

FCC Radio Test Report

FCC ID : HV4CTL4100WLA
Equipment : Pen Tablet
Brand Name : Wacom
Model Name : CTL-4100WL, CTL-4100WLA
Applicant : Wacom Co., Ltd.
2-510-1 Toyonodai, Kazo-shi, Saitama 349-1148 Japan
Manufacturer : Wacom Co., Ltd.
2-510-1 Toyonodai, Kazo-shi, Saitama 349-1148 Japan
Standard : 47 CFR FCC Part 15.247

The product was received on Sep. 15, 2021, and testing was started from Sep. 27, 2021 and completed on Nov. 02, 2021. We, SPORTON INTERNATIONAL INC. Hsinhua 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. Hsinhua Laboratory, the test report shall not be reproduced except in full.



Approved by: Allen Lin

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, 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 Bandedge	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:
None

Reviewed by: Sam Tsai

Report Producer: Amber Chiu

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.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	-	B861U	PCB antenna	I-PEX	0

Note 1: The EUT has one antenna.

For BT function:

For IEEE 802.15.1 Bluetooth mode (1TX/1RX)

Support diversity function, the Ant. 1 (port 1) was declared to be tested only by customer.

1.1.3 EUT Information

Operational Condition	
EUT Power Type	From AC Adapter / From Host system
EUT Function	<input checked="" type="checkbox"/> Point-to-multipoint <input type="checkbox"/> Point-to-point
Type of EUT	
<input checked="" type="checkbox"/>	Stand-alone
<input type="checkbox"/>	Combined (EUT where the radio part is fully integrated within another device)
	Combined Equipment - Brand Name / Model No.: ...
<input type="checkbox"/>	Plug-in radio (EUT intended for a variety of host systems)
	Host System - Brand Name / Model No.: ...
<input type="checkbox"/>	Other:



1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) \geq 1/T
BT-BR(1Mbps)	0.738	1.32	2.876m	1k
BT-EDR(2Mbps)	0.739	1.31	2.881m	1k
BT-EDR(3Mbps)	0.74	1.31	2.883m	1k

Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.

1.1.5 Table for Multiple Listing

The model names in the following table are all refer to the identical product.

Model Name	Description
CTL-4100WL, CTL-4100WLA	All the models are identical, the different model served as marketing strategy.

1.2 Testing Applied Standards

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

- ◆ 47 CFR FCC Part 15
- ◆ ANSI C63.10-2013

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

- ◆ KDB 558074 D01 v05r02
- ◆ KDB 414788 D01 v01r01

1.3 Testing Location Information

Test Lab. : Sporton International Inc. Hsinhua Laboratory				
<input checked="" type="checkbox"/>	Hsinhua (TAF: 3785)	ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)		
		TEL: 886-3-327-3456	FAX: 886-3-327-0973	
Test site Designation No. TW3785 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Daniel Lin	20.1~23.9°C / 54~62%	01/Oct/2021
RF Conducted	TH06-HY	Johnny Yu	20.1~26.9°C / 50~60%	27/Sep/2021~02/Nov/2021
<input checked="" type="checkbox"/>	Wen 33rd.St. (TAF: 3785)	ADD: No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)		
		TEL: 886-3-318-0787	FAX: 886-3-318-0287	
Test site Designation No. TW0008 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
Radiated	03CH09-HY	Daniel Hsu	23.3~23.6°C / 55~56%	29/Sep/2021~30/Sep/2021

1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	0.9 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	2.4 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.0 dB	Confidence levels of 95%
Temperature	0.41 °C	Confidence levels of 95%
Humidity	3.4 %	Confidence levels of 95%



2 Test Configuration of EUT




2.1 Test Channel Mode

Test Software Version	Airoha.Tool.Kit_V1.6.3
Mode	Power Setting
BT-BR(1Mbps)	-
2402MHz	54
2440MHz	54
2480MHz	54
BT-EDR(2Mbps)	-
2402MHz	61
2440MHz	61
2480MHz	61
BT-EDR(3Mbps)	-
2402MHz	61
2440MHz	61
2480MHz	61

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	CTX
1	USB Mode

The Worst Case Mode for Following Conformance Tests	
Tests Item	20dB Bandwidth Carrier Frequency Separation Maximum Conducted Output Power Number of Hopping Frequencies Hopping Bandedge Time of Occupancy (Dwell Time) Emissions in Non-restricted Frequency Bands
Test Condition	Conducted measurement at transmit chains <input checked="" type="checkbox"/> Non-adaptive frequency hopping systems (Non-AFH) <input type="checkbox"/> adaptive frequency hopping systems (AFH)

The Worst Case Mode for Following Conformance Tests			
Tests Item	Emissions in Restricted Frequency Bands		
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.		
Operating Mode < 1GHz	CTX		
1	USB Mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT	V		

2.3 Accessories

Accessories				
Battery	Brand Name	Wacom	Model Name	PR-234385G
	Manufacturer	TCL Hyperpower Batteries	SN	-
	Power Rating	3.8 Vdc, 1260 mAh		
Touch Pen	Brand Name	Wacom	Model Name	LP-1100
Micro USB Cable	Brand Name	Wacom	Model Name	STJ-A393
	Signal line	1.5 meter, Shielded , w/o ferrite core		

Reminder: Regarding to more detail and other information, please refer to user manual.

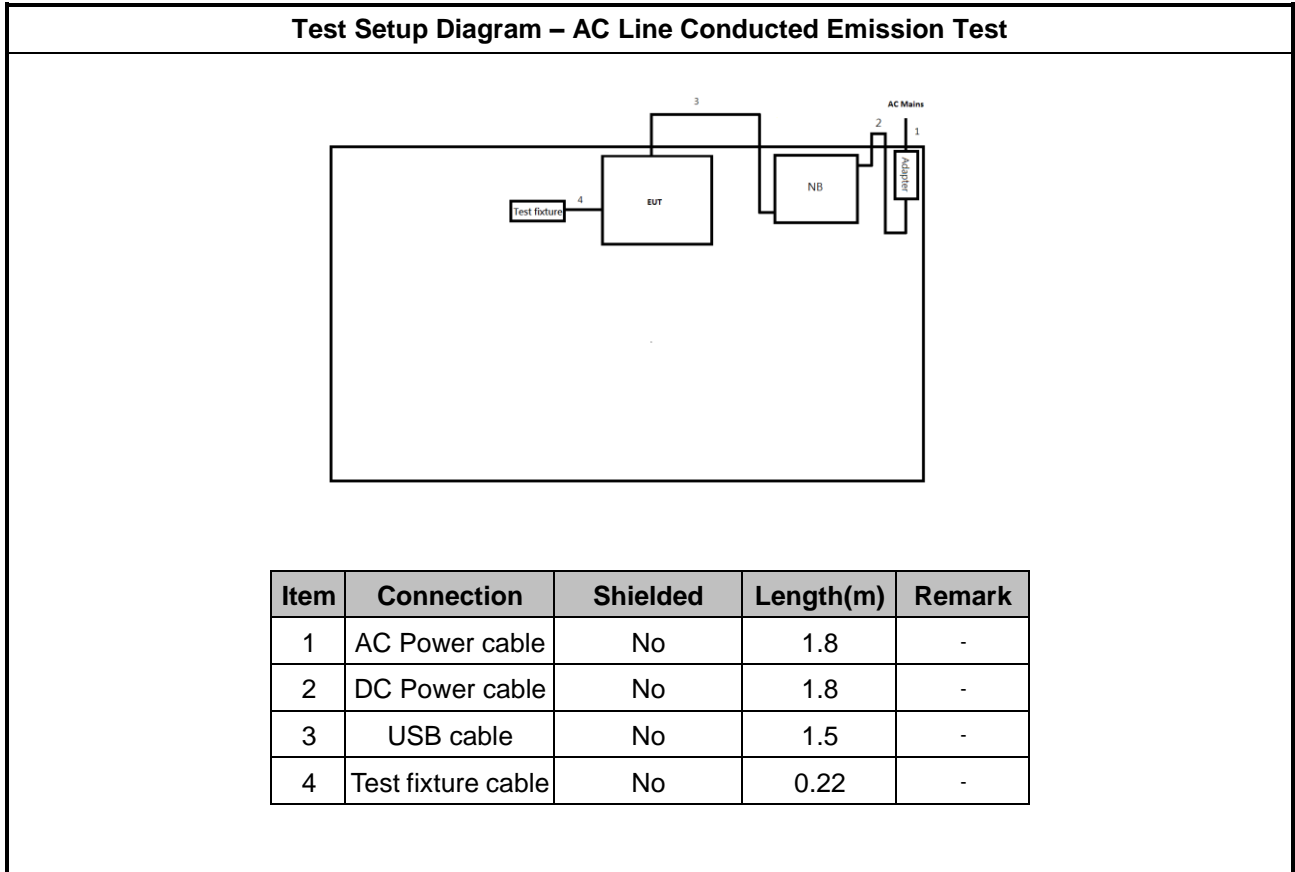
2.4 Support Equipment

Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	HP	HSTNN-Q85C	-	-
2	Adapter for NB	HP	PPP012L-E	-	-
3	Test fixture	-	-	-	Provided by Customer
4	Test fixture	-	-	-	Provided by Customer

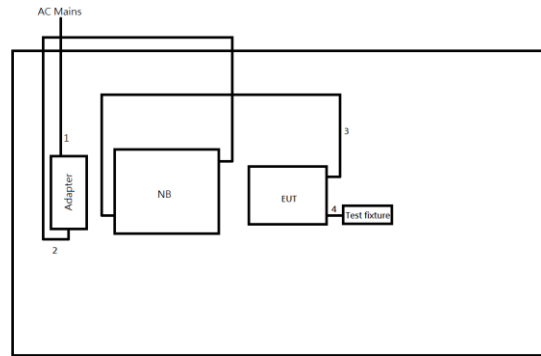
Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Fixture	-	-	-	Provided by Customer
2	Notebook	Dell	E5540	-	-

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	HP	HSTNN-Q85C	-	-
2	Adapter for NB	HP	PPP012L-E	-	-
3	Test fixture	-	-	-	Provided by Customer

2.5 Test Setup Diagram



Test Setup Diagram - Radiated Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	DC Power cable	No	1.5	-
3	Micro USB cable	Yes	1.5	-
4	Test fixture cable	No	0.15	-



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

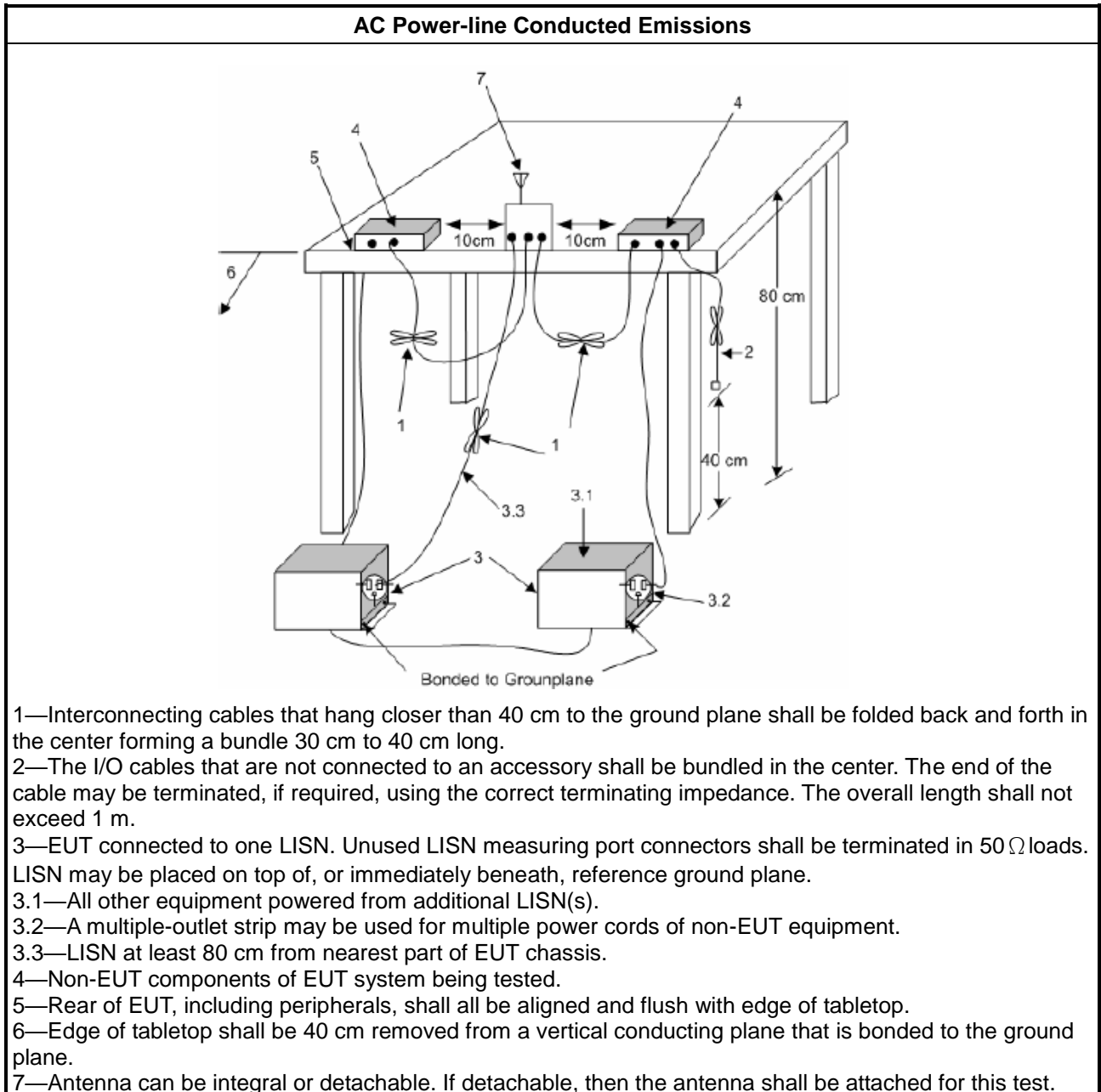
Test Method
▪ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) +LISN(LISN Factor) + CL(Cable Loss) + AT(Attenuator).

3.1.5 Test Setup



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	
<ul style="list-style-type: none"> ▪ 2400-2483.5 MHz Band: 	
	<ul style="list-style-type: none"> ▪ $N \geq 75$ and $ChS \geq MAX$ (20 dB bandwidth, 25 kHz).
	<ul style="list-style-type: none"> ▪ $75 > N \geq 15$ and $ChS \geq MAX$ (20 dB bandwidth 2/3,25 kHz).
N: Number of Hopping Frequencies; ChS: Hopping Channel Separation	

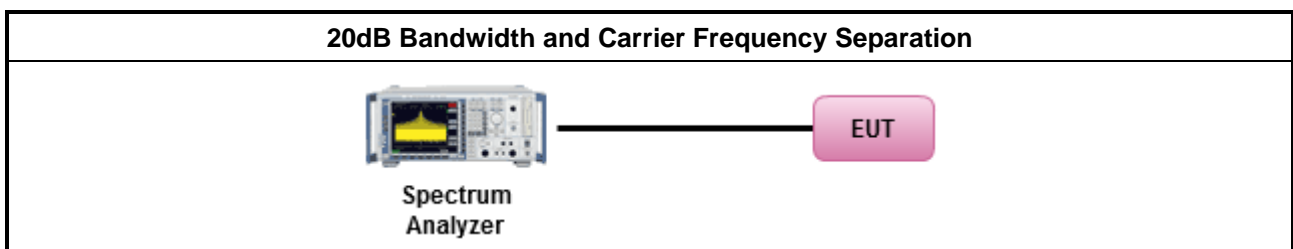
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method
<ul style="list-style-type: none"> ▪ Refer as ANSI C63.10-2013, clause 6.9.2 for 20 dB bandwidth measurement.
<ul style="list-style-type: none"> ▪ 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"> 2400-2483.5 MHz Band: 	
	<ul style="list-style-type: none"> $N \geq 75$; Power 30dBm; EIRP 36dBm
	<ul style="list-style-type: none"> $75 > N \geq 15$; Power 21dBm; EIRP 27dBm
N: Number of Hopping Frequencies	

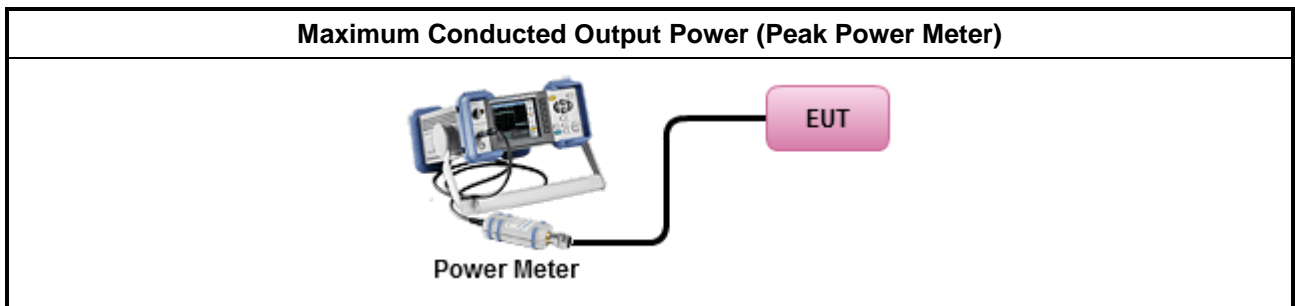
3.3.2 Measuring Instruments

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"> 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	
<ul style="list-style-type: none"> ▪ 2400-2483.5 MHz Band: 	
	<ul style="list-style-type: none"> ▪ $N \geq 75$ and $ChS \geq MAX$ (20 dB bandwidth, 25 kHz).
	<ul style="list-style-type: none"> ▪ $75 > N \geq 15$ and $ChS \geq MAX$ (20 dB bandwidth 2/3, 25 kHz).
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

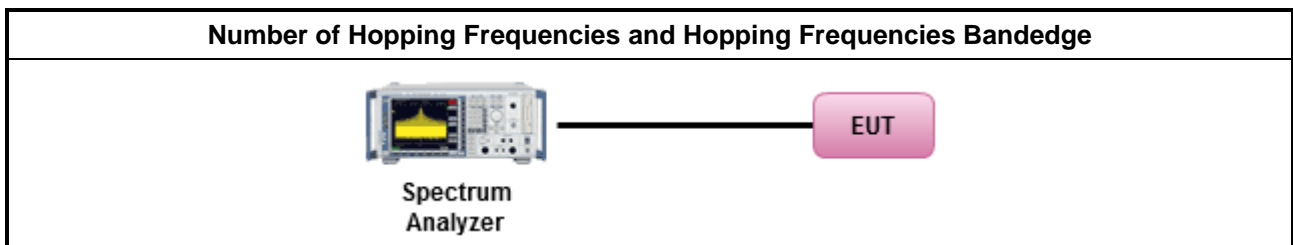
3.4.3 Measuring Instruments

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

3.4.4 Test Procedures

Test Method
<ul style="list-style-type: none"> ▪ Refer as ANSI C63.10-2013, clause 7.8.3 for number of hopping frequencies measurement.
<ul style="list-style-type: none"> ▪ 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

Time of Occupancy (Dwell Time) Limit for Frequency Hopping Systems	
<ul style="list-style-type: none"> 2400-2483.5 MHz Band: 	
	<ul style="list-style-type: none"> $N \geq 75$; 0.4s in $N \times 0.4$ period
	<ul style="list-style-type: none"> $75 > N \geq 15$; 0.4s in $N \times 0.4$ period
N: Number of Hopping Frequencies	

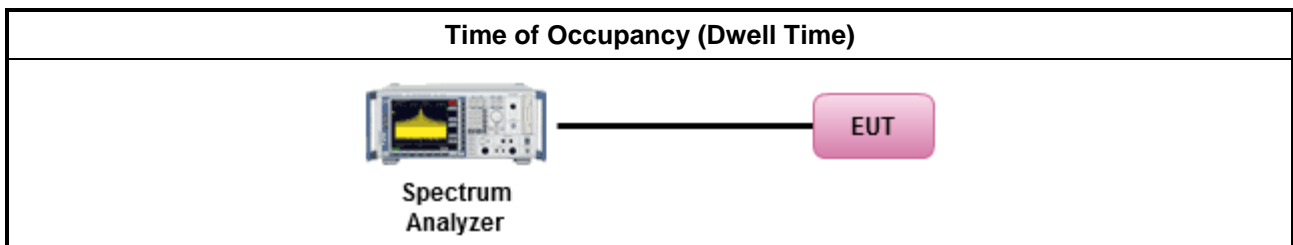
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> Refer as ANSI C63.10-2013, clause 7.8.4 for dwell time measurement. 	
<ul style="list-style-type: none"> 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. 	
	<ul style="list-style-type: none"> 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 (dB)
Peak output power procedure	20
Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level.	

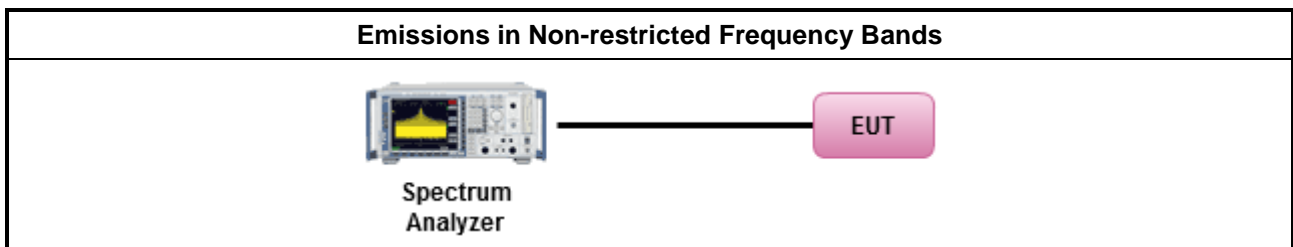
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

Test Method
<ul style="list-style-type: none"> Refer as ANSI C63.10-2013, clause 7.8.8 for unwanted emissions into non-restricted bands.

