




# FCC RADIO TEST REPORT

**FCC ID** : K7S-03689  
**Equipment** : AX6600 Tri-band Mesh Router  
**Brand Name** : LINKSYS  
**Model Name** : MR7500, MR75WH  
**Applicant** : Belkin International, Inc.  
12045 East Waterfront Dr. Playa Vista CA United States Zip code: 90094  
**Standard** : 47 CFR FCC Part 15.247

The product was received on Dec. 07, 2020, and testing was started from Dec. 07, 2020 and completed on Feb. 05, 2021. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications 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. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.



Approved by: Sam Chen

**SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory**  
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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### History of this test report

Report No.	Version	Description	Issued Date
FR0D0129AD	01	Initial issue of report	Feb. 26, 2021



## 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: Sandy Chuang**



# 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 Holder	Model Name	Antenna Type	Connector	Gain (dBi)
1	1	Signal Plus Technology Co., Ltd	6239F00003	Dipole	I-PEX	Note 1
2	2	Signal Plus Technology Co., Ltd	6239F00004	Dipole	I-PEX	
3	1	Signal Plus Technology Co., Ltd	6239F00001	Dipole	I-PEX	
4	2	Signal Plus Technology Co., Ltd	6239F00001	Dipole	I-PEX	
5	3	Signal Plus Technology Co., Ltd	6239F00002	Dipole	I-PEX	
6	4	Signal Plus Technology Co., Ltd	6239F00002	Dipole	I-PEX	
7	1	Signal Plus Technology Co., Ltd	6239F00005	PIFA	N/A	

Note 1:

Ant.	Port	Gain (dBi)							Bluetooth
		WLAN 2.4GHz	WLAN 5GHz		WLAN 6GHz				
			UNII 1	UNII 3	UNII 5	UNII 6	UNII 7	UNII 8	
1	1	1.61	2.12	2.08	-	-	-	-	-
2	2	1.65	2.12	2.08	-	-	-	-	-
3	1	-	-	-	2.75	2.83	2.83	2.98	-
4	2	-	-	-	1.72	2.15	2.15	2.37	-
5	3	-	-	-	2.02	2.21	2.21	2.55	-
6	4	-	-	-	2.42	2.54	2.54	2.73	-
7	1	-	-	-	-	-	-	-	4

Note 2: The above information was declared by manufacturer.

<For WLAN 2.4GHz >

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

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

Port 1 and Port 2 could transmit/receive simultaneously.

<For WLAN 5GHz Band UNII 1/UNII 3>

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

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

Port 1 and Port 2 could transmit/receive simultaneously.

<For WLAN 6GHz Band UNII 5~UNII 8>

**For IEEE 802.11ax mode (4TX/4RX)**

Port 1, Port 2, Port 3 and Port 4 can be used as transmitting/receiving antenna.

Port 1, Port 2, Port 3 and Port 4 could transmit/receive simultaneously.

<For Bluetooth> (1TX/1RX)

Only Port 1 can be used as transmitting/receiving.



### 1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
BT-BR(1Mbps)	0.826	0.83	2.899m	1k
BT-EDR(2Mbps)	0.831	0.8	2.919m	1k
BT-EDR(3Mbps)	0.828	0.82	2.908m	1k

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

### 1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter
Test Software Version	BlueTest3 V2.6.2.632

### 1.1.5 Table for Multiple Listing

Model No.	Description
MR7500, MR75WH	All the model names are identical, the difference model names served as marketing strategy.

Note 1: Model Name: MR7500 was selected as representative model for the test and its data was recorded in this report.

Note 2: The above information was declared by manufacturer.



### 1.2 Applicable Standards

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

- ♦ 47 CFR FCC Part 15

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		
<input type="checkbox"/>	HWA YA	ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL : 886-3-327-3456 FAX : 886-3-327-0973
<input checked="" type="checkbox"/>	JHUBEI	ADD : No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302, Taiwan (R.O.C.) TEL : 886-3-656-9065 FAX : 886-3-656-9085

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH01-CB	Jeff Wu	24.1-25.9 / 55-56	Dec. 25, 2020~ Jan. 26, 2021
Radiated (Above 1GHz)	03CH03-CB	Bruce Yang	21.9-23.1 / 56-58	Dec. 07, 2020~ Feb. 05, 2021
Radiated (Below 1GHz: Mode 1~Mode 5)	03CH05-CB	Bruce Yang	21.1-22.3 / 56-58	Dec. 07, 2020~ Feb. 05, 2021
Radiated (Below 1GHz: Mode 6)	03CH03-CB	Bruce Yang	22.3-23.3 / 56-58	Dec. 07, 2020~ Feb. 05, 2021
AC Conduction	CO01-CB	Peter Wu	22~23 / 62~64	Jan. 28, 2021

Test site Designation No. TW0006 with FCC.  
Test site registered number IC 4086D with Industry Canada.





### 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	63
2440MHz	63
2480MHz	63
BT-EDR(2Mbps)	-
2402MHz	63
2440MHz	63
2480MHz	63
BT-EDR(3Mbps)	-
2402MHz	63
2440MHz	63
2480MHz	63



## 2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
<b>Tests Item</b>	AC power-line conducted emissions
<b>Condition</b>	AC power-line conducted measurement for line and neutral
<b>Operating Mode</b>	Normal Link
1	EUT with Adapter 1
2	EUT with Adapter 2
3	EUT with Adapter 3

For operating mode 2 is the worst case and it was record in this test report.

The Worst Case Mode for Following Conformance Tests	
<b>Tests Item</b>	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
<b>Test Condition</b>	Conducted measurement at transmit chains



The Worst Case Mode for Following Conformance Tests	
<b>Tests Item</b>	Emissions in Restricted Frequency Bands
<b>Test Condition</b>	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.
<b>Operating Mode &lt; 1GHz</b>	CTX
The EUT was performed at Y axis and Z axis position for Radiated measurement<Above 1GHz>, and the worst case was found at Z axis position for 2.4GHz、5GHz UNII 1/UNII 3、Bluetooth and Y axis position for 6GHz UNII 5~UNII 8.	
1	EUT + Bluetooth with Adapter 1 in Z axis
2	EUT + Bluetooth with Adapter 2 in Z axis
3	EUT + Bluetooth with Adapter 3 in Z axis
Mode 1 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 + WLAN 2.4GHz with Adapter 1 in Z axis
5	EUT + WLAN 5GHz UNII 1/UNII 3 with Adapter 1 in Z axis
6	EUT + WLAN 6GHz UNII 5~UNII 8 with Adapter 1 in Y axis
For operating mode 1 is the worst case and it was record in this test report.	
<b>Operating Mode &gt; 1GHz</b>	CTX
The EUT was performed at Y axis and Z axis position. The worst case was found at Z axis, thus the measurement will follow this same test configuration.	

The Worst Case Mode for Following Conformance Tests	
<b>Tests Item</b>	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
<b>Operating Mode</b>	
1	WLAN 2.4GHz + WLAN 5GHz UNII 1/UNII 3 + WLAN 6GHz UNII 5~UNII 8 + Bluetooth
Refer to Sporton Test Report No.: FA0D0129 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

Accessories			
Equipment Name	Brand Name	Model Name	Rating
Adapter 1	KTEC	KSA-36W-120300HU	Input: 100-240V~50/60Hz 1.0A Output: 12.0V, 3.0A
Adapter 2	APD	WA-36N12FU	Input: 100-240V~, 50-60Hz 0.9A Max. Output: 12V, 3A
Adapter 3 (Interchangeable)	KTEC	KSA-36W-120300D5	Input: 100-240V~50/60Hz 1.0A Output: 12.0V, 3.0A, 36.0W
Other			
Plug*1 (Use for Adapter 3)			
RJ-45 cable*1: Non-Shielded, 0.9m			

### 2.5 Support Equipment

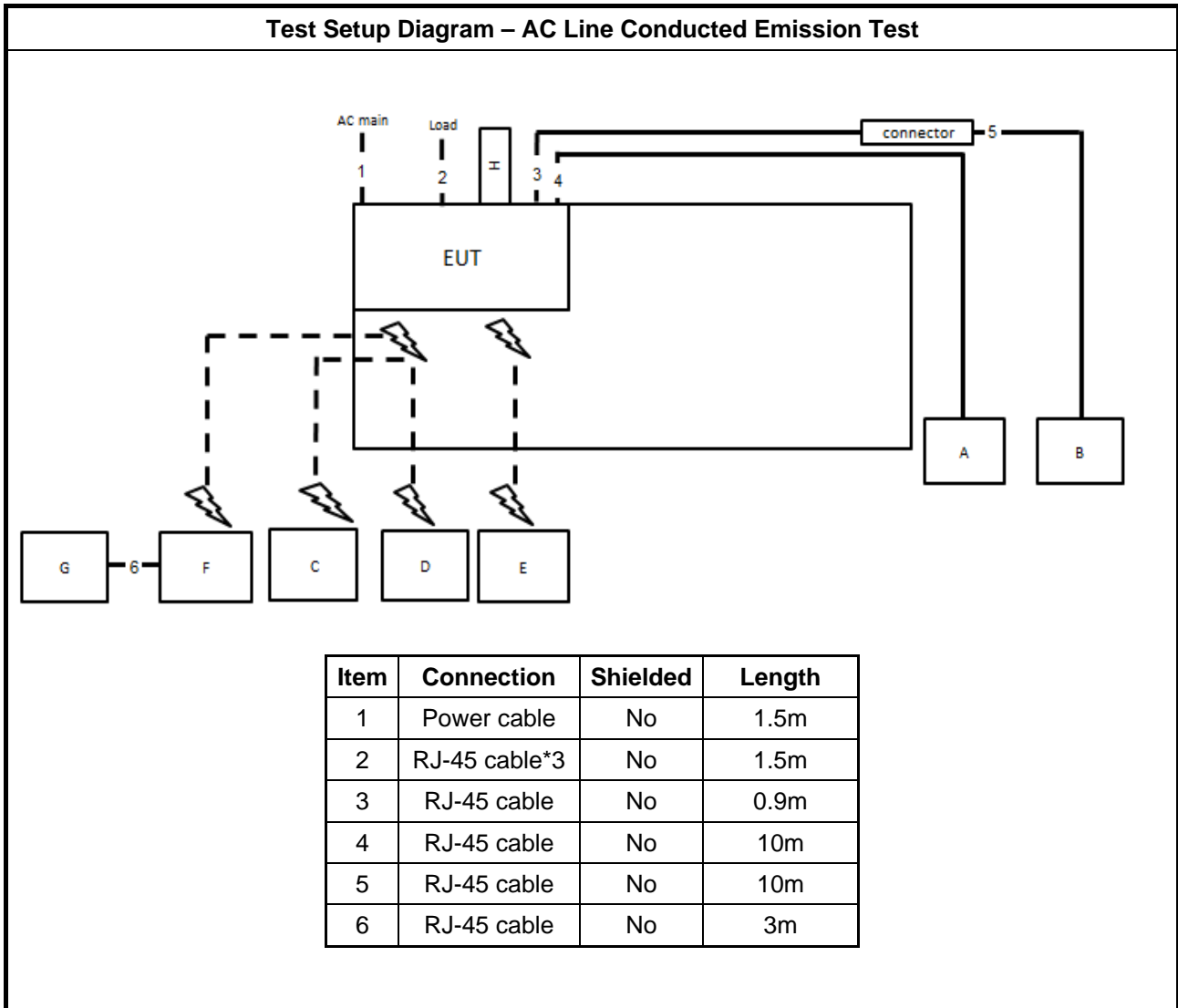
For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	LAN1 NB	DELL	E6430	N/A
B	WAN PC	DELL	T3400	N/A
C	2.4G NB	DELL	E6430	N/A
D	5G NB	Apple	A1278	N/A
E	Smart phone	Samsung	Galaxy J2	N/A
F	WiFi 6E Client	LINKSYS	Divo	N/A
G	WiFi 6E Client NB	DELL	E6430	N/A
H	Flash disk3.0	Transcend	JetFlash-700	N/A

For Radiated and RF Conducted:

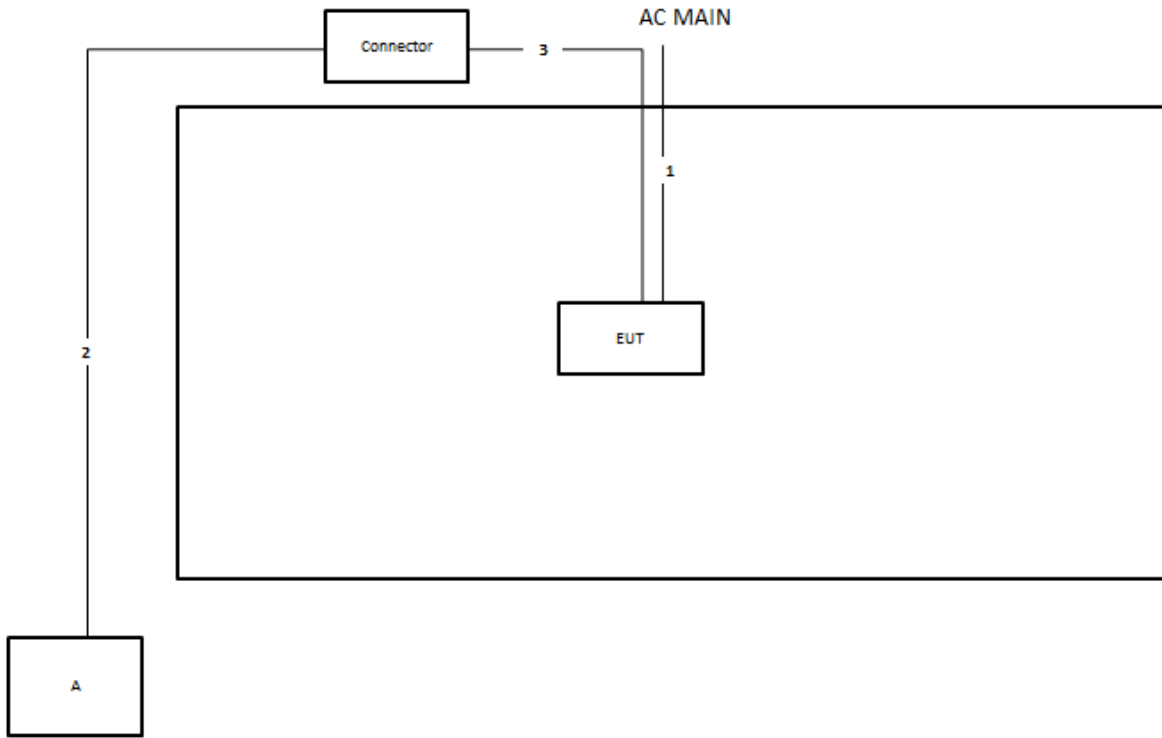
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A

## 2.6 Test Setup Diagram





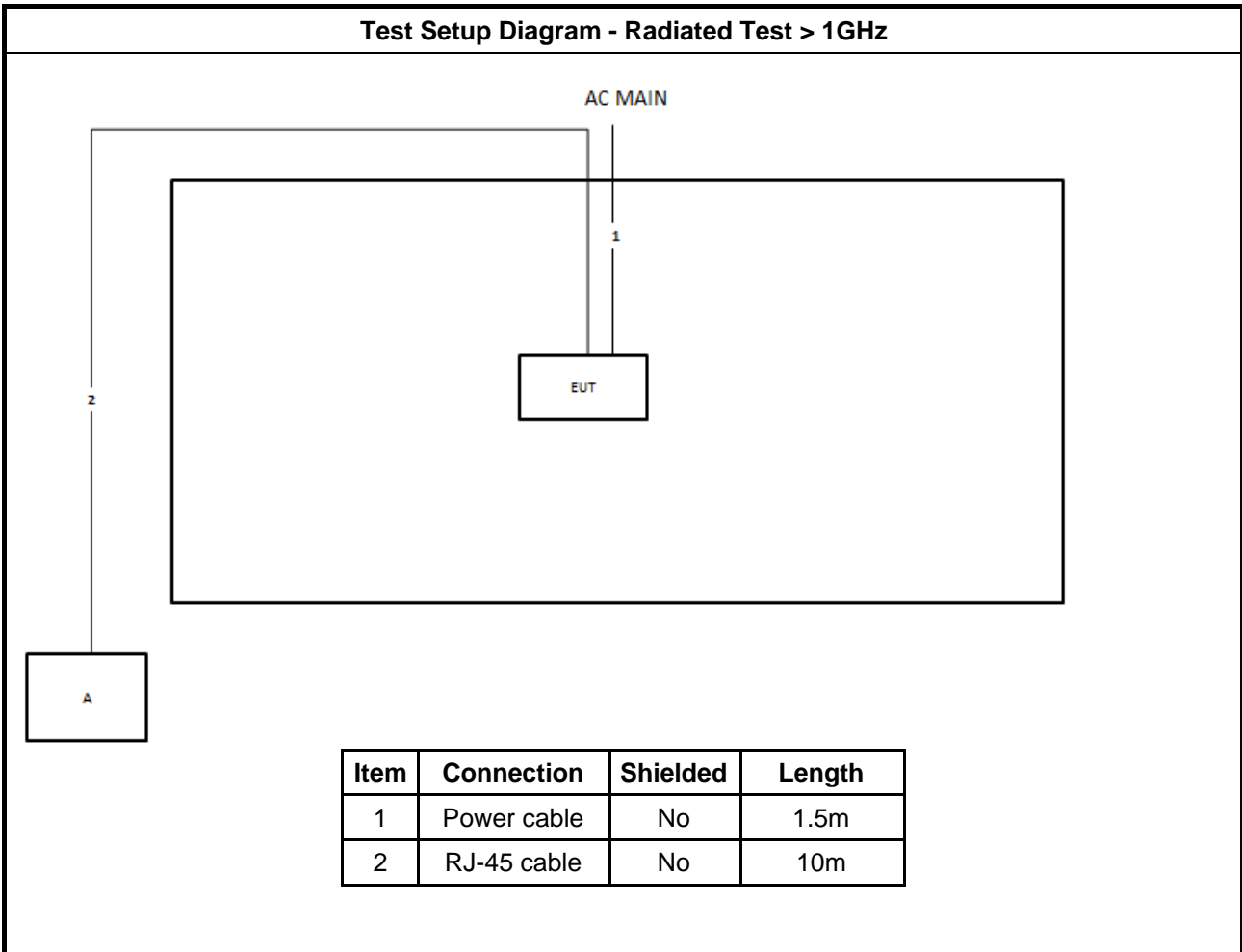
Test Setup Diagram - Radiated Test < 1GHz



Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	RJ-45 cable	No	10m
3	RJ-45 cable	No	0.9m



Test Setup Diagram - Radiated Test > 1GHz



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





### 3 Transmitter Test Result

#### 3.1 AC Power-line Conducted Emissions

##### 3.1.1 AC Power-line Conducted Emissions Limit

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

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

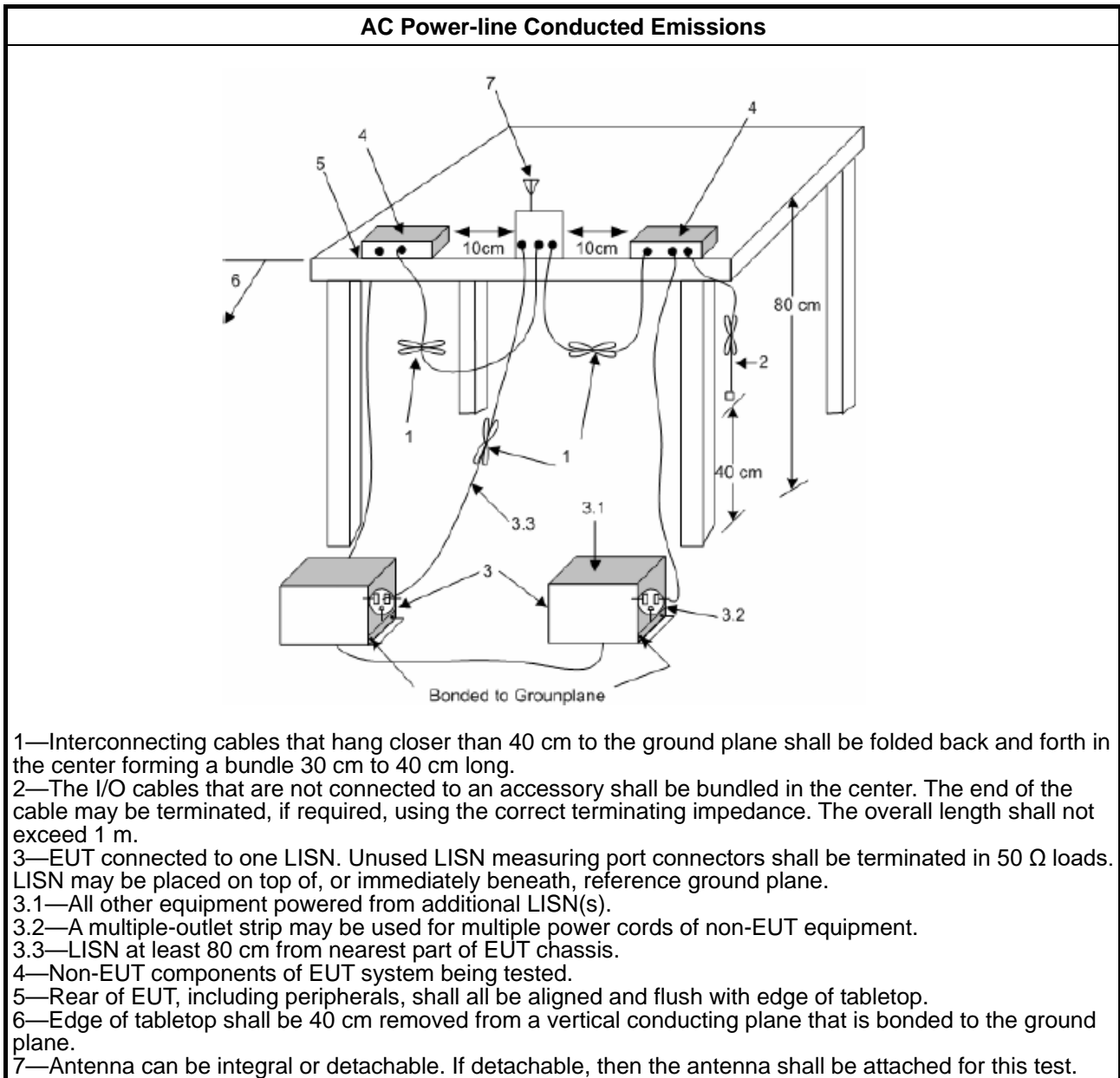
##### 3.1.2 Measuring Instruments

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

##### 3.1.3 Test Procedures

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

### 3.1.4 Test Setup



#### 1.1.1. Measurement Results Calculation

The measured Level is calculated using:

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

### 3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

### 3.2 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	

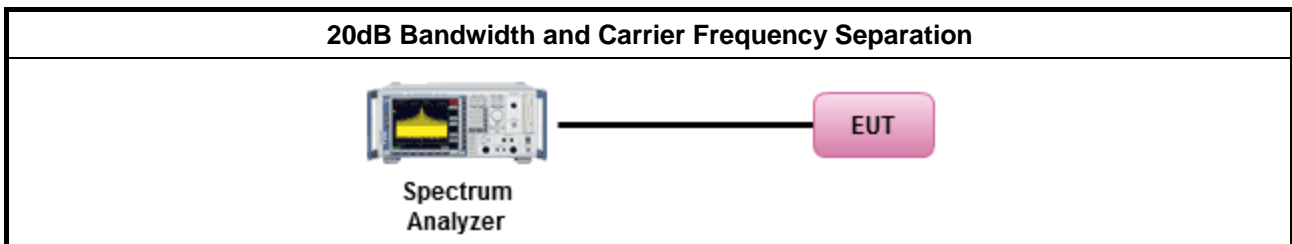
#### 3.2.2 Measuring Instruments

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	

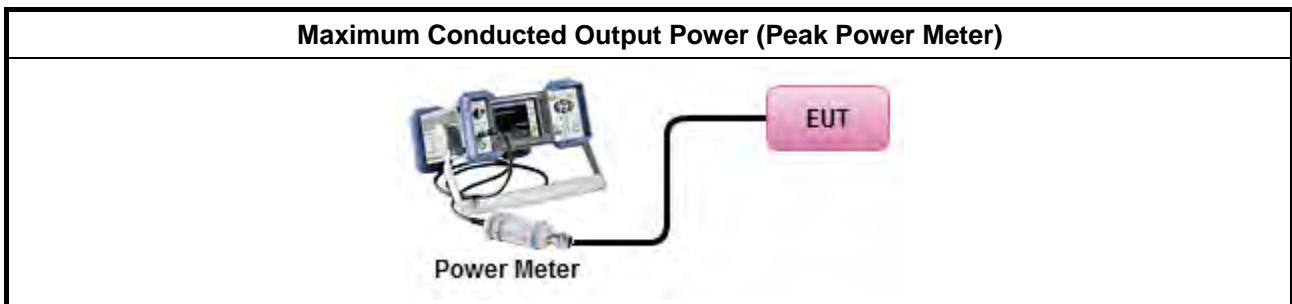
#### 3.3.2 Measuring Instruments

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

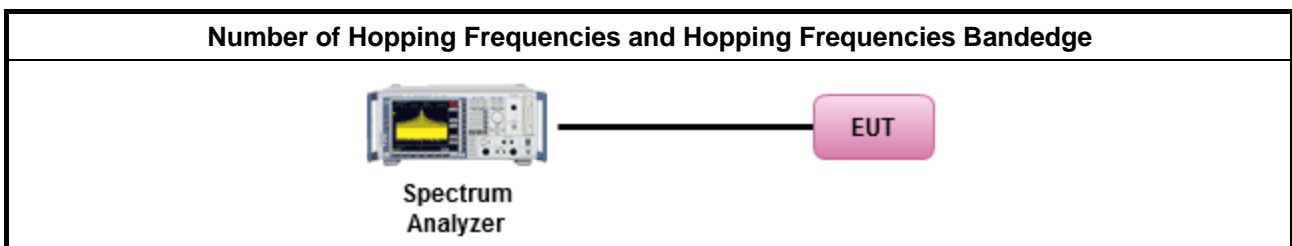
#### 3.4.3 Measuring Instruments

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	

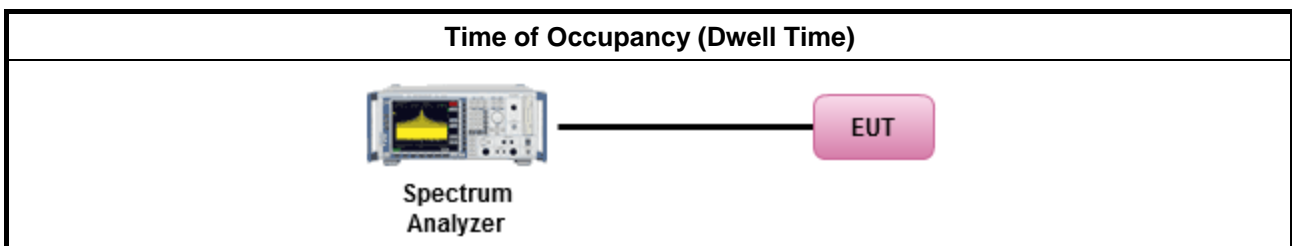
#### 3.5.2 Measuring Instruments

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.	

