

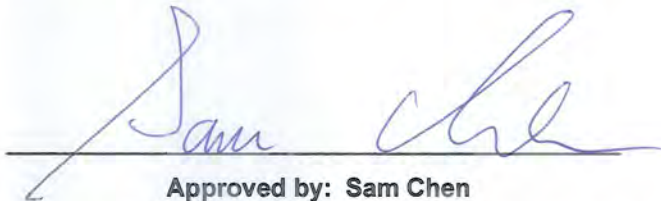


# FCC RADIO TEST REPORT

**FCC ID** : 2AWNEKDE20102  
**Equipment** : Home Entertainment Hub  
**Brand Name** : E1 by Ericsson  
**Model Name** : KDE20102  
**Applicant** : Ericsson AB  
21-23 Torshamnsgatan Stockholm, 16480 Sweden  
**Manufacturer** : CyberTAN Technology Inc.  
No. 99, Park Avenue III Science-based Industrial Park  
Hsinchu Taiwan 308  
**Standard** : 47 CFR FCC Part 15.247

The product was received on Mar. 27, 2020, and testing was started from Apr. 07, 2020 and completed on May 22, 2020. 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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**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:**

1. The test configuration, test mode and test software were written in this test report are declared by the manufacturer.
2. 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: **Cindy Peng**



# 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

For WLAN 2.4GHz / WLAN 5GHz / Bluetooth / Zigbee function:

Ant.	Port		Brand	Model Name	Type	Connector	Gain (dBi)	
	WLAN 2.4GHz	WLAN 5GHz B1					WLAN 2.4GHz	WLAN 5GHz B1
1	1	1	Airgain	N2420DSRD	PCB	I-PEX	2.2	3.1
2	2	2	Airgain	N2420DSRF	PCB	I-PEX	2.7	3.3
Ant.	Port		Brand	Model Name	Type	Connector	Gain (dBi)	
	WLAN 5GHz B4	Zigbee					WLAN 5GHz B4	Zigbee
3	1	1	Airgain	N2420DSRC	PCB	I-PEX	3.1	2.8
Ant.	Port		Brand	Model Name	Type	Connector	Gain (dBi)	
	WLAN 5GHz B4	Bluetooth					WLAN 5GHz B4	Bluetooth
4	2	1	Airgain	N2420DSRE	PCB	I-PEX	3.1	2.7

- Note1: B1 means band 1, B4 means band 4.
- Note2: The above information was declared by manufacturer.
- Note3: For WLAN 2.4GHz function (2TX/2RX):  
The WLAN 2.4GHz supports the b, g, n, VHT.  
Port 1 and Port 2 could transmit/receive simultaneously.
- Note4: For WLAN 5GHz Band 1 function (2TX/2RX):  
The WLAN 5GHz Band 1 supports the a, n, ac.  
Port 1 and Port 2 could transmit/receive simultaneously.
- Note5: For WLAN 5GHz Band 4 function (2TX/2RX):  
The WLAN 5GHz Band 4 supports the a, n, ac.  
Port 1 and Port 2 could transmit/receive simultaneously.
- Note6: For Zigbee function (1TX/1RX):  
Only Port 1 can be used as transmitting/receiving.
- Note7: For Bluetooth function (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)	0.474	3.24	2.899m	1k
BT-EDR (2Mbps)	0.498	3.03	2.906m	1k
BT-EDR (3Mbps)	0.499	3.02	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	Blue Test3

### 1.1.5 Table of WWAN Module

The EUT contains a LTE module, the detail information as following.

Brand Name	Model Name	FCC ID	Function
Telit	LN960A16	RI7LN960A16	LTE: Band 2/4/5/7/12/13/14/17/25/26/30/38/41/66

### 1.1.6 Table for EUT Supports Functions

Function	Support Type
AP	Master
Mesh	Master
Bridge	Slave without radar detection

Note: The "AP mode" has been selected to test and recorded in the test report 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, Lane 724, Bo-ai St., Jhubei 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	Test Date
RF Conducted	TH03-CB	Owen Hsu	23.5~25.5°C / 53~55%	Apr. 10, 2020~May 08, 2020
Radiated Below 1GHz (Mode 1~Mode 3)	03CH06-CB	JN Du	22.7~23.5°C / 53~57%	Apr. 13, 2020~May 22, 2020
Radiated Below 1GHz (Mode 4~Mode 6)	03CH06-CB	Eason Chen	22.7~23.5°C / 53~57%	Apr. 09, 2020~May 14, 2020
Radiated Above 1GHz	03CH03-CB, 03CH04-CB	Eason Chen	22.7~23.5°C / 53~57%	Apr. 09, 2020~May 14, 2020
AC Conduction	CO01-CB	Ryo Fan	21~22°C / 60~63%	Apr. 07, 2020

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 (30MHz ~ 1,000MHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	5.1 dB	Confidence levels of 95%
Conducted Emission	2.4 dB	Confidence levels of 95%
Output Power Measurement	1.5 dB	Confidence levels of 95%
Bandwidth Measurement	2%	Confidence levels of 95%



## 2 Test Configuration of EUT

### 2.1 Test Channel Mode

Mode	Power Setting
BT-BR(1Mbps)	-
2402MHz	63
2440MHz	52
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	AP mode with LTE Link: Band 2 – EUT + Adapter 1 + Power cable
2	AP mode with LTE Link: Band 4 – EUT + Adapter 2 + Power cable
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
1	WLAN 2.4GHz + Adapter 1
2	WLAN 5GHz Band 1 + Adapter 1
3	WLAN 5GHz Band 4 + Adapter 1
4	Bluetooth + Adapter 1
5	Zigbee + Adapter 1
Mode 4 has been evaluated to be the worst case among Mode 1~5, thus measurement for Mode 6 will follow this same test mode.	
6	Bluetooth + Adapter 2
For operating mode 6 is the worst case and it was record in this test report.	
<b>Operating Mode &gt; 1GHz</b>	CTX



The Worst Case Mode for Following Conformance Tests	
<b>Tests Item</b>	Simultaneous Transmission Analysis - Radiated Emission Co-location
<b>Test Condition</b>	Radiated measurement
<b>Operating Mode</b>	Normal Link
The Operating Mode of Radiated Emission Co-location as below: 1. WLAN 2.4GHz + WLAN 5GHz Band 1 2. WLAN 5GHz Band 4 + Bluetooth 3. WLAN 5GHz Band 4 + Zigbee After evaluating, the full function generated the worst case, thus the measurement will follow this same test configuration.	
1	WLAN 2.4GHz + WLAN 5GHz Band 1 + WLAN 5GHz Band 4 + Bluetooth + Zigbee
Refer to Appendix G for Radiated Emission Co-location.	

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 Band 1 + WLAN 5GHz Band 4 + Bluetooth + Zigbee + LTE
Refer to Sporton Test Report No.: FA031609 for Co-location RF Exposure Evaluation.	

Note: The EUT can only be used Z axis.

### 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

Accessories					
No.	Equipment Name	Brand Name	Model Name	Rating	Remark
1	Adapter 1	FSP	FSP100-A1AR3	INPUT: 100-240V~50-60Hz, 1.4A OUTPUT: 5V, 3A / 9V, 3A 12V, 3A / 15V, 3A 20V, 5.0A 100W MAX.	With the cable: Non-shielded, 1.6m
2	Adapter 2	DELTA	ADH-100CR B	INPUT: 100-240V~1.8A, 50-60Hz OUTPUT: 5.0V, 3.0A, 15.0W or 9.0V, 3.0A 15.0V, 3.0A or 20.0V, 5.0A 100.0W.	With the cable: Non-shielded, 1.6m
Others					
3	HDMI cable*1: Shielded, 1.5m				
4	USB-C to USB-A cable*1: Shielded, 0.1m				
5	Power cable*1: Non-shielded, 1m				



## 2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	TV	ASUS	VP28U	N/A
B	Micro SD card	Transcend	TS16GUSDHC10	N/A
C	SIM card	N/A	N/A	N/A
D	LAN NB	DELL	E6430	N/A
E	WAN NB	DELL	E6430	N/A
F	2.4G NB	DELL	E6430	N/A
G	5G-1 NB	DELL	E6430	N/A
H	5G-2 NB	DELL	E6430	N/A
I	Bluetooth speaker	Wei Xuan	S06B	N/A
J	Zigbee device	N/A	N/A	N/A
K	LTE base station	Anritsu	MT8820C	N/A
L	Air mouse	HENGCHUANGYU	HCY-57B	2AOBUHCY-57B

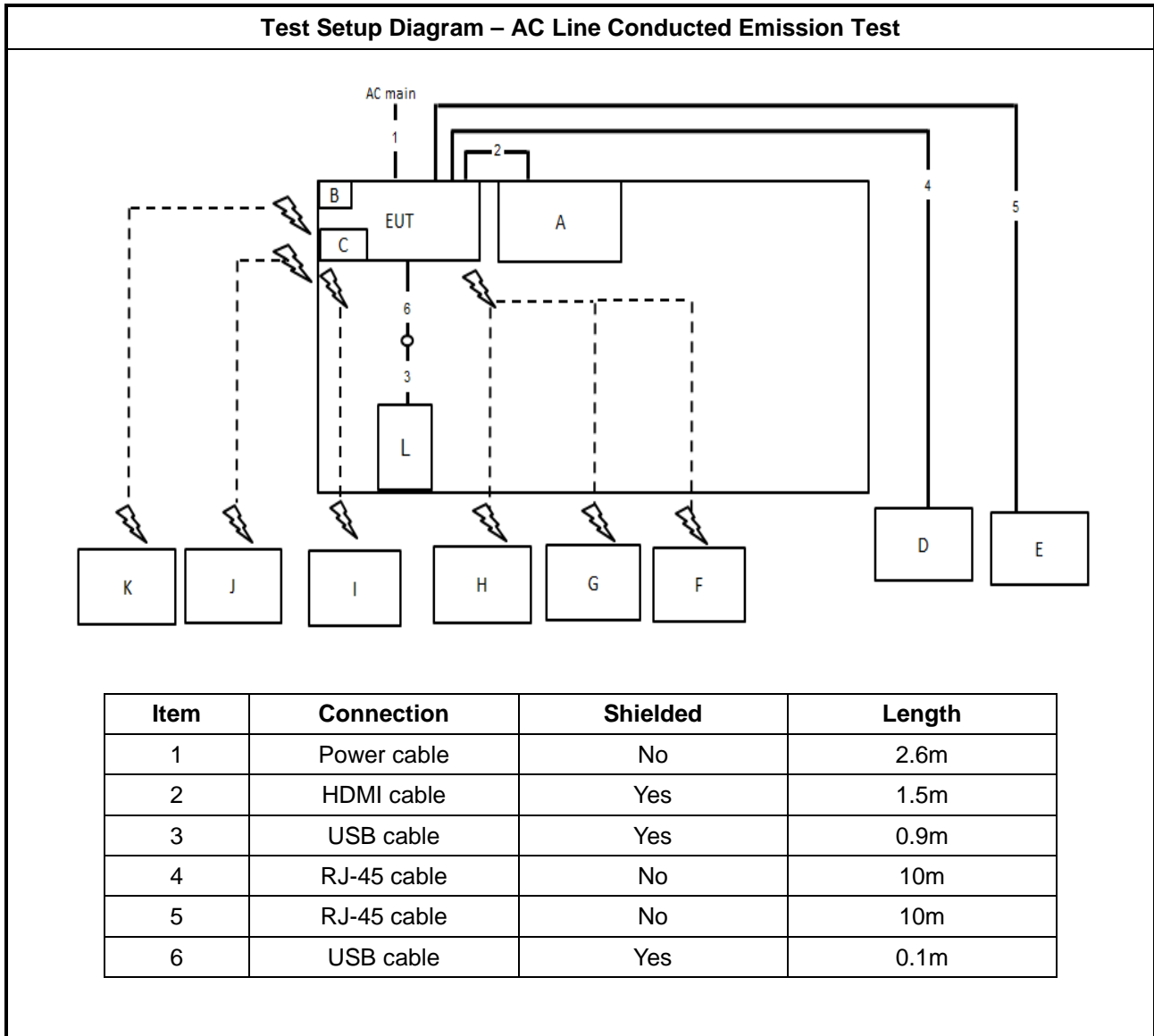
For Radiated:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	LCD Monitor	DELL	1704FPTt	N/A
B	USB Hub	IOTNPCI	HB-16	N/A
C	Keyboard	iCooky	SK068	N/A
D	Mouse	Logitech	M-U0026	N/A

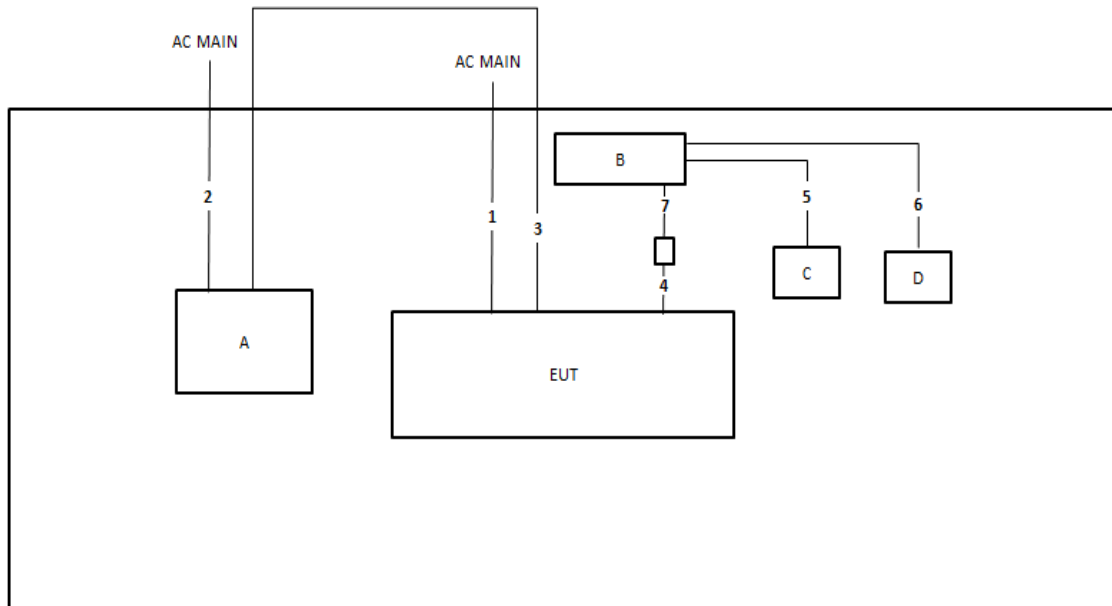
For RF Conducted:

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**



Item	Connection	Shielded	Length
1	Power cable	No	2.6m
2	Power cable	No	1.5m
3	HDMI cable	Yes	1.5m
4	USB cable	Yes	0.1m
5	USB cable	Yes	1.8m
6	USB cable	Yes	1.8m
7	USB cable	Yes	0.9m





### 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.

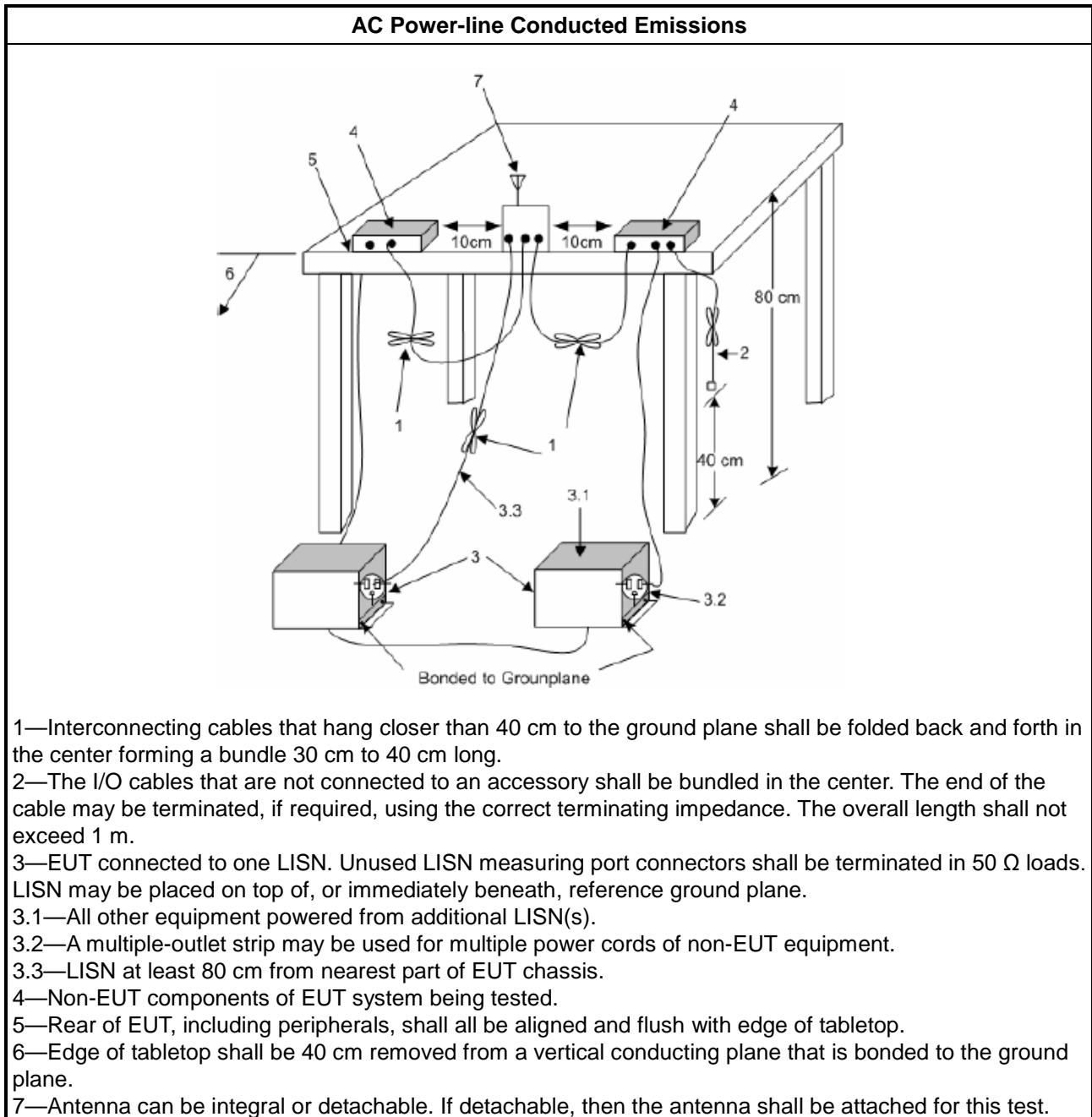
##### 3.1.2 Measuring Instruments

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



### 3.1.5 Measurement Results Calculation

The measured Level is calculated using:

- a. Corrected Reading (dBuV) = LISN Factor + Cable Loss + Read Level = Level
- b. Margin = - Limit + (Read Level + LISN Factor + Cable Loss)

### 3.1.6 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 $ChS \geq MAX$ (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	

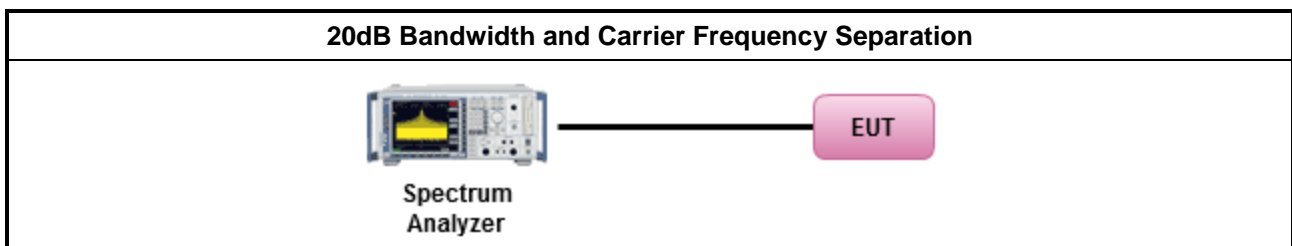
#### 3.2.2 Measuring Instruments

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	
<ul style="list-style-type: none"> <li>902-928 MHz Band:</li> </ul>	
	<ul style="list-style-type: none"> <li>N ≥ 50; Power 30dBm; EIRP 36dBm</li> </ul>
	<ul style="list-style-type: none"> <li>50 &gt; N ≥ 25; Power 24dBm; EIRP 30dBm</li> </ul>
<ul style="list-style-type: none"> <li>2400-2483.5 MHz Band:</li> </ul>	
	<ul style="list-style-type: none"> <li>N ≥ 75; Power 30dBm; EIRP 36dBm</li> </ul>
	<ul style="list-style-type: none"> <li>75 &gt; N ≥ 15; Power 21dBm; EIRP 27dBm</li> </ul>
<ul style="list-style-type: none"> <li>5725-5850 MHz Band:</li> </ul>	
	<ul style="list-style-type: none"> <li>N ≥ 75; Power 30dBm; EIRP 36dBm</li> </ul>
N: Number of Hopping Frequencies	

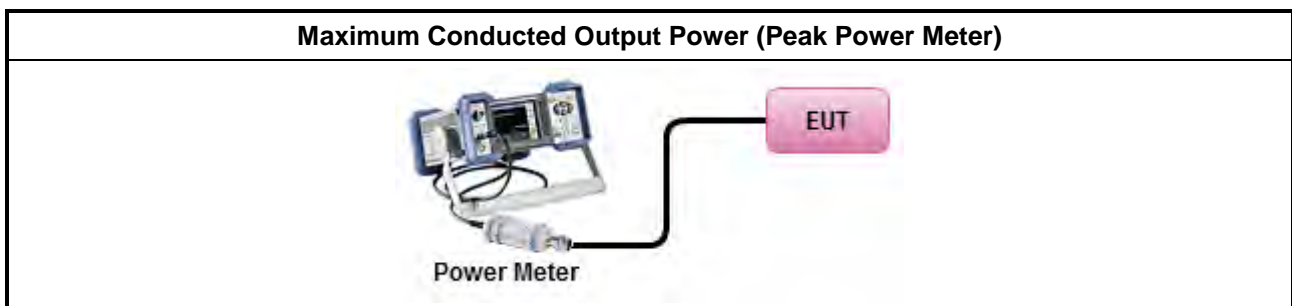
#### 3.3.2 Measuring Instruments

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

#### 3.3.3 Test Procedures

Test Method
<ul style="list-style-type: none"> <li>Refer as ANSI C63.10-2013, clause 7.8.5 for output power measurement.</li> </ul>

#### 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

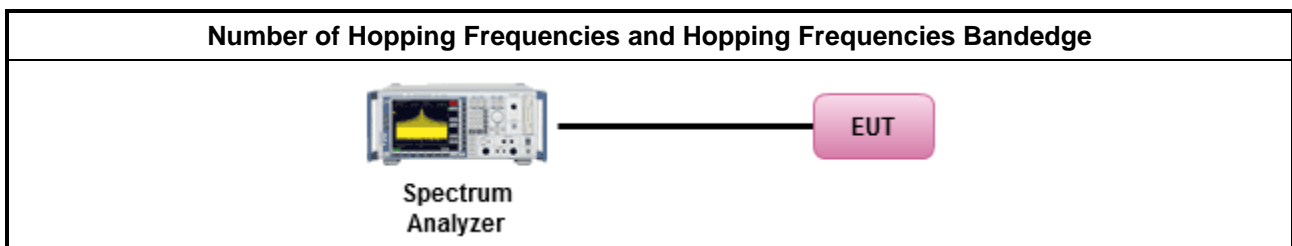
#### 3.4.3 Measuring Instruments

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	
<ul style="list-style-type: none"> <li>902-928 MHz Band:</li> </ul>	
	<ul style="list-style-type: none"> <li>N ≥ 50; 0.4s in 20s period</li> </ul>
	<ul style="list-style-type: none"> <li>50 &gt; N ≥ 25; 0.4s in 10s period</li> </ul>
<ul style="list-style-type: none"> <li>2400-2483.5 MHz Band:</li> </ul>	
	<ul style="list-style-type: none"> <li>N ≥ 75; 0.4s in N x 0.4 period</li> </ul>
	<ul style="list-style-type: none"> <li>75 &gt; N ≥ 15; 0.4s in N x 0.4 period</li> </ul>
<ul style="list-style-type: none"> <li>5725-5850 MHz Band:</li> </ul>	
	<ul style="list-style-type: none"> <li>N ≥ 75; 0.4s in 30s period</li> </ul>
N: Number of Hopping Frequencies	

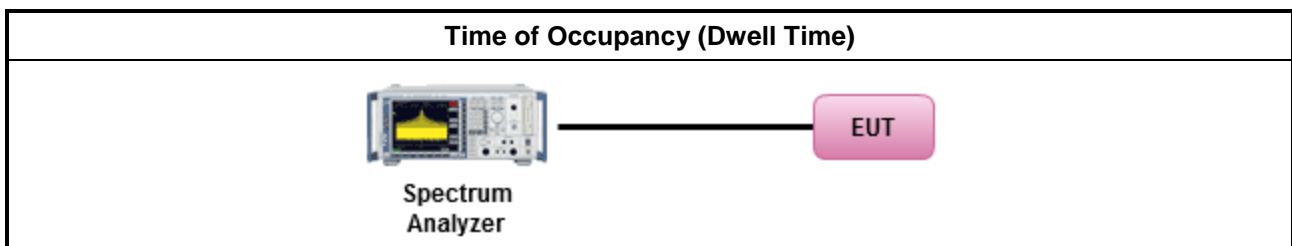
#### 3.5.2 Measuring Instruments

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

#### 3.5.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> <li>Refer as ANSI C63.10-2013, clause 7.8.4 for dwell time measurement.</li> </ul>	
<ul style="list-style-type: none"> <li>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.</li> </ul>	
	<ul style="list-style-type: none"> <li>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 <math>1600 / 79 / 6 = 3.37</math> hops per second in each channel.</li> </ul>

#### 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.	

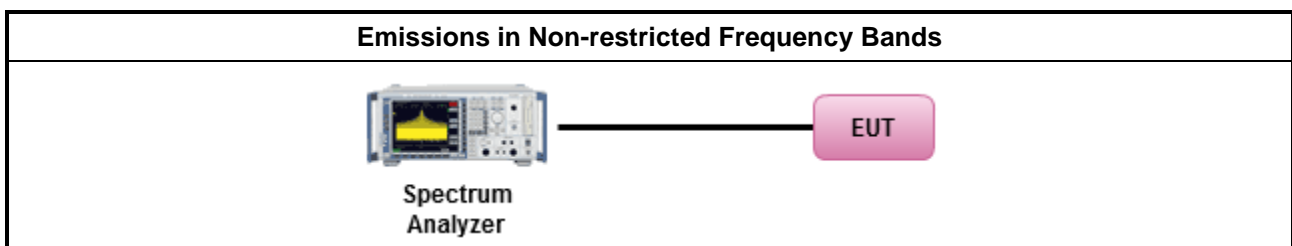
#### 3.6.2 Measuring Instruments

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

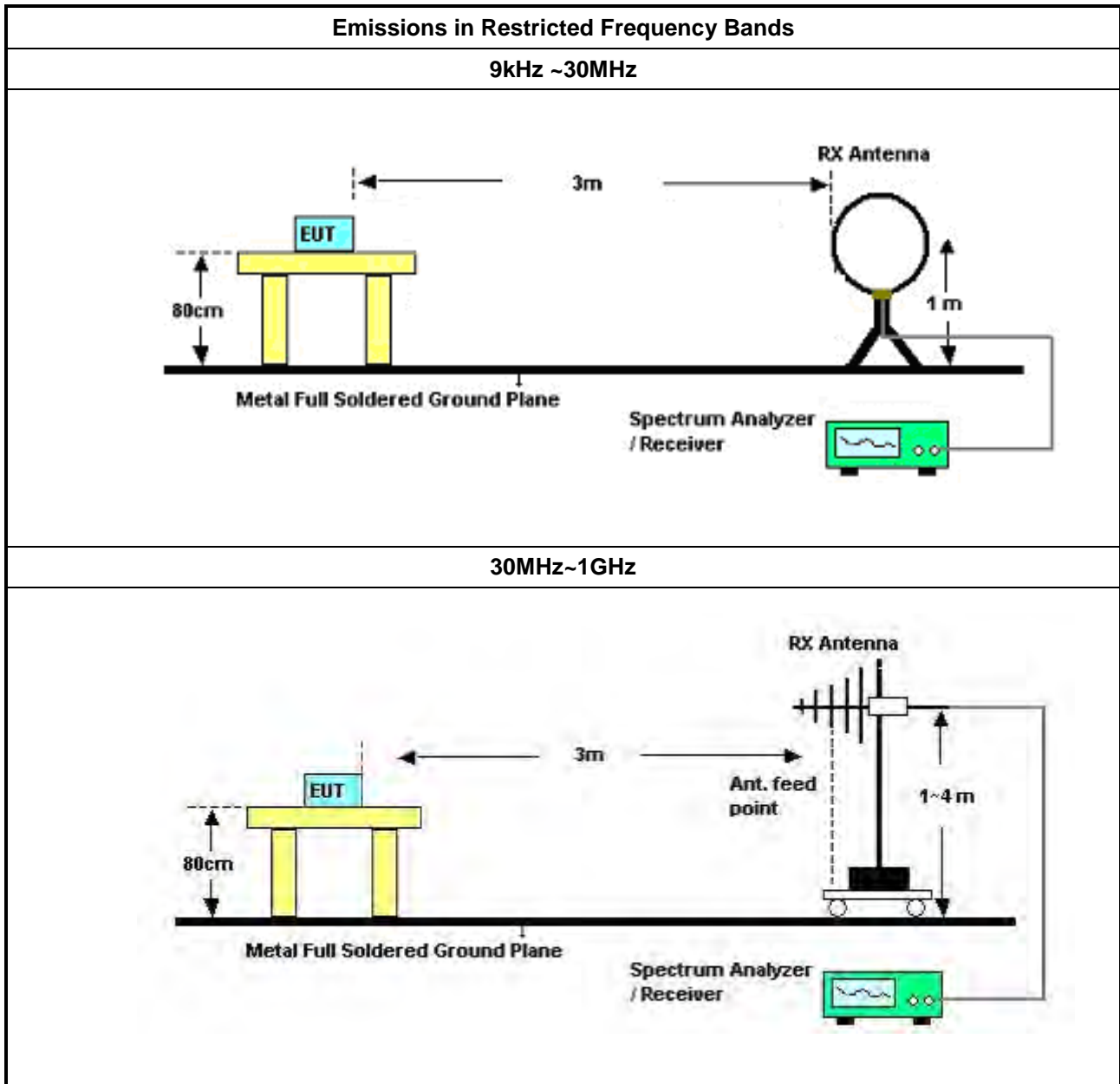
Refer a test equipment and calibration data table in this test report.