3.6.4 Test Setup



3.6.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix F

3.7 Emissions in Restricted Frequency Bands

3.7.1 Emissions in Restricted Frequency Bands Limit

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

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

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

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

3.7.2 Measuring Instruments

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

3.7.3 Test Procedures

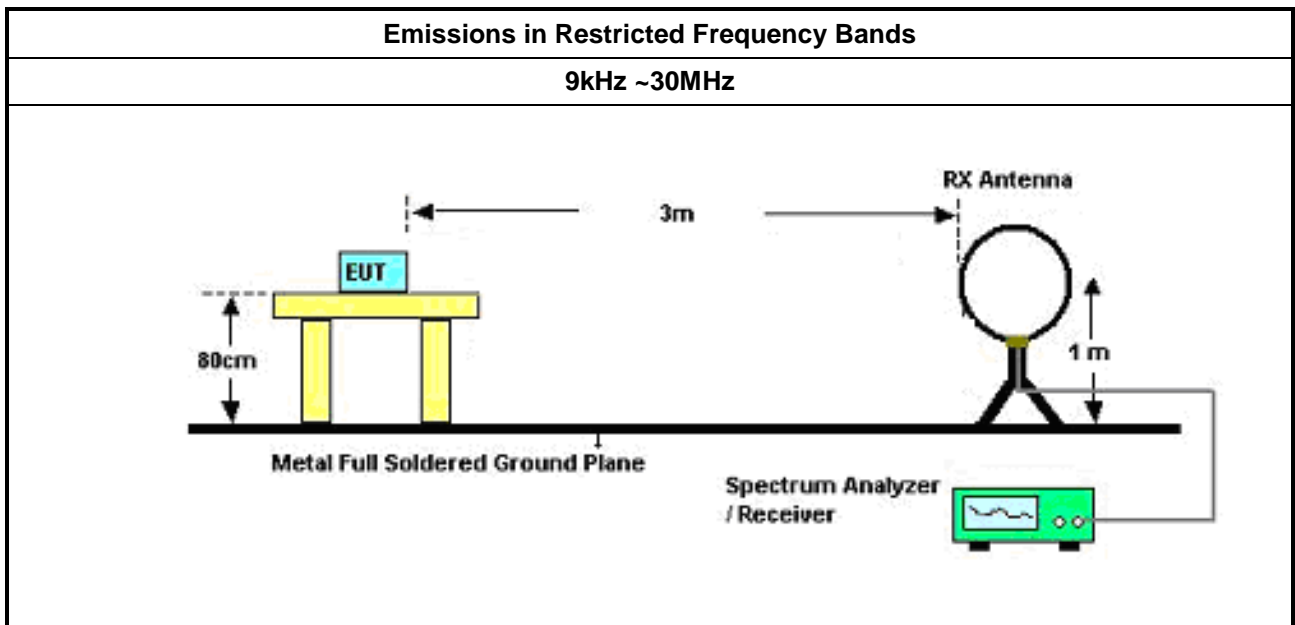
Test Method	
<ul style="list-style-type: none"> The average emission levels shall be measured in [hopping duty factor]. 	
<ul style="list-style-type: none"> Refer as ANSI C63.10; clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band. 	
<ul style="list-style-type: none"> For the transmitter unwanted emissions shall be measured using following options below: 	
	<ul style="list-style-type: none"> Refer as ANSI C63.10, clause 4.1.4.2.1 QP value.
	<ul style="list-style-type: none"> Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak.
	<ul style="list-style-type: none"> Refer as ANSI C63.10, clause 4.1.4.2.4 average value of hopping pulsed emissions.
<ul style="list-style-type: none"> KDB 414788 Open-Field Test Sites and Chamber Correlation Justification. 	
<ul style="list-style-type: none"> Based on FCC 15.31(f)(2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field. 	
<ul style="list-style-type: none"> Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result. 	

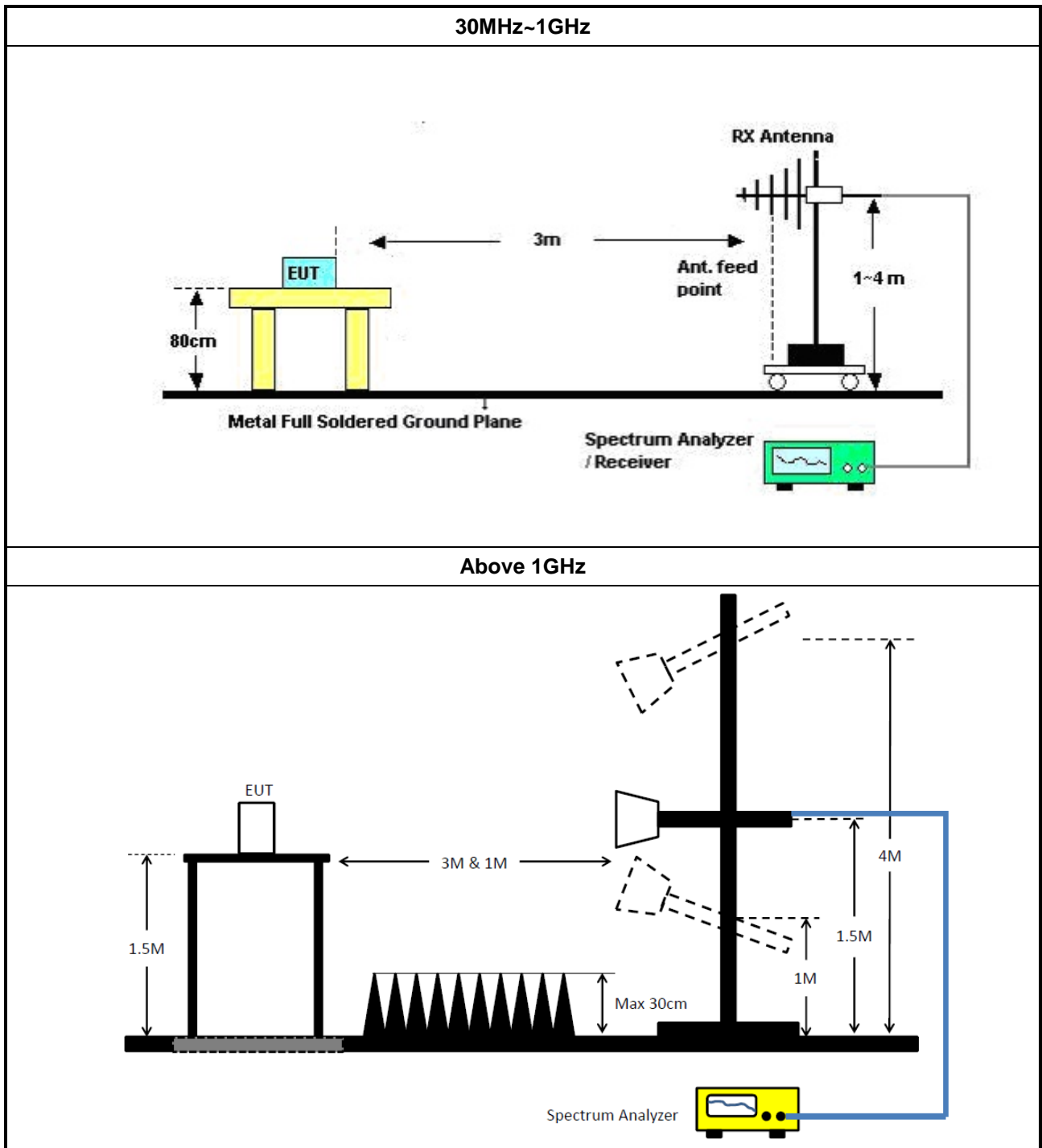
3.7.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamplifier Factor)

3.7.5 Test Setup





3.7.6 Test Result of Emissions in Restricted Frequency Bands (Below 30MHz)

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

3.7.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix G

4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR	102052	9kHz ~ 3.6GHz	19/Apr/2021	18/Apr/2022
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	11/Nov/2020	10/Nov/2021
RF Cable 5m	TITAN	TITAN	CO04-cable-01	0.1MHz~200MHz	03/Mar/2021	02/Mar/2022
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	15/Sep/2021	14/Sep/2022

Instrument for Conducted Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101013	10Hz~40GHz	30/Mar/2021	29/Mar/2022
Signal Generator	R&S	SMB100A	181239	100kHz~40GHz	30/Dec/2020	29/Dec/2021
Pulse Sensor	Anritsu	MA2411B	1027452	300MHz~40GHz	25/Mar/2021	24/Mar/2022
Power Meter	Anritsu	ML2495A	1124009	300MHz~40GHz	25/Mar/2021	24/Mar/2022



Instrument for Radiated Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	30MHz~1GHz 3m	26/Mar/2021	25/Mar/2022
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	1GHz~18GHz 3m	18/Mar/2021	17/Mar/2022
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200885	10Hz~44GHz	13/Aug/2021	12/Aug/2022
Amplifier	EMC	EMC9135	980232	9kHz~1GHz	12/Apr/2021	11/Apr/2022
Microwave Preamplifier	Agilent	8449B	3008A02096	1GHz~26.5GHz	23/Jul/2021	22/Jul/2022
Bilog Antenna & 5dB Attenuator	TESEQ & MTJ	CBL6111D&MT J6102-05	35418 & 3	30MHz~1GHz	04/Sep/2021	03/Sep/2022
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA9120 D 1534	1GHz~18GHz	18/May/2021	17/May/2022
RF Cable-low	Jye Bao	RG142	CB031+324530/4	9kHz~30MHz	30/Aug/2021	29/Aug/2022
RF Cable-low	Jye Bao	RG142	CB031+324530/4	30MHz~1GHz	09/Feb/2021	08/Feb/2022
RF CABLE 5m+3m+1m	HUBER+SUHNER	SUCOFLEX104	CB009	1GHz~40GHz	13/Aug/2021	12/Aug/2022
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	18GHz~40GHz	11/Mar/2021	10/Mar/2022
Microwave Preamplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~ 40GHz	09/Mar/2021	08/Mar/2022
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	16/Mar/2021	15/Mar/2022
EMI Test Receiver	R&S	ESR3	102052	9kHz~3.6GHz	19/Apr/2021	18/Apr/2022



Summary

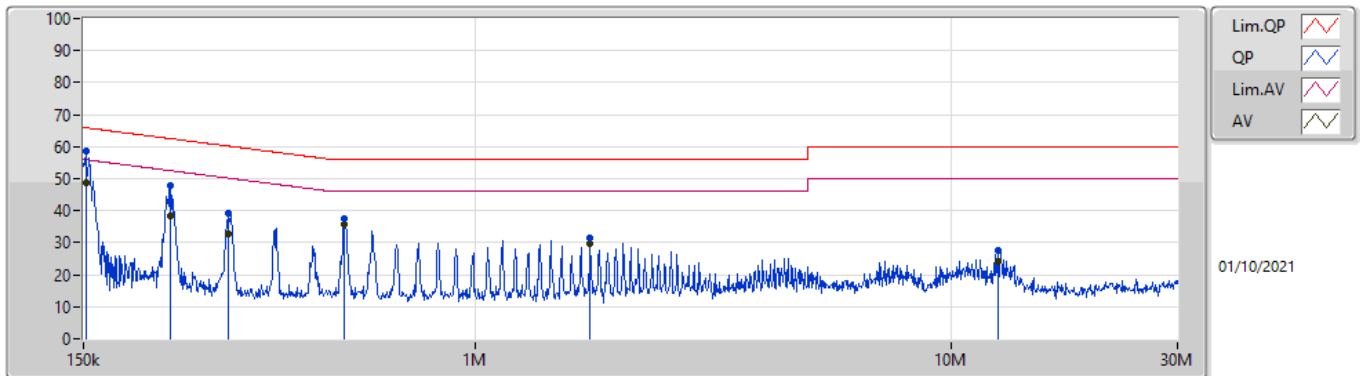
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	151.807k	48.80	55.90	-7.10	Line



Mode Configure

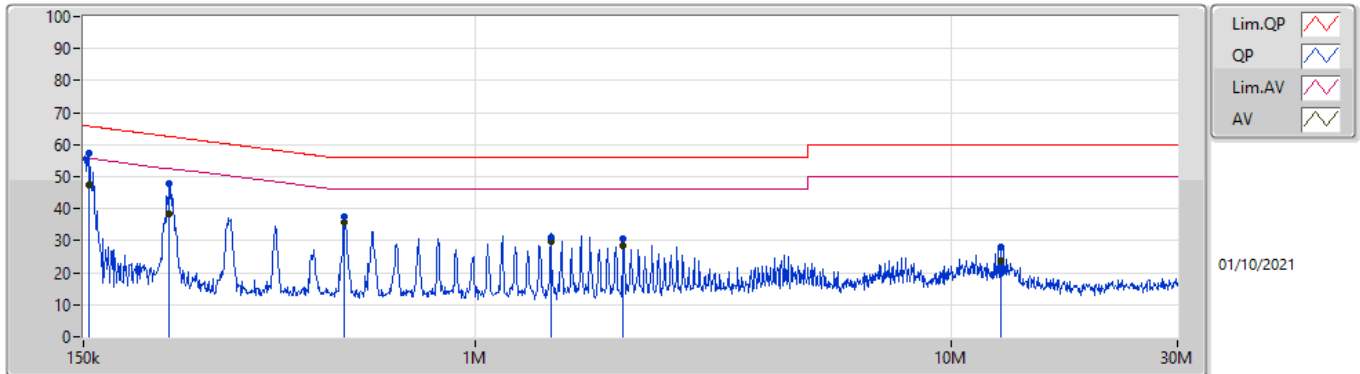
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	151.807k	58.43	65.90	-7.47	Line	-
Mode 1	Pass	AV	151.807k	48.80	55.90	-7.10	Line	-
Mode 1	Pass	QP	229.015k	47.65	62.48	-14.83	Line	-
Mode 1	Pass	AV	229.015k	38.15	52.48	-14.33	Line	-
Mode 1	Pass	QP	302.848k	39.31	60.17	-20.86	Line	-
Mode 1	Pass	AV	302.848k	32.55	50.17	-17.62	Line	-
Mode 1	Pass	QP	531.714k	37.54	56.00	-18.46	Line	-
Mode 1	Pass	AV	531.714k	35.87	46.00	-10.13	Line	-
Mode 1	Pass	QP	1.747M	31.58	56.00	-24.42	Line	-
Mode 1	Pass	AV	1.747M	29.94	46.00	-16.06	Line	-
Mode 1	Pass	QP	12.604M	27.79	60.00	-32.21	Line	-
Mode 1	Pass	AV	12.604M	24.18	50.00	-25.82	Line	-
Mode 1	Pass	QP	153.636k	57.48	65.81	-8.33	Neutral	-
Mode 1	Pass	AV	153.636k	47.37	55.81	-8.44	Neutral	-
Mode 1	Pass	QP	227.194k	48.06	62.56	-14.50	Neutral	-
Mode 1	Pass	AV	227.194k	38.39	52.56	-14.17	Neutral	-
Mode 1	Pass	QP	531.714k	37.35	56.00	-18.65	Neutral	-
Mode 1	Pass	AV	531.714k	35.83	46.00	-10.17	Neutral	-
Mode 1	Pass	QP	1.442M	30.98	56.00	-25.02	Neutral	-
Mode 1	Pass	AV	1.442M	29.61	46.00	-16.39	Neutral	-
Mode 1	Pass	QP	2.05M	30.79	56.00	-25.21	Neutral	-
Mode 1	Pass	AV	2.05M	28.64	46.00	-17.36	Neutral	-
Mode 1	Pass	QP	12.756M	27.87	60.00	-32.13	Neutral	-
Mode 1	Pass	AV	12.756M	23.82	50.00	-26.18	Neutral	-

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	151.807k	58.43	65.90	-7.47	19.62	Line	-	38.81	9.69	0.04	9.89
AV	151.807k	48.80	55.90	-7.10	19.62	Line	-	29.18	9.69	0.04	9.89
QP	229.015k	47.65	62.48	-14.83	19.61	Line	-	28.04	9.68	0.04	9.89
AV	229.015k	38.15	52.48	-14.33	19.61	Line	-	18.54	9.68	0.04	9.89
QP	302.848k	39.31	60.17	-20.86	19.61	Line	-	19.70	9.67	0.05	9.89
AV	302.848k	32.55	50.17	-17.62	19.61	Line	-	12.94	9.67	0.05	9.89
QP	531.714k	37.54	56.00	-18.46	19.63	Line	-	17.91	9.67	0.07	9.89
AV	531.714k	35.87	46.00	-10.13	19.63	Line	-	16.24	9.67	0.07	9.89
QP	1.747M	31.58	56.00	-24.42	19.66	Line	-	11.92	9.68	0.10	9.88
AV	1.747M	29.94	46.00	-16.06	19.66	Line	-	10.28	9.68	0.10	9.88
QP	12.604M	27.79	60.00	-32.21	19.82	Line	-	7.97	9.70	0.23	9.89
AV	12.604M	24.18	50.00	-25.82	19.82	Line	-	4.36	9.70	0.23	9.89

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	153.636k	57.48	65.81	-8.33	19.62	Neutral	-	37.86	9.69	0.04	9.89
AV	153.636k	47.37	55.81	-8.44	19.62	Neutral	-	27.75	9.69	0.04	9.89
QP	227.194k	48.06	62.56	-14.50	19.61	Neutral	-	28.45	9.68	0.04	9.89
AV	227.194k	38.39	52.56	-14.17	19.61	Neutral	-	18.78	9.68	0.04	9.89
QP	531.714k	37.35	56.00	-18.65	19.63	Neutral	-	17.72	9.67	0.07	9.89
AV	531.714k	35.83	46.00	-10.17	19.63	Neutral	-	16.20	9.67	0.07	9.89
QP	1.442M	30.98	56.00	-25.02	19.65	Neutral	-	11.33	9.68	0.09	9.88
AV	1.442M	29.61	46.00	-16.39	19.65	Neutral	-	9.96	9.68	0.09	9.88
QP	2.05M	30.79	56.00	-25.21	19.66	Neutral	-	11.13	9.68	0.10	9.88
AV	2.05M	28.64	46.00	-17.36	19.66	Neutral	-	8.98	9.68	0.10	9.88
QP	12.756M	27.87	60.00	-32.13	19.86	Neutral	-	8.01	9.74	0.23	9.89
AV	12.756M	23.82	50.00	-26.18	19.86	Neutral	-	3.96	9.74	0.23	9.89



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)	936.25k	893.303k	893KF1D	936.25k	887.056k
BT-EDR(2Mbps)	1.281M	1.187M	1M19G1D	1.251M	1.184M
BT-EDR(3Mbps)	1.256M	1.202M	1M20G1D	1.251M	1.192M

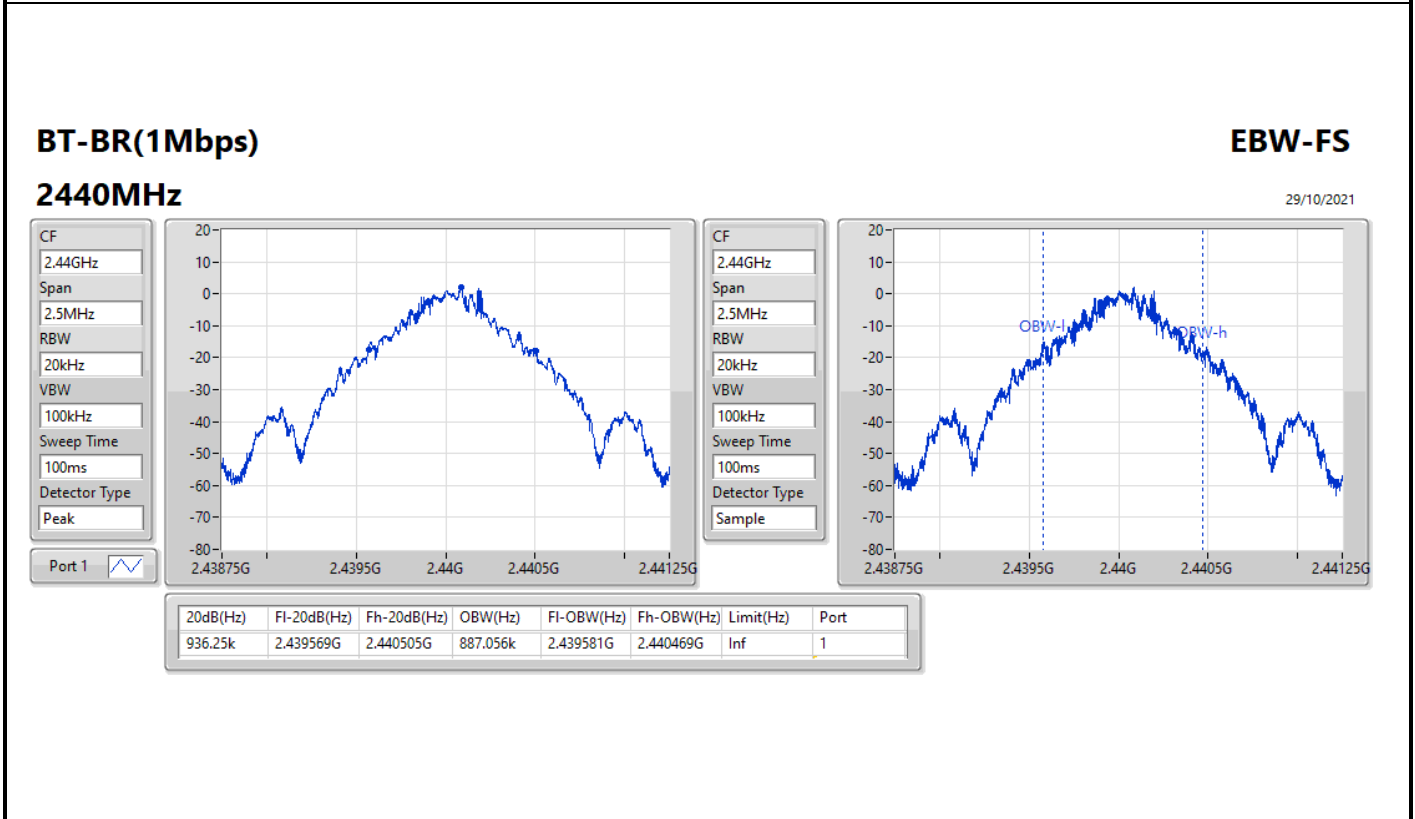
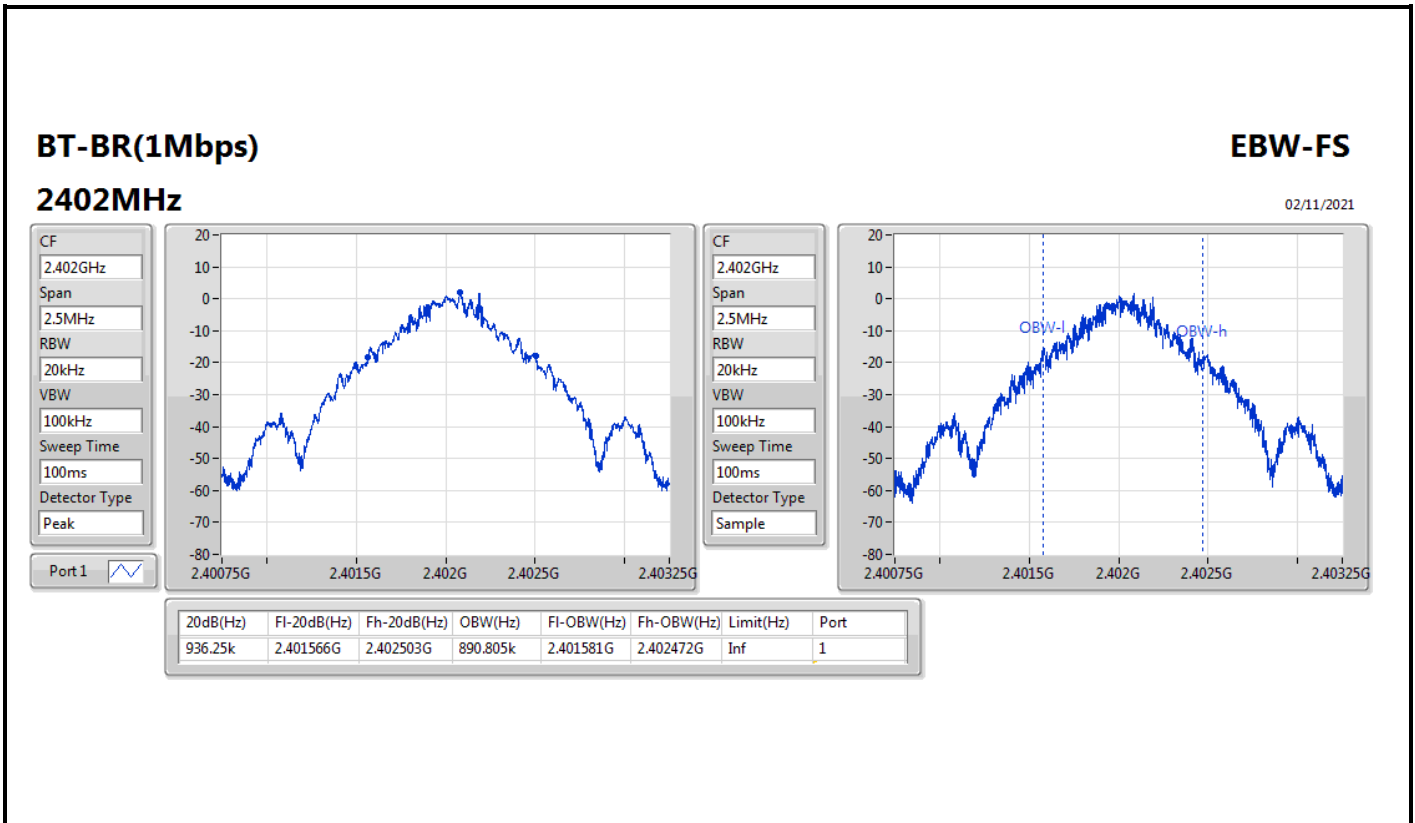
Max-N dB = Maximum 20dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 20dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

