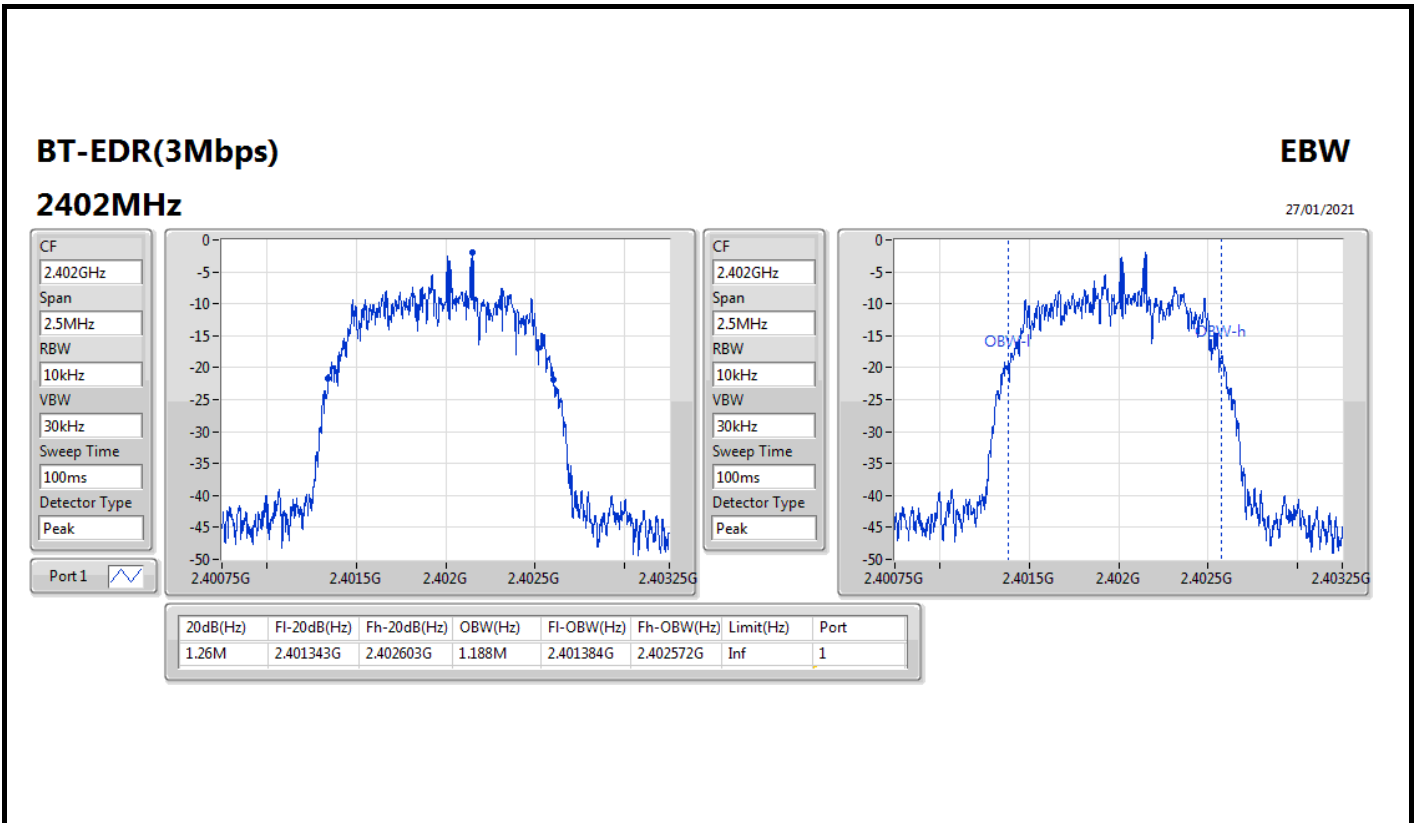
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	Inf	920k	864.568k
2440MHz	Pass	Inf	920k	860.82k
2480MHz	Pass	Inf	920k	865.817k
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.309M	1.179M
2440MHz	Pass	Inf	1.31M	1.179M
2480MHz	Pass	Inf	1.311M	1.181M
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.26M	1.188M
2440MHz	Pass	Inf	1.261M	1.189M
2480MHz	Pass	Inf	1.261M	1.192M

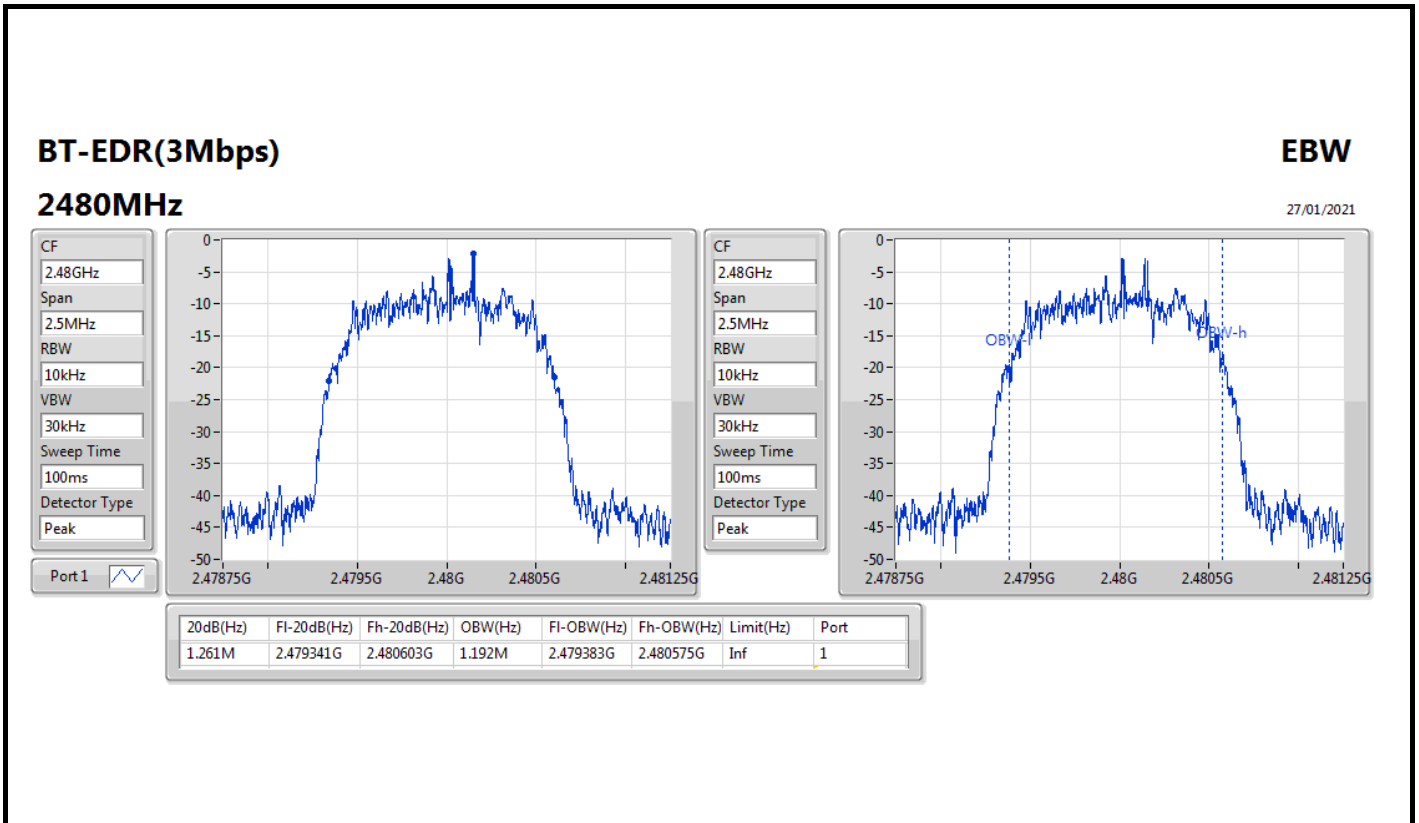
Port X-N dB = Port X 20dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;











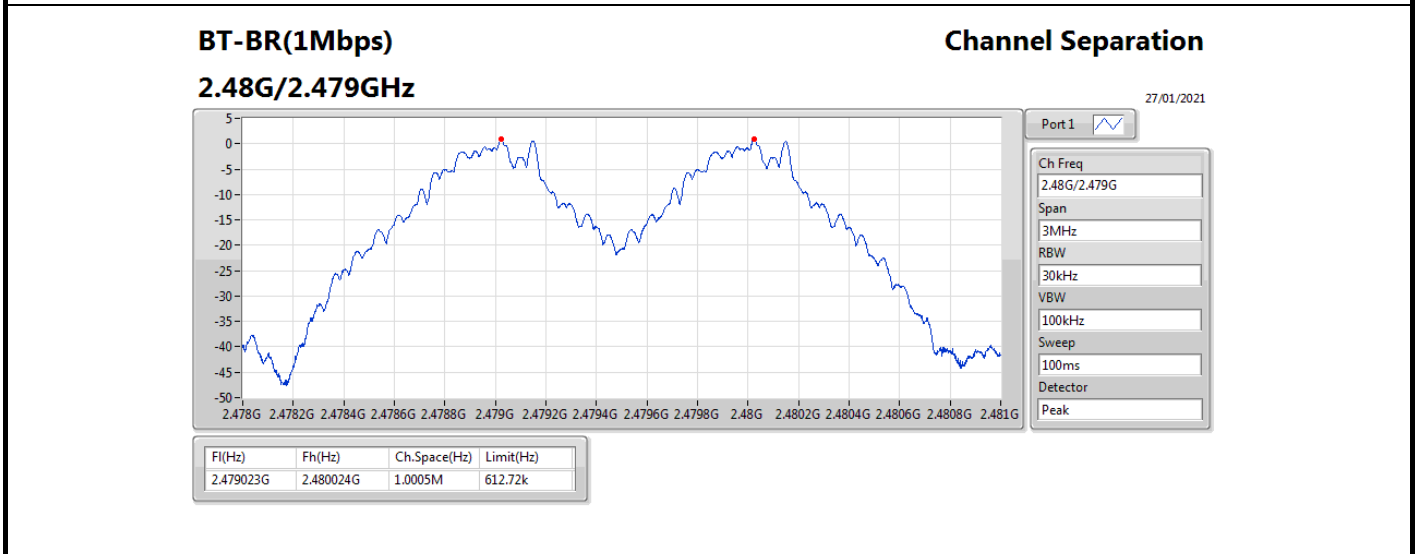
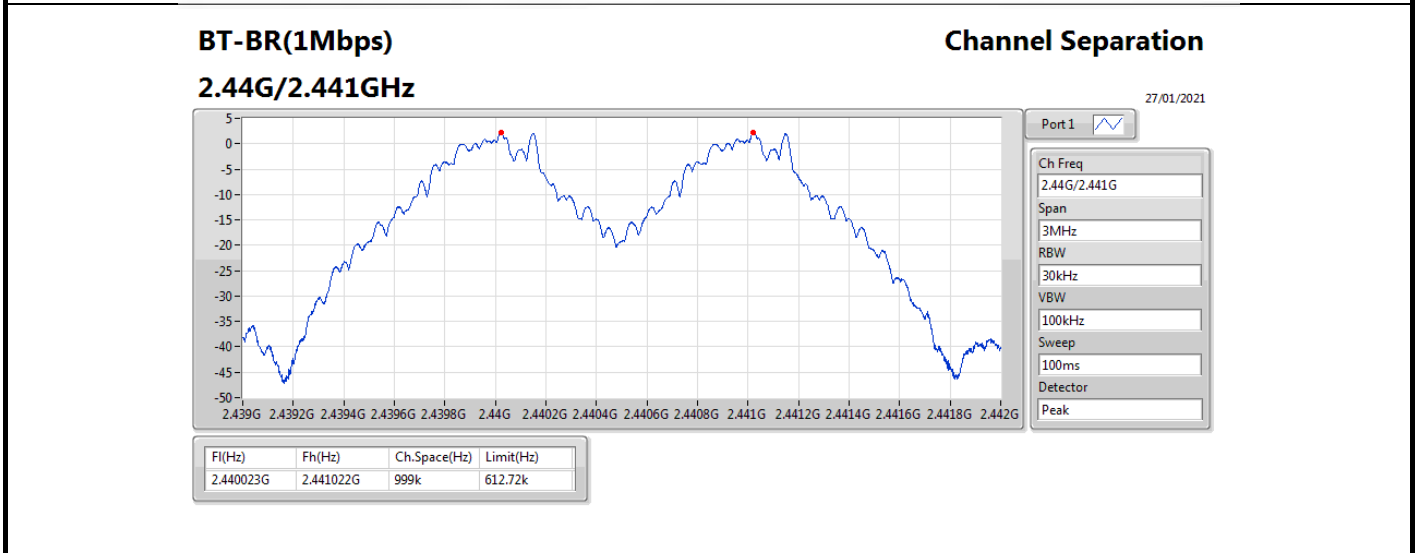
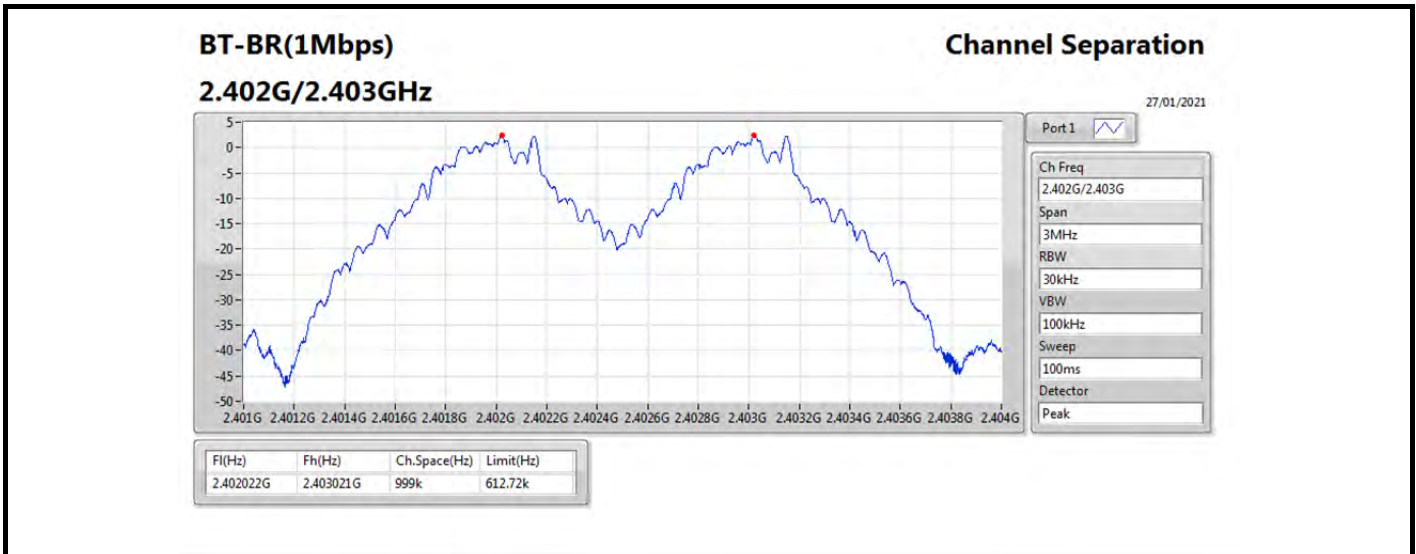


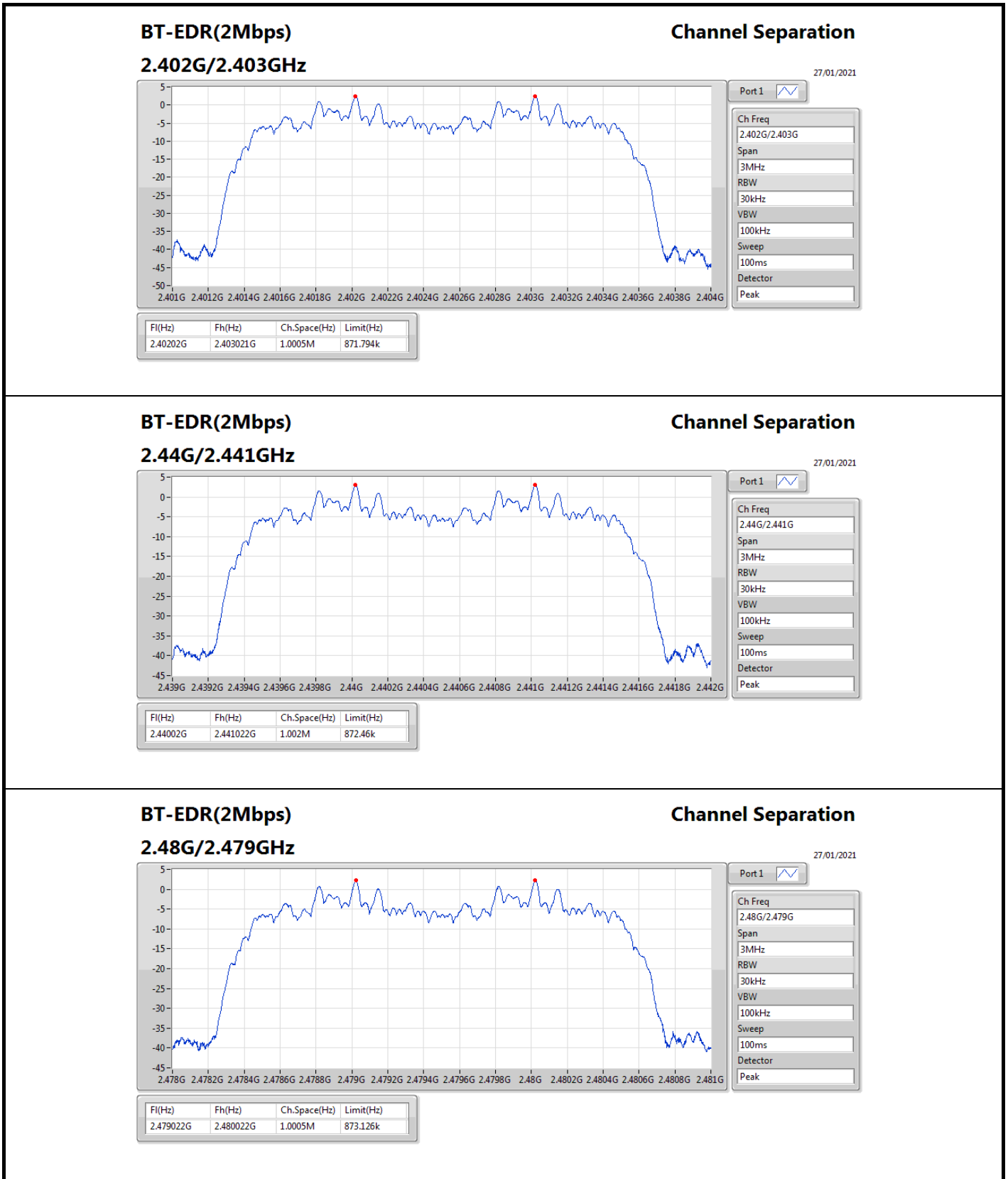
Summary

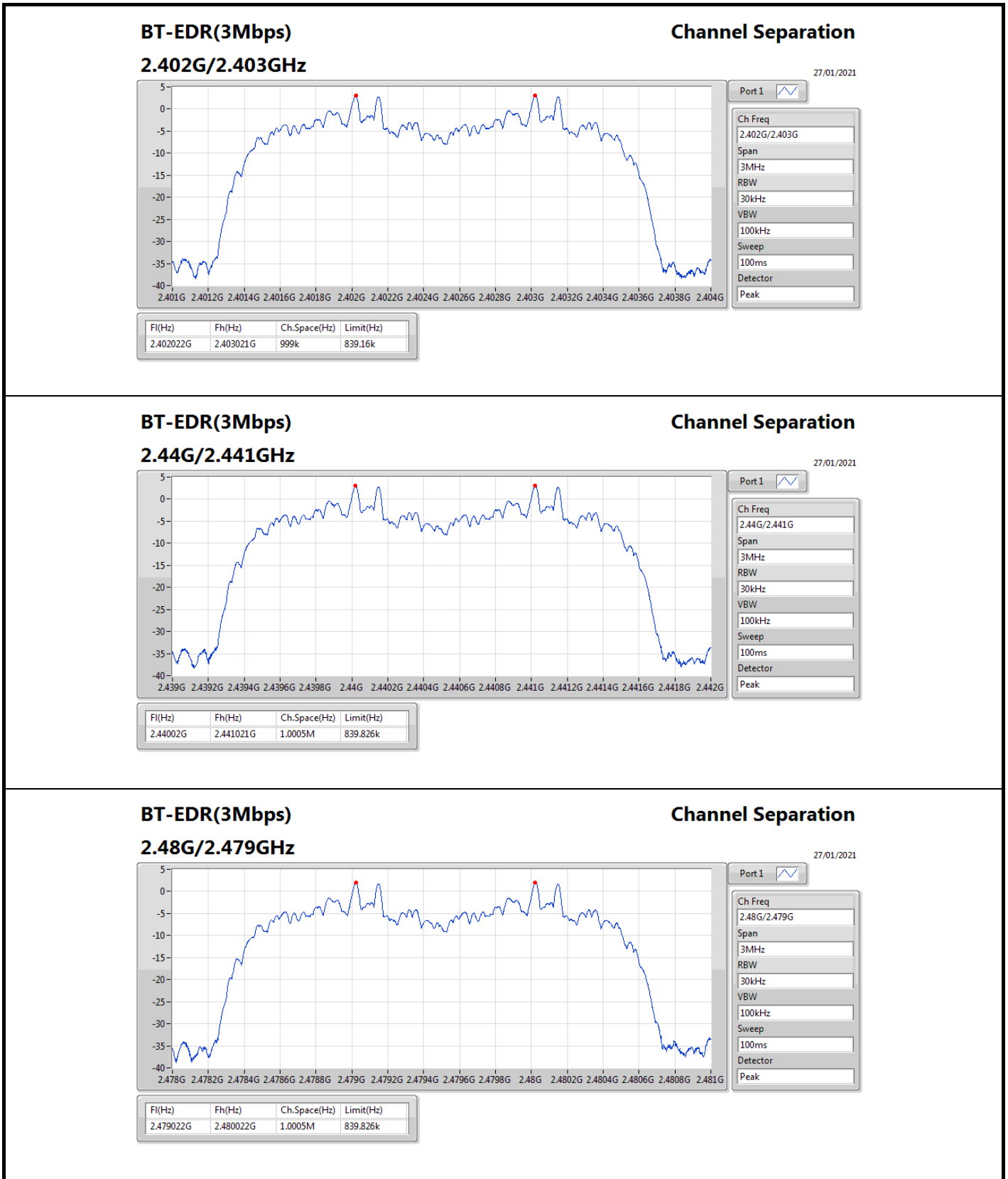
Mode	Max-Space (Hz)	Min-Space (Hz)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	1.0005M	999k
BT-EDR(2Mbps)	1.002M	1.0005M
BT-EDR(3Mbps)	1.0005M	999k

Result

Mode	Result	Fl (Hz)	Fh (Hz)	Ch.Space (Hz)	Limit (Hz)
BT-BR(1Mbps)	-	-	-	-	-
2402MHz	Pass	2.402022G	2.403021G	999k	612.72k
2440MHz	Pass	2.440023G	2.441022G	999k	612.72k
2480MHz	Pass	2.479023G	2.480024G	1.0005M	612.72k
BT-EDR(2Mbps)	-	-	-	-	-
2402MHz	Pass	2.40202G	2.403021G	1.0005M	871.794k
2440MHz	Pass	2.44002G	2.441022G	1.002M	872.46k
2480MHz	Pass	2.479022G	2.480022G	1.0005M	873.126k
BT-EDR(3Mbps)	-	-	-	-	-
2402MHz	Pass	2.402022G	2.403021G	999k	839.16k
2440MHz	Pass	2.44002G	2.441021G	1.0005M	839.826k
2480MHz	Pass	2.479022G	2.480022G	1.0005M	839.826k









Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	3.69	0.00234
BT-EDR(2Mbps)	3.95	0.00248
BT-EDR(3Mbps)	3.93	0.00247



Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	3.20	3.69	21.00
2440MHz	Pass	3.20	3.31	21.00
2480MHz	Pass	3.20	3.13	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	3.20	3.95	21.00
2440MHz	Pass	3.20	3.77	21.00
2480MHz	Pass	3.20	3.71	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	3.20	3.93	21.00
2440MHz	Pass	3.20	3.81	21.00
2480MHz	Pass	3.20	3.74	21.00

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



Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	3.92	0.00247
BT-EDR(2Mbps)	6.32	0.00429
BT-EDR(3Mbps)	6.56	0.00453



Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	3.20	3.92	21.00
2440MHz	Pass	3.20	3.57	21.00
2480MHz	Pass	3.20	3.40	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	3.20	6.32	21.00
2440MHz	Pass	3.20	6.04	21.00
2480MHz	Pass	3.20	5.97	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	3.20	6.56	21.00
2440MHz	Pass	3.20	6.30	21.00
2480MHz	Pass	3.20	6.21	21.00