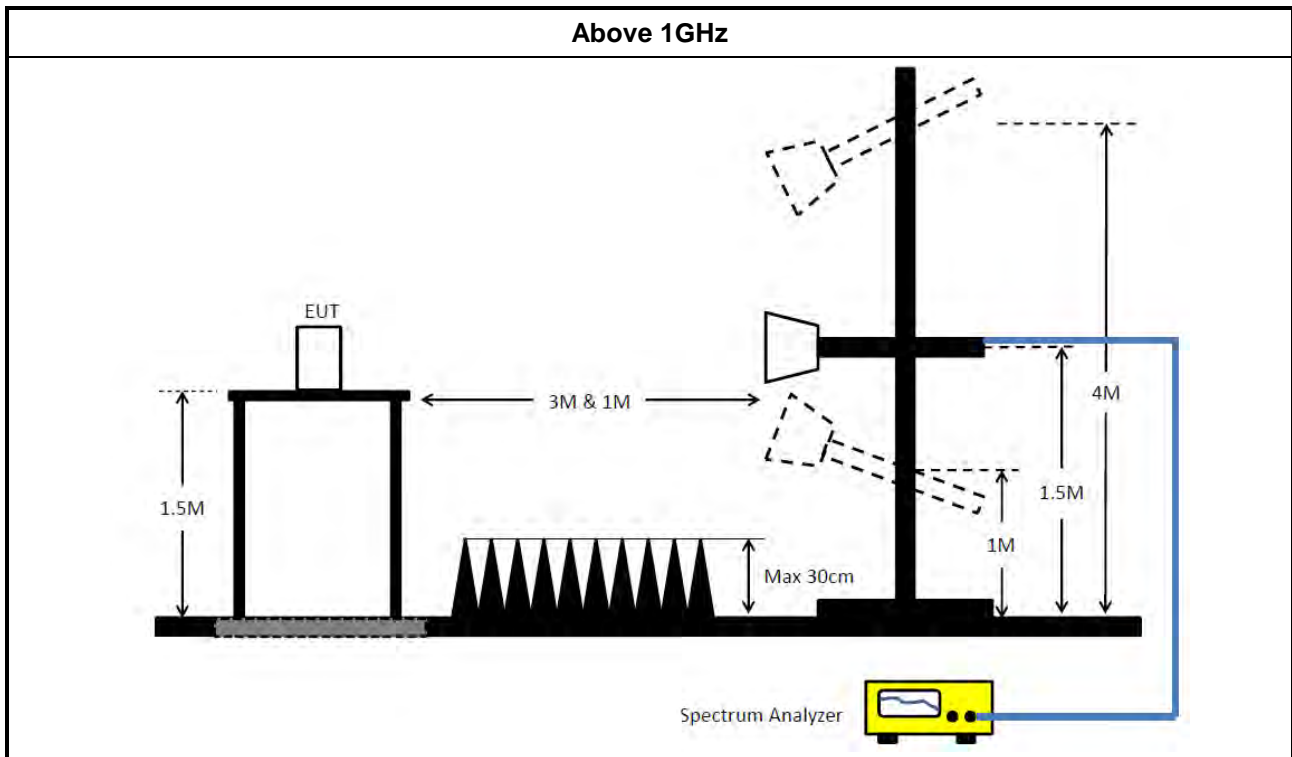
#### 3.7.3 Test Procedures

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 1425 1912"> <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 + Cable Loss + Read Level - Preamp Factor (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 10 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	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.45GHz	Feb. 26, 2020	Feb. 25, 2021	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Dec. 25, 2019	Dec. 24, 2020	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 21, 2019	May 20, 2020	Conduction (CO01-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6120	31244	9kHz - 30 MHz	Mar. 16, 2020	Mar. 15, 2021	Radiation (03CH06-CB)
Bilog Antenna with 6 dB attenuator	TESEQ & EMCI	CBL6112D & N-6-06	37878 & AT-N0606	20MHz ~ 2GHz	Aug. 03, 2019	Aug. 02, 2020	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	310N	187290	0.1MHz ~ 1GHz	May 07, 2019	May 06, 2020	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	310N	187290	0.1MHz ~ 1GHz	Apr. 28, 2020	Apr. 27, 2021	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSP40	100080	9kHz~40GHz	Oct. 21, 2019	Oct. 20, 2020	Radiation (03CH06-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	May 15, 2019	May 14, 2020	Radiation (03CH06-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	May 13, 2020	May 12, 2021	Radiation (03CH06-CB)
RF Cable-low	HUBER+SUHNER	RG402	Low Cable-05+24	30MHz~1GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH06-CB)
Horn Antenna	ETS · Lindgren	3115	6821	750MHz~18GHz	Jan. 20, 2020	Jan. 19, 2021	Radiation (03CH03-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jun. 27, 2019	Jun. 26, 2020	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8449B	3008A02097	1GHz ~ 26.5GHz	Dec. 19, 2019	Dec. 18, 2020	Radiation (03CH03-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 03, 2019	Jul. 02, 2020	Radiation (03CH03-CB)
Spectrum Analyzer	R&S	FSP40	100019	9kHz ~ 40GHz	Jun. 19, 2019	Jun. 18, 2020	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-20+27	1GHz ~ 18GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-27	1GHz ~ 18GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH03-CB)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH03-CB)
Horn Antenna	ETS · Lindgren	3115	00143147	750MHz~18GHz	Oct. 22, 2019	Oct. 21, 2020	Radiation (03CH04-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 12, 2019	Jun. 11, 2020	Radiation (03CH04-CB)
Pre-Amplifier	Agilent	83017A	MY53270063	0.5GHz ~ 26.5GHz	Mar. 11, 2020	Mar. 10, 2021	Radiation (03CH04-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 03, 2019	Jul. 02, 2020	Radiation (03CH04-CB)
Spectrum Analyzer	R&S	FSP40	100142	9kHz~40GHz	Dec. 18, 2019	Dec. 17, 2020	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21	1GHz - 18GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21+22	1GHz - 18GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH04-CB)
Spectrum analyzer	R&S	FSV40	101028	9kHz~40GHz	Nov. 01, 2019	Oct. 31, 2020	Conducted (TH03-CB)
Power Sensor	Anritsu	MA2411B	1726195	300MHz~40GHz	Aug. 13, 2019	Aug. 12, 2020	Conducted (TH03-CB)
Power Meter	Anritsu	ML2495A	1035008	300MHz~40GHz	Aug. 13, 2019	Aug. 12, 2020	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-11	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-12	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-13	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-14	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-15	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH03-CB)

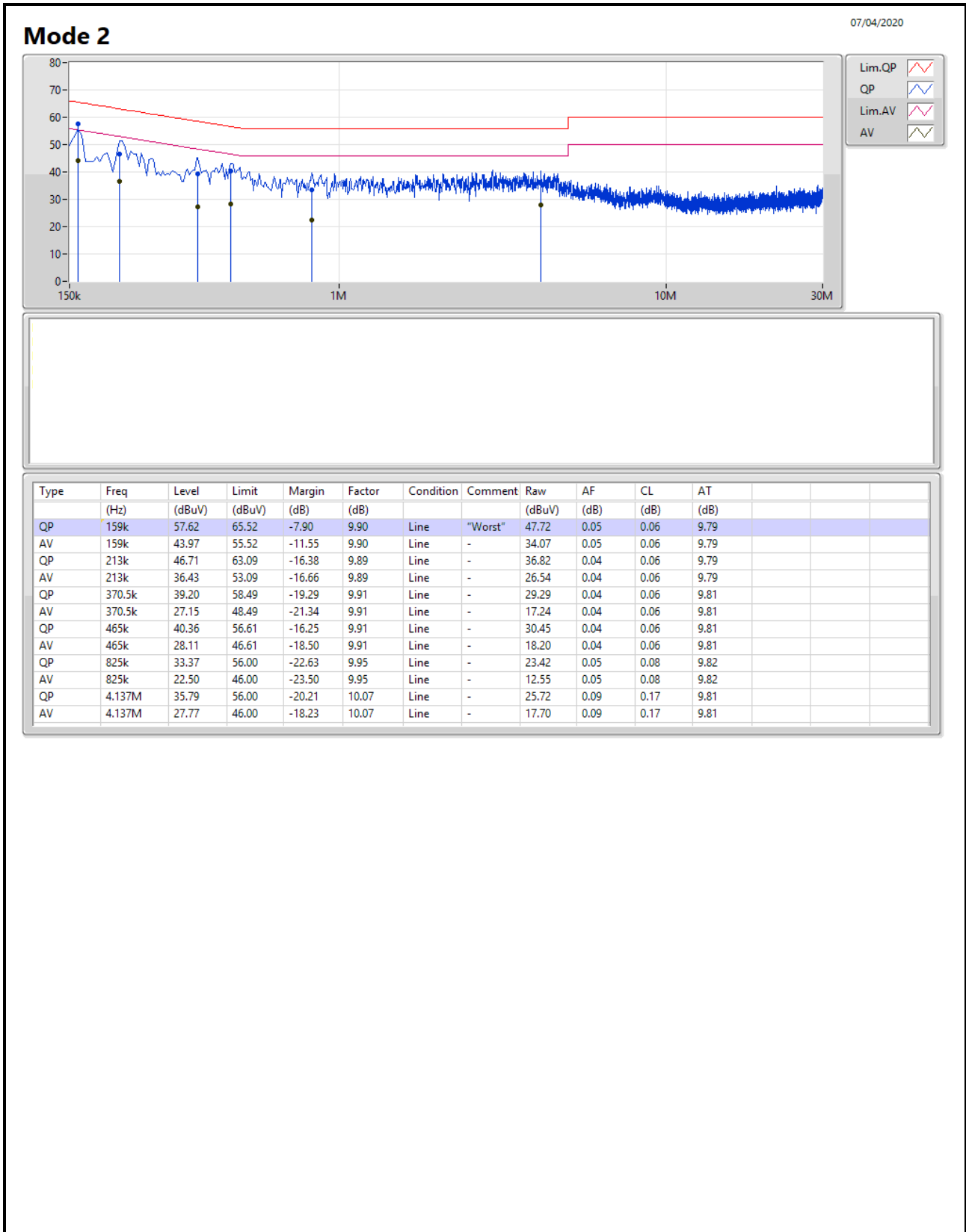
Note: Calibration Interval of instruments listed above is one year.

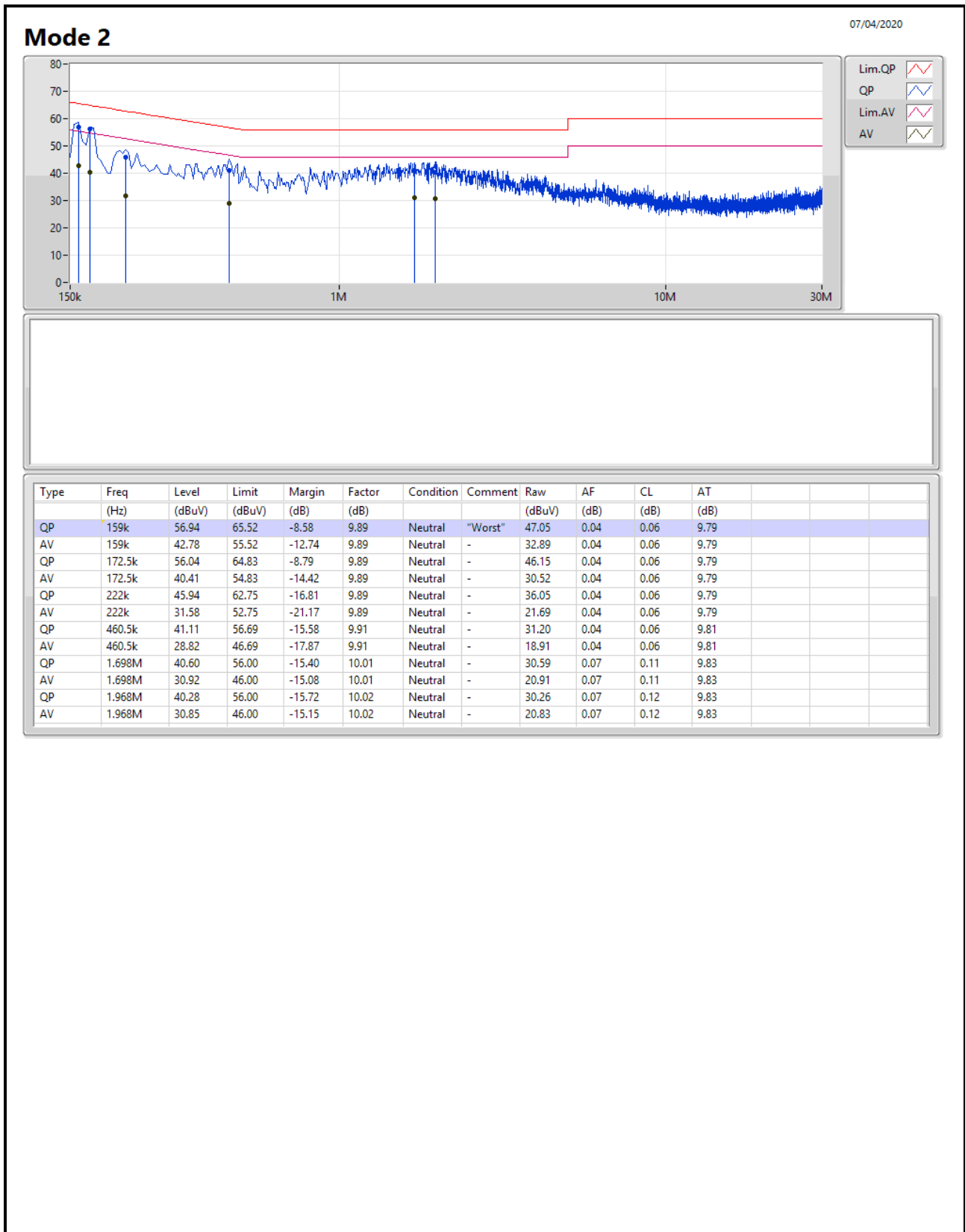
N.C.R. means Non-Calibration required.



**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition
Mode 2	Pass	QP	159k	57.62	65.52	-7.90	9.90	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	875.812k	876KF1D	908.75k	868.316k
BT-EDR(2Mbps)	1.31M	1.197M	1M20G1D	1.256M	1.189M
BT-EDR(3Mbps)	1.29M	1.211M	1M21G1D	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;

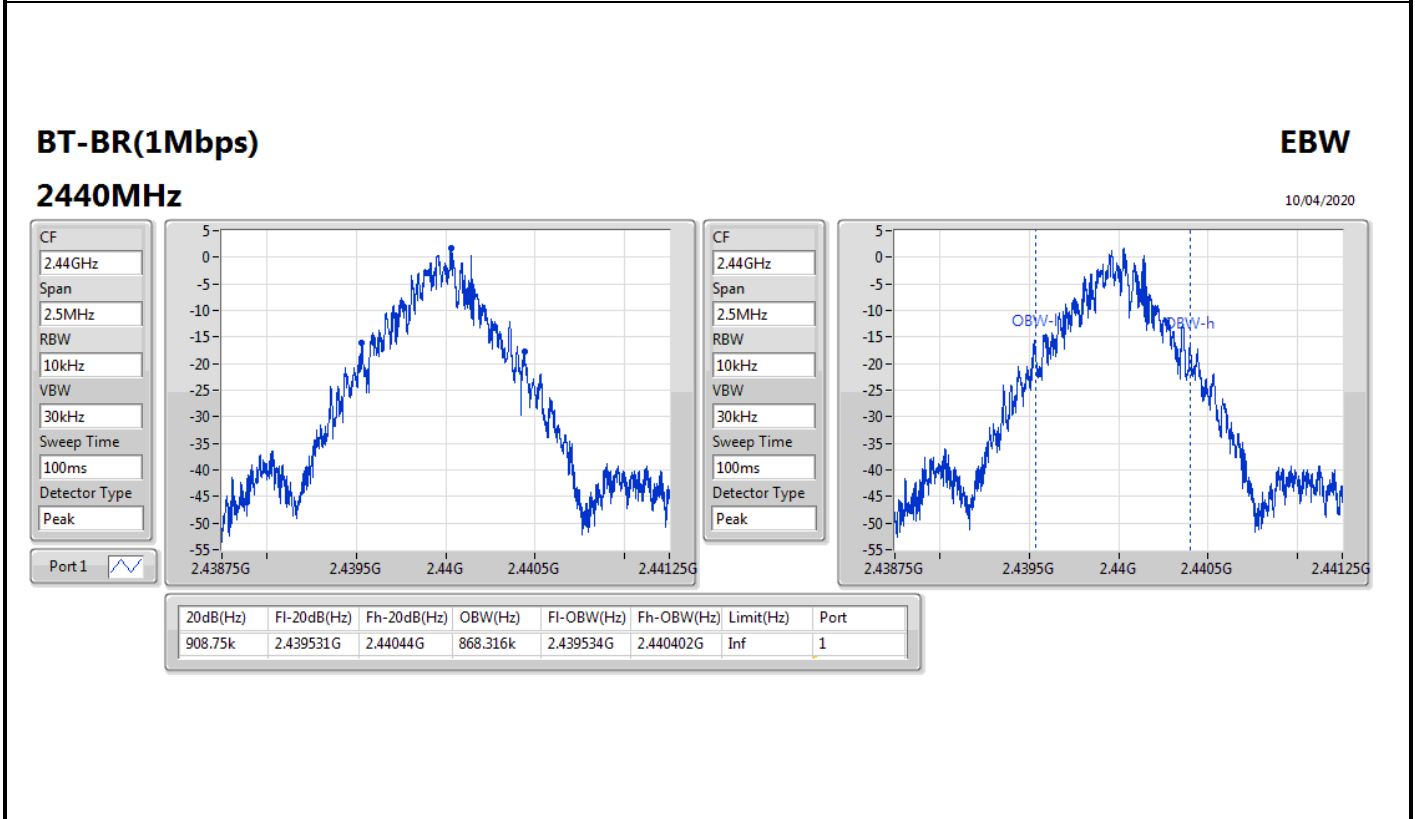
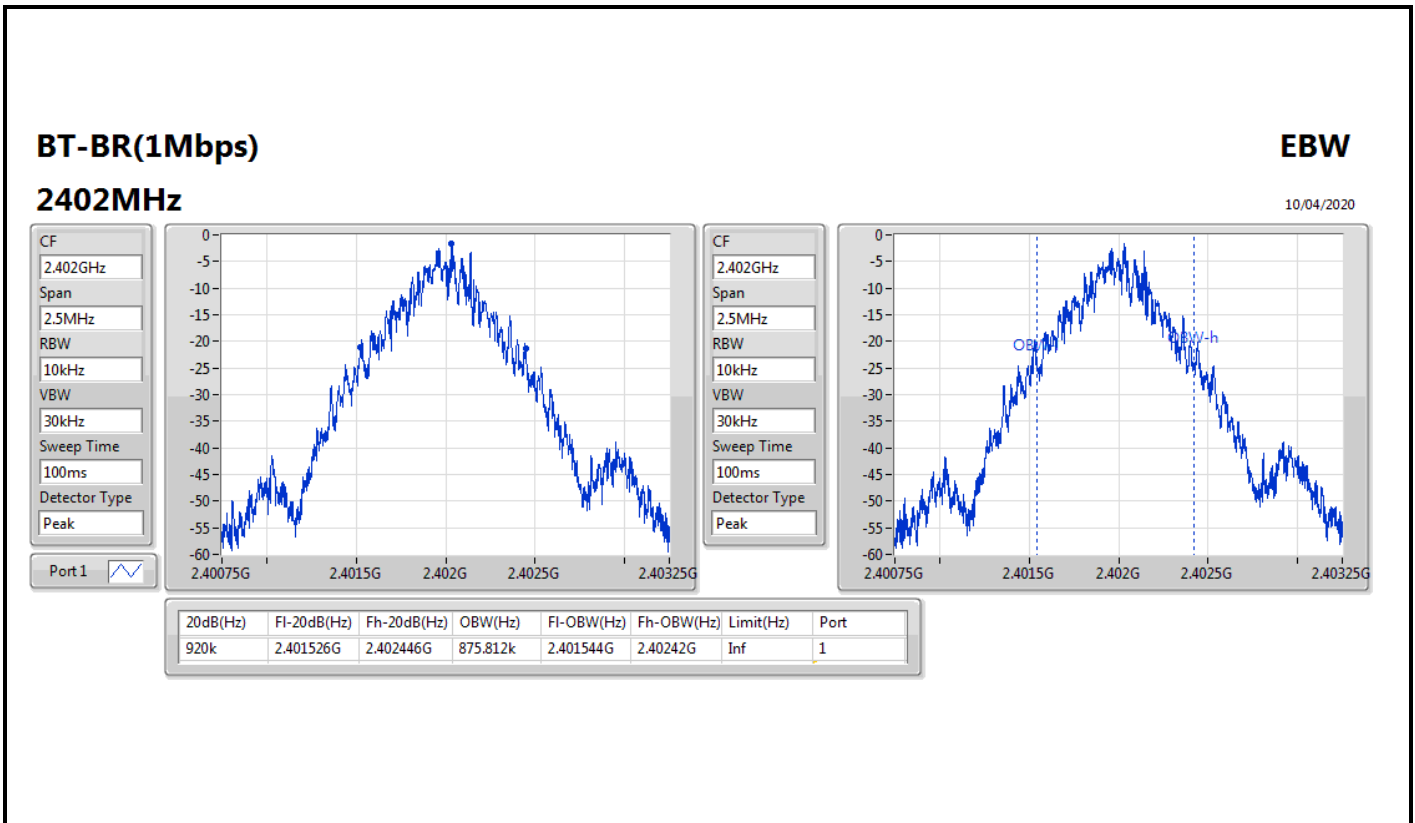


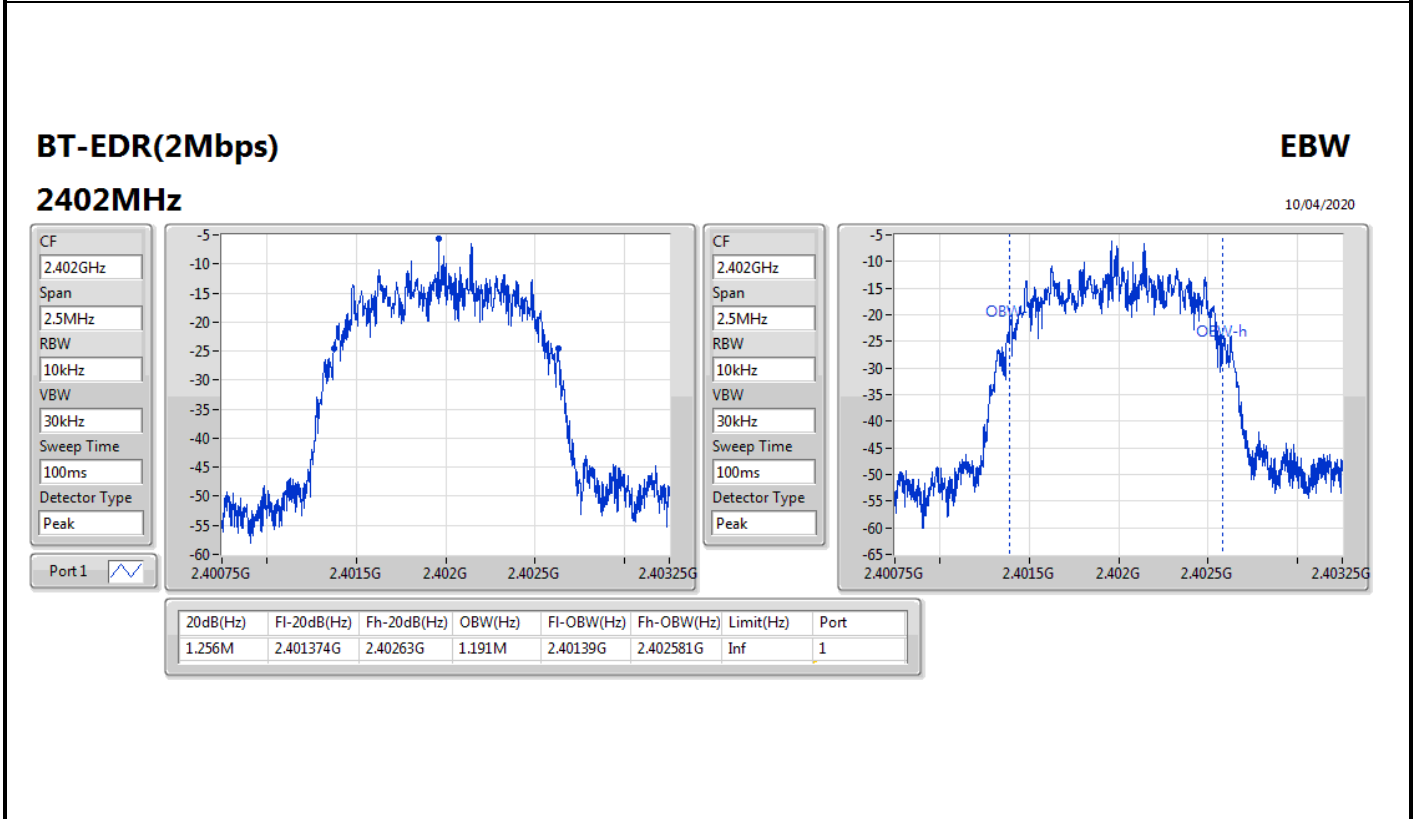
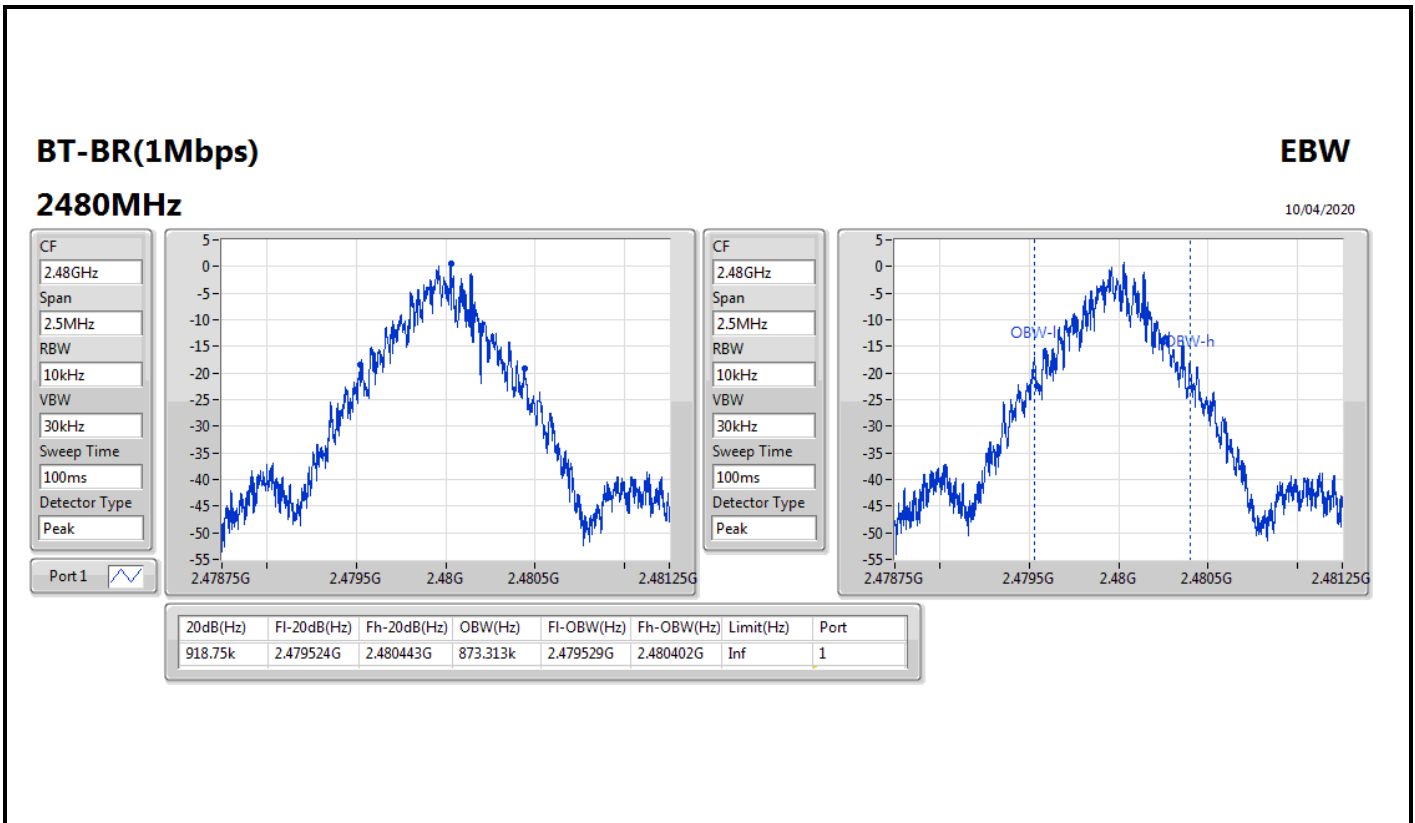