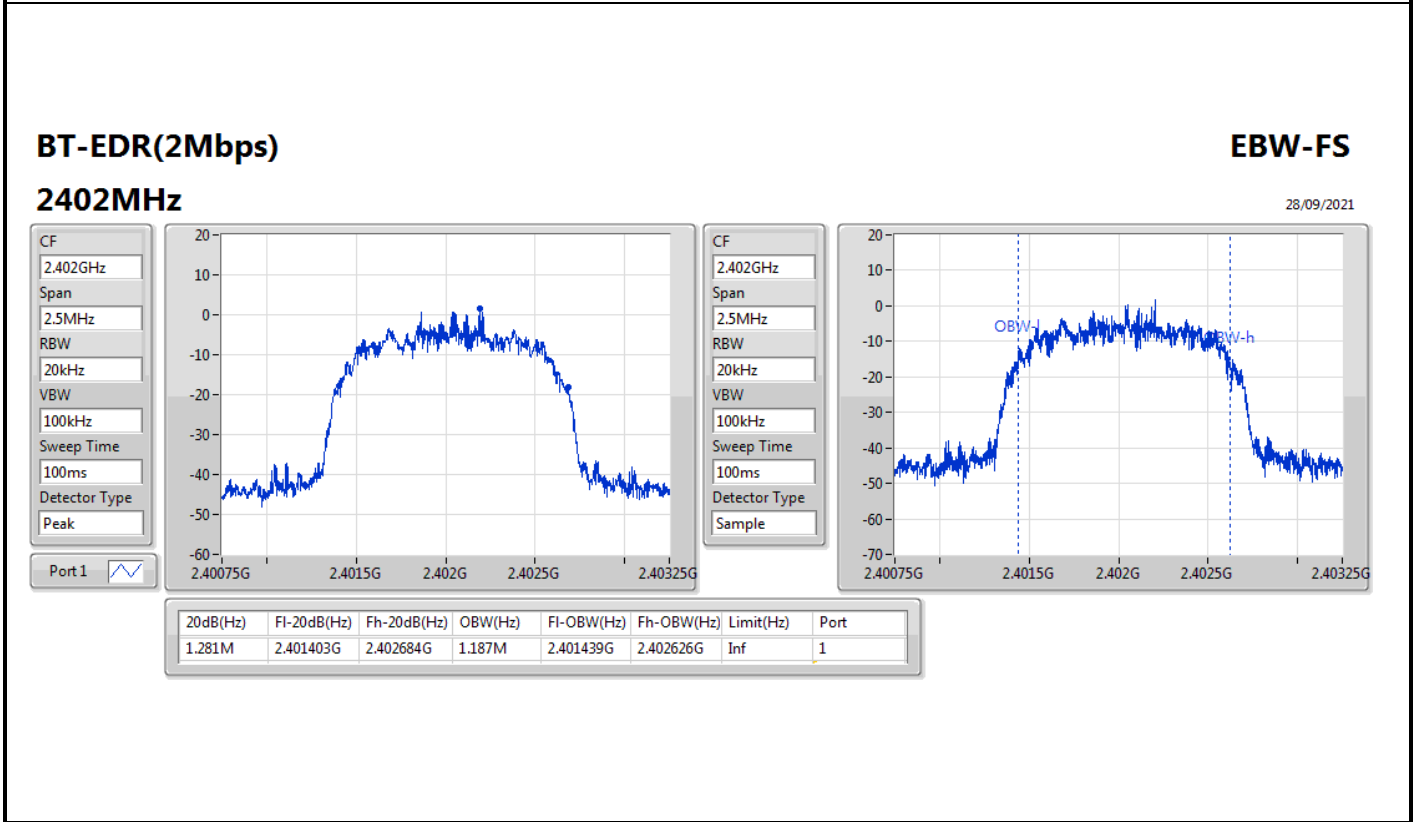
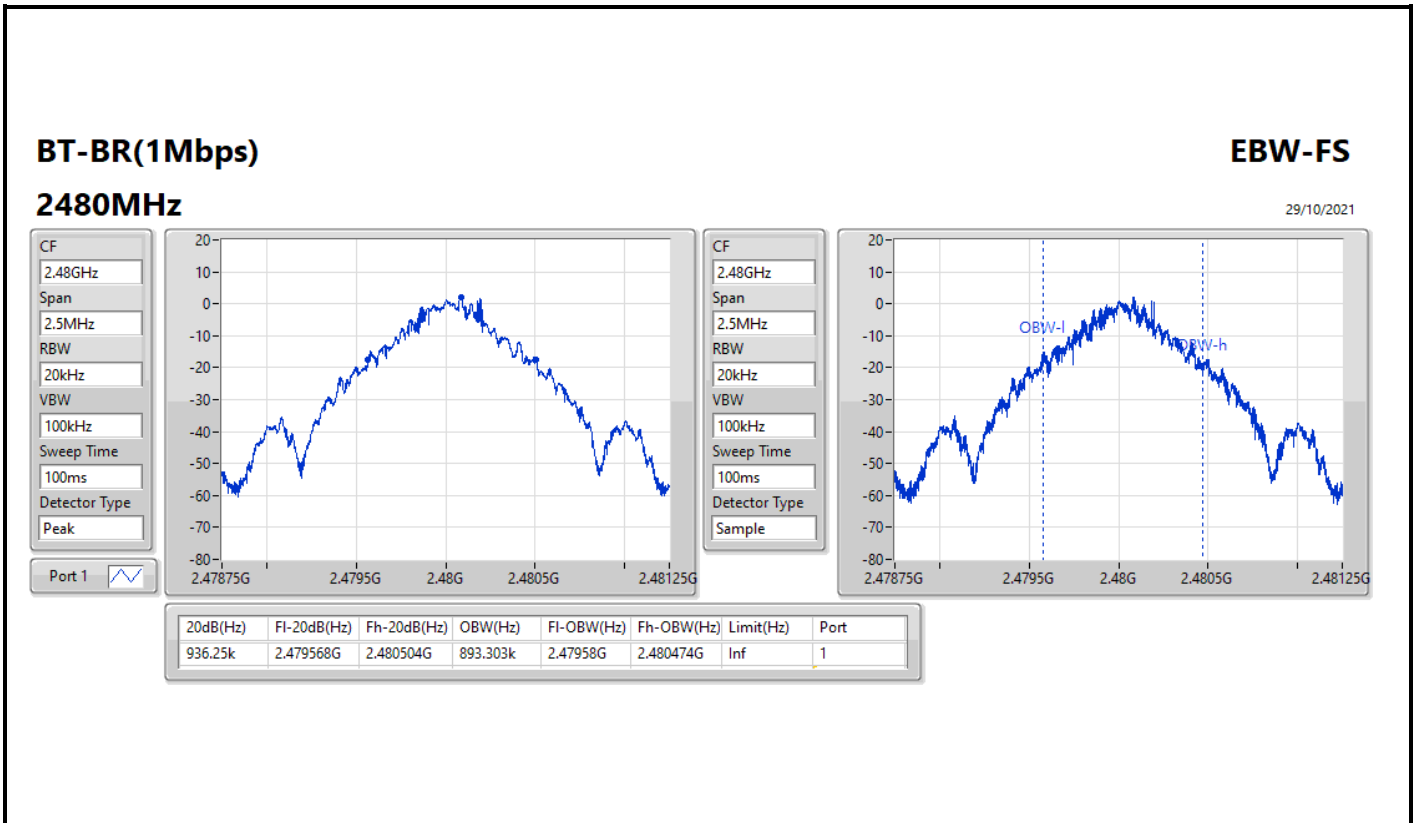


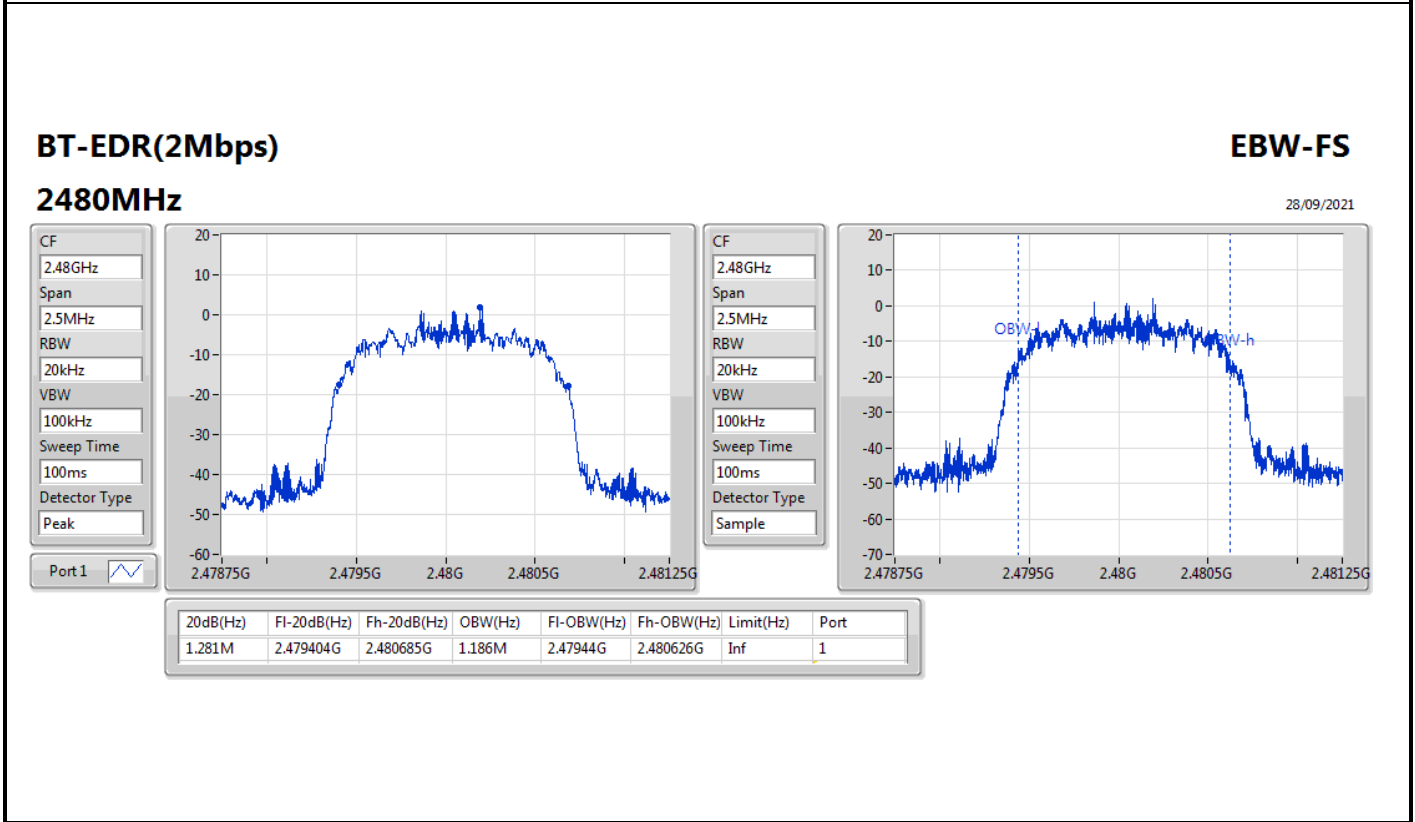
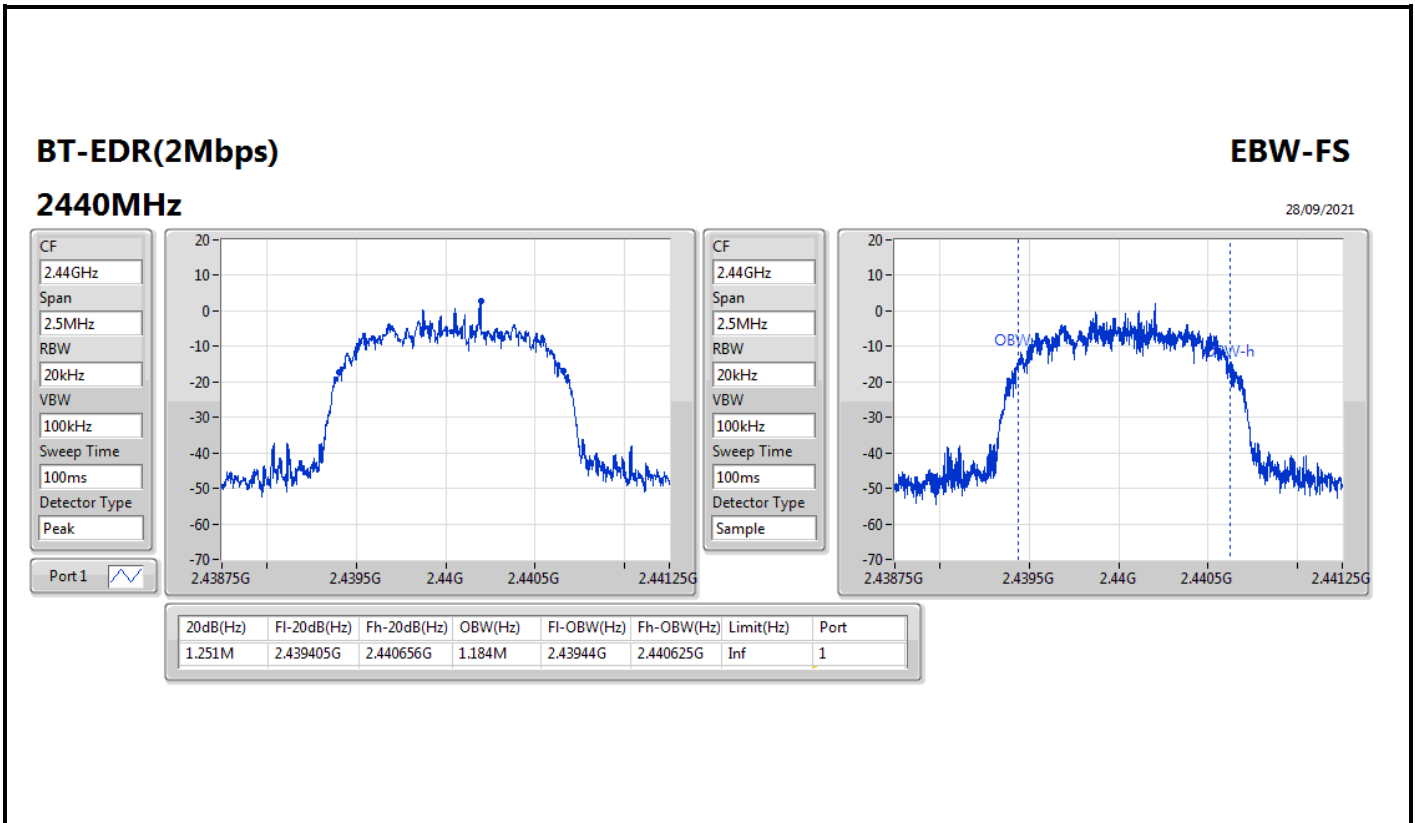
Result

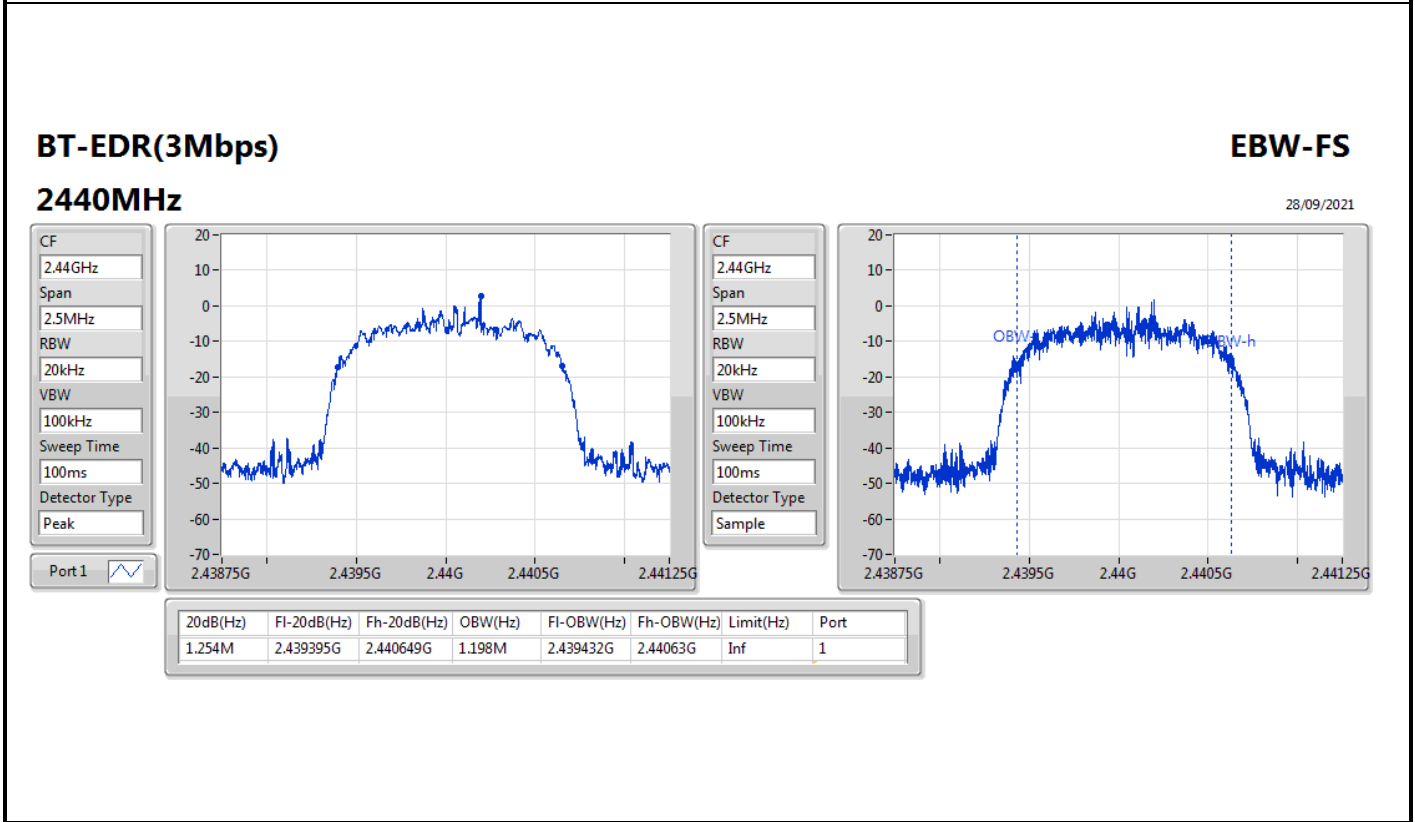
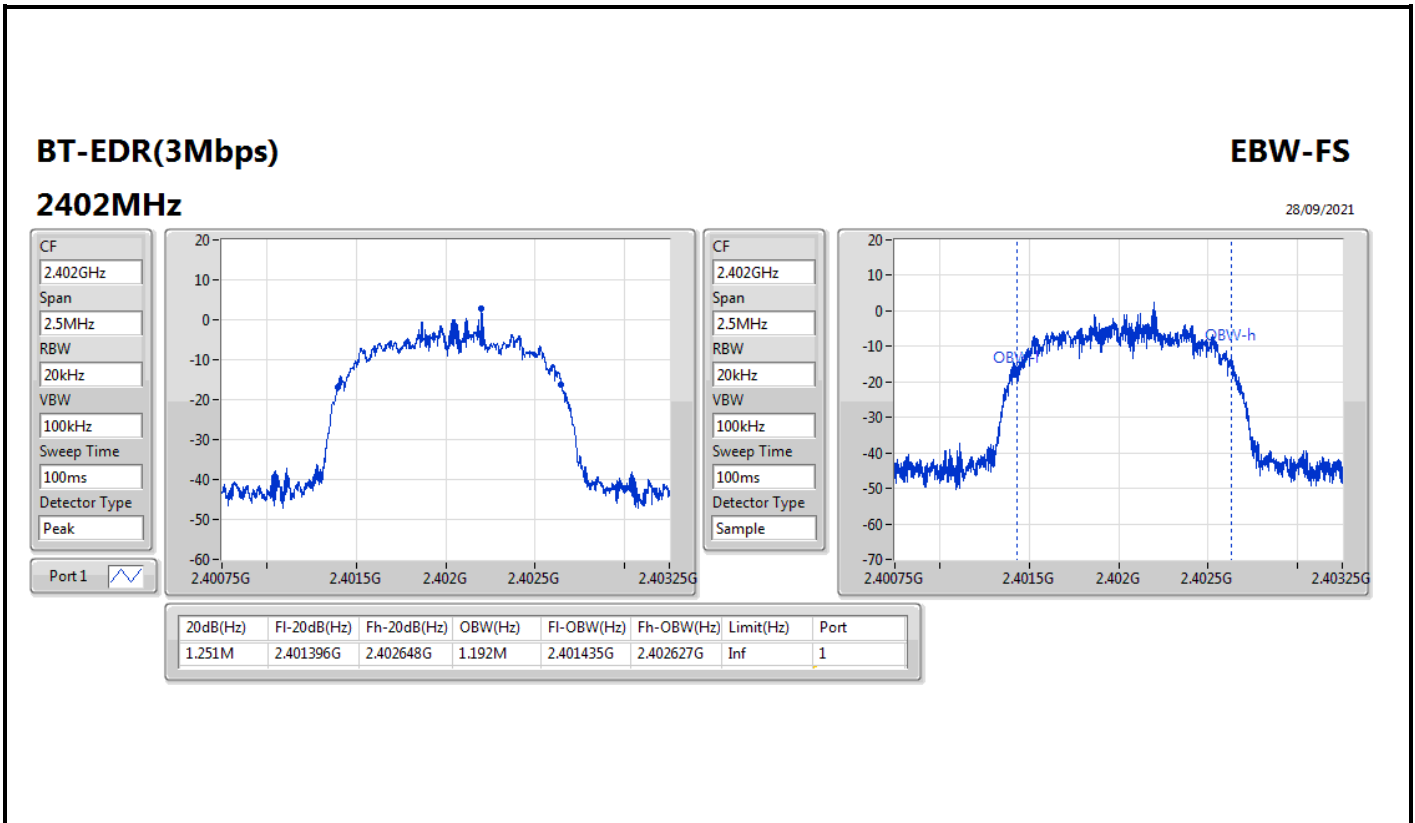
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	Inf	936.25k	890.805k
2440MHz	Pass	Inf	936.25k	887.056k
2480MHz	Pass	Inf	936.25k	893.303k
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.281M	1.187M
2440MHz	Pass	Inf	1.251M	1.184M
2480MHz	Pass	Inf	1.281M	1.186M
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.251M	1.192M
2440MHz	Pass	Inf	1.254M	1.198M
2480MHz	Pass	Inf	1.256M	1.202M