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



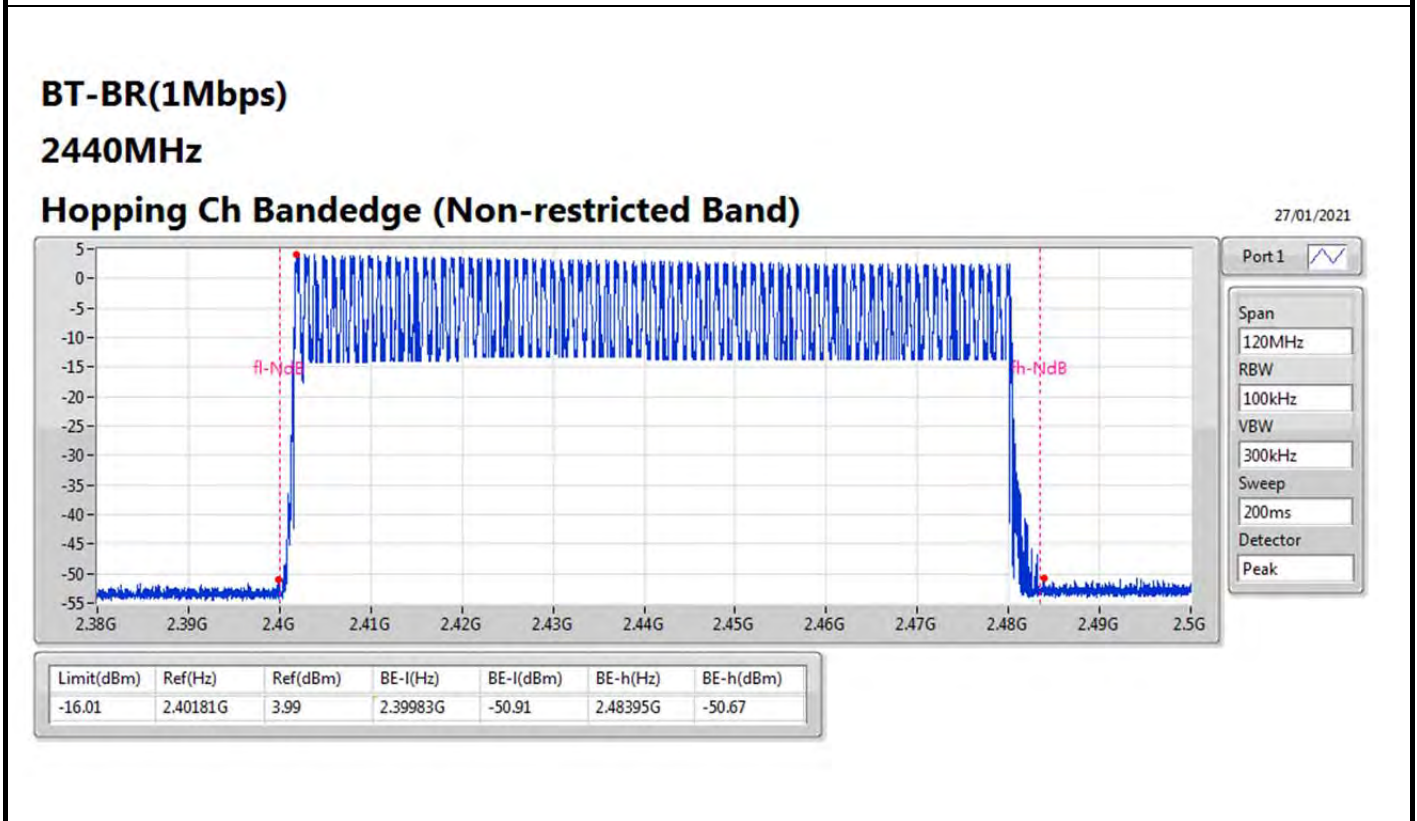
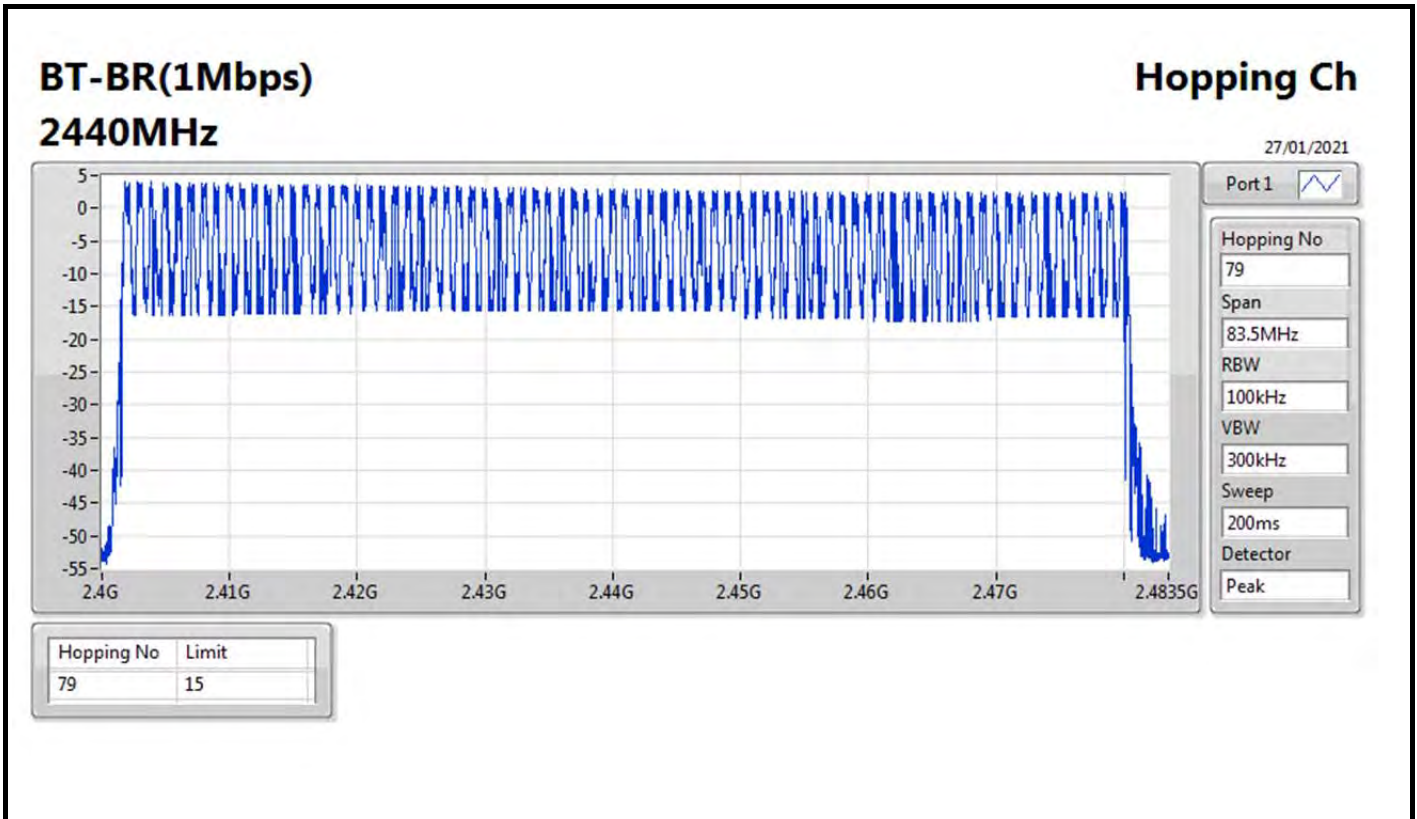
Summary

Mode	Max-Hop No
2.4-2.4835GHz	-
BT-BR(1Mbps)	79
BT-EDR(2Mbps)	79
BT-EDR(3Mbps)	79



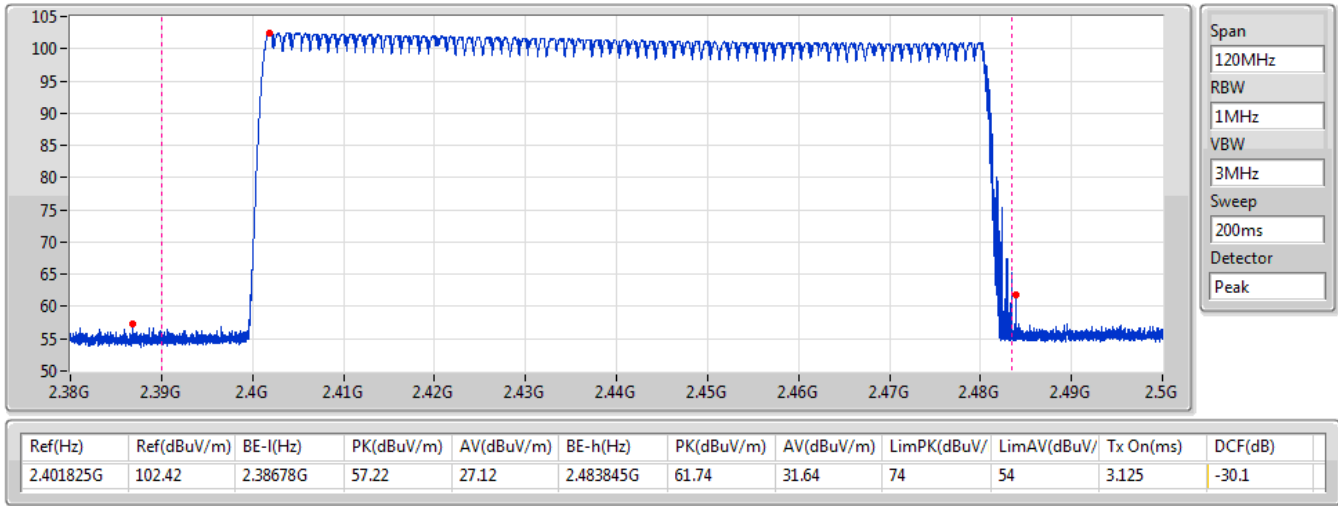
Result

Mode	Result	Hopping No	Limit
BT-BR(1Mbps)	-	-	-
2440MHz	Pass	79	15
BT-EDR(2Mbps)	-	-	-
2440MHz	Pass	79	15
BT-EDR(3Mbps)	-	-	-
2440MHz	Pass	79	15



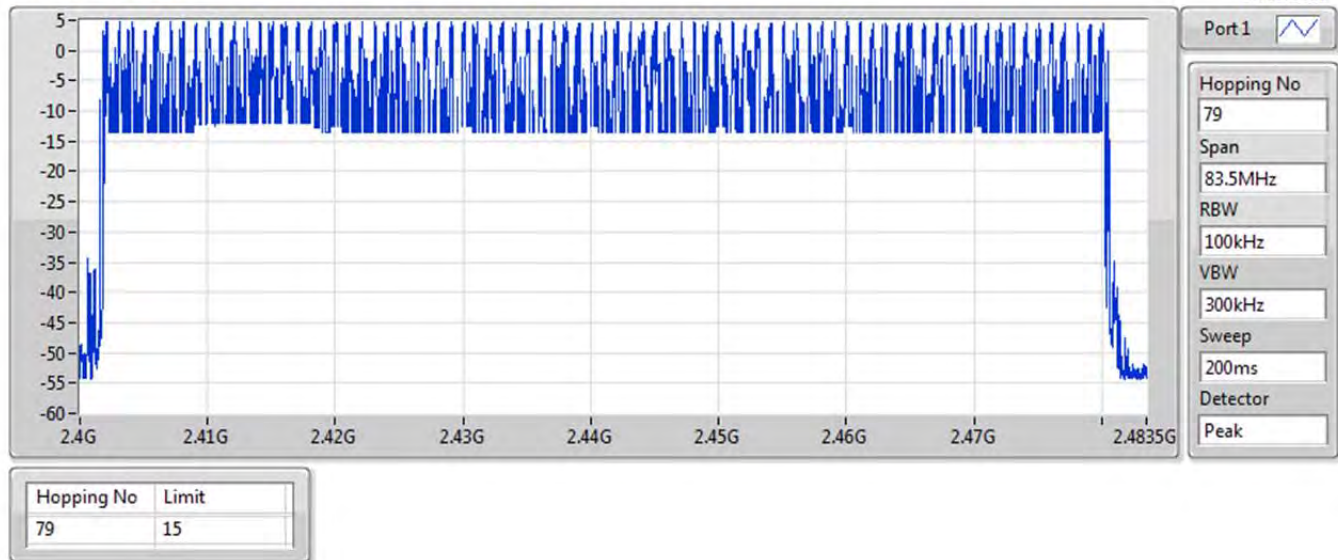
BT-BR(1Mbps)
2440MHz
Hopping Ch Bandedge (Restricted Band)

27/01/2021



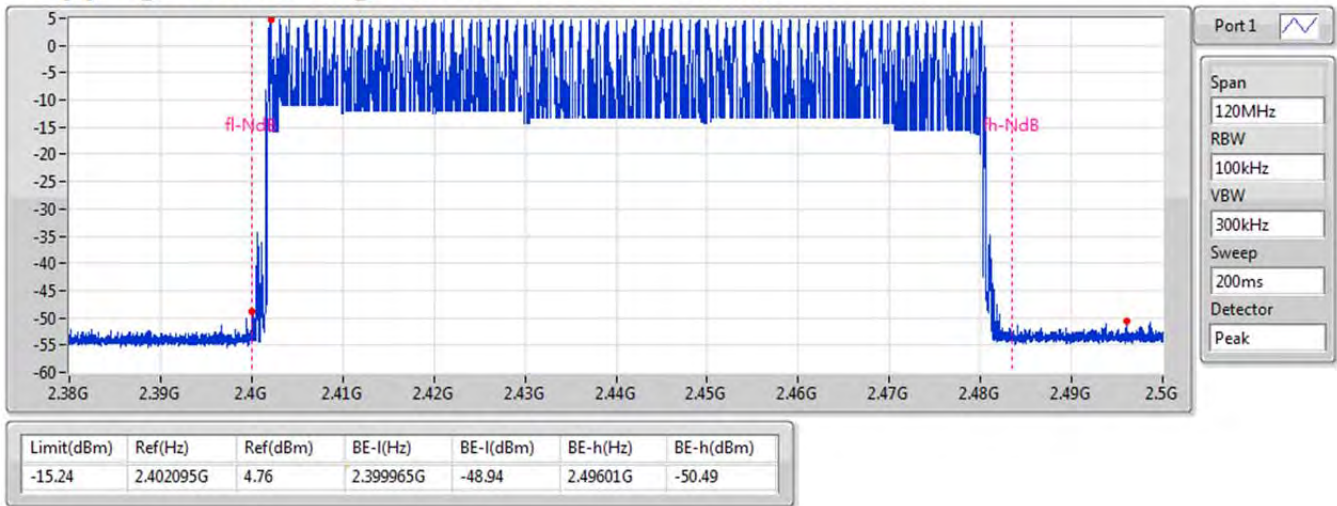
BT-EDR(2Mbps) **Hopping Ch**
2440MHz

27/01/2021



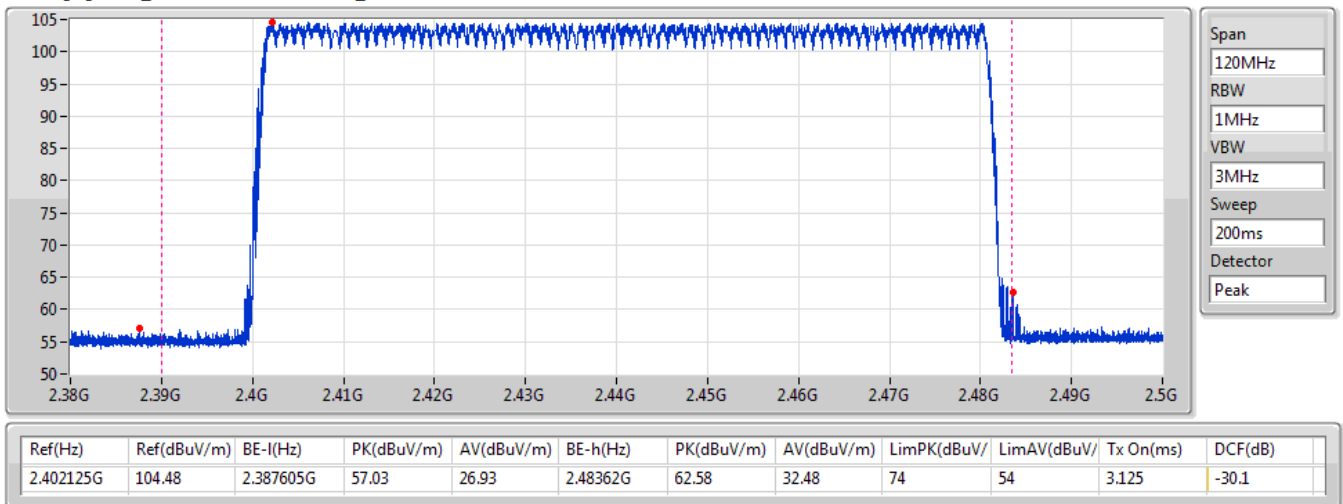
BT-EDR(2Mbps)
2440MHz
Hopping Ch Bandedge (Non-restricted Band)

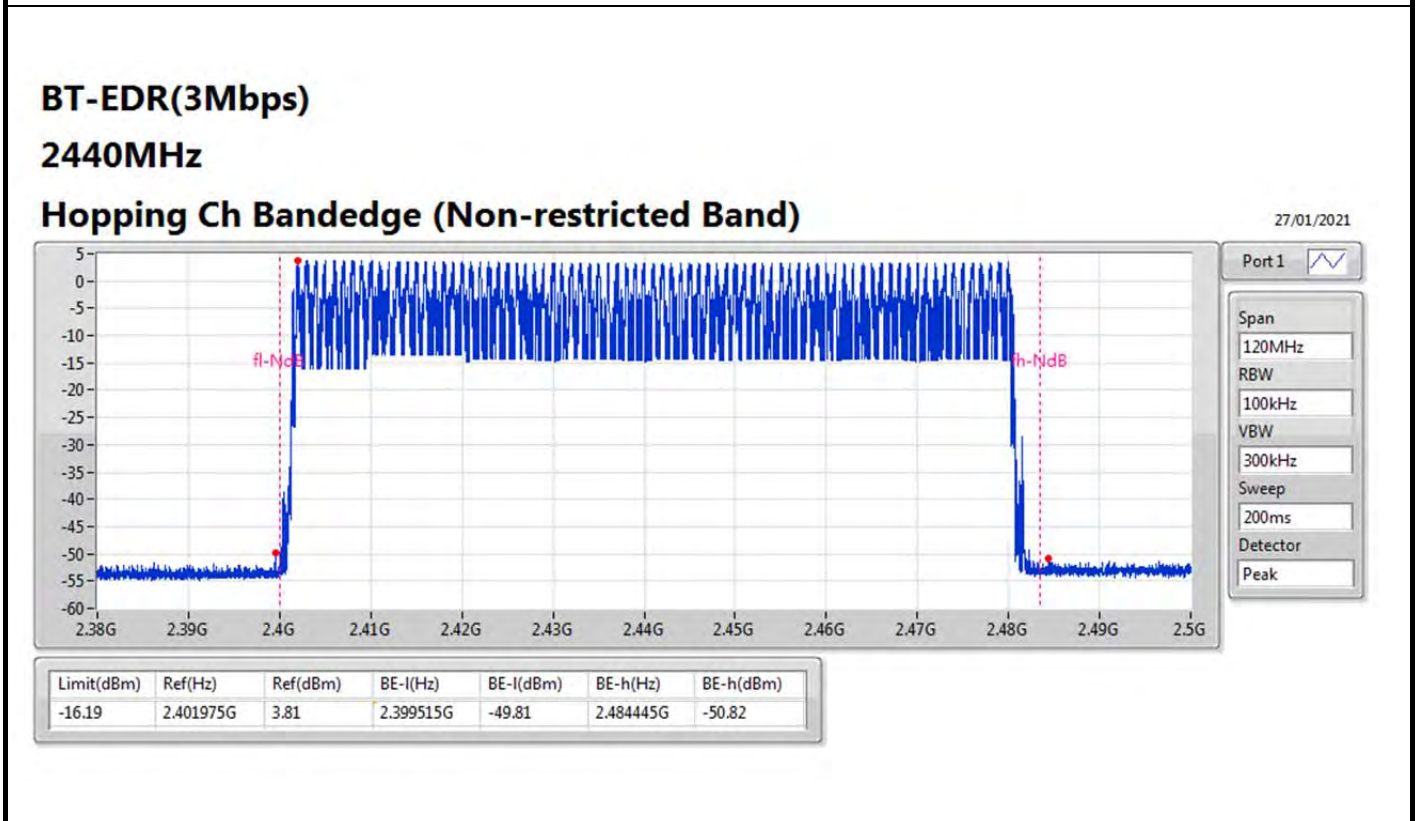
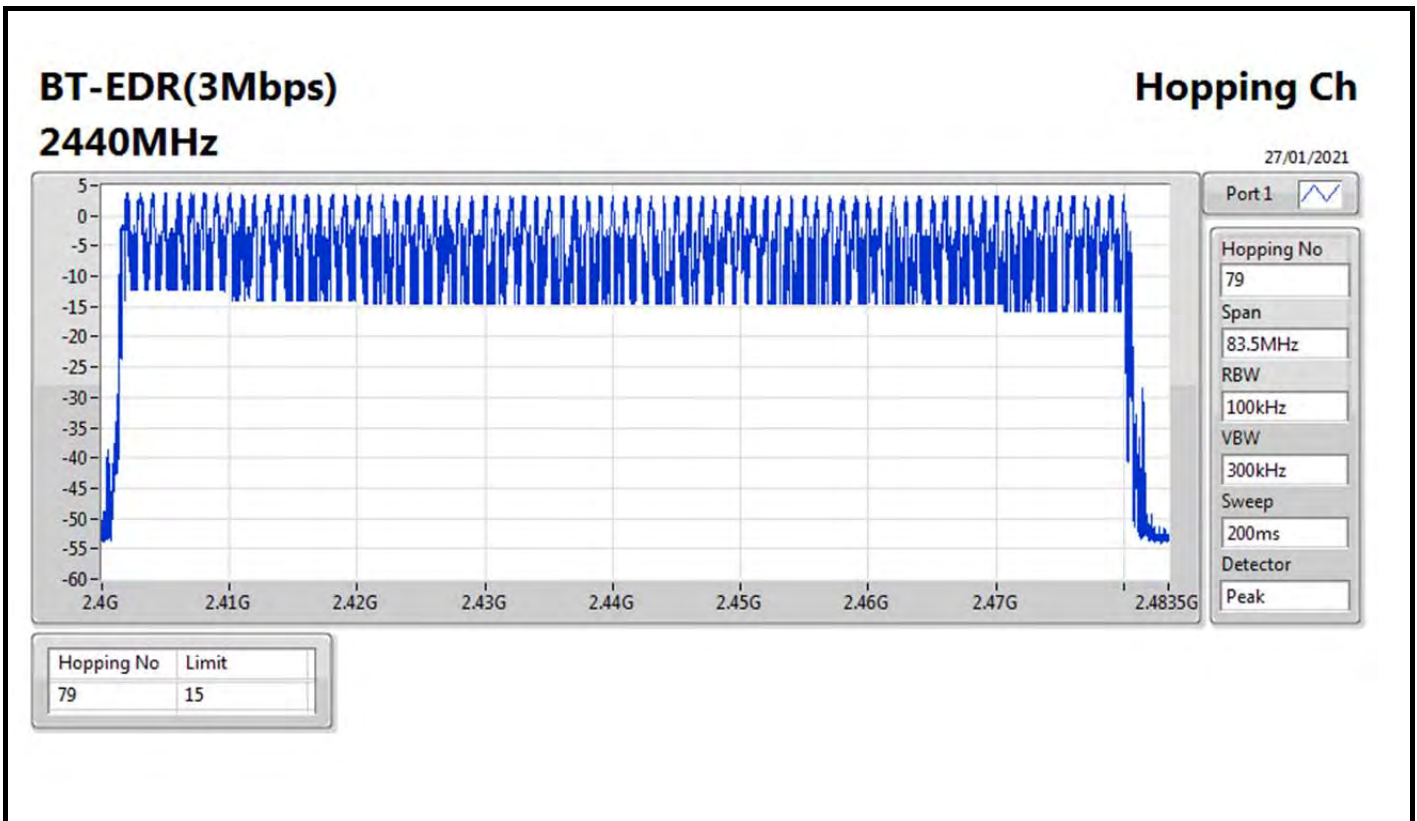
27/01/2021



BT-EDR(2Mbps)
2440MHz
Hopping Ch Bandedge (Restricted Band)

27/01/2021



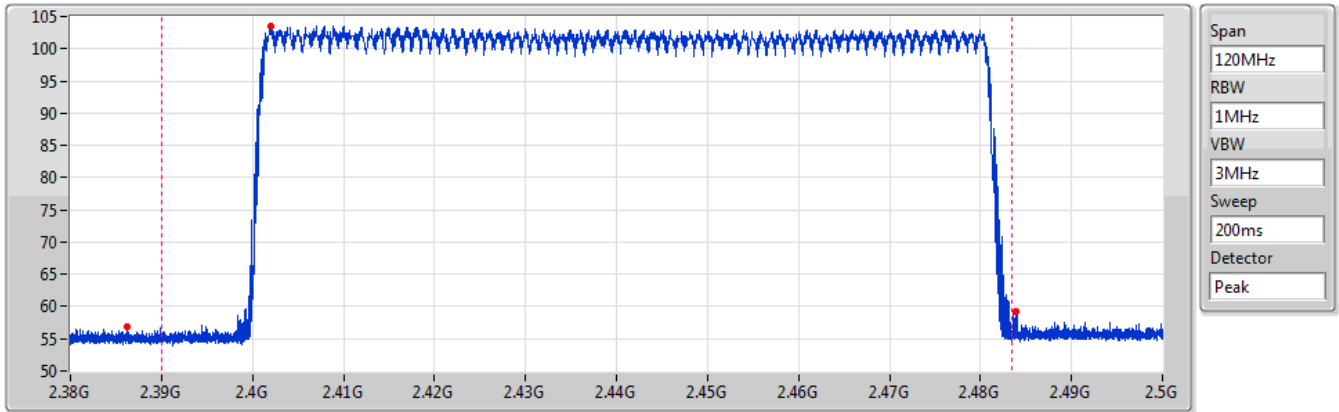


BT-EDR(3Mbps)

2440MHz

Hopping Ch Bandedge (Restricted Band)