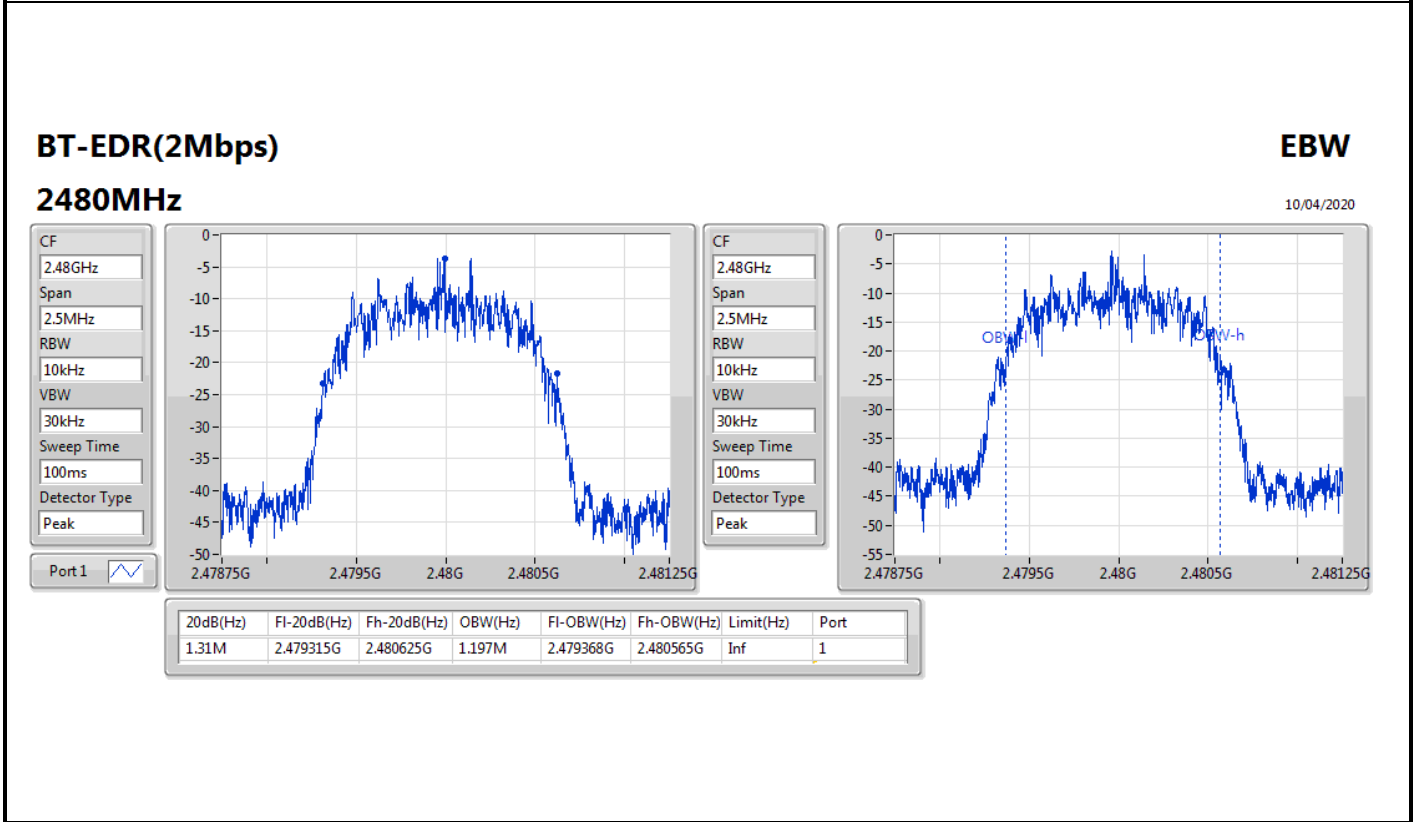
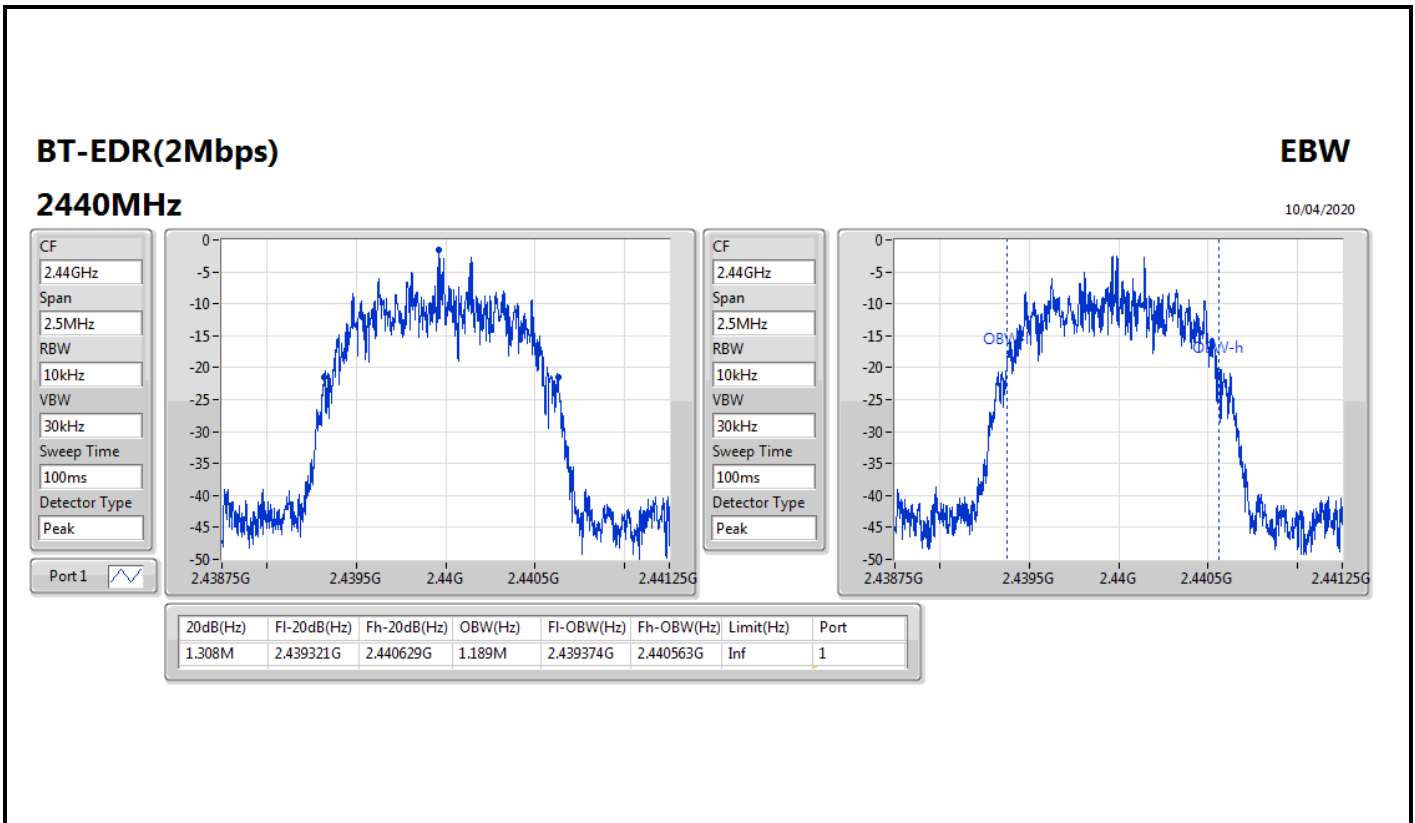
**Result**

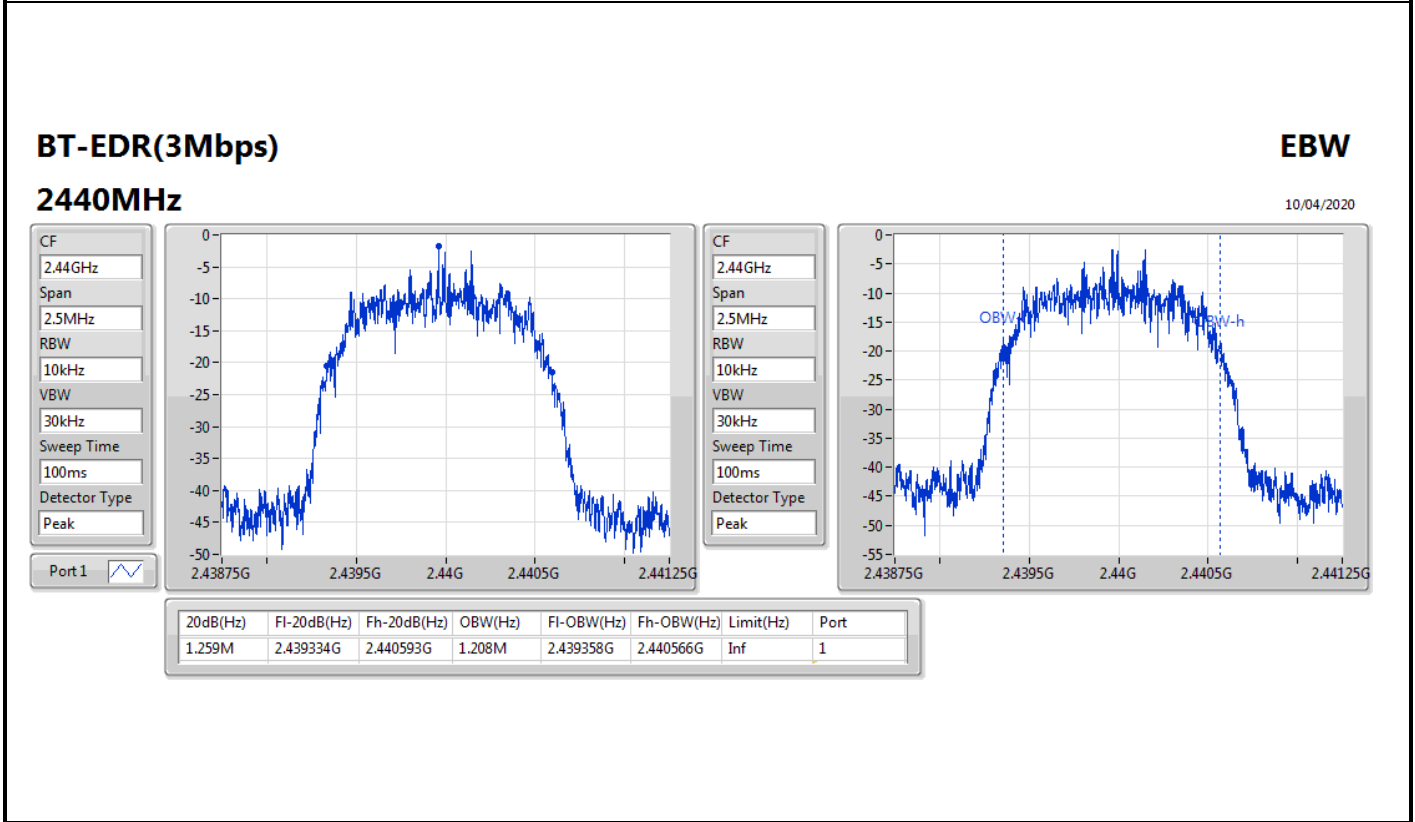
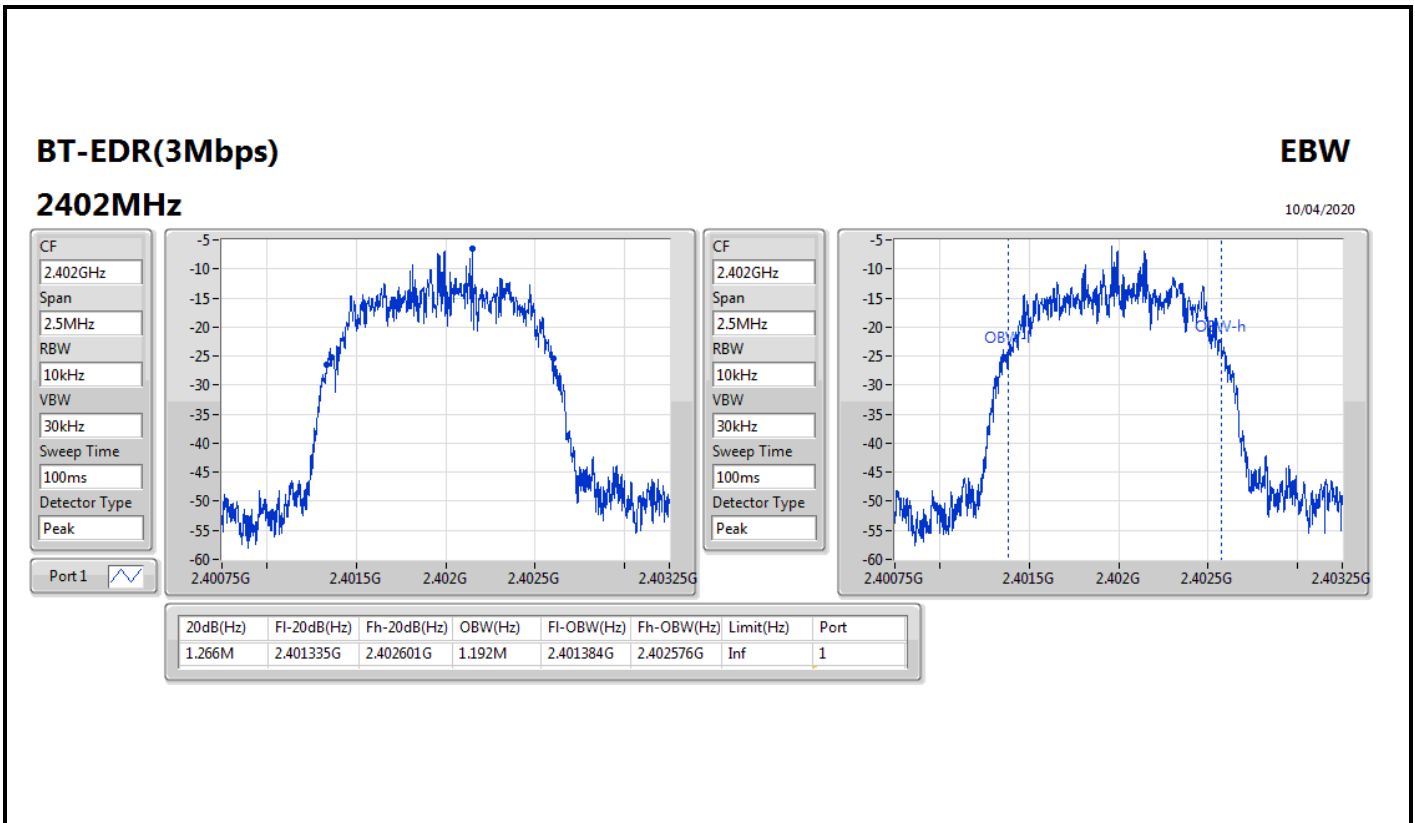
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	Inf	920k	875.812k
2440MHz	Pass	Inf	908.75k	868.316k
2480MHz	Pass	Inf	918.75k	873.313k
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.256M	1.191M
2440MHz	Pass	Inf	1.308M	1.189M
2480MHz	Pass	Inf	1.31M	1.197M
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.266M	1.192M
2440MHz	Pass	Inf	1.259M	1.208M
2480MHz	Pass	Inf	1.29M	1.211M

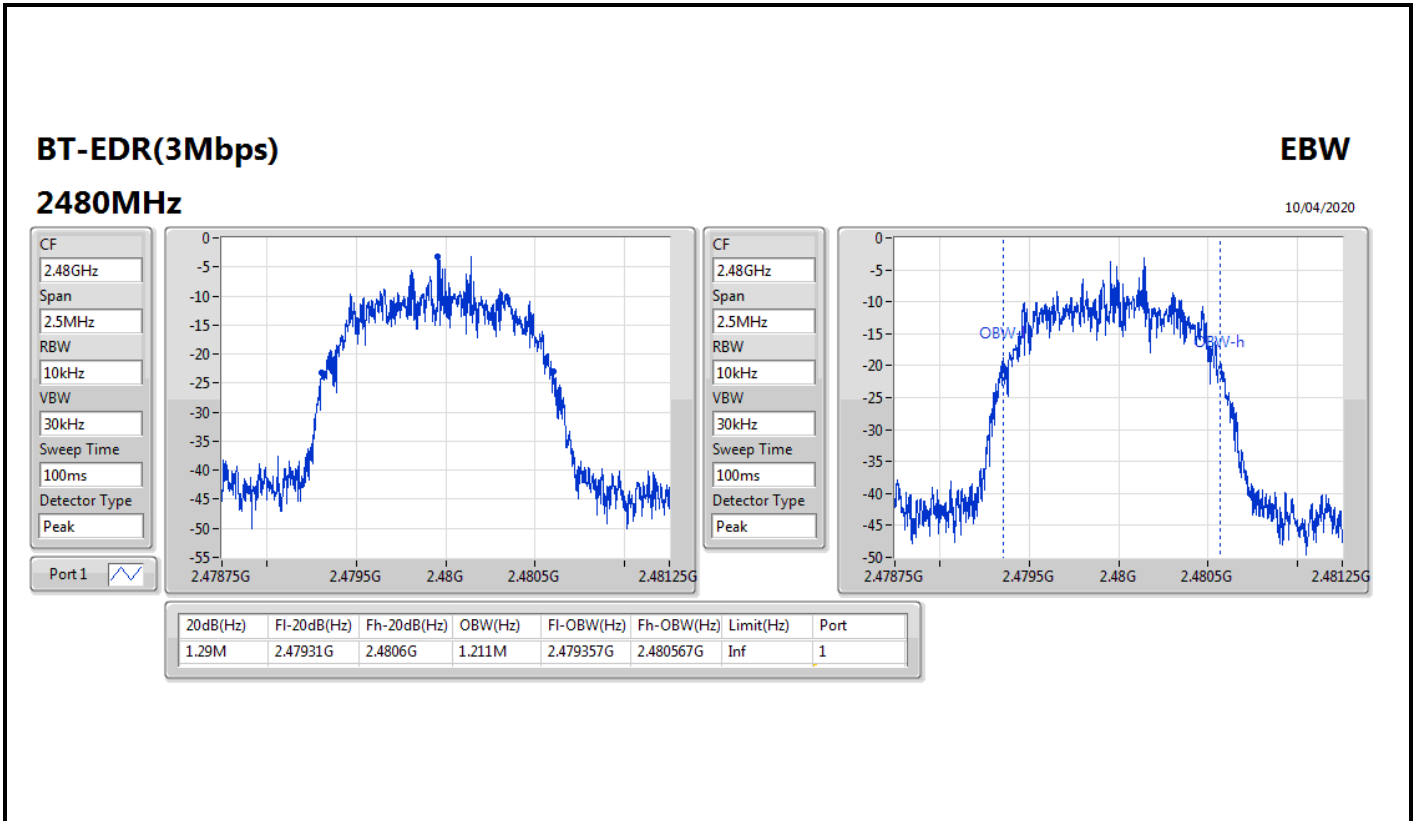
**Port X-N dB** = Port X 20dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;













**Summary**

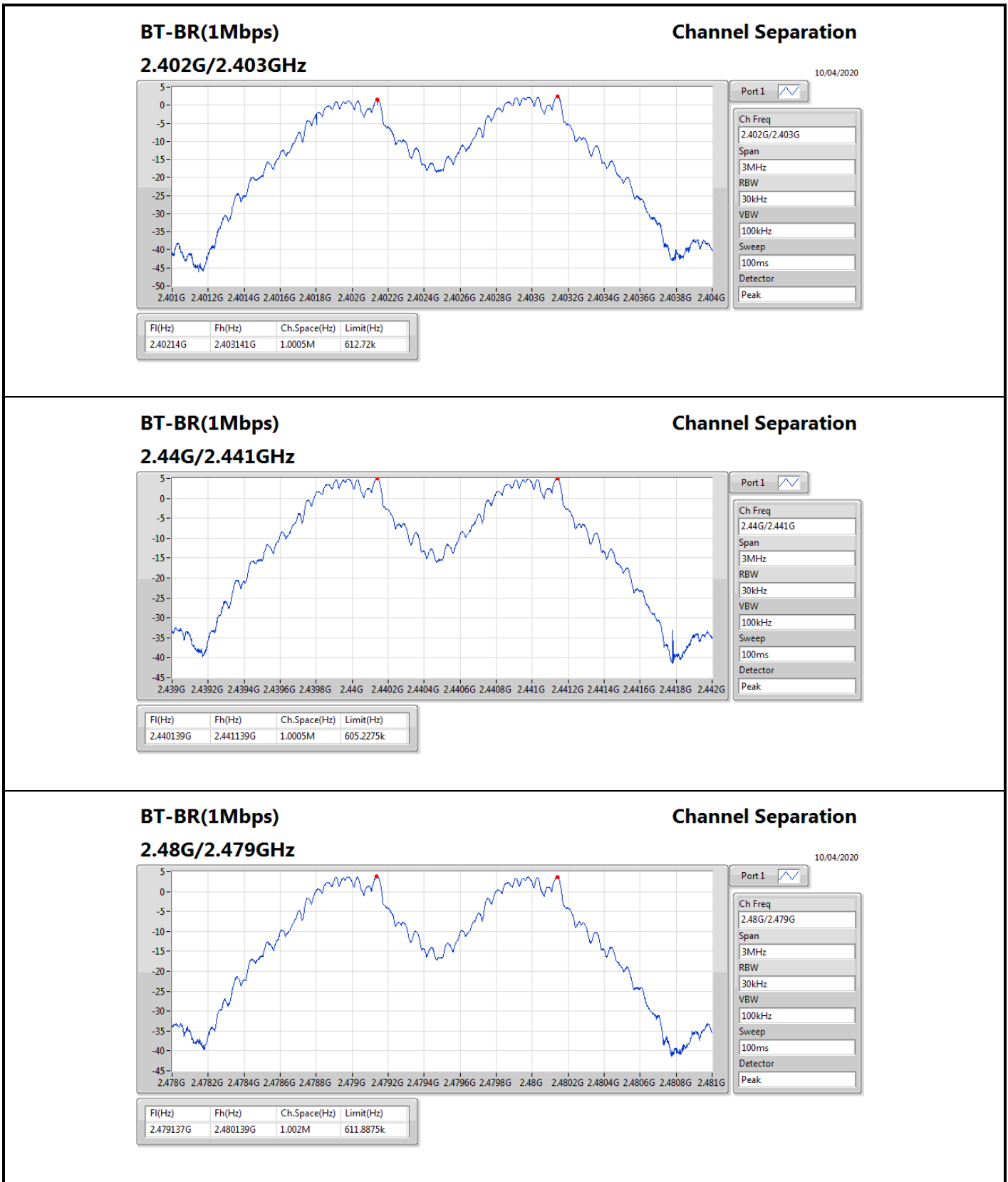
Mode	Max-Space (Hz)	Min-Space (Hz)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	1.002M	1.0005M
BT-EDR(2Mbps)	1.002M	999k
BT-EDR(3Mbps)	1.002M	999k

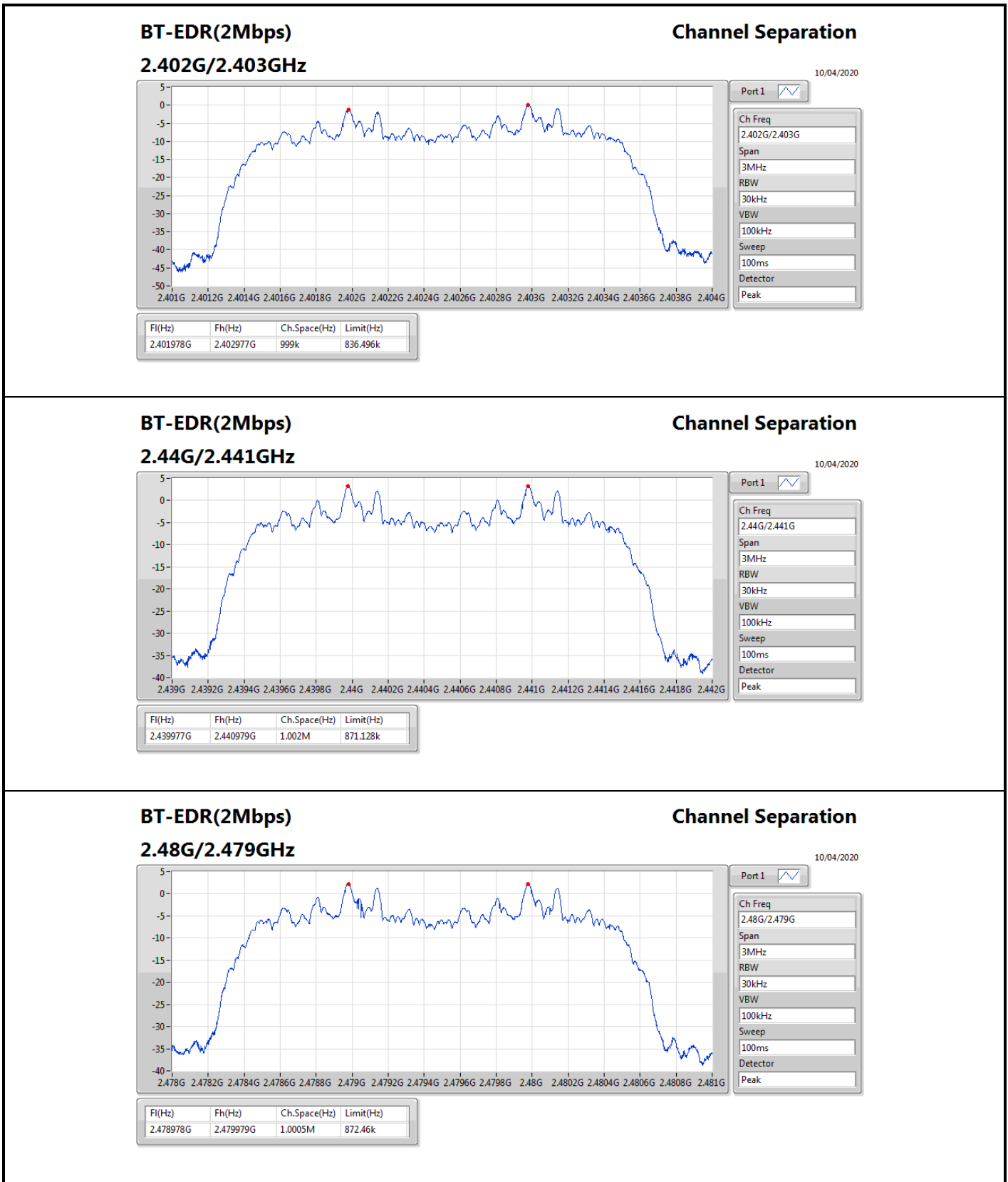


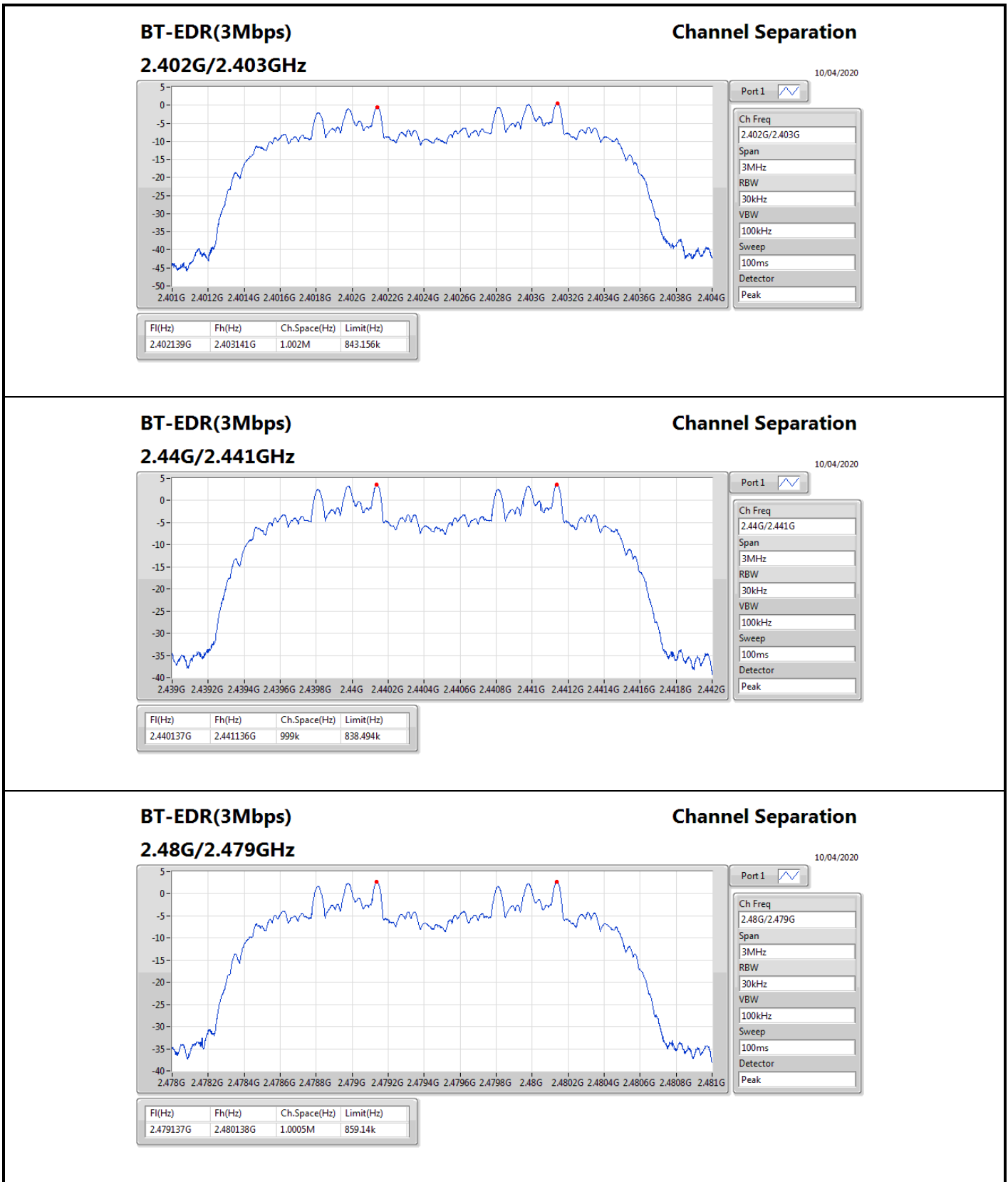
**Result**

Mode	Result	Fl (Hz)	Fh (Hz)	Ch.Space (Hz)	Limit (Hz)
BT-BR(1Mbps)	-	-	-	-	-
2402MHz	Pass	2.40214G	2.403141G	1.0005M	612.72k
2440MHz	Pass	2.440139G	2.441139G	1.0005M	605.2275k
2480MHz	Pass	2.479137G	2.480139G	1.002M	611.8875k
BT-EDR(2Mbps)	-	-	-	-	-
2402MHz	Pass	2.401978G	2.402977G	999k	836.496k
2440MHz	Pass	2.439977G	2.440979G	1.002M	871.128k
2480MHz	Pass	2.478978G	2.479979G	1.0005M	872.46k
BT-EDR(3Mbps)	-	-	-	-	-
2402MHz	Pass	2.402139G	2.403141G	1.002M	843.156k
2440MHz	Pass	2.440137G	2.441136G	999k	838.494k
2480MHz	Pass	2.479137G	2.480138G	1.0005M	859.14k