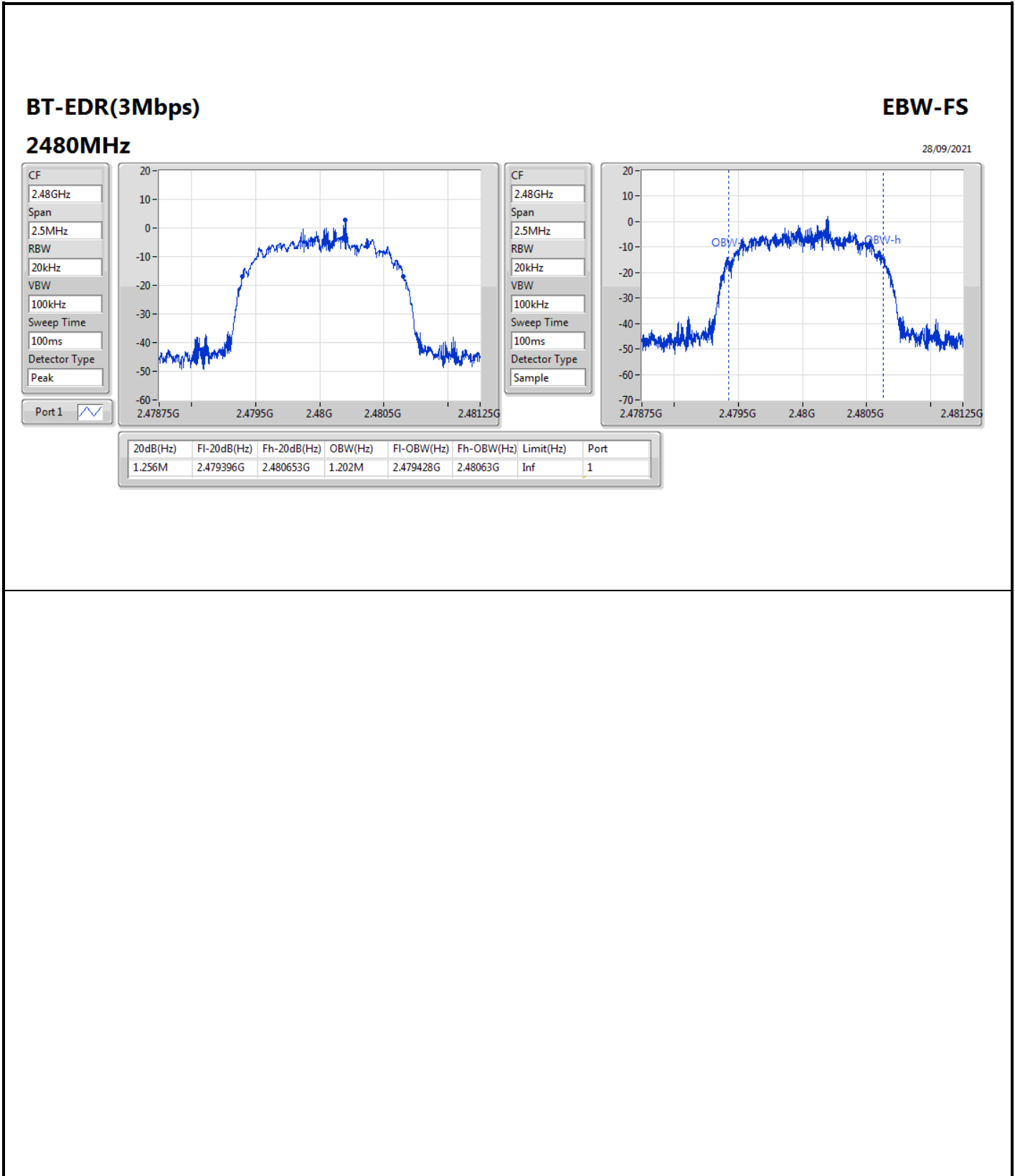
Port X-N dB = Port X 20dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth













Summary

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



Result

Mode	Result	Fl (Hz)	Fh (Hz)	Ch.Space (Hz)	Limit (Hz)
BT-BR(1Mbps)	-	-	-	-	-
2402MHz	Pass	2.402187G	2.403187G	1.0005M	623.5425k
2440MHz	Pass	2.440188G	2.441189G	1.0005M	623.5425k
2480MHz	Pass	2.479188G	2.480189G	1.0005M	623.5425k
BT-EDR(2Mbps)	-	-	-	-	-
2402MHz	Pass	2.402197G	2.403198G	1.0005M	834.498k
2440MHz	Pass	2.440197G	2.441196G	999k	833.166k
2480MHz	Pass	2.479197G	2.480198G	1.0005M	853.146k
BT-EDR(3Mbps)	-	-	-	-	-
2402MHz	Pass	2.402194G	2.403195G	1.0005M	833.166k
2440MHz	Pass	2.440196G	2.441196G	1.0005M	835.164k
2480MHz	Pass	2.479197G	2.480196G	999k	836.496k

BT-BR(1Mbps)

Channel Separation-FS

2.402G/2.403GHz

29/10/2021



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.402187G	2.403187G	1.0005M	623.5425k

BT-BR(1Mbps)

Channel Separation-FS

2.44G/2.441GHz

29/10/2021



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.440188G	2.441189G	1.0005M	623.5425k


BT-BR(1Mbps)

2.48G/2.479GHz

Channel Separation-FS

29/10/2021



Port 1 

Ch Freq
2.48G/2.479G

Span
3MHz

RBW
30kHz

VBW
100kHz

Sweep
100ms

Detector
Peak

F1(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.479188G	2.480189G	1.0005M	623.5425k


BT-EDR(2Mbps)

2.402G/2.403GHz

Channel Separation-FS

28/09/2021



Port 1 

Ch Freq
2.402G/2.403G

Span
3MHz

RBW
30kHz

VBW
100kHz

Sweep
100ms

Detector
Peak

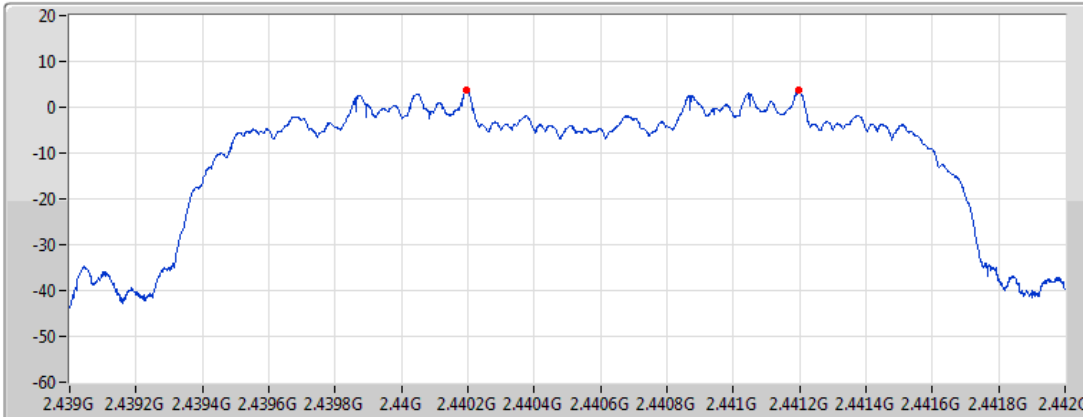
F1(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.402197G	2.403198G	1.0005M	834.498k


BT-EDR(2Mbps)

Channel Separation-FS

2.44G/2.441GHz

28/09/2021



Port 1 

Ch Freq
2.44G/2.441G

Span
3MHz

RBW
30kHz

VBW
100kHz

Sweep
100ms

Detector
Peak

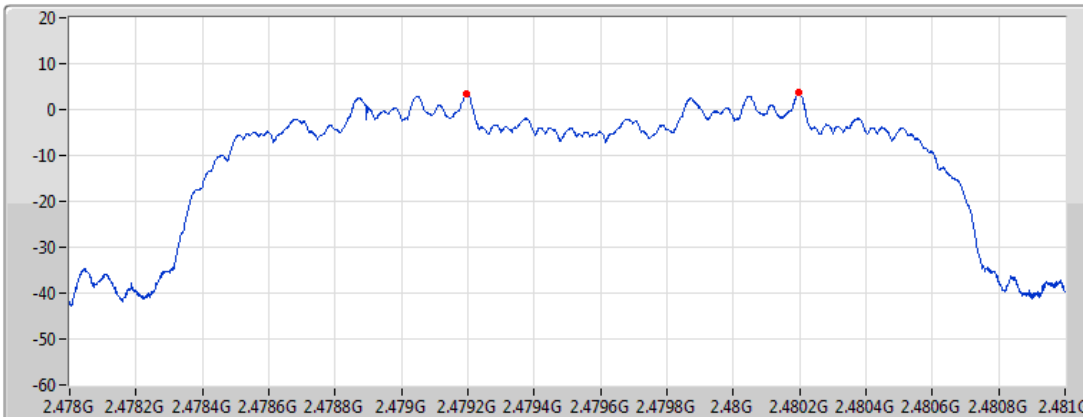
F1(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.440197G	2.441196G	999k	833.166k


BT-EDR(2Mbps)

Channel Separation-FS

2.48G/2.479GHz

28/09/2021



Port 1 

Ch Freq
2.48G/2.479G

Span
3MHz

RBW
30kHz

VBW
100kHz

Sweep
100ms

Detector
Peak

F1(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.479197G	2.480196G	1.0005M	853.146k


BT-EDR(3Mbps)

Channel Separation-FS

2.402G/2.403GHz

28/09/2021



Port 1 

Ch Freq
2.402G/2.403G

Span
3MHz

RBW
30kHz

VBW
100kHz

Sweep
100ms

Detector
Peak

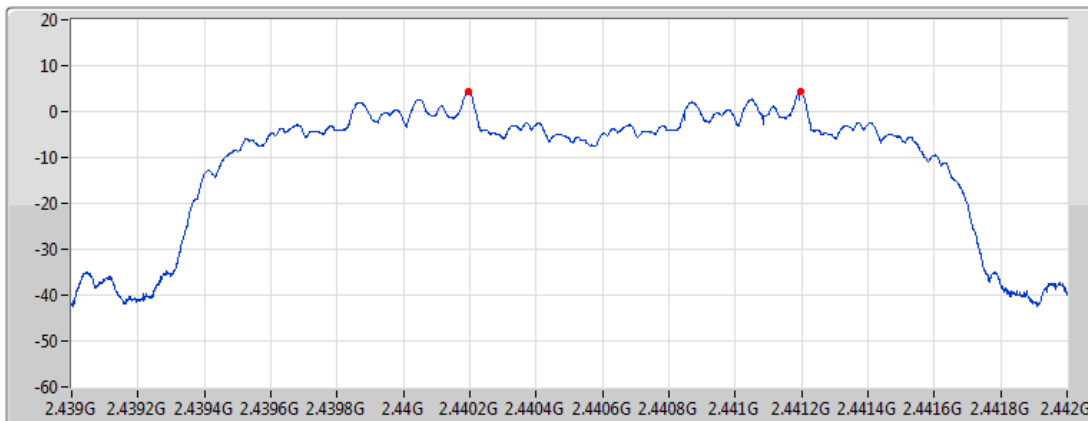
F1(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.402194G	2.403195G	1.0005M	833.166k


BT-EDR(3Mbps)

Channel Separation-FS

2.44G/2.441GHz

28/09/2021



Port 1 

Ch Freq
2.44G/2.441G

Span
3MHz

RBW
30kHz

VBW
100kHz

Sweep
100ms

Detector
Peak

F1(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.440196G	2.441196G	1.0005M	835.164k

BT-EDR(3Mbps)

2.48G/2.479GHz

Channel Separation-FS

28/09/2021



F1(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.479197G	2.480196G	999k	836.496k



Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	5.79	0.00379
BT-EDR(2Mbps)	7.55	0.00569
BT-EDR(3Mbps)	7.94	0.00622



Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	0.00	5.55	21.00
2440MHz	Pass	0.00	5.79	21.00
2480MHz	Pass	0.00	5.74	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	0.00	7.46	21.00
2440MHz	Pass	0.00	7.55	21.00
2480MHz	Pass	0.00	7.38	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	0.00	7.94	21.00
2440MHz	Pass	0.00	7.94	21.00
2480MHz	Pass	0.00	7.83	21.00

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



Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	5.69	0.00371
BT-EDR(2Mbps)	5.19	0.00330
BT-EDR(3Mbps)	5.36	0.00344



Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	0.00	5.13	21.00
2440MHz	Pass	0.00	5.56	21.00
2480MHz	Pass	0.00	5.69	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	0.00	4.93	21.00
2440MHz	Pass	0.00	5.19	21.00
2480MHz	Pass	0.00	4.17	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	0.00	5.36	21.00
2440MHz	Pass	0.00	5.31	21.00
2480MHz	Pass	0.00	5.04	21.00

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



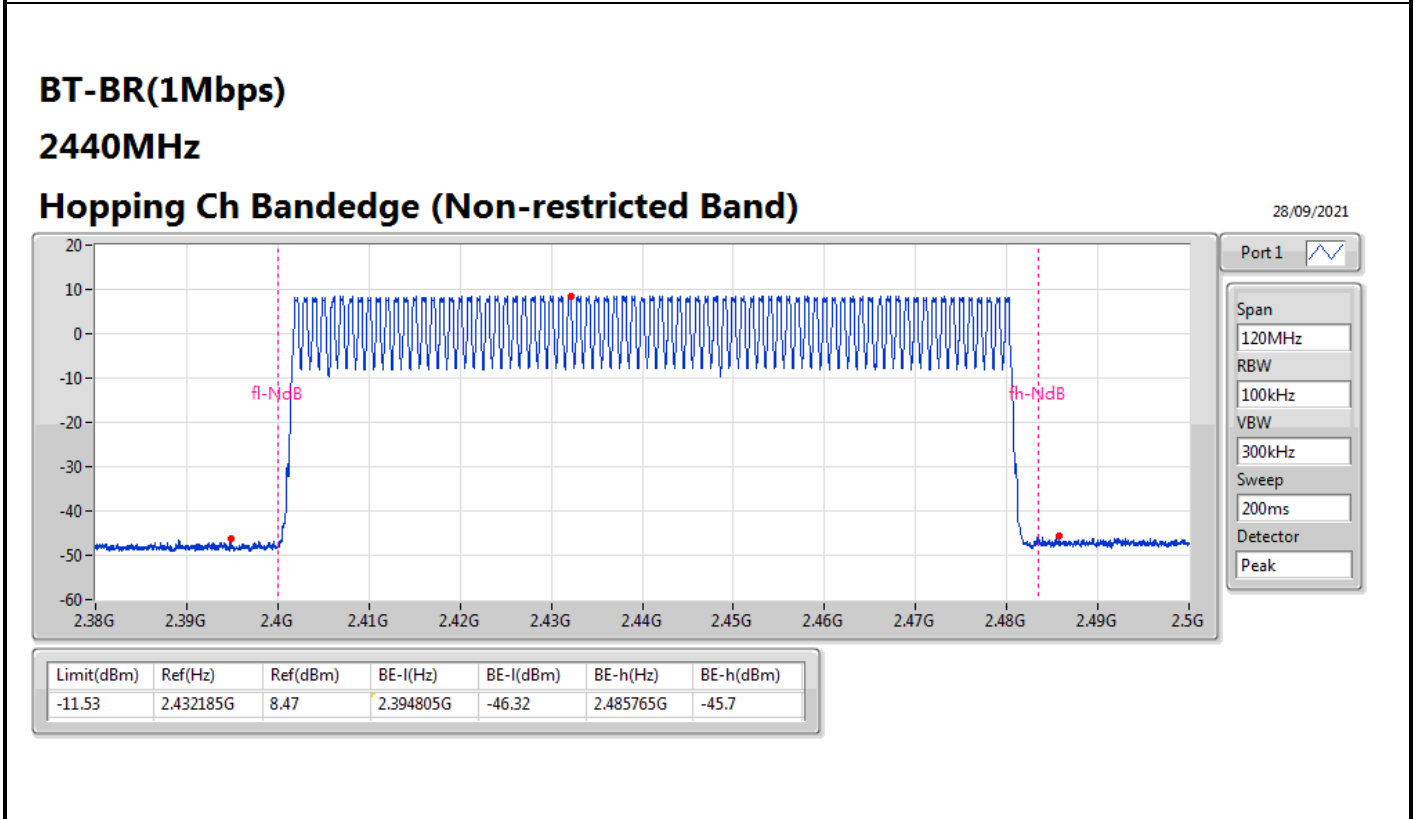
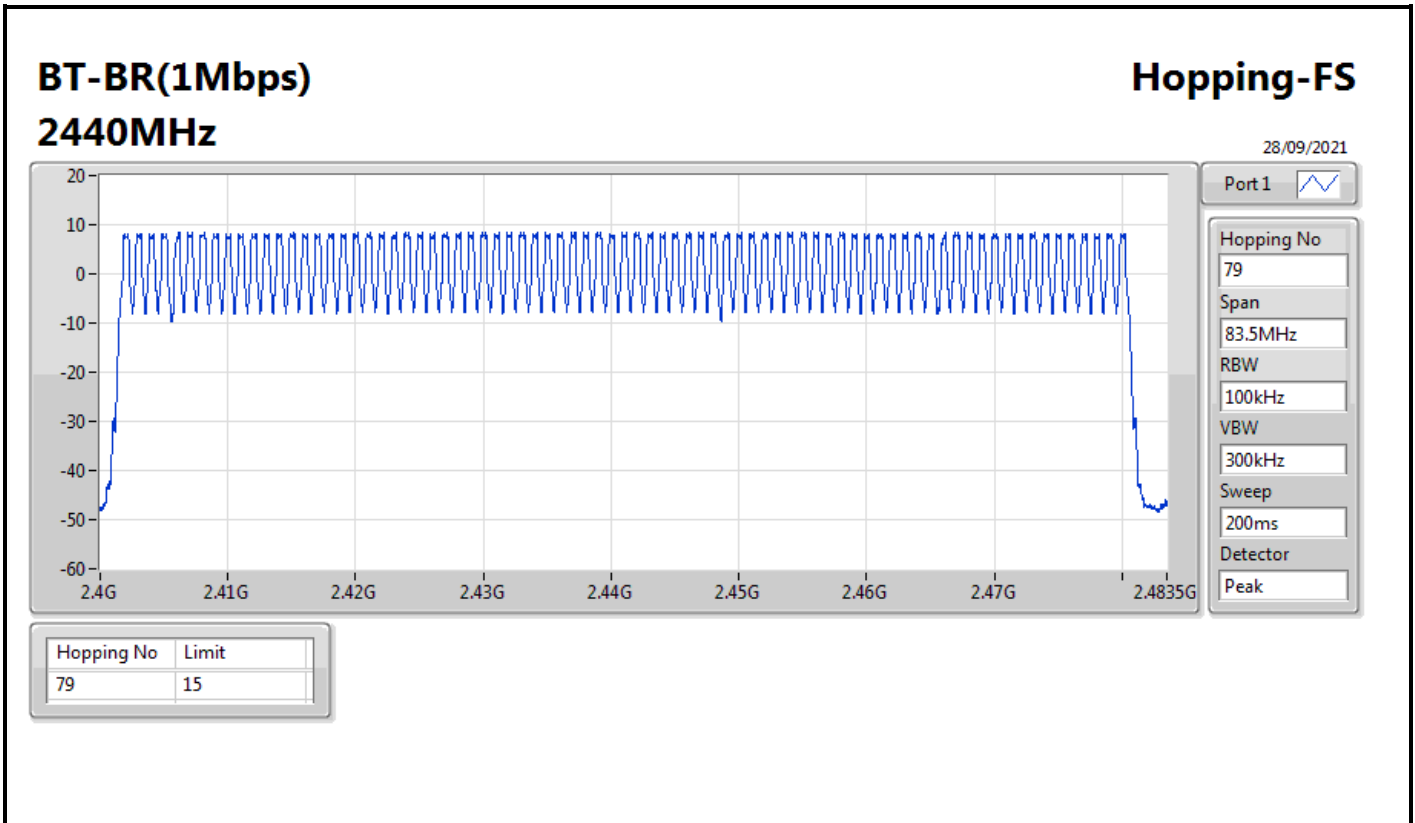
Summary