27/01/2021



Ref(Hz)	Ref(dBuV/m)	BE-l(Hz)	PK(dBuV/m)	AV(dBuV/m)	BE-h(Hz)	PK(dBuV/m)	AV(dBuV/m)	LimPK(dBuV/	LimAV(dBuV/	Tx On(ms)	DCF(dB)
2.402005G	103.59	2.386225G	56.83	26.73	2.483845G	59.14	29.04	74	54	3.125	-30.1



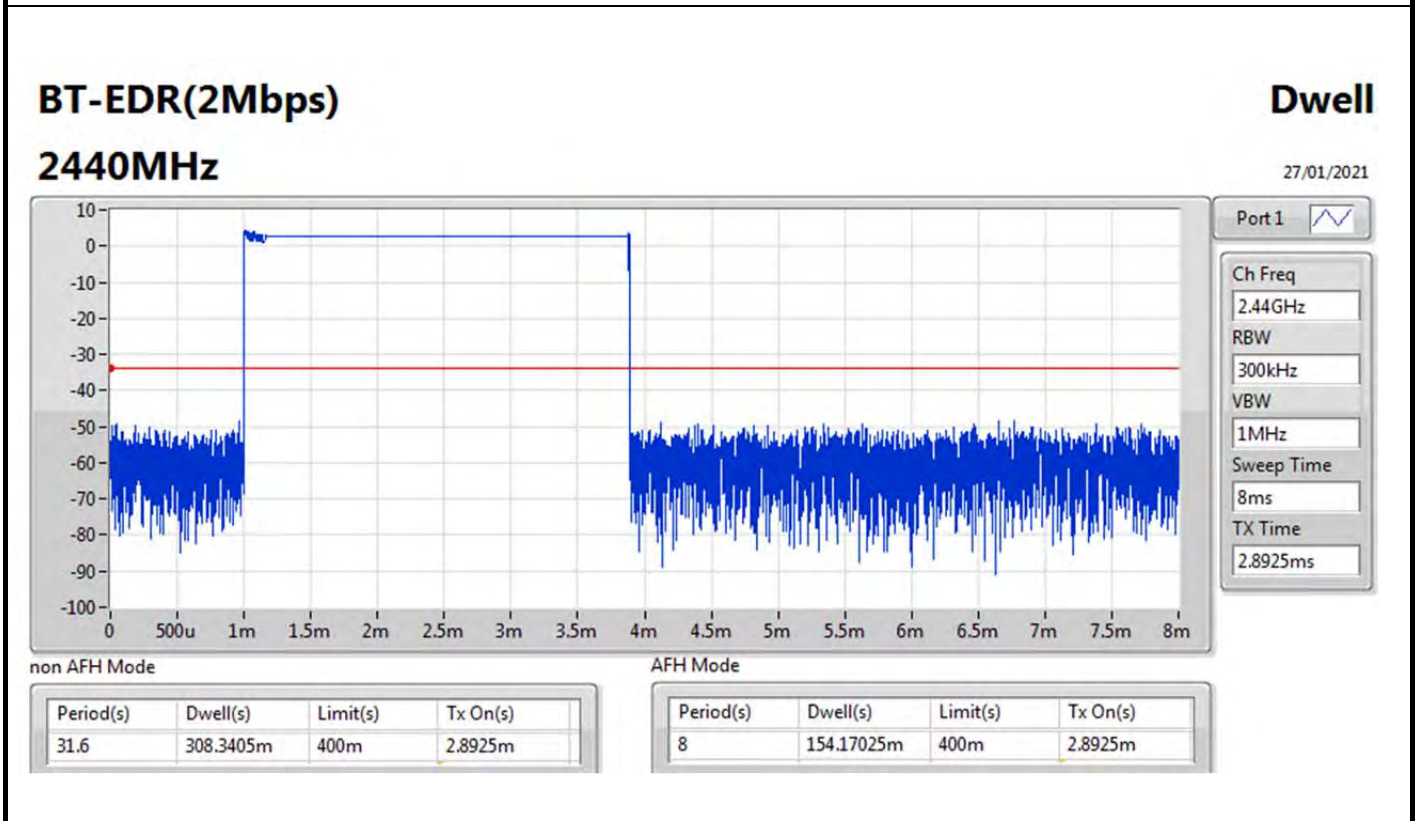
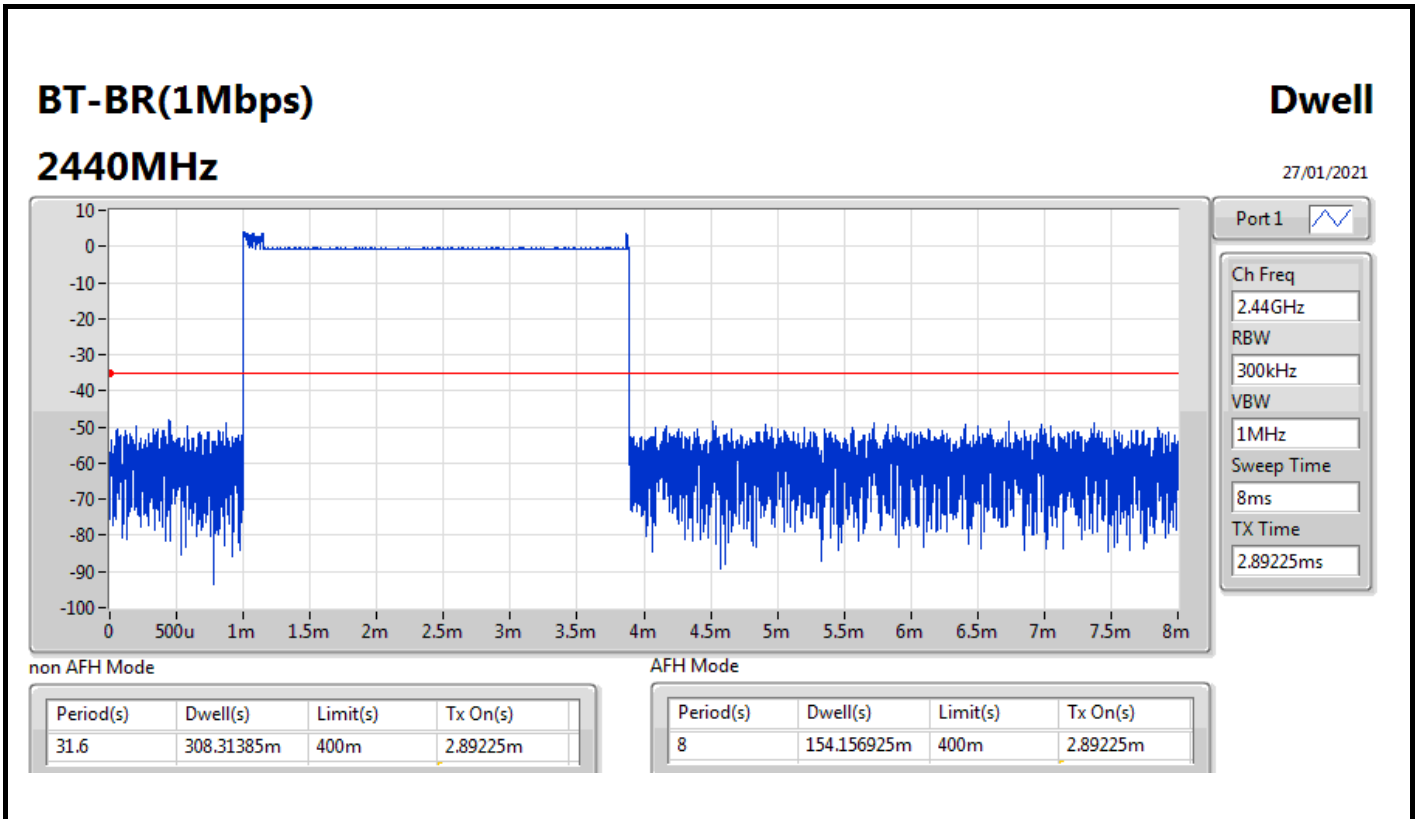
Summary

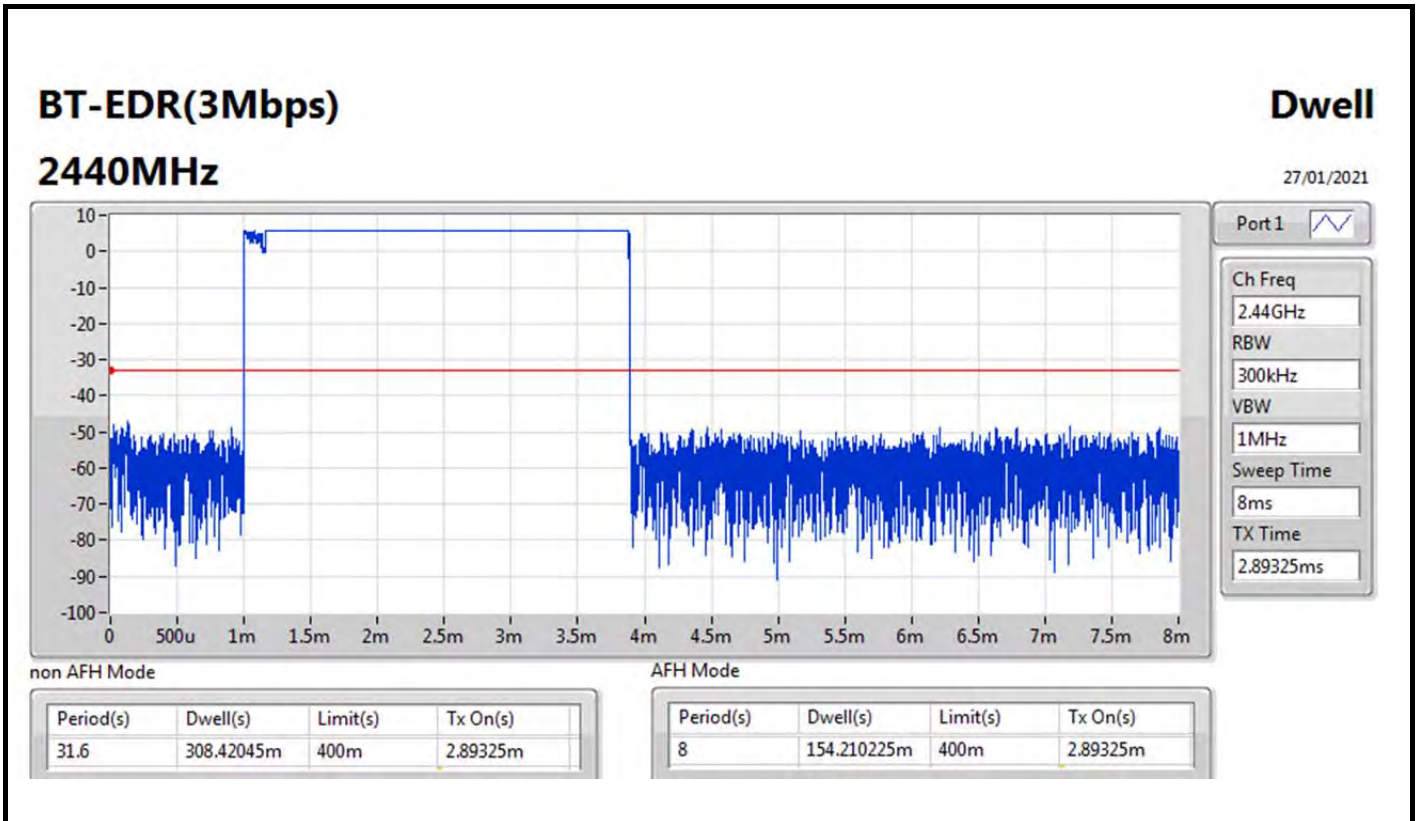
Mode	Max-Dwell (s)
2.4-2.4835GHz	-
BT-BR(1Mbps)	308.31385m
BT-EDR(2Mbps)	308.3405m
BT-EDR(3Mbps)	308.42045m



Result

Mode	Result	Period (s)	Dwell (s)	Limit (s)	Tx On (s)
BT-BR(1Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	308.31385m	400m	2.89225m
BT-EDR(2Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	308.3405m	400m	2.8925m
BT-EDR(3Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	308.42045m	400m	2.89325m





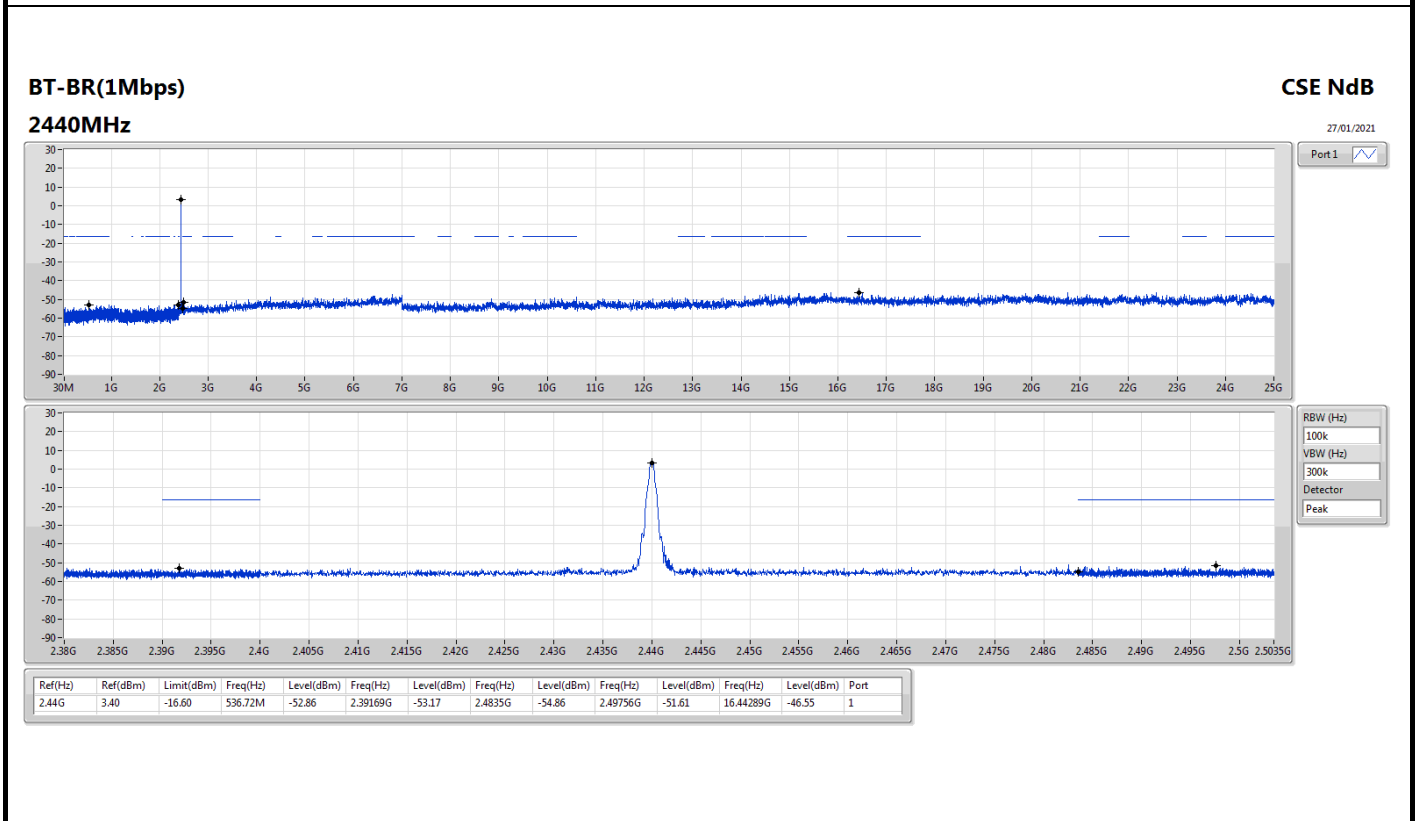
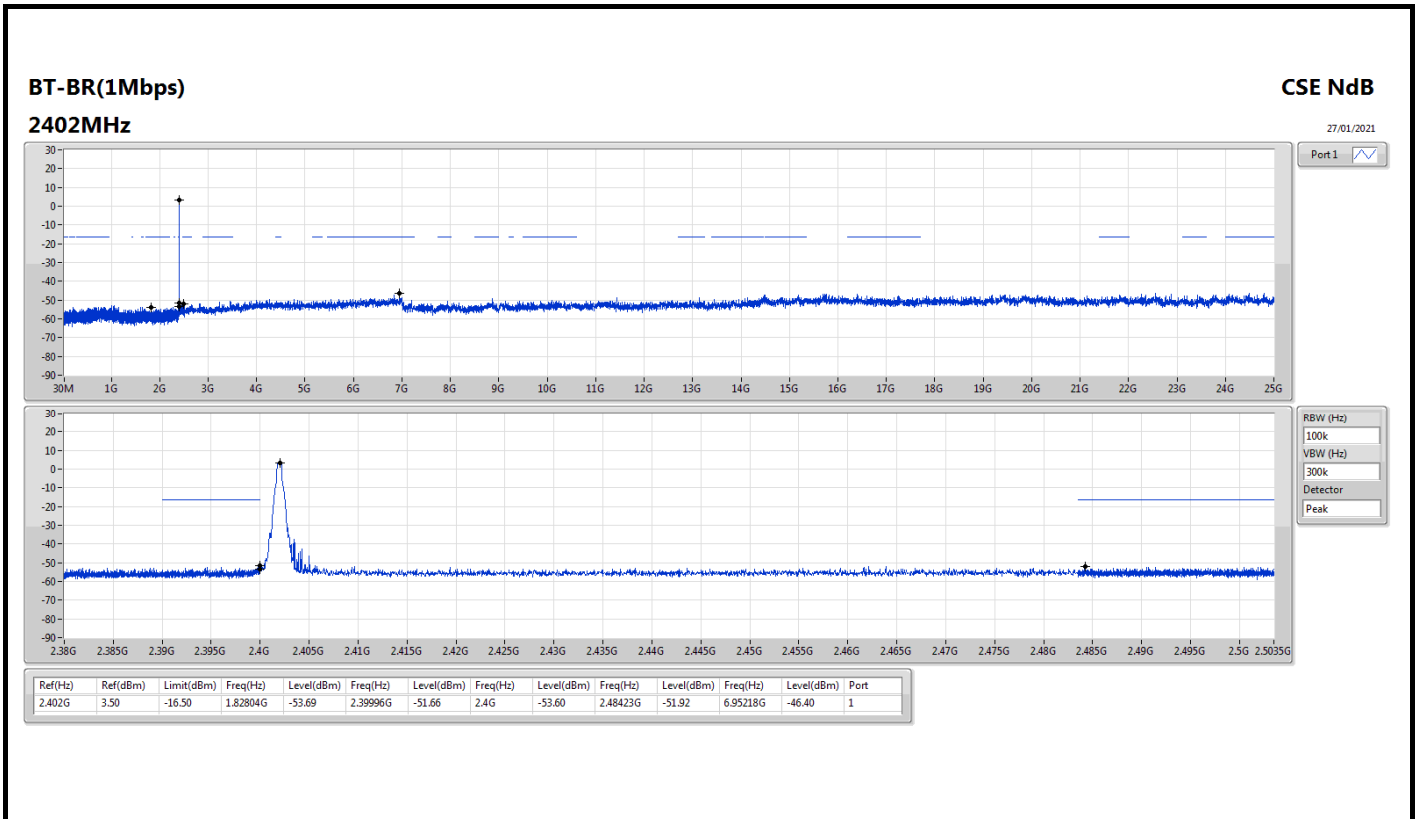


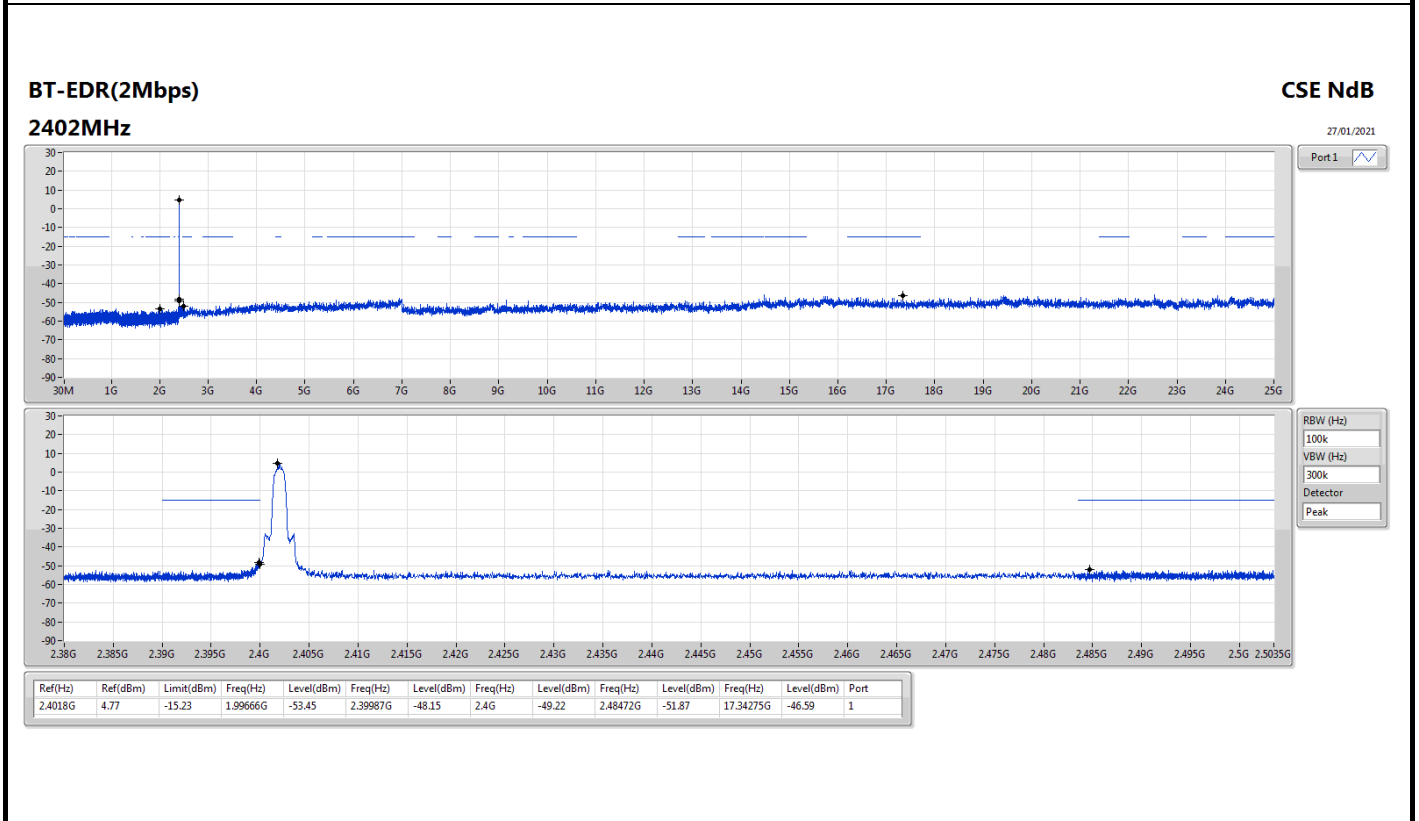
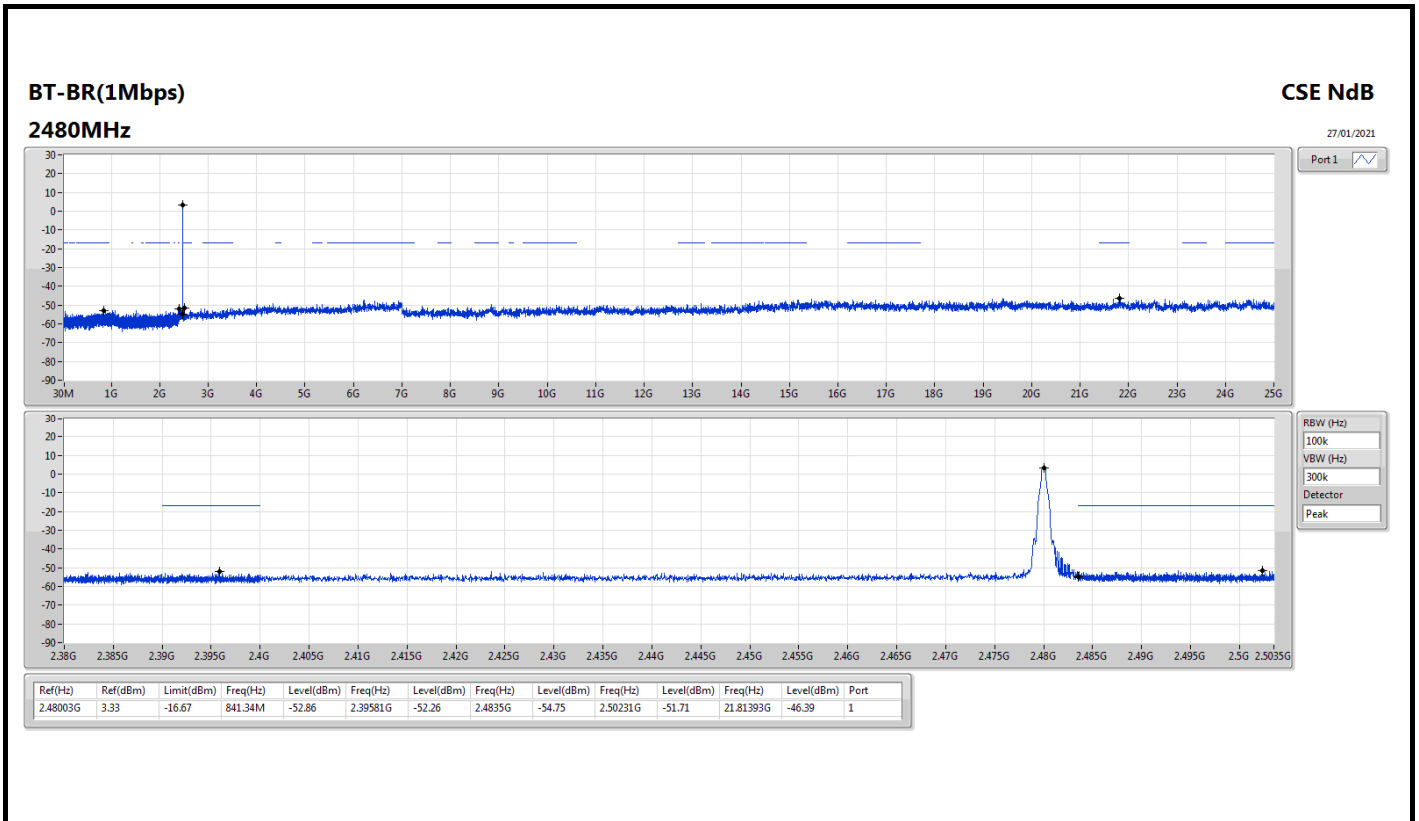
Summary