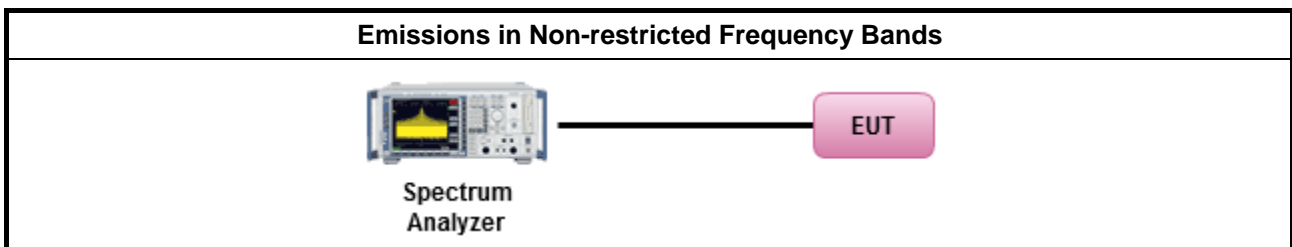
#### 3.6.2 Measuring Instruments

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

#### 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

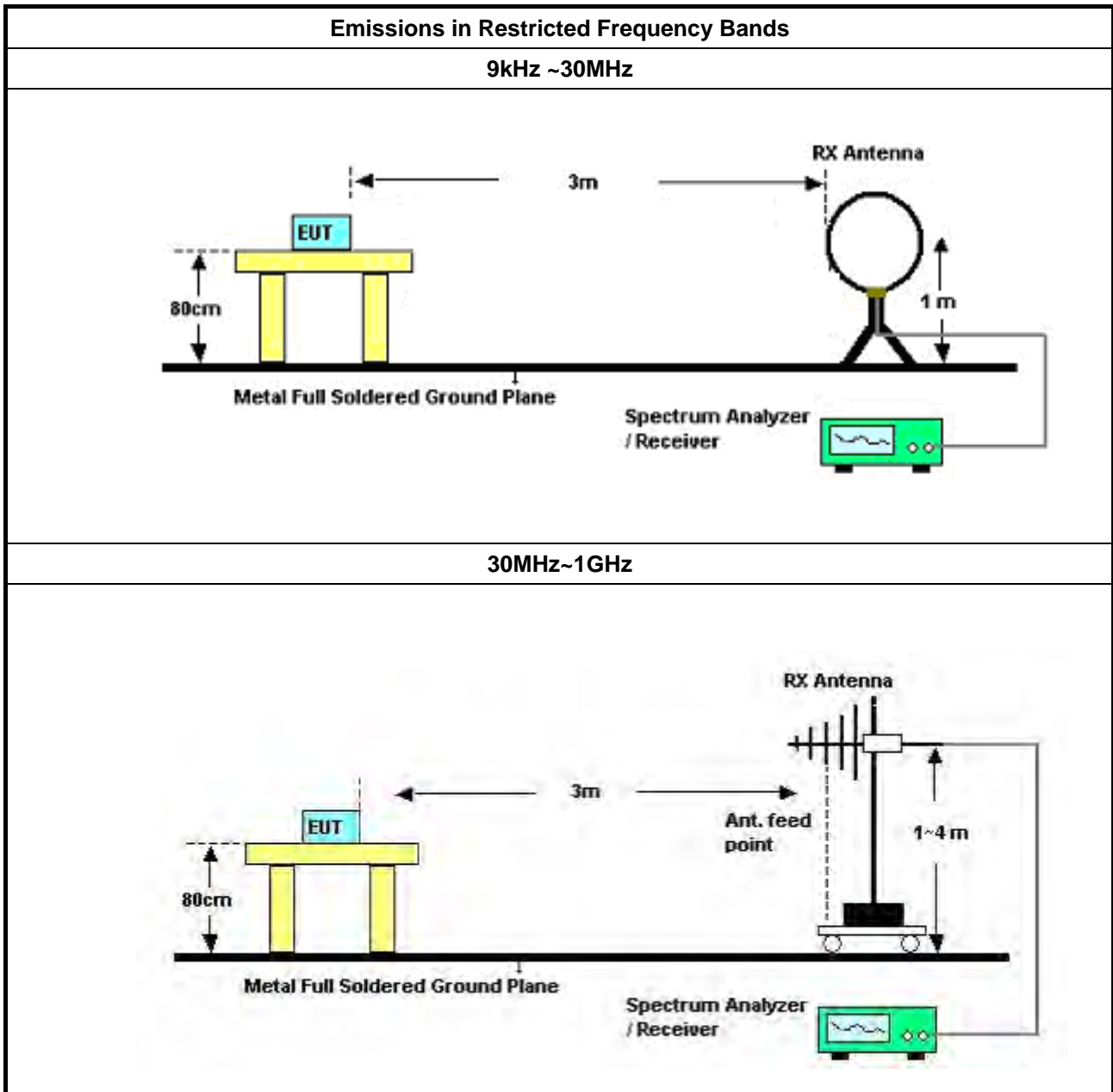
Refer a test equipment and calibration data table in this test report.

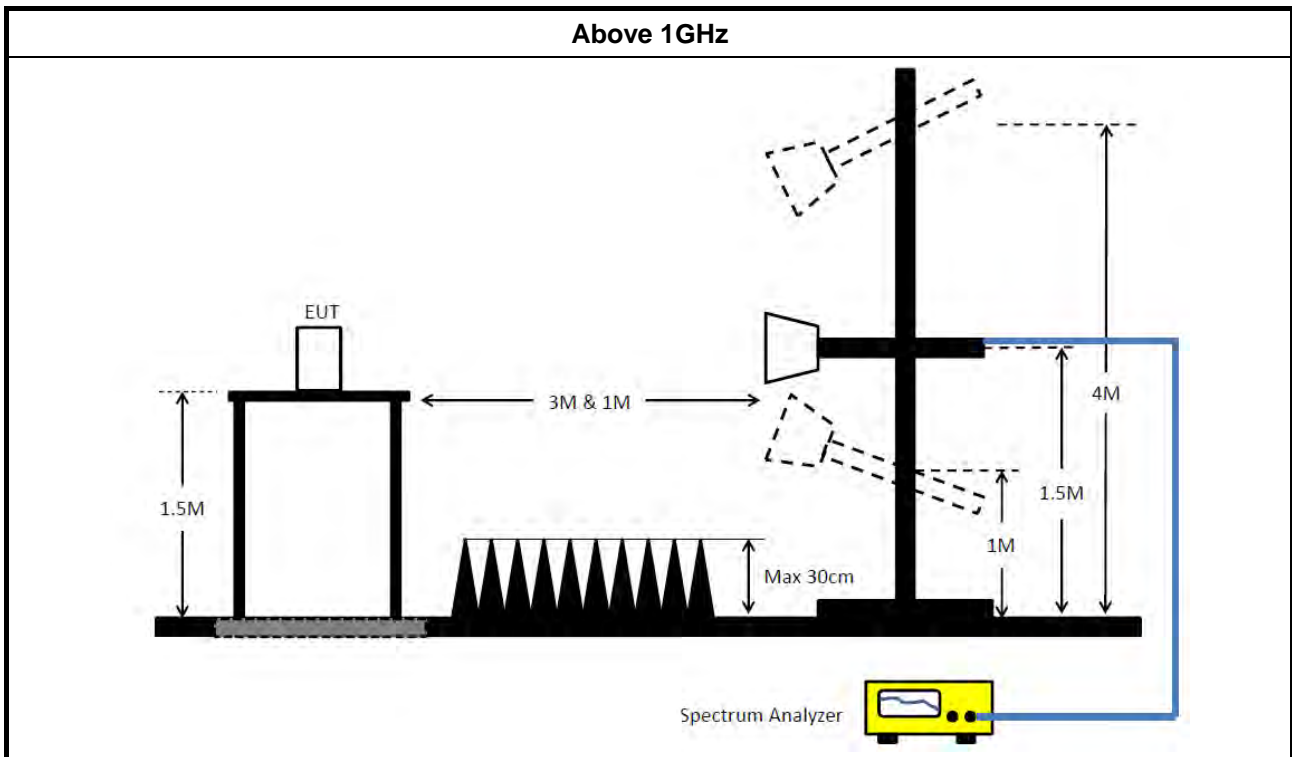
#### 3.7.3 Test Procedures

Test Method				
<ul style="list-style-type: none"> <li>The average emission levels shall be measured in [hopping duty factor].</li> </ul>				
<ul style="list-style-type: none"> <li>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.</li> </ul>				
<ul style="list-style-type: none"> <li>For the transmitter unwanted emissions shall be measured using following options below:               <table border="1" data-bbox="188 1776 1428 1915"> <tbody> <tr> <td> <ul style="list-style-type: none"> <li>Refer as ANSI C63.10, clause 4.1.4.2.1 QP value.</li> </ul> </td> </tr> <tr> <td> <ul style="list-style-type: none"> <li>Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak.</li> </ul> </td> </tr> <tr> <td> <ul style="list-style-type: none"> <li>Refer as ANSI C63.10, clause 4.1.4.2.4 average value of hopping pulsed emissions.</li> </ul> </td> </tr> </tbody> </table> </li> </ul>		<ul style="list-style-type: none"> <li>Refer as ANSI C63.10, clause 4.1.4.2.1 QP value.</li> </ul>	<ul style="list-style-type: none"> <li>Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak.</li> </ul>	<ul style="list-style-type: none"> <li>Refer as ANSI C63.10, clause 4.1.4.2.4 average value of hopping pulsed emissions.</li> </ul>
<ul style="list-style-type: none"> <li>Refer as ANSI C63.10, clause 4.1.4.2.1 QP value.</li> </ul>				
<ul style="list-style-type: none"> <li>Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak.</li> </ul>				
<ul style="list-style-type: none"> <li>Refer as ANSI C63.10, clause 4.1.4.2.4 average value of hopping pulsed emissions.</li> </ul>				



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. 31, 2020	Jan. 30, 2021	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)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Apr. 13, 2020	Apr. 12, 2021	Radiation (03CH03-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH03-CB	30 MHz ~ 1 GHz	Jan. 29, 2020	Jan. 28, 2021	Radiation (03CH03-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH03-CB	30 MHz ~ 1 GHz	Jan. 27, 2021	Jan. 26, 2022	Radiation (03CH03-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH03-CB	1GHz ~18GHz 3m	May 28, 2020	May 27, 2021	Radiation (03CH03-CB)
Bilog Antenna with 6 dB attenuator	Schaffner & EMCI	CBL6112B & N-6-06	2928 & AT-N0608	20MHz ~ 2GHz	Feb. 28, 2020	Feb. 27, 2021	Radiation (03CH03-CB)
Horn Antenna	COM-POWER	AH-118	071028	1GHz ~ 18GHz	Jun. 09, 2020	Jun. 08, 2021	Radiation (03CH03-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 21, 2020	Jul. 20, 2021	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8447D	2944A10259	9kHz ~ 1.3GHz	Jan. 15, 2020	Jan. 14, 2021	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8447D	2944A10259	9kHz ~ 1.3GHz	Jan. 11, 2021	Jan. 10, 2022	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8449B	3008A02097	1GHz ~ 26.5GHz	Jul. 03, 2020	Jun. 02, 2021	Radiation (03CH03-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 08, 2020	Jul. 07, 2021	Radiation (03CH03-CB)
Spectrum Analyzer	R&S	FSP40	100019	9kHz ~ 40GHz	Jun. 09, 2020	Jun. 08, 2021	Radiation (03CH03-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	May 13, 2020	May 12, 2021	Radiation (03CH03-CB)
RF Cable-low	Woken	RG402	Low Cable-02+29	30MHz ~ 1GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-20+29	1GHz ~ 18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-29	1GHz ~ 18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH03-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	May 05, 2020	May 04, 2021	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz –26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz –26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz –26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz –26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-30	1 GHz –26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH01-CB)
Power Sensor	Agilent	E9327A	US40442088	50MHz~18GHz	Feb. 07, 2020	Feb. 06, 2021	Conducted (TH01-CB)
Power Meter	Agilent	E4416A	GB41291199	50MHz~18GHz	Feb. 07, 2020	Feb. 06, 2021	Conducted (TH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH01-CB)

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

NCR means Non-Calibration required.

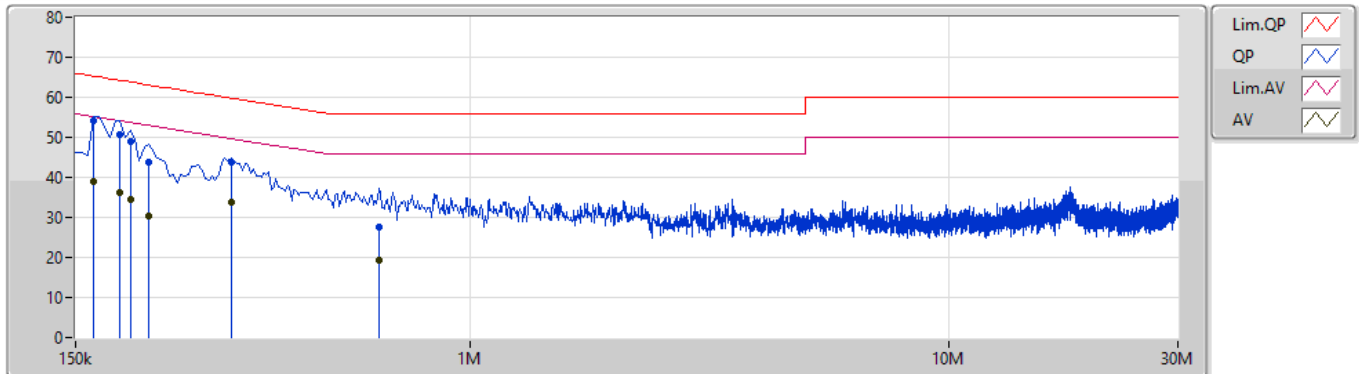


**Summary**

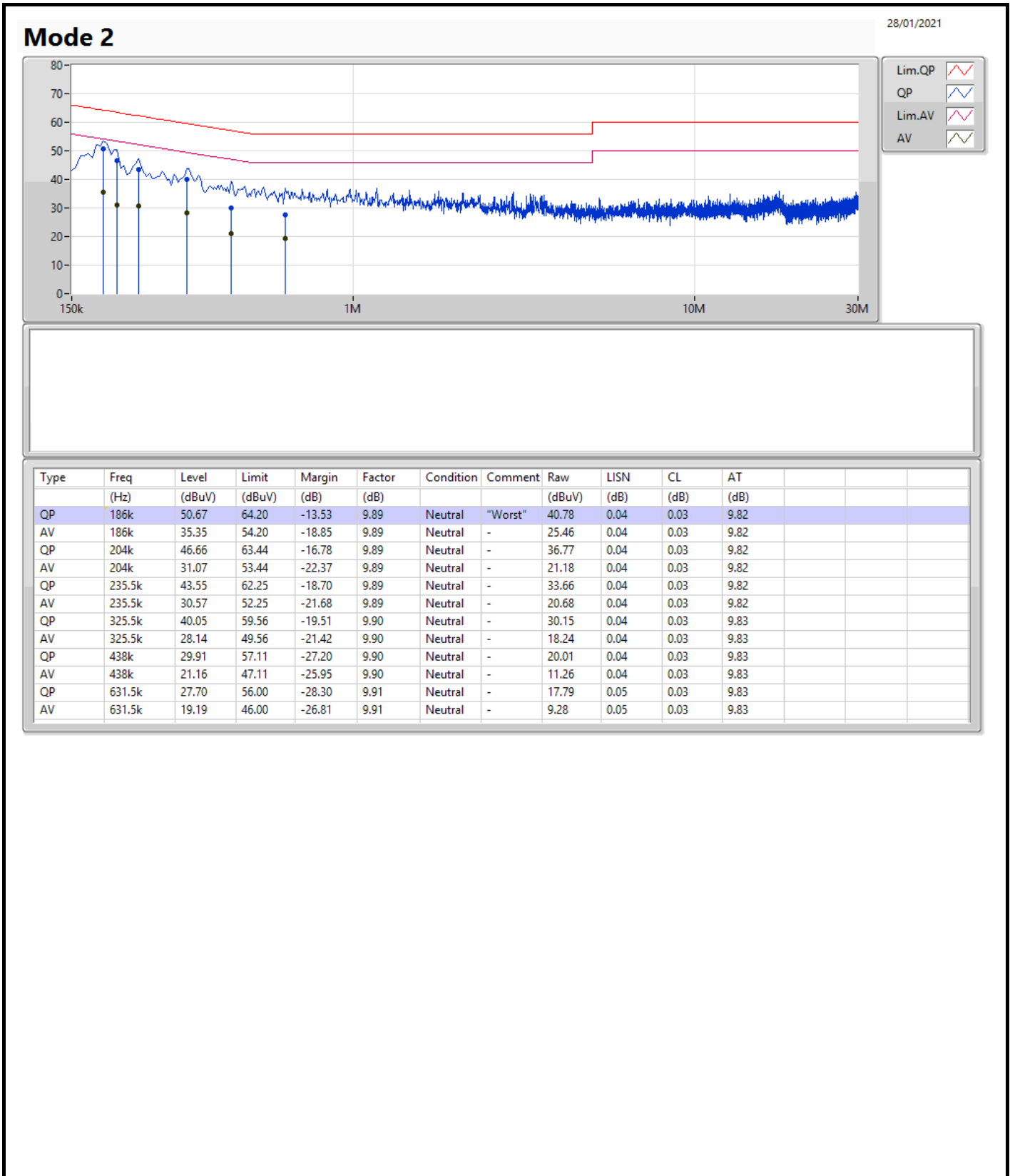
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 2	Pass	QP	163.5k	54.28	65.27	-10.99	Line

Mode 2

28/01/2021



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	163.5k	54.28	65.27	-10.99	9.89	Line	"Worst"	44.39	0.05	0.03	9.81
AV	163.5k	38.88	55.27	-16.39	9.89	Line	-	28.99	0.05	0.03	9.81
QP	186k	50.65	64.20	-13.55	9.89	Line	-	40.76	0.04	0.03	9.82
AV	186k	36.36	54.20	-17.84	9.89	Line	-	26.47	0.04	0.03	9.82
QP	195k	49.06	63.82	-14.76	9.89	Line	-	39.17	0.04	0.03	9.82
AV	195k	34.42	53.82	-19.40	9.89	Line	-	24.53	0.04	0.03	9.82
QP	213k	43.88	63.09	-19.21	9.89	Line	-	33.99	0.04	0.03	9.82
AV	213k	30.36	53.09	-22.73	9.89	Line	-	20.47	0.04	0.03	9.82
QP	316.5k	43.67	59.80	-16.13	9.90	Line	-	33.77	0.04	0.03	9.83
AV	316.5k	33.92	49.80	-15.88	9.90	Line	-	24.02	0.04	0.03	9.83
QP	645k	27.56	56.00	-28.44	9.92	Line	-	17.64	0.05	0.04	9.83
AV	645k	19.40	46.00	-26.60	9.92	Line	-	9.48	0.05	0.04	9.83





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)	921.25k	870.815k	871KF1D	920k	868.316k
BT-EDR(2Mbps)	1.309M	1.186M	1M19G1D	1.305M	1.178M
BT-EDR(3Mbps)	1.264M	1.202M	1M20G1D	1.259M	1.192M

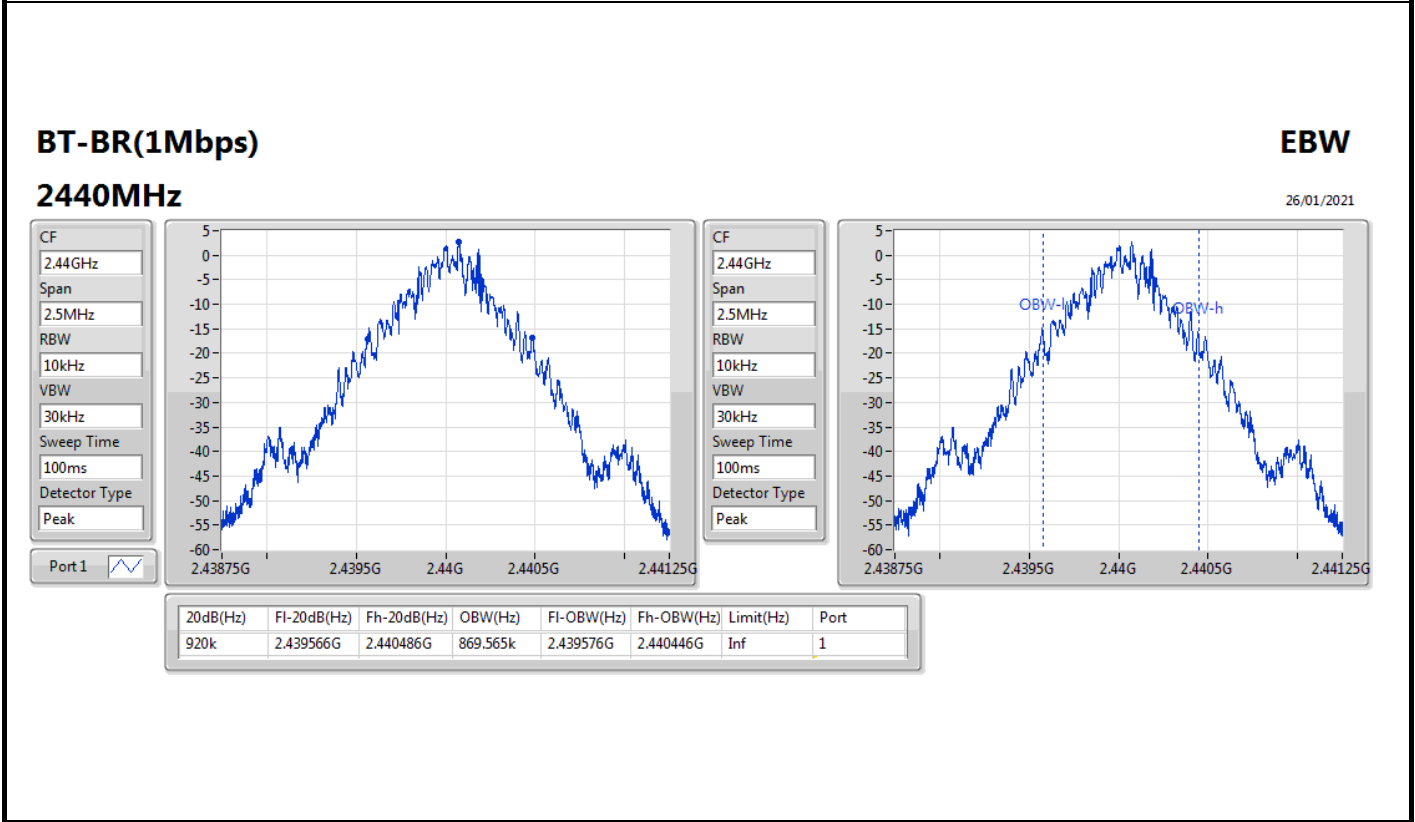
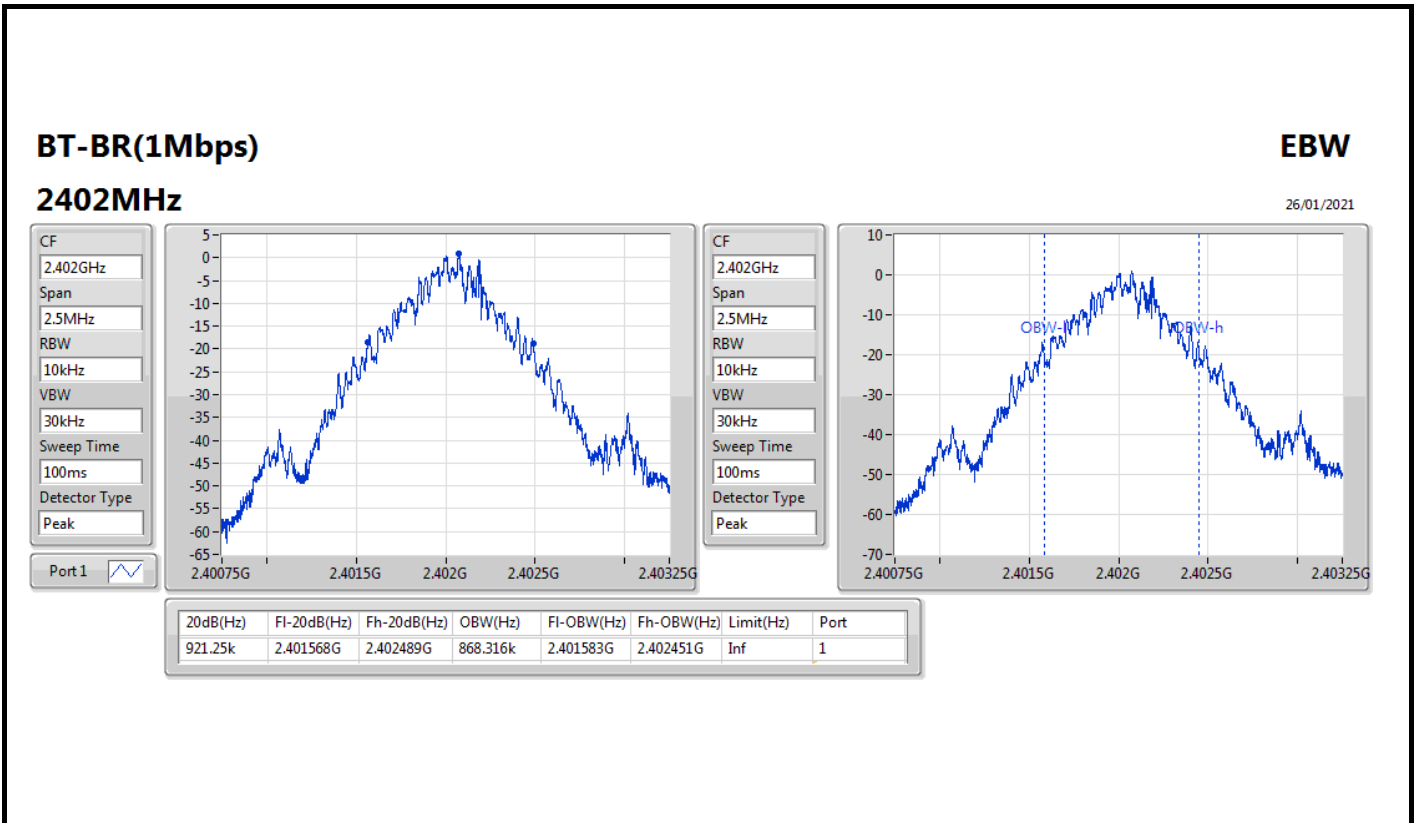
Max-N dB = Maximum 20dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;  
 Min-N dB = Minimum 20dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth;

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	Inf	921.25k	868.316k
2440MHz	Pass	Inf	920k	869.565k
2480MHz	Pass	Inf	920k	870.815k
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.305M	1.179M
2440MHz	Pass	Inf	1.308M	1.178M
2480MHz	Pass	Inf	1.309M	1.186M
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.259M	1.192M
2440MHz	Pass	Inf	1.264M	1.196M
2480MHz	Pass	Inf	1.263M	1.202M

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





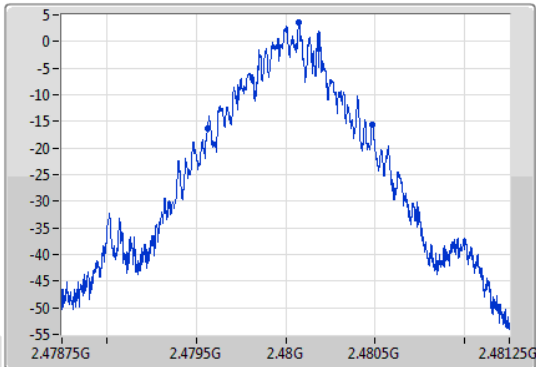
**BT-BR(1Mbps)**

**EBW**

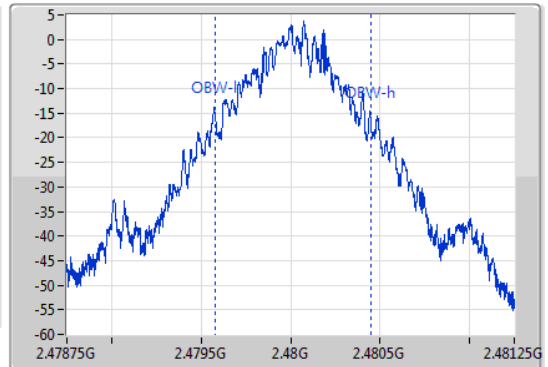
**2480MHz**

26/01/2021

CF  
2.48GHz  
Span  
2.5MHz  
RBW  
10kHz  
VBW  
30kHz  
Sweep Time  
100ms  
Detector Type  
Peak  
Port 1



CF  
2.48GHz  
Span  
2.5MHz  
RBW  
10kHz  
VBW  
30kHz  
Sweep Time  
100ms  
Detector Type  
Peak



20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
920k	2.479566G	2.480486G	870.815k	2.479576G	2.480447G	Inf	1