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



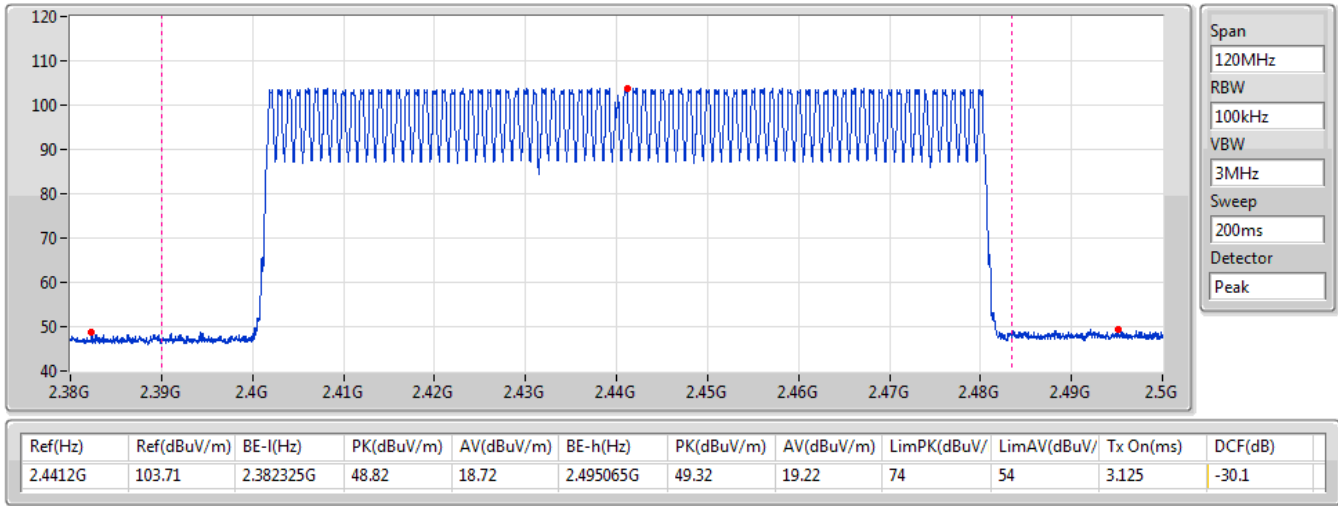
Result

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



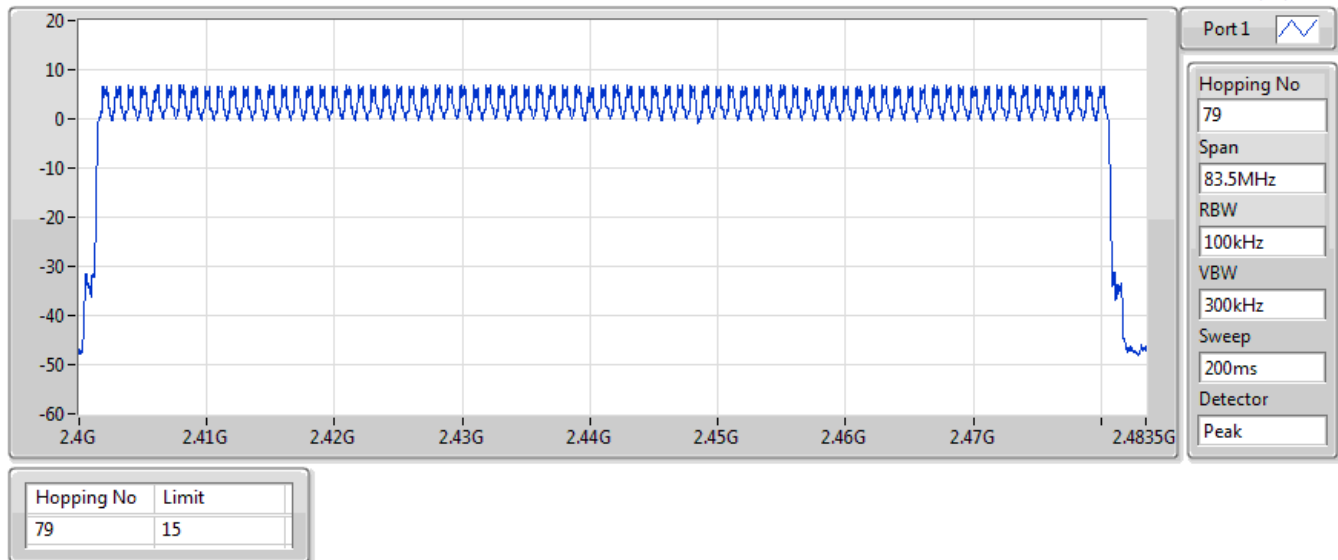
BT-BR(1Mbps)
2440MHz
Hopping Ch Bandedge (Restricted Band)

28/09/2021



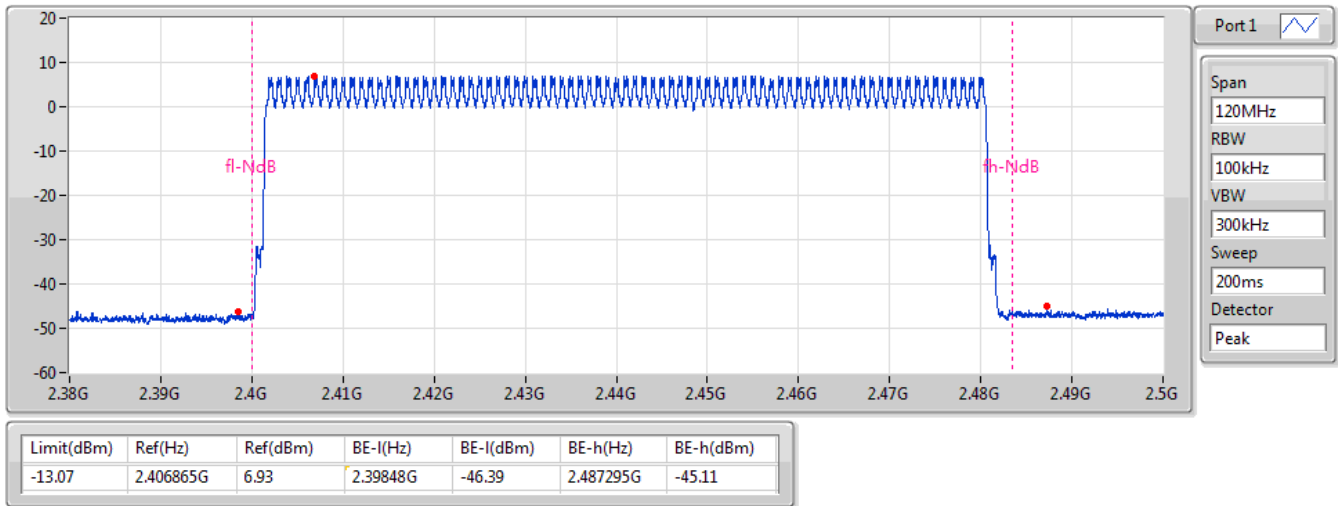
BT-EDR(2Mbps) **Hopping-FS**
2440MHz

28/09/2021



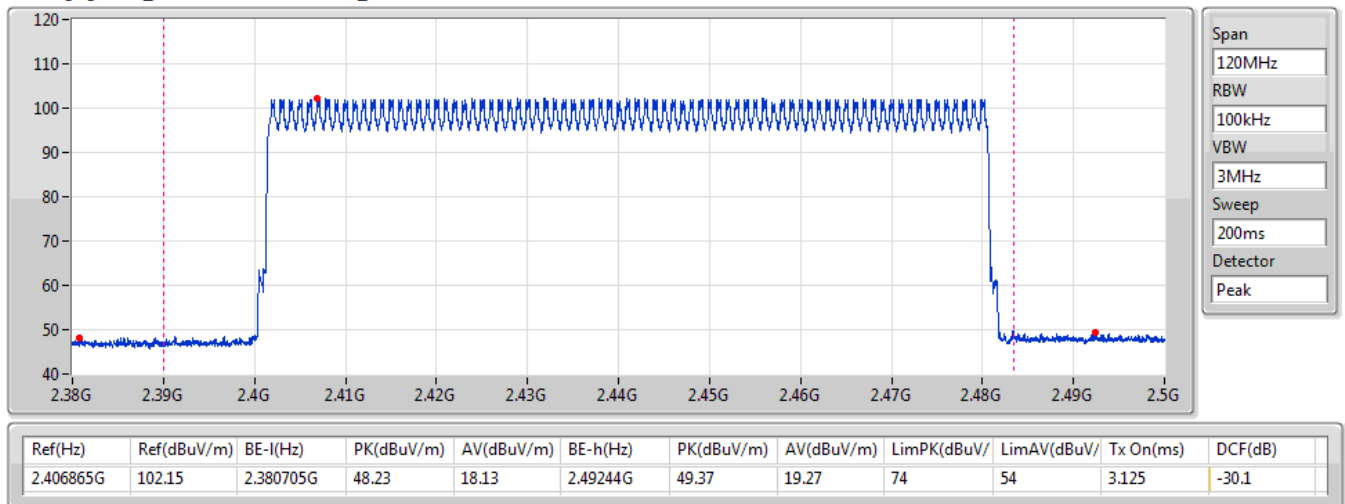
BT-EDR(2Mbps)
2440MHz
Hopping Ch Bandedge (Non-restricted Band)

28/09/2021



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

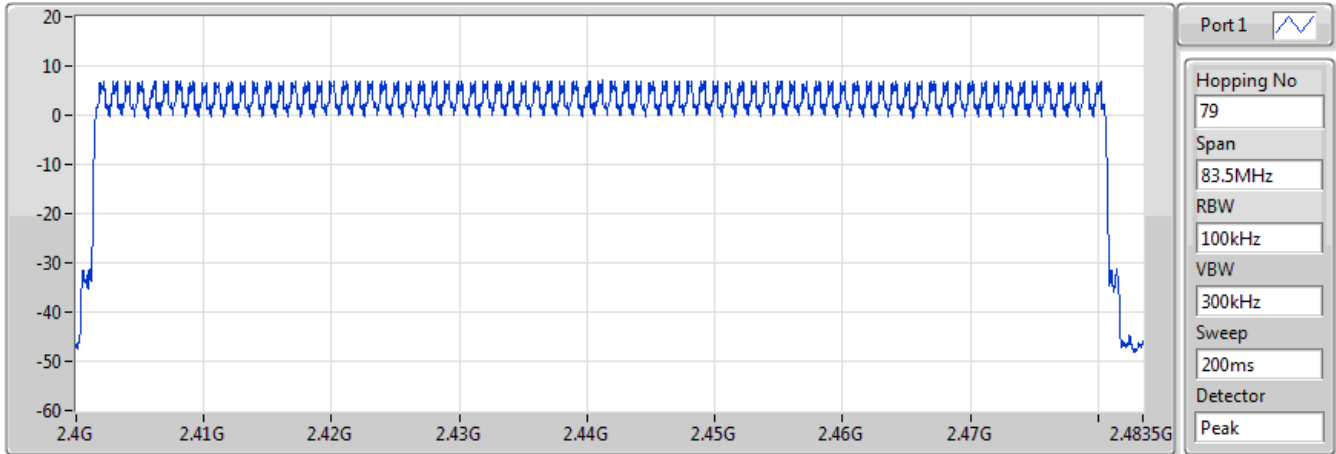
28/09/2021




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

Hopping-FS

28/09/2021



Port 1 

Hopping No
79

Span
83.5MHz

RBW
100kHz

VBW
300kHz

Sweep
200ms

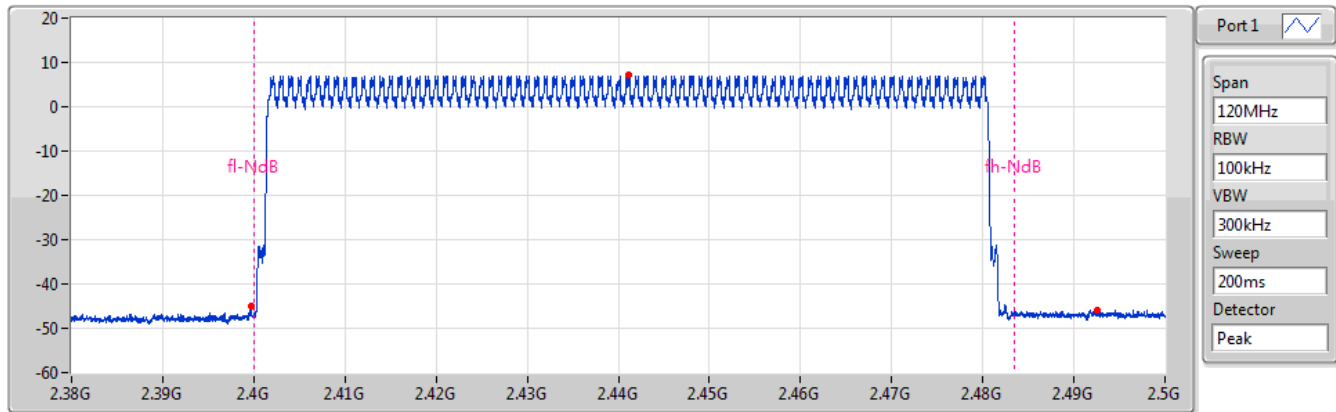
Detector
Peak


Hopping No	Limit
79	15

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

Hopping Ch Bandedge (Non-restricted Band)

28/09/2021



Port 1 

Span
120MHz

RBW
100kHz

VBW
300kHz

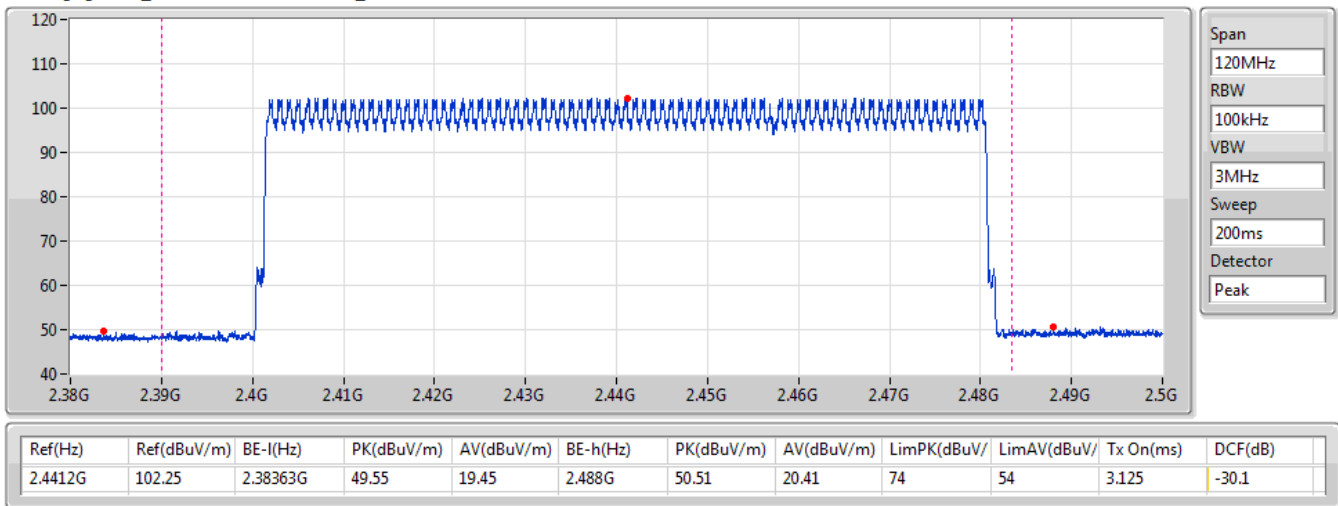
Sweep
200ms

Detector
Peak

Limit(dBm)	Ref(Hz)	Ref(dBm)	BE-l(Hz)	BE-l(dBm)	BE-h(Hz)	BE-h(dBm)
-12.96	2.4412G	7.04	2.399665G	-45.06	2.49262G	-45.79

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

28/09/2021





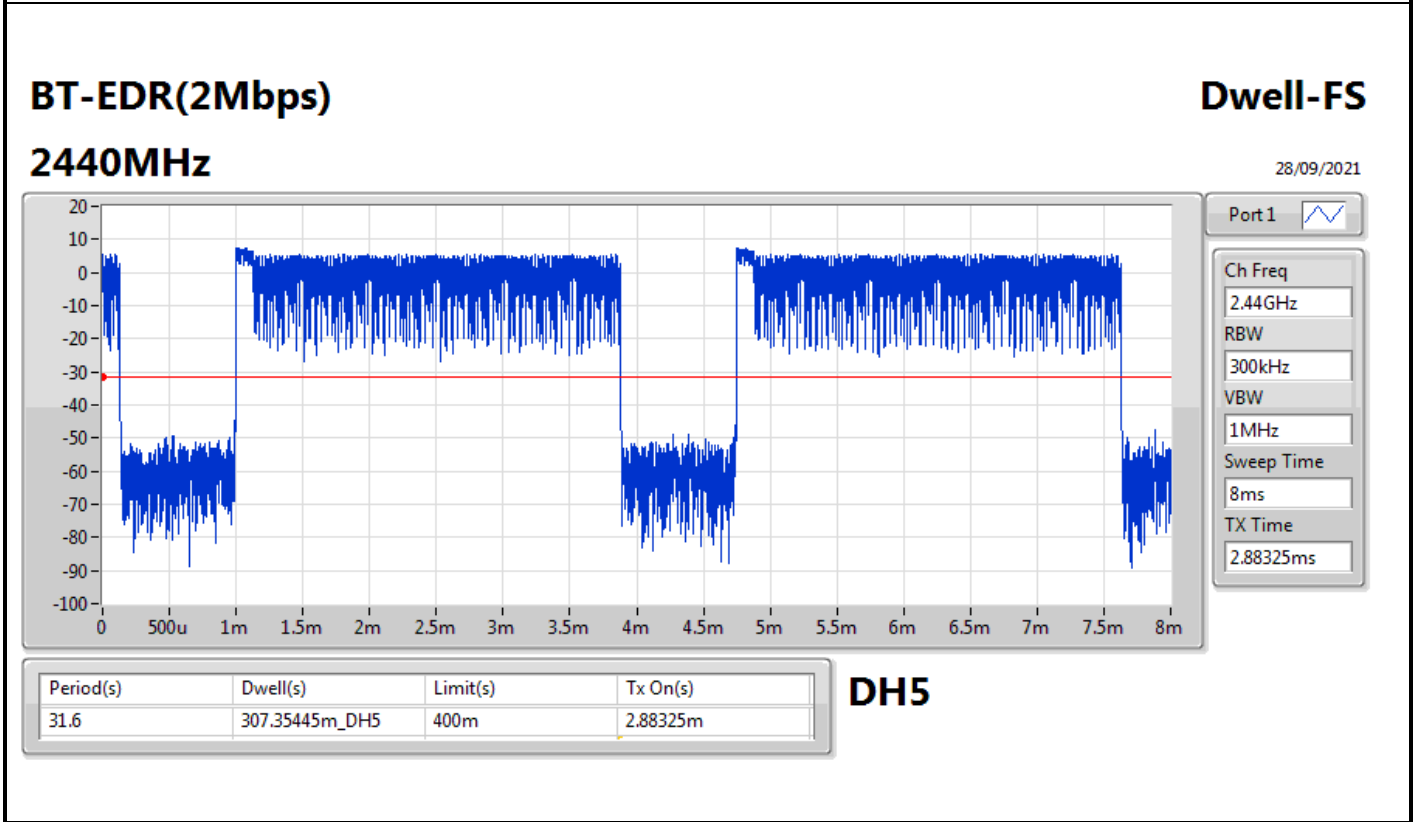
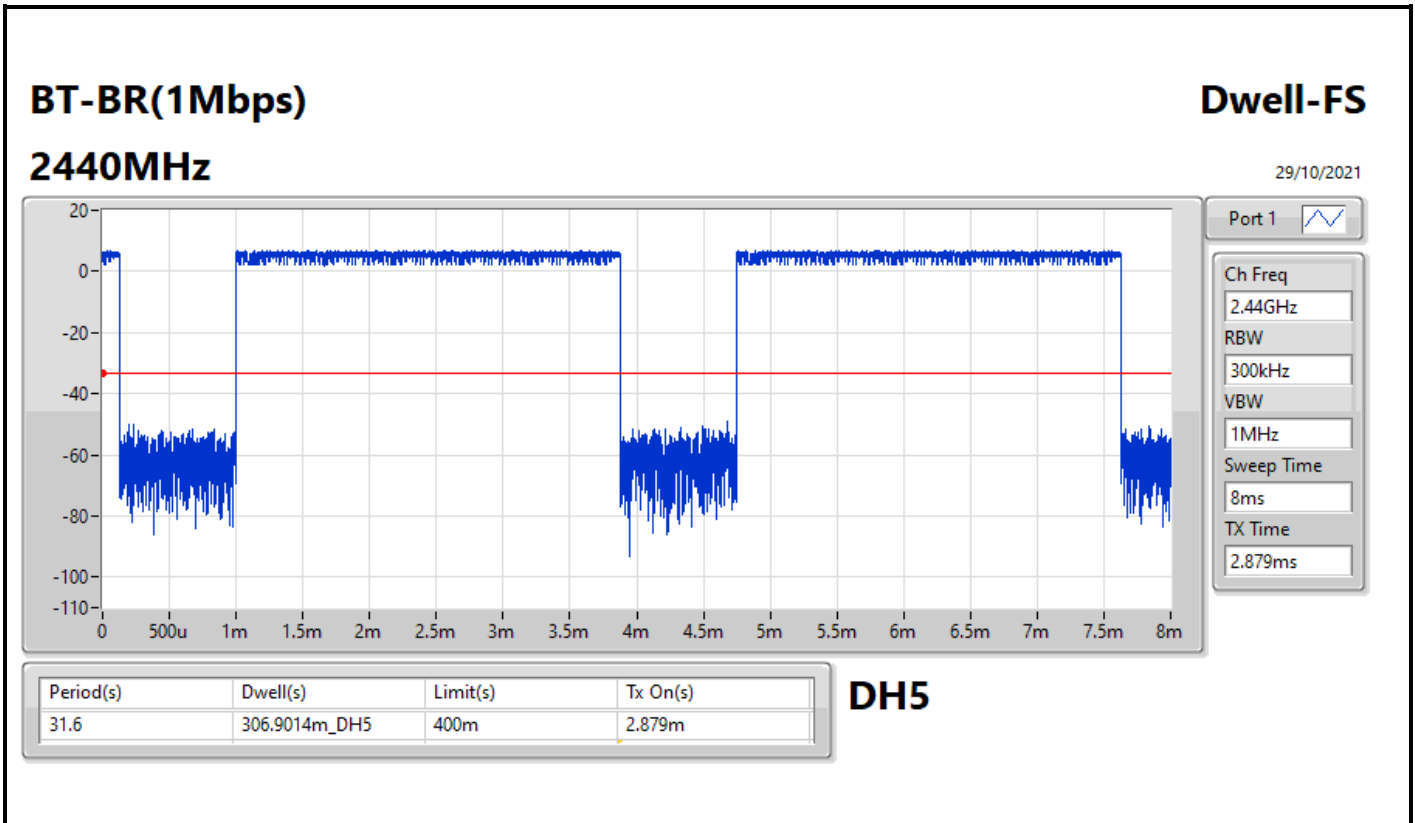
Summary