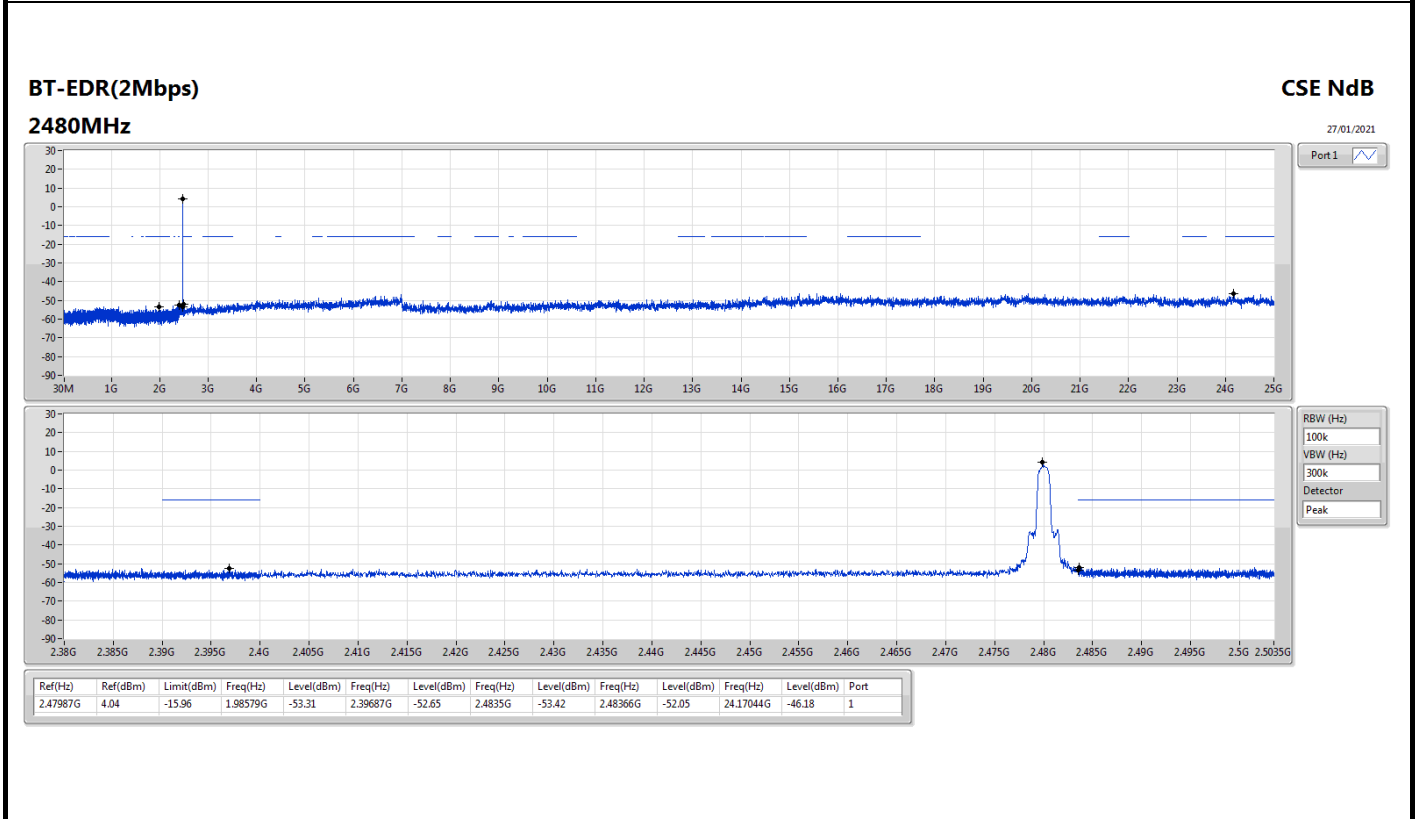
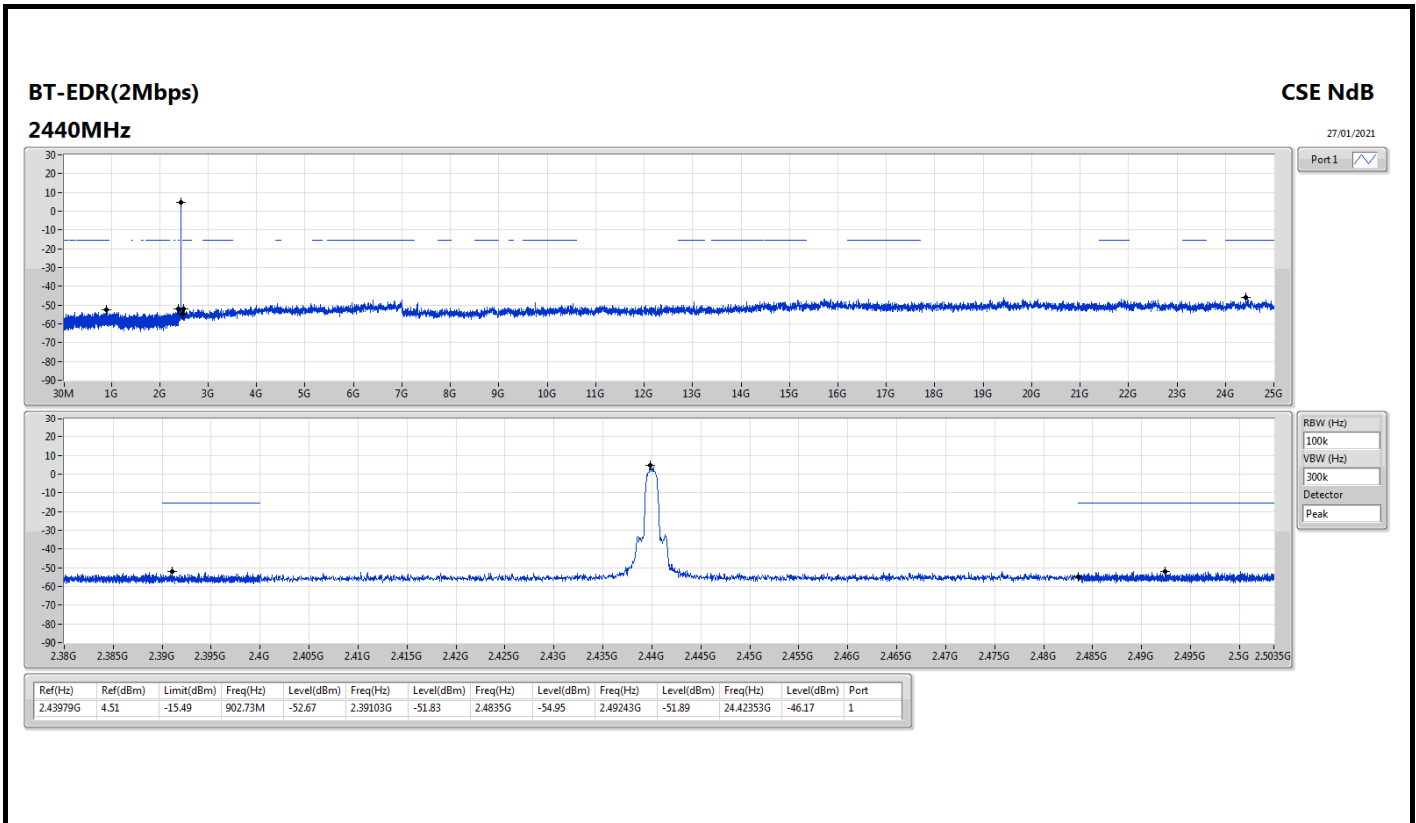
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-BR(1Mbps)	Pass	2.44G	3.40	-16.60	536.72M	-52.86	2.39169G	-53.17	2.4835G	-54.86	2.49756G	-51.61	16.44289G	-46.55	1
BT-EDR(2Mbps)	Pass	2.4018G	4.77	-15.23	1.99666G	-53.45	2.39987G	-48.15	2.4G	-49.22	2.48472G	-51.87	17.34275G	-46.59	1
BT-EDR(3Mbps)	Pass	2.402G	4.26	-15.74	795.22M	-53.27	2.39992G	-44.90	2.4G	-46.47	2.49987G	-52.34	15.18309G	-46.59	1

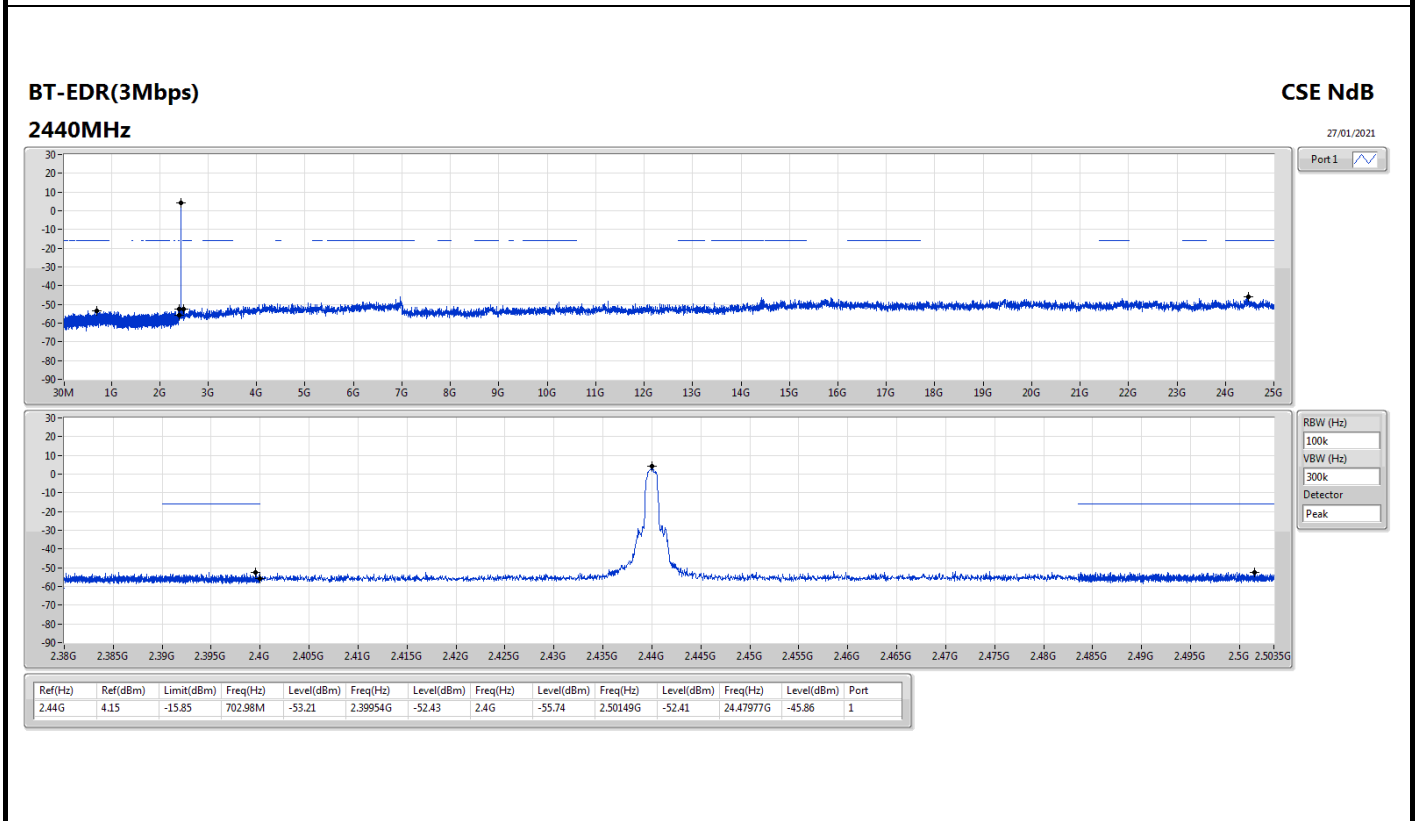
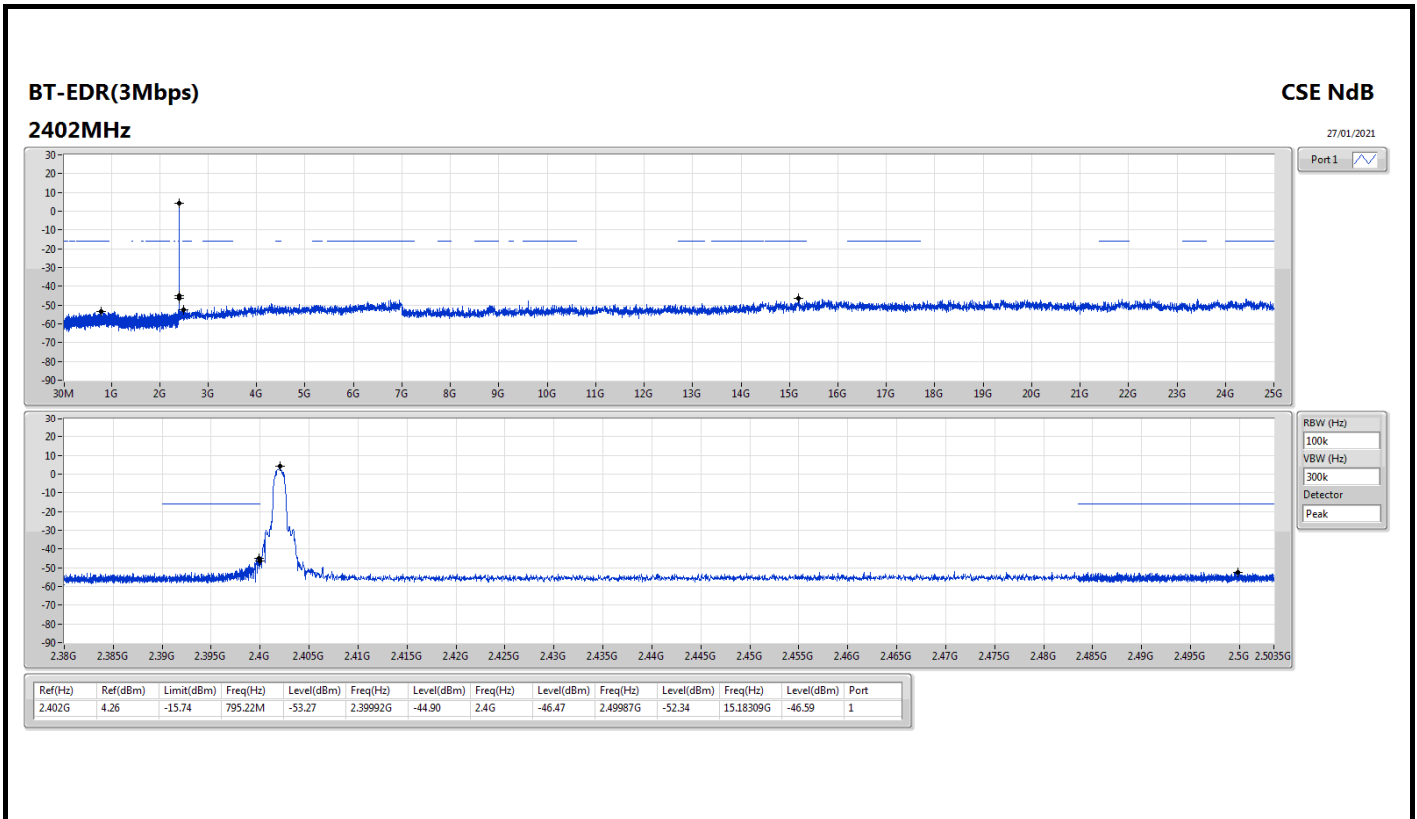
Result

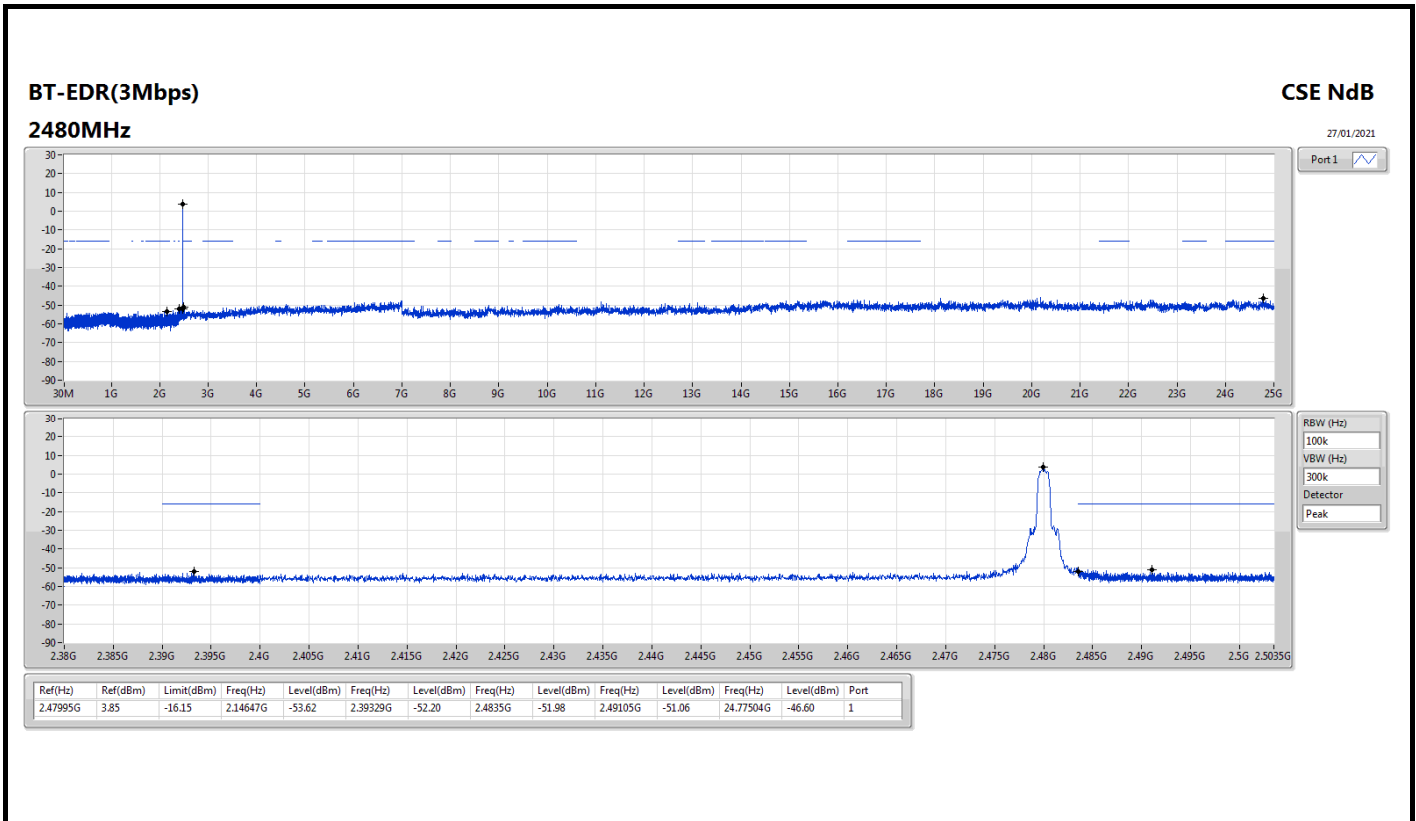
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.402G	3.50	-16.50	1.82804G	-53.69	2.39996G	-51.66	2.4G	-53.60	2.48423G	-51.92	6.95218G	-46.40	1
2440MHz	Pass	2.44G	3.40	-16.60	536.72M	-52.86	2.39169G	-53.17	2.4835G	-54.86	2.49756G	-51.61	16.44289G	-46.55	1
2480MHz	Pass	2.48003G	3.33	-16.67	841.34M	-52.86	2.39581G	-52.26	2.4835G	-54.75	2.50231G	-51.71	21.81393G	-46.39	1
BT-EDR(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.4018G	4.77	-15.23	1.99666G	-53.45	2.39987G	-48.15	2.4G	-49.22	2.48472G	-51.87	17.34275G	-46.59	1
2440MHz	Pass	2.43979G	4.51	-15.49	902.73M	-52.67	2.39103G	-51.83	2.4835G	-54.95	2.49243G	-51.89	24.42353G	-46.17	1
2480MHz	Pass	2.47987G	4.04	-15.96	1.98579G	-53.31	2.39687G	-52.65	2.4835G	-53.42	2.48366G	-52.05	24.17044G	-46.18	1
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.402G	4.26	-15.74	795.22M	-53.27	2.39992G	-44.90	2.4G	-46.47	2.49987G	-52.34	15.18309G	-46.59	1
2440MHz	Pass	2.44G	4.15	-15.85	702.98M	-53.21	2.39954G	-52.43	2.4G	-55.74	2.50149G	-52.41	24.47977G	-45.86	1
2480MHz	Pass	2.47995G	3.85	-16.15	2.14647G	-53.62	2.39329G	-52.20	2.4835G	-51.98	2.49105G	-51.06	24.77504G	-46.60	1







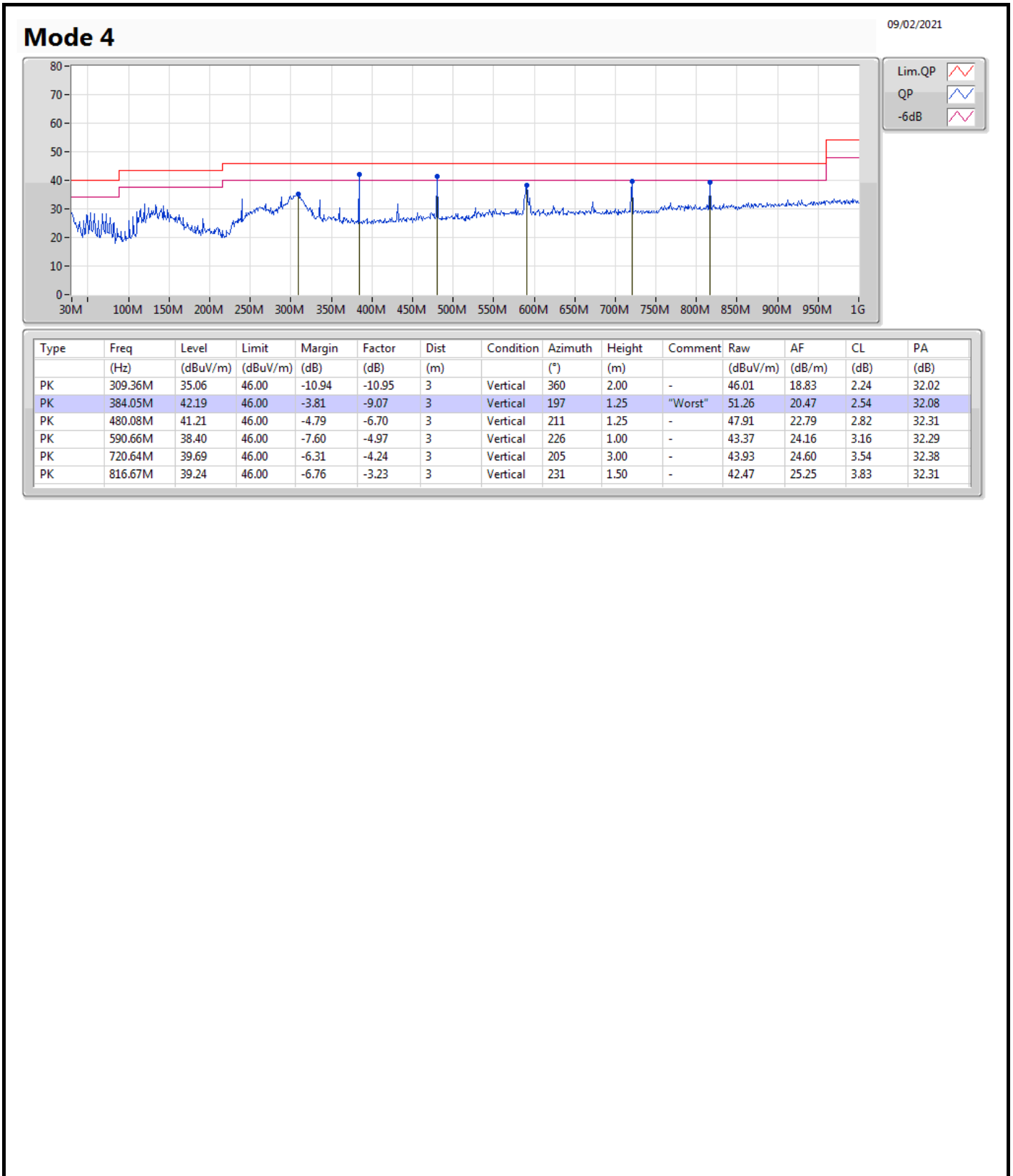


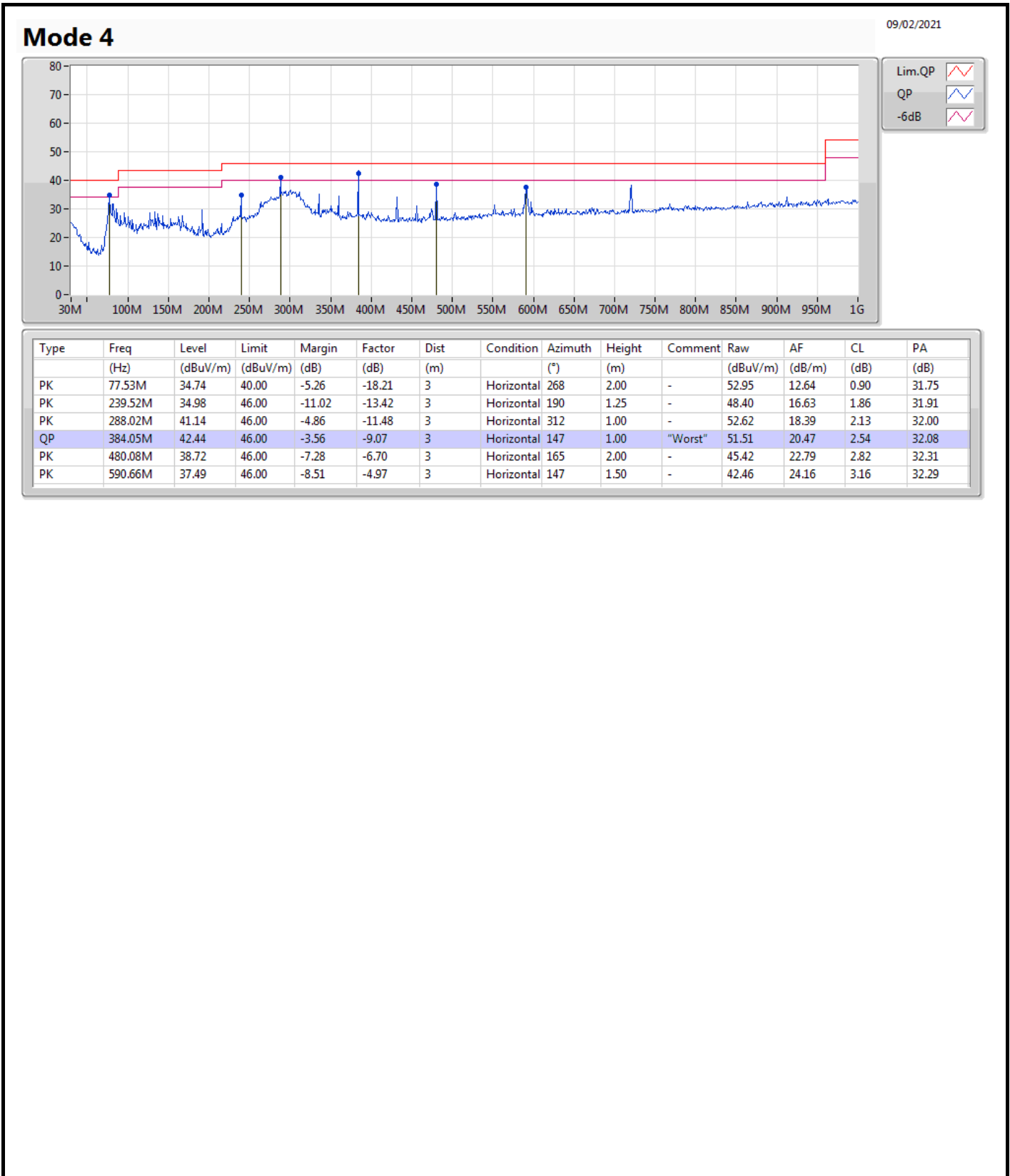




Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 4	Pass	QP	384.05M	42.44	46.00	-3.56	Horizontal