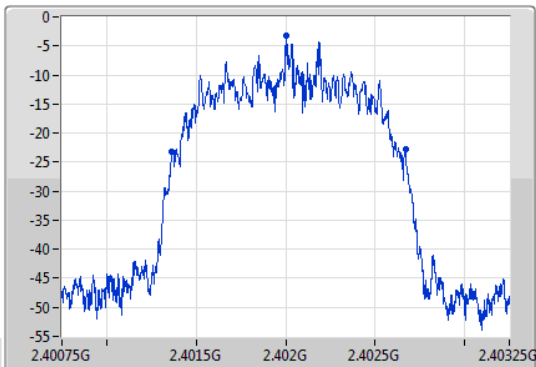
**BT-EDR(2Mbps)**

**EBW**

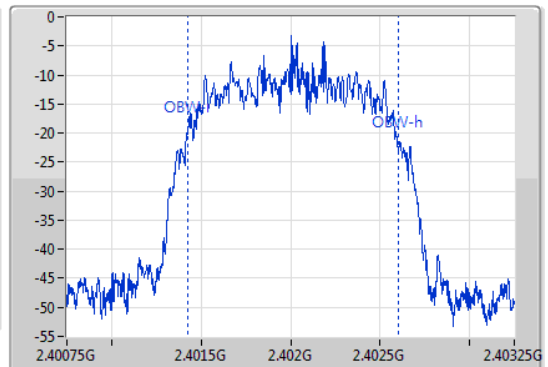
**2402MHz**

26/01/2021

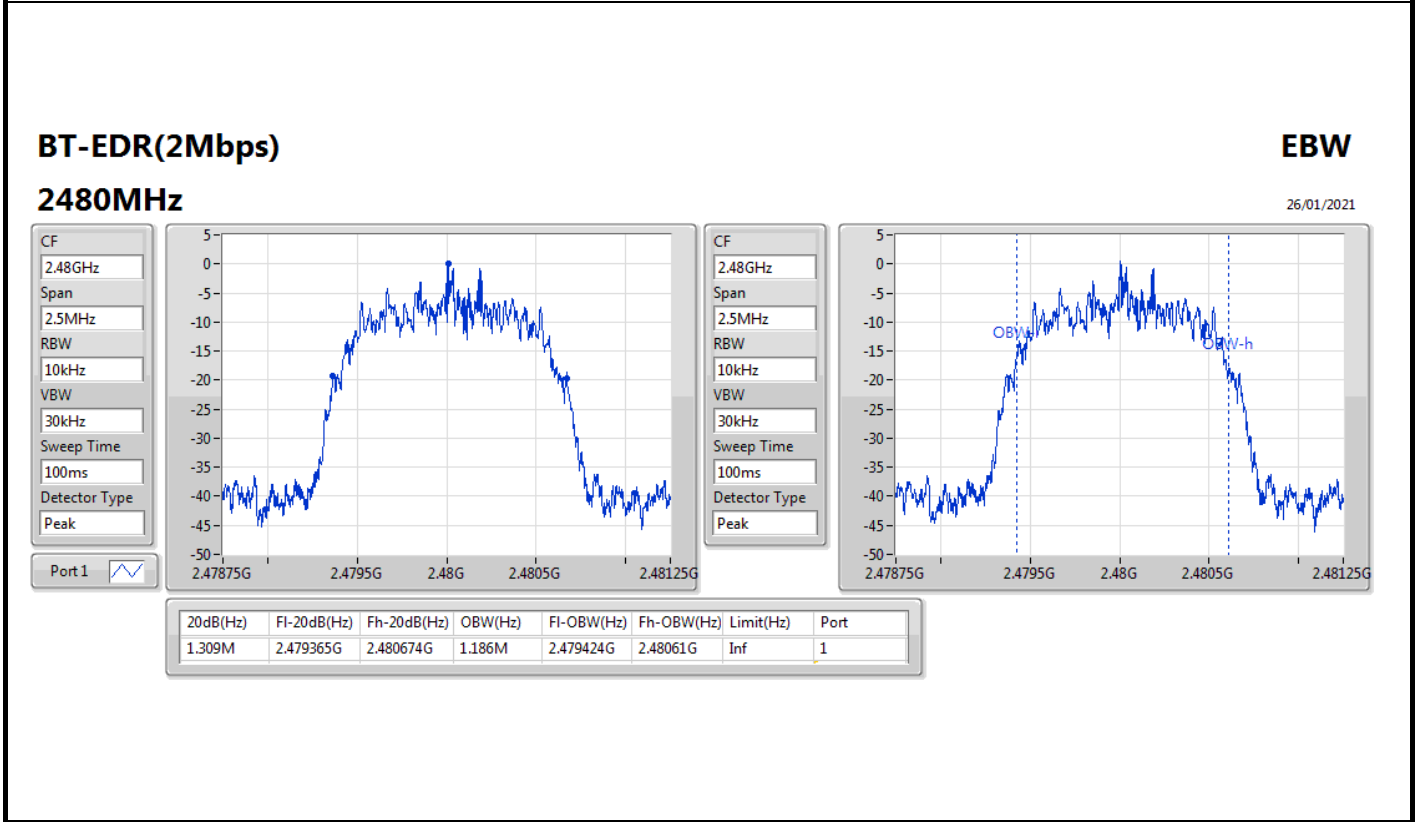
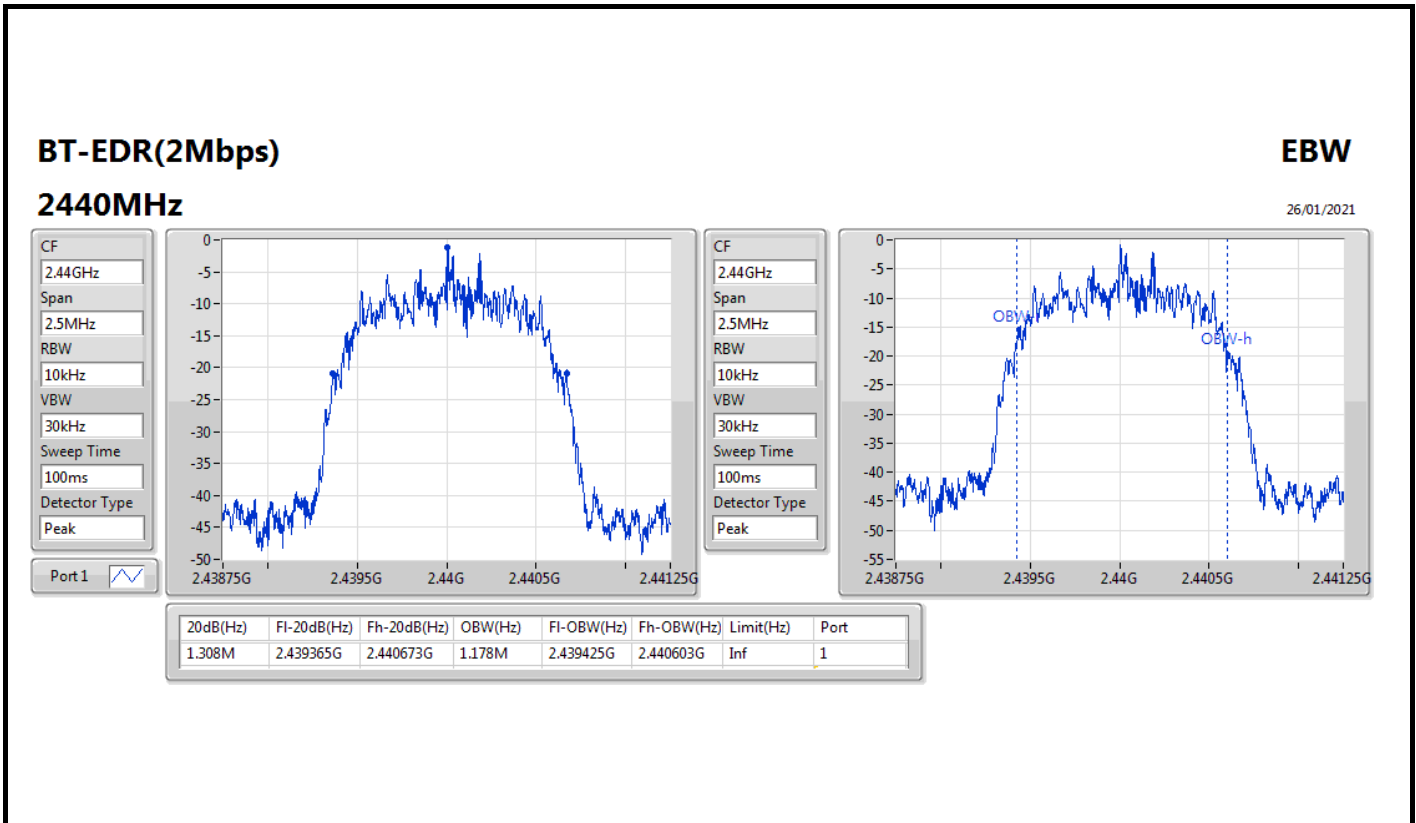
CF  
2.402GHz  
Span  
2.5MHz  
RBW  
10kHz  
VBW  
30kHz  
Sweep Time  
100ms  
Detector Type  
Peak  
Port 1

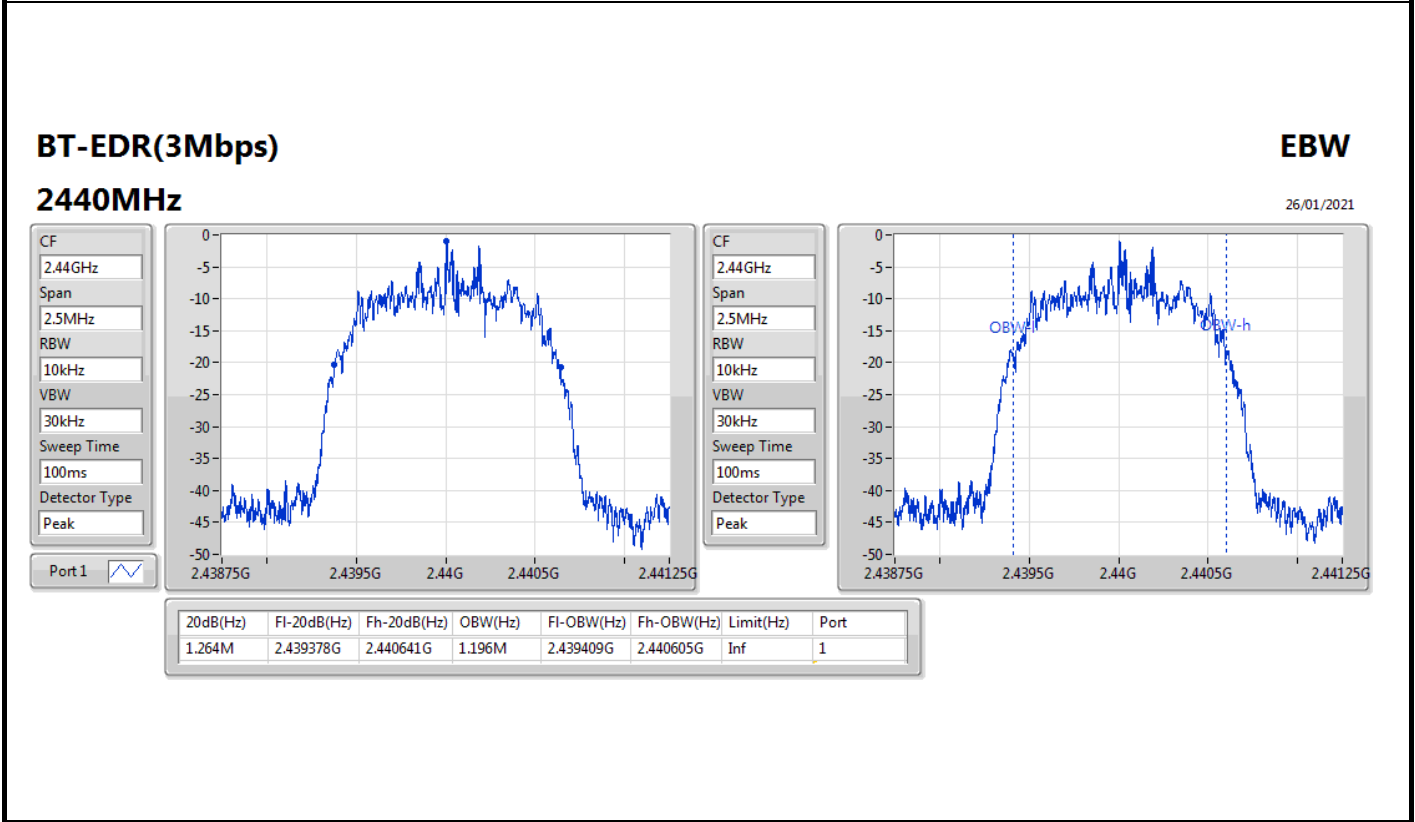
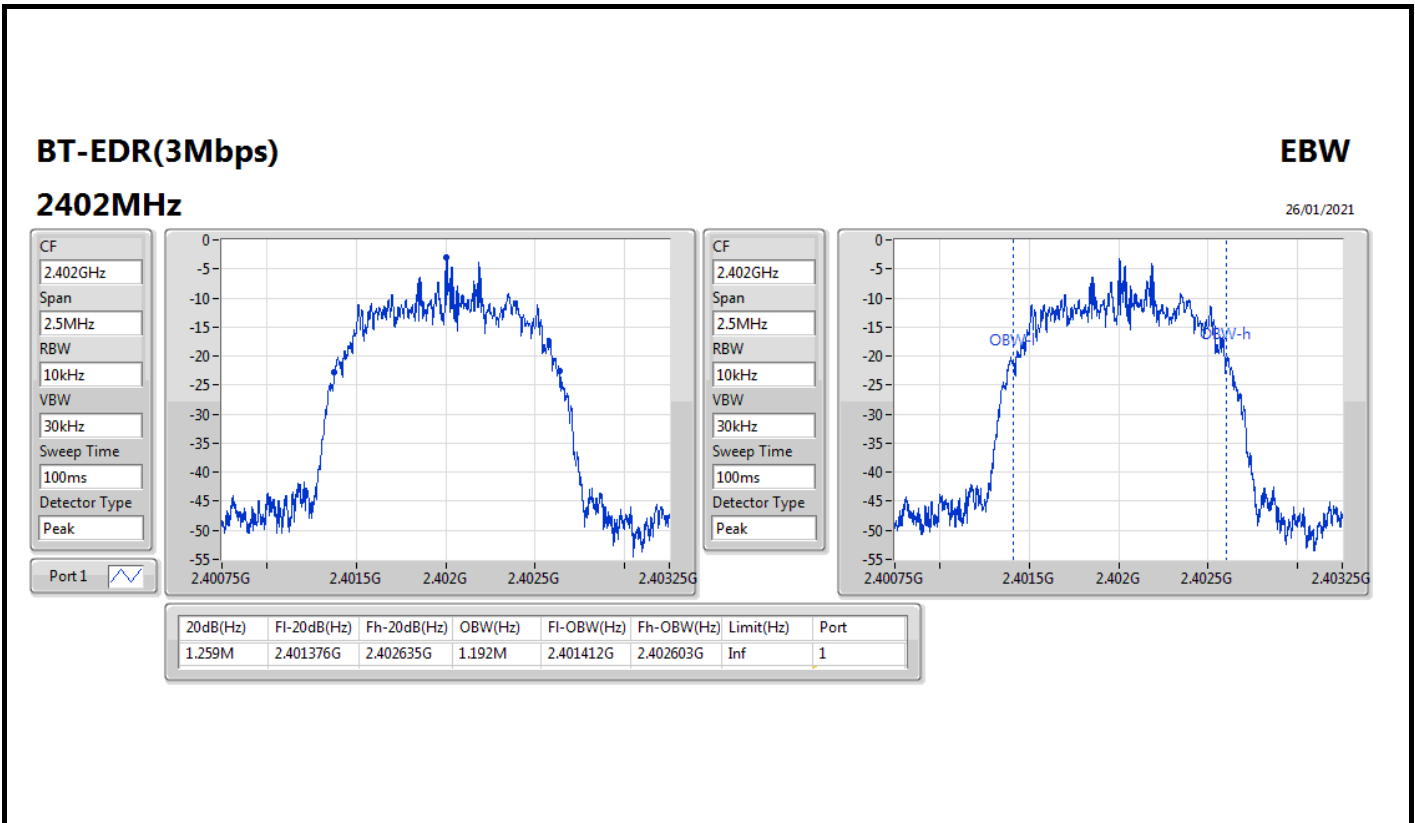


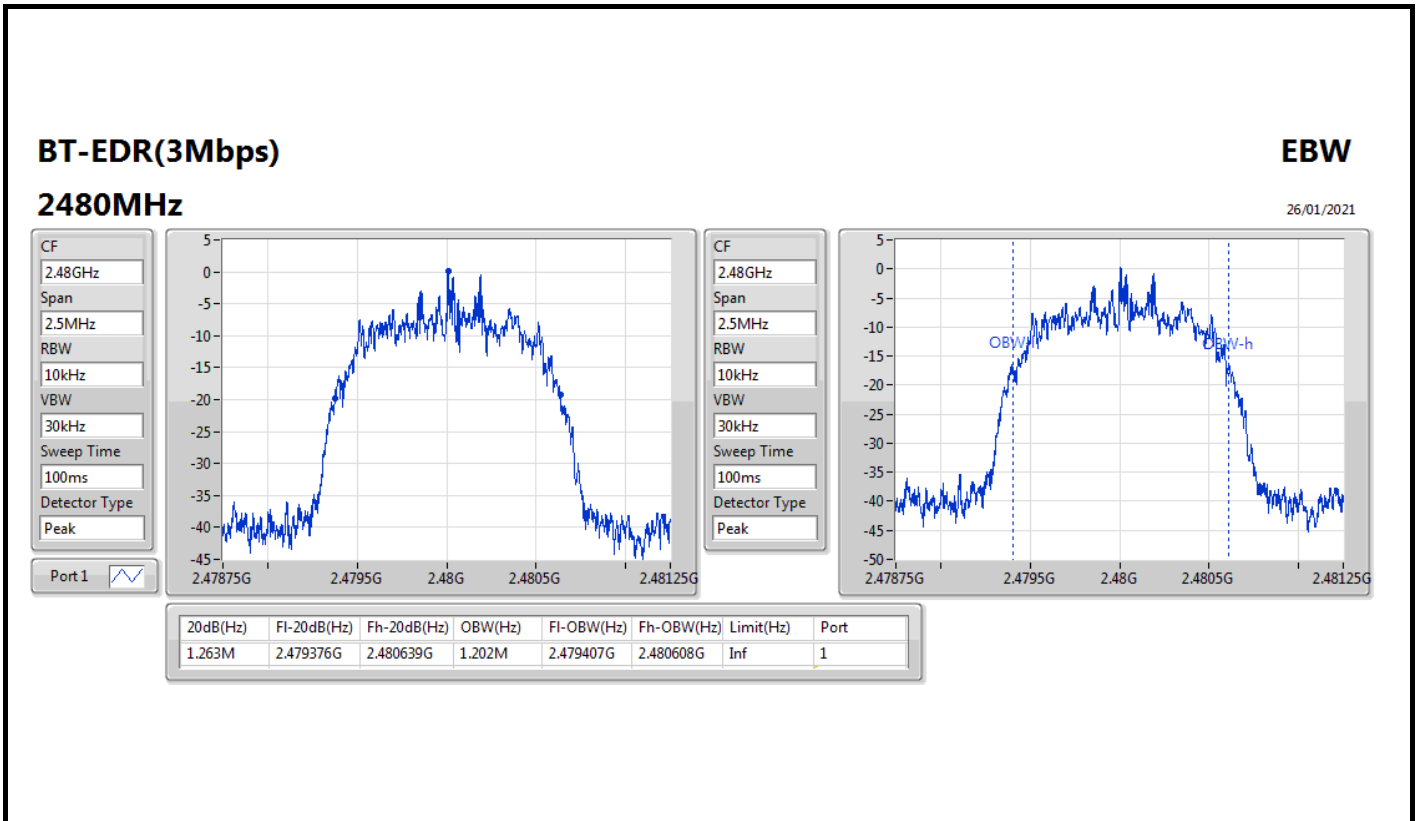
CF  
2.402GHz  
Span  
2.5MHz  
RBW  
10kHz  
VBW  
30kHz  
Sweep Time  
100ms  
Detector Type  
Peak



20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.305M	2.401366G	2.402671G	1.179M	2.401425G	2.402605G	Inf	1









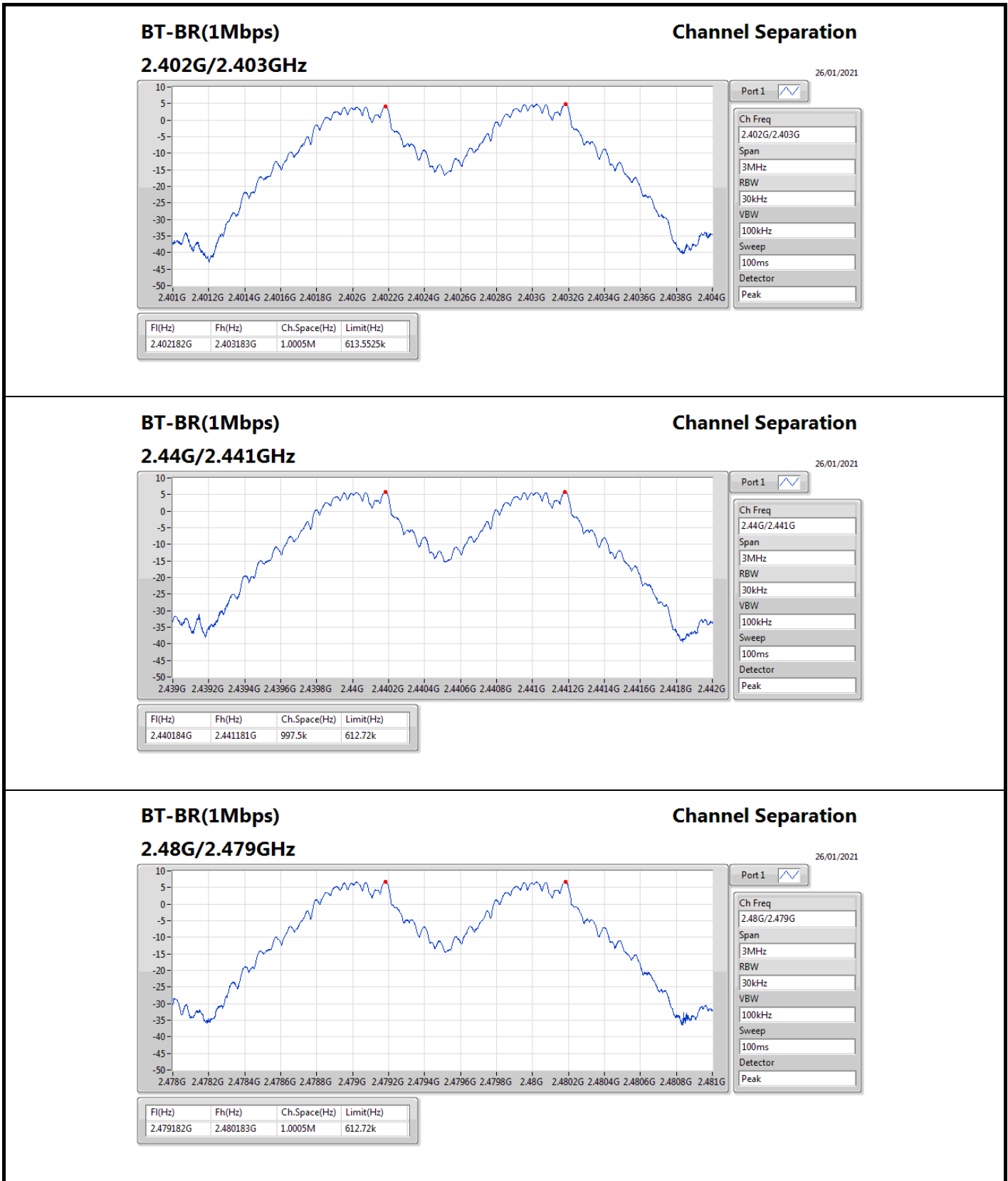
**Summary**

Mode	Max-Space (Hz)	Min-Space (Hz)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	1.0005M	997.5k
BT-EDR(2Mbps)	1.125M	999k
BT-EDR(3Mbps)	1.0005M	999k

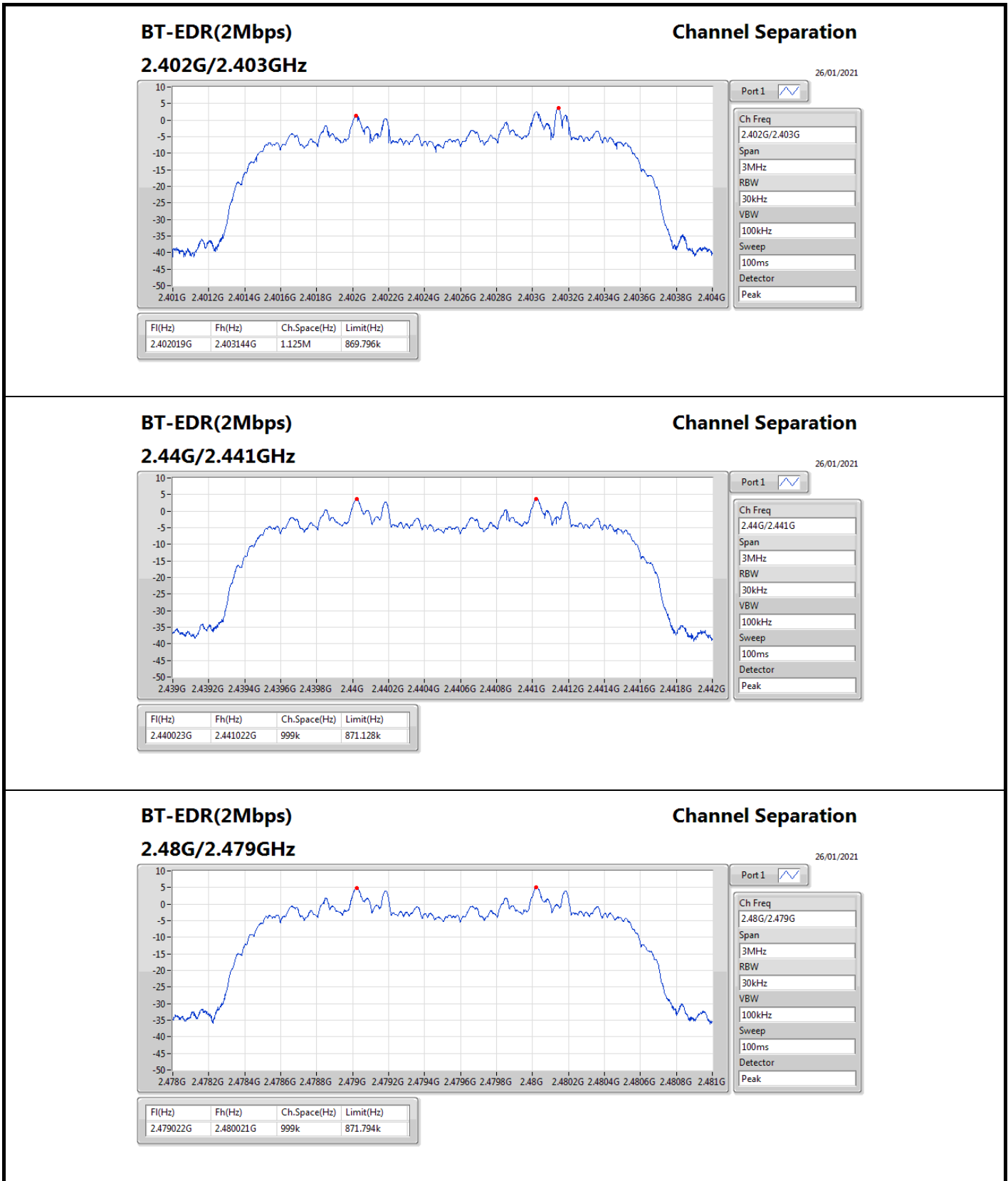


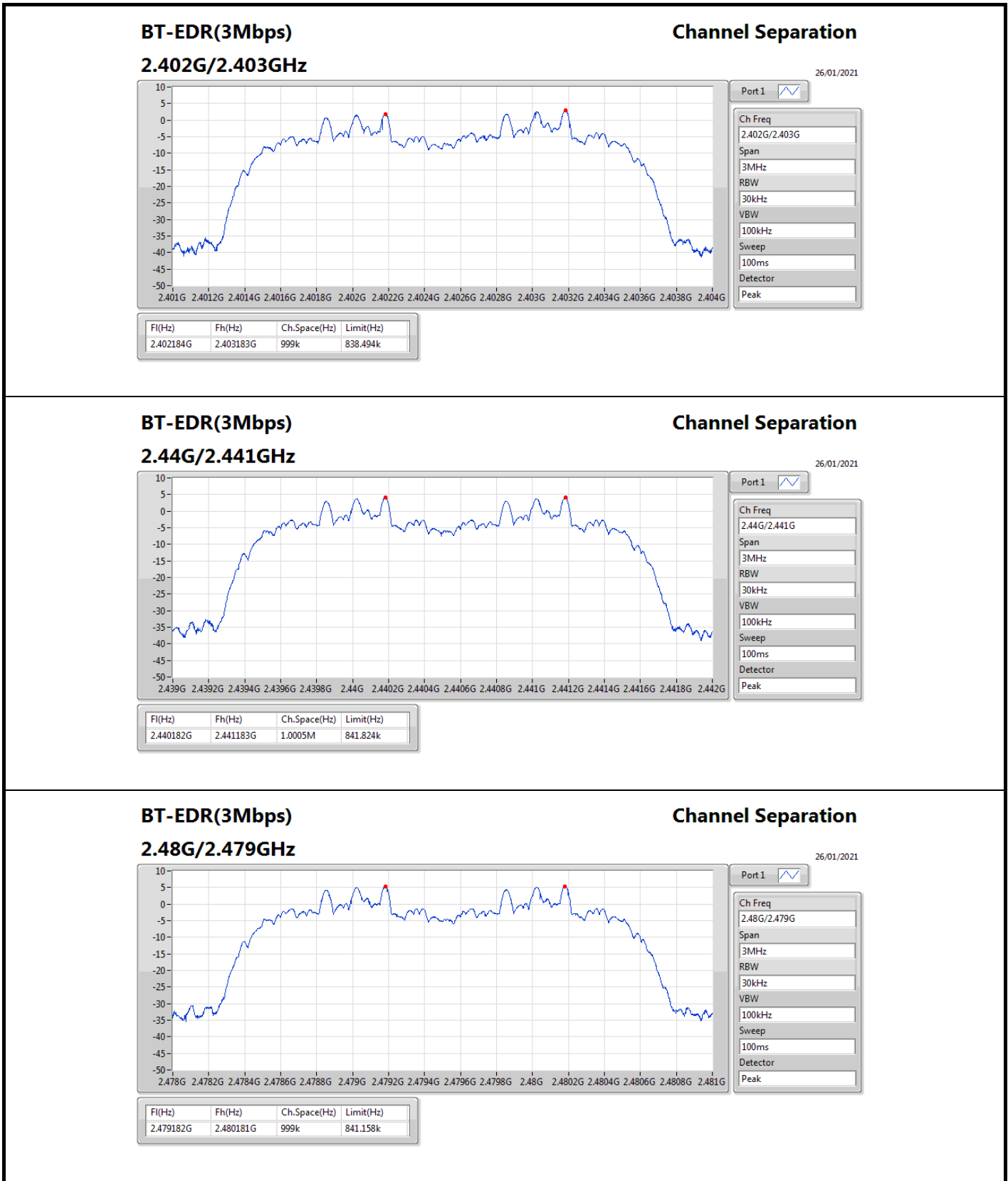
Result

Mode	Result	Fl (Hz)	Fh (Hz)	Ch.Space (Hz)	Limit (Hz)
BT-BR(1Mbps)	-	-	-	-	-
2402MHz	Pass	2.402182G	2.403183G	1.0005M	613.5525k
2440MHz	Pass	2.440184G	2.441181G	997.5k	612.72k
2480MHz	Pass	2.479182G	2.480183G	1.0005M	612.72k
BT-EDR(2Mbps)	-	-	-	-	-
2402MHz	Pass	2.402019G	2.403144G	1.125M	869.796k
2440MHz	Pass	2.440023G	2.441022G	999k	871.128k
2480MHz	Pass	2.479022G	2.480021G	999k	871.794k
BT-EDR(3Mbps)	-	-	-	-	-
2402MHz	Pass	2.402184G	2.403183G	999k	838.494k
2440MHz	Pass	2.440182G	2.441183G	1.0005M	841.824k
2480MHz	Pass	2.479182G	2.480181G	999k	841.158k