**Summary**

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	6.98	0.00499
BT-EDR(2Mbps)	4.51	0.00282
BT-EDR(3Mbps)	4.59	0.00288



**Result**

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	2.70	3.92	21.00
2440MHz	Pass	2.70	6.98	21.00
2480MHz	Pass	2.70	6.38	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	2.70	0.12	21.00
2440MHz	Pass	2.70	4.51	21.00
2480MHz	Pass	2.70	3.74	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	2.70	0.86	21.00
2440MHz	Pass	2.70	4.59	21.00
2480MHz	Pass	2.70	3.43	21.00

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



**Summary**

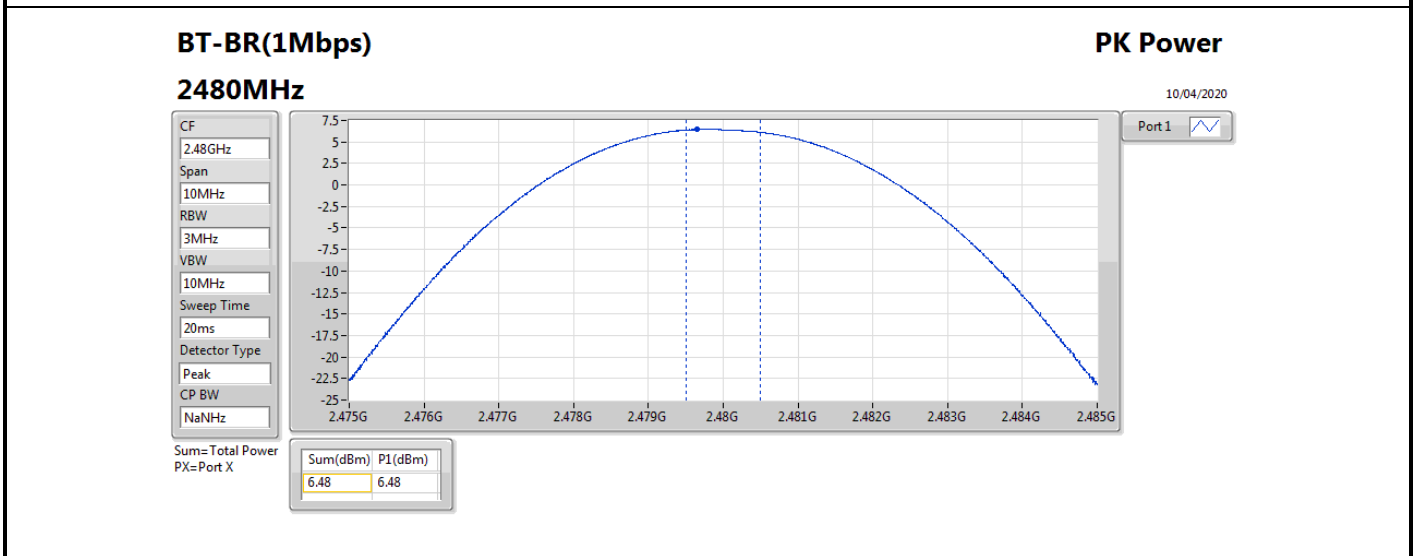
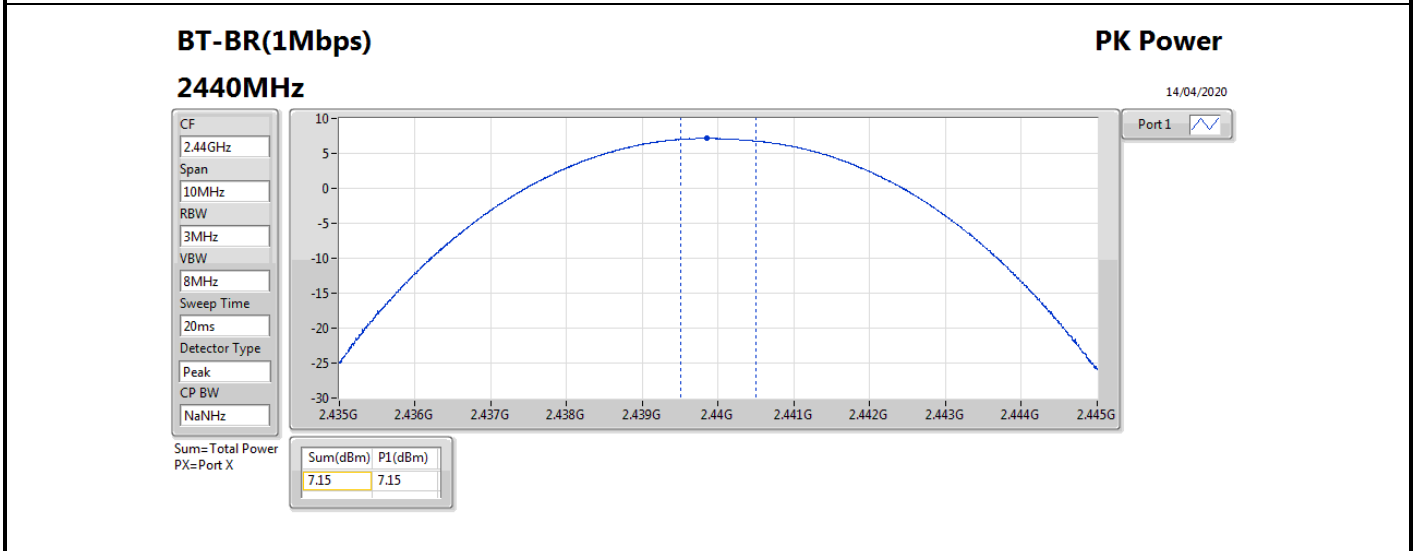
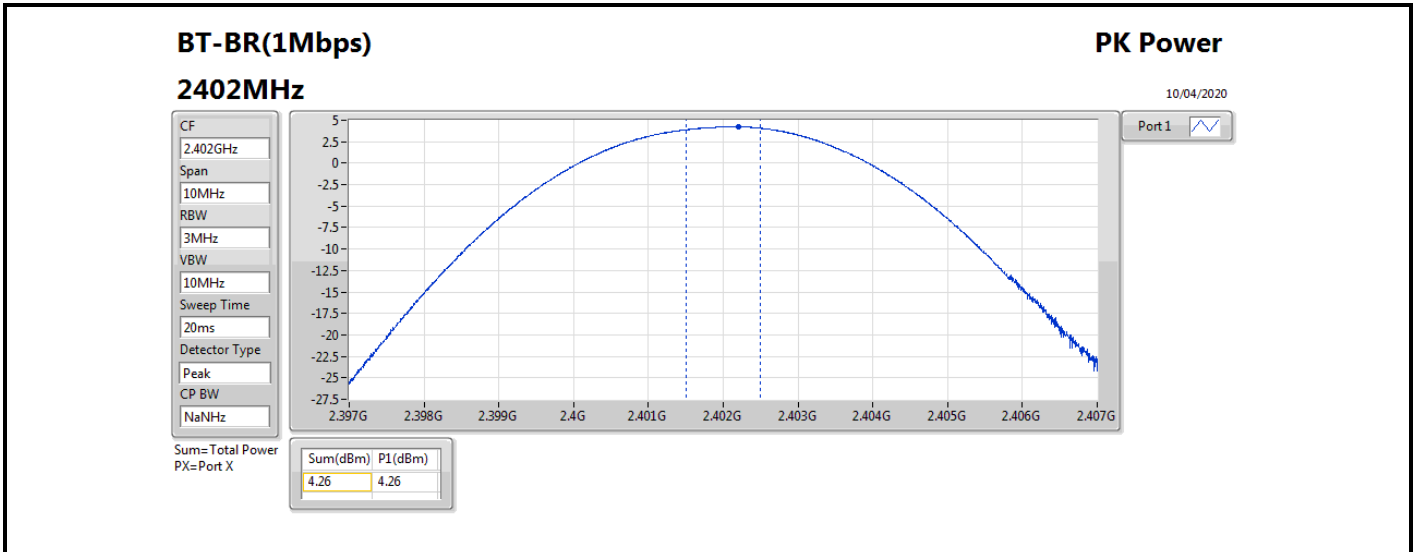
Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	7.15	0.00519
BT-EDR(2Mbps)	6.63	0.00460
BT-EDR(3Mbps)	7.04	0.00506



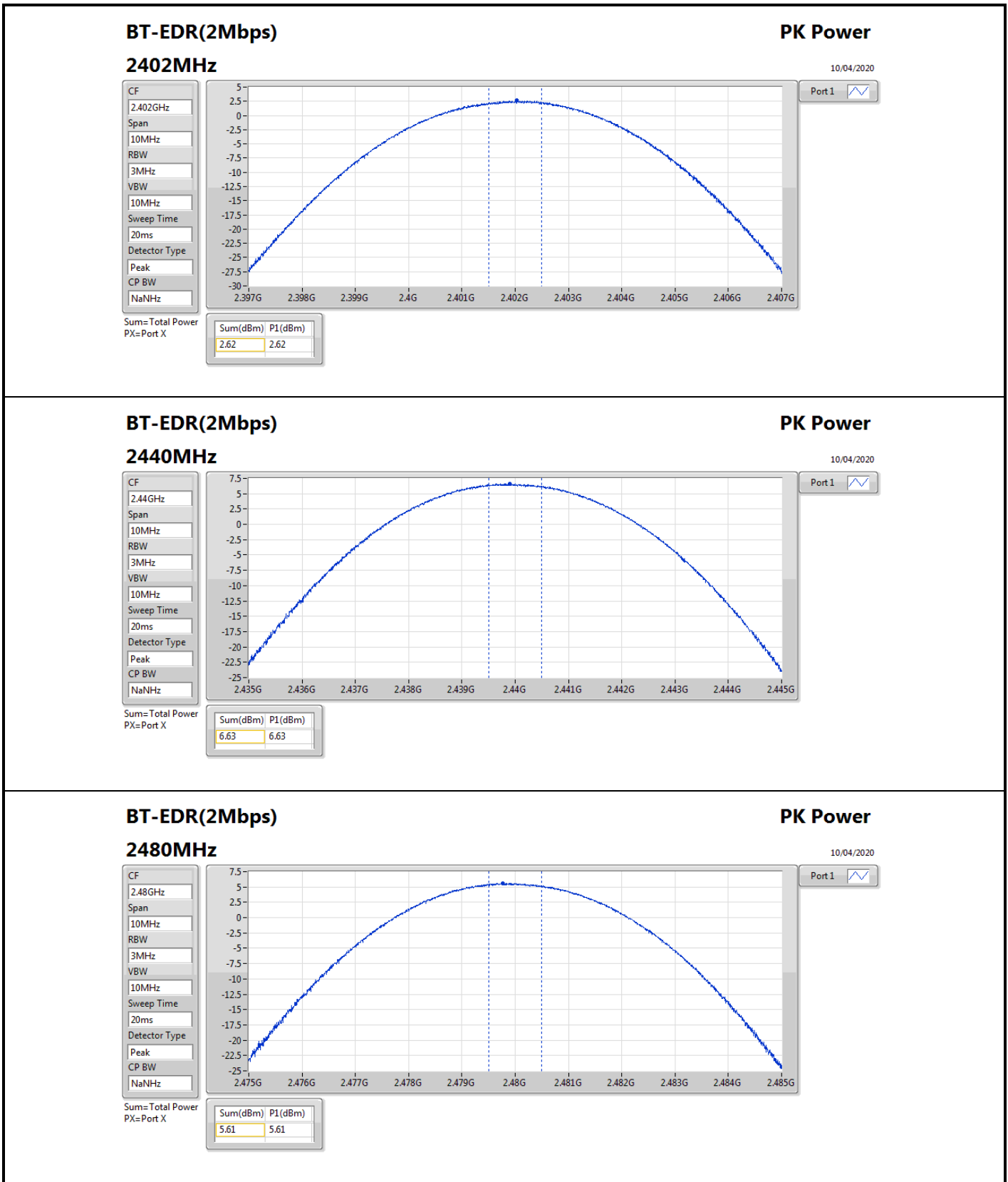
**Result**

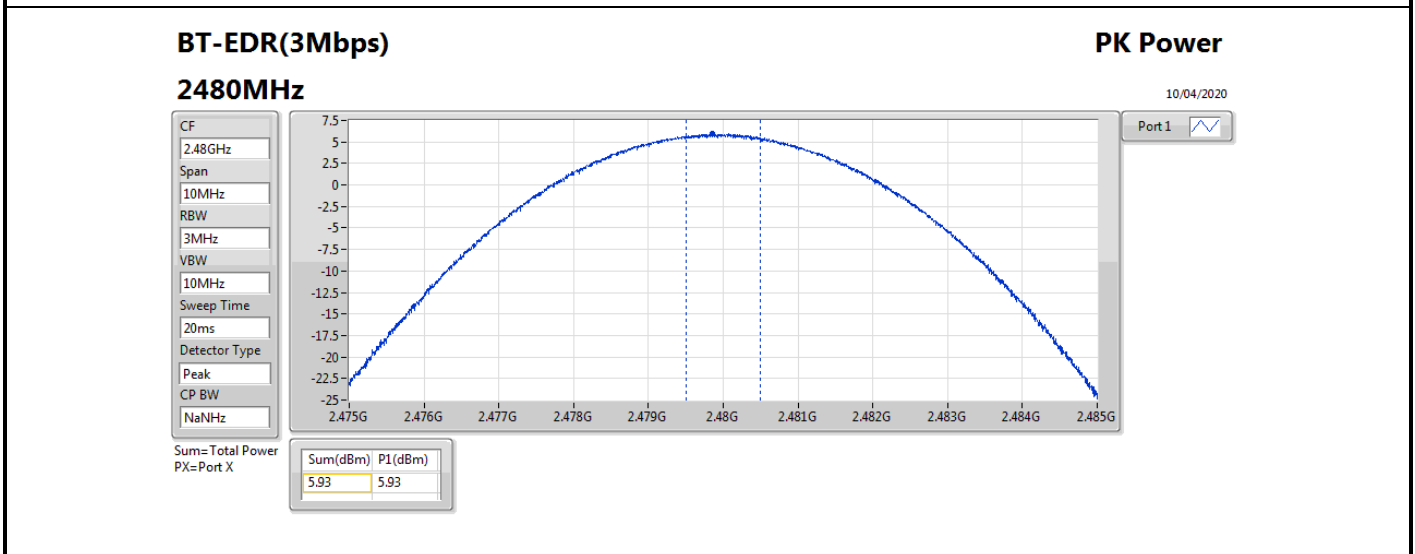
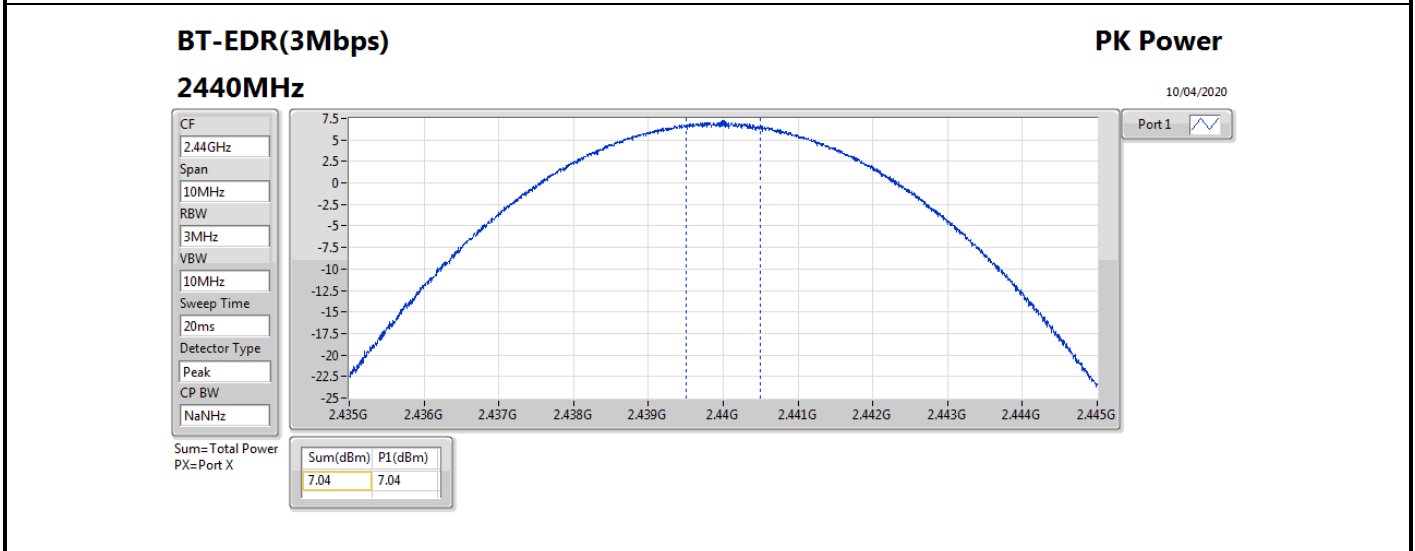
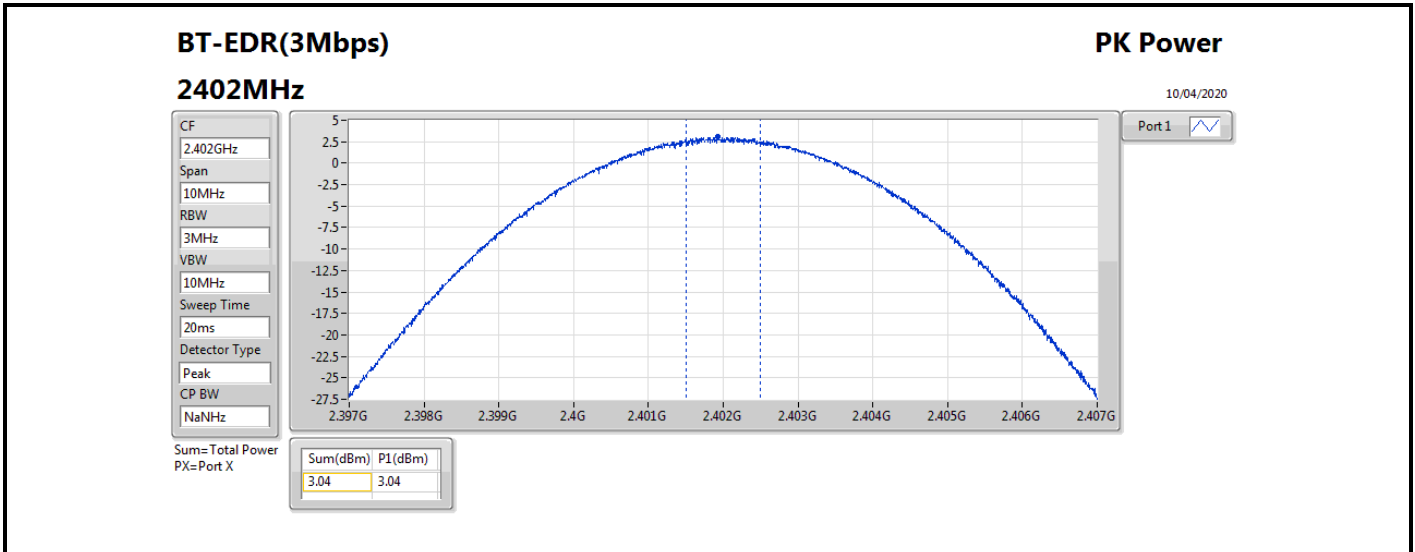
Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	2.70	4.26	21.00
2440MHz	Pass	2.70	7.15	21.00
2480MHz	Pass	2.70	6.48	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	2.70	2.62	21.00
2440MHz	Pass	2.70	6.63	21.00
2480MHz	Pass	2.70	5.61	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	2.70	3.04	21.00
2440MHz	Pass	2.70	7.04	21.00
2480MHz	Pass	2.70	5.93	21.00

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











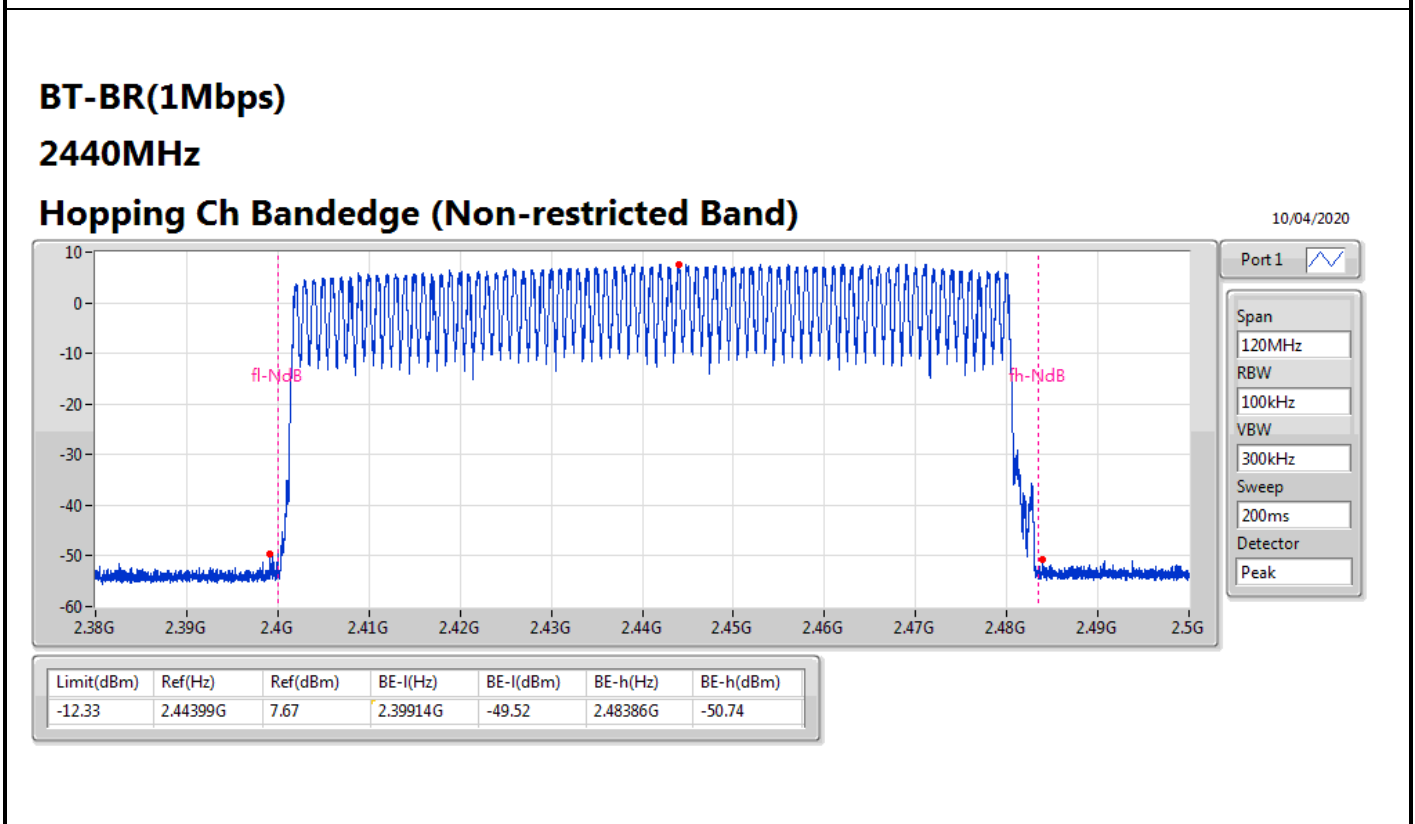
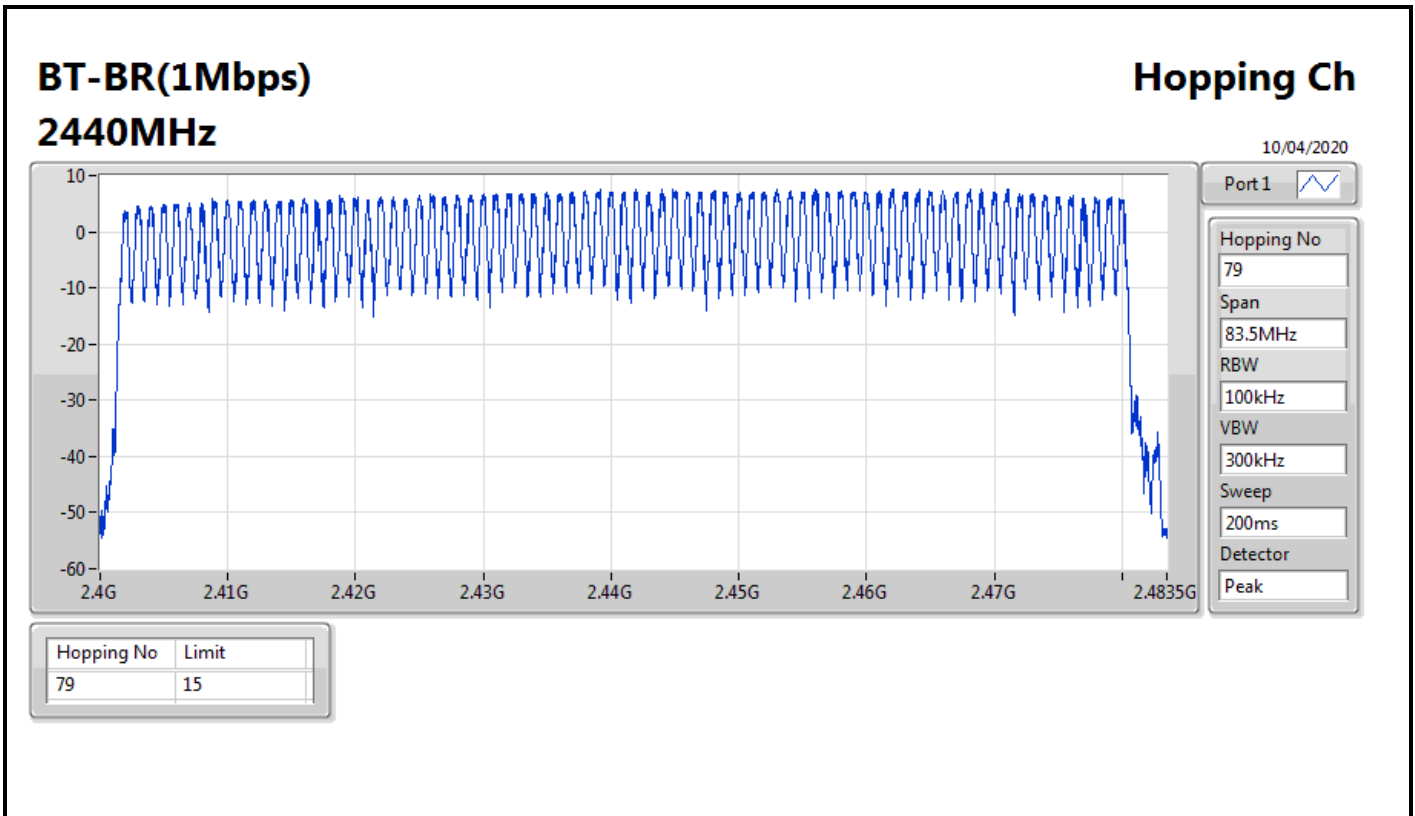
**Summary**