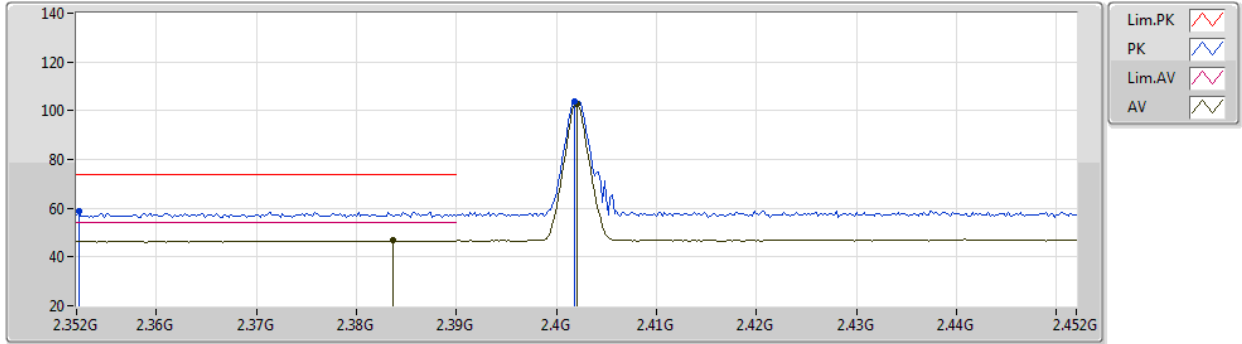
Summary

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-EDR(3Mbps)	Pass	AV	7.44012G	52.99	54.00	-1.01	3	Vertical	209	2.27	-

BT-BR(1Mbps)

12/01/2021

2402MHz_TX



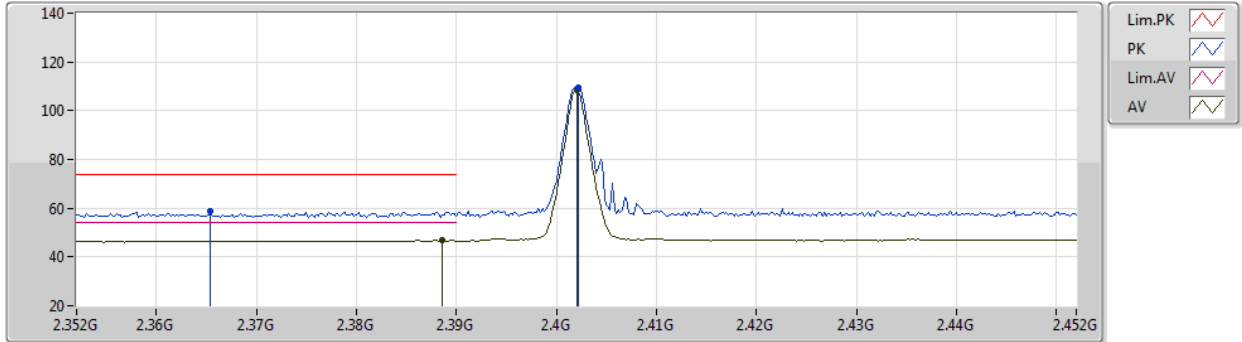
EUT Z_1TX
Setting 12
02-B-R-5

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	2.3522G	58.94	74.00	-15.06	28.22	3	Vertical	71	2.73	-	28.30	2.42	-
AV	2.3836G	46.69	54.00	-7.31	15.98	3	Vertical	71	2.73	-	28.30	2.41	-
PK	2.4018G	103.68	Inf	-Inf	72.98	3	Vertical	71	2.73	-	28.30	2.40	-
AV	2.402G	102.82	Inf	-Inf	72.12	3	Vertical	71	2.73	-	28.30	2.40	-

BT-BR(1Mbps)

12/01/2021

2402MHz_TX



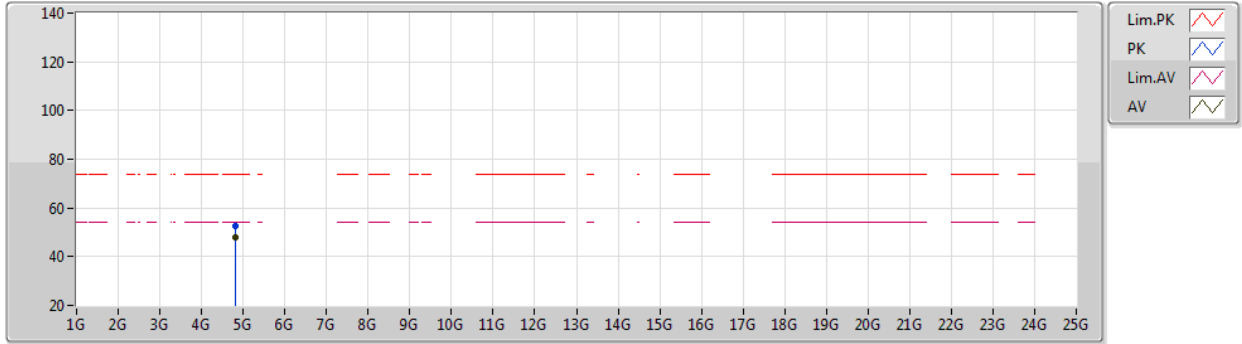
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Setting 12
02-B-R-5

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	2.3654G	58.98	74.00	-15.02	28.26	3	Horizontal	356	2.79	-	28.30	2.42	-
AV	2.3886G	46.90	54.00	-7.10	16.19	3	Horizontal	356	2.79	-	28.30	2.41	-
PK	2.4022G	109.37	Inf	-Inf	78.67	3	Horizontal	356	2.79	-	28.30	2.40	-
AV	2.402G	108.53	Inf	-Inf	77.83	3	Horizontal	356	2.79	-	28.30	2.40	-

BT-BR(1Mbps)

12/01/2021

2402MHz_TX



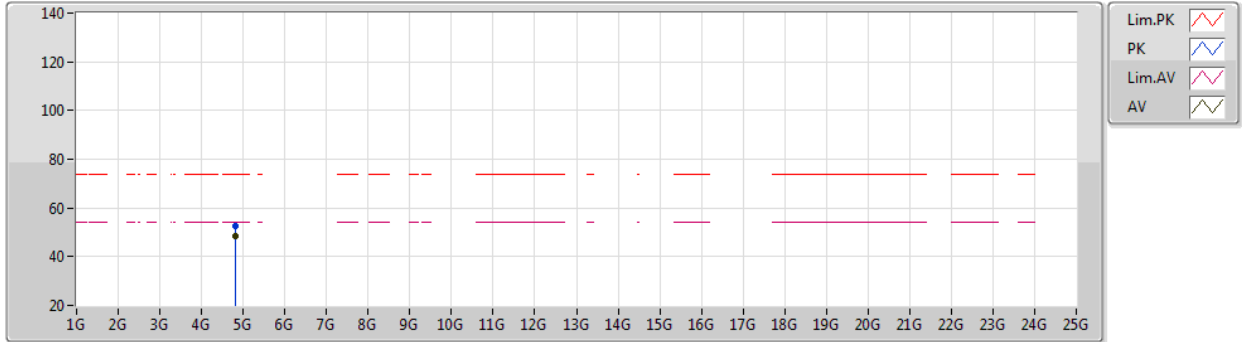
EUT X_1TX
Setting 12
02-B-R-5

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	4.8043G	52.53	74.00	-21.47	46.78	3	Vertical	186	2.62	-	32.82	4.70	31.77
AV	4.804G	48.01	54.00	-5.99	42.26	3	Vertical	186	2.62	-	32.82	4.70	31.77

BT-BR(1Mbps)

12/01/2021

2402MHz_TX



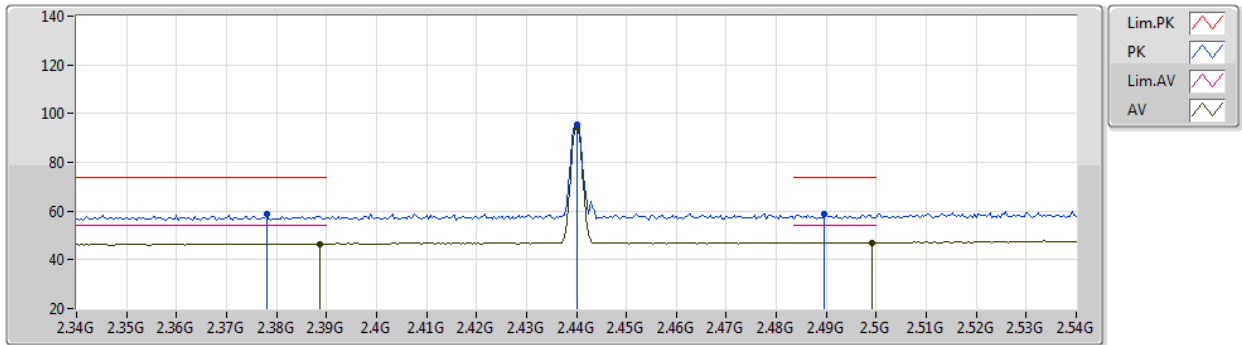
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Setting 12
02-B-R-5

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	4.8037G	52.84	74.00	-21.16	47.10	3	Horizontal	79	1.03	-	32.81	4.70	31.77
AV	4.804G	48.56	54.00	-5.44	42.81	3	Horizontal	79	1.03	-	32.82	4.70	31.77

BT-BR(1Mbps)

12/01/2021

2440MHz_TX



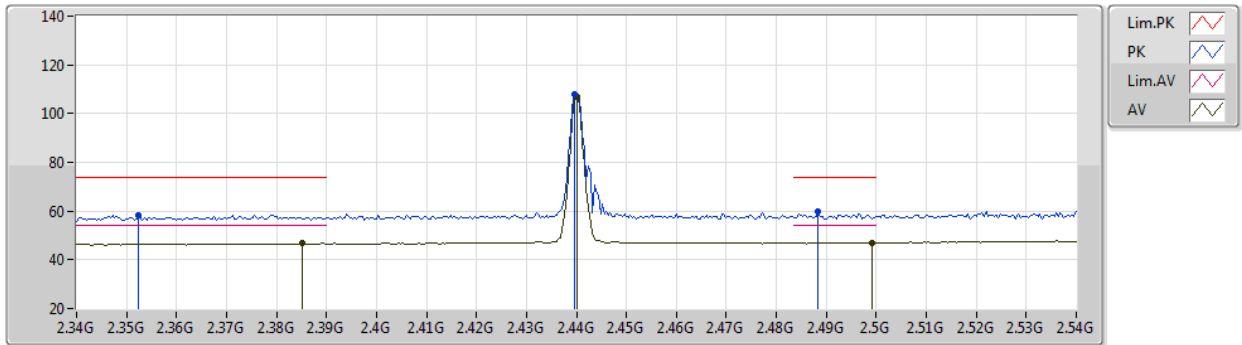
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Setting 10
02-B-R-5

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	2.378G	58.60	74.00	-15.40	27.89	3	Vertical	131	2.90	-	28.30	2.41	-
AV	2.3888G	46.58	54.00	-7.42	15.87	3	Vertical	131	2.90	-	28.30	2.41	-
PK	2.44G	95.53	Inf	-Inf	64.73	3	Vertical	131	2.90	-	28.38	2.42	-
AV	2.44G	94.64	Inf	-Inf	63.84	3	Vertical	131	2.90	-	28.38	2.42	-
PK	2.4896G	58.66	74.00	-15.34	27.66	3	Vertical	131	2.90	-	28.56	2.44	-
AV	2.4992G	47.09	54.00	-6.91	16.04	3	Vertical	131	2.90	-	28.60	2.45	-

BT-BR(1Mbps)

12/01/2021

2440MHz_TX



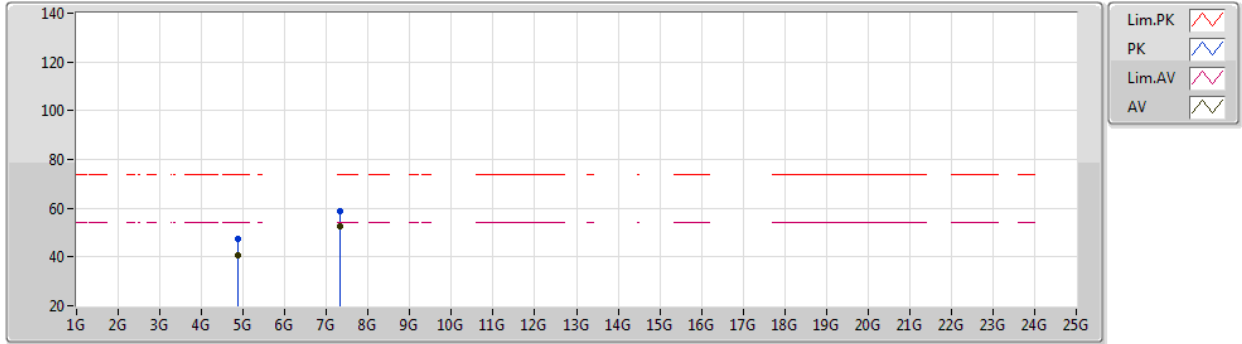
EUT_Z_1TX
Setting 10
02-B-R-5

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	2.3524G	58.49	74.00	-15.51	27.77	3	Horizontal	30	2.73	-	28.30	2.42	-
AV	2.3852G	46.64	54.00	-7.36	15.93	3	Horizontal	30	2.73	-	28.30	2.41	-
PK	2.4396G	107.92	Inf	-Inf	77.12	3	Horizontal	30	2.73	-	28.38	2.42	-
AV	2.44G	107.08	Inf	-Inf	76.28	3	Horizontal	30	2.73	-	28.38	2.42	-
PK	2.4884G	59.61	74.00	-14.39	28.62	3	Horizontal	30	2.73	-	28.55	2.44	-
AV	2.4992G	47.04	54.00	-6.96	15.99	3	Horizontal	30	2.73	-	28.60	2.45	-

BT-BR(1Mbps)

12/01/2021

2440MHz_TX



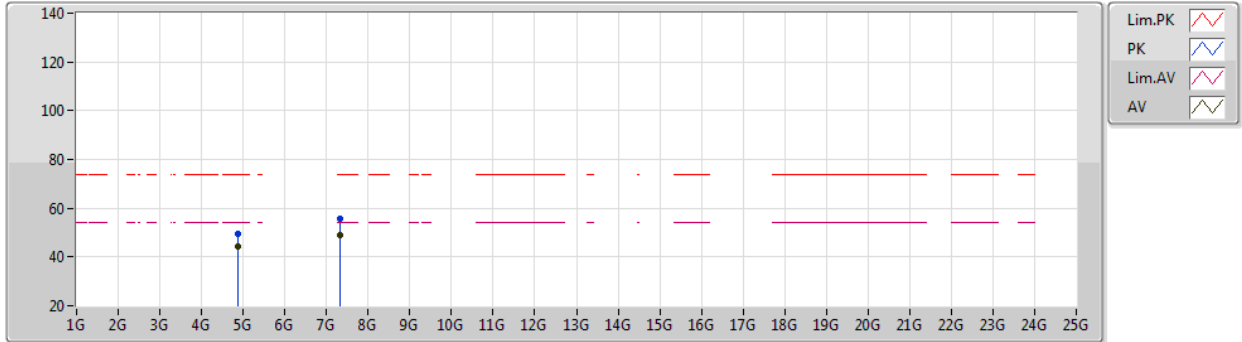
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Setting 10
02-B-R-5

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	4.88012G	47.59	74.00	-26.41	41.57	3	Vertical	57	1.80	-	33.12	4.70	31.80
AV	4.88G	40.78	54.00	-13.22	34.76	3	Vertical	57	1.80	-	33.12	4.70	31.80
PK	7.31946G	58.86	74.00	-15.14	49.09	3	Vertical	206	2.10	-	36.44	5.76	32.43
AV	7.32G	52.81	54.00	-1.19	43.04	3	Vertical	206	2.10	-	36.44	5.76	32.43

BT-BR(1Mbps)

12/01/2021

2440MHz_TX



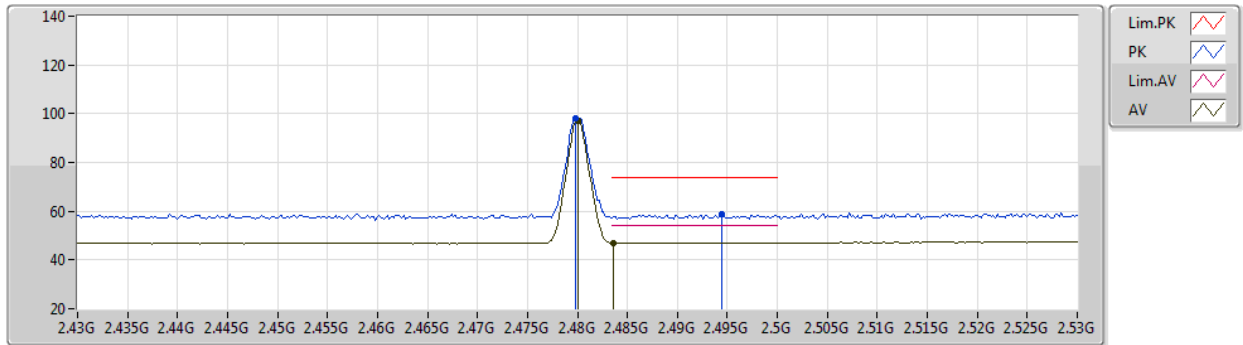
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Setting 10
02-B-R-5

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	49.74	74.00	-24.26	43.72	3	Horizontal	81	1.26	-	33.12	4.70	31.80
AV	4.88G	44.21	54.00	-9.79	38.19	3	Horizontal	81	1.26	-	33.12	4.70	31.80
PK	7.32042G	55.73	74.00	-18.27	45.96	3	Horizontal	186	2.24	-	36.44	5.76	32.43
AV	7.31994G	48.83	54.00	-5.17	39.06	3	Horizontal	186	2.24	-	36.44	5.76	32.43

BT-BR(1Mbps)

12/01/2021

2480MHz_TX



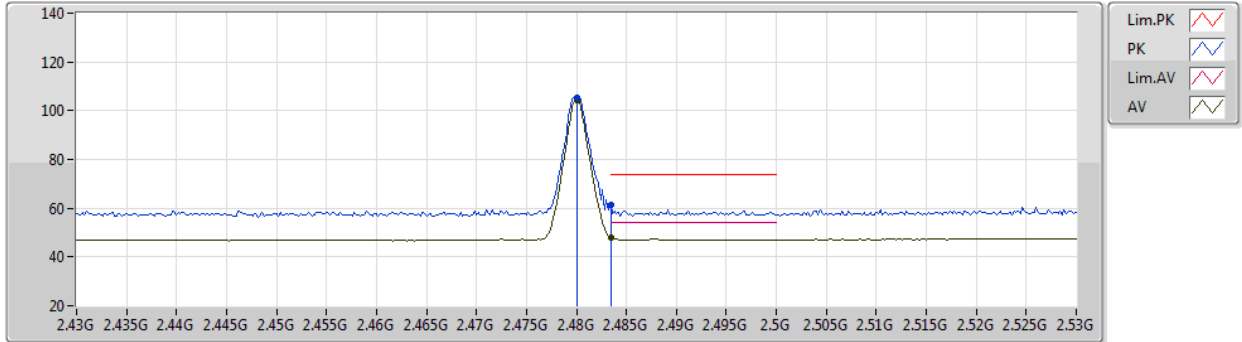
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Setting 8
02-B-R-5

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	97.97	Inf	-Inf	67.01	3	Vertical	111	2.87	-	28.52	2.44	-
AV	2.48G	97.05	Inf	-Inf	66.09	3	Vertical	111	2.87	-	28.52	2.44	-
PK	2.4944G	58.95	74.00	-15.05	27.92	3	Vertical	111	2.87	-	28.58	2.45	-
AV	2.4836G	47.12	54.00	-6.88	16.15	3	Vertical	111	2.87	-	28.53	2.44	-

BT-BR(1Mbps)

12/01/2021

2480MHz_TX



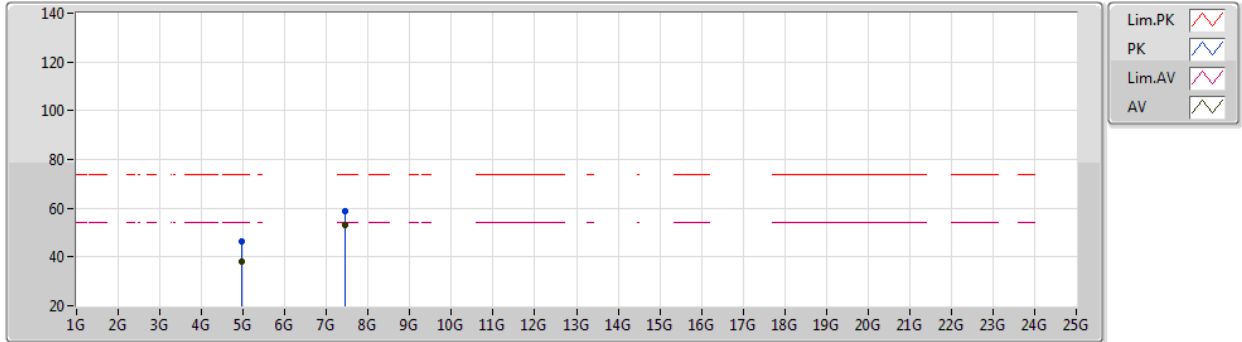
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Setting 8
02-B-R-5

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	105.42	Inf	-Inf	74.46	3	Horizontal	31	2.62	-	28.52	2.44	-
AV	2.48G	104.48	Inf	-Inf	73.52	3	Horizontal	31	2.62	-	28.52	2.44	-
PK	2.4835G	61.31	74.00	-12.69	30.34	3	Horizontal	31	2.62	-	28.53	2.44	-
AV	2.4835G	47.89	54.00	-6.11	16.92	3	Horizontal	31	2.62	-	28.53	2.44	-

BT-BR(1Mbps)