**Summary**

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	9.39	0.00869
BT-EDR(2Mbps)	6.34	0.00431
BT-EDR(3Mbps)	6.25	0.00422

**Result**

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	4.00	6.76	21.00
2440MHz	Pass	4.00	8.56	21.00
2480MHz	Pass	4.00	9.39	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	4.00	2.75	21.00
2440MHz	Pass	4.00	4.97	21.00
2480MHz	Pass	4.00	6.34	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	4.00	2.76	21.00
2440MHz	Pass	4.00	4.98	21.00
2480MHz	Pass	4.00	6.25	21.00

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



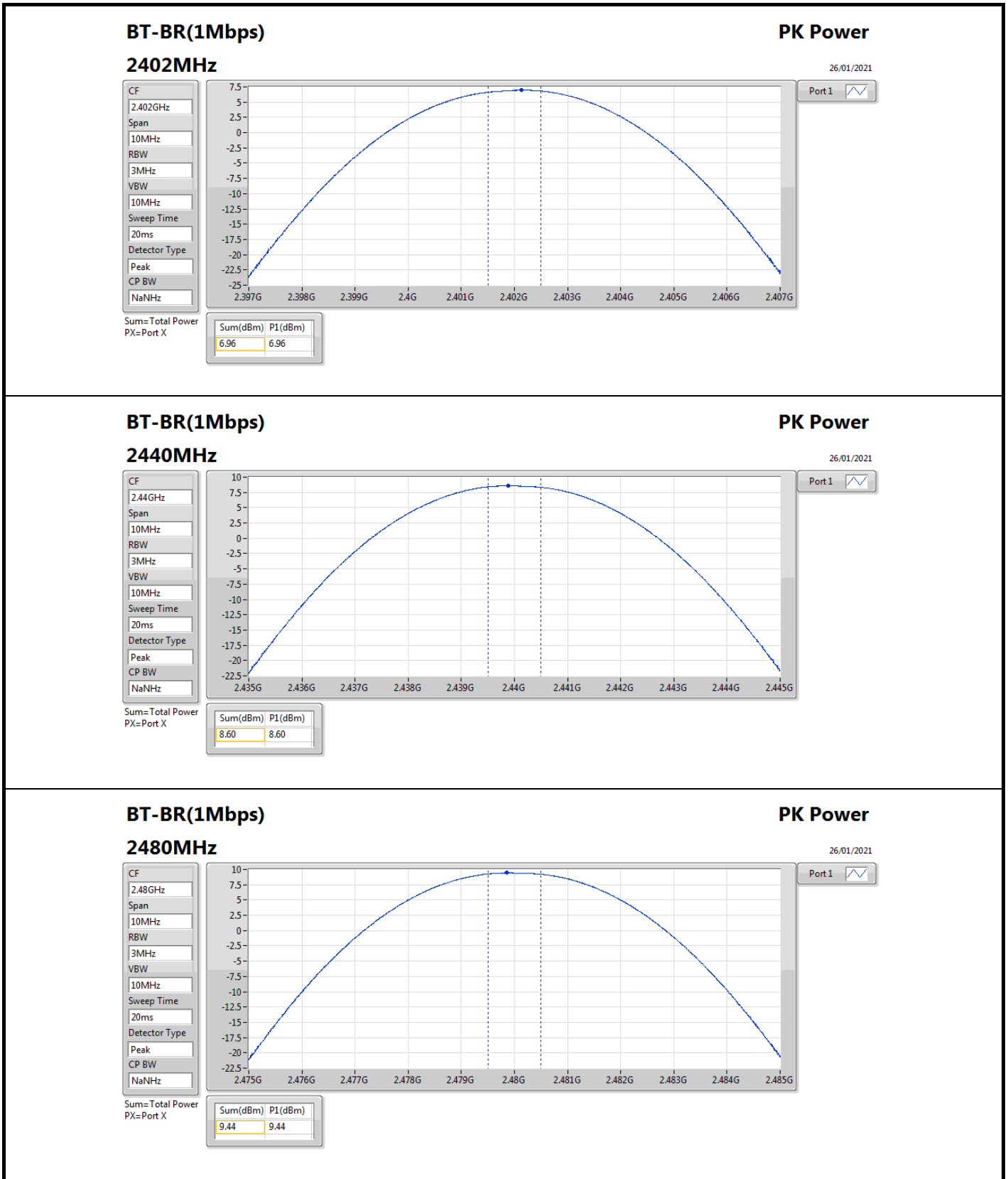
Summary

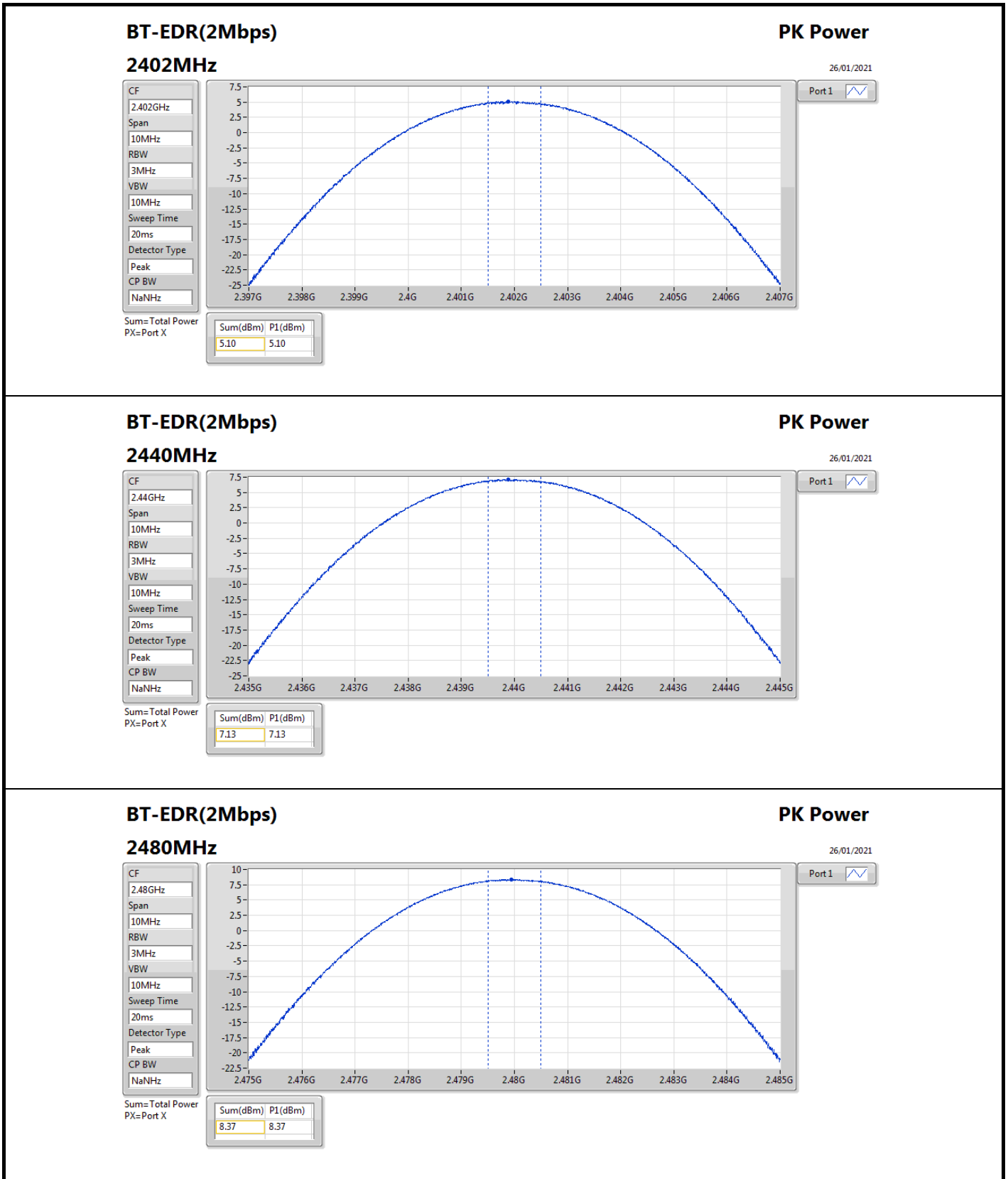
Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	9.44	0.00879
BT-EDR(2Mbps)	8.37	0.00687
BT-EDR(3Mbps)	8.67	0.00736

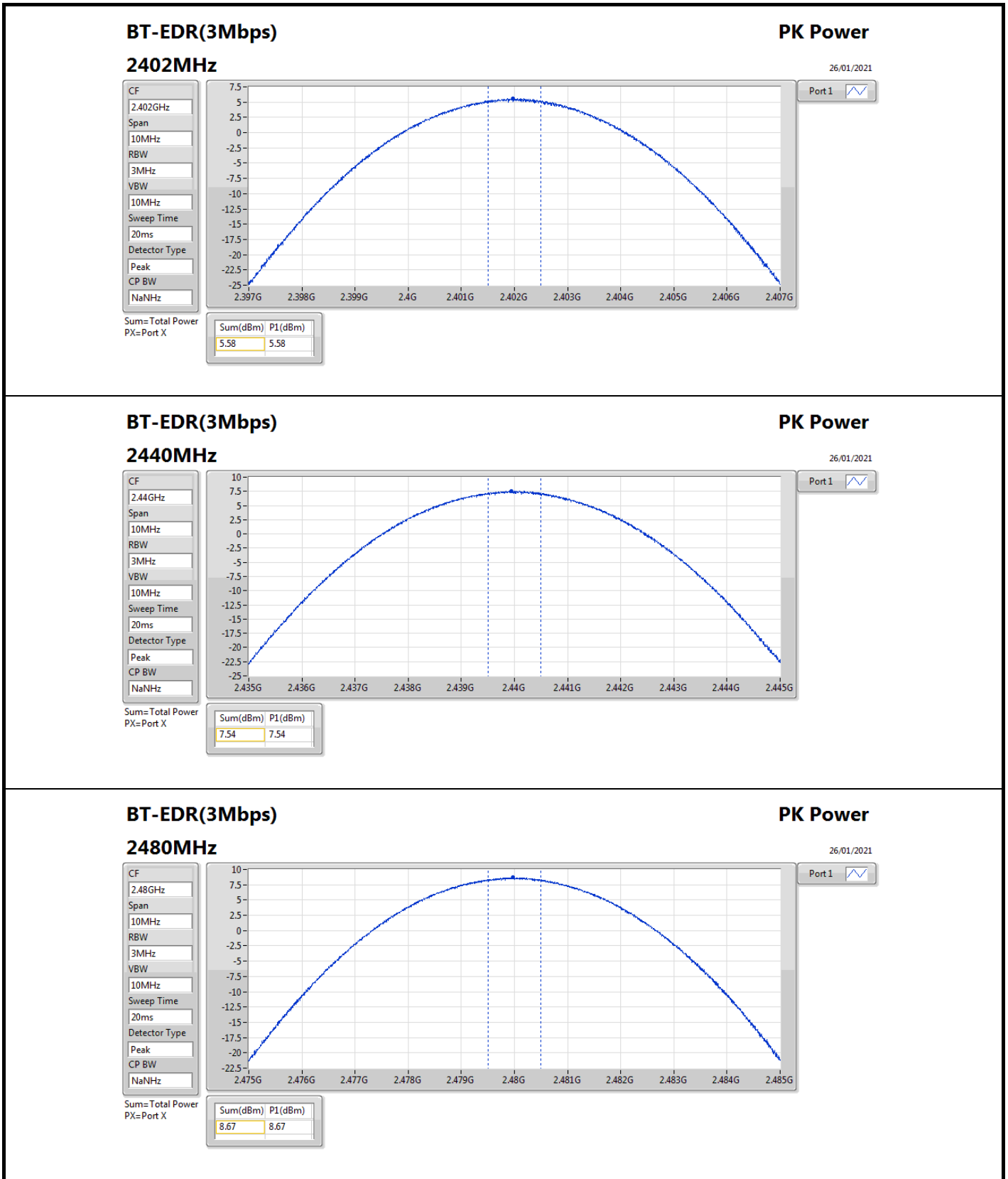
Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	4.00	6.96	21.00
2440MHz	Pass	4.00	8.60	21.00
2480MHz	Pass	4.00	9.44	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	4.00	5.10	21.00
2440MHz	Pass	4.00	7.13	21.00
2480MHz	Pass	4.00	8.37	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	4.00	5.58	21.00
2440MHz	Pass	4.00	7.54	21.00
2480MHz	Pass	4.00	8.67	21.00

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









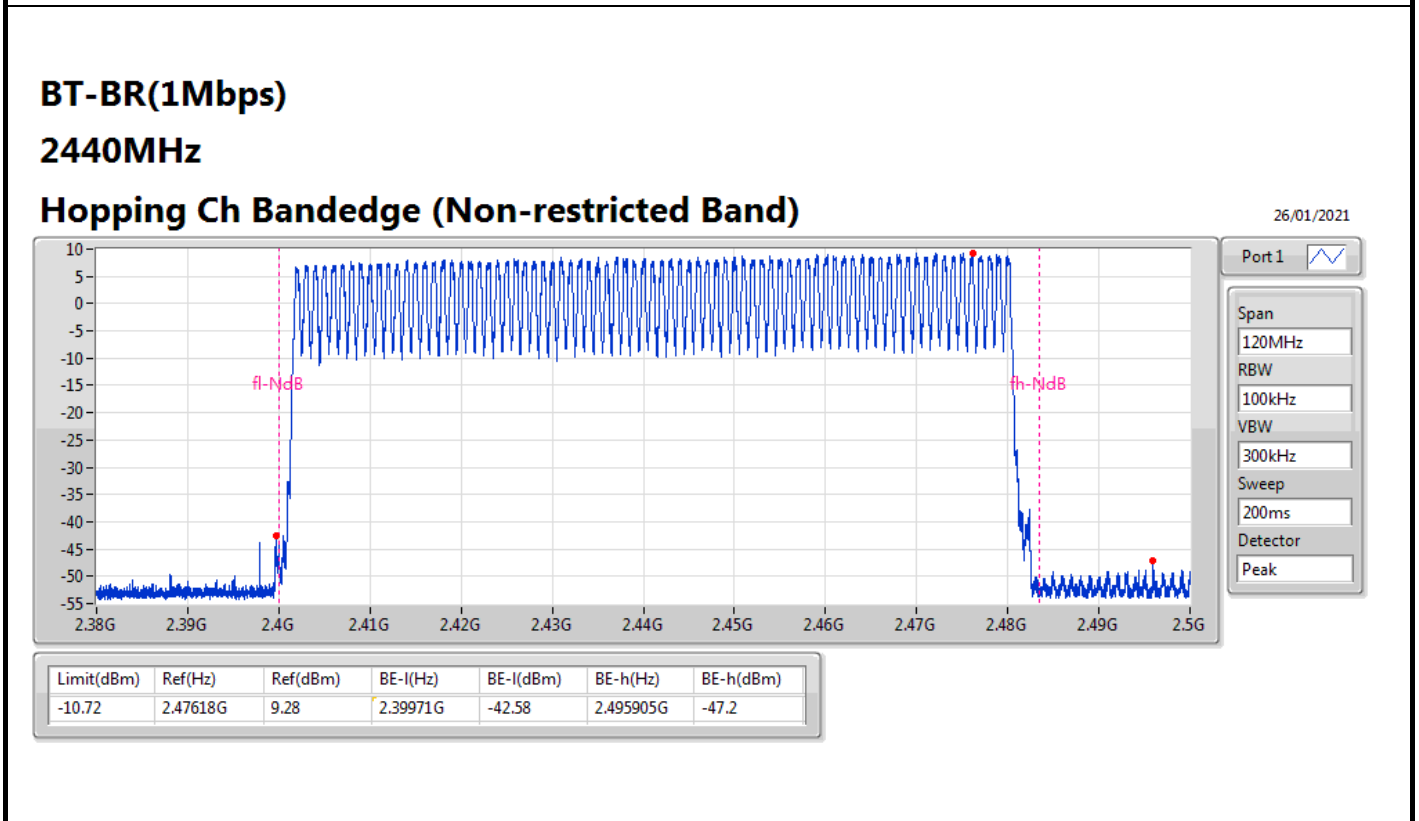
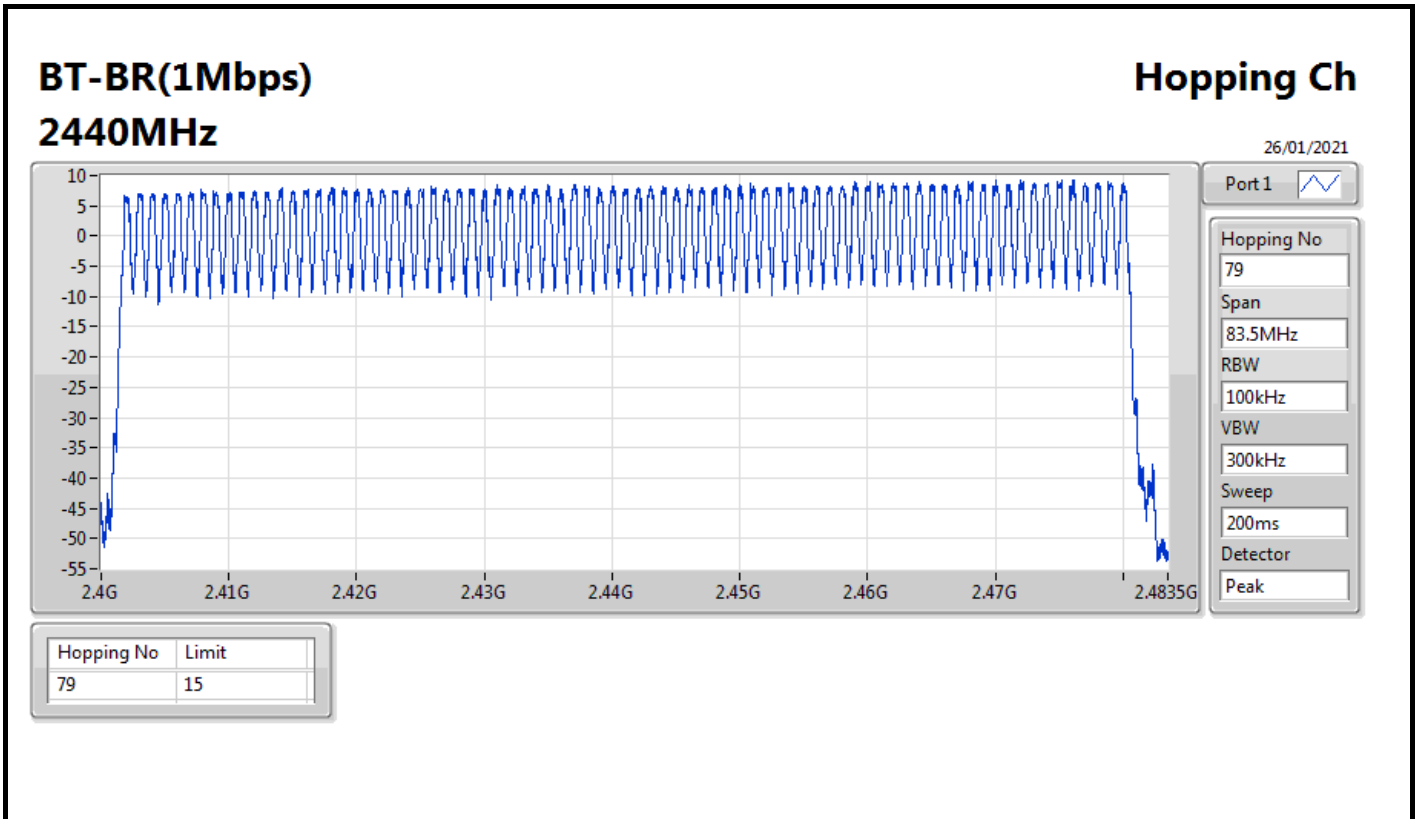
Summary

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

Result

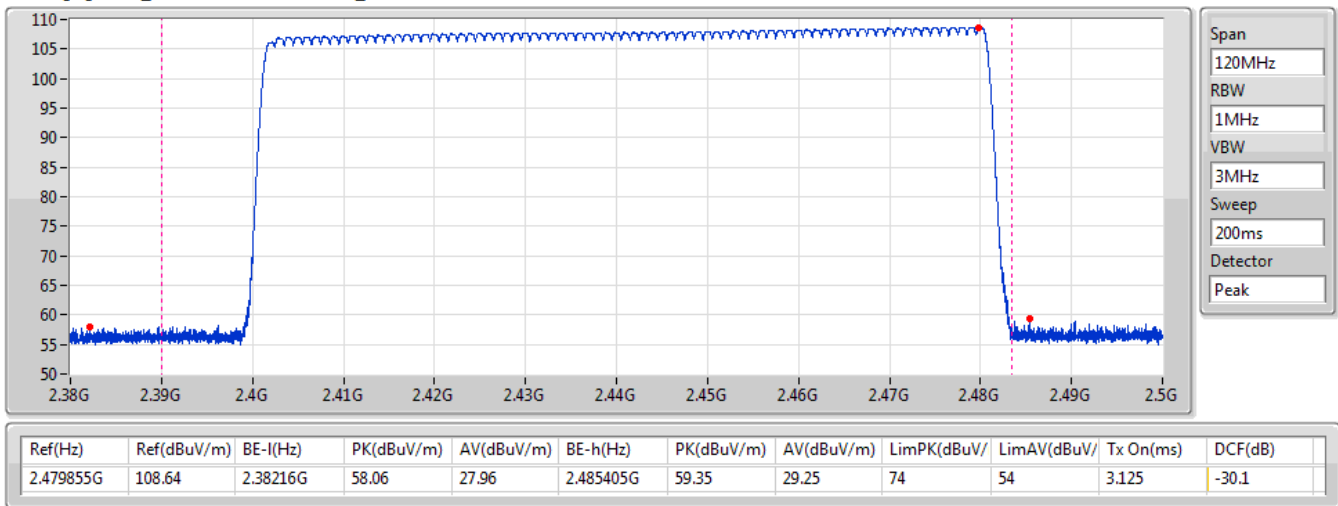
Mode	Result	Hopping No	Limit
BT-BR(1Mbps)	-	-	-
2440MHz	Pass	79	15
BT-EDR(2Mbps)	-	-	-
2440MHz	Pass	79	15
BT-EDR(3Mbps)	-	-	-
2440MHz	Pass	79	15





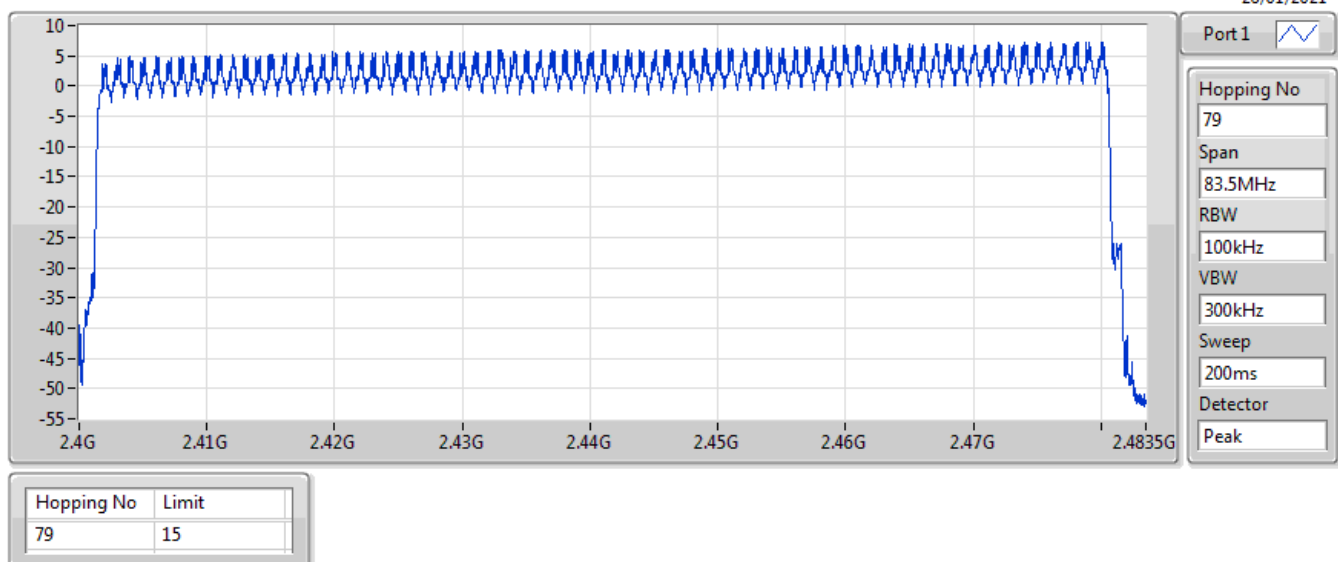
**BT-BR(1Mbps)**  
**2440MHz**  
**Hopping Ch Bandedge (Restricted Band)**