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



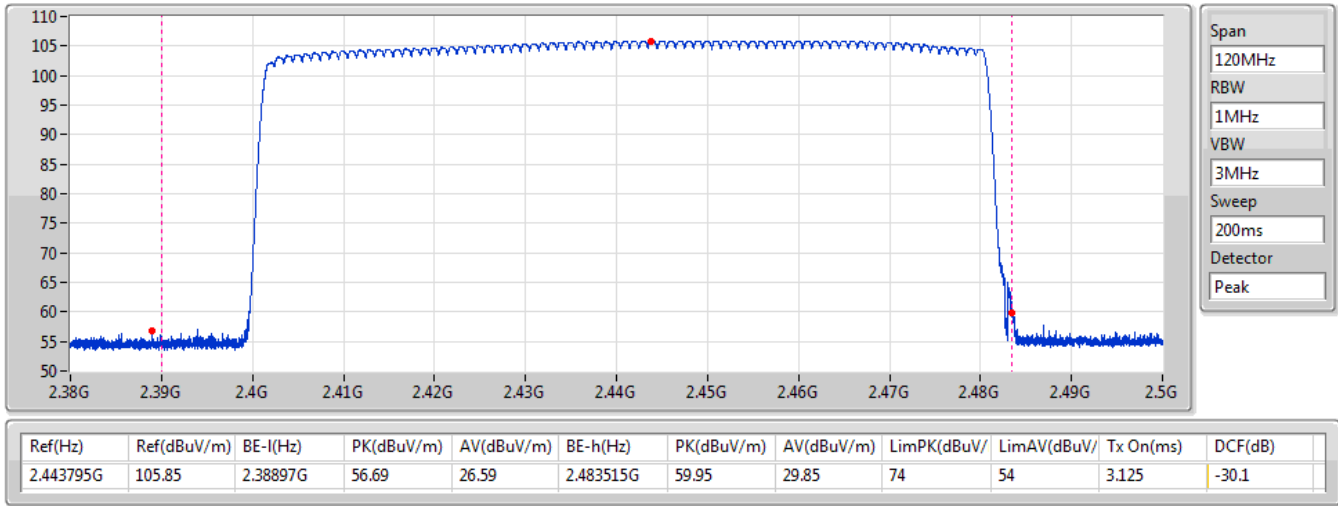
**Result**

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



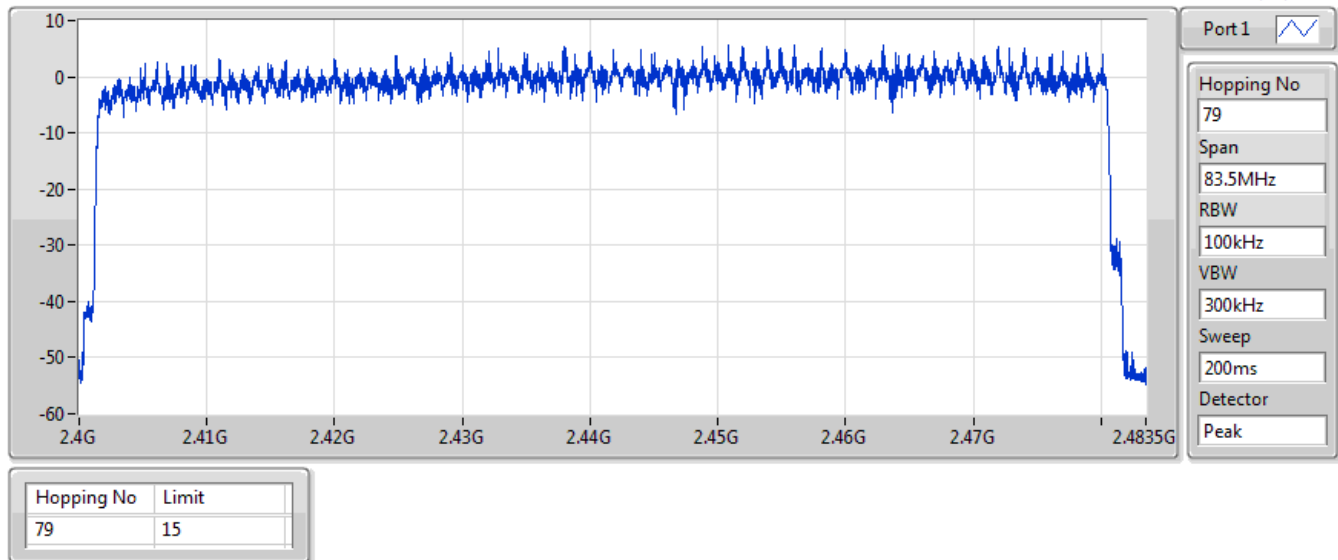
**BT-BR(1Mbps)**  
**2440MHz**  
**Hopping Ch Bandedge (Restricted Band)**

10/04/2020



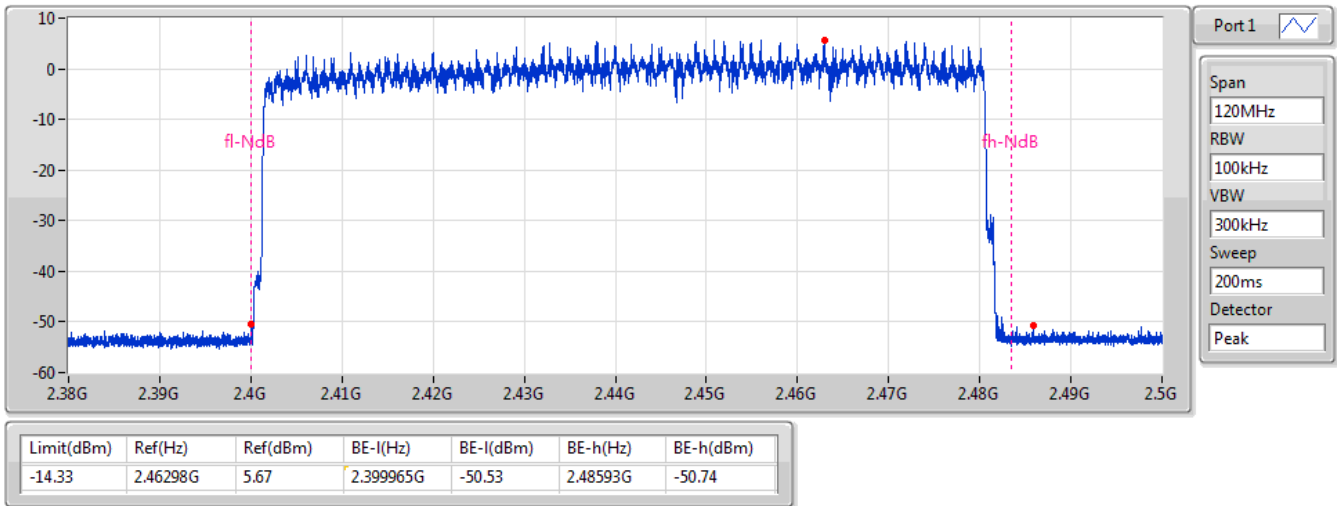
**BT-EDR(2Mbps)** **Hopping Ch**  
**2440MHz**

10/04/2020



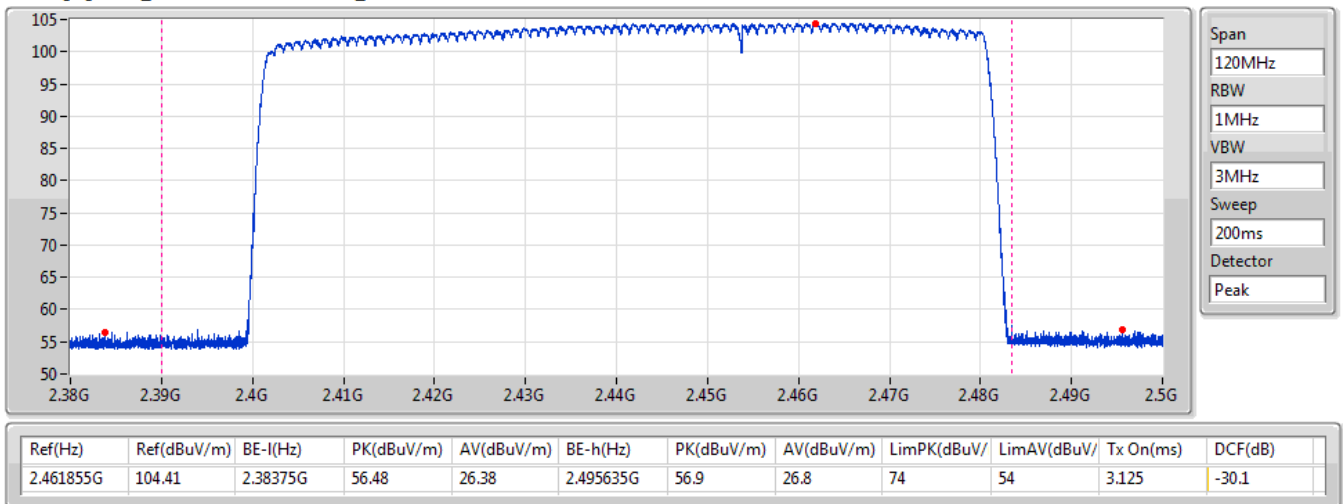
**BT-EDR(2Mbps)**  
**2440MHz**  
**Hopping Ch Bandedge (Non-restricted Band)**

10/04/2020



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

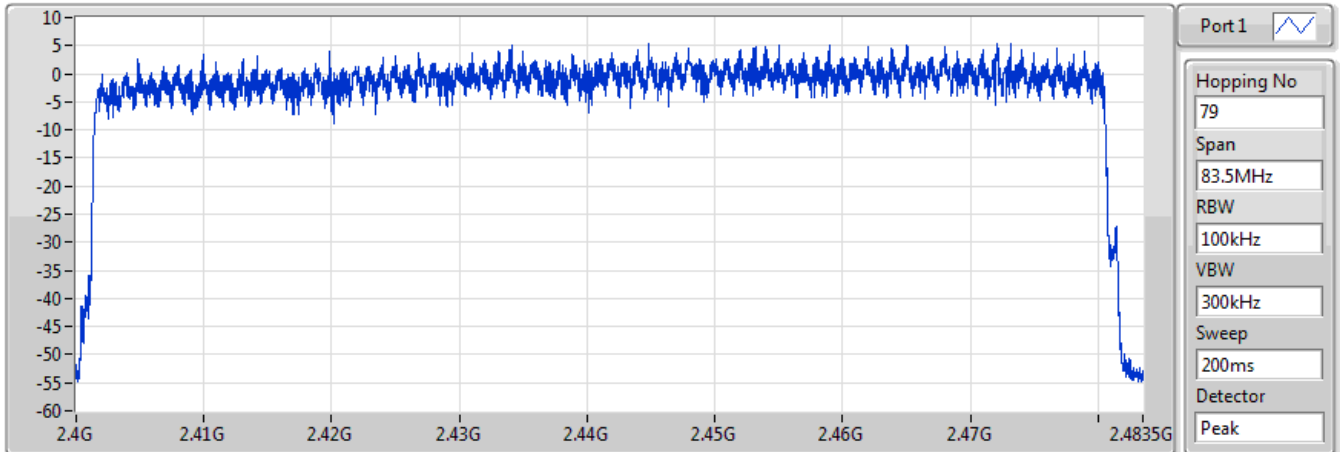
10/04/2020



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

**Hopping Ch**

10/04/2020

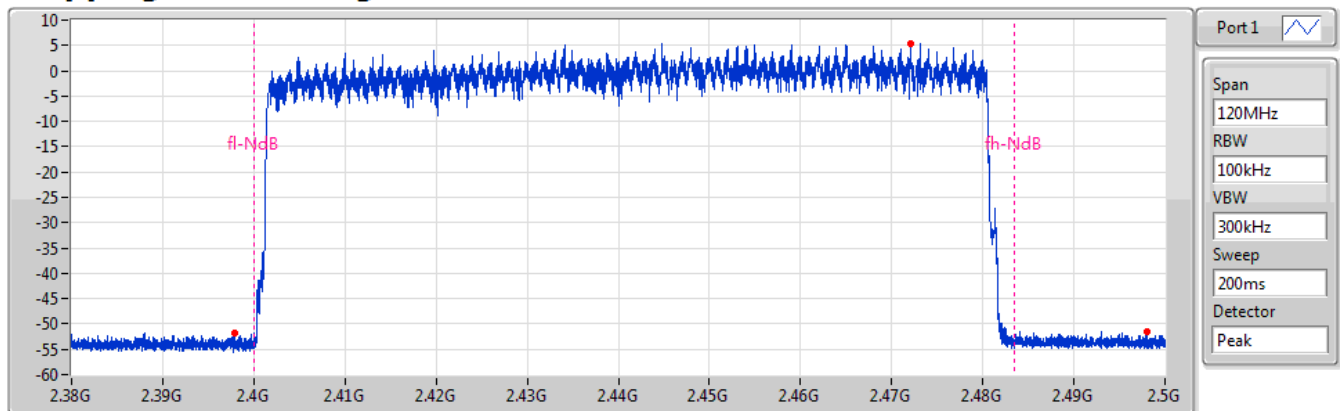


Hopping No	Limit
79	15

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

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

10/04/2020

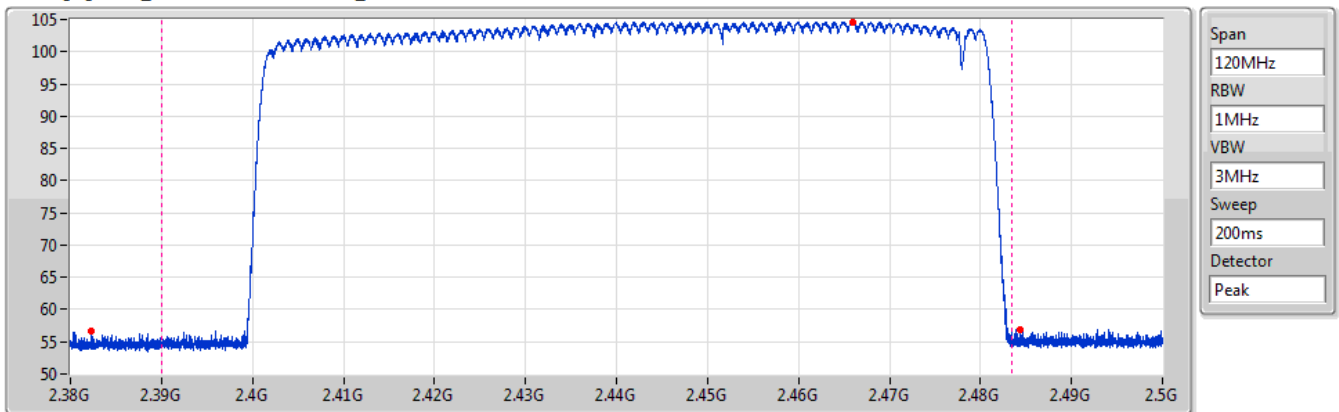


Limit(dBm)	Ref(Hz)	Ref(dBm)	BE-l(Hz)	BE-l(dBm)	BE-h(Hz)	BE-h(dBm)
-14.64	2.472145G	5.36	2.39797G	-51.84	2.498035G	-51.45



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

10/04/2020



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)
2.46595G	104.62	2.38231G	56.75	26.65	2.484355G	56.92	26.82	74	54	3.125	-30.1



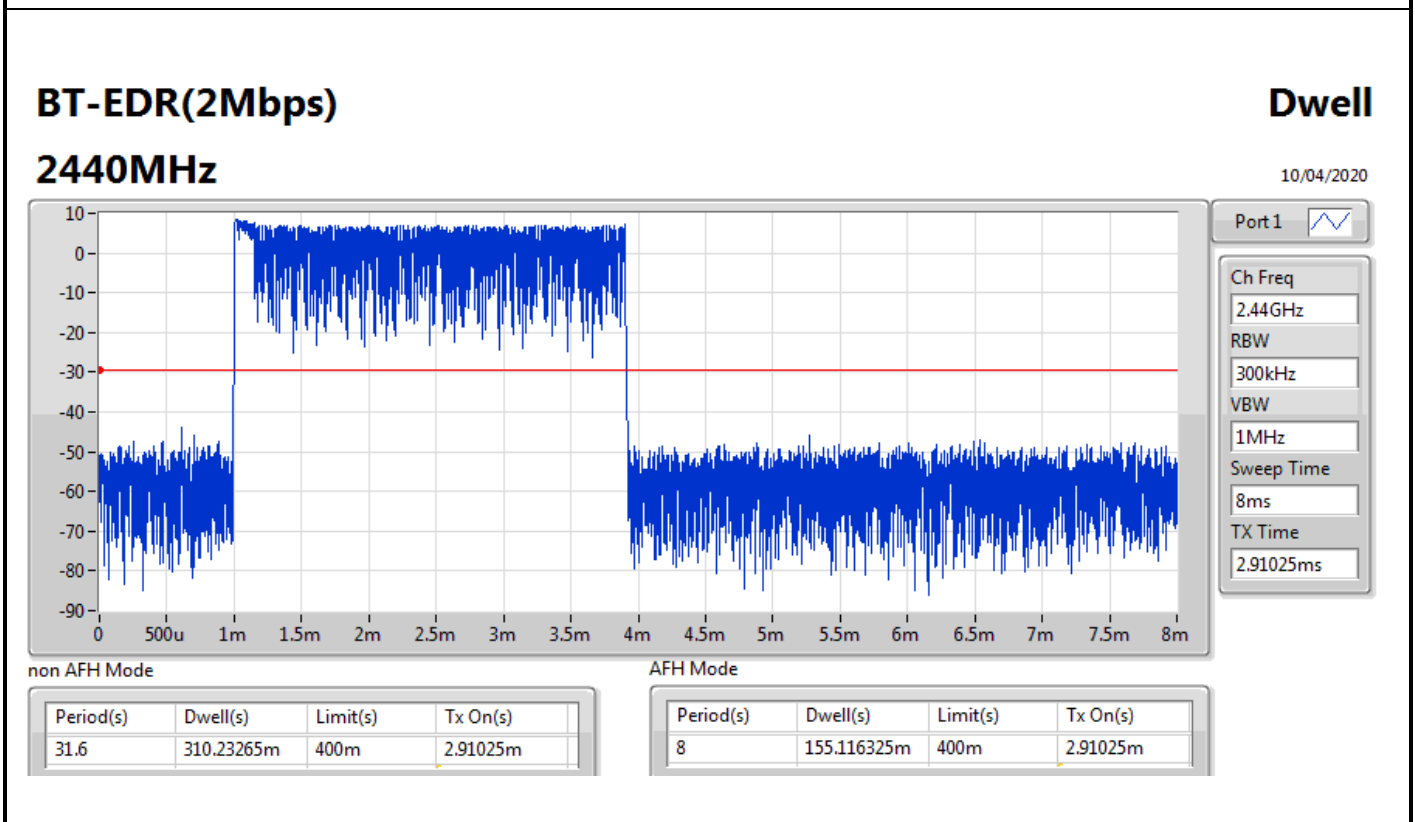
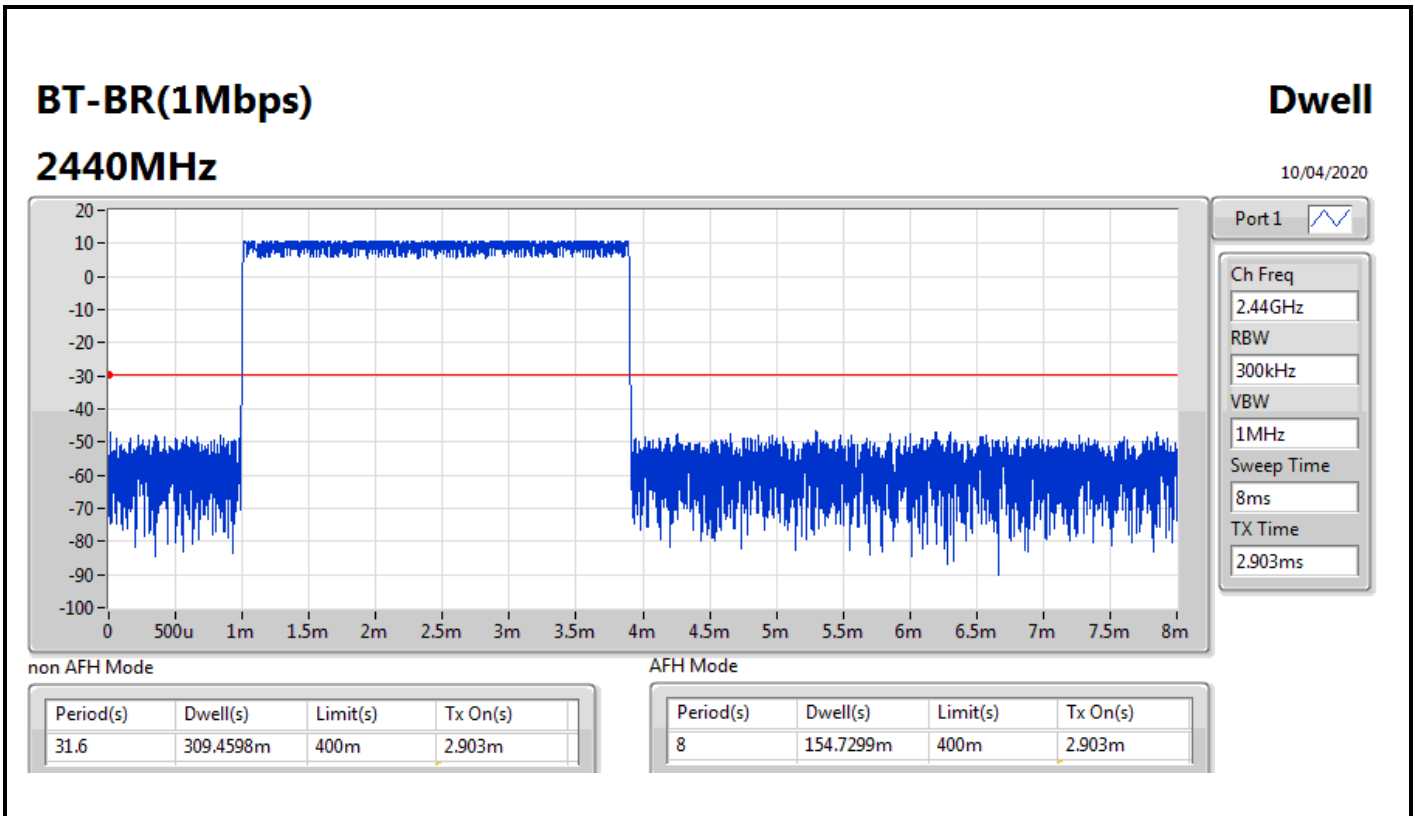
**Summary**

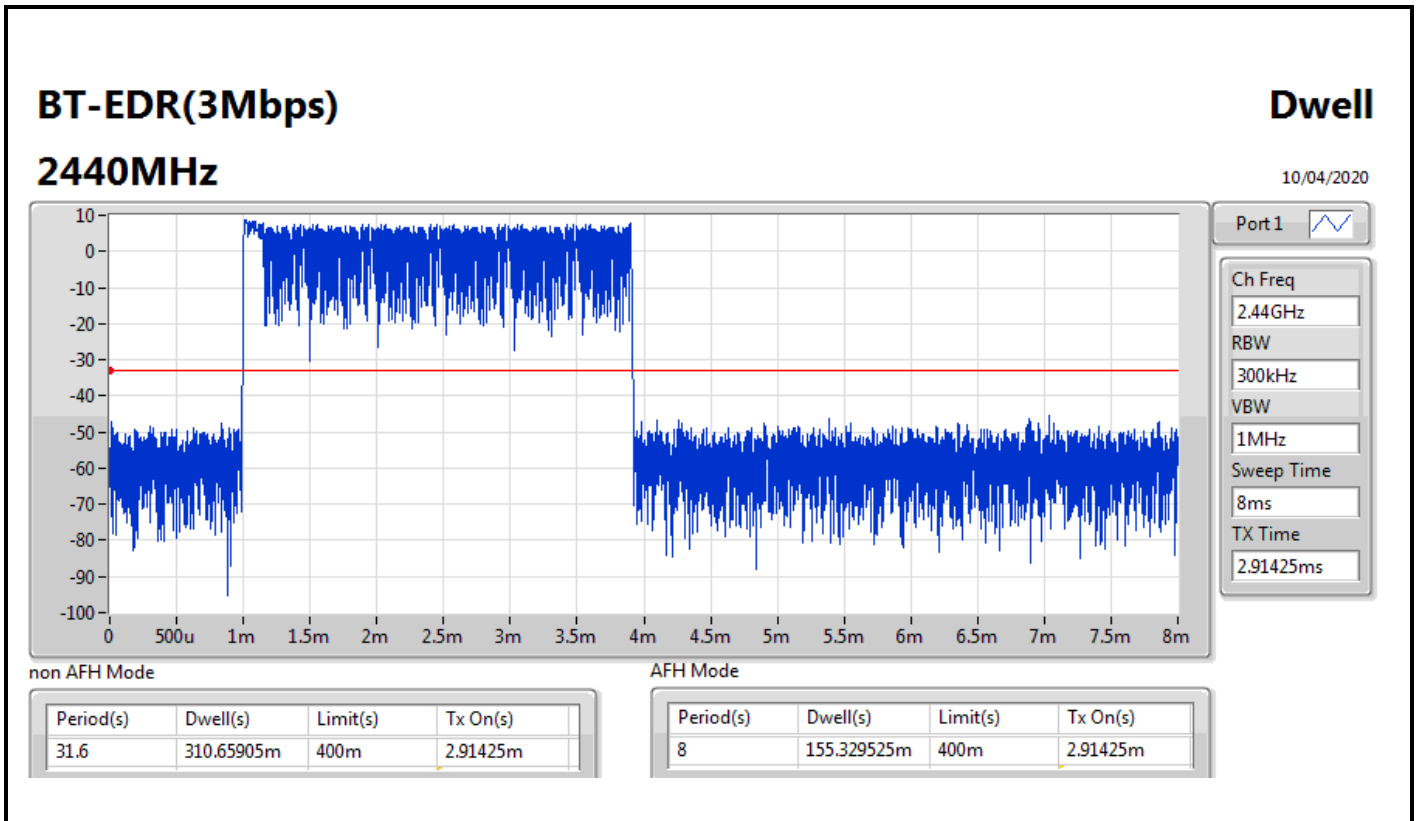
<b>Mode</b>	<b>Max-Dwell (s)</b>
2.4-2.4835GHz	-
BT-BR(1Mbps)	309.4598m
BT-EDR(2Mbps)	310.23265m
BT-EDR(3Mbps)	310.65905m



**Result**

Mode	Result	Period (s)	Dwell (s)	Limit (s)	Tx On (s)
BT-BR(1Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	309.4598m	400m	2.903m
BT-EDR(2Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	310.23265m	400m	2.91025m
BT-EDR(3Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	310.65905m	400m	2.91425m







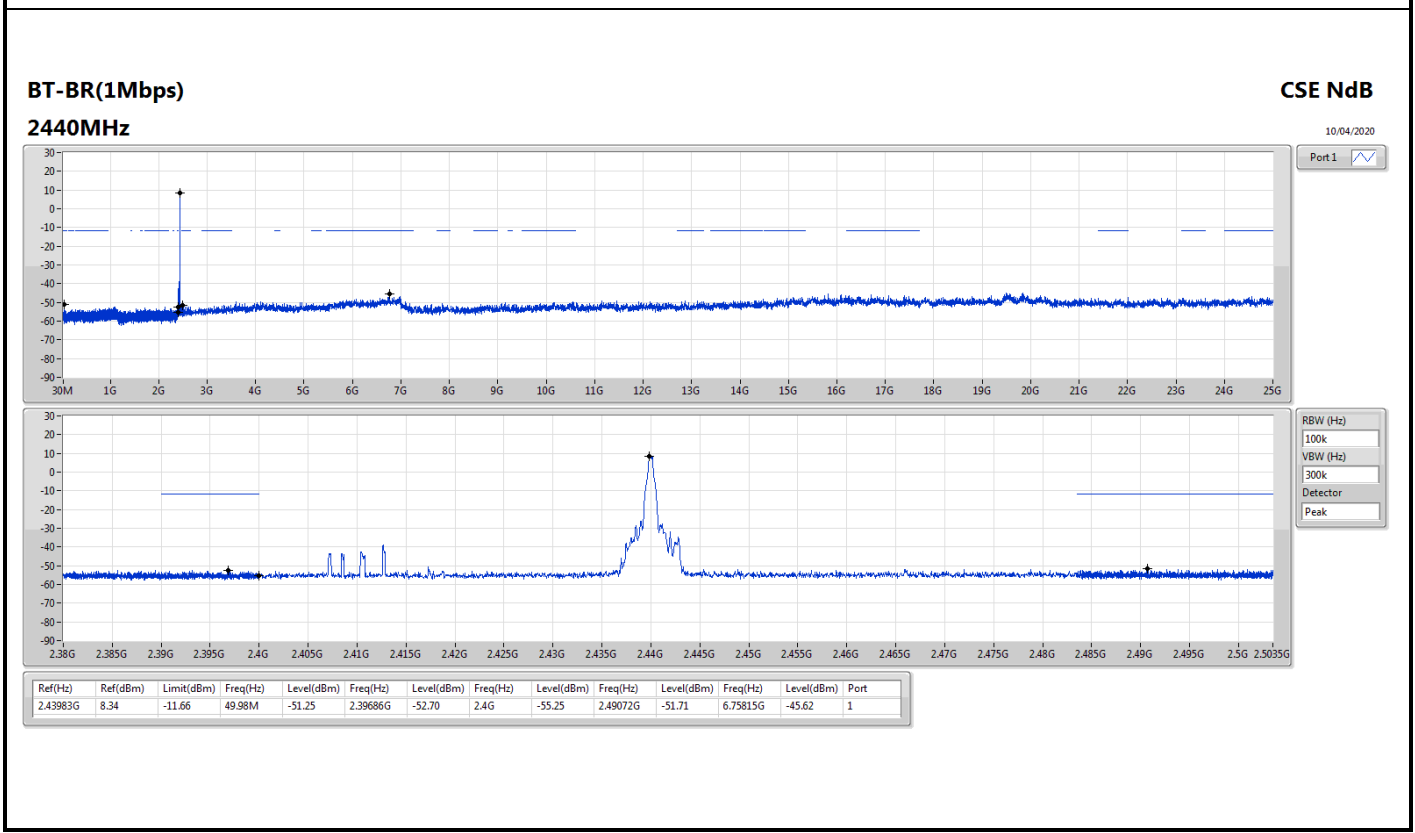
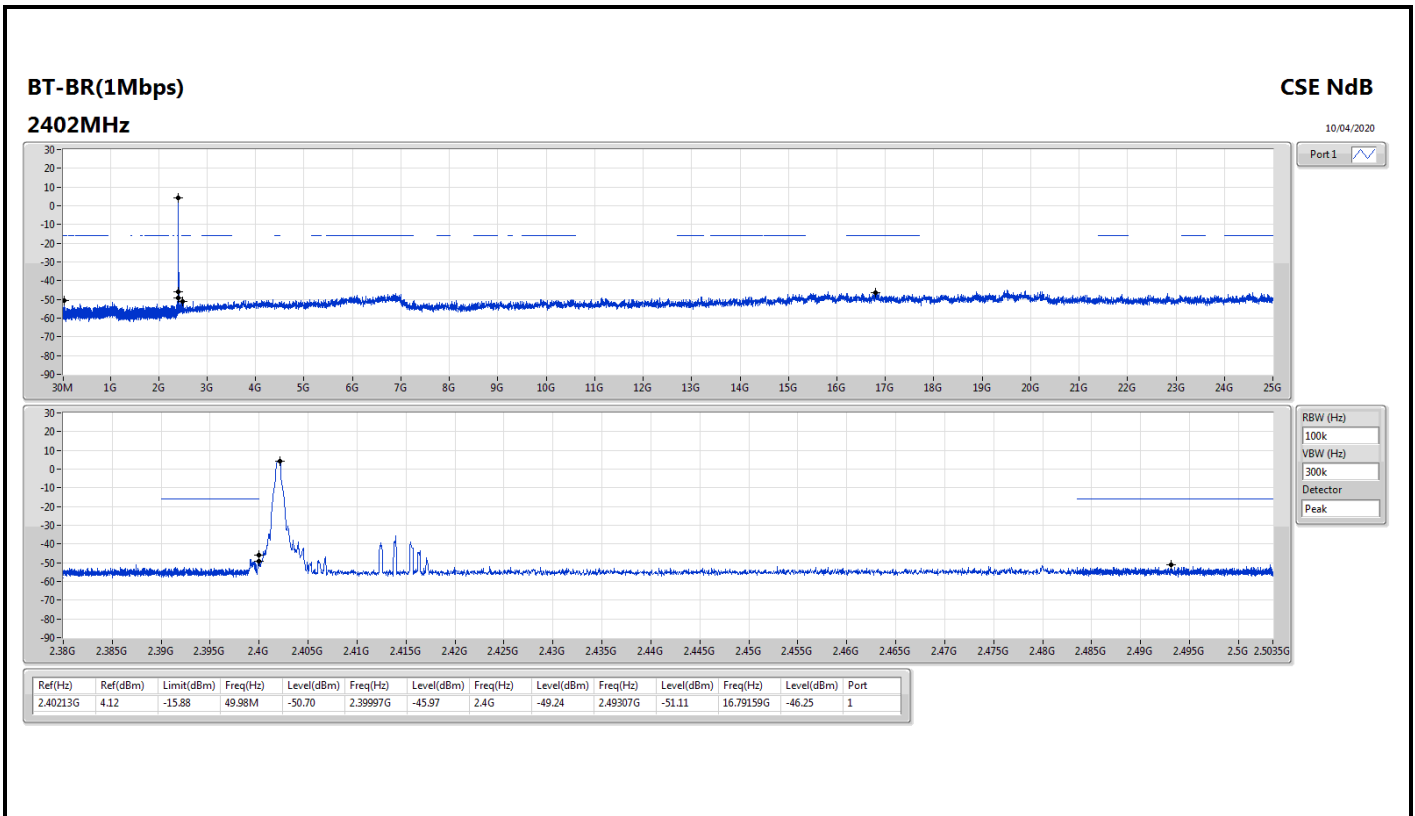
**Summary**