12/01/2021

2480MHz_TX



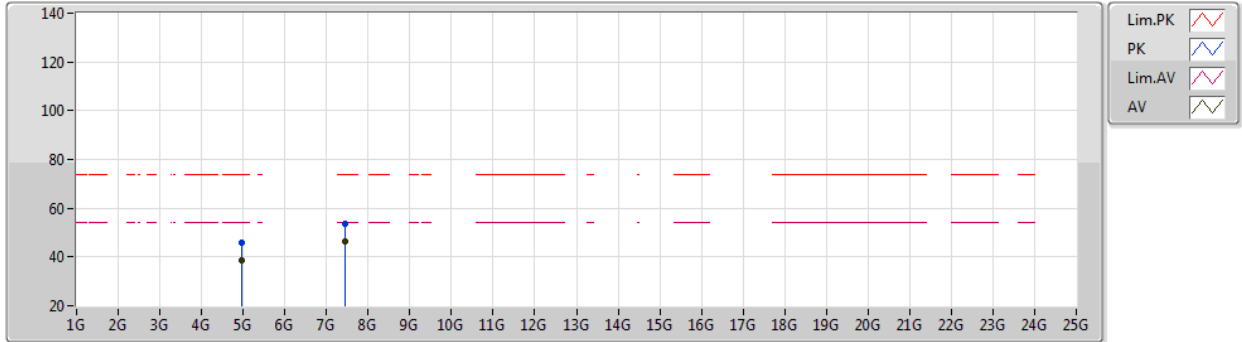
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Setting 8
02-B-R-5

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	4.96024G	46.27	74.00	-27.73	40.18	3	Vertical	126	2.03	-	33.22	4.70	31.83
AV	4.95994G	38.00	54.00	-16.00	31.91	3	Vertical	126	2.03	-	33.22	4.70	31.83
PK	7.44042G	58.66	74.00	-15.34	48.82	3	Vertical	212	2.26	-	36.48	5.84	32.48
AV	7.44G	52.91	54.00	-1.09	43.07	3	Vertical	212	2.26	-	36.48	5.84	32.48

BT-BR(1Mbps)

12/01/2021

2480MHz_TX



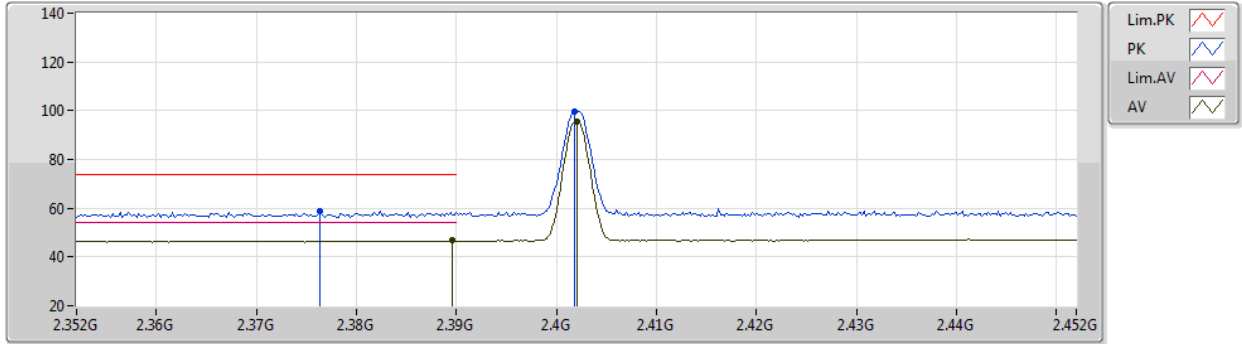
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Setting 8
02-B-R-5

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	4.9597G	46.06	74.00	-27.94	39.97	3	Horizontal	82	1.36	-	33.22	4.70	31.83
AV	4.95994G	38.69	54.00	-15.31	32.60	3	Horizontal	82	1.36	-	33.22	4.70	31.83
PK	7.44036G	53.70	74.00	-20.30	43.86	3	Horizontal	186	2.19	-	36.48	5.84	32.48
AV	7.44G	46.36	54.00	-7.64	36.52	3	Horizontal	186	2.19	-	36.48	5.84	32.48

BT-EDR(3Mbps)

12/01/2021

2402MHz_TX



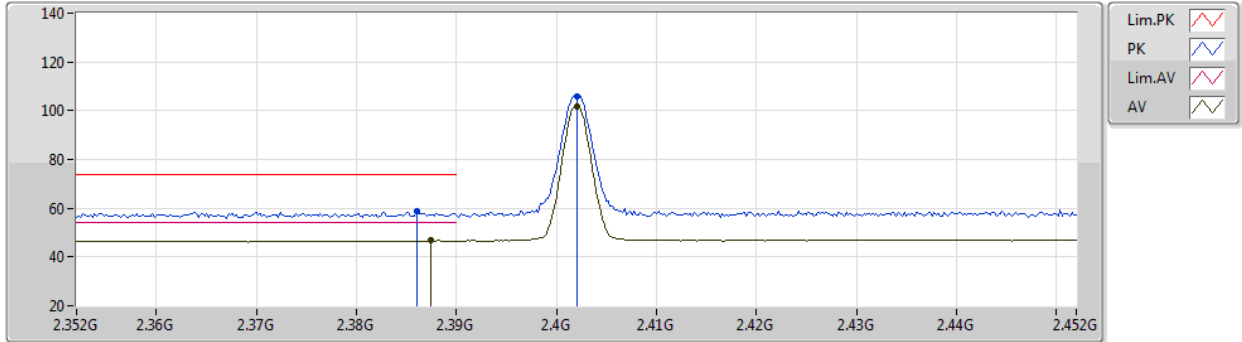
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Setting 10
02-B-R-5

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	2.3764G	59.00	74.00	-15.00	28.29	3	Vertical	70	2.75	-	28.30	2.41	-
AV	2.3896G	46.66	54.00	-7.34	15.95	3	Vertical	70	2.75	-	28.30	2.41	-
PK	2.4018G	99.57	Inf	-Inf	68.87	3	Vertical	70	2.75	-	28.30	2.40	-
AV	2.402G	95.46	Inf	-Inf	64.76	3	Vertical	70	2.75	-	28.30	2.40	-

BT-EDR(3Mbps)

12/01/2021

2402MHz_TX



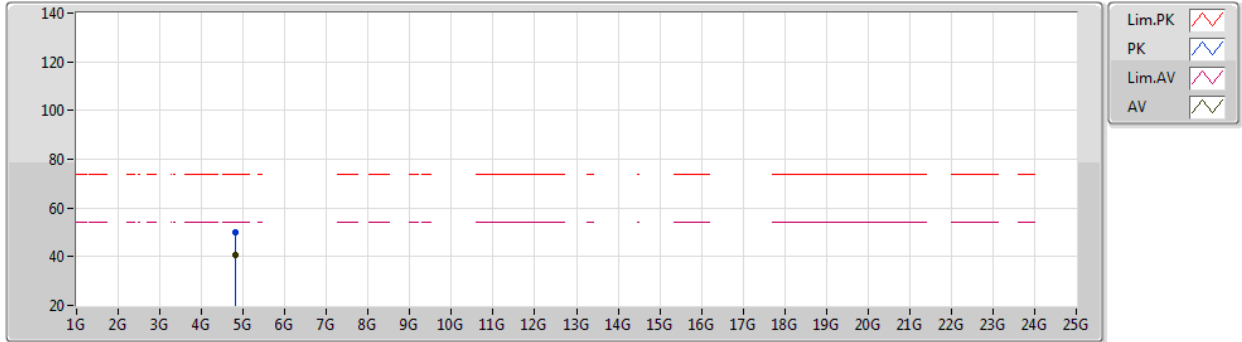
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Setting 10
02-B-R-5

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	2.386G	58.61	74.00	-15.39	27.90	3	Horizontal	356	2.78	-	28.30	2.41	-
AV	2.3874G	46.69	54.00	-7.31	15.98	3	Horizontal	356	2.78	-	28.30	2.41	-
PK	2.402G	105.86	Inf	-Inf	75.16	3	Horizontal	356	2.78	-	28.30	2.40	-
AV	2.402G	101.76	Inf	-Inf	71.06	3	Horizontal	356	2.78	-	28.30	2.40	-

BT-EDR(3Mbps)

12/01/2021

2402MHz_TX



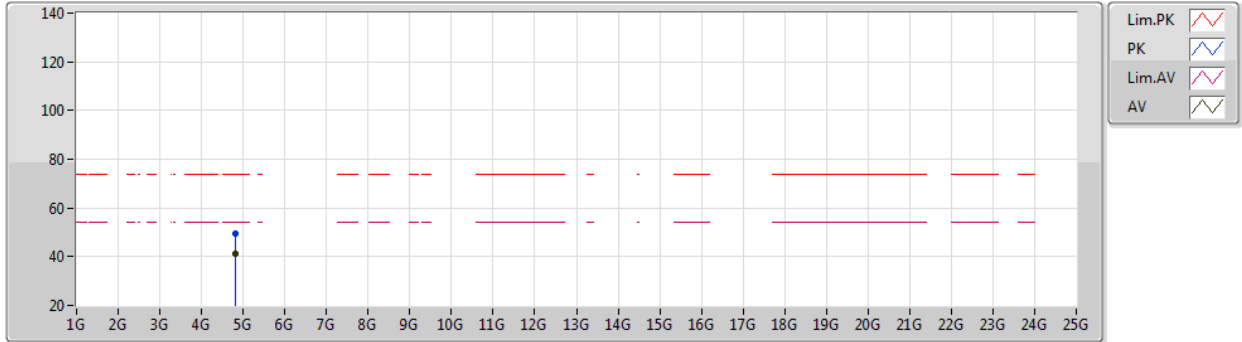
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Setting 10
02-B-R-5

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	49.95	74.00	-24.05	44.20	3	Vertical	192	2.47	-	32.82	4.70	31.77
AV	4.80394G	40.94	54.00	-13.06	35.19	3	Vertical	192	2.47	-	32.82	4.70	31.77

BT-EDR(3Mbps)

12/01/2021

2402MHz_TX



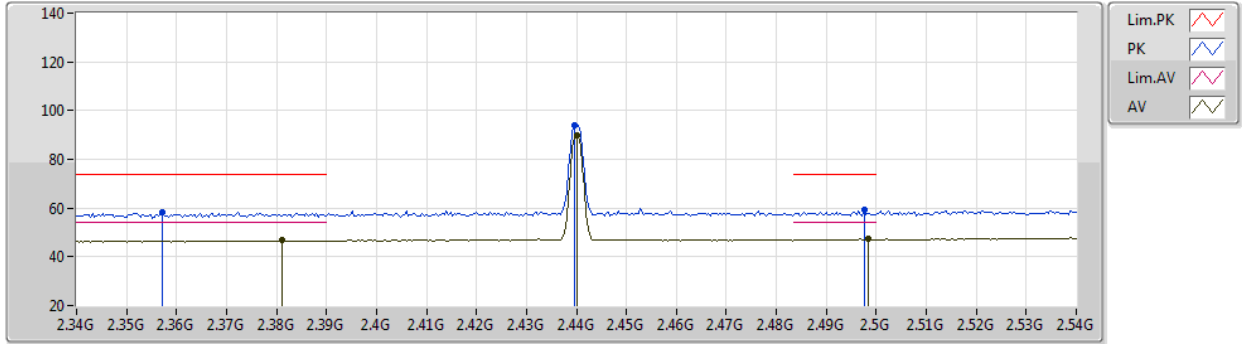
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Setting 10
02-B-R-5

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	4.80418G	49.60	74.00	-24.40	43.85	3	Horizontal	80	1.07	-	32.82	4.70	31.77
AV	4.804G	41.38	54.00	-12.62	35.63	3	Horizontal	80	1.07	-	32.82	4.70	31.77

BT-EDR(3Mbps)

06/01/2021

2440MHz_TX



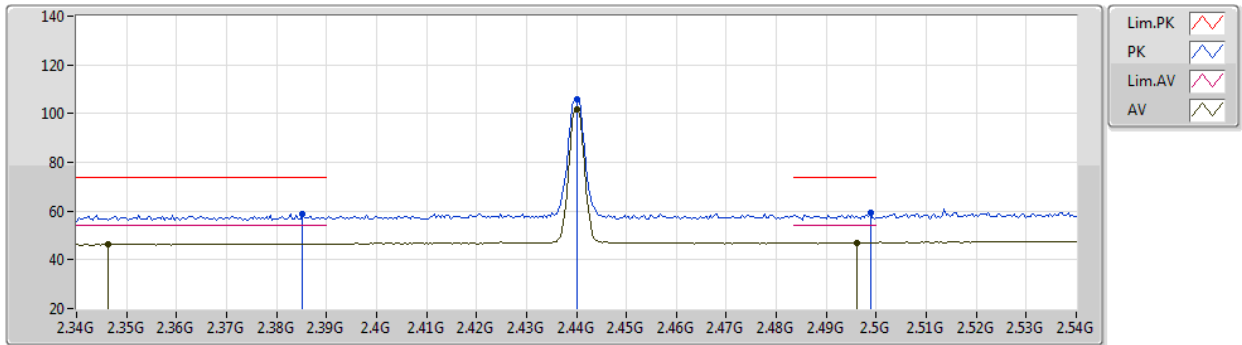
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Setting 10
02-B-R-5

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	2.3572G	58.48	74.00	-15.52	27.76	3	Vertical	134	2.90	-	28.30	2.42	-
AV	2.3812G	46.68	54.00	-7.32	15.97	3	Vertical	134	2.90	-	28.30	2.41	-
PK	2.4396G	94.11	Inf	-Inf	63.31	3	Vertical	134	2.90	-	28.38	2.42	-
AV	2.44G	89.99	Inf	-Inf	59.19	3	Vertical	134	2.90	-	28.38	2.42	-
PK	2.4976G	59.50	74.00	-14.50	28.46	3	Vertical	134	2.90	-	28.59	2.45	-
AV	2.4984G	47.23	54.00	-6.77	16.19	3	Vertical	134	2.90	-	28.59	2.45	-

BT-EDR(3Mbps)

06/01/2021

2440MHz_TX



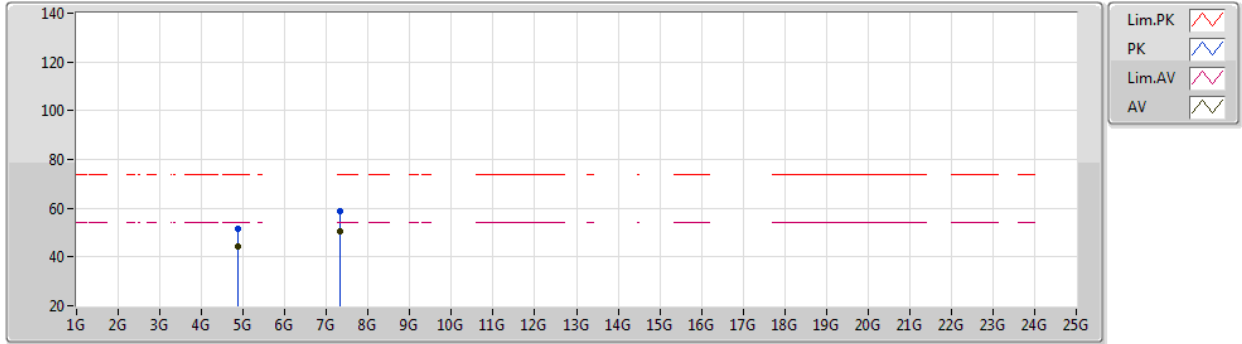
EUT Z_1TX
Setting 10
02-B-R-5

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	2.3852G	59.02	74.00	-14.98	28.31	3	Horizontal	29	2.73	-	28.30	2.41	-
AV	2.3464G	46.60	54.00	-7.40	15.89	3	Horizontal	29	2.73	-	28.28	2.43	-
PK	2.44G	106.05	Inf	-Inf	75.25	3	Horizontal	29	2.73	-	28.38	2.42	-
AV	2.44G	101.95	Inf	-Inf	71.15	3	Horizontal	29	2.73	-	28.38	2.42	-
PK	2.4988G	59.38	74.00	-14.62	28.33	3	Horizontal	29	2.73	-	28.60	2.45	-
AV	2.496G	47.02	54.00	-6.98	15.99	3	Horizontal	29	2.73	-	28.58	2.45	-

BT-EDR(3Mbps)

06/01/2021

2440MHz_TX



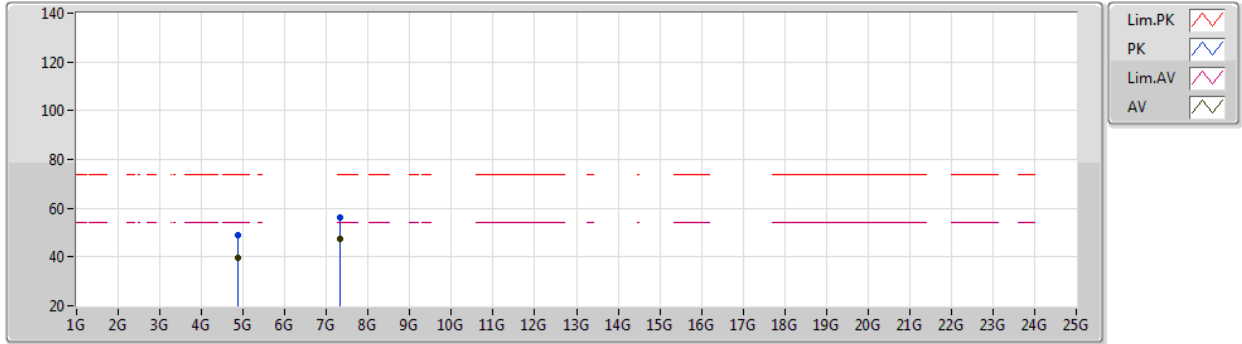
EUT X_1TX
Setting 10
02-B-K-4

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	4.87955G	51.71	74.00	-22.29	45.69	3	Vertical	193	2.55	-	33.12	4.70	31.80
AV	4.87994G	44.27	54.00	-9.73	38.25	3	Vertical	193	2.55	-	33.12	4.70	31.80
PK	7.31985G	58.59	74.00	-15.41	48.82	3	Vertical	205	2.33	-	36.44	5.76	32.43
AV	7.32012G	50.31	54.00	-3.69	40.54	3	Vertical	205	2.33	-	36.44	5.76	32.43

BT-EDR(3Mbps)

06/01/2021

2440MHz_TX



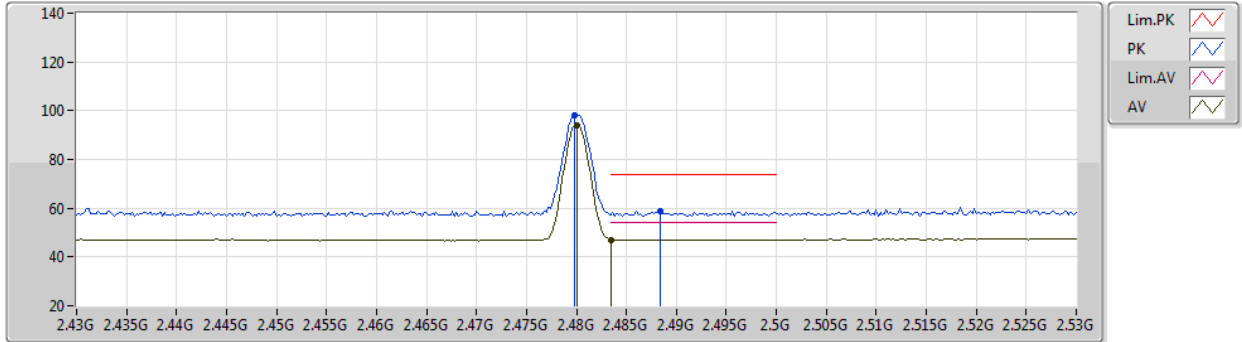
EUT X_1TX
Setting 10
02-B-K-4

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	4.87985G	48.80	74.00	-25.20	42.78	3	Horizontal	69	1.82	-	33.12	4.70	31.80
AV	4.87989G	39.78	54.00	-14.22	33.76	3	Horizontal	69	1.82	-	33.12	4.70	31.80
PK	7.31947G	56.39	74.00	-17.61	46.62	3	Horizontal	65	1.59	-	36.44	5.76	32.43
AV	7.32006G	47.65	54.00	-6.35	37.88	3	Horizontal	65	1.59	-	36.44	5.76	32.43

BT-EDR(3Mbps)

12/01/2021

2480MHz_TX



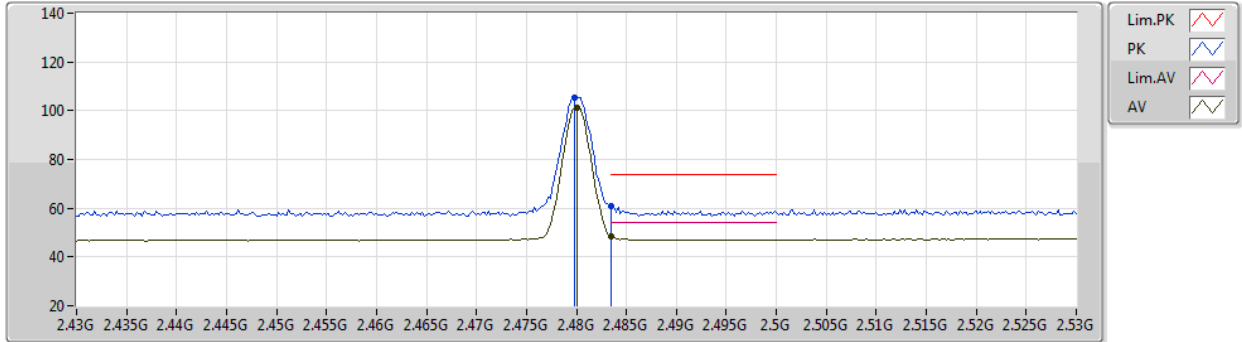
EUT Z_1TX
Setting 10
02-B-R-5

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	98.06	Inf	-Inf	67.10	3	Vertical	110	2.87	-	28.52	2.44	-
AV	2.48G	93.84	Inf	-Inf	62.88	3	Vertical	110	2.87	-	28.52	2.44	-
PK	2.4884G	58.76	74.00	-15.24	27.77	3	Vertical	110	2.87	-	28.55	2.44	-
AV	2.4835G	47.08	54.00	-6.92	16.11	3	Vertical	110	2.87	-	28.53	2.44	-

BT-EDR(3Mbps)

12/01/2021

2480MHz_TX



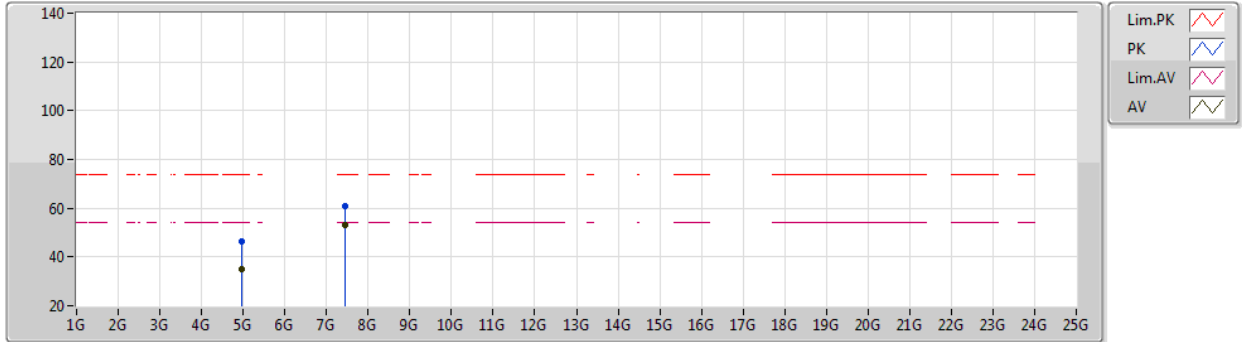
EUT_Z_1TX
Setting 10
02-B-R-5

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	105.53	Inf	-Inf	74.57	3	Horizontal	31	2.66	-	28.52	2.44	-
AV	2.48G	101.41	Inf	-Inf	70.45	3	Horizontal	31	2.66	-	28.52	2.44	-
PK	2.4835G	60.93	74.00	-13.07	29.96	3	Horizontal	31	2.66	-	28.53	2.44	-
AV	2.4835G	48.70	54.00	-5.30	17.73	3	Horizontal	31	2.66	-	28.53	2.44	-

BT-EDR(3Mbps)

12/01/2021

2480MHz_TX



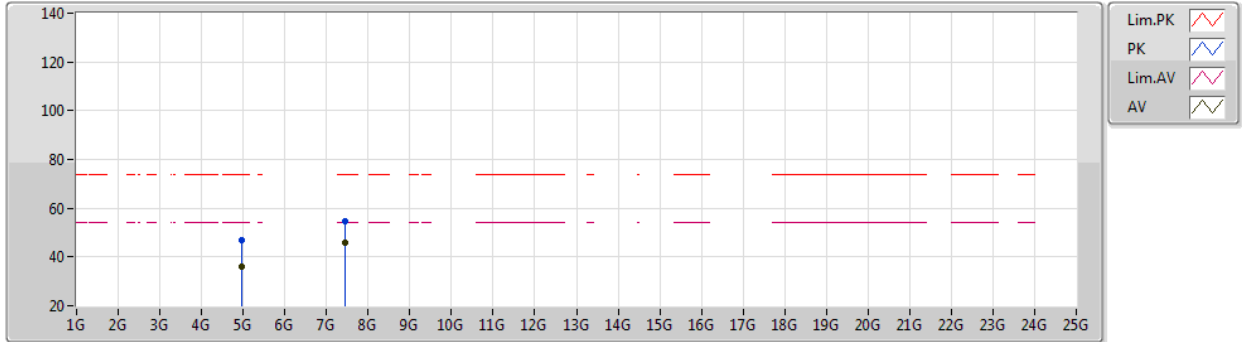
EUT X_1TX
Setting 10
02-B-R-5

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	4.95982G	46.47	74.00	-27.53	40.38	3	Vertical	128	1.80	-	33.22	4.70	31.83
AV	4.95988G	34.92	54.00	-19.08	28.83	3	Vertical	128	1.80	-	33.22	4.70	31.83
PK	7.43994G	60.63	74.00	-13.37	50.79	3	Vertical	209	2.27	-	36.48	5.84	32.48
AV	7.44012G	52.99	54.00	-1.01	43.15	3	Vertical	209	2.27	-	36.48	5.84	32.48