Mode	Max-Dwell (s)
2.4-2.4835GHz	-
BT-BR(1Mbps)	306.9014m_DH5
BT-EDR(2Mbps)	307.35445m_DH5
BT-EDR(3Mbps)	307.67425m_DH5



Result

Mode	Result	Period (s)	Dwell (s)	Limit (s)	Tx On (s)
BT-BR(1Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	306.9014m_DH5	400m	2.879m
BT-EDR(2Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	307.35445m_DH5	400m	2.88325m
BT-EDR(3Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	307.67425m_DH5	400m	2.88625m

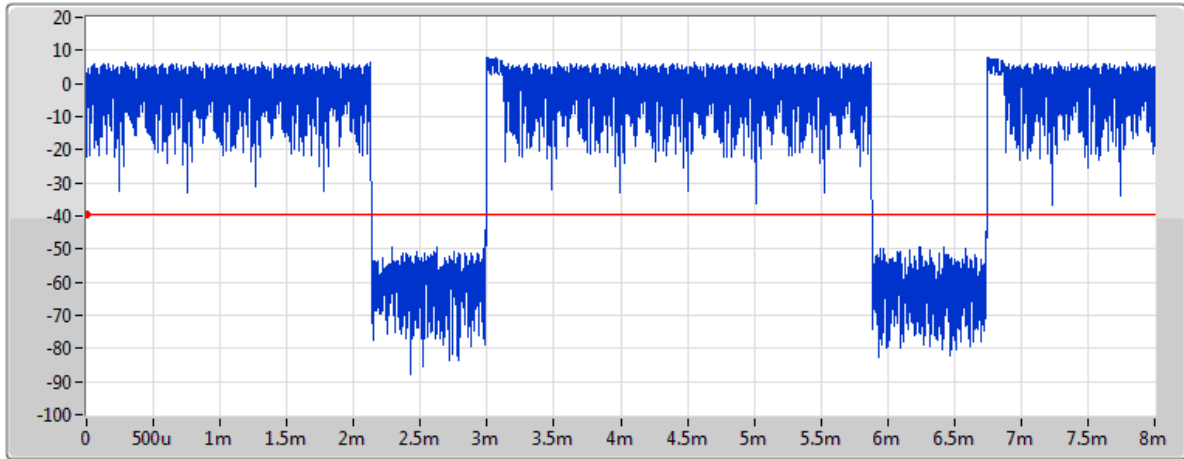


BT-EDR(3Mbps)

Dwell-FS

2440MHz

28/09/2021



Port 1 

Ch Freq
2.44GHz

RBW
300kHz

VBW
1MHz

Sweep Time
8ms

TX Time
2.88625ms

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	307.67425m_DH5	400m	2.88625m

DH5



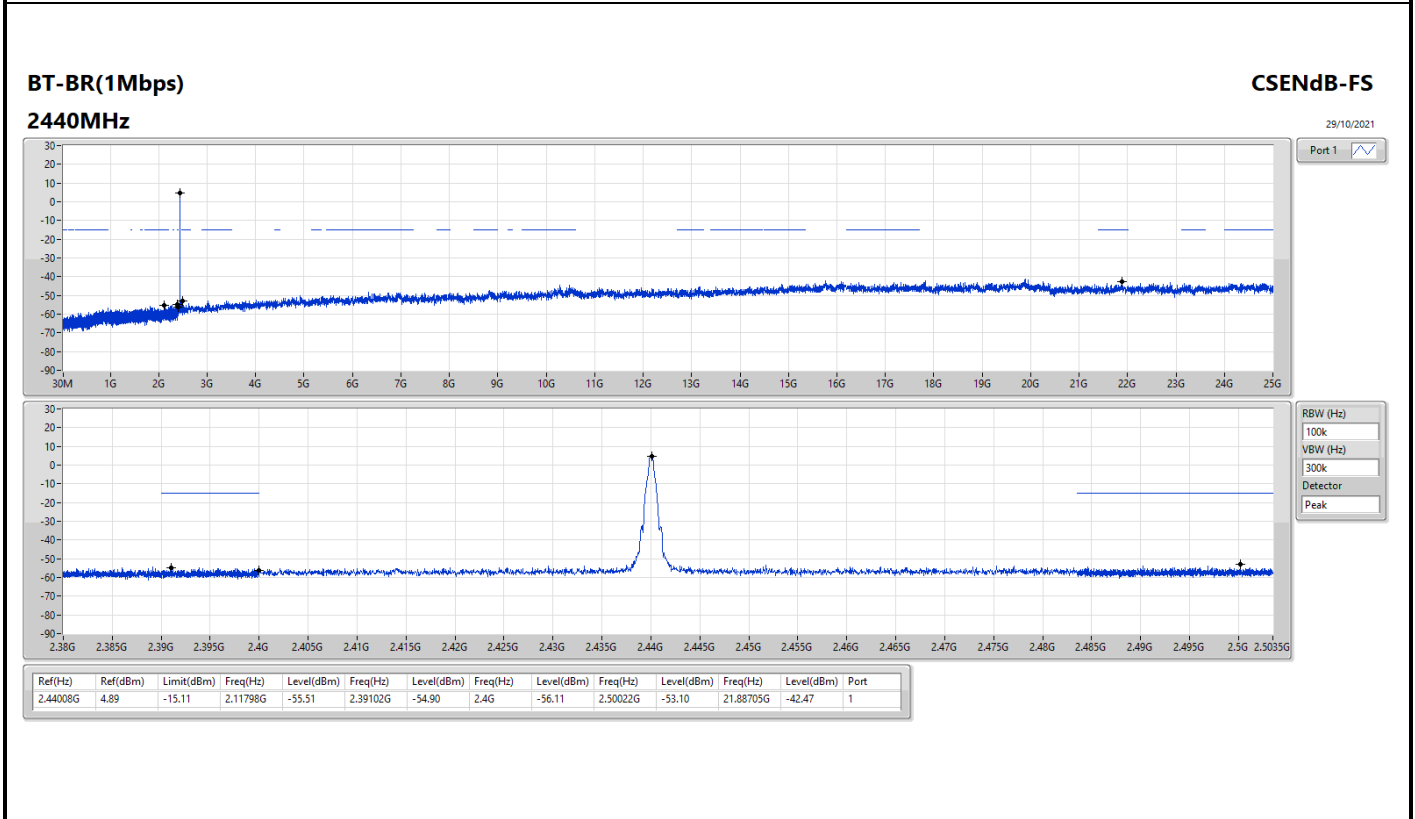
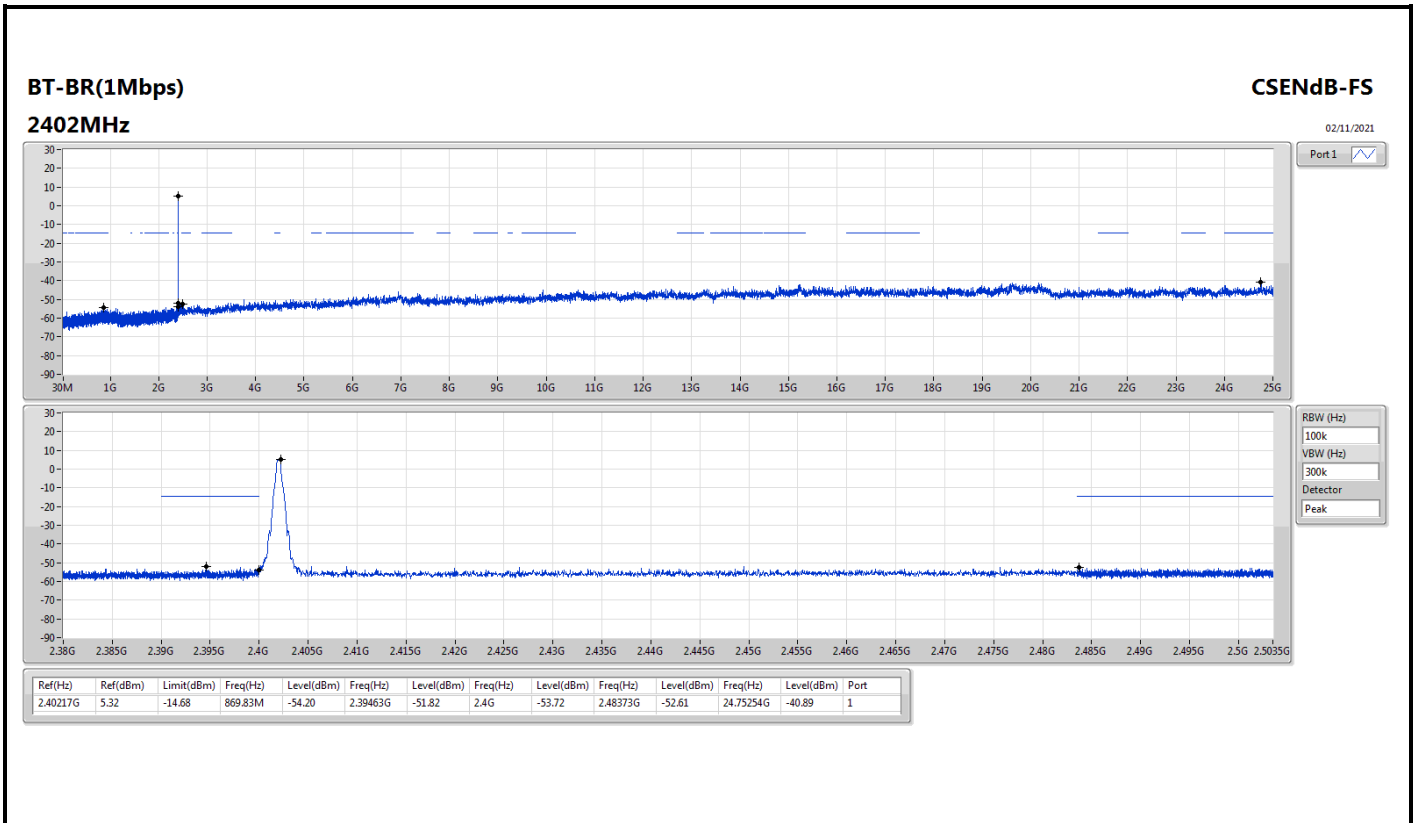
Summary

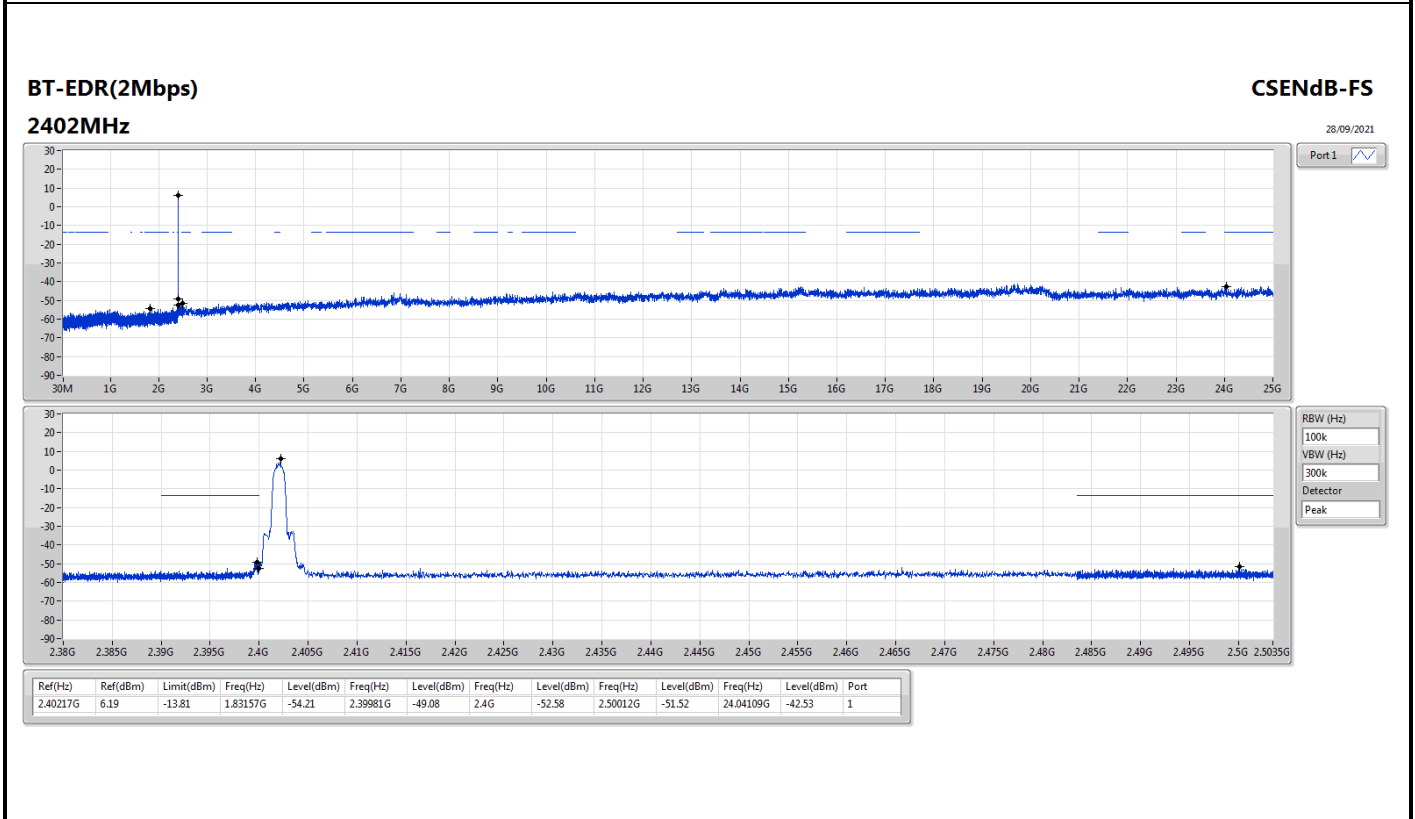
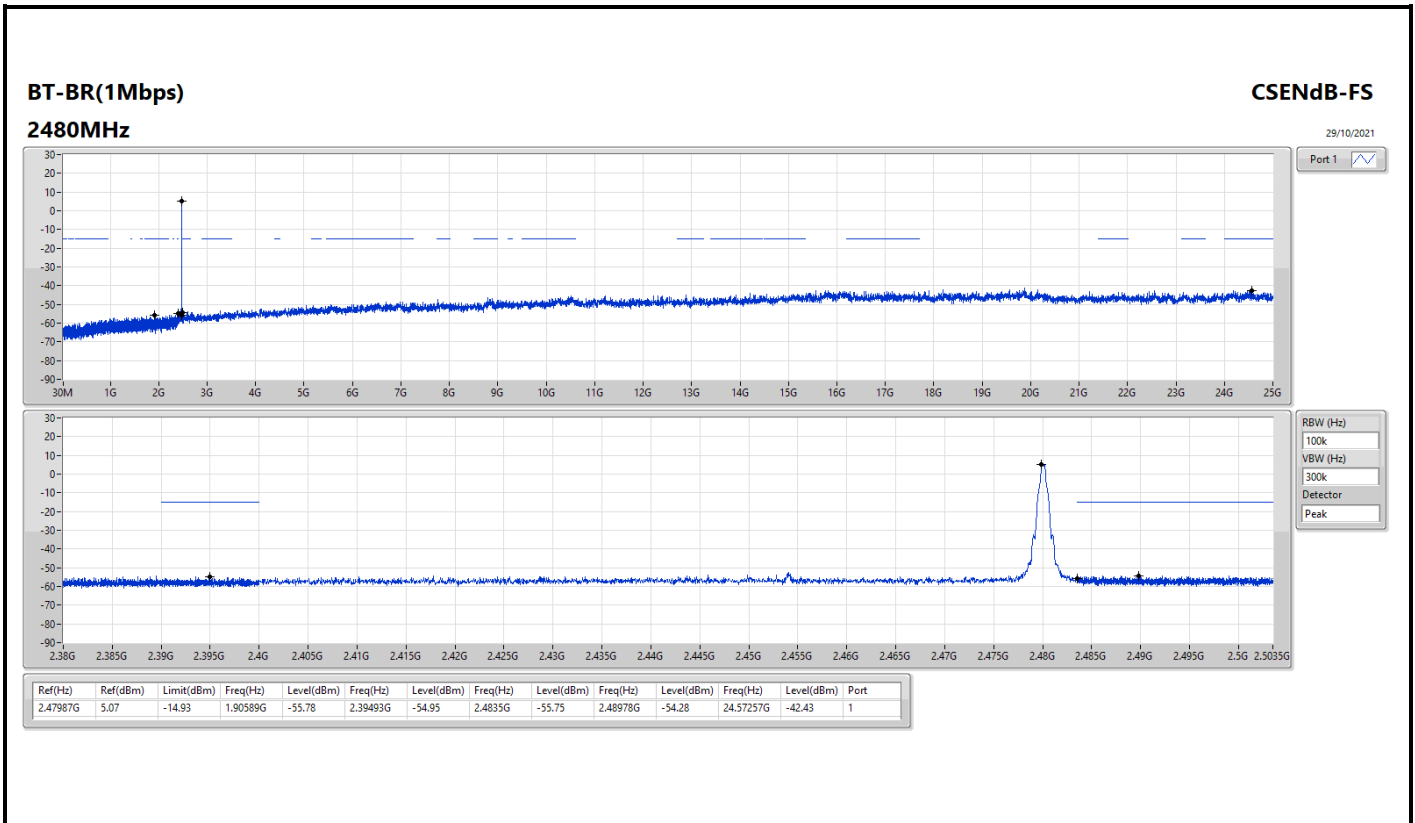
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-BR(1Mbps)	Pass	2.40217G	5.32	-14.68	869.83M	-54.20	2.39463G	-51.82	2.4G	-53.72	2.48373G	-52.61	24.75254G	-40.89	1
BT-EDR(2Mbps)	Pass	2.40217G	6.19	-13.81	1.83157G	-54.21	2.39981G	-49.08	2.4G	-52.58	2.50012G	-51.52	24.04109G	-42.53	1
BT-EDR(3Mbps)	Pass	2.40217G	6.46	-13.54	2.01311G	-53.77	2.39952G	-48.70	2.4G	-49.84	2.49378G	-52.20	24.33073G	-40.73	1