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	2.40213G	4.12	-15.88	49.98M	-50.70	2.39997G	-45.97	2.4G	-49.24	2.49307G	-51.11	16.79159G	-46.25	1
BT-EDR(2Mbps)	Pass	2.40209G	0.94	-19.06	930.34M	-53.16	2.39999G	-47.98	2.4G	-52.67	2.48858G	-52.09	16.54413G	-46.18	1
BT-EDR(3Mbps)	Pass	2.402G	0.27	-19.73	856.91M	-52.44	2.39994G	-48.67	2.4G	-52.33	2.50241G	-51.47	16.84783G	-46.67	1

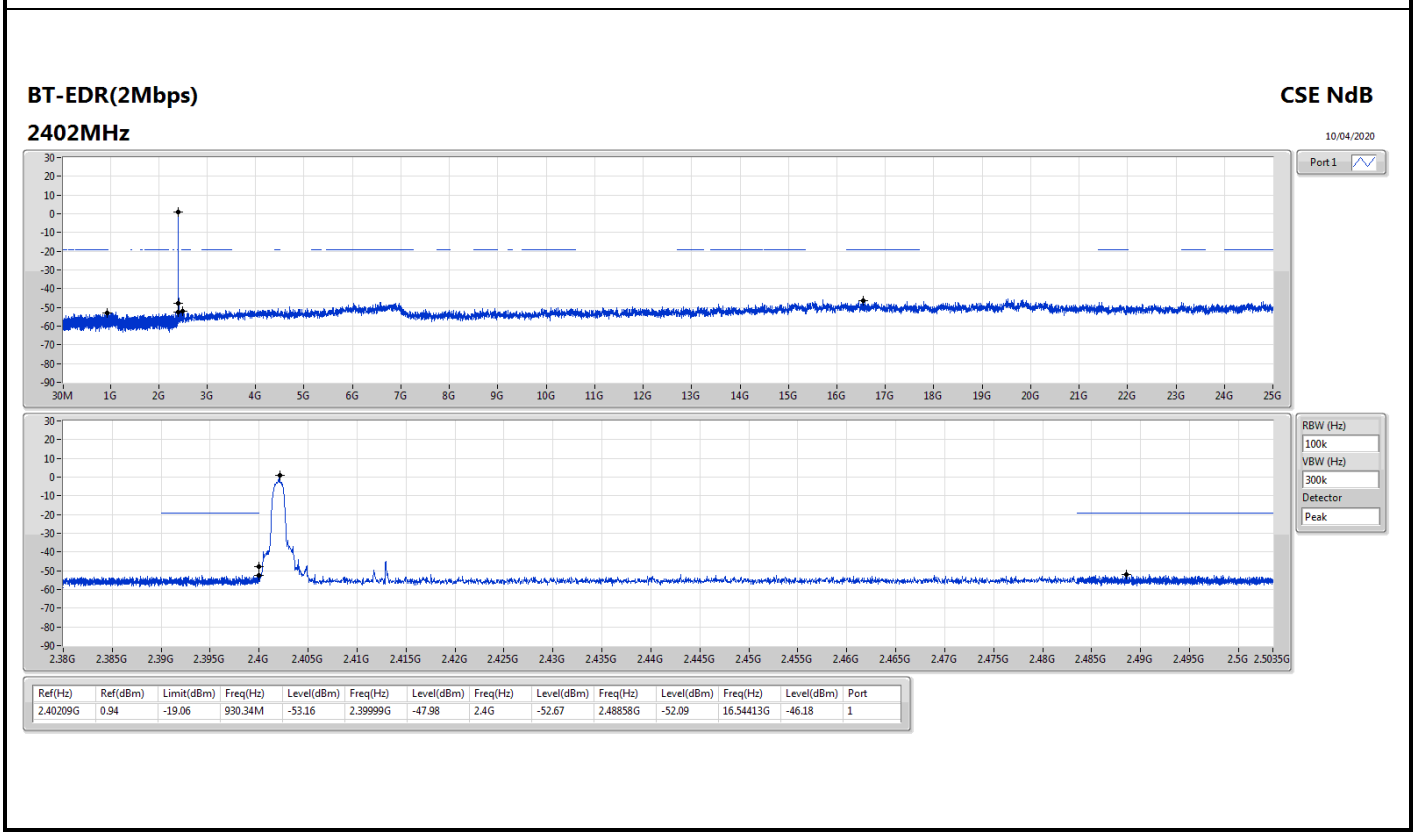
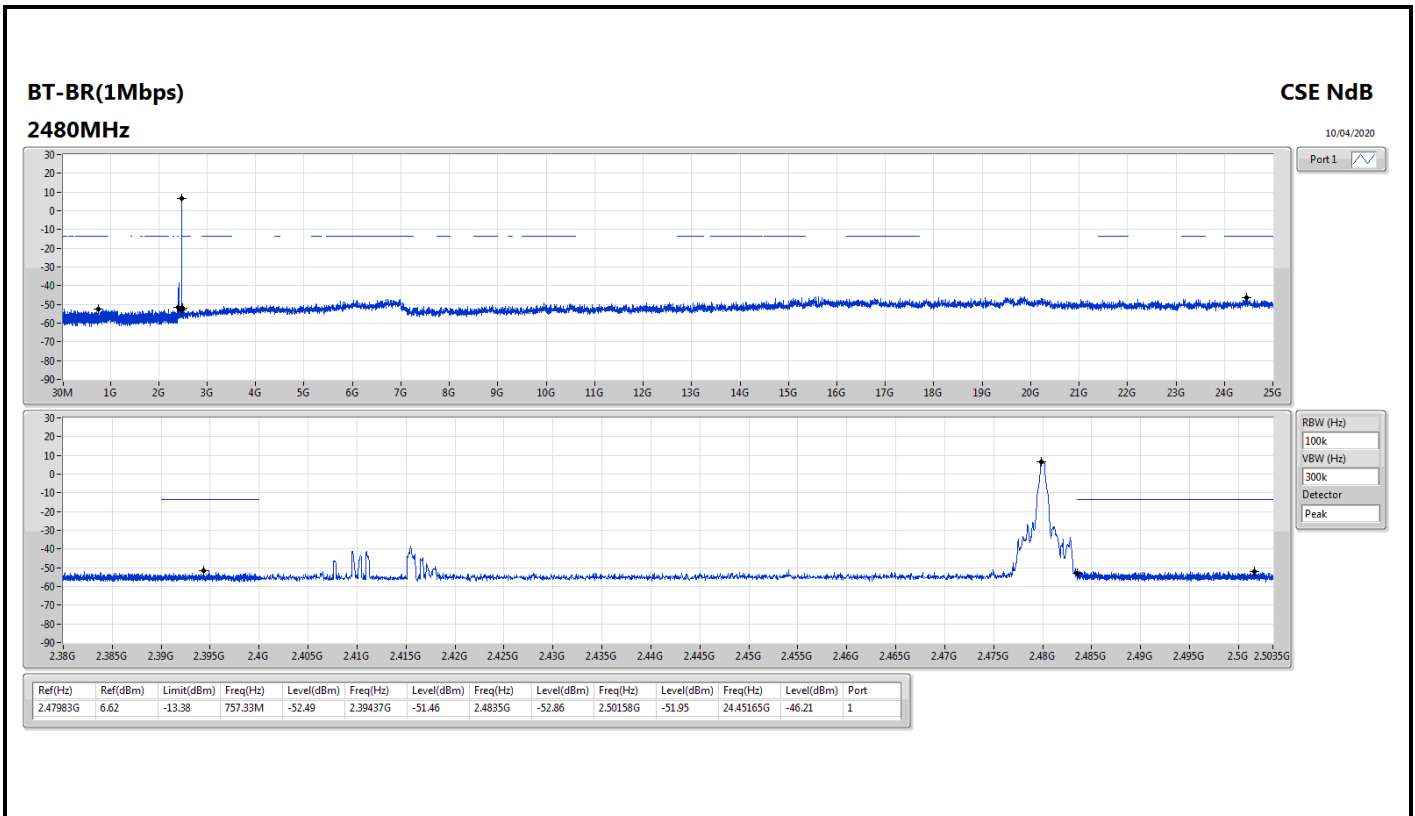


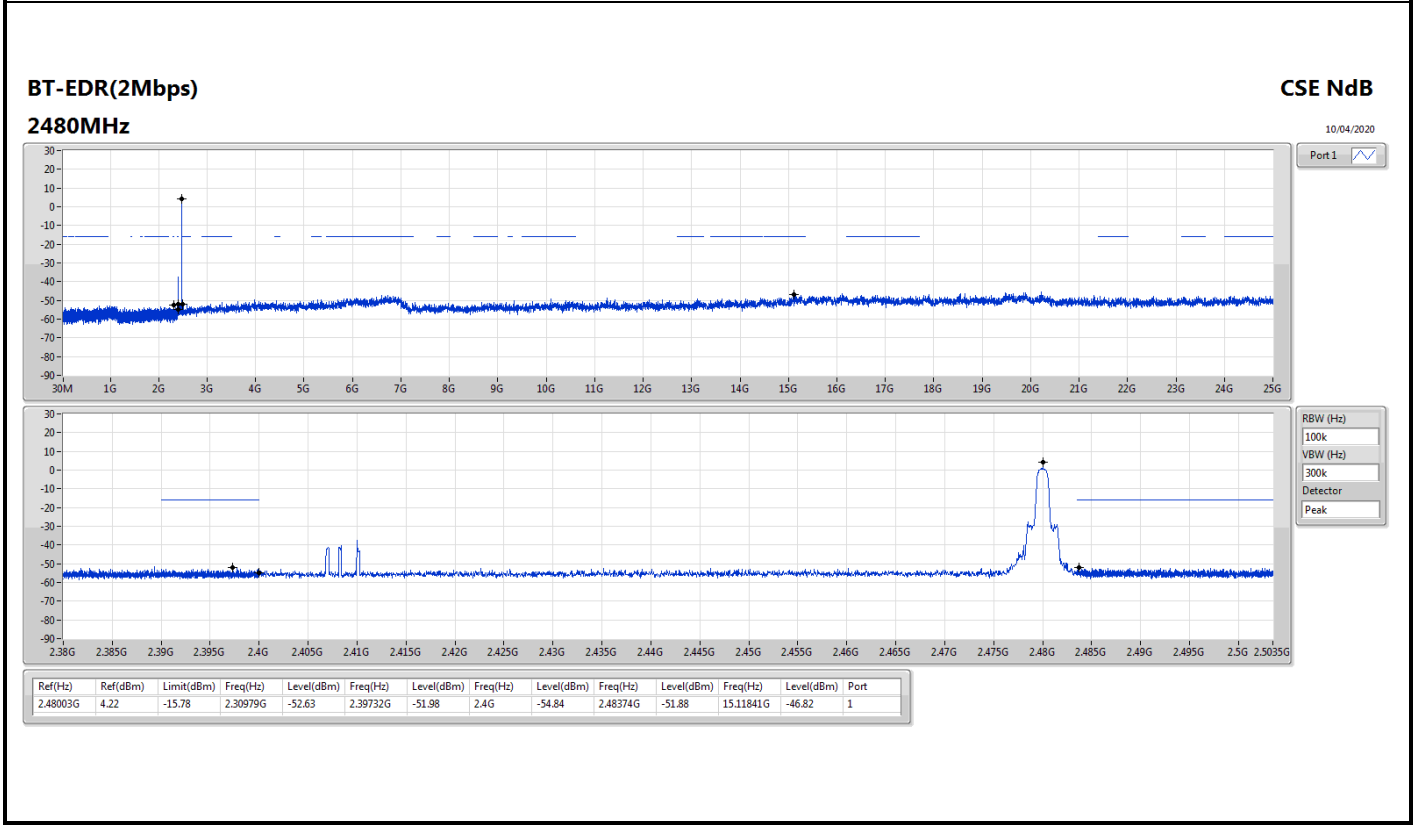
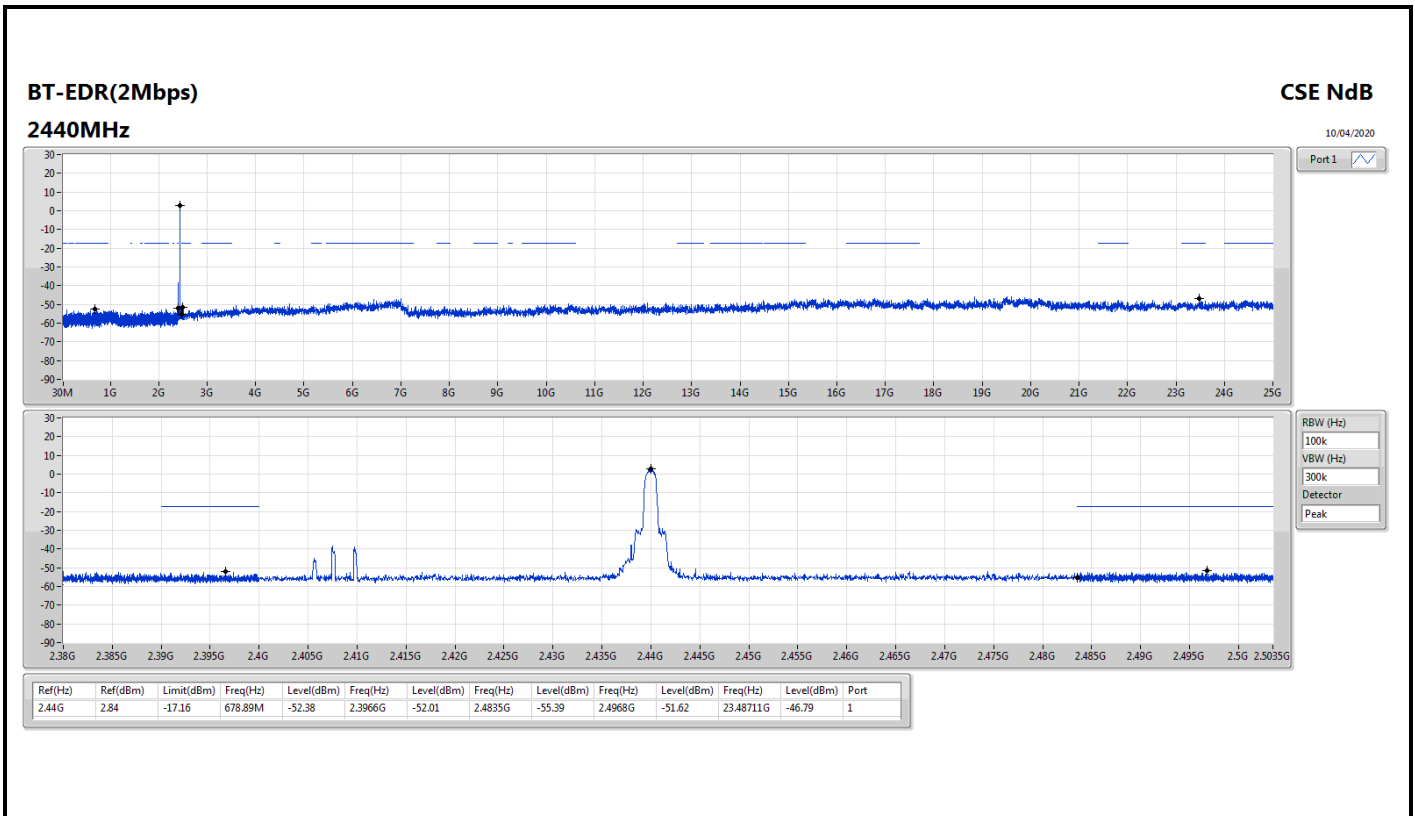
**Result**

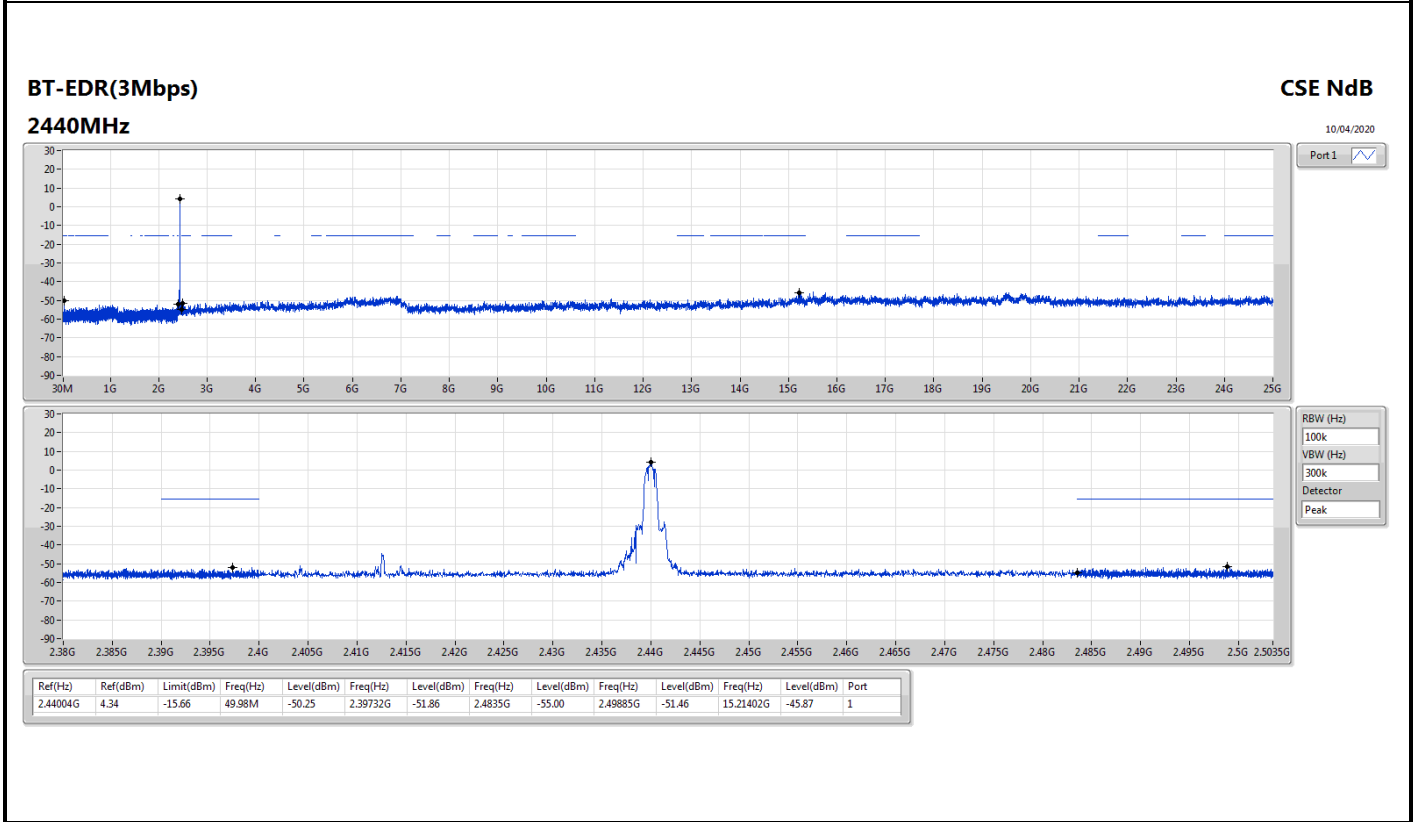
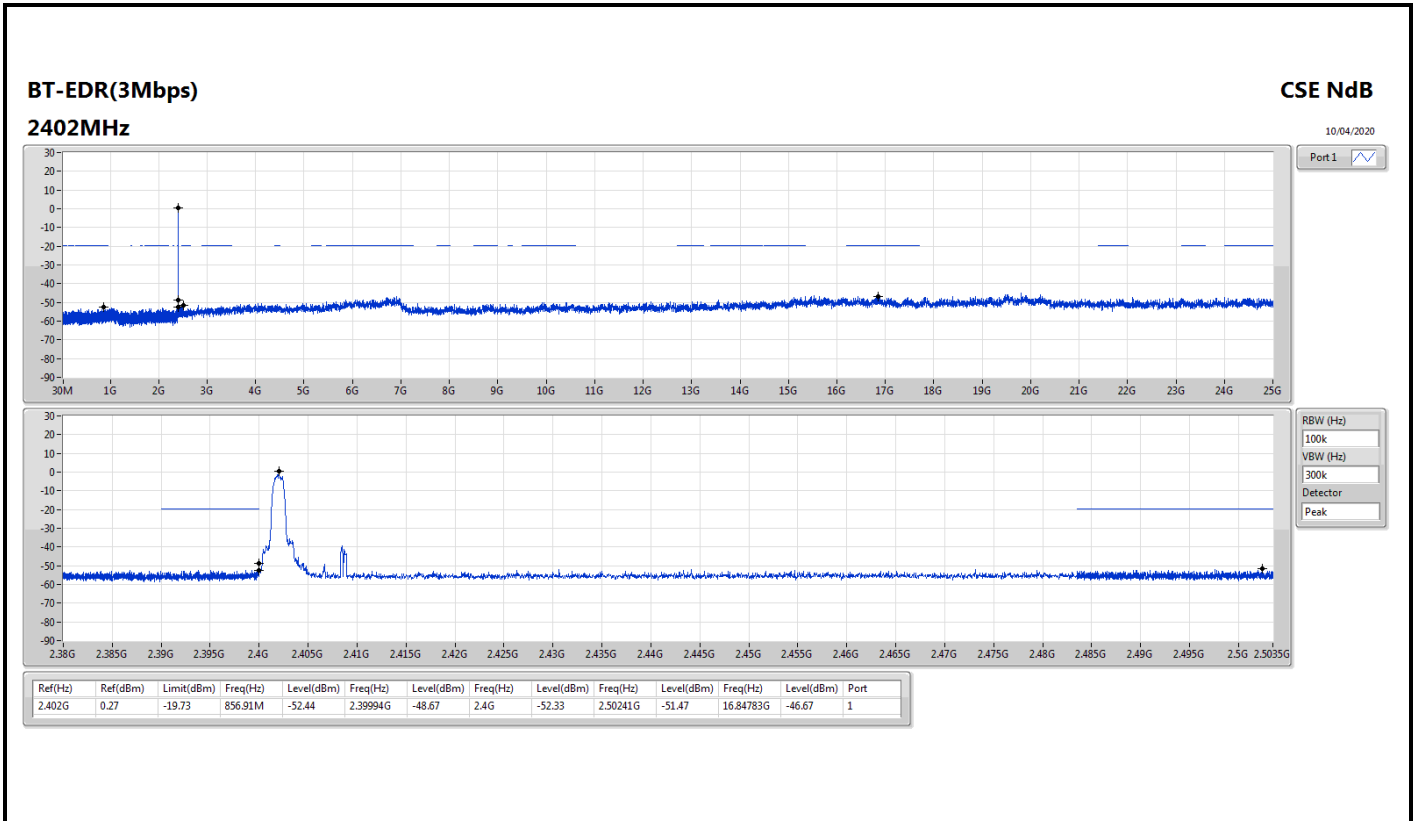
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40213G	4.12	-15.88	49.98M	-50.70	2.39997G	-45.97	2.4G	-49.24	2.49307G	-51.11	16.79159G	-46.25	1
2440MHz	Pass	2.43983G	8.34	-11.66	49.98M	-51.25	2.39686G	-52.70	2.4G	-55.25	2.49072G	-51.71	6.75815G	-45.62	1
2480MHz	Pass	2.47983G	6.62	-13.38	757.33M	-52.49	2.39437G	-51.46	2.4835G	-52.86	2.50158G	-51.95	24.45165G	-46.21	1
BT-EDR(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40209G	0.94	-19.06	930.34M	-53.16	2.39999G	-47.98	2.4G	-52.67	2.48858G	-52.09	16.54413G	-46.18	1
2440MHz	Pass	2.44G	2.84	-17.16	678.89M	-52.38	2.3966G	-52.01	2.4835G	-55.39	2.4968G	-51.62	23.48711G	-46.79	1
2480MHz	Pass	2.48003G	4.22	-15.78	2.30979G	-52.63	2.39732G	-51.98	2.4G	-54.84	2.48374G	-51.88	15.11841G	-46.82	1
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.402G	0.27	-19.73	856.91M	-52.44	2.39994G	-48.67	2.4G	-52.33	2.50241G	-51.47	16.84783G	-46.67	1
2440MHz	Pass	2.44004G	4.34	-15.66	49.98M	-50.25	2.39732G	-51.86	2.4835G	-55.00	2.49885G	-51.46	15.21402G	-45.87	1
2480MHz	Pass	2.47999G	5.18	-14.82	31.47M	-49.72	2.39334G	-51.05	2.4G	-53.87	2.48547G	-51.52	6.94937G	-46.20	1