BT-EDR(3Mbps)

12/01/2021

2480MHz_TX



EUT X_1TX
Setting 10
02-B-R-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	46.68	74.00	-27.32	40.59	3	Horizontal	82	1.65	-	33.22	4.70	31.83
AV	4.96006G	36.13	54.00	-17.87	30.04	3	Horizontal	82	1.65	-	33.22	4.70	31.83
PK	7.43928G	54.70	74.00	-19.30	44.86	3	Horizontal	183	2.19	-	36.48	5.84	32.48
AV	7.44006G	45.91	54.00	-8.09	36.07	3	Horizontal	183	2.19	-	36.48	5.84	32.48



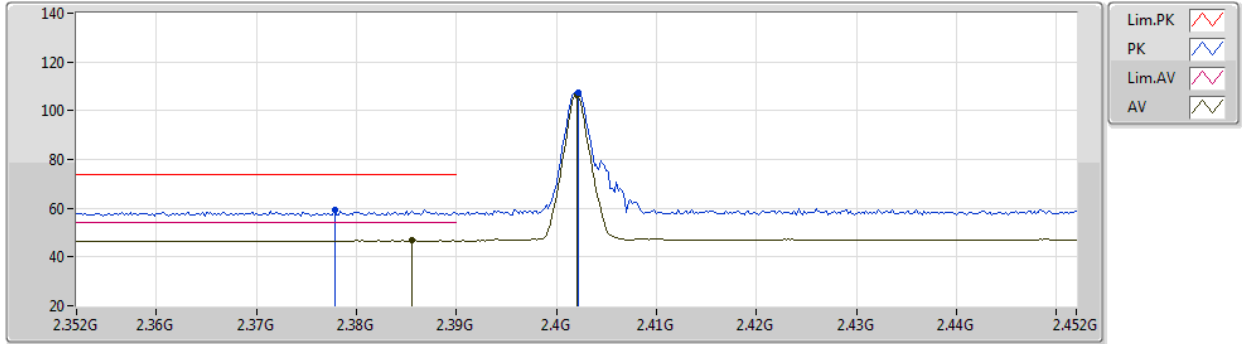
Summary

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-BR(1Mbps)	Pass	AV	7.31994G	50.65	54.00	-3.35	3	Vertical	181	2.11	-

BT-BR(1Mbps)

13/01/2021

2402MHz_TX



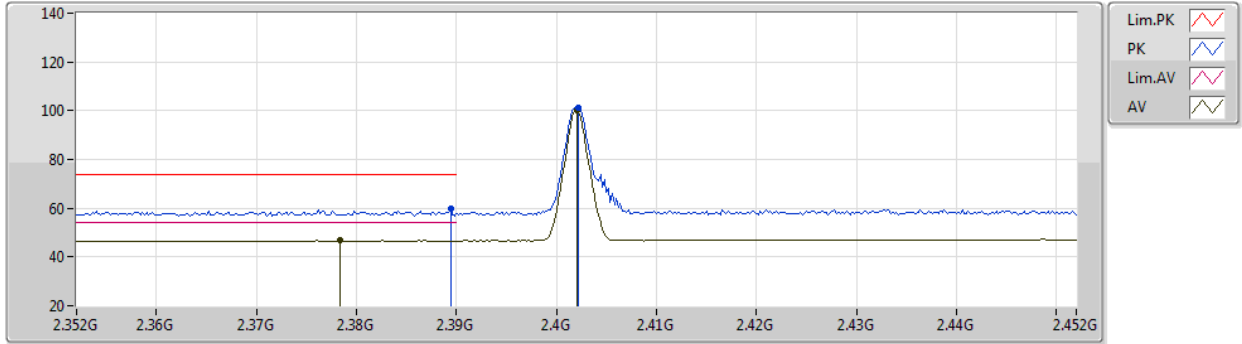
EUT X_1TX
Setting 12
02-B-K-4

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	2.3778G	59.48	74.00	-14.52	28.77	3	Vertical	32	2.59	-	28.30	2.41	-
AV	2.3856G	46.75	54.00	-7.25	16.04	3	Vertical	32	2.59	-	28.30	2.41	-
PK	2.4022G	107.32	Inf	-Inf	76.62	3	Vertical	32	2.59	-	28.30	2.40	-
AV	2.402G	106.40	Inf	-Inf	75.70	3	Vertical	32	2.59	-	28.30	2.40	-

BT-BR(1Mbps)

13/01/2021

2402MHz_TX



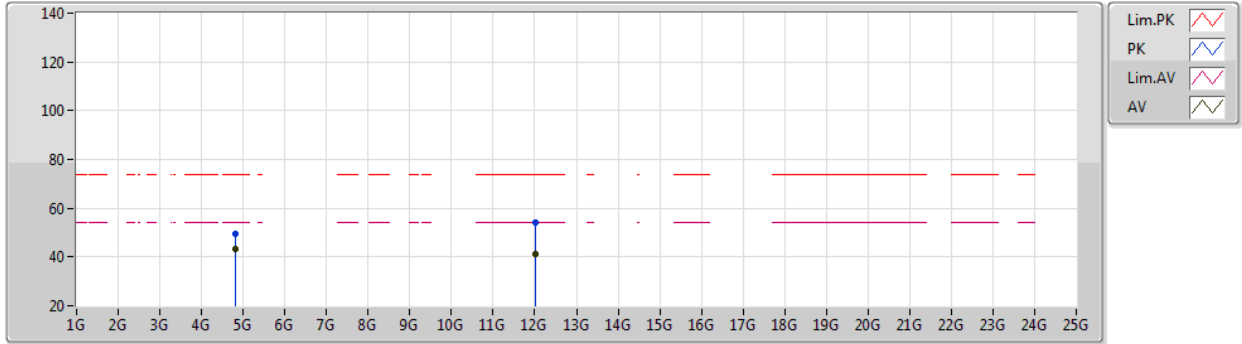
EUT X_1TX
Setting 12
02-B-K-4

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	2.3894G	59.60	74.00	-14.40	28.89	3	Horizontal	14	1.20	-	28.30	2.41	-
AV	2.3784G	46.77	54.00	-7.23	16.06	3	Horizontal	14	1.20	-	28.30	2.41	-
PK	2.4022G	101.03	Inf	-Inf	70.33	3	Horizontal	14	1.20	-	28.30	2.40	-
AV	2.402G	100.20	Inf	-Inf	69.50	3	Horizontal	14	1.20	-	28.30	2.40	-

BT-BR(1Mbps)

13/01/2021

2402MHz_TX



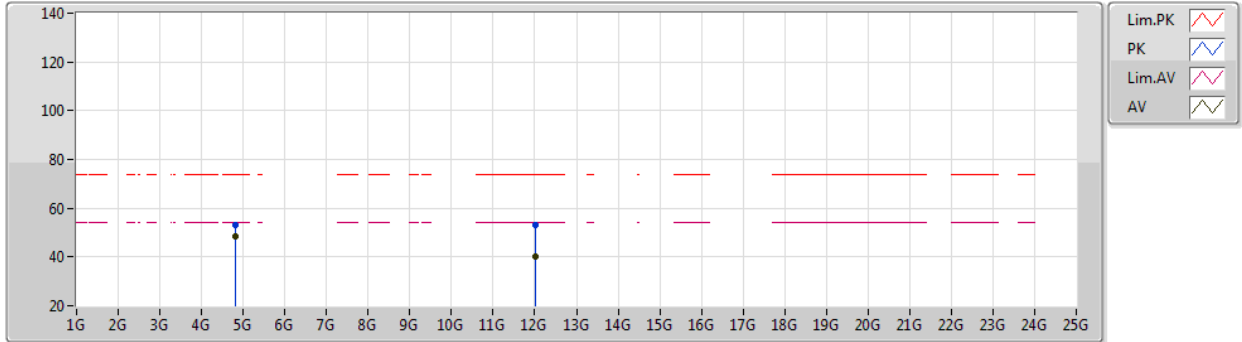
EUT Y_1TX
Setting 12
02-B-K-4

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	4.80368G	49.28	74.00	-24.72	43.54	3	Vertical	321	1.43	-	32.81	4.70	31.77
AV	4.804G	43.21	54.00	-10.79	37.46	3	Vertical	321	1.43	-	32.82	4.70	31.77
PK	12.01064G	54.36	74.00	-19.64	40.23	3	Vertical	61	1.55	-	39.27	7.80	32.94
AV	12.01026G	40.97	54.00	-13.03	26.84	3	Vertical	61	1.55	-	39.27	7.80	32.94

BT-BR(1Mbps)

13/01/2021

2402MHz_TX



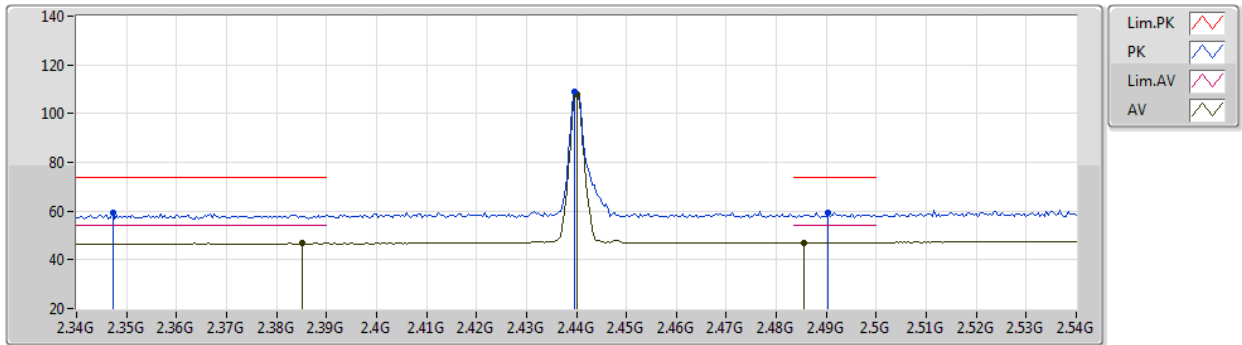
EUT Y_1TX
Setting 12
02-B-K-4

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	4.80422G	52.91	74.00	-21.09	47.16	3	Horizontal	219	1.13	-	32.82	4.70	31.77
AV	4.80398G	48.55	54.00	-5.45	42.80	3	Horizontal	219	1.13	-	32.82	4.70	31.77
PK	12.01066G	53.22	74.00	-20.78	39.09	3	Horizontal	312	2.50	-	39.27	7.80	32.94
AV	12.00516G	40.42	54.00	-13.58	26.28	3	Horizontal	312	2.50	-	39.28	7.80	32.94

BT-BR(1Mbps)

13/01/2021

2440MHz_TX



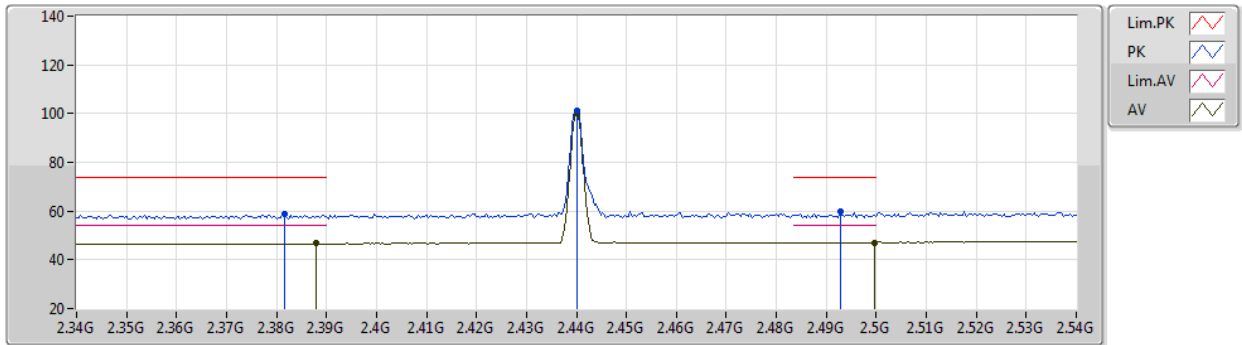
EUT X_1TX
Setting 12
02-B-K-4

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	2.3472G	59.24	74.00	-14.76	28.53	3	Vertical	36	2.07	-	28.28	2.43	-
AV	2.3852G	46.70	54.00	-7.30	15.99	3	Vertical	36	2.07	-	28.30	2.41	-
PK	2.4396G	108.76	Inf	-Inf	77.96	3	Vertical	36	2.07	-	28.38	2.42	-
AV	2.44G	108.08	Inf	-Inf	77.28	3	Vertical	36	2.07	-	28.38	2.42	-
PK	2.4904G	59.50	74.00	-14.50	28.49	3	Vertical	36	2.07	-	28.56	2.45	-
AV	2.4856G	47.13	54.00	-6.87	16.15	3	Vertical	36	2.07	-	28.54	2.44	-

BT-BR(1Mbps)

13/01/2021

2440MHz_TX



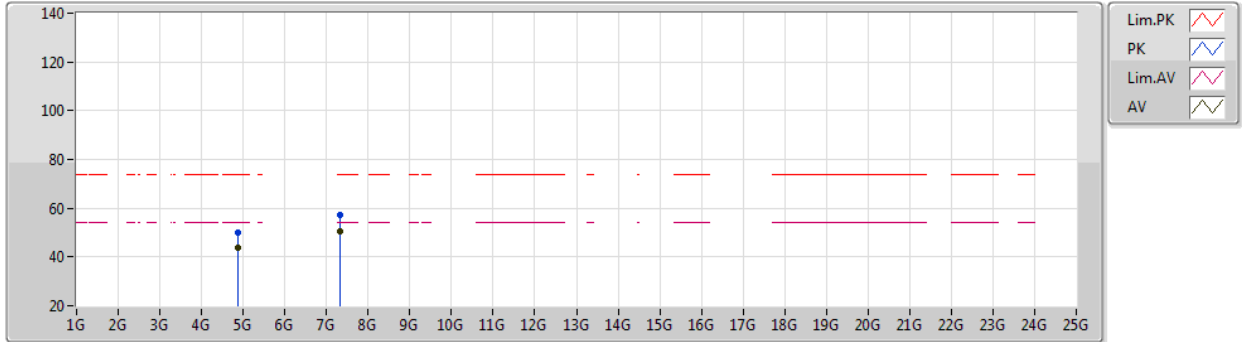
EUT X_1TX
Setting 12
02-B-K-4

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	2.3816G	58.67	74.00	-15.33	27.96	3	Horizontal	220	2.91	-	28.30	2.41	-
AV	2.388G	46.69	54.00	-7.31	15.98	3	Horizontal	220	2.91	-	28.30	2.41	-
PK	2.44G	101.08	Inf	-Inf	70.28	3	Horizontal	220	2.91	-	28.38	2.42	-
AV	2.44G	100.10	Inf	-Inf	69.30	3	Horizontal	220	2.91	-	28.38	2.42	-
PK	2.4928G	60.02	74.00	-13.98	29.00	3	Horizontal	220	2.91	-	28.57	2.45	-
AV	2.4996G	47.10	54.00	-6.90	16.05	3	Horizontal	220	2.91	-	28.60	2.45	-

BT-BR(1Mbps)

13/01/2021

2440MHz_TX



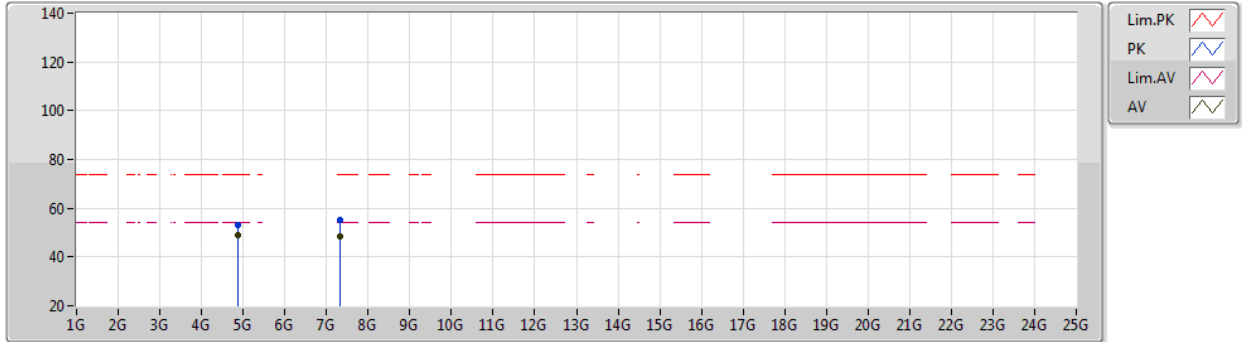
EUT Y_1TX
Setting 12
02-B-K-4

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	4.87962G	50.07	74.00	-23.93	44.05	3	Vertical	137	2.21	-	33.12	4.70	31.80
AV	4.88G	43.92	54.00	-10.08	37.90	3	Vertical	137	2.21	-	33.12	4.70	31.80
PK	7.32044G	57.02	74.00	-16.98	47.25	3	Vertical	181	2.11	-	36.44	5.76	32.43
AV	7.31994G	50.65	54.00	-3.35	40.88	3	Vertical	181	2.11	-	36.44	5.76	32.43

BT-BR(1Mbps)

13/01/2021

2440MHz_TX



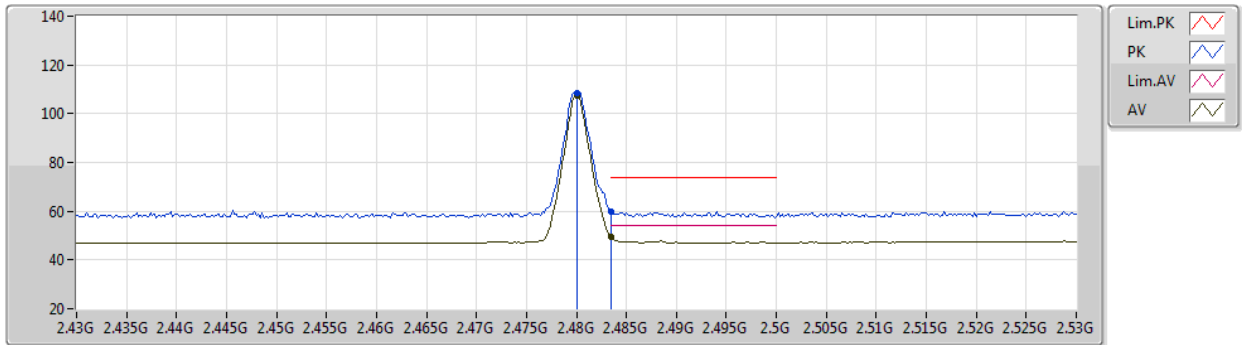
EUT Y_1TX
Setting 12
02-B-K-4

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	4.87958G	53.12	74.00	-20.88	47.10	3	Horizontal	218	2.05	-	33.12	4.70	31.80
AV	4.87996G	49.09	54.00	-4.91	43.07	3	Horizontal	218	2.05	-	33.12	4.70	31.80
PK	7.32046G	55.14	74.00	-18.86	45.37	3	Horizontal	167	2.02	-	36.44	5.76	32.43
AV	7.31994G	48.24	54.00	-5.76	38.47	3	Horizontal	167	2.02	-	36.44	5.76	32.43

BT-BR(1Mbps)

13/01/2021

2480MHz_TX



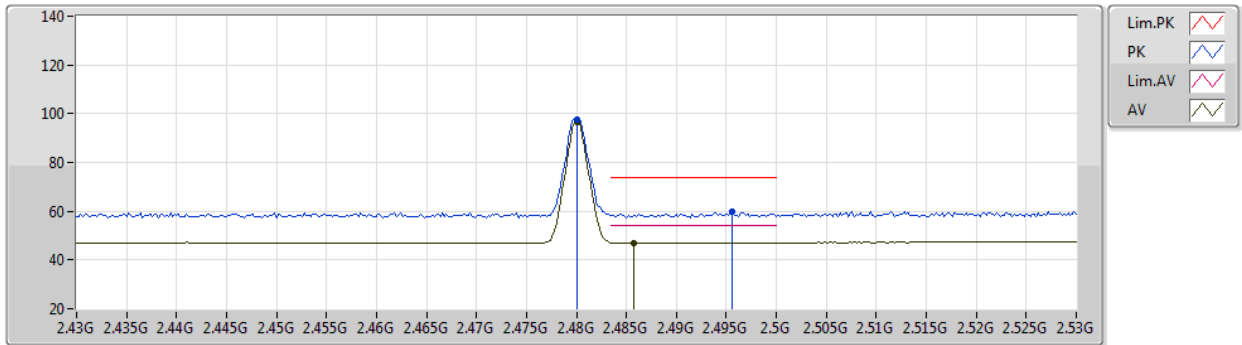
EUT X_1TX
Setting 11
02-B-K-4

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	108.46	Inf	-Inf	77.50	3	Vertical	36	2.73	-	28.52	2.44	-
AV	2.48G	107.63	Inf	-Inf	76.67	3	Vertical	36	2.73	-	28.52	2.44	-
PK	2.4835G	60.06	74.00	-13.94	29.09	3	Vertical	36	2.73	-	28.53	2.44	-
AV	2.4835G	49.64	54.00	-4.36	18.67	3	Vertical	36	2.73	-	28.53	2.44	-

BT-BR(1Mbps)

13/01/2021

2480MHz_TX



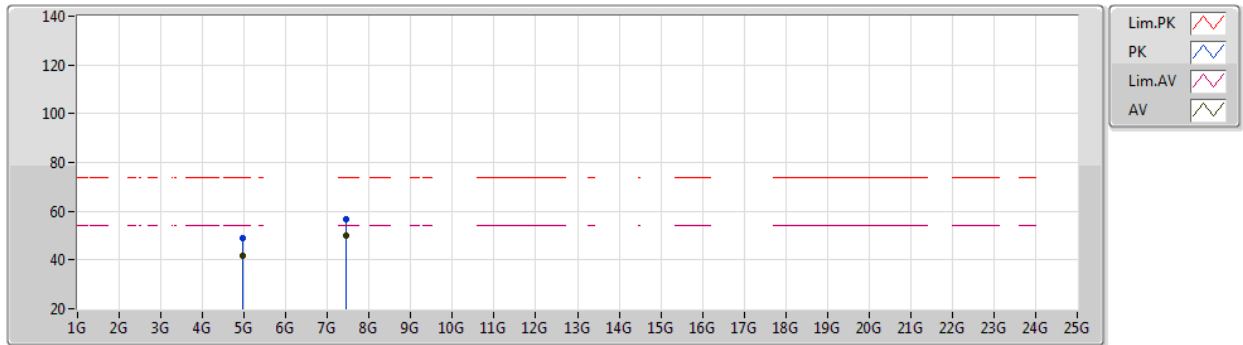
EUT X_1TX
Setting 11
02-B-K-4

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	97.62	Inf	-Inf	66.66	3	Horizontal	215	1.88	-	28.52	2.44	-
AV	2.48G	96.70	Inf	-Inf	65.74	3	Horizontal	215	1.88	-	28.52	2.44	-
PK	2.4956G	59.58	74.00	-14.42	28.55	3	Horizontal	215	1.88	-	28.58	2.45	-
AV	2.4858G	47.12	54.00	-6.88	16.14	3	Horizontal	215	1.88	-	28.54	2.44	-

BT-BR(1Mbps)

13/01/2021

2480MHz_TX



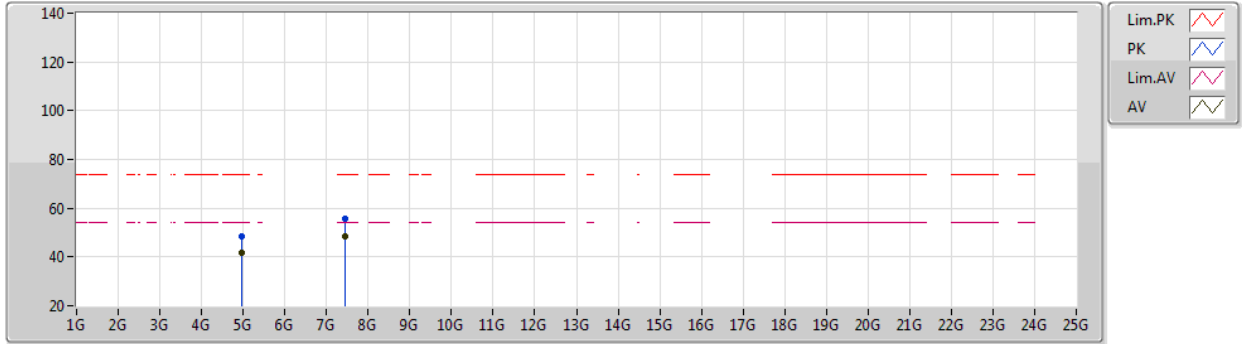
EUT Y_1TX
Setting 11
02-B-K-4

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	4.96018G	48.78	74.00	-25.22	42.69	3	Vertical	221	2.63	-	33.22	4.70	31.83
AV	4.95998G	41.77	54.00	-12.23	35.68	3	Vertical	221	2.63	-	33.22	4.70	31.83
PK	7.43952G	56.59	74.00	-17.41	46.75	3	Vertical	238	1.68	-	36.48	5.84	32.48
AV	7.43996G	50.06	54.00	-3.94	40.22	3	Vertical	238	1.68	-	36.48	5.84	32.48