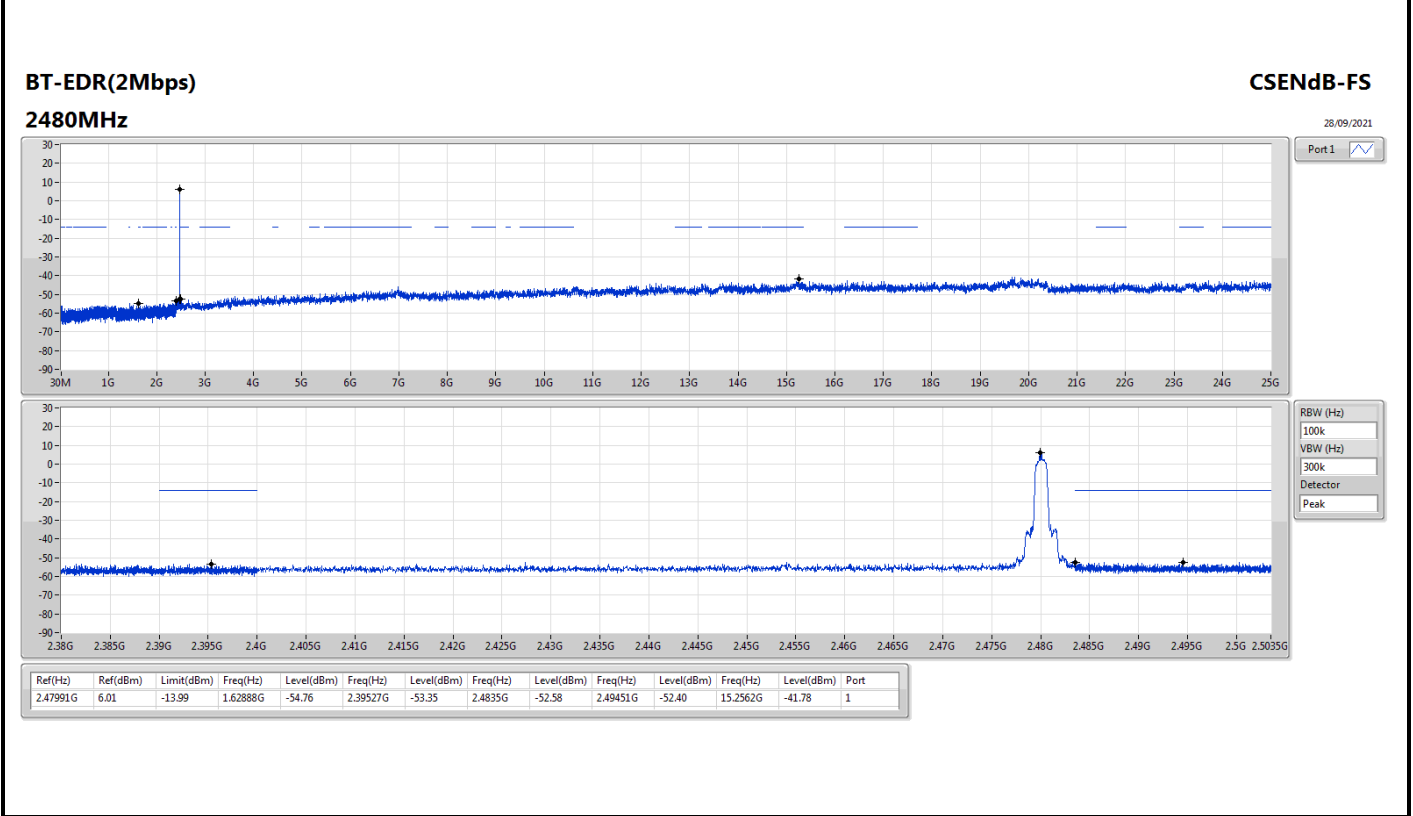
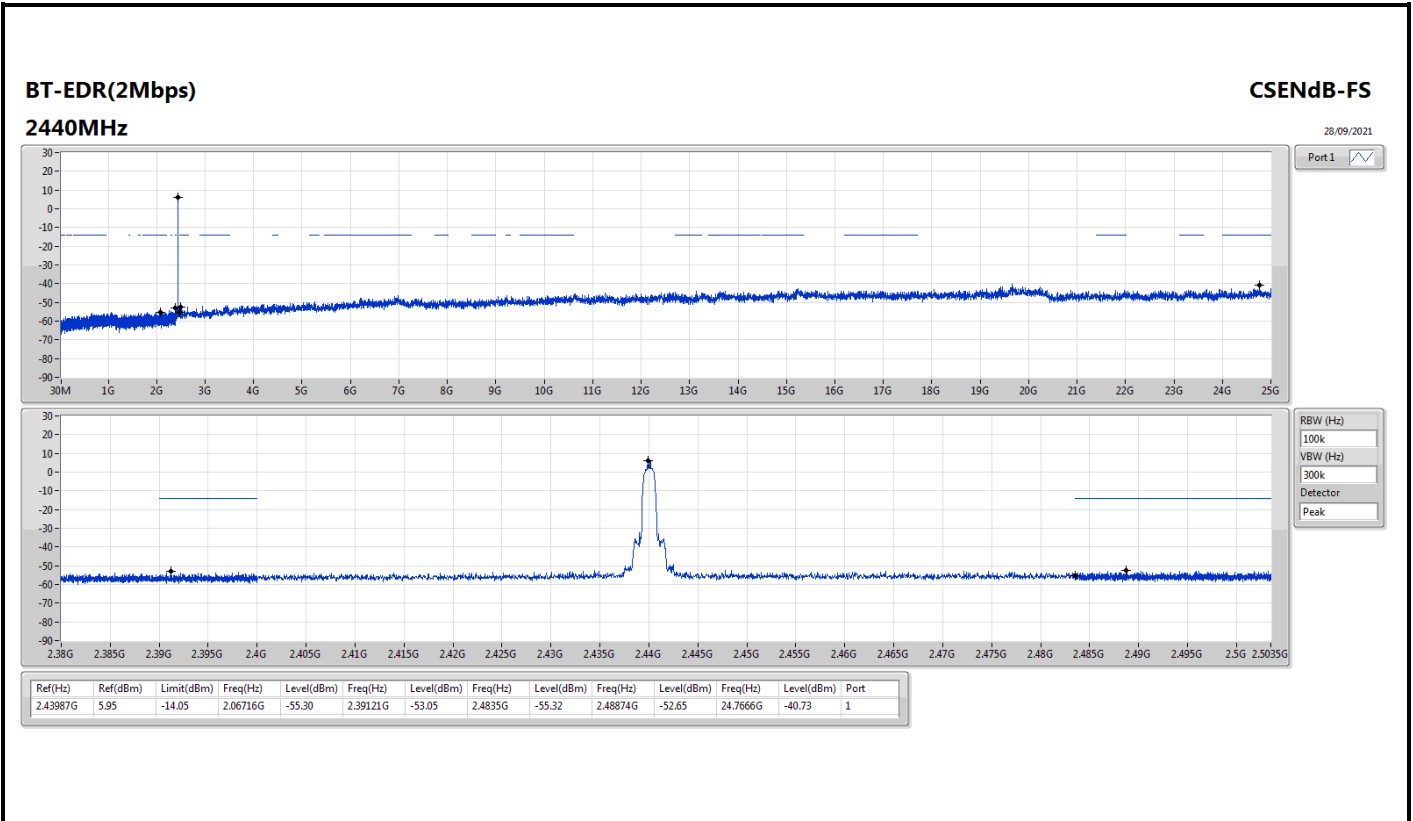


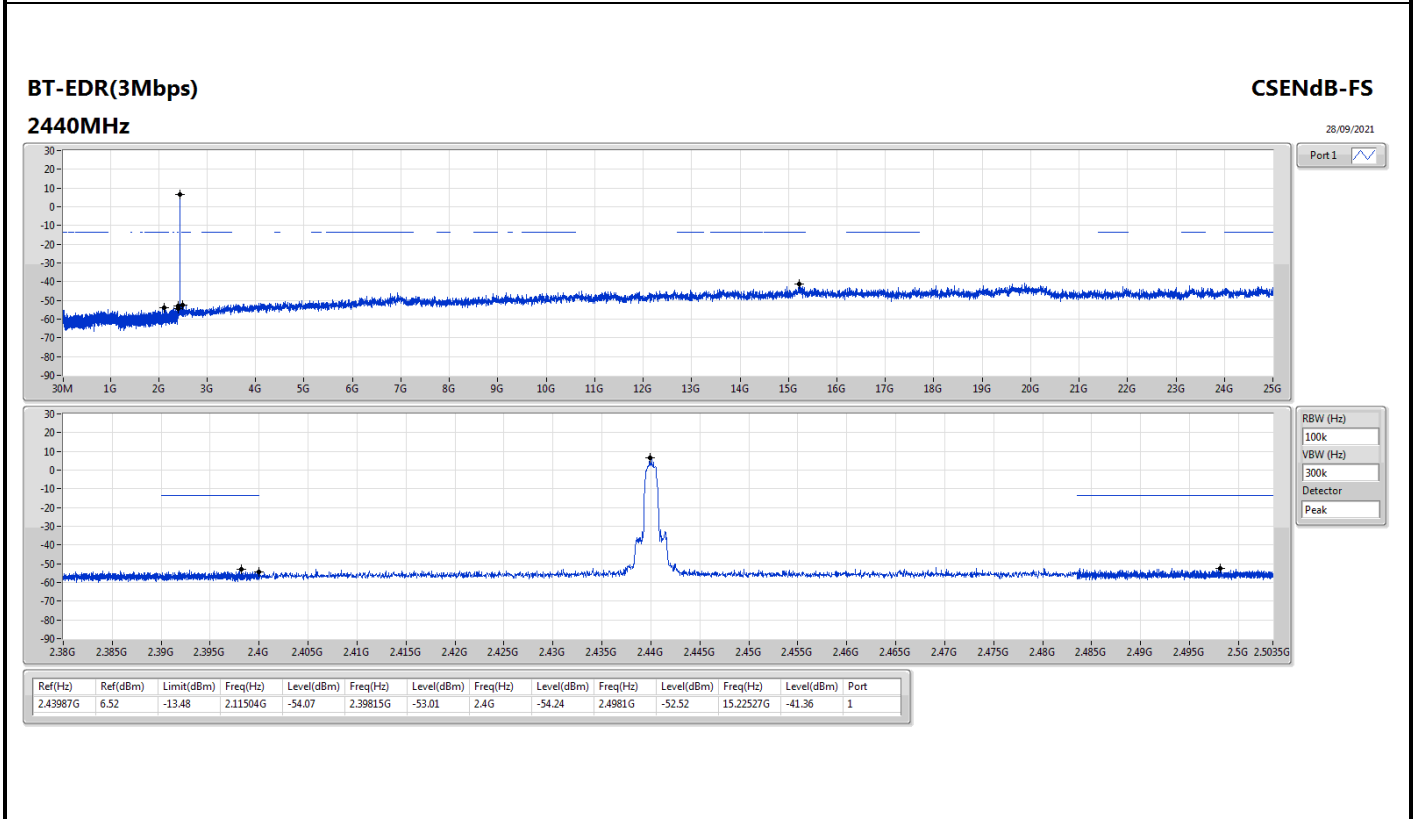
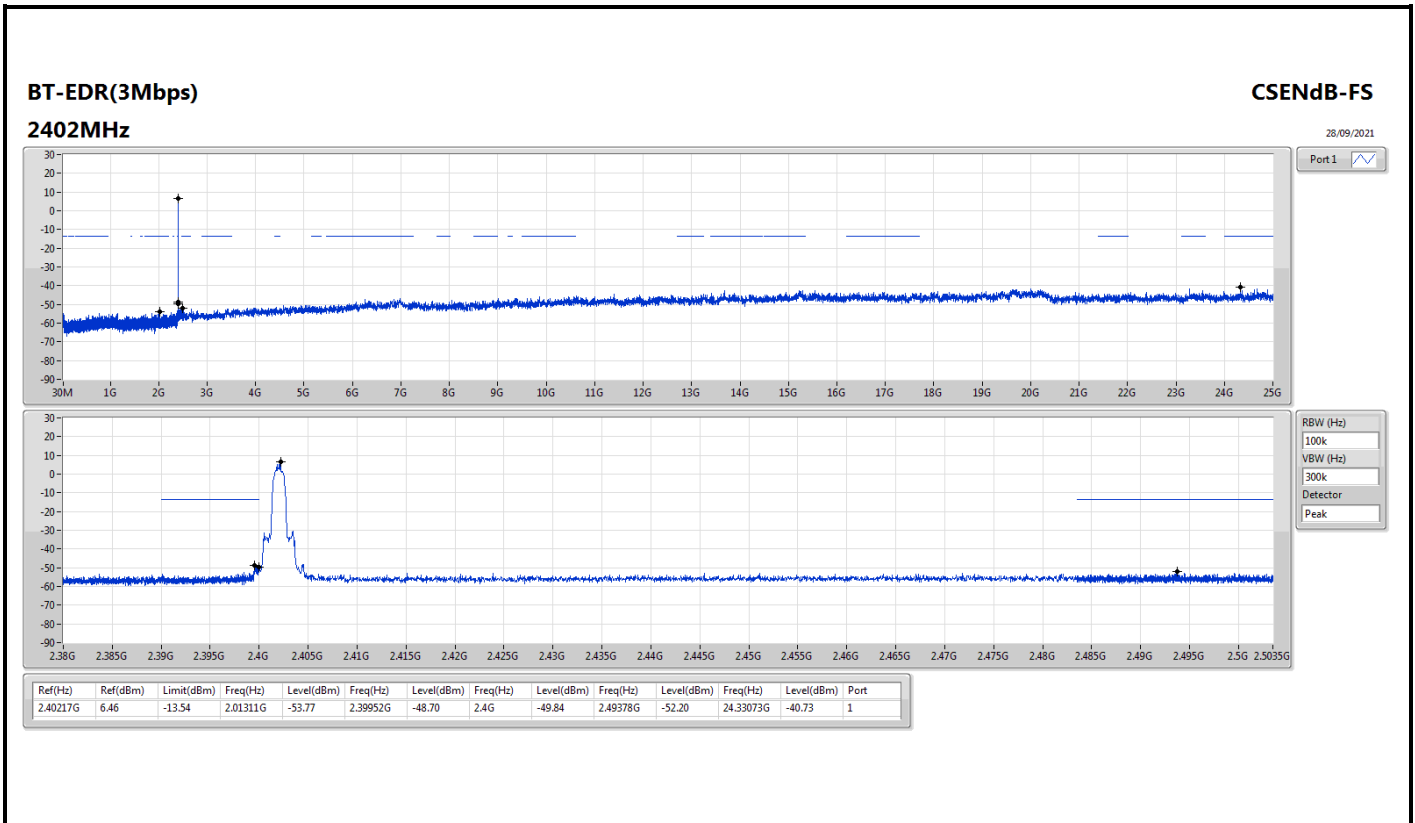
Result

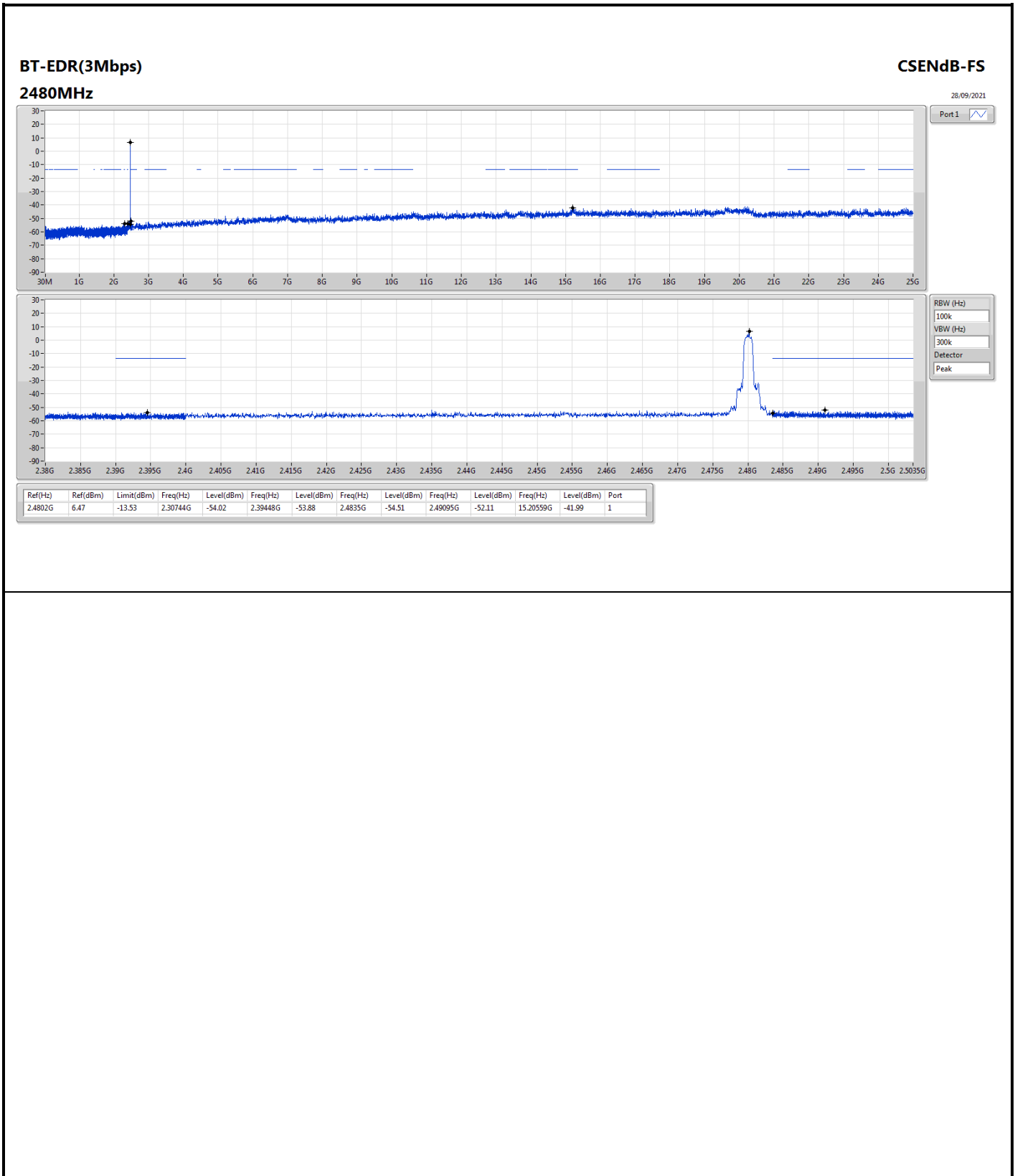
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40217G	5.32	-14.68	869.83M	-54.20	2.39463G	-51.82	2.4G	-53.72	2.48373G	-52.61	24.75254G	-40.89	1
2440MHz	Pass	2.44008G	4.89	-15.11	2.11798G	-55.51	2.39102G	-54.90	2.4G	-56.11	2.50022G	-53.10	21.88705G	-42.47	1
2480MHz	Pass	2.47987G	5.07	-14.93	1.90589G	-55.78	2.39493G	-54.95	2.4835G	-55.75	2.48978G	-54.28	24.57257G	-42.43	1
BT-EDR(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40217G	6.19	-13.81	1.83157G	-54.21	2.39981G	-49.08	2.4G	-52.58	2.50012G	-51.52	24.04109G	-42.53	1
2440MHz	Pass	2.43987G	5.95	-14.05	2.06716G	-55.30	2.39121G	-53.05	2.4835G	-55.32	2.48874G	-52.65	24.7666G	-40.73	1
2480MHz	Pass	2.47991G	6.01	-13.99	1.62888G	-54.76	2.39527G	-53.35	2.4835G	-52.58	2.49451G	-52.40	15.2562G	-41.78	1
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40217G	6.46	-13.54	2.01311G	-53.77	2.39952G	-48.70	2.4G	-49.84	2.49378G	-52.20	24.33073G	-40.73	1
2440MHz	Pass	2.43987G	6.52	-13.48	2.11504G	-54.07	2.39815G	-53.01	2.4G	-54.24	2.4981G	-52.52	15.22527G	-41.36	1
2480MHz	Pass	2.4802G	6.47	-13.53	2.30744G	-54.02	2.39448G	-53.88	2.4835G	-54.51	2.49095G	-52.11	15.20559G	-41.99	1













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	PK	183.26M	39.24	43.50	-4.26	3	Horizontal	0	1.00	-

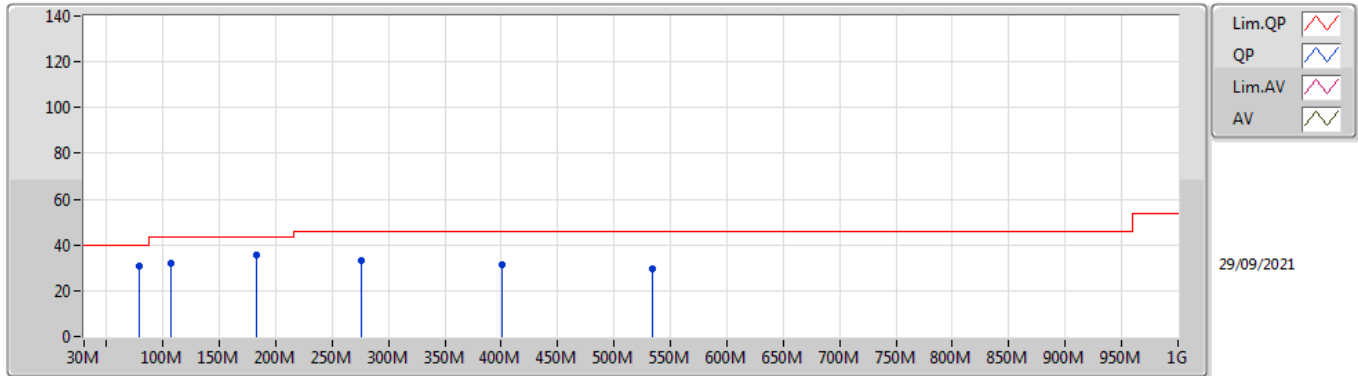


Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	PK	78.5M	30.52	40.00	-9.48	3	Vertical	360	1.00	-
2440MHz	Pass	PK	107.6M	31.78	43.50	-11.72	3	Vertical	360	1.00	-
2440MHz	Pass	PK	183.26M	35.89	43.50	-7.61	3	Vertical	360	1.00	-
2440MHz	Pass	PK	276.38M	33.37	46.00	-12.63	3	Vertical	360	1.00	-
2440MHz	Pass	PK	400.54M	31.08	46.00	-14.92	3	Vertical	360	1.00	-
2440MHz	Pass	PK	534.4M	29.35	46.00	-16.65	3	Vertical	360	1.00	-
2440MHz	Pass	PK	51.34M	24.91	40.00	-15.09	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	107.6M	36.13	43.50	-7.37	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	167.74M	37.61	43.50	-5.89	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	183.26M	39.24	43.50	-4.26	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	336.52M	36.72	46.00	-9.28	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	383.08M	38.78	46.00	-7.22	3	Horizontal	0	1.00	-

BT-BR(1Mbps)

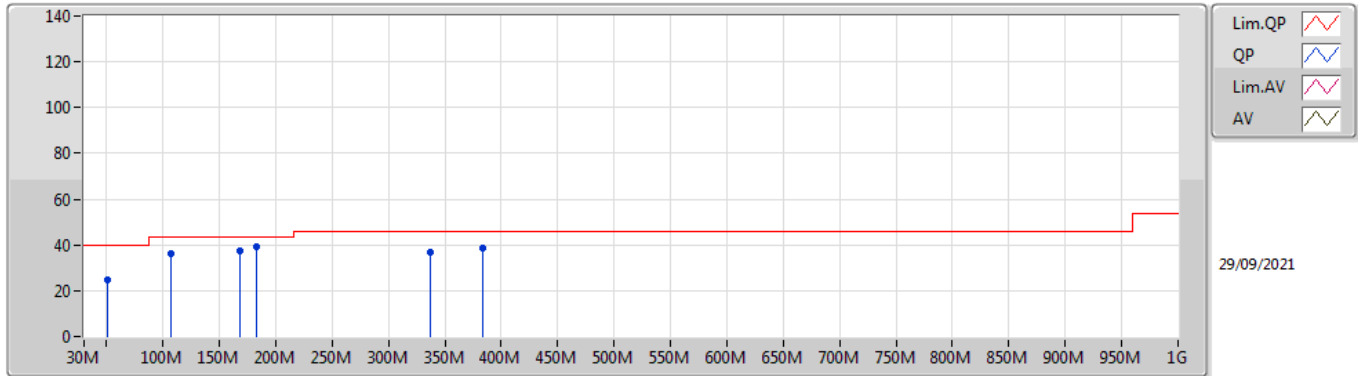
2440MHz_USB



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	78.5M	30.52	40.00	-9.48	-23.54	3	Vertical	360	1.00	-	54.06	12.46	0.88	36.88
PK	107.6M	31.78	43.50	-11.72	-19.63	3	Vertical	360	1.00	-	51.41	16.00	1.01	36.64
PK	183.26M	35.89	43.50	-7.61	-20.97	3	Vertical	360	1.00	-	56.86	14.14	1.29	36.40
PK	276.38M	33.37	46.00	-12.63	-16.89	3	Vertical	360	1.00	-	50.26	17.94	1.59	36.42
PK	400.54M	31.08	46.00	-14.92	-13.59	3	Vertical	360	1.00	-	44.67	21.07	1.91	36.57
PK	534.4M	29.35	46.00	-16.65	-11.64	3	Vertical	360	1.00	-	40.99	23.08	2.33	37.05

BT-BR(1Mbps)