26/01/2021



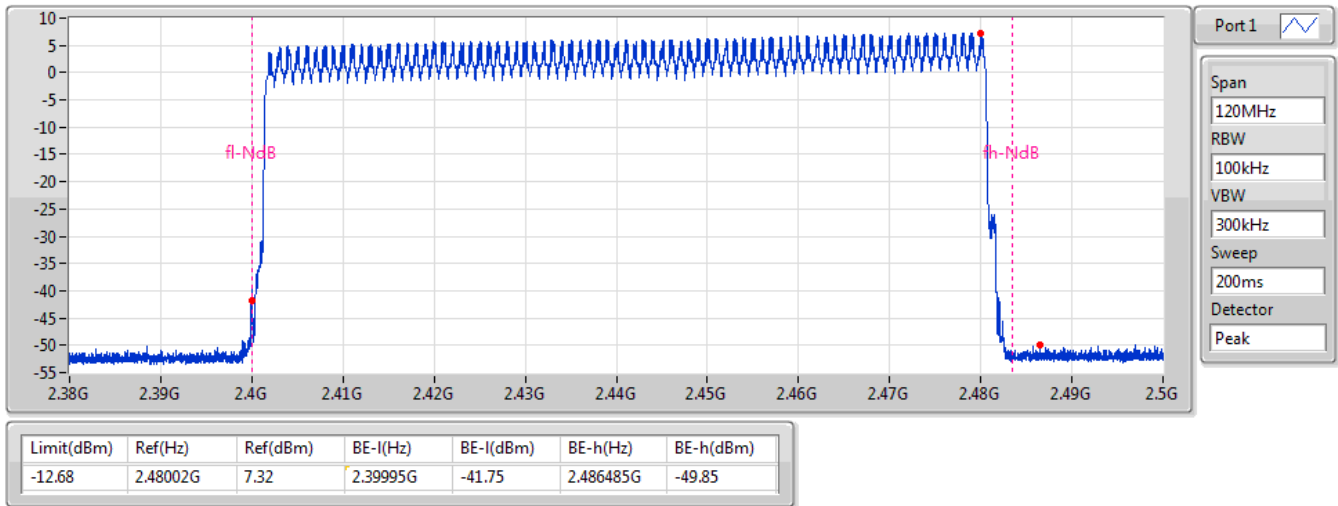
**BT-EDR(2Mbps)** **Hopping Ch**  
**2440MHz**

26/01/2021



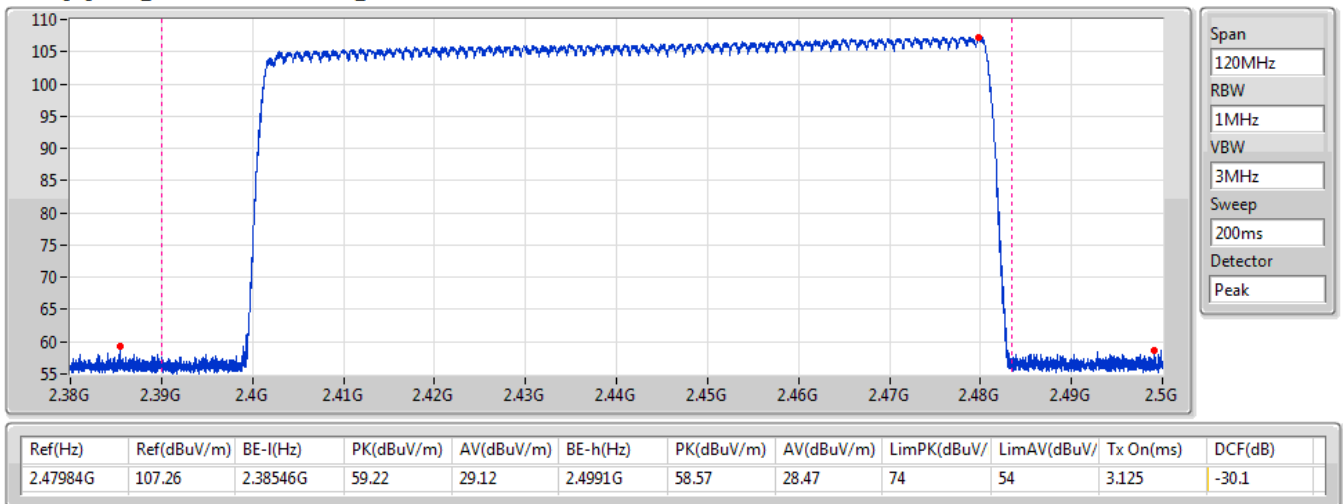
**BT-EDR(2Mbps)**  
**2440MHz**  
**Hopping Ch Bandedge (Non-restricted Band)**

26/01/2021



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

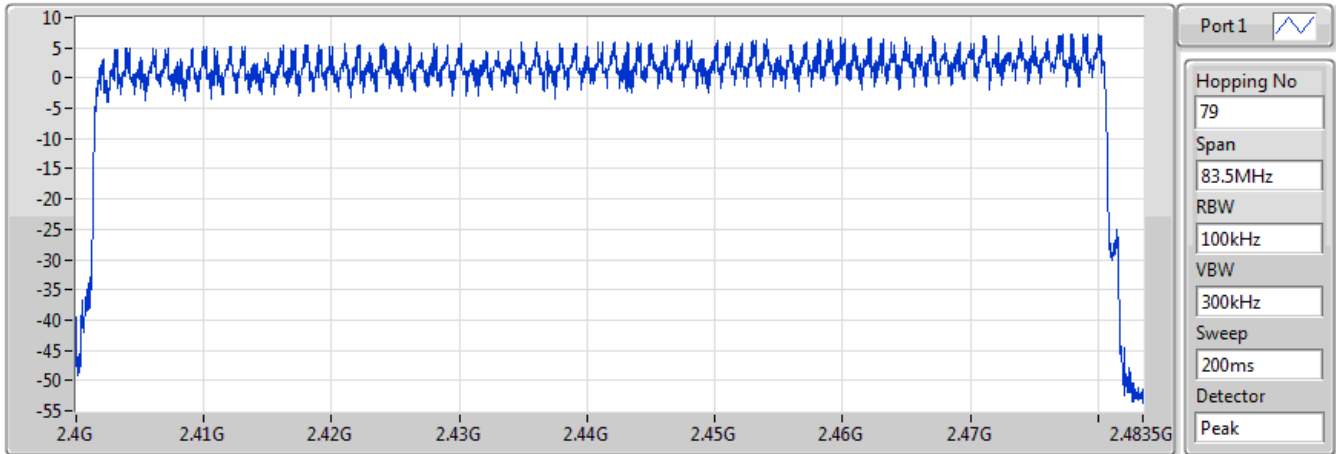
26/01/2021



**BT-EDR(3Mbps)**  
**2440MHz**

**Hopping Ch**

26/01/2021



Port 1

Hopping No  
79

Span  
83.5MHz

RBW  
100kHz

VBW  
300kHz

Sweep  
200ms

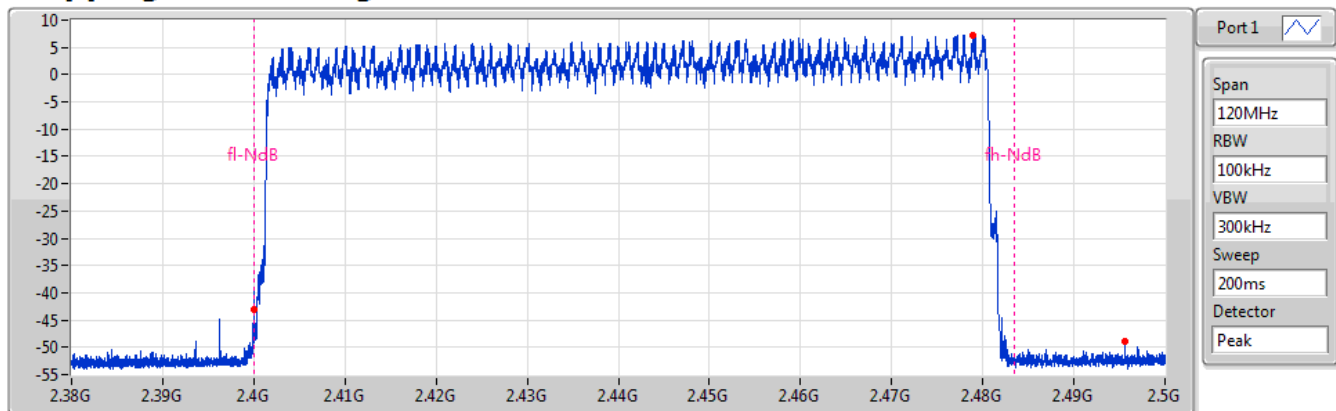
Detector  
Peak

Hopping No	Limit
79	15

**BT-EDR(3Mbps)**  
**2440MHz**

**Hopping Ch Bandedge (Non-restricted Band)**

26/01/2021



Port 1

Span  
120MHz

RBW  
100kHz

VBW  
300kHz

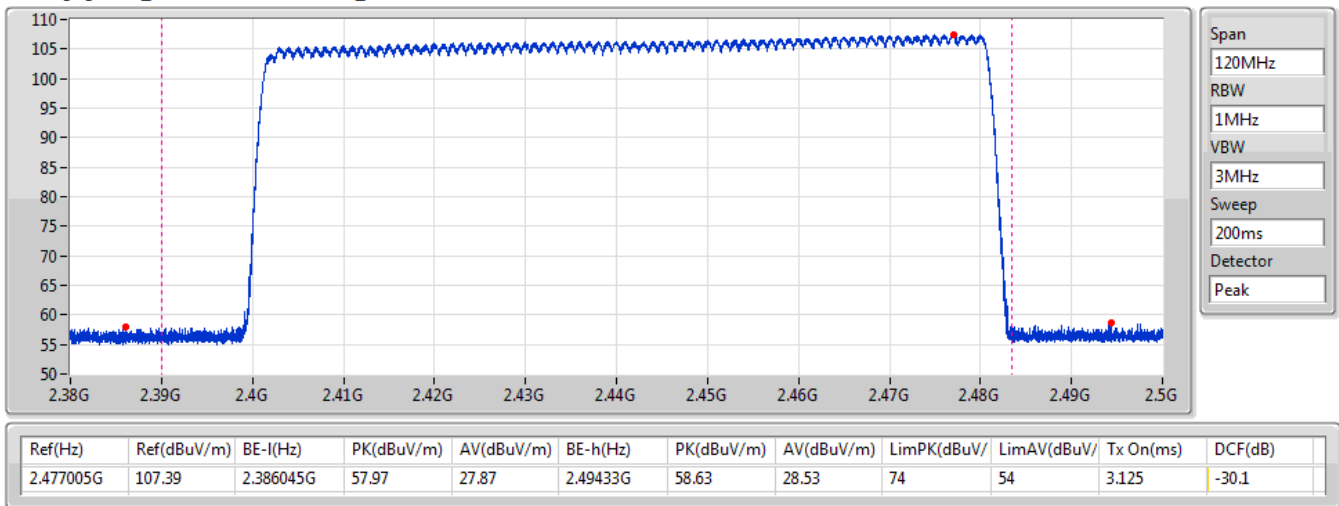
Sweep  
200ms

Detector  
Peak

Limit(dBm)	Ref(Hz)	Ref(dBm)	BE-l(Hz)	BE-l(dBm)	BE-h(Hz)	BE-h(dBm)
-12.69	2.478865G	7.31	2.399995G	-42.98	2.495575G	-48.97

**BT-EDR(3Mbps)**  
**2440MHz**  
**Hopping Ch Bandedge (Restricted Band)**

26/01/2021



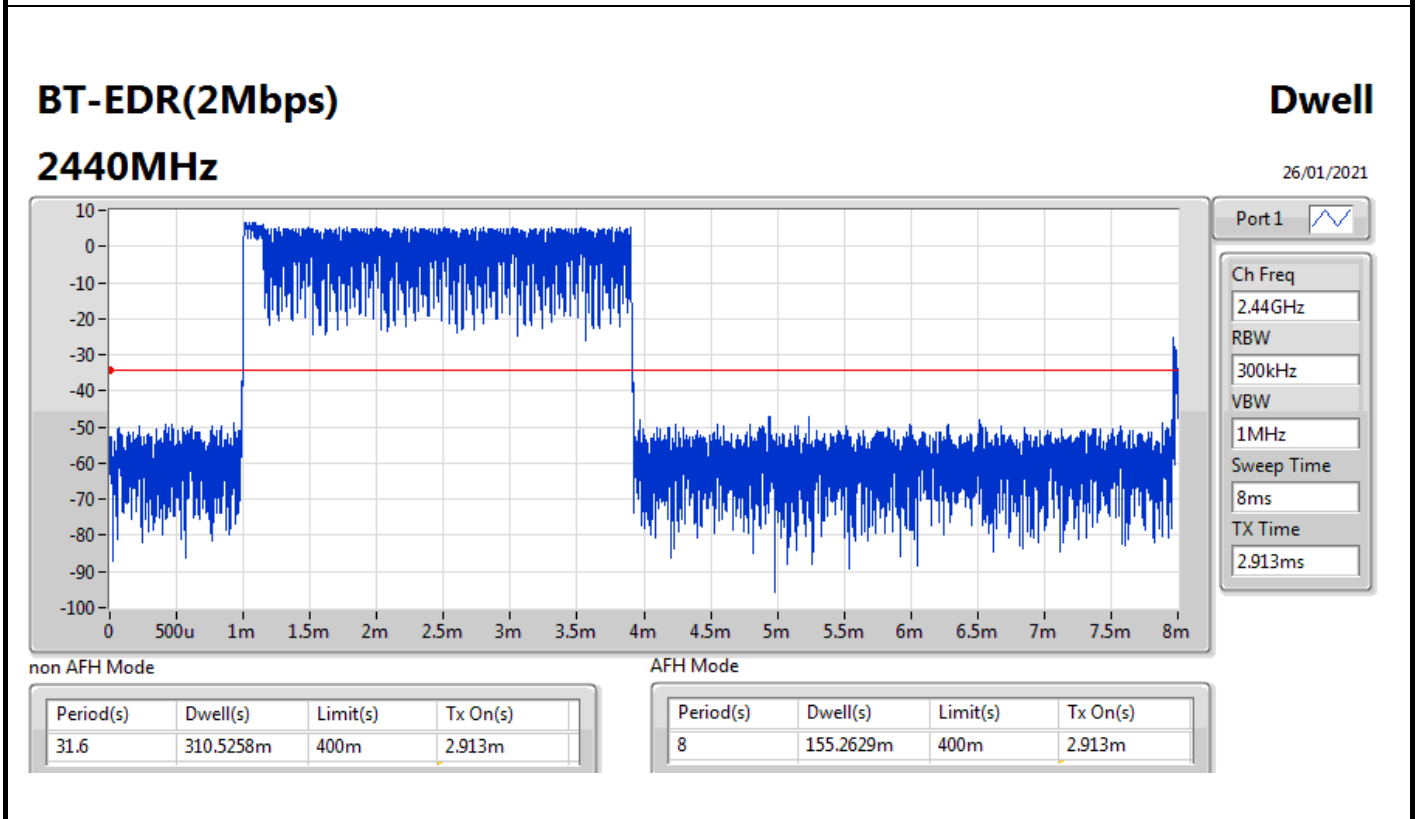
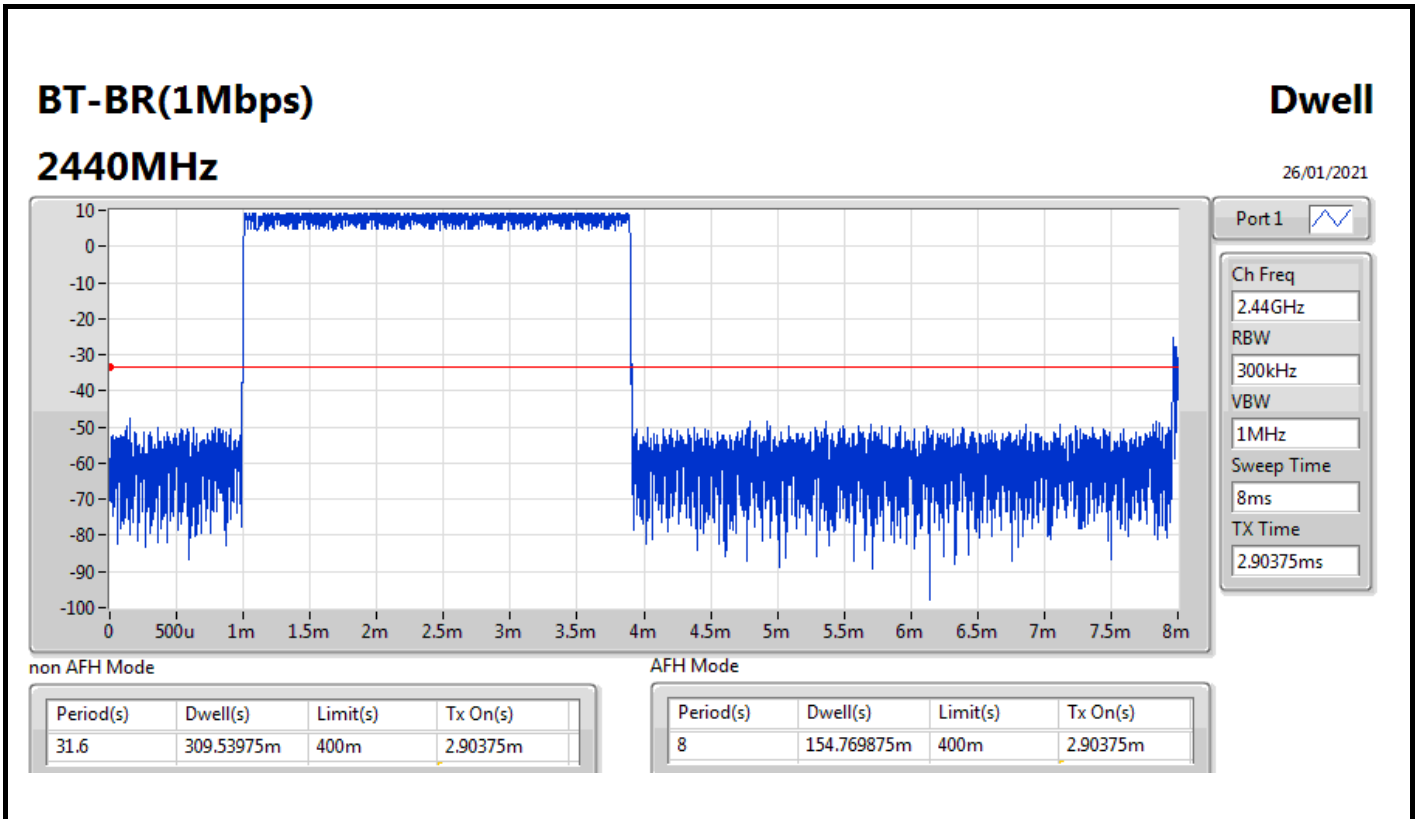


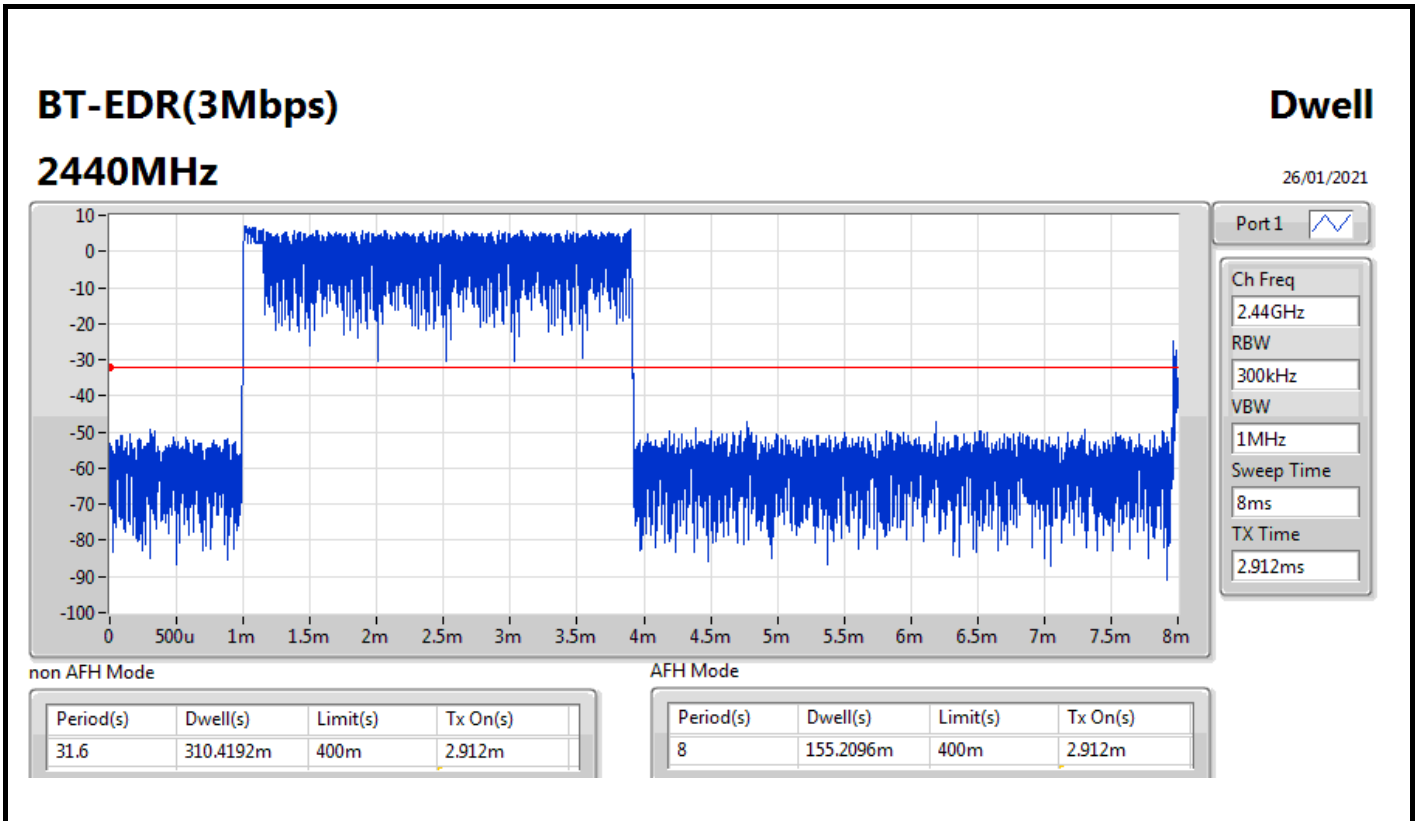
Summary

Mode	Max-Dwell (s)
2.4-2.4835GHz	-
BT-BR(1Mbps)	309.53975m
BT-EDR(2Mbps)	310.5258m
BT-EDR(3Mbps)	310.4192m

Result

Mode	Result	Period (s)	Dwell (s)	Limit (s)	Tx On (s)
BT-BR(1Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	309.53975m	400m	2.90375m
BT-EDR(2Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	310.5258m	400m	2.913m
BT-EDR(3Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	310.4192m	400m	2.912m







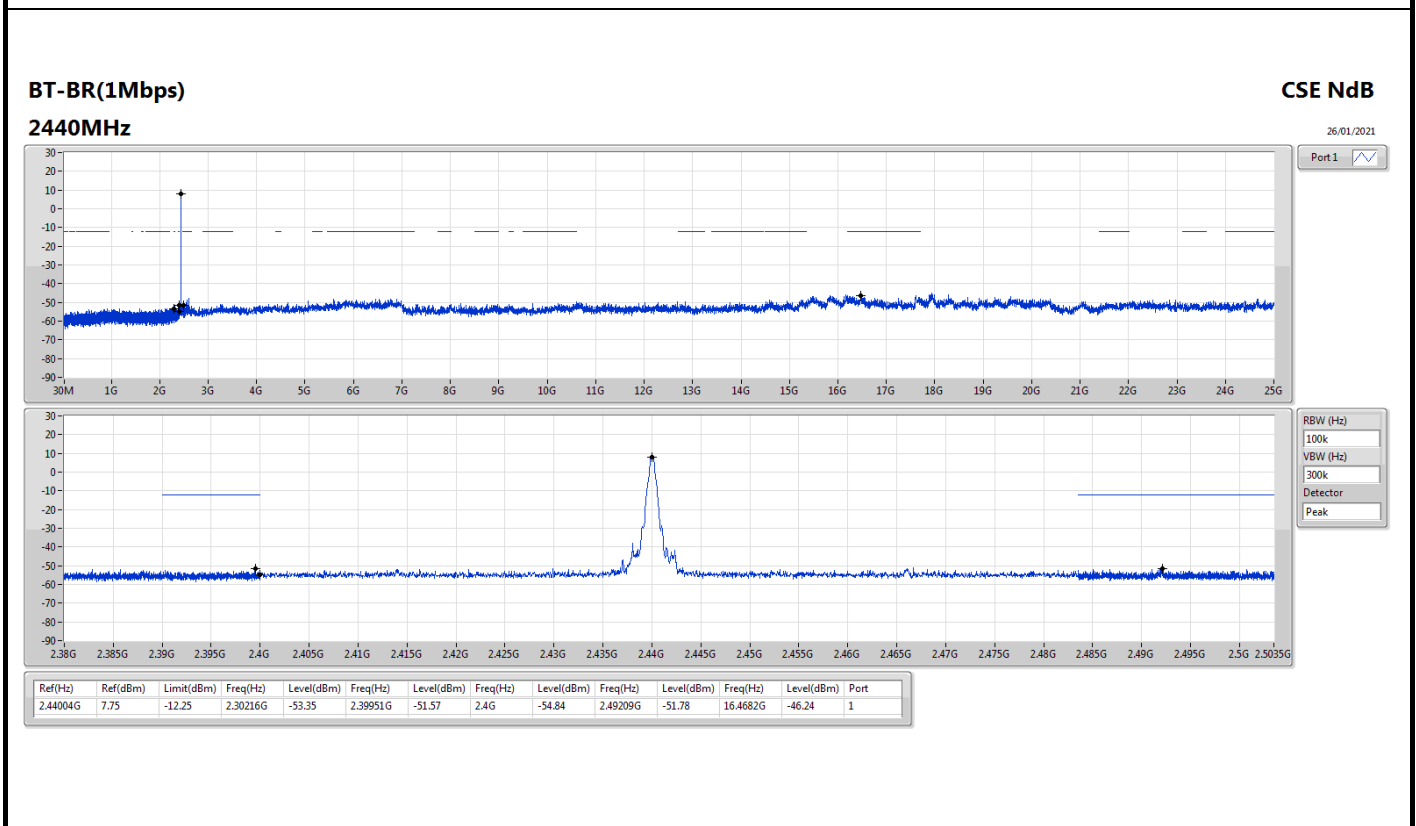
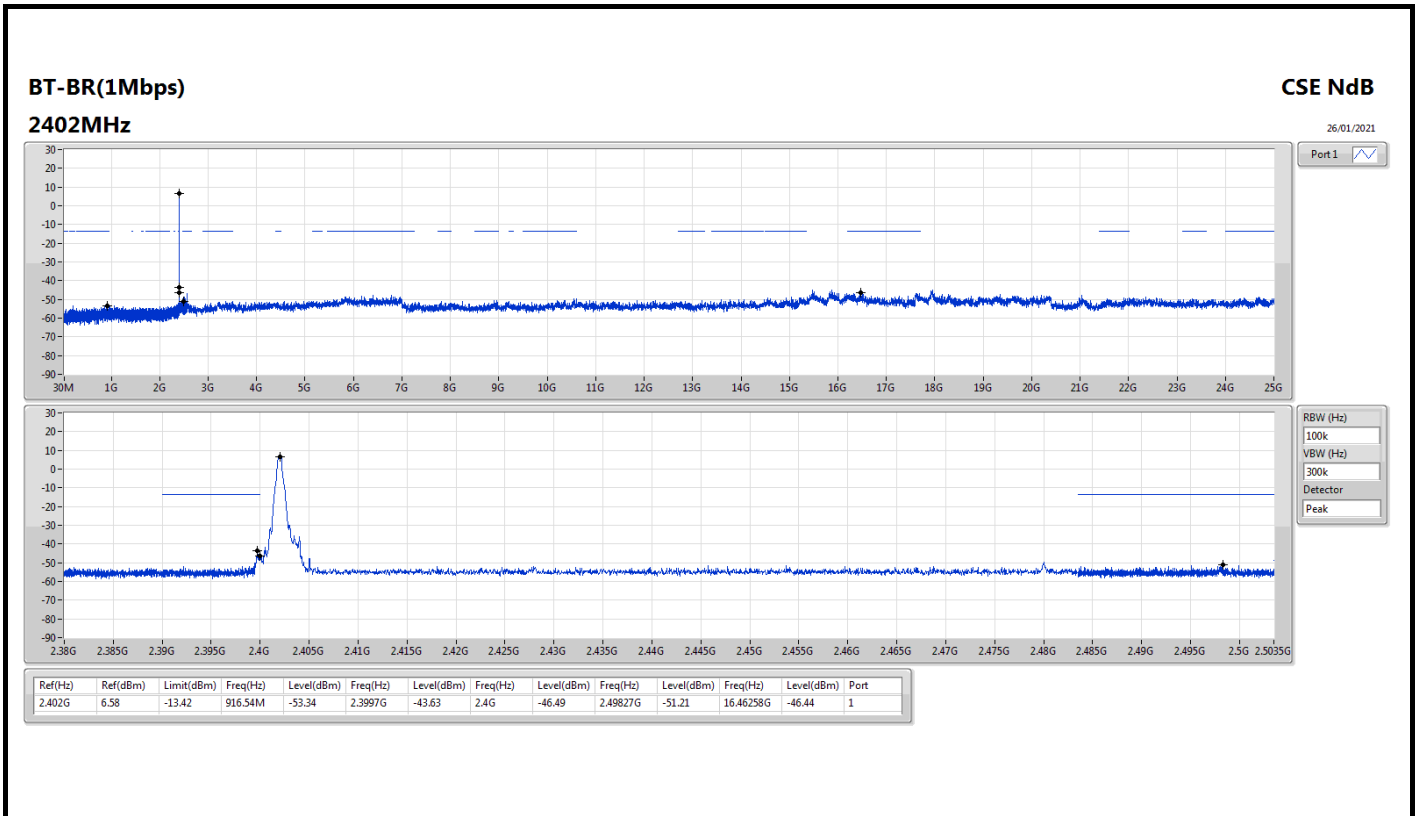