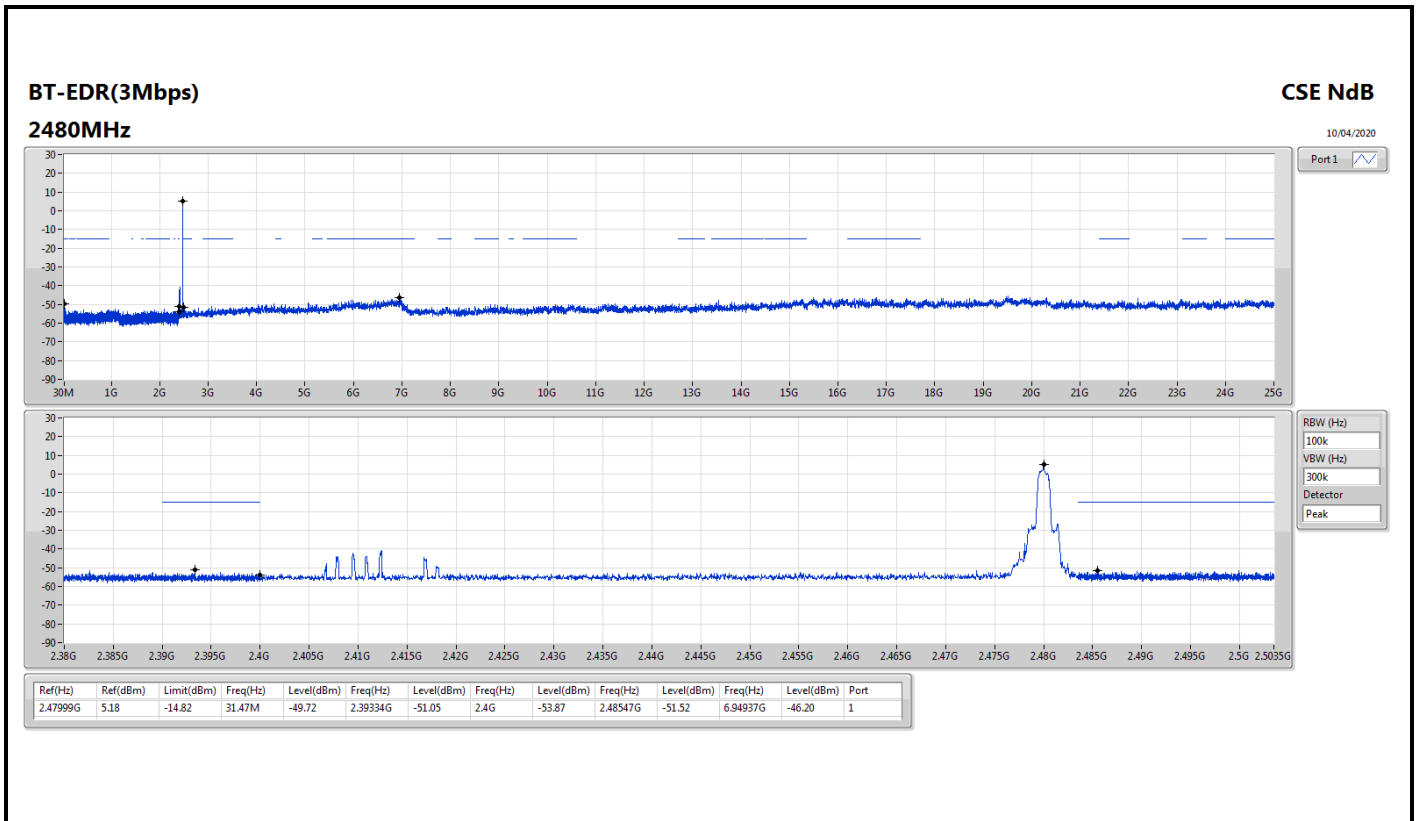










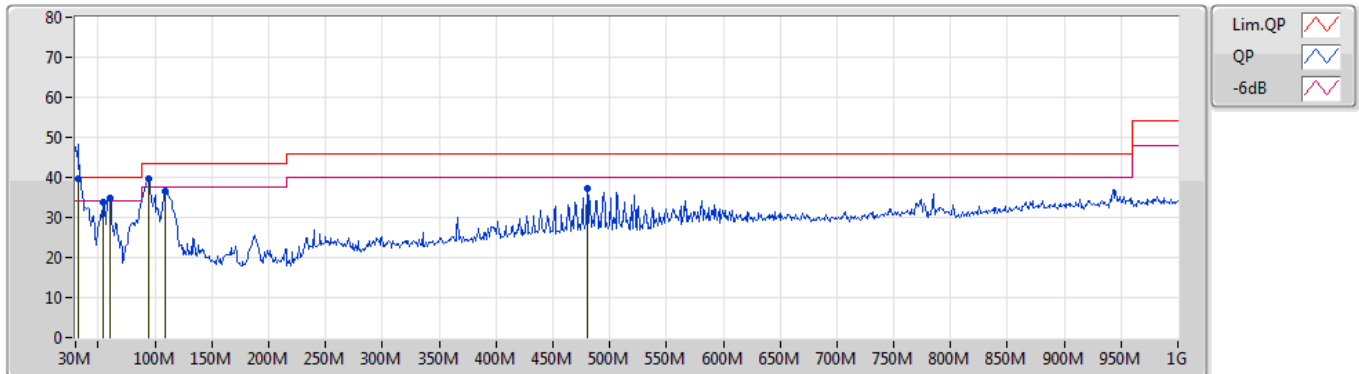




**Summary**

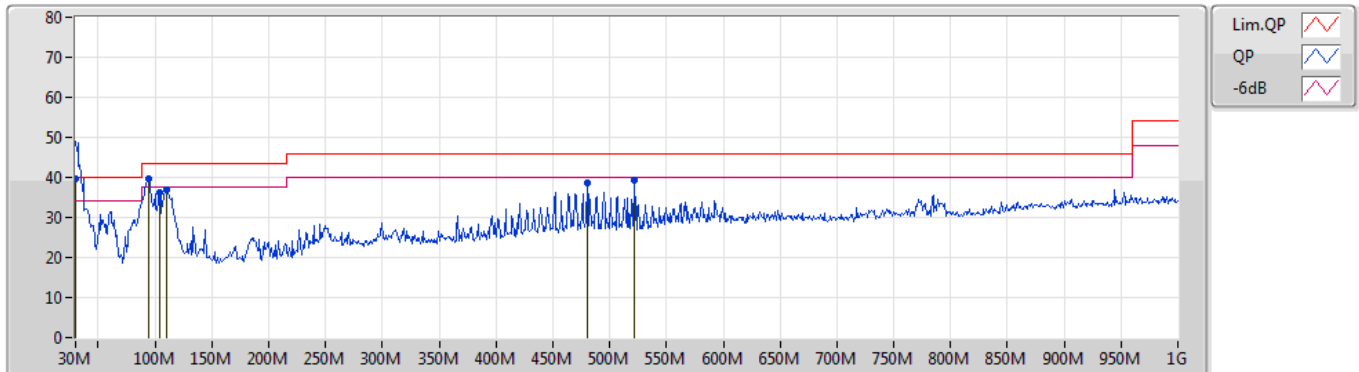
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 6	Pass	QP	30M	39.75	40.00	-0.25	Horizontal

14/05/2020



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
QP	31.94M	39.52	40.00	-0.48	-7.46	3	Vertical	323	2.00	"Worst"	46.98	23.40	1.54	32.40
PK	54.25M	33.89	40.00	-6.11	-18.38	3	Vertical	348	3.00	-	52.27	12.80	1.48	32.66
PK	60.07M	34.74	40.00	-5.26	-18.69	3	Vertical	254	1.00	-	53.43	12.23	1.60	32.52
PK	94.02M	39.61	43.50	-3.89	-14.81	3	Vertical	201	4.00	-	54.42	15.52	2.00	32.33
PK	108.57M	36.65	43.50	-6.85	-12.85	3	Vertical	354	1.00	-	49.50	17.41	2.19	32.45
PK	480.08M	37.25	46.00	-8.75	-4.40	3	Vertical	284	1.25	-	41.65	23.28	4.48	32.16

14/05/2020



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
QP	30M	39.75	40.00	-0.25	-6.64	3	Horizontal	88	3.00	"Worst"	46.39	24.21	1.50	32.35
PK	94.02M	39.67	43.50	-3.83	-14.81	3	Horizontal	45	4.00	-	54.48	15.52	2.00	32.33
PK	103.72M	36.31	43.50	-7.19	-13.28	3	Horizontal	98	2.00	-	49.59	16.98	2.14	32.40
PK	110.51M	36.90	43.50	-6.60	-12.71	3	Horizontal	245	1.25	-	49.61	17.56	2.21	32.48
PK	480.08M	38.63	46.00	-7.37	-4.40	3	Horizontal	162	1.25	-	43.03	23.28	4.48	32.16
PK	521.79M	39.48	46.00	-6.52	-4.19	3	Horizontal	293	4.00	-	43.67	23.41	4.73	32.33



Summary

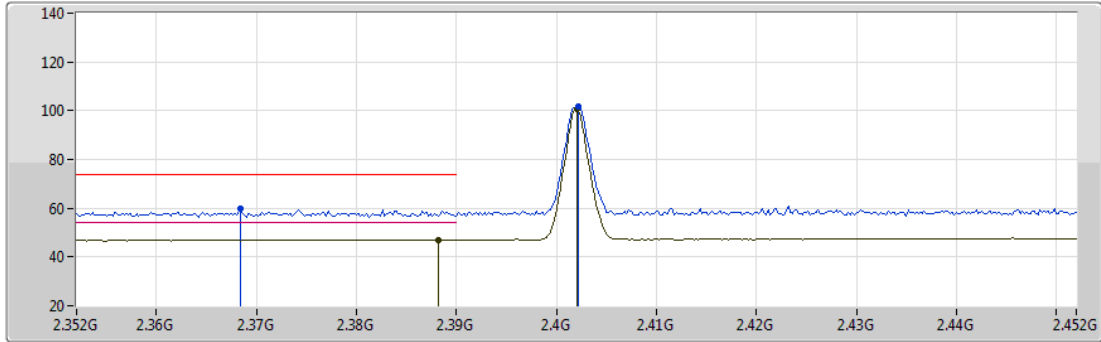
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
BT-BR(1Mbps)	Pass	AV	2.4835G	52.37	54.00	-1.63	3	Horizontal	221	2.90	-



**BT-BR(1Mbps)**

09/04/2020

**2402MHz\_TX**



EUT Z\_1TX  
Setting 63  
03-B-E-2

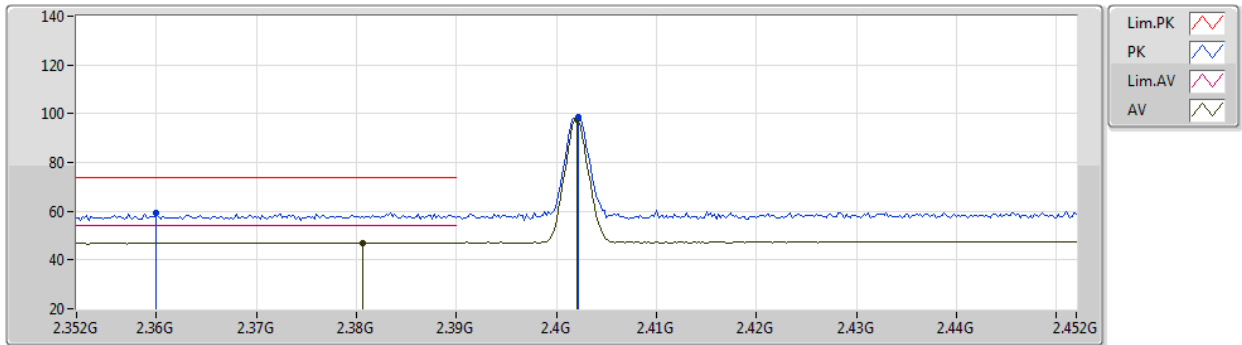
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3684G	59.96	74.00	-14.04	28.00	3	Vertical	353	2.38	-	28.24	3.72	-
AV	2.3882G	47.05	54.00	-6.95	15.04	3	Vertical	353	2.38	-	28.28	3.73	-
PK	2.4022G	101.64	Inf	-Inf	69.59	3	Vertical	353	2.38	-	28.31	3.74	-
AV	2.402G	100.66	Inf	-Inf	68.61	3	Vertical	353	2.38	-	28.31	3.74	-



BT-BR(1Mbps)

09/04/2020

2402MHz\_TX



EUT Z\_1TX  
Setting 63  
03-B-E-2

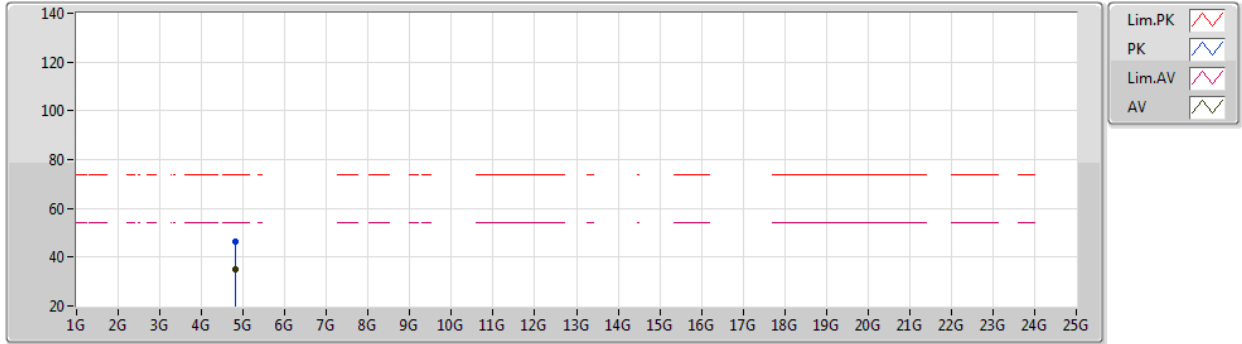
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.36G	59.33	74.00	-14.67	27.39	3	Horizontal	202	2.61	-	28.22	3.72	-
AV	2.3806G	47.15	54.00	-6.85	15.16	3	Horizontal	202	2.61	-	28.26	3.73	-
PK	2.4022G	98.57	Inf	-Inf	66.52	3	Horizontal	202	2.61	-	28.31	3.74	-
AV	2.402G	97.54	Inf	-Inf	65.49	3	Horizontal	202	2.61	-	28.31	3.74	-



**BT-BR(1Mbps)**

09/04/2020

**2402MHz\_TX**



EUT Z\_1TX  
Setting 63  
03-B-E-2

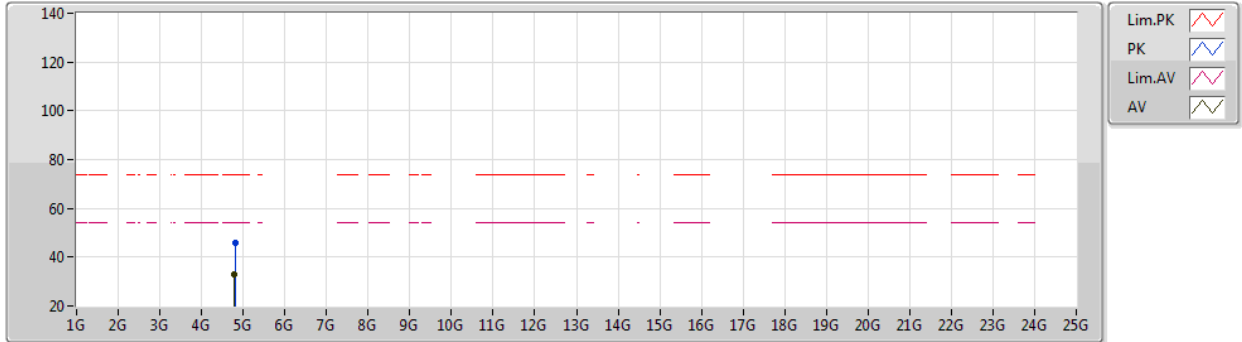
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.80842G	46.47	74.00	-27.53	41.22	3	Vertical	197	1.80	-	33.52	6.56	34.83
AV	4.80392G	34.93	54.00	-19.07	29.70	3	Vertical	197	1.80	-	33.51	6.56	34.84



**BT-BR(1Mbps)**

09/04/2020

**2402MHz\_TX**



EUT Z\_1TX  
Setting 63  
03-B-E-2

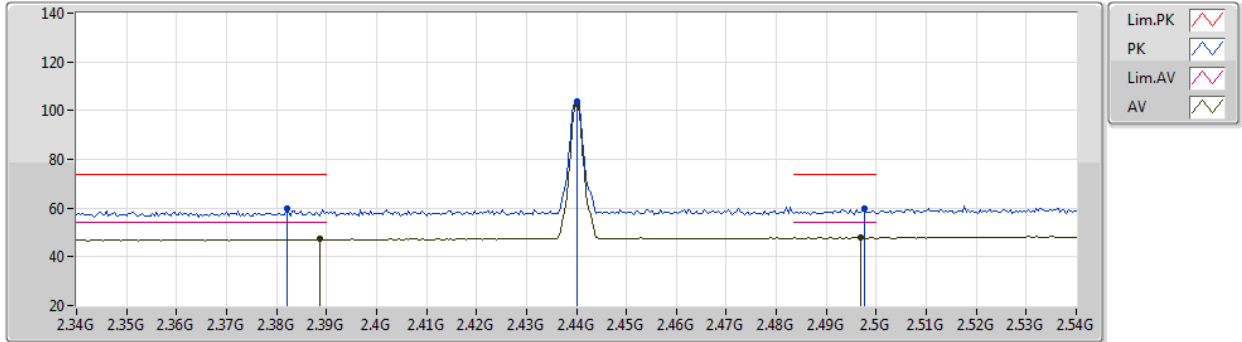
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.80952G	45.94	74.00	-28.06	40.69	3	Horizontal	229	2.24	-	33.52	6.56	34.83
AV	4.79724G	32.93	54.00	-21.07	27.71	3	Horizontal	229	2.24	-	33.50	6.56	34.84



BT-BR(1Mbps)

09/04/2020

2440MHz\_TX



EUT Z\_1TX  
Setting 63  
03-B-E-2

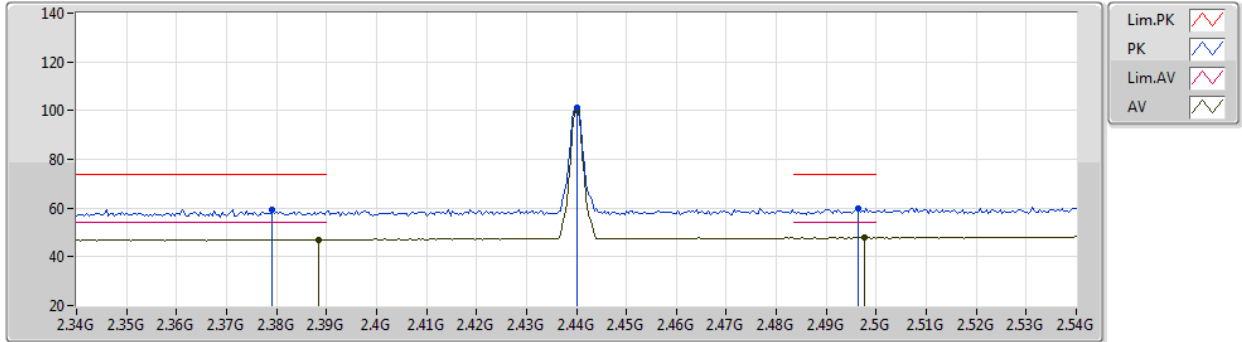
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.382G	59.75	74.00	-14.25	27.76	3	Vertical	343	2.03	-	28.26	3.73	-
AV	2.3888G	47.19	54.00	-6.81	15.18	3	Vertical	343	2.03	-	28.28	3.73	-
PK	2.44G	103.74	Inf	-Inf	71.56	3	Vertical	343	2.03	-	28.42	3.76	-
AV	2.44G	102.86	Inf	-Inf	70.68	3	Vertical	343	2.03	-	28.42	3.76	-
PK	2.4976G	59.62	74.00	-14.38	27.23	3	Vertical	343	2.03	-	28.59	3.80	-
AV	2.4968G	47.92	54.00	-6.08	15.53	3	Vertical	343	2.03	-	28.59	3.80	-



BT-BR(1Mbps)

09/04/2020

2440MHz\_TX



EUT Z\_1TX  
Setting 63  
03-B-E-2

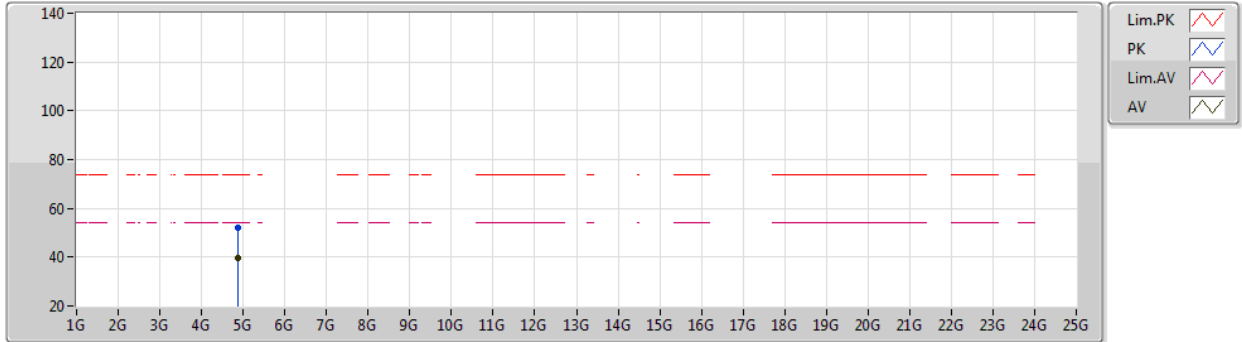
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3792G	59.35	74.00	-14.65	27.36	3	Horizontal	175	2.81	-	28.26	3.73	-
AV	2.3884G	47.14	54.00	-6.86	15.13	3	Horizontal	175	2.81	-	28.28	3.73	-
PK	2.44G	101.34	Inf	-Inf	69.16	3	Horizontal	175	2.81	-	28.42	3.76	-
AV	2.44G	100.31	Inf	-Inf	68.13	3	Horizontal	175	2.81	-	28.42	3.76	-
PK	2.4964G	60.08	74.00	-13.92	27.69	3	Horizontal	175	2.81	-	28.59	3.80	-
AV	2.4976G	47.89	54.00	-6.11	15.50	3	Horizontal	175	2.81	-	28.59	3.80	-



**BT-BR(1Mbps)**

09/04/2020

**2440MHz\_TX**



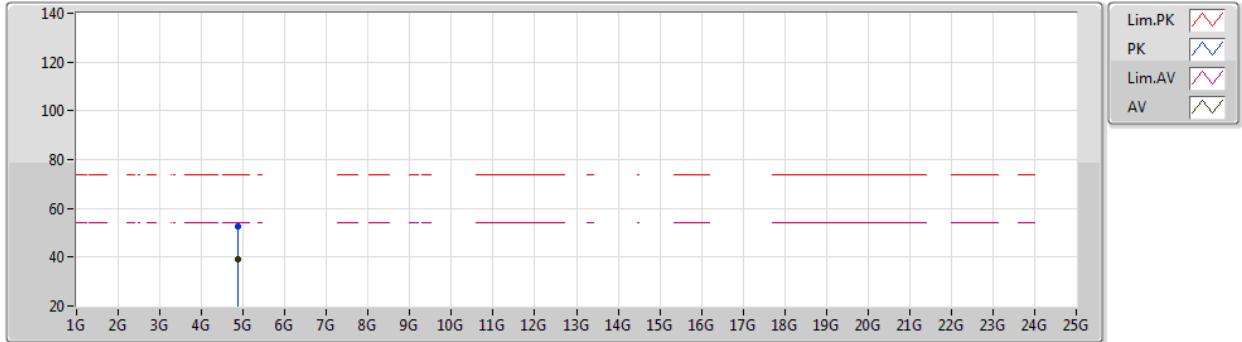
EUT Z\_1TX  
Setting 63  
03-B-E-2

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	4.87502G	52.27	74.00	-21.73	46.82	3	Vertical	123	2.36	-	33.65	6.58	34.78
AV	4.88G	39.78	54.00	-14.22	34.32	3	Vertical	123	2.36	-	33.66	6.58	34.78

**BT-BR(1Mbps)**

09/04/2020

**2440MHz\_TX**



EUT Z\_1TX  
Setting 63  
03-B-E-2

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	4.87154G	52.37	74.00	-21.63	46.93	3	Horizontal	8	1.60	-	33.64	6.58	34.78
AV	4.8869G	38.91	54.00	-15.09	33.42	3	Horizontal	8	1.60	-	33.67	6.59	34.77

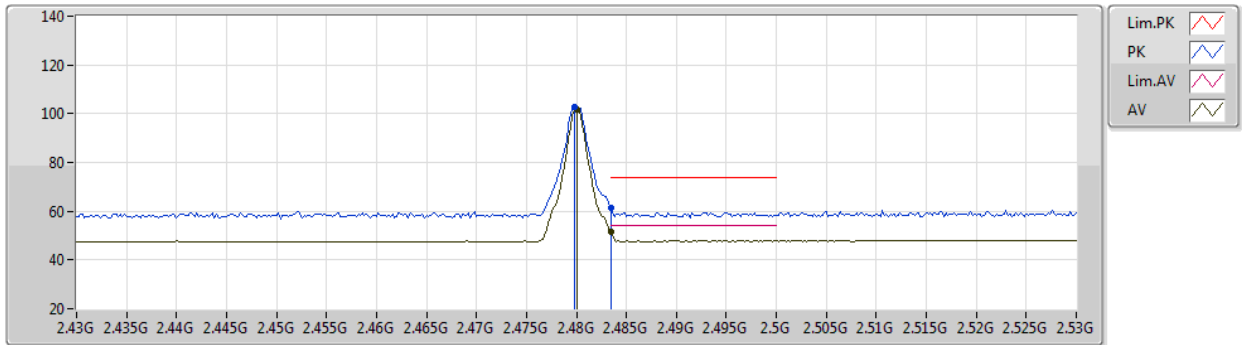




**BT-BR(1Mbps)**

09/04/2020

**2480MHz\_TX**



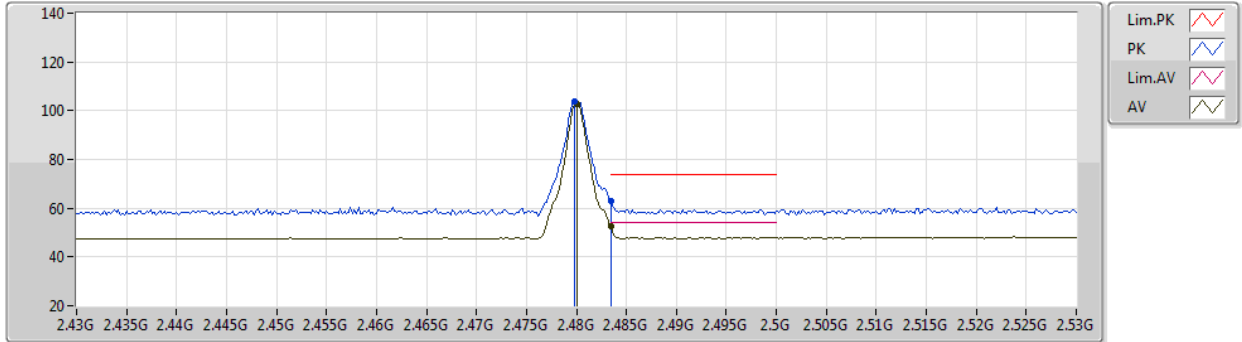
EUT Z\_1TX  
Setting 63  
03-B-E-2

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	102.56	Inf	-Inf	70.23	3	Vertical	352	2.09	-	28.54	3.79	-
AV	2.48G	101.70	Inf	-Inf	69.37	3	Vertical	352	2.09	-	28.54	3.79	-
PK	2.4835G	61.38	74.00	-12.62	29.04	3	Vertical	352	2.09	-	28.55	3.79	-
AV	2.4835G	51.61	54.00	-2.39	19.27	3	Vertical	352	2.09	-	28.55	3.79	-

**BT-BR(1Mbps)**

09/04/2020

**2480MHz\_TX**



EUT Z\_1TX  
Setting 63  
03-B-E-2

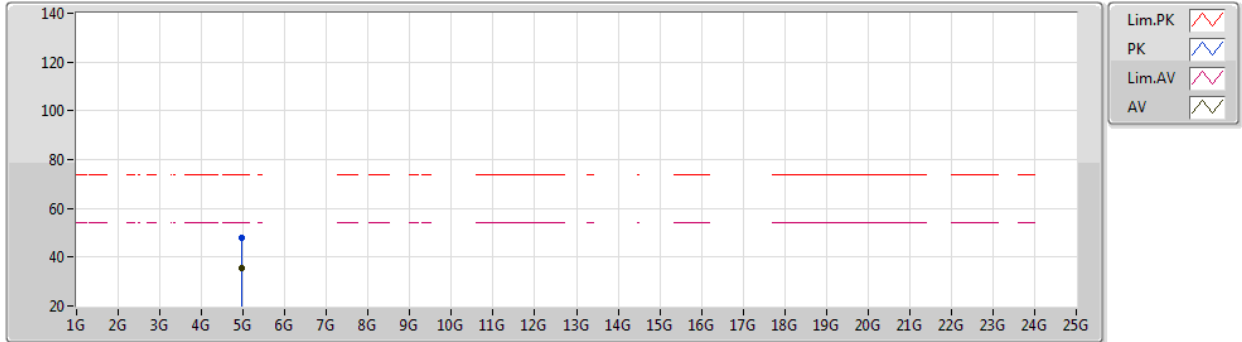
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4798G	103.59	Inf	-Inf	71.26	3	Horizontal	221	2.90	-	28.54	3.79	-
AV	2.48G	102.76	Inf	-Inf	70.43	3	Horizontal	221	2.90	-	28.54	3.79	-
PK	2.4835G	62.76	74.00	-11.24	30.42	3	Horizontal	221	2.90	-	28.55	3.79	-
AV	2.4835G	52.37	54.00	-1.63	20.03	3	Horizontal	221	2.90	-	28.55	3.79	-



**BT-BR(1Mbps)**

09/04/2020

**2480MHz\_TX**



EUT Z\_1TX  
Setting 63  
03-B-E-2

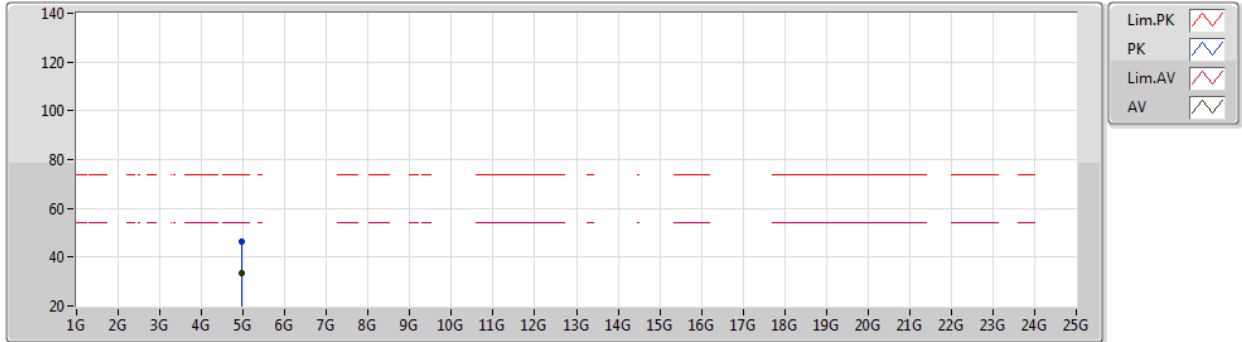
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.96024G	47.97	74.00	-26.03	42.25	3	Vertical	226	1.44	-	33.82	6.61	34.71
AV	4.95994G	35.71	54.00	-18.29	29.99	3	Vertical	226	1.44	-	33.82	6.61	34.71