BT-BR(1Mbps)

13/01/2021

2480MHz_TX



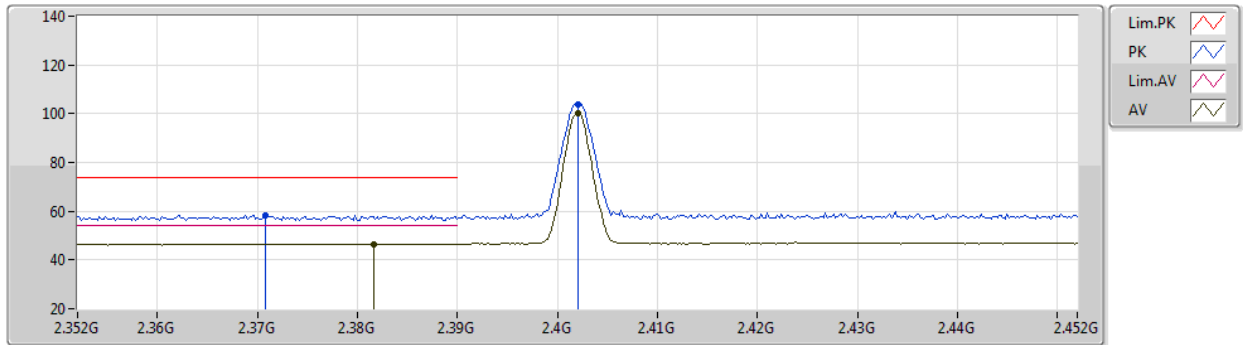
EUT Y_1TX
Setting 11
02-B-K-4

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	4.95998G	48.27	74.00	-25.73	42.18	3	Horizontal	222	2.64	-	33.22	4.70	31.83
AV	4.95998G	41.72	54.00	-12.28	35.63	3	Horizontal	222	2.64	-	33.22	4.70	31.83
PK	7.44038G	55.83	74.00	-18.17	45.99	3	Horizontal	183	2.01	-	36.48	5.84	32.48
AV	7.43994G	48.34	54.00	-5.66	38.50	3	Horizontal	183	2.01	-	36.48	5.84	32.48

BT-EDR(3Mbps)

12/01/2021

2402MHz_TX



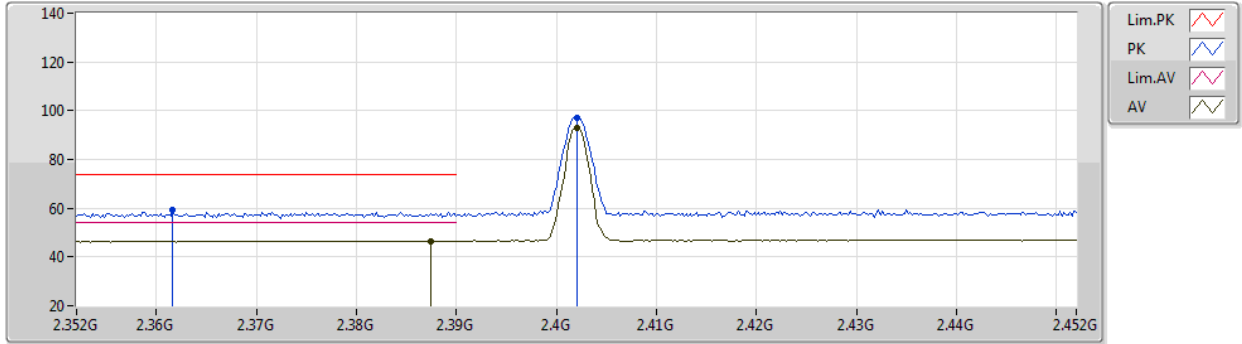
EUT X_1TX
Setting 10
02-B-K-4

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	2.3708G	58.38	74.00	-15.62	27.67	3	Vertical	34	2.57	-	28.30	2.41	-
AV	2.3816G	46.61	54.00	-7.39	15.90	3	Vertical	34	2.57	-	28.30	2.41	-
PK	2.402G	103.73	Inf	-Inf	73.03	3	Vertical	34	2.57	-	28.30	2.40	-
AV	2.402G	99.93	Inf	-Inf	69.23	3	Vertical	34	2.57	-	28.30	2.40	-

BT-EDR(3Mbps)

12/01/2021

2402MHz_TX



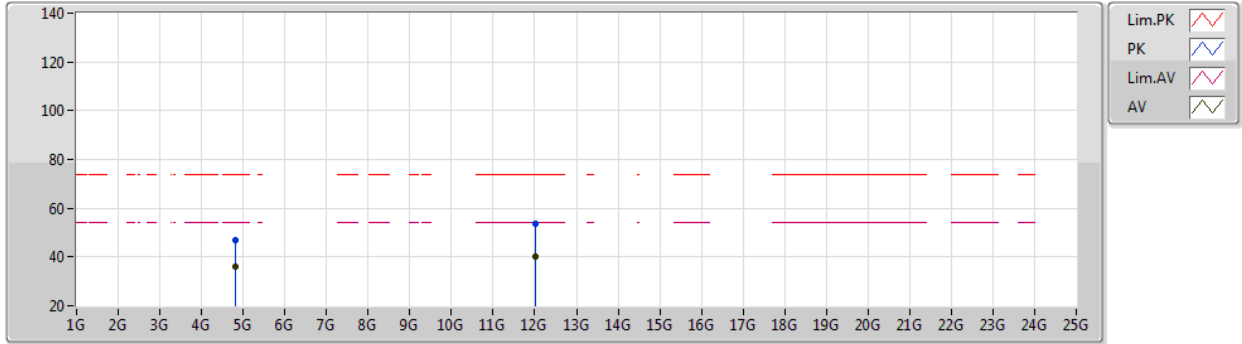
EUT X_1TX
Setting 10
02-B-K-4

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	2.3616G	59.29	74.00	-14.71	28.57	3	Horizontal	12	1.00	-	28.30	2.42	-
AV	2.3874G	46.59	54.00	-7.41	15.88	3	Horizontal	12	1.00	-	28.30	2.41	-
PK	2.402G	96.95	Inf	-Inf	66.25	3	Horizontal	12	1.00	-	28.30	2.40	-
AV	2.402G	93.11	Inf	-Inf	62.41	3	Horizontal	12	1.00	-	28.30	2.40	-

BT-EDR(3Mbps)

12/01/2021

2402MHz_TX



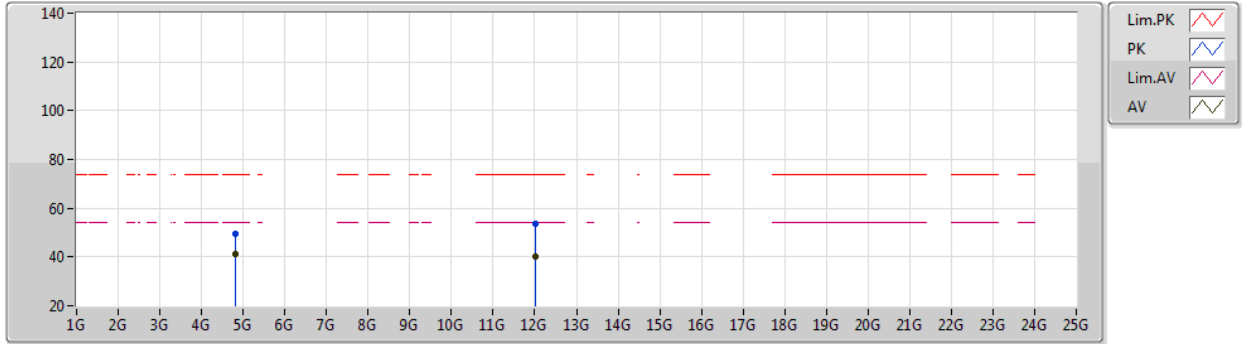
EUT Y_1TX
Setting 10
02-B-K-4

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	4.80386G	47.06	74.00	-26.94	41.31	3	Vertical	322	1.45	-	32.82	4.70	31.77
AV	4.80402G	36.22	54.00	-17.78	30.47	3	Vertical	322	1.45	-	32.82	4.70	31.77
PK	12.00524G	53.57	74.00	-20.43	39.43	3	Vertical	125	2.27	-	39.28	7.80	32.94
AV	12.01436G	40.14	54.00	-13.86	26.01	3	Vertical	125	2.27	-	39.26	7.81	32.94

BT-EDR(3Mbps)

12/01/2021

2402MHz_TX



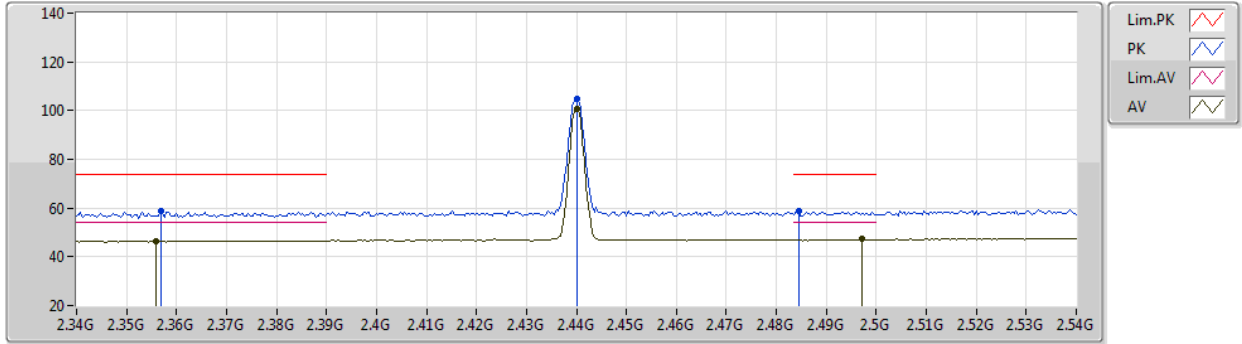
EUT Y_1TX
Setting 10
02-B-K-4

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	4.80402G	49.56	74.00	-24.44	43.81	3	Horizontal	218	1.76	-	32.82	4.70	31.77
AV	4.80404G	41.15	54.00	-12.85	35.40	3	Horizontal	218	1.76	-	32.82	4.70	31.77
PK	12.0144G	53.85	74.00	-20.15	39.72	3	Horizontal	3	1.42	-	39.26	7.81	32.94
AV	12.00606G	40.18	54.00	-13.82	26.04	3	Horizontal	3	1.42	-	39.28	7.80	32.94

BT-EDR(3Mbps)

13/01/2021

2440MHz_TX



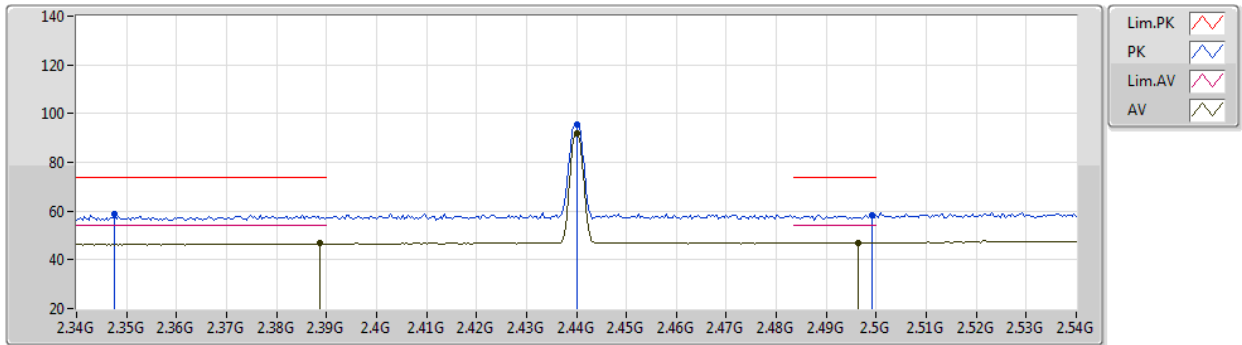
EUT X_1TX
Setting 10
02-B-K-4

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	2.3568G	58.73	74.00	-15.27	28.01	3	Vertical	35	1.09	-	28.30	2.42	-
AV	2.356G	46.61	54.00	-7.39	15.89	3	Vertical	35	1.09	-	28.30	2.42	-
PK	2.44G	100.61	Inf	-Inf	73.81	3	Vertical	35	1.09	-	28.38	2.42	-
AV	2.44G	100.76	Inf	-Inf	69.96	3	Vertical	35	1.09	-	28.38	2.42	-
PK	2.4844G	58.87	74.00	-15.13	27.89	3	Vertical	35	1.09	-	28.54	2.44	-
AV	2.4972G	47.20	54.00	-6.80	16.16	3	Vertical	35	1.09	-	28.59	2.45	-

BT-EDR(3Mbps)

13/01/2021

2440MHz_TX



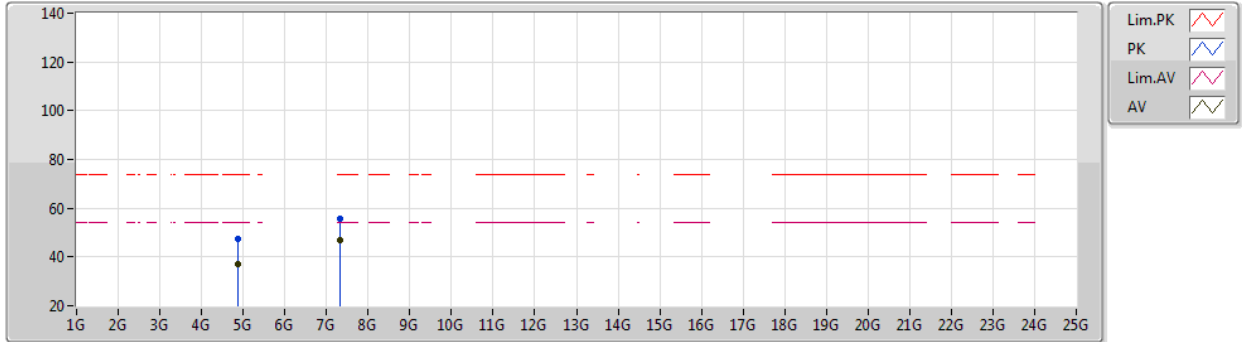
EUT X_1TX
Setting 10
02-B-K-4

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	2.3476G	58.68	74.00	-15.32	27.96	3	Horizontal	221	1.15	-	28.29	2.43	-
AV	2.3888G	46.72	54.00	-7.28	16.01	3	Horizontal	221	1.15	-	28.30	2.41	-
PK	2.44G	95.66	Inf	-Inf	64.86	3	Horizontal	221	1.15	-	28.38	2.42	-
AV	2.44G	91.76	Inf	-Inf	60.96	3	Horizontal	221	1.15	-	28.38	2.42	-
PK	2.4992G	58.38	74.00	-15.62	27.33	3	Horizontal	221	1.15	-	28.60	2.45	-
AV	2.4964G	47.03	54.00	-6.97	15.99	3	Horizontal	221	1.15	-	28.59	2.45	-

BT-EDR(3Mbps)

13/01/2021

2440MHz_TX



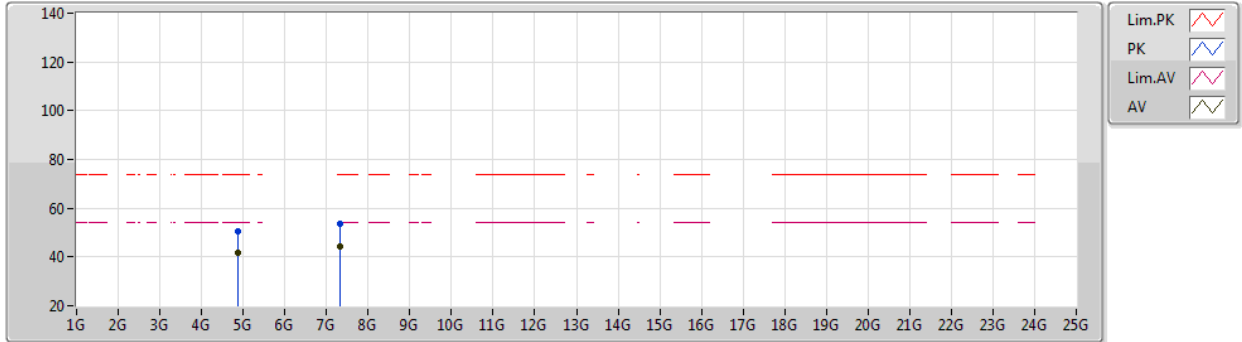
EUT Y_1TX
Setting 10
02-B-K-4

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	4.87954G	47.65	74.00	-26.35	41.63	3	Vertical	135	2.22	-	33.12	4.70	31.80
AV	4.88002G	37.29	54.00	-16.71	31.27	3	Vertical	135	2.22	-	33.12	4.70	31.80
PK	7.31946G	55.71	74.00	-18.29	45.94	3	Vertical	181	2.11	-	36.44	5.76	32.43
AV	7.32006G	46.75	54.00	-7.25	36.98	3	Vertical	181	2.11	-	36.44	5.76	32.43

BT-EDR(3Mbps)

13/01/2021

2440MHz_TX



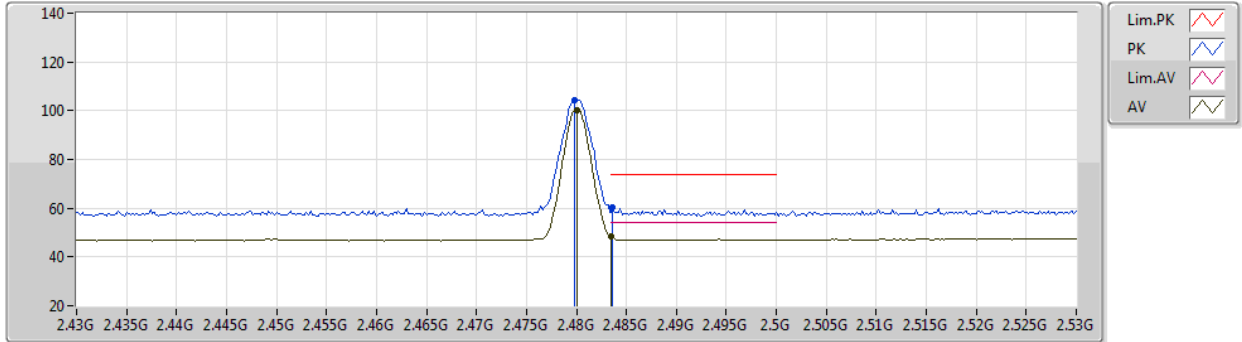
EUT Y_1TX
Setting 10
02-B-K-4

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	4.88012G	50.30	74.00	-23.70	44.28	3	Horizontal	219	2.06	-	33.12	4.70	31.80
AV	4.88002G	41.62	54.00	-12.38	35.60	3	Horizontal	219	2.06	-	33.12	4.70	31.80
PK	7.31992G	53.75	74.00	-20.25	43.98	3	Horizontal	167	2.02	-	36.44	5.76	32.43
AV	7.32012G	44.51	54.00	-9.49	34.74	3	Horizontal	167	2.02	-	36.44	5.76	32.43

BT-EDR(3Mbps)

12/01/2021

2480MHz_TX



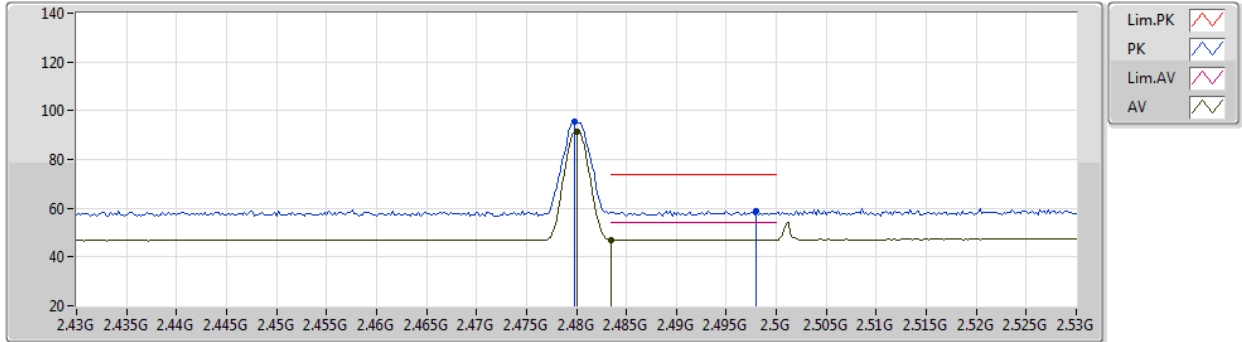
EUT X_1TX
Setting 10
02-B-K-4

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	2.4798G	104.19	Inf	-Inf	73.23	3	Vertical	37	2.46	-	28.52	2.44	-
AV	2.48G	100.30	Inf	-Inf	69.34	3	Vertical	37	2.46	-	28.52	2.44	-
PK	2.4836G	60.11	74.00	-13.89	29.14	3	Vertical	37	2.46	-	28.53	2.44	-
AV	2.4835G	48.22	54.00	-5.78	17.25	3	Vertical	37	2.46	-	28.53	2.44	-

BT-EDR(3Mbps)

12/01/2021

2480MHz_TX



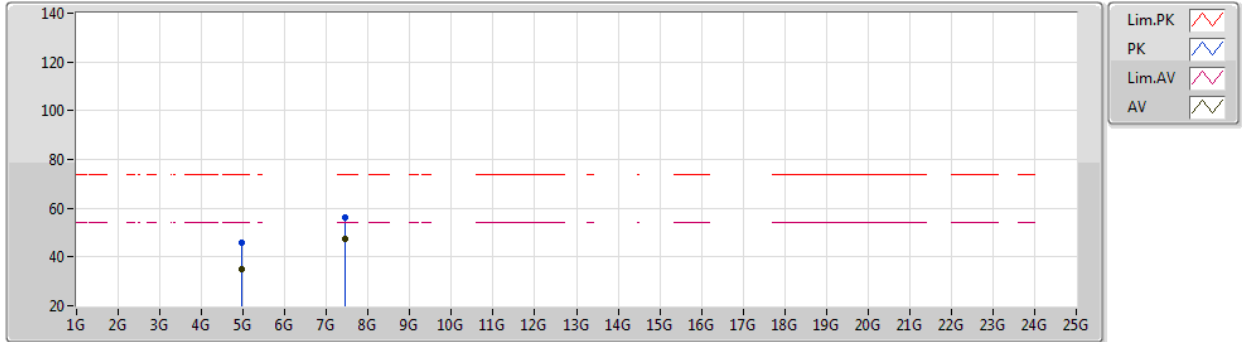
EUT X_1TX
Setting 10
02-B-K-4

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	2.4798G	95.33	Inf	-Inf	64.37	3	Horizontal	218	1.89	-	28.52	2.44	-
AV	2.48G	91.41	Inf	-Inf	60.45	3	Horizontal	218	1.89	-	28.52	2.44	-
PK	2.498G	59.00	74.00	-15.00	27.96	3	Horizontal	218	1.89	-	28.59	2.45	-
AV	2.4835G	47.05	54.00	-6.95	16.08	3	Horizontal	218	1.89	-	28.53	2.44	-

BT-EDR(3Mbps)

12/01/2021

2480MHz_TX



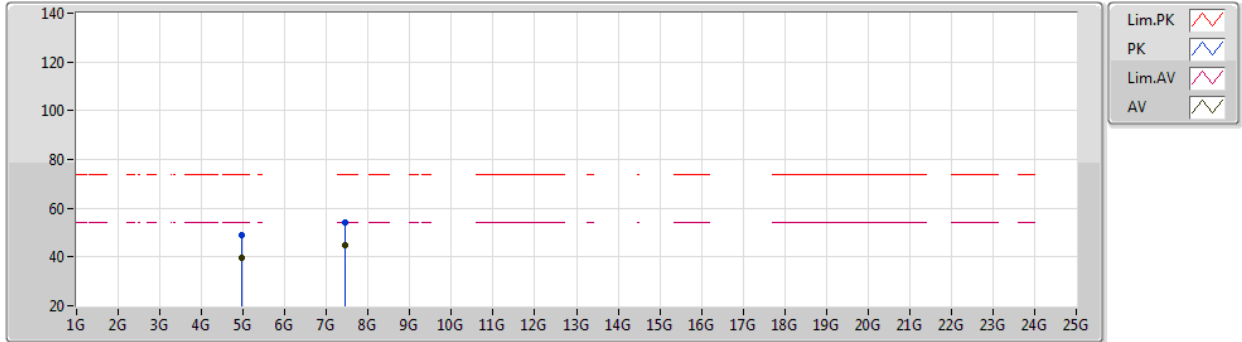
EUT Y_1TX
Setting 10
02-B-K-4

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	4.96008G	45.75	74.00	-28.25	39.66	3	Vertical	222	2.63	-	33.22	4.70	31.83
AV	4.96004G	34.86	54.00	-19.14	28.77	3	Vertical	222	2.63	-	33.22	4.70	31.83
PK	7.4395G	56.23	74.00	-17.77	46.39	3	Vertical	221	1.67	-	36.48	5.84	32.48
AV	7.44018G	47.65	54.00	-6.35	37.81	3	Vertical	221	1.67	-	36.48	5.84	32.48

BT-EDR(3Mbps)

12/01/2021

2480MHz_TX



EUT Y_1TX
Setting 10
02-B-K-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	4.96008G	48.71	74.00	-25.29	42.62	3	Horizontal	215	2.12	-	33.22	4.70	31.83
AV	4.95994G	39.55	54.00	-14.45	33.46	3	Horizontal	215	2.12	-	33.22	4.70	31.83
PK	7.43944G	54.04	74.00	-19.96	44.20	3	Horizontal	184	2.05	-	36.48	5.84	32.48
AV	7.4402G	44.57	54.00	-9.43	34.73	3	Horizontal	184	2.05	-	36.48	5.84	32.48