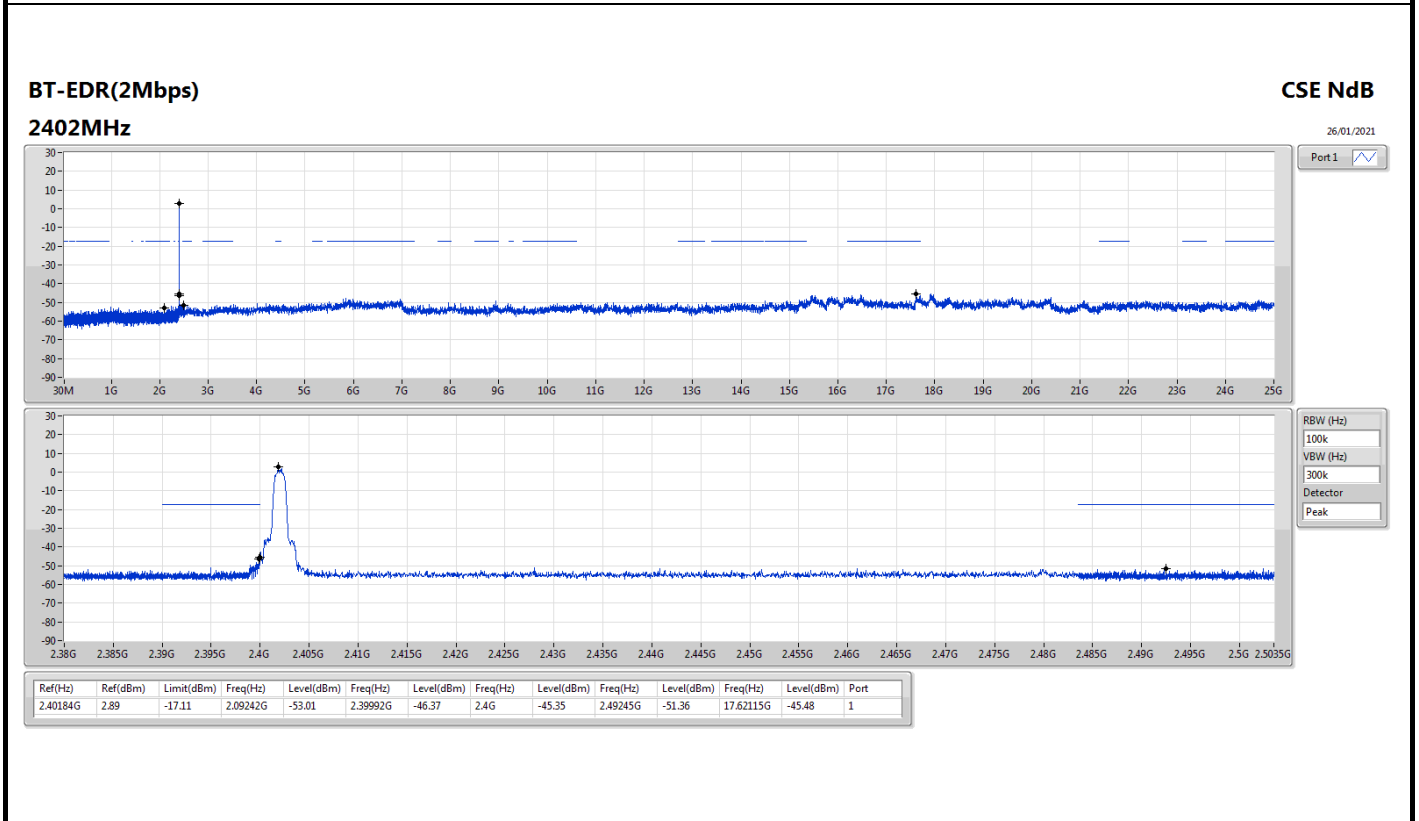
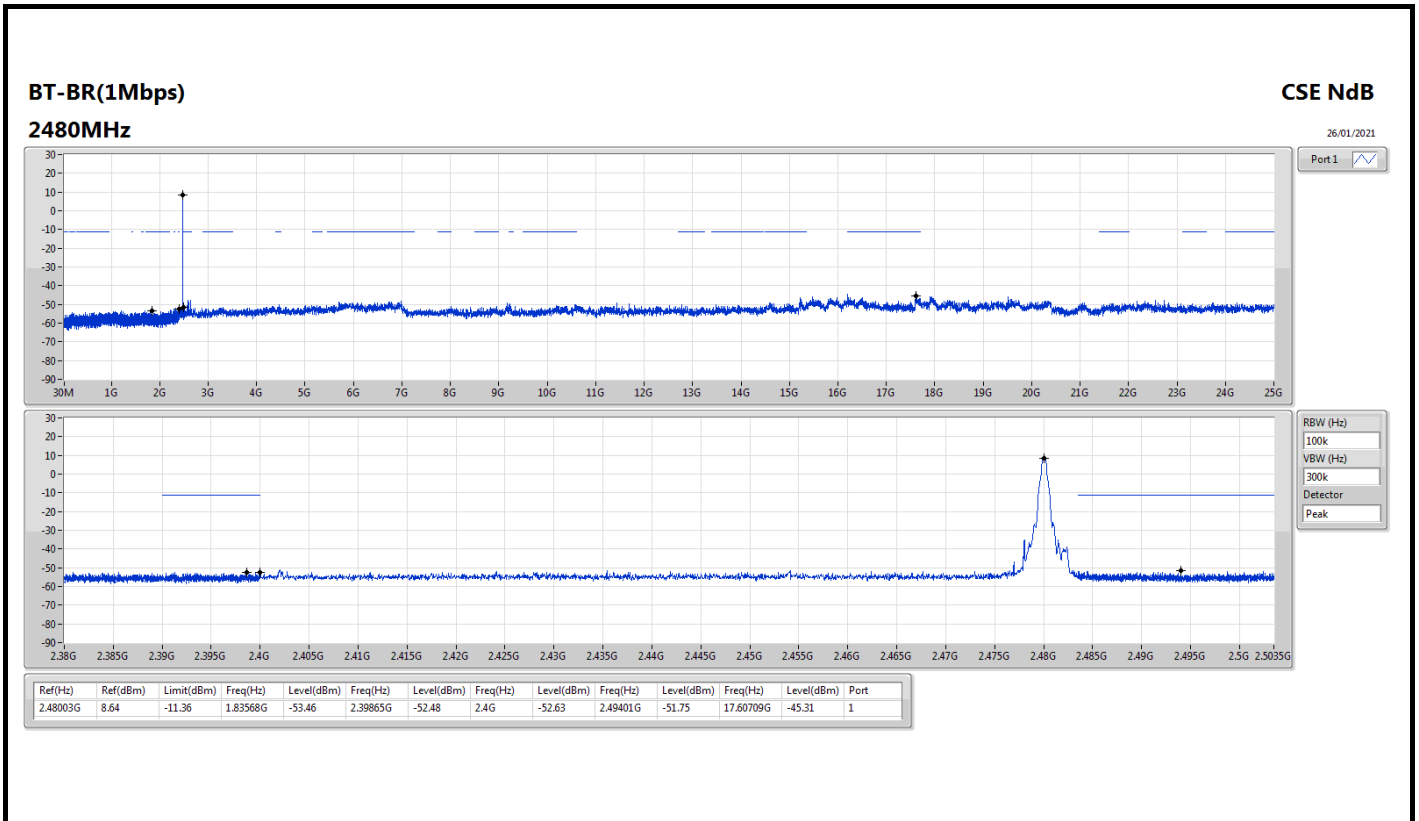
Summary

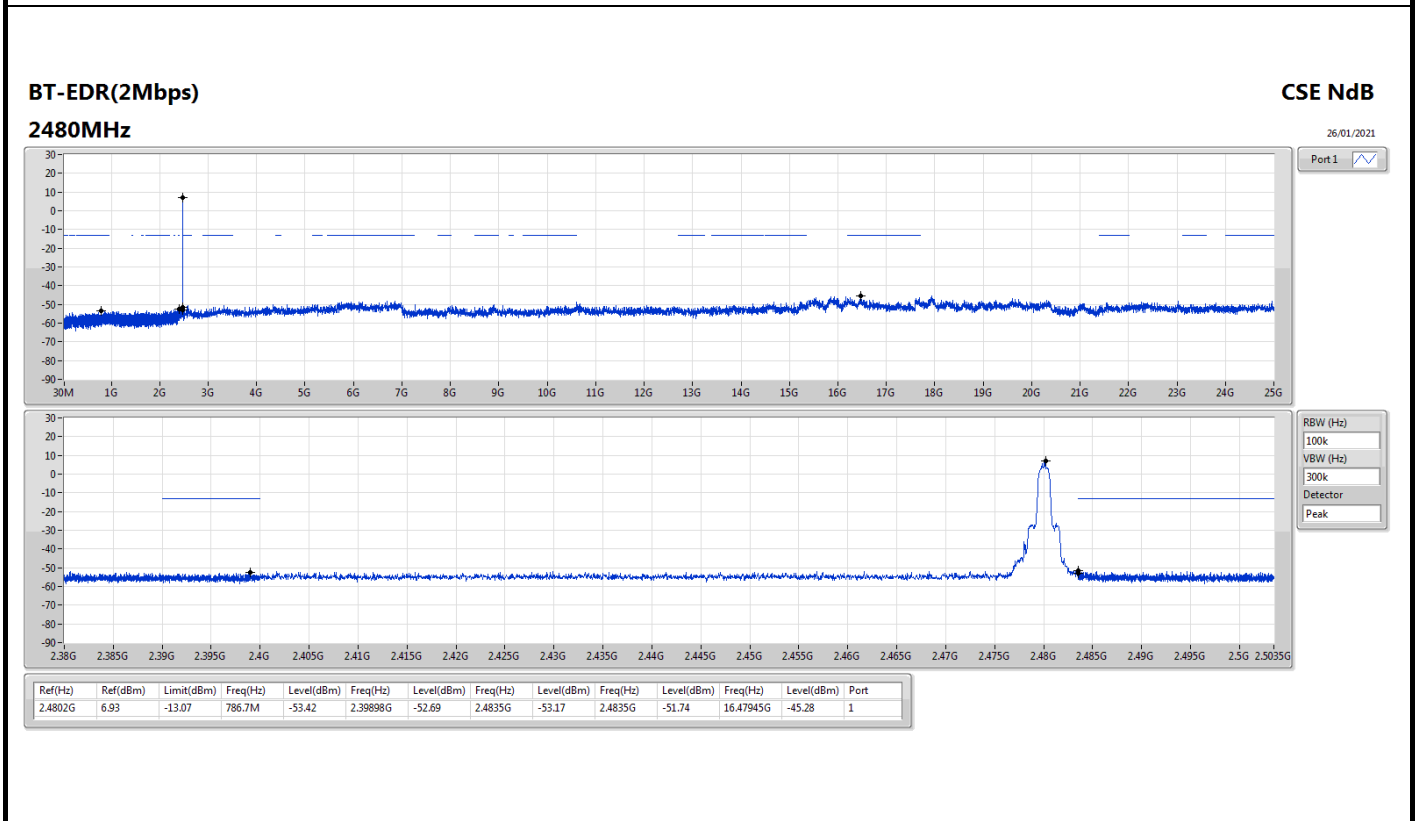
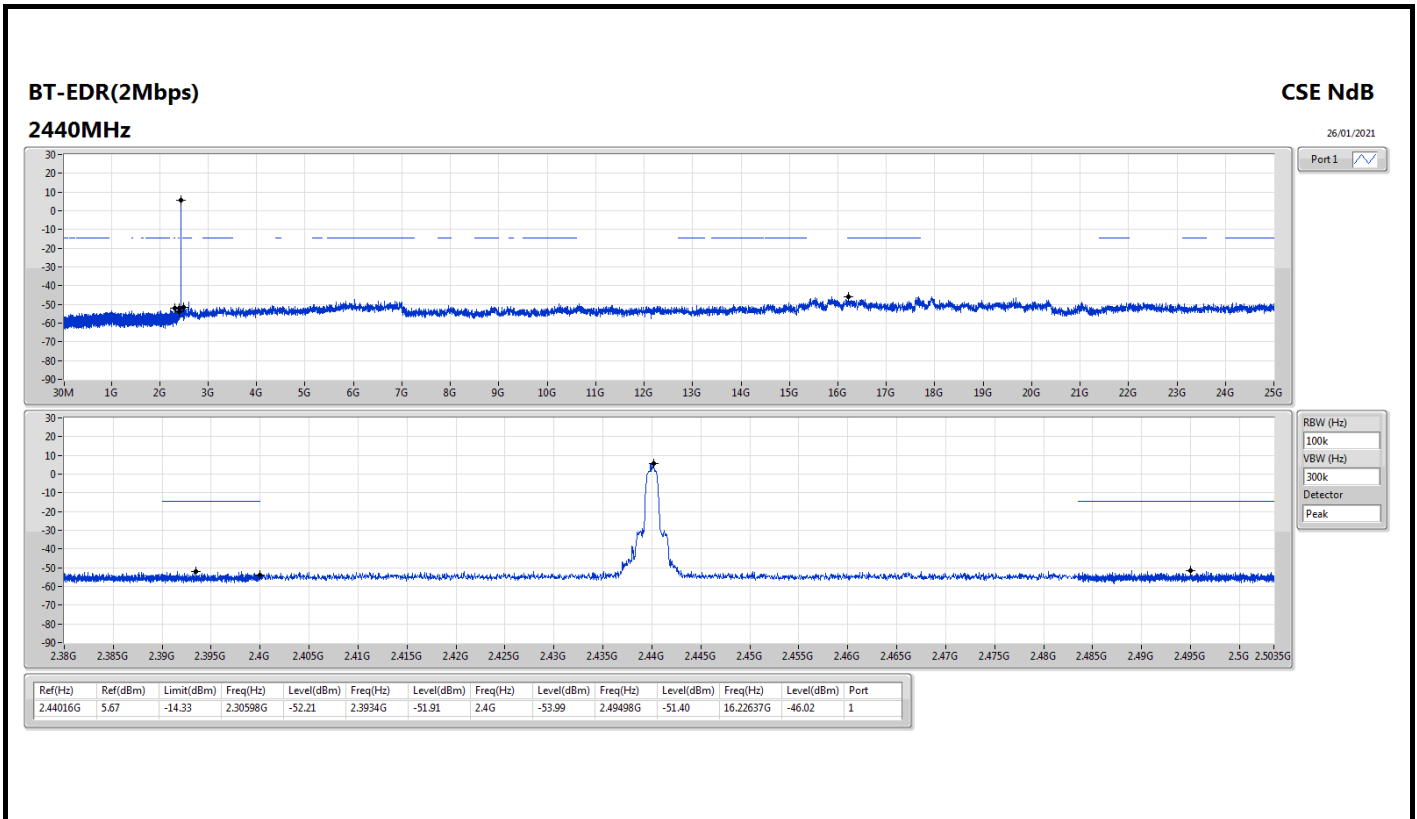
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-BR(1Mbps)	Pass	2.402G	6.58	-13.42	916.54M	-53.34	2.3997G	-43.63	2.4G	-46.49	2.49827G	-51.21	16.46258G	-46.44	1
BT-EDR(2Mbps)	Pass	2.40184G	2.89	-17.11	2.09242G	-53.01	2.39992G	-46.37	2.4G	-45.35	2.49245G	-51.36	17.62115G	-45.48	1
BT-EDR(3Mbps)	Pass	2.402G	3.56	-16.44	1.77928G	-53.38	2.39997G	-40.15	2.4G	-45.51	2.49867G	-51.75	16.21793G	-45.65	1

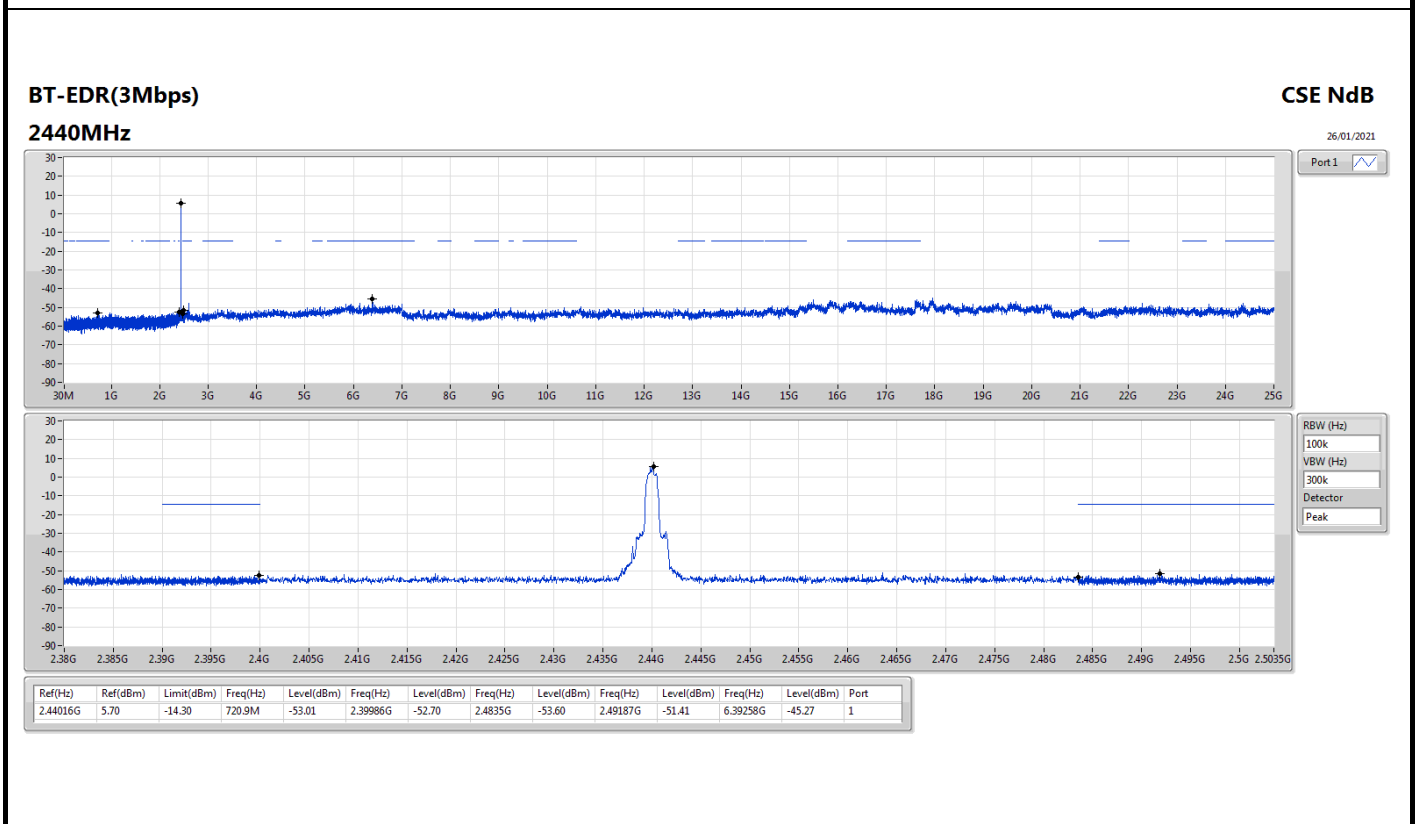
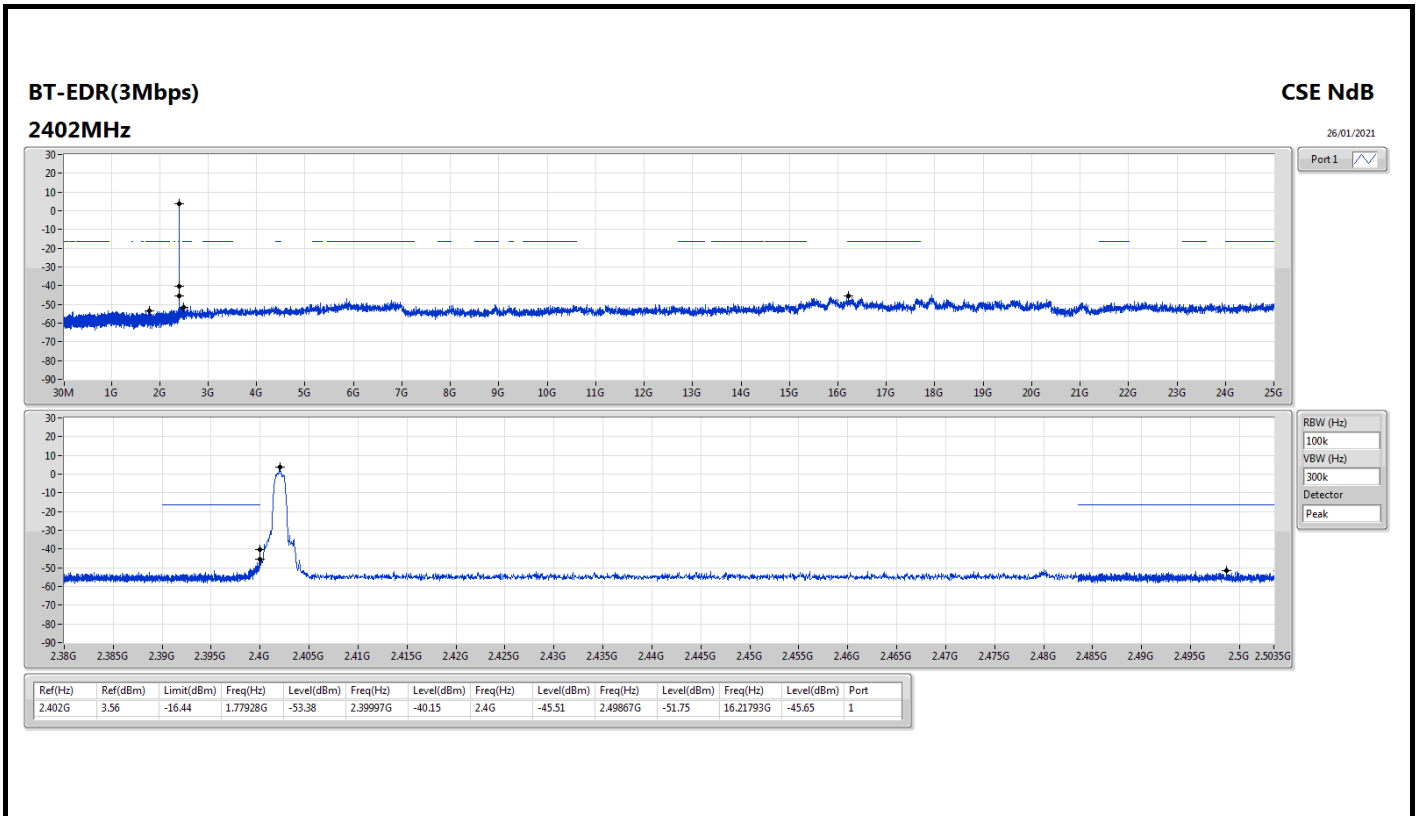
Result

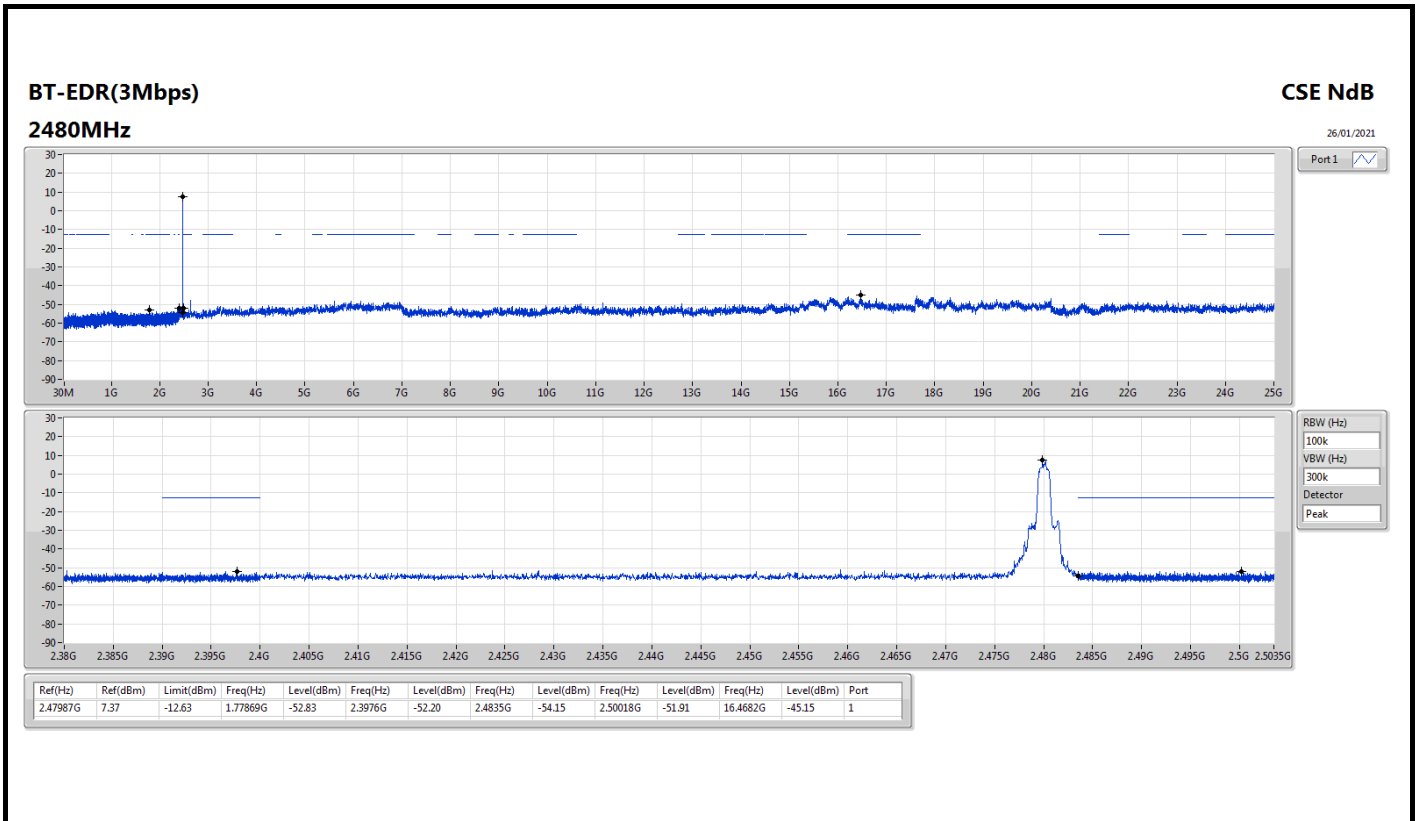
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.402G	6.58	-13.42	916.54M	-53.34	2.3997G	-43.63	2.4G	-46.49	2.49827G	-51.21	16.46258G	-46.44	1
2440MHz	Pass	2.44004G	7.75	-12.25	2.30216G	-53.35	2.39951G	-51.57	2.4G	-54.84	2.49209G	-51.78	16.4682G	-46.24	1
2480MHz	Pass	2.48003G	8.64	-11.36	1.83568G	-53.46	2.39865G	-52.48	2.4G	-52.63	2.49401G	-51.75	17.60709G	-45.31	1
BT-EDR(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40184G	2.89	-17.11	2.09242G	-53.01	2.39992G	-46.37	2.4G	-45.35	2.49245G	-51.36	17.62115G	-45.48	1
2440MHz	Pass	2.44016G	5.67	-14.33	2.30598G	-52.21	2.3934G	-51.91	2.4G	-53.99	2.49498G	-51.40	16.22637G	-46.02	1
2480MHz	Pass	2.4802G	6.93	-13.07	786.7M	-53.42	2.39898G	-52.69	2.4835G	-53.17	2.4835G	-51.74	16.47945G	-45.28	1
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.402G	3.56	-16.44	1.77928G	-53.38	2.39997G	-40.15	2.4G	-45.51	2.49867G	-51.75	16.21793G	-45.65	1
2440MHz	Pass	2.44016G	5.70	-14.30	720.9M	-53.01	2.39986G	-52.70	2.4835G	-53.60	2.49187G	-51.41	6.39258G	-45.27	1
2480MHz	Pass	2.47987G	7.37	-12.63	1.77869G	-52.83	2.3976G	-52.20	2.4835G	-54.15	2.50018G	-51.91	16.4682G	-45.15	1