**BT-BR(1Mbps)**

09/04/2020

**2480MHz\_TX**



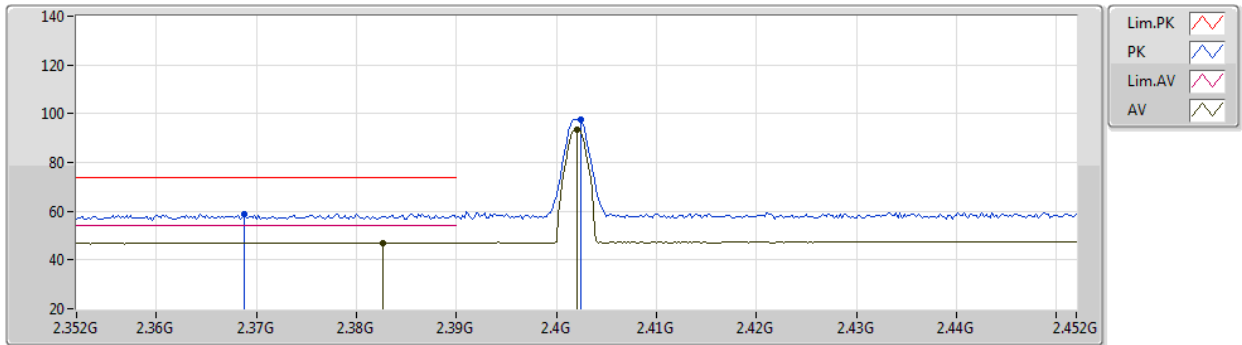
EUT Z\_1TX  
Setting 63  
03-B-E-2

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	4.96756G	46.45	74.00	-27.55	40.70	3	Horizontal	223	2.99	-	33.84	6.61	34.70
AV	4.9672G	33.27	54.00	-20.73	27.53	3	Horizontal	223	2.99	-	33.83	6.61	34.70

**BT-EDR(3Mbps)**

09/04/2020

**2402MHz\_TX**



EUT Z\_1TX  
Setting 63  
03-B-E-2

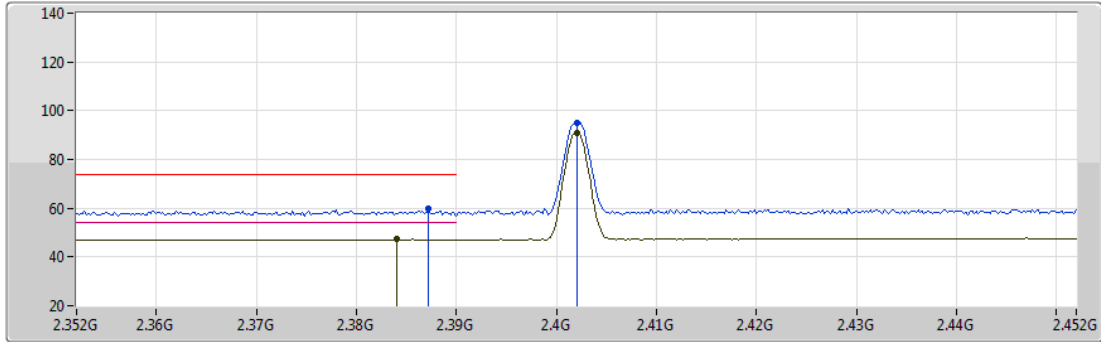
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3688G	59.01	74.00	-14.99	27.05	3	Vertical	347	1.88	-	28.24	3.72	-
AV	2.3826G	47.12	54.00	-6.88	15.12	3	Vertical	347	1.88	-	28.27	3.73	-
PK	2.4024G	97.69	Inf	-Inf	65.64	3	Vertical	347	1.88	-	28.31	3.74	-
AV	2.402G	93.63	Inf	-Inf	61.58	3	Vertical	347	1.88	-	28.31	3.74	-



**BT-EDR(3Mbps)**

09/04/2020

**2402MHz\_TX**



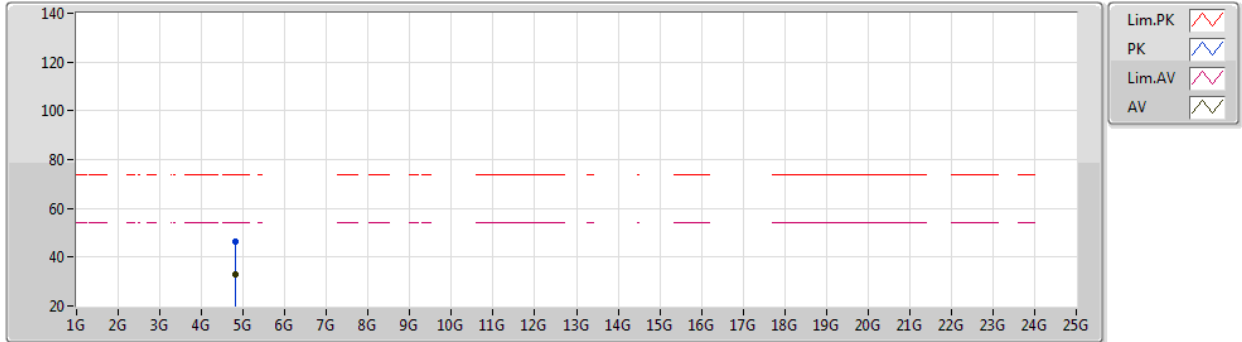
EUT Z\_1TX  
Setting 63  
03-B-E-2

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	2.3872G	59.68	74.00	-14.32	27.68	3	Horizontal	35	1.04	-	28.27	3.73	-
AV	2.384G	47.23	54.00	-6.77	15.23	3	Horizontal	35	1.04	-	28.27	3.73	-
PK	2.402G	95.11	Inf	-Inf	63.06	3	Horizontal	35	1.04	-	28.31	3.74	-
AV	2.402G	90.82	Inf	-Inf	58.77	3	Horizontal	35	1.04	-	28.31	3.74	-

**BT-EDR(3Mbps)**

09/04/2020

**2402MHz\_TX**



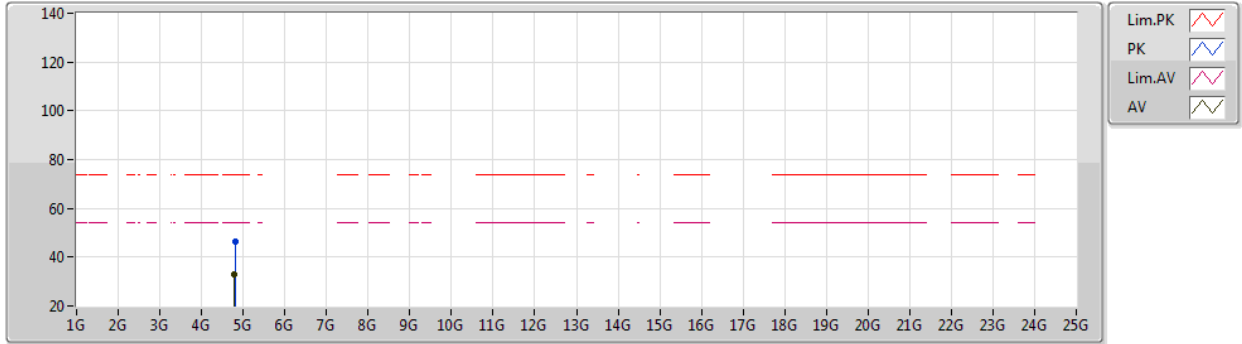
EUT Z\_1TX  
Setting 63  
03-B-E-2

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	4.80094G	46.31	74.00	-27.69	41.09	3	Vertical	193	1.67	-	33.50	6.56	34.84
AV	4.80862G	33.09	54.00	-20.91	27.84	3	Vertical	193	1.67	-	33.52	6.56	34.83

**BT-EDR(3Mbps)**

09/04/2020

**2402MHz\_TX**



EUT Z\_1TX  
Setting 63  
03-B-E-2

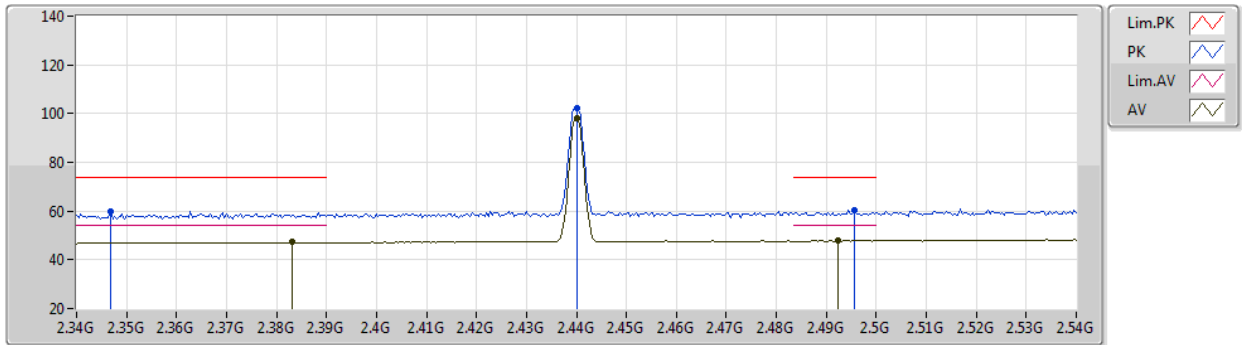
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.80592G	46.45	74.00	-27.55	41.22	3	Horizontal	142	1.72	-	33.51	6.56	34.84
AV	4.79698G	33.05	54.00	-20.95	27.83	3	Horizontal	142	1.72	-	33.50	6.56	34.84



**BT-EDR(3Mbps)**

09/04/2020

**2440MHz\_TX**



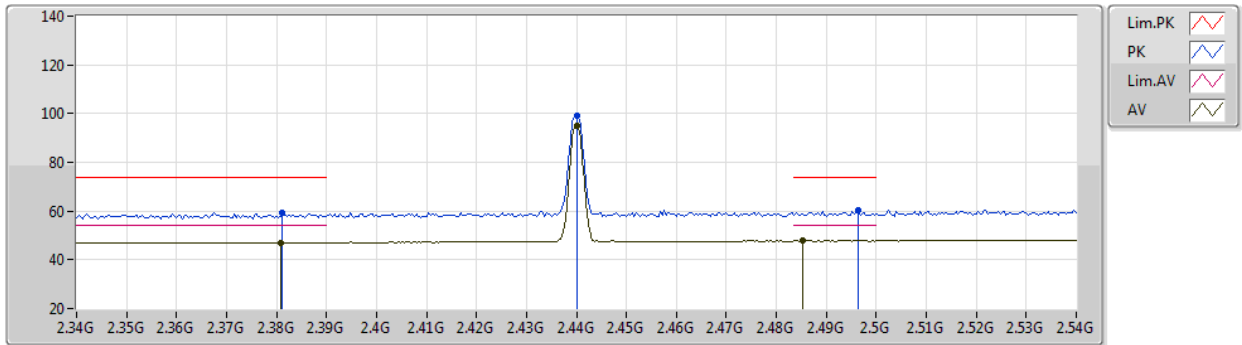
EUT Z\_1TX  
Setting 63  
03-B-E-2

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	2.3468G	59.63	74.00	-14.37	27.73	3	Vertical	341	2.15	-	28.19	3.71	-
AV	2.3832G	47.16	54.00	-6.84	15.16	3	Vertical	341	2.15	-	28.27	3.73	-
PK	2.44G	102.33	Inf	-Inf	70.15	3	Vertical	341	2.15	-	28.42	3.76	-
AV	2.44G	98.22	Inf	-Inf	66.04	3	Vertical	341	2.15	-	28.42	3.76	-
PK	2.4956G	60.24	74.00	-13.76	27.85	3	Vertical	341	2.15	-	28.59	3.80	-
AV	2.4924G	47.97	54.00	-6.03	15.59	3	Vertical	341	2.15	-	28.58	3.80	-

**BT-EDR(3Mbps)**

09/04/2020

**2440MHz\_TX**



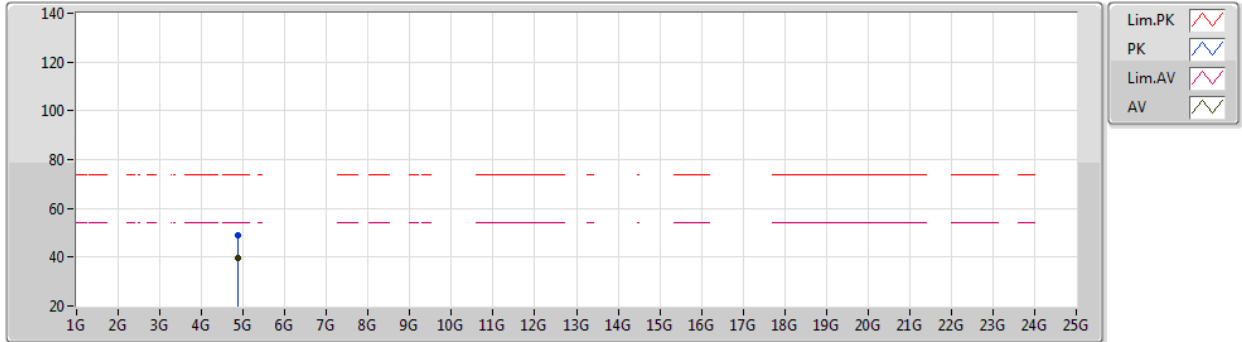
EUT Z\_1TX  
Setting 63  
03-B-E-2

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	59.26	74.00	-14.74	27.27	3	Horizontal	180	2.26	-	28.26	3.73	-
AV	2.3808G	47.08	54.00	-6.92	15.09	3	Horizontal	180	2.26	-	28.26	3.73	-
PK	2.44G	99.03	Inf	-Inf	66.85	3	Horizontal	180	2.26	-	28.42	3.76	-
AV	2.44G	94.89	Inf	-Inf	62.71	3	Horizontal	180	2.26	-	28.42	3.76	-
PK	2.4964G	60.18	74.00	-13.82	27.79	3	Horizontal	180	2.26	-	28.59	3.80	-
AV	2.4852G	47.94	54.00	-6.06	15.59	3	Horizontal	180	2.26	-	28.56	3.79	-

**BT-EDR(3Mbps)**

09/04/2020

**2440MHz\_TX**



EUT Z\_1TX  
Setting 63  
03-B-E-2

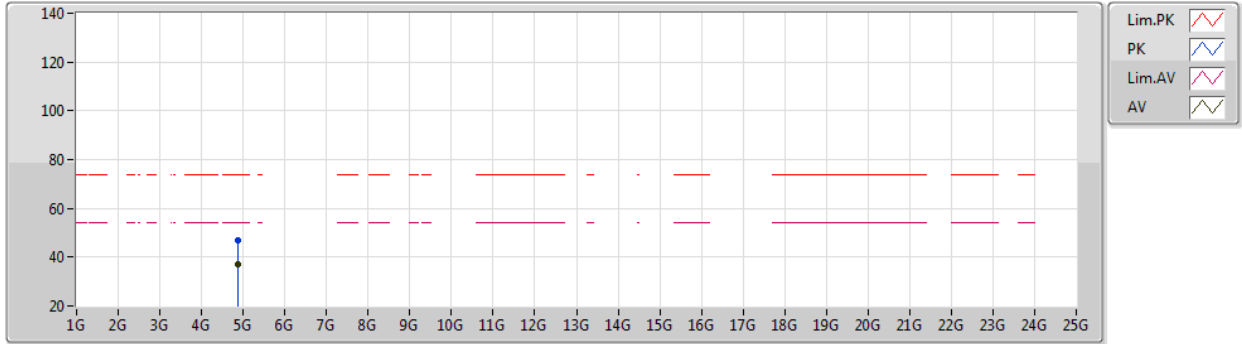
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87492G	49.22	74.00	-24.78	43.77	3	Vertical	346	1.00	-	33.65	6.58	34.78
AV	4.87496G	39.50	54.00	-14.50	34.05	3	Vertical	346	1.00	-	33.65	6.58	34.78



**BT-EDR(3Mbps)**

09/04/2020

**2440MHz\_TX**



EUT Z\_1TX  
Setting 63  
03-B-E-2

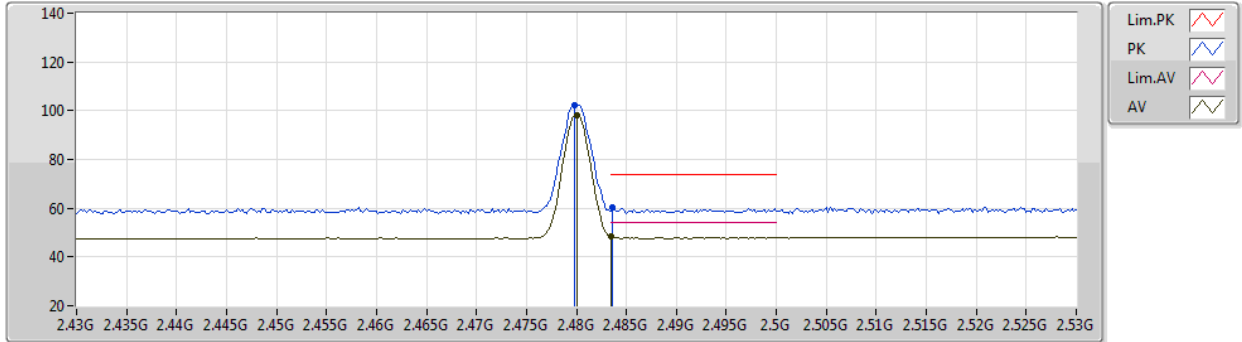
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87484G	47.12	74.00	-26.88	41.67	3	Horizontal	220	2.37	-	33.65	6.58	34.78
AV	4.87496G	37.01	54.00	-16.99	31.56	3	Horizontal	220	2.37	-	33.65	6.58	34.78



**BT-EDR(3Mbps)**

09/04/2020

**2480MHz\_TX**



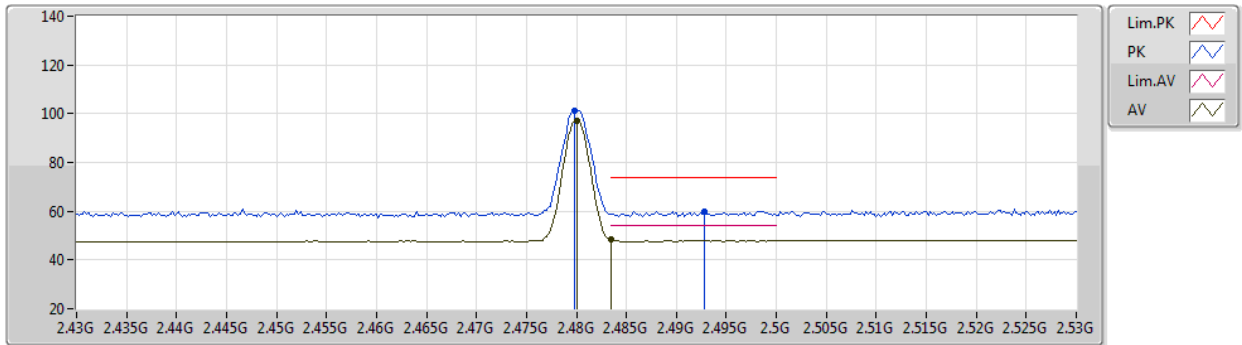
EUT Z\_1TX  
Setting 63  
03-B-E-2

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	102.30	Inf	-Inf	69.97	3	Vertical	349	2.46	-	28.54	3.79	-
AV	2.48G	98.16	Inf	-Inf	65.83	3	Vertical	349	2.46	-	28.54	3.79	-
PK	2.4836G	60.13	74.00	-13.87	27.79	3	Vertical	349	2.46	-	28.55	3.79	-
AV	2.4835G	48.25	54.00	-5.75	15.91	3	Vertical	349	2.46	-	28.55	3.79	-

**BT-EDR(3Mbps)**

09/04/2020

**2480MHz\_TX**



EUT\_Z\_1TX  
Setting 63  
03-B-E-2

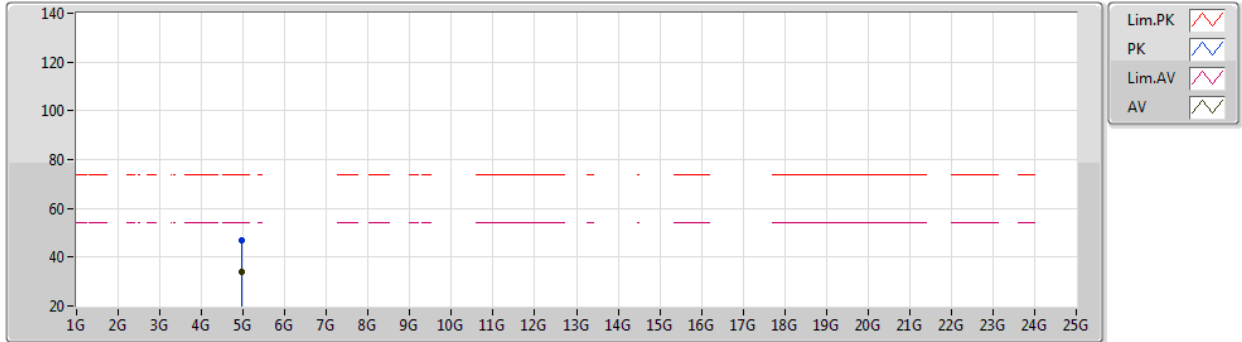
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4798G	101.22	Inf	-Inf	68.89	3	Horizontal	219	2.91	-	28.54	3.79	-
AV	2.48G	97.21	Inf	-Inf	64.88	3	Horizontal	219	2.91	-	28.54	3.79	-
PK	2.4928G	60.03	74.00	-13.97	27.65	3	Horizontal	219	2.91	-	28.58	3.80	-
AV	2.4835G	48.21	54.00	-5.79	15.87	3	Horizontal	219	2.91	-	28.55	3.79	-



**BT-EDR(3Mbps)**

09/04/2020

**2480MHz\_TX**



EUT Z\_1TX  
Setting 63  
03-B-E-2

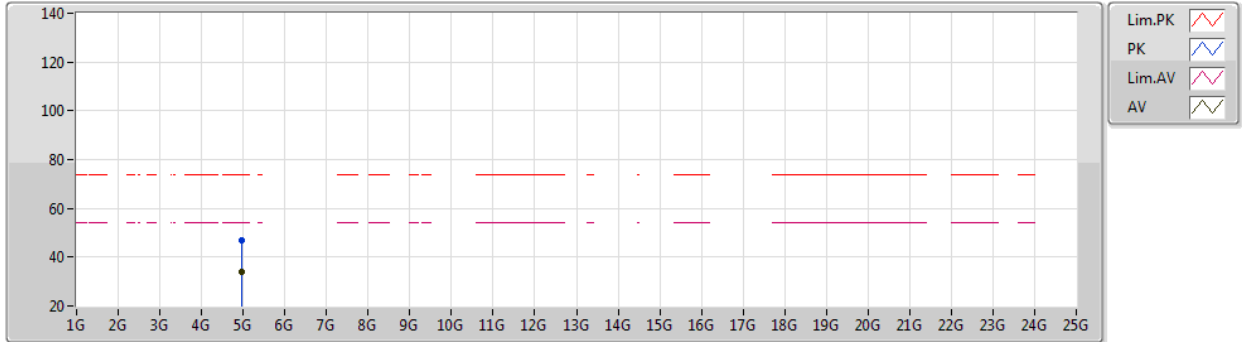
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.95984G	46.82	74.00	-27.18	41.10	3	Vertical	327	1.04	-	33.82	6.61	34.71
AV	4.9592G	34.05	54.00	-19.95	28.33	3	Vertical	327	1.04	-	33.82	6.61	34.71



**BT-EDR(3Mbps)**

09/04/2020

**2480MHz\_TX**



EUT Z\_1TX  
Setting 63  
03-B-E-2

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	4.96012G	46.82	74.00	-27.18	41.10	3	Horizontal	233	2.69	-	33.82	6.61	34.71
AV	4.96G	33.86	54.00	-20.14	28.14	3	Horizontal	233	2.69	-	33.82	6.61	34.71

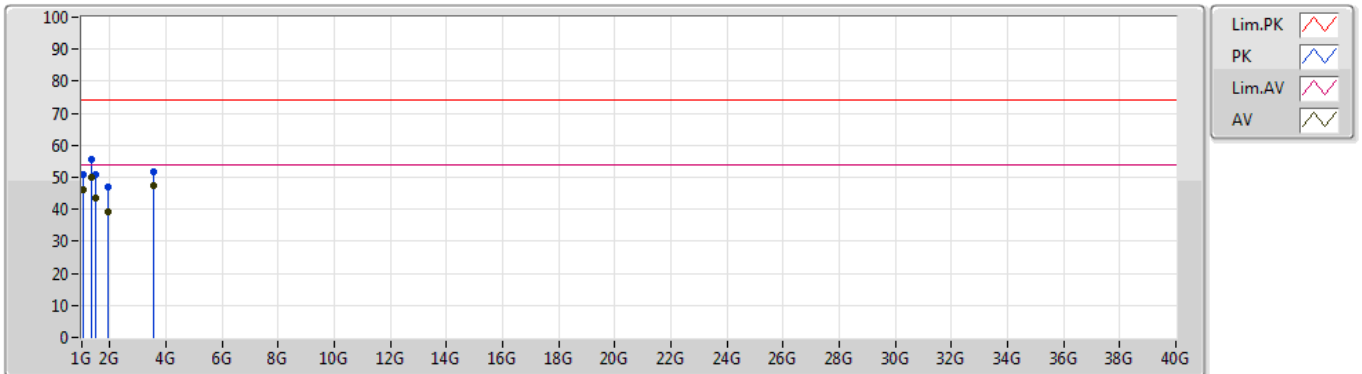




**Summary**

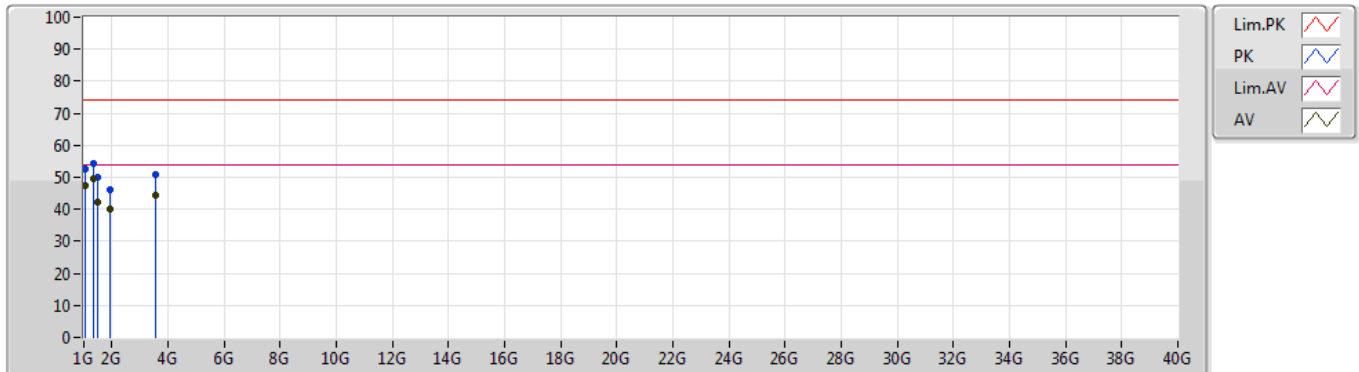
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	1.33521G	50.00	54.00	-4.00	Vertical

14/05/2020



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	1.03881G	50.86	74.00	-23.14	-11.49	3	Vertical	213	1.50	-	62.35	23.68	2.25	37.42
AV	1.0384G	46.00	54.00	-8.00	-11.50	3	Vertical	213	1.50	-	57.50	23.68	2.25	37.43
PK	1.33518G	55.72	74.00	-18.28	-8.31	3	Vertical	185	1.42	-	64.03	25.28	2.55	36.14
AV	1.33521G	50.00	54.00	-4.00	-8.31	3	Vertical	185	1.42	"Worst"	58.31	25.28	2.55	36.14
PK	1.48352G	50.65	74.00	-23.35	-7.32	3	Vertical	152	1.00	-	57.97	25.60	2.68	35.60
AV	1.48357G	43.54	54.00	-10.46	-7.32	3	Vertical	152	1.00	-	50.86	25.60	2.68	35.60
PK	1.91991G	46.77	74.00	-27.23	-4.97	3	Vertical	127	1.57	-	51.74	27.00	3.08	35.05
AV	1.92017G	39.23	54.00	-14.77	-4.97	3	Vertical	127	1.57	-	44.20	27.00	3.08	35.05
PK	3.56057G	51.75	74.00	-22.25	0.72	3	Vertical	213	1.00	-	51.03	30.62	4.22	34.12
AV	3.56037G	47.23	54.00	-6.77	0.72	3	Vertical	213	1.00	-	46.51	30.62	4.22	34.12

14/05/2020



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	1.03849G	52.63	74.00	-21.37	-11.50	3	Horizontal	52	1.28	-	64.13	23.68	2.25	37.43
AV	1.03849G	47.40	54.00	-6.60	-11.50	3	Horizontal	52	1.28	-	58.90	23.68	2.25	37.43
PK	1.33518G	54.17	74.00	-19.83	-8.31	3	Horizontal	59	1.24	-	62.48	25.28	2.55	36.14
AV	1.33521G	49.63	54.00	-4.37	-8.31	3	Horizontal	59	1.24	"Worst"	57.94	25.28	2.55	36.14
PK	1.4836G	49.96	74.00	-24.04	-7.32	3	Horizontal	240	1.00	-	57.28	25.60	2.68	35.60
AV	1.48349G	42.27	54.00	-11.73	-7.32	3	Horizontal	240	1.00	-	49.59	25.60	2.68	35.60
PK	1.92005G	45.94	74.00	-28.06	-4.97	3	Horizontal	141	1.00	-	50.91	27.00	3.08	35.05
AV	1.92015G	40.23	54.00	-13.77	-4.97	3	Horizontal	141	1.00	-	45.20	27.00	3.08	35.05
PK	3.56036G	50.83	74.00	-23.17	0.72	3	Horizontal	151	1.00	-	50.11	30.62	4.22	34.12
AV	3.56035G	44.54	54.00	-9.46	0.72	3	Horizontal	151	1.00	-	43.82	30.62	4.22	34.12