2440MHz_USB



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	51.34M	24.91	40.00	-15.09	-23.43	3	Horizontal	0	1.00	-	48.34	12.85	0.83	37.11
PK	107.6M	36.13	43.50	-7.37	-19.63	3	Horizontal	0	1.00	-	55.76	16.00	1.01	36.64
PK	167.74M	37.61	43.50	-5.89	-20.08	3	Horizontal	0	1.00	-	57.69	15.06	1.25	36.39
PK	183.26M	39.24	43.50	-4.26	-20.97	3	Horizontal	0	1.00	-	60.21	14.14	1.29	36.40
PK	336.52M	36.72	46.00	-9.28	-15.65	3	Horizontal	0	1.00	-	52.37	19.12	1.74	36.51
PK	383.08M	38.78	46.00	-7.22	-14.32	3	Horizontal	0	1.00	-	53.10	20.38	1.86	36.56



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	PK	2.384G	58.04	74.00	-15.96	3	Vertical	271	1.14	-
BT-EDR(3Mbps)	Pass	PK	2.4835G	59.59	74.00	-14.41	3	Vertical	100	1.00	-



Result

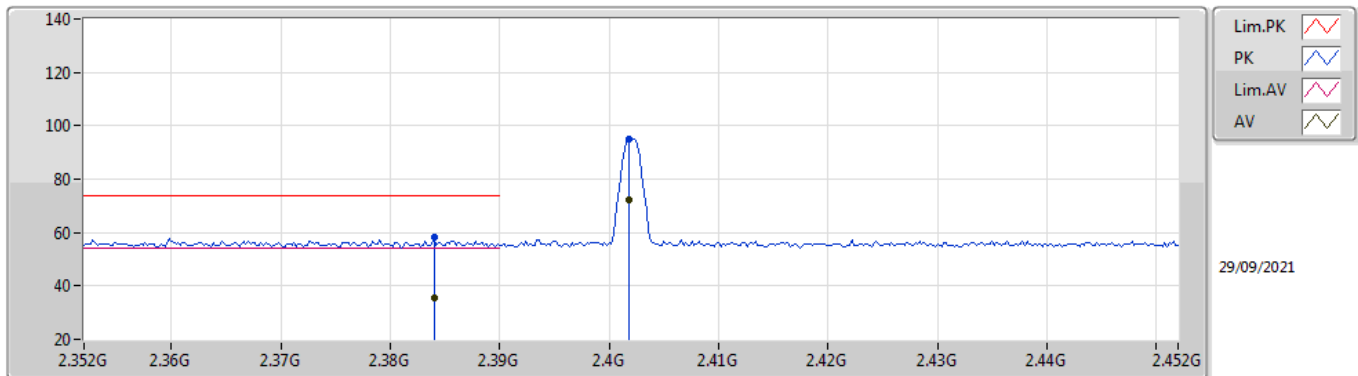
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.384G	35.54	54.00	-18.46	3	Vertical	271	1.14	-
2402MHz	Pass	AV	2.4018G	72.42	Inf	-Inf	3	Vertical	271	1.14	-
2402MHz	Pass	PK	2.384G	58.04	74.00	-15.96	3	Vertical	271	1.14	-
2402MHz	Pass	PK	2.4018G	94.92	Inf	-Inf	3	Vertical	271	1.14	-
2402MHz	Pass	AV	2.385G	35.33	54.00	-18.67	3	Horizontal	126	1.15	-
2402MHz	Pass	AV	2.4018G	74.66	Inf	-Inf	3	Horizontal	126	1.15	-
2402MHz	Pass	PK	2.385G	57.83	74.00	-16.17	3	Horizontal	126	1.15	-
2402MHz	Pass	PK	2.4018G	97.16	Inf	-Inf	3	Horizontal	126	1.15	-
2402MHz	Pass	AV	4.80426G	31.61	54.00	-22.39	3	Vertical	42	1.34	-
2402MHz	Pass	PK	4.80426G	54.11	74.00	-19.89	3	Vertical	42	1.34	-
2402MHz	Pass	AV	4.80421G	27.42	54.00	-26.58	3	Horizontal	192	1.50	-
2402MHz	Pass	PK	4.80421G	49.92	74.00	-24.08	3	Horizontal	192	1.50	-
2440MHz	Pass	AV	2.3692G	35.39	54.00	-18.61	3	Vertical	270	1.29	-
2440MHz	Pass	AV	2.4404G	71.20	Inf	-Inf	3	Vertical	270	1.29	-
2440MHz	Pass	AV	2.4868G	35.21	54.00	-18.79	3	Vertical	270	1.29	-
2440MHz	Pass	PK	2.3692G	57.89	74.00	-16.11	3	Vertical	270	1.29	-
2440MHz	Pass	PK	2.4404G	93.70	Inf	-Inf	3	Vertical	270	1.29	-
2440MHz	Pass	PK	2.4868G	57.71	74.00	-16.29	3	Vertical	270	1.29	-
2440MHz	Pass	AV	2.3852G	34.66	54.00	-19.34	3	Horizontal	127	1.12	-
2440MHz	Pass	AV	2.44G	74.63	Inf	-Inf	3	Horizontal	127	1.12	-
2440MHz	Pass	AV	2.4908G	34.19	54.00	-19.81	3	Horizontal	127	1.12	-
2440MHz	Pass	PK	2.3852G	57.16	74.00	-16.84	3	Horizontal	127	1.12	-
2440MHz	Pass	PK	2.44G	97.13	Inf	-Inf	3	Horizontal	127	1.12	-
2440MHz	Pass	PK	2.4908G	56.69	74.00	-17.31	3	Horizontal	127	1.12	-
2440MHz	Pass	AV	4.88035G	31.21	54.00	-22.79	3	Vertical	44	1.15	-
2440MHz	Pass	PK	4.88035G	53.71	74.00	-20.29	3	Vertical	44	1.15	-
2440MHz	Pass	AV	4.87988G	26.28	54.00	-27.72	3	Horizontal	191	1.50	-
2440MHz	Pass	PK	4.87988G	48.78	74.00	-25.22	3	Horizontal	191	1.50	-
2480MHz	Pass	AV	2.4802G	71.64	Inf	-Inf	3	Vertical	300	1.01	-
2480MHz	Pass	AV	2.4882G	35.33	54.00	-18.67	3	Vertical	300	1.01	-
2480MHz	Pass	PK	2.4802G	94.14	Inf	-Inf	3	Vertical	300	1.01	-
2480MHz	Pass	PK	2.4882G	57.83	74.00	-16.17	3	Vertical	300	1.01	-
2480MHz	Pass	AV	2.4802G	74.36	Inf	-Inf	3	Horizontal	130	1.12	-
2480MHz	Pass	AV	2.4866G	35.17	54.00	-18.83	3	Horizontal	130	1.12	-
2480MHz	Pass	PK	2.4802G	96.86	Inf	-Inf	3	Horizontal	130	1.12	-
2480MHz	Pass	PK	2.4866G	57.67	74.00	-16.33	3	Horizontal	130	1.12	-
2480MHz	Pass	AV	4.96032G	30.04	54.00	-23.96	3	Vertical	47	1.10	-
2480MHz	Pass	PK	4.96032G	52.54	74.00	-21.46	3	Vertical	47	1.10	-
2480MHz	Pass	AV	4.9601G	26.43	54.00	-27.57	3	Horizontal	155	1.47	-
2480MHz	Pass	PK	4.9601G	48.93	74.00	-25.07	3	Horizontal	155	1.47	-
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.388G	34.81	54.00	-19.19	3	Vertical	102	1.63	-
2402MHz	Pass	AV	2.4022G	71.11	Inf	-Inf	3	Vertical	102	1.63	-
2402MHz	Pass	PK	2.388G	57.31	74.00	-16.69	3	Vertical	102	1.63	-
2402MHz	Pass	PK	2.4022G	93.61	Inf	-Inf	3	Vertical	102	1.63	-
2402MHz	Pass	AV	2.3776G	35.97	54.00	-18.03	3	Horizontal	60	1.00	-
2402MHz	Pass	AV	2.4022G	72.71	Inf	-Inf	3	Horizontal	60	1.00	-
2402MHz	Pass	PK	2.3776G	58.47	74.00	-15.53	3	Horizontal	60	1.00	-
2402MHz	Pass	PK	2.4022G	95.21	Inf	-Inf	3	Horizontal	60	1.00	-
2402MHz	Pass	AV	4.8039G	28.90	54.00	-25.10	3	Vertical	41	1.34	-
2402MHz	Pass	PK	4.8039G	51.40	74.00	-22.60	3	Vertical	41	1.34	-
2402MHz	Pass	AV	4.80416G	25.54	54.00	-28.46	3	Horizontal	193	1.51	-
2402MHz	Pass	PK	4.80416G	48.04	74.00	-25.96	3	Horizontal	193	1.51	-
2440MHz	Pass	AV	2.37G	34.68	54.00	-19.32	3	Vertical	98	1.00	-
2440MHz	Pass	AV	2.44G	71.50	Inf	-Inf	3	Vertical	98	1.00	-
2440MHz	Pass	AV	2.4876G	34.47	54.00	-19.53	3	Vertical	98	1.00	-
2440MHz	Pass	PK	2.37G	57.18	74.00	-16.82	3	Vertical	98	1.00	-
2440MHz	Pass	PK	2.44G	94.00	Inf	-Inf	3	Vertical	98	1.00	-
2440MHz	Pass	PK	2.4876G	56.97	74.00	-17.03	3	Vertical	98	1.00	-
2440MHz	Pass	AV	2.3536G	34.40	54.00	-19.60	3	Horizontal	58	1.13	-



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2440MHz	Pass	AV	2.44G	71.78	Inf	-Inf	3	Horizontal	58	1.13	-
2440MHz	Pass	AV	2.4904G	34.88	54.00	-19.12	3	Horizontal	58	1.13	-
2440MHz	Pass	PK	2.3536G	56.90	74.00	-17.10	3	Horizontal	58	1.13	-
2440MHz	Pass	PK	2.44G	94.28	Inf	-Inf	3	Horizontal	58	1.13	-
2440MHz	Pass	PK	2.4904G	57.38	74.00	-16.62	3	Horizontal	58	1.13	-
2440MHz	Pass	AV	4.88028G	27.70	54.00	-26.30	3	Vertical	16	1.05	-
2440MHz	Pass	PK	4.88028G	50.20	74.00	-23.80	3	Vertical	16	1.05	-
2440MHz	Pass	AV	4.8801G	26.73	54.00	-27.27	3	Horizontal	124	1.00	-
2440MHz	Pass	PK	4.8801G	49.23	74.00	-24.77	3	Horizontal	124	1.00	-
2480MHz	Pass	AV	2.4802G	70.48	Inf	-Inf	3	Vertical	100	1.00	-
2480MHz	Pass	AV	2.4835G	37.09	54.00	-16.91	3	Vertical	100	1.00	-
2480MHz	Pass	PK	2.4802G	92.98	Inf	-Inf	3	Vertical	100	1.00	-
2480MHz	Pass	PK	2.4835G	59.59	74.00	-14.41	3	Vertical	100	1.00	-
2480MHz	Pass	AV	2.4802G	71.06	Inf	-Inf	3	Horizontal	58	1.24	-
2480MHz	Pass	AV	2.4835G	35.99	54.00	-18.01	3	Horizontal	58	1.24	-
2480MHz	Pass	PK	2.4802G	93.56	Inf	-Inf	3	Horizontal	58	1.24	-
2480MHz	Pass	PK	2.4835G	58.49	74.00	-15.51	3	Horizontal	58	1.24	-
2480MHz	Pass	AV	4.95997G	26.46	54.00	-27.54	3	Vertical	32	2.90	-
2480MHz	Pass	PK	4.95997G	48.96	74.00	-25.04	3	Vertical	32	2.90	-
2480MHz	Pass	AV	4.95966G	26.24	54.00	-27.76	3	Horizontal	155	1.39	-
2480MHz	Pass	PK	4.95966G	48.74	74.00	-25.26	3	Horizontal	155	1.39	-

BT-BR(1Mbps)

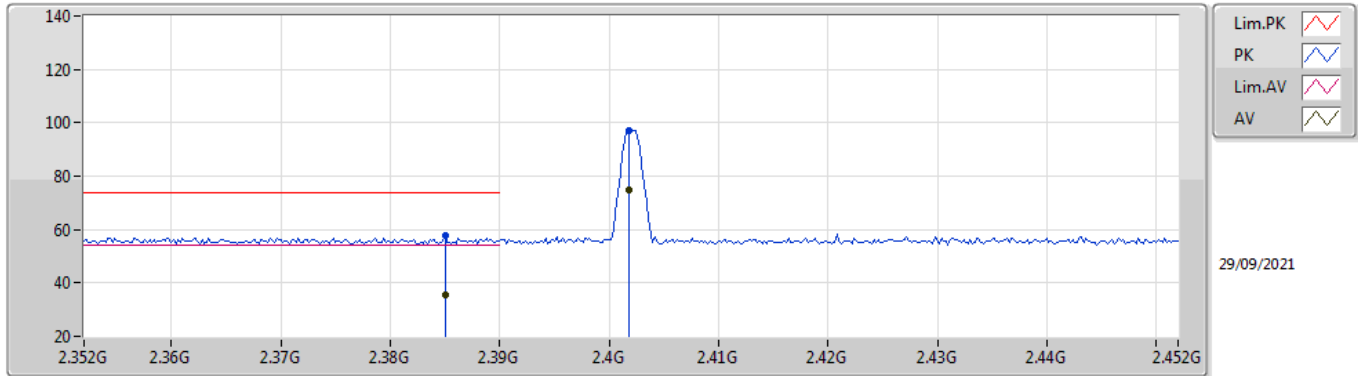
2402MHz_TX



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)
AV	2.384G	35.54	54.00	-18.46	32.22	3	Vertical	271	1.14	-	3.32	27.66	4.56	-
AV	2.4018G	72.42	Inf	-Inf	32.18	3	Vertical	271	1.14	-	40.24	27.60	4.58	-
PK	2.384G	58.04	74.00	-15.96	32.22	3	Vertical	271	1.14	-	25.82	27.66	4.56	-
PK	2.4018G	94.92	Inf	-Inf	32.18	3	Vertical	271	1.14	-	62.74	27.60	4.58	-

BT-BR(1Mbps)

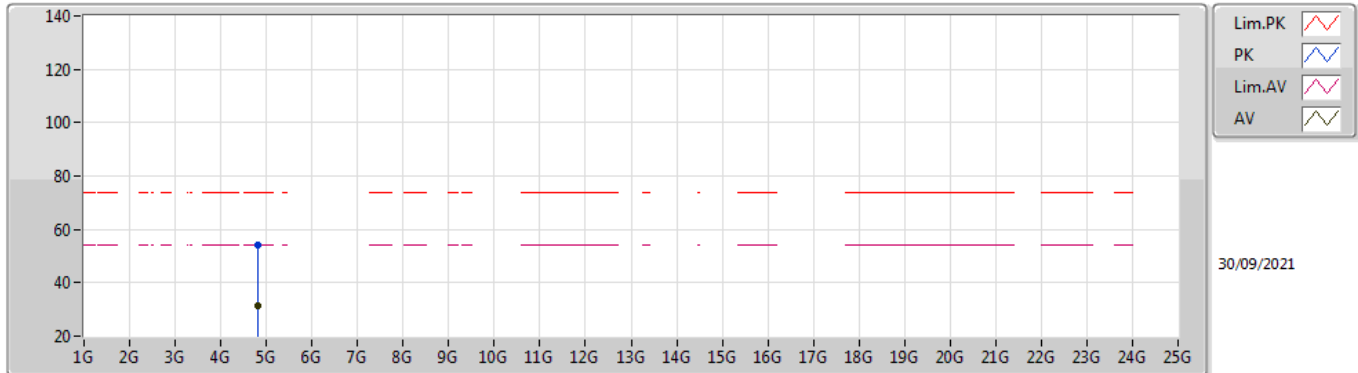
2402MHz_TX



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)
AV	2.385G	35.33	54.00	-18.67	32.23	3	Horizontal	126	1.15	-	3.10	27.66	4.57	-
AV	2.4018G	74.66	Inf	-Inf	32.18	3	Horizontal	126	1.15	-	42.48	27.60	4.58	-
PK	2.385G	57.83	74.00	-16.17	32.23	3	Horizontal	126	1.15	-	25.60	27.66	4.57	-
PK	2.4018G	97.16	Inf	-Inf	32.18	3	Horizontal	126	1.15	-	64.98	27.60	4.58	-

BT-BR(1Mbps)

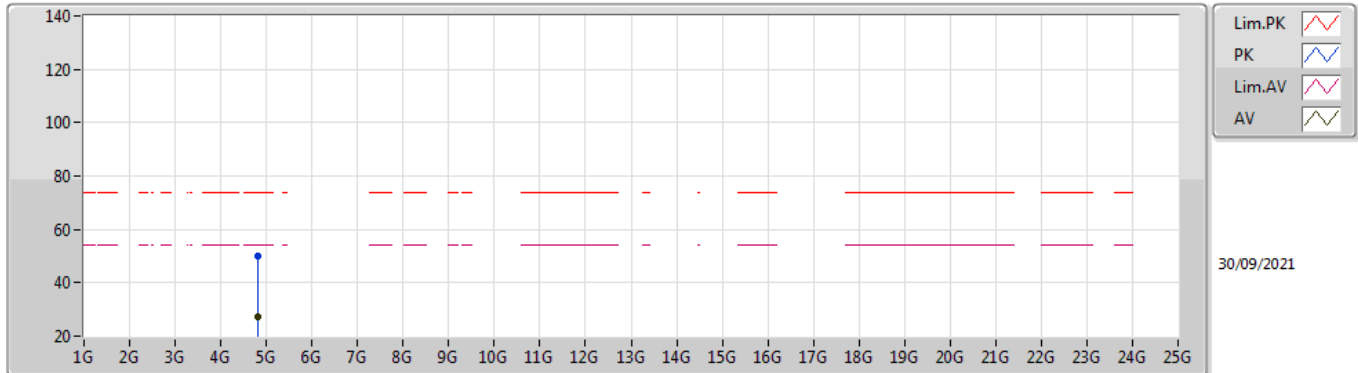
2402MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.80426G	31.61	54.00	-22.39	2.95	3	Vertical	42	1.34	-	28.66	31.10	6.66	34.81
PK	4.80426G	54.11	74.00	-19.89	2.95	3	Vertical	42	1.34	-	51.16	31.10	6.66	34.81

BT-BR(1Mbps)

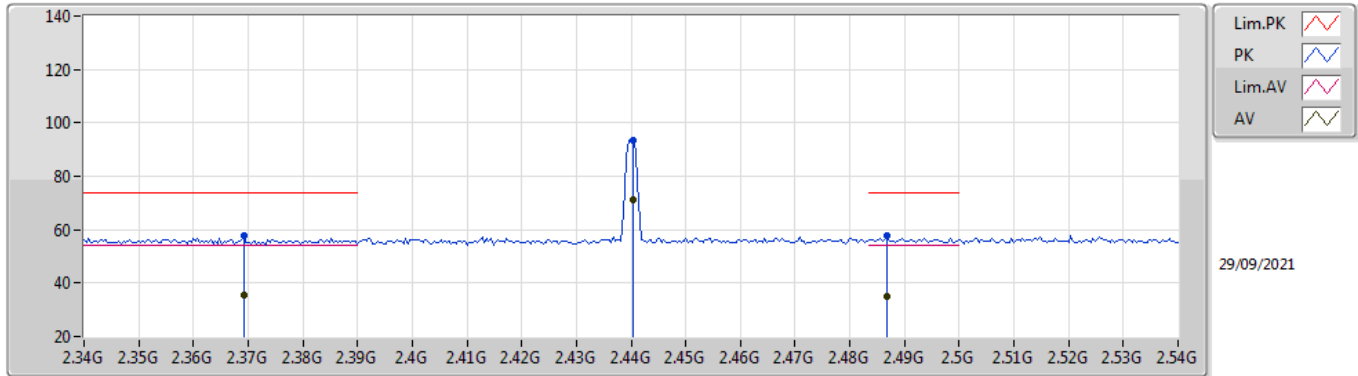
2402MHz_TX



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)
AV	4.80421G	27.42	54.00	-26.58	2.95	3	Horizontal	192	1.50	-	24.47	31.10	6.66	34.81
PK	4.80421G	49.92	74.00	-24.08	2.95	3	Horizontal	192	1.50	-	46.97	31.10	6.66	34.81

BT-BR(1Mbps)

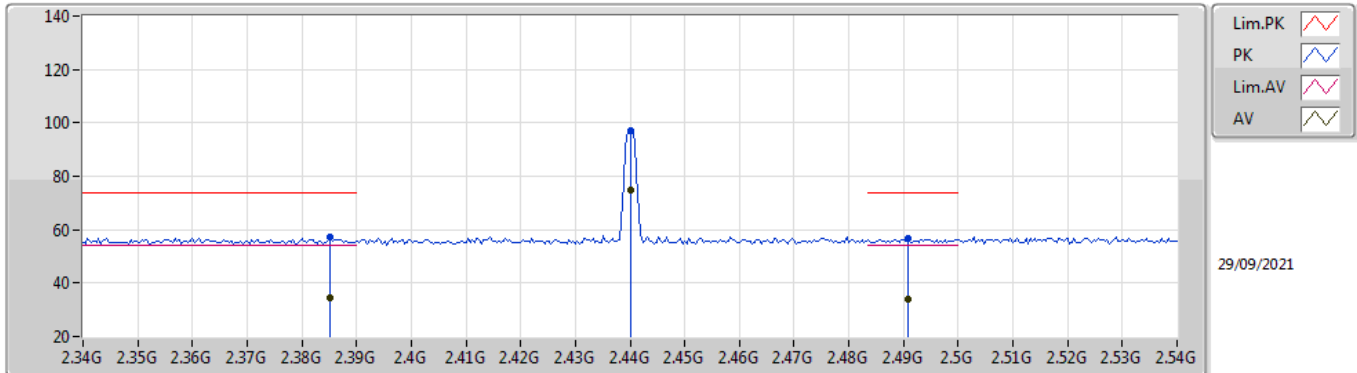
2440MHz_TX



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)
AV	2.3692G	35.39	54.00	-18.61	32.27	3	Vertical	270	1.29	-	3.12	27.72	4.55	-
AV	2.4404G	71.20	Inf	-Inf	32.12	3	Vertical	270	1.29	-	39.08	27.52	4.60	-
AV	2.4868G	35.21	54.00	-18.79	32.11	3	Vertical	270	1.29	-	3.10	27.50	4.61	-
PK	2.3692G	57.89	74.00	-16.11	32.27	3	Vertical	270	1.29	-	25.62	27.72	4.55	-
PK	2.4404G	93.70	Inf	-Inf	32.12	3	Vertical	270	1.29	-	61.58	27.52	4.60	-
PK	2.4868G	57.71	74.00	-16.29	32.11	3	Vertical	270	1.29	-	25.60	27.50	4.61	-

BT-BR(1Mbps)