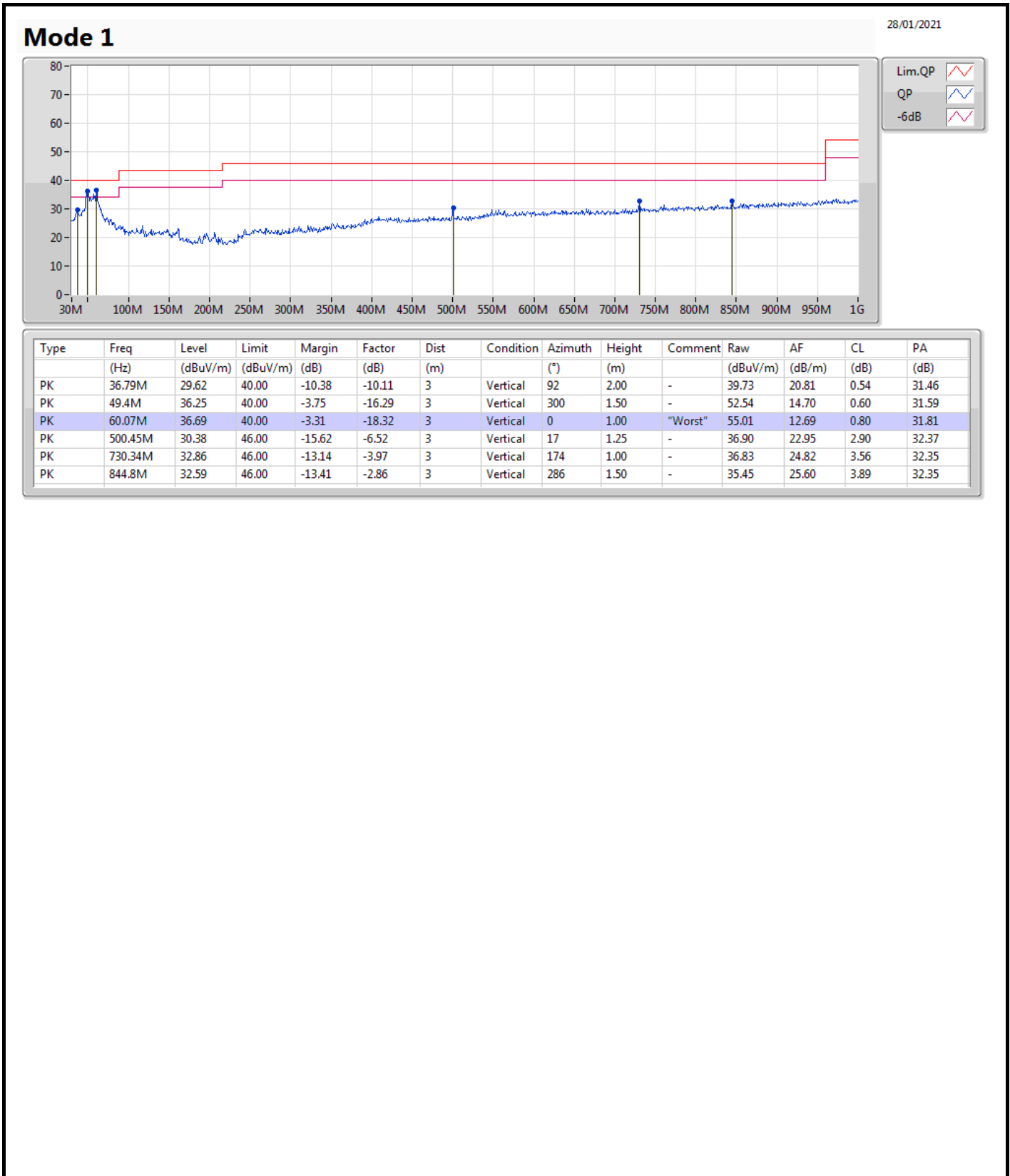




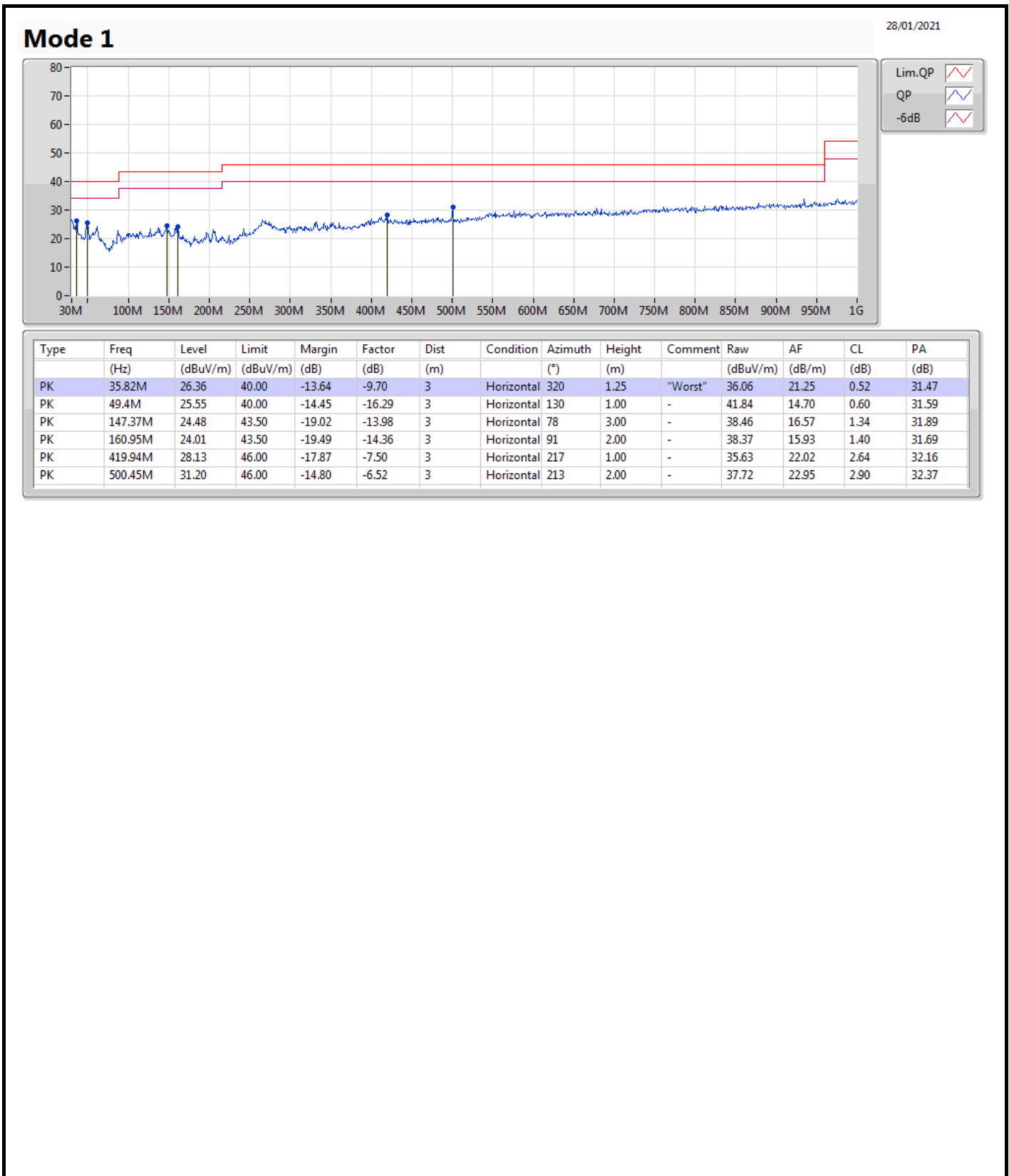


**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	PK	60.07M	36.69	40.00	-3.31	Vertical









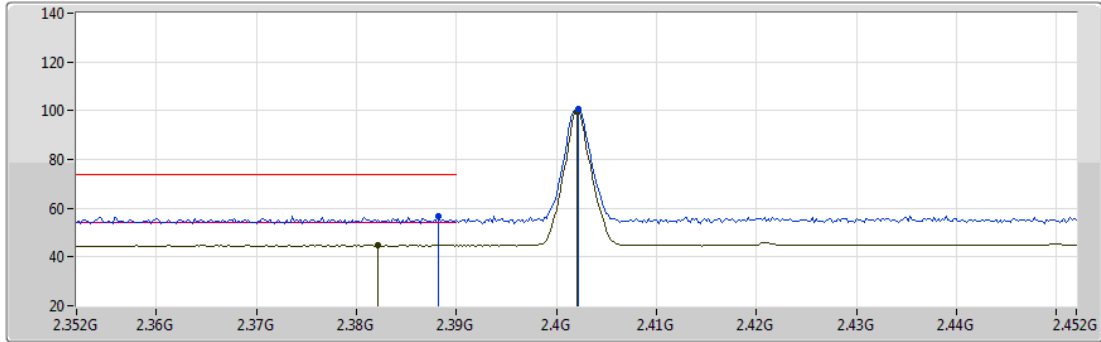
Summary

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	2.4835G	51.25	54.00	-2.75	3	Horizontal	55	1.17	-

**BT-BR(1Mbps)**

25/01/2021

**2402MHz\_TX**



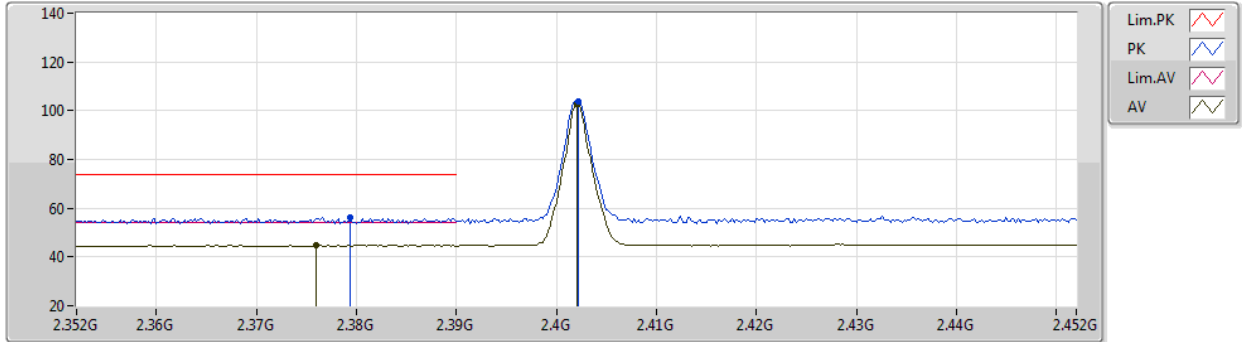
EUT\_Z\_1TX  
Setting 63  
03-F-C-5

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	2.3882G	56.66	74.00	-17.34	23.82	3	Vertical	0	1.25	-	29.35	3.49	-
AV	2.3822G	44.78	54.00	-9.22	11.97	3	Vertical	0	1.25	-	29.33	3.48	-
PK	2.4022G	100.66	Inf	-Inf	67.76	3	Vertical	0	1.25	-	29.40	3.50	-
AV	2.402G	99.70	Inf	-Inf	66.80	3	Vertical	0	1.25	-	29.40	3.50	-

**BT-BR(1Mbps)**

25/01/2021

**2402MHz\_TX**



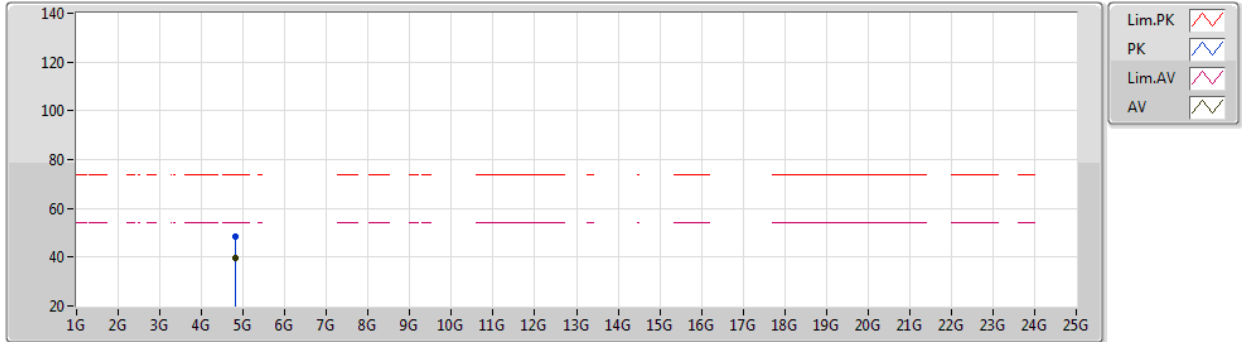
EUT\_Z\_1TX  
Setting 63  
03-F-C-5

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	2.3794G	56.42	74.00	-17.58	23.62	3	Horizontal	61	1.00	-	29.32	3.48	-
AV	2.376G	44.89	54.00	-9.11	12.11	3	Horizontal	61	1.00	-	29.30	3.48	-
PK	2.4022G	103.70	Inf	-Inf	70.80	3	Horizontal	61	1.00	-	29.40	3.50	-
AV	2.402G	102.72	Inf	-Inf	69.82	3	Horizontal	61	1.00	-	29.40	3.50	-

**BT-BR(1Mbps)**

25/01/2021

**2402MHz\_TX**



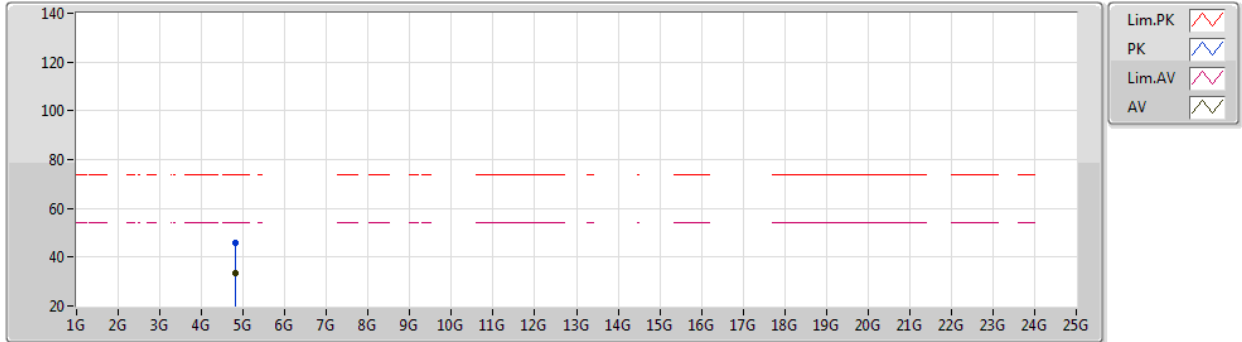
EUT Z\_1TX  
Setting 63  
03-F-C-5

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	4.80436G	48.33	74.00	-25.67	43.97	3	Vertical	342	1.00	-	33.43	6.21	35.28
AV	4.80406G	39.42	54.00	-14.58	35.07	3	Vertical	342	1.00	-	33.42	6.21	35.28

**BT-BR(1Mbps)**

25/01/2021

**2402MHz\_TX**



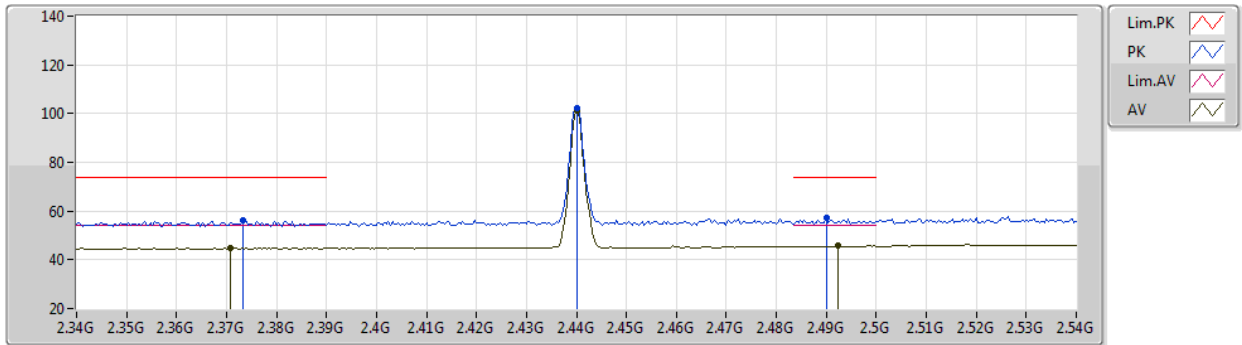
EUT Z\_1TX  
Setting 63  
03-F-C-5

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	4.80374G	46.01	74.00	-27.99	41.66	3	Horizontal	271	1.40	-	33.42	6.21	35.28
AV	4.80399G	33.65	54.00	-20.35	29.30	3	Horizontal	271	1.40	-	33.42	6.21	35.28

**BT-BR(1Mbps)**

25/01/2021

**2440MHz\_TX**



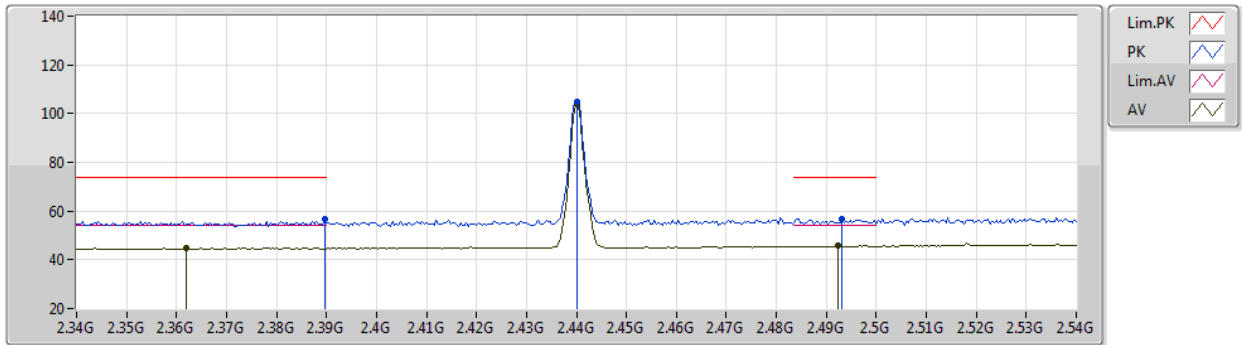
EUT Z\_1TX  
Setting 63  
03-F-C-5

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	2.3732G	56.07	74.00	-17.93	23.31	3	Vertical	360	1.04	-	29.29	3.47	-
AV	2.3708G	44.77	54.00	-9.23	12.02	3	Vertical	360	1.04	-	29.28	3.47	-
PK	2.44G	102.27	Inf	-Inf	69.25	3	Vertical	360	1.04	-	29.48	3.54	-
AV	2.44G	101.32	Inf	-Inf	68.30	3	Vertical	360	1.04	-	29.48	3.54	-
PK	2.49G	57.16	74.00	-16.84	23.51	3	Vertical	360	1.04	-	30.06	3.59	-
AV	2.4924G	45.77	54.00	-8.23	12.09	3	Vertical	360	1.04	-	30.09	3.59	-

BT-BR(1Mbps)

25/01/2021

2440MHz\_TX



EUT\_Z\_1TX  
Setting 63  
03-F-C-5

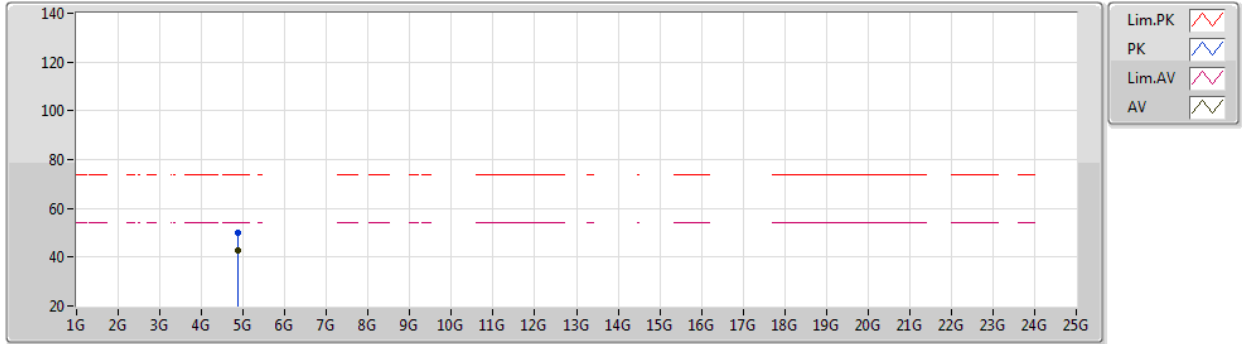
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3896G	56.47	74.00	-17.53	23.62	3	Horizontal	57	1.41	-	29.36	3.49	-
AV	2.362G	44.86	54.00	-9.14	12.15	3	Horizontal	57	1.41	-	29.25	3.46	-
PK	2.44G	104.84	Inf	-Inf	71.82	3	Horizontal	57	1.41	-	29.48	3.54	-
AV	2.44G	103.89	Inf	-Inf	70.87	3	Horizontal	57	1.41	-	29.48	3.54	-
PK	2.4932G	56.89	74.00	-17.11	23.20	3	Horizontal	57	1.41	-	30.10	3.59	-
AV	2.4924G	45.78	54.00	-8.22	12.10	3	Horizontal	57	1.41	-	30.09	3.59	-



**BT-BR(1Mbps)**

25/01/2021

**2440MHz\_TX**



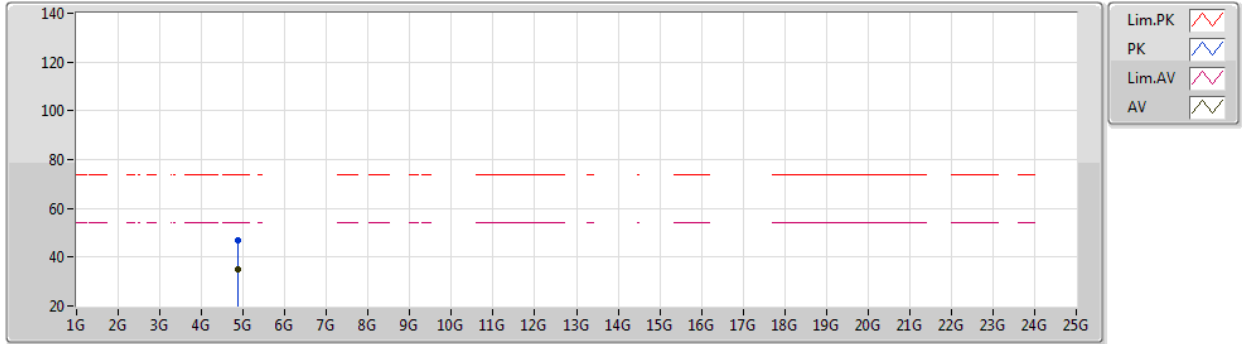
EUT Z\_1TX  
Setting 63  
03-F-C-5

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	4.87992G	50.09	74.00	-23.91	45.31	3	Vertical	344	1.04	-	33.82	6.32	35.36
AV	4.88007G	42.63	54.00	-11.37	37.85	3	Vertical	344	1.04	-	33.82	6.32	35.36

**BT-BR(1Mbps)**

25/01/2021

**2440MHz\_TX**



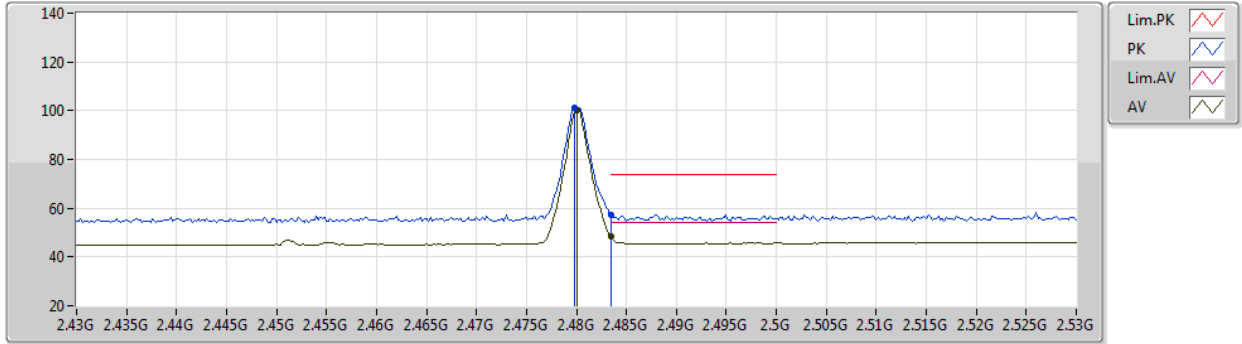
EUT Z\_1TX  
Setting 63  
03-F-C-5

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	4.88019G	46.73	74.00	-27.27	41.95	3	Horizontal	34	2.31	-	33.82	6.32	35.36
AV	4.88007G	34.99	54.00	-19.01	30.21	3	Horizontal	34	2.31	-	33.82	6.32	35.36

**BT-BR(1Mbps)**

25/01/2021

**2480MHz\_TX**



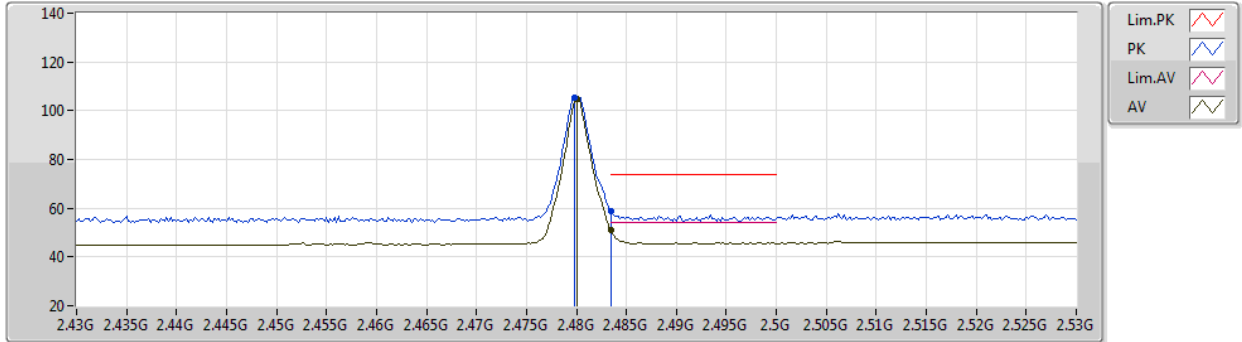
EUT Z\_1TX  
Setting 63  
03-F-C-5

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	101.09	Inf	-Inf	67.59	3	Vertical	0	2.00	-	29.92	3.58	-
AV	2.48G	100.17	Inf	-Inf	66.67	3	Vertical	0	2.00	-	29.92	3.58	-
PK	2.4835G	57.28	74.00	-16.72	23.73	3	Vertical	0	2.00	-	29.97	3.58	-
AV	2.4835G	48.30	54.00	-5.70	14.75	3	Vertical	0	2.00	-	29.97	3.58	-

**BT-BR(1Mbps)**

25/01/2021

**2480MHz\_TX**



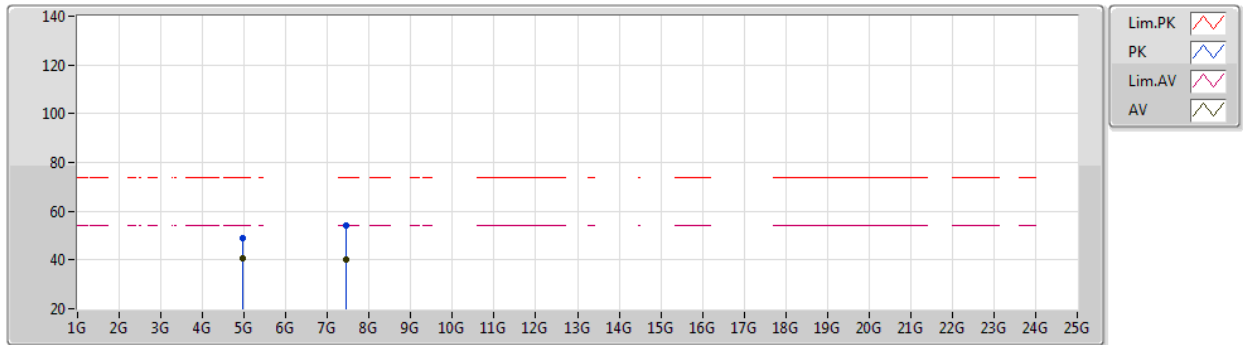
EUT\_Z\_1TX  
Setting 63  
03-F-C-5

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	105.55	Inf	-Inf	72.05	3	Horizontal	55	1.17	-	29.92	3.58	-
AV	2.48G	104.60	Inf	-Inf	71.10	3	Horizontal	55	1.17	-	29.92	3.58	-
PK	2.4835G	58.91	74.00	-15.09	25.36	3	Horizontal	55	1.17	-	29.97	3.58	-
AV	2.4835G	51.25	54.00	-2.75	17.70	3	Horizontal	55	1.17	-	29.97	3.58	-

**BT-BR(1Mbps)**

25/01/2021

**2480MHz\_TX**



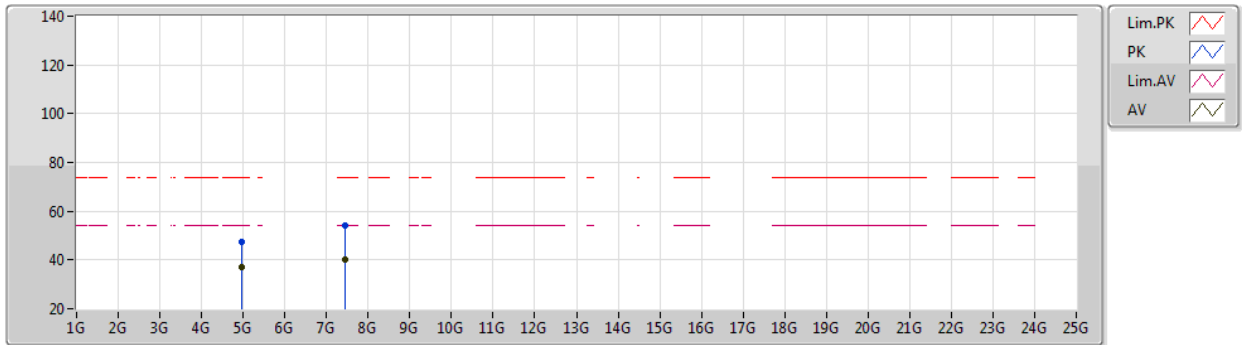
EUT\_Z\_1TX  
Setting 63  
03-F-C-5

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	4.95962G	49.01	74.00	-24.99	44.02	3	Vertical	344	1.14	-	34.00	6.44	35.45
AV	4.95998G	40.74	54.00	-13.26	35.75	3	Vertical	344	1.14	-	34.00	6.44	35.45
PK	7.44107G	53.96	74.00	-20.04	41.34	3	Vertical	359	1.63	-	40.05	8.00	35.43
AV	7.44056G	40.26	54.00	-13.74	27.65	3	Vertical	359	1.63	-	40.04	8.00	35.43

**BT-BR(1Mbps)**

25/01/2021

**2480MHz\_TX**



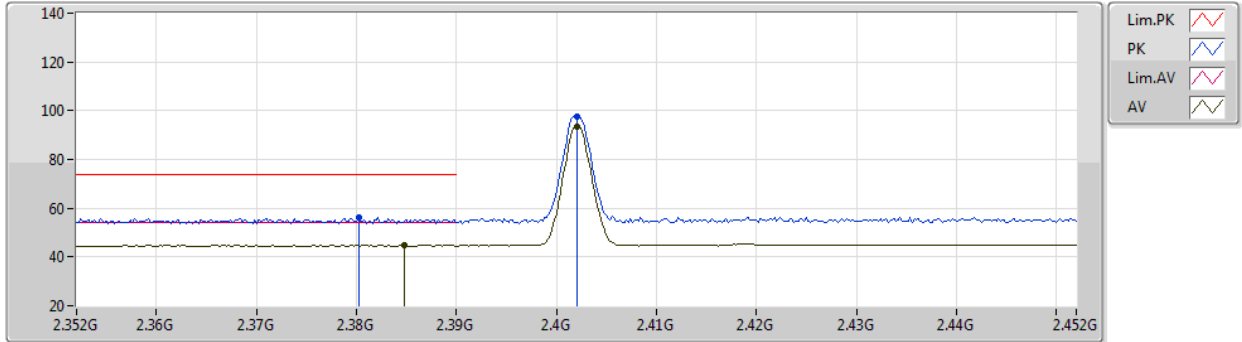
EUT\_Z\_1TX  
Setting 63  
03-F-C-5

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	4.96047G	47.20	74.00	-26.80	42.21	3	Horizontal	32	1.16	-	34.00	6.44	35.45
AV	4.96008G	36.83	54.00	-17.17	31.84	3	Horizontal	32	1.16	-	34.00	6.44	35.45
PK	7.44132G	54.08	74.00	-19.92	41.46	3	Horizontal	88	2.80	-	40.05	8.00	35.43
AV	7.44296G	40.30	54.00	-13.70	27.67	3	Horizontal	88	2.80	-	40.06	8.00	35.43

BT-EDR(3Mbps)

25/01/2021

2402MHz\_TX



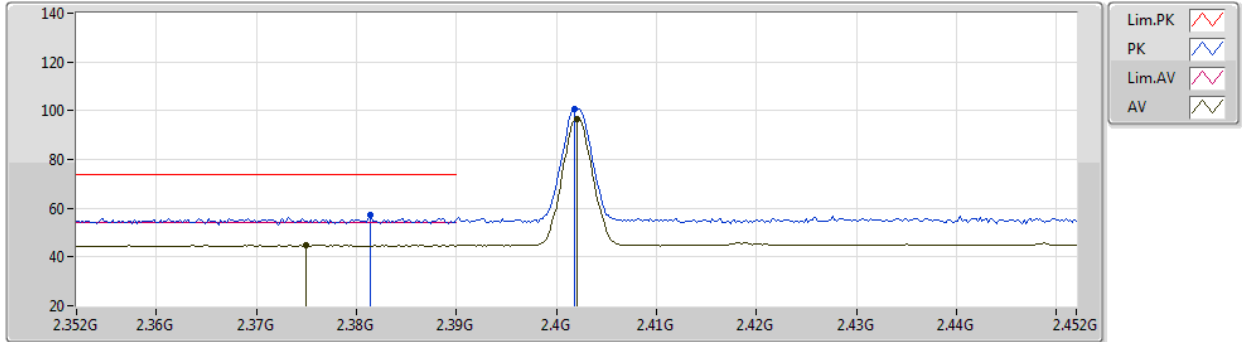
EUT\_Z\_1TX  
Setting 63  
03-F-C-5

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	2.3802G	56.28	74.00	-17.72	23.48	3	Vertical	360	1.26	-	29.32	3.48	-
AV	2.3848G	44.77	54.00	-9.23	11.95	3	Vertical	360	1.26	-	29.34	3.48	-
PK	2.402G	97.68	Inf	-Inf	64.78	3	Vertical	360	1.26	-	29.40	3.50	-
AV	2.402G	93.51	Inf	-Inf	60.61	3	Vertical	360	1.26	-	29.40	3.50	-

**BT-EDR(3Mbps)**

25/01/2021

**2402MHz\_TX**



EUT Z\_1TX  
Setting 63  
03-F-C-5

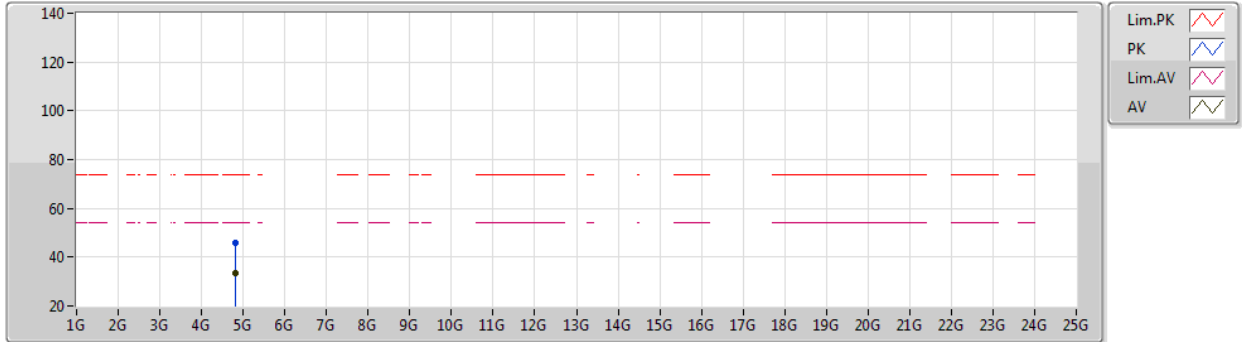
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3814G	57.05	74.00	-16.95	24.24	3	Horizontal	60	1.03	-	29.33	3.48	-
AV	2.375G	44.82	54.00	-9.18	12.04	3	Horizontal	60	1.03	-	29.30	3.48	-
PK	2.4018G	100.66	Inf	-Inf	67.76	3	Horizontal	60	1.03	-	29.40	3.50	-
AV	2.402G	96.47	Inf	-Inf	63.57	3	Horizontal	60	1.03	-	29.40	3.50	-



**BT-EDR(3Mbps)**

25/01/2021

**2402MHz\_TX**



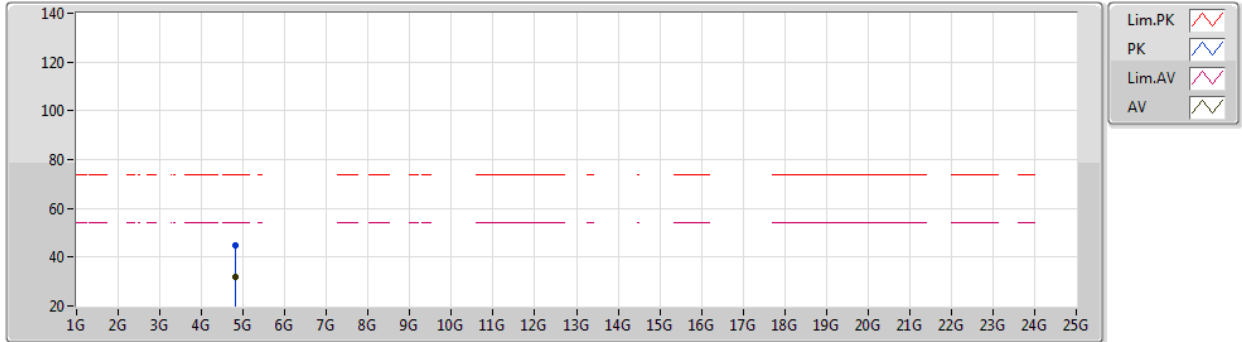
EUT Z\_1TX  
Setting 63  
03-F-C-5

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	4.80415G	46.04	74.00	-27.96	41.69	3	Vertical	346	1.00	-	33.42	6.21	35.28
AV	4.80379G	33.46	54.00	-20.54	29.11	3	Vertical	346	1.00	-	33.42	6.21	35.28

**BT-EDR(3Mbps)**

25/01/2021

**2402MHz\_TX**



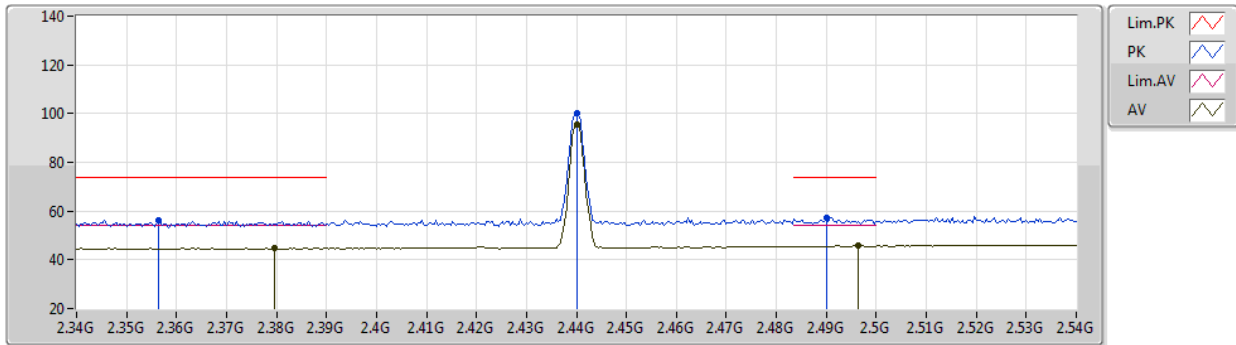
EUT Z\_1TX  
Setting 63  
03-F-C-5

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	4.80641G	44.96	74.00	-29.04	40.59	3	Horizontal	261	2.29	-	33.44	6.21	35.28
AV	4.80382G	31.94	54.00	-22.06	27.59	3	Horizontal	261	2.29	-	33.42	6.21	35.28

BT-EDR(3Mbps)

25/01/2021

2440MHz\_TX



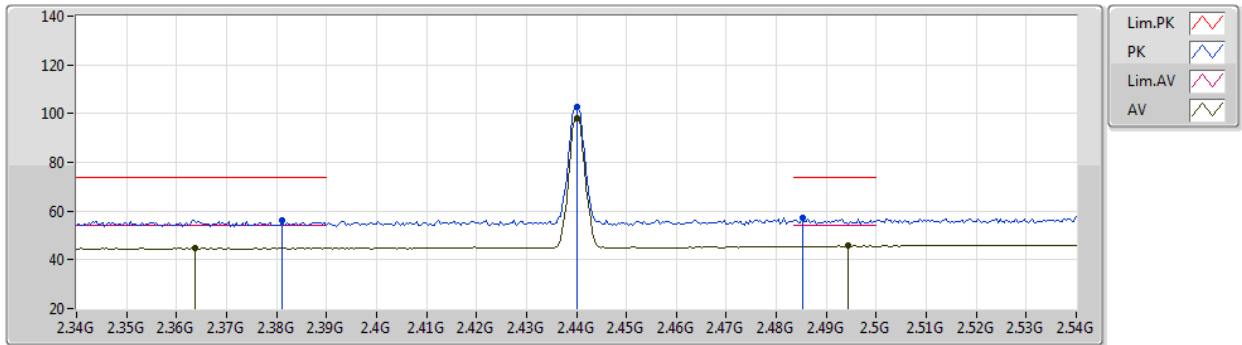
EUT Z\_1TX  
Setting 63  
03-F-C-5

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	2.3564G	56.06	74.00	-17.94	23.37	3	Vertical	0	1.05	-	29.23	3.46	-
AV	2.3796G	44.74	54.00	-9.26	11.94	3	Vertical	0	1.05	-	29.32	3.48	-
PK	2.44G	99.93	Inf	-Inf	66.91	3	Vertical	0	1.05	-	29.48	3.54	-
AV	2.44G	95.75	Inf	-Inf	62.73	3	Vertical	0	1.05	-	29.48	3.54	-
PK	2.49G	57.24	74.00	-16.76	23.59	3	Vertical	0	1.05	-	30.06	3.59	-
AV	2.4964G	45.73	54.00	-8.27	11.98	3	Vertical	0	1.05	-	30.15	3.60	-

**BT-EDR(3Mbps)**

25/01/2021

**2440MHz\_TX**



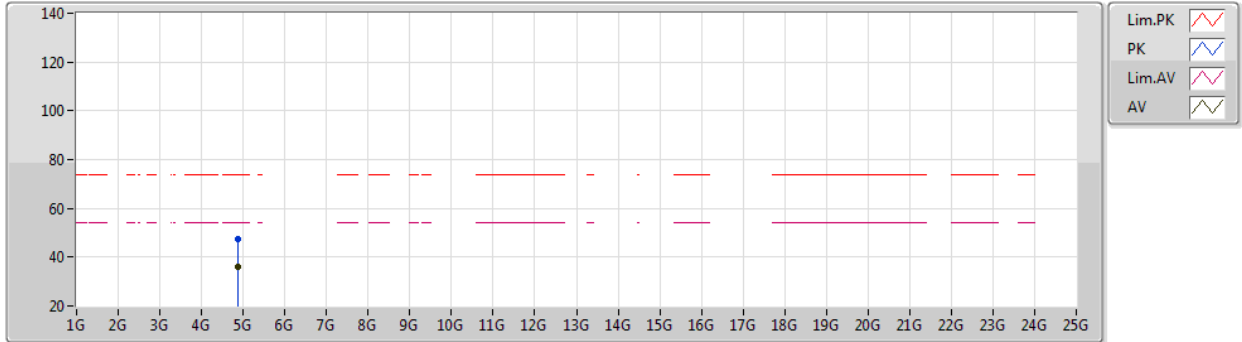
EUT\_Z\_1TX  
Setting 63  
03-F-C-5

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	56.25	74.00	-17.75	23.45	3	Horizontal	56	1.42	-	29.32	3.48	-
AV	2.3636G	44.75	54.00	-9.25	12.04	3	Horizontal	56	1.42	-	29.25	3.46	-
PK	2.44G	102.53	Inf	-Inf	69.51	3	Horizontal	56	1.42	-	29.48	3.54	-
AV	2.44G	98.34	Inf	-Inf	65.32	3	Horizontal	56	1.42	-	29.48	3.54	-
PK	2.4852G	57.47	74.00	-16.53	23.89	3	Horizontal	56	1.42	-	29.99	3.59	-
AV	2.4944G	45.73	54.00	-8.27	12.02	3	Horizontal	56	1.42	-	30.12	3.59	-

**BT-EDR(3Mbps)**

25/01/2021

**2440MHz\_TX**



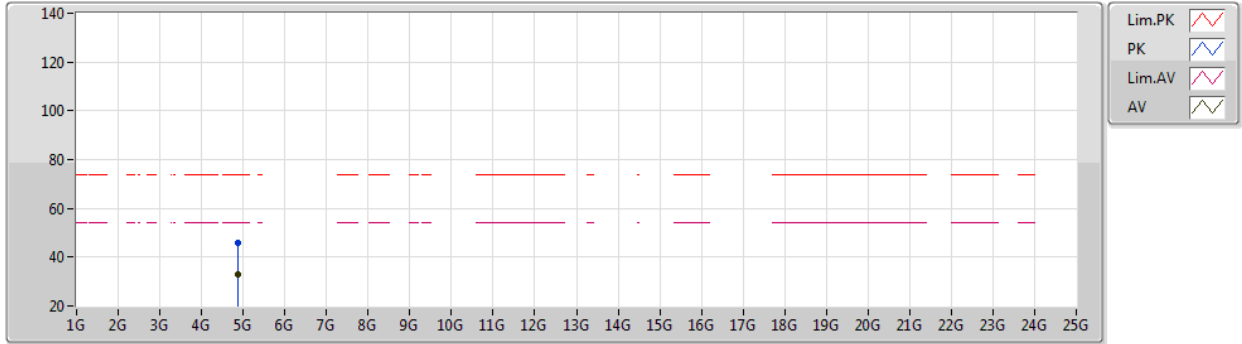
EUT Z\_1TX  
Setting 63  
03-F-C-5

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	4.87976G	47.32	74.00	-26.68	42.54	3	Vertical	345	1.03	-	33.82	6.32	35.36
AV	4.88014G	36.11	54.00	-17.89	31.33	3	Vertical	345	1.03	-	33.82	6.32	35.36

**BT-EDR(3Mbps)**

25/01/2021

**2440MHz\_TX**



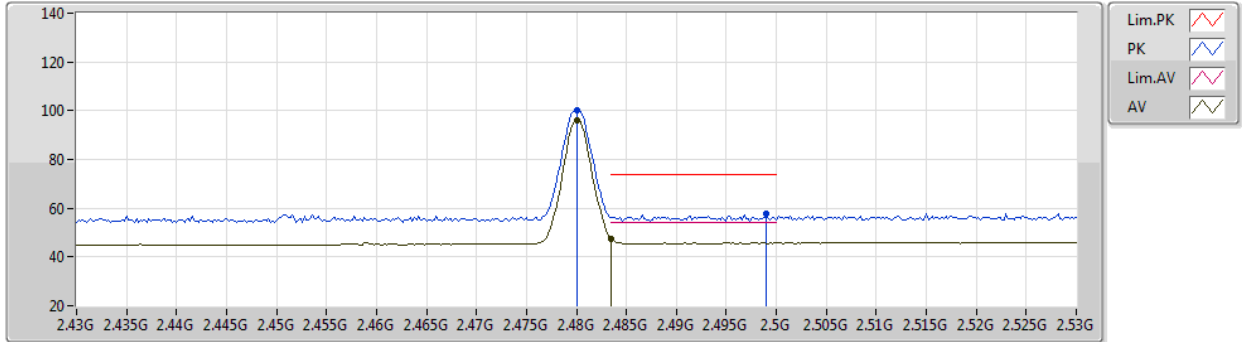
EUT Z\_1TX  
Setting 63  
03-F-C-5

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	4.8778G	45.89	74.00	-28.11	41.12	3	Horizontal	34	1.27	-	33.81	6.32	35.36
AV	4.87984G	32.91	54.00	-21.09	28.13	3	Horizontal	34	1.27	-	33.82	6.32	35.36

**BT-EDR(3Mbps)**

25/01/2021

**2480MHz\_TX**



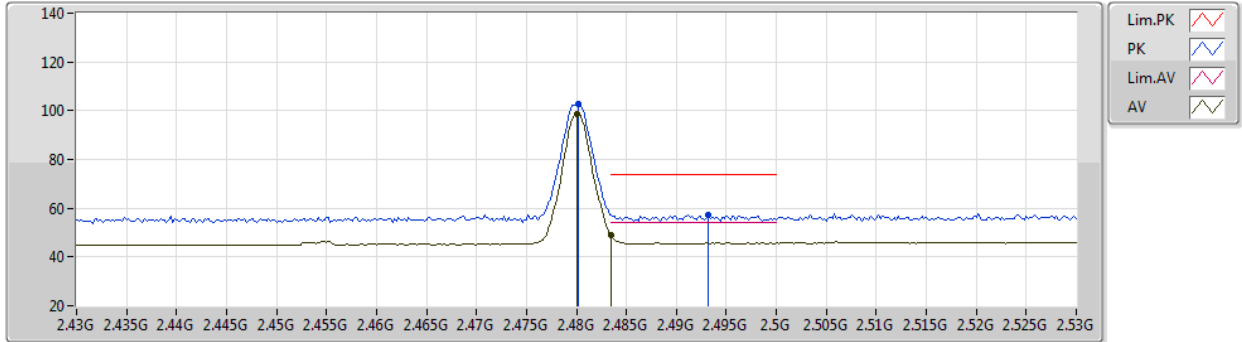
EUT Z\_1TX  
Setting 63  
03-F-C-5

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	99.99	Inf	-Inf	66.49	3	Vertical	357	1.58	-	29.92	3.58	-
AV	2.48G	95.95	Inf	-Inf	62.45	3	Vertical	357	1.58	-	29.92	3.58	-
PK	2.499G	57.58	74.00	-16.42	23.79	3	Vertical	357	1.58	-	30.19	3.60	-
AV	2.4835G	47.61	54.00	-6.39	14.06	3	Vertical	357	1.58	-	29.97	3.58	-

**BT-EDR(3Mbps)**

25/01/2021

**2480MHz\_TX**



EUT\_Z\_1TX  
Setting 63  
03-F-C-5

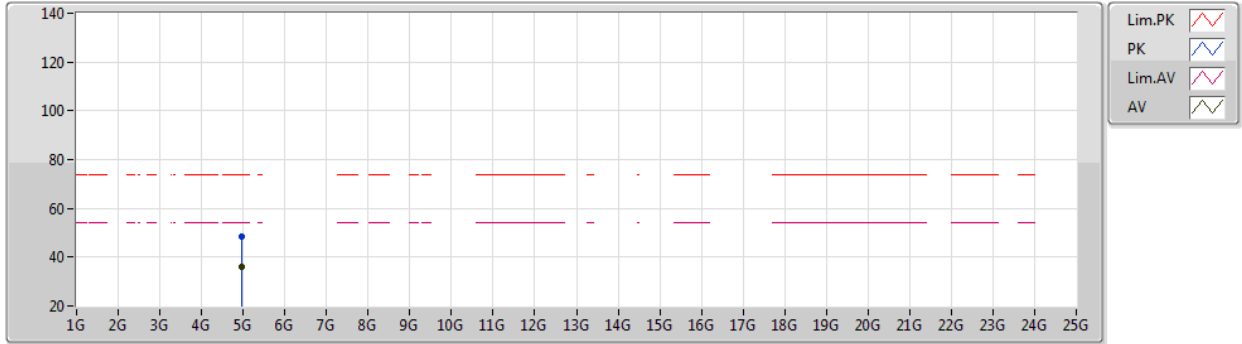
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4802G	102.55	Inf	-Inf	69.05	3	Horizontal	56	1.20	-	29.92	3.58	-
AV	2.48G	98.43	Inf	-Inf	64.93	3	Horizontal	56	1.20	-	29.92	3.58	-
PK	2.4932G	57.37	74.00	-16.63	23.68	3	Horizontal	56	1.20	-	30.10	3.59	-
AV	2.4835G	49.03	54.00	-4.97	15.48	3	Horizontal	56	1.20	-	29.97	3.58	-



**BT-EDR(3Mbps)**

25/01/2021

**2480MHz\_TX**



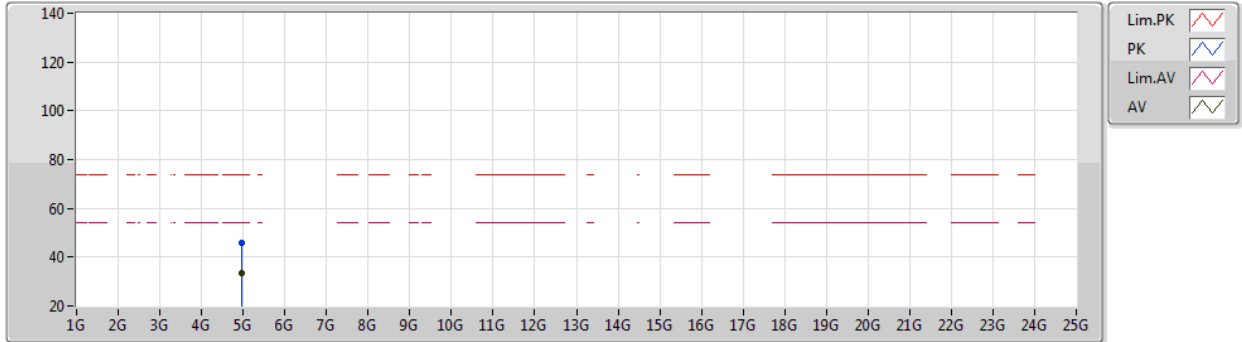
EUT Z\_1TX  
Setting 63  
03-F-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.96003G	48.28	74.00	-25.72	43.29	3	Vertical	344	1.26	-	34.00	6.44	35.45
AV	4.95997G	36.14	54.00	-17.86	31.15	3	Vertical	344	1.26	-	34.00	6.44	35.45

**BT-EDR(3Mbps)**

25/01/2021

**2480MHz\_TX**



EUT Z\_1TX  
Setting 63  
03-F-C-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	4.96034G	46.11	74.00	-27.89	41.12	3	Horizontal	34	2.53	-	34.00	6.44	35.45
AV	4.95989G	33.55	54.00	-20.45	28.56	3	Horizontal	34	2.53	-	34.00	6.44	35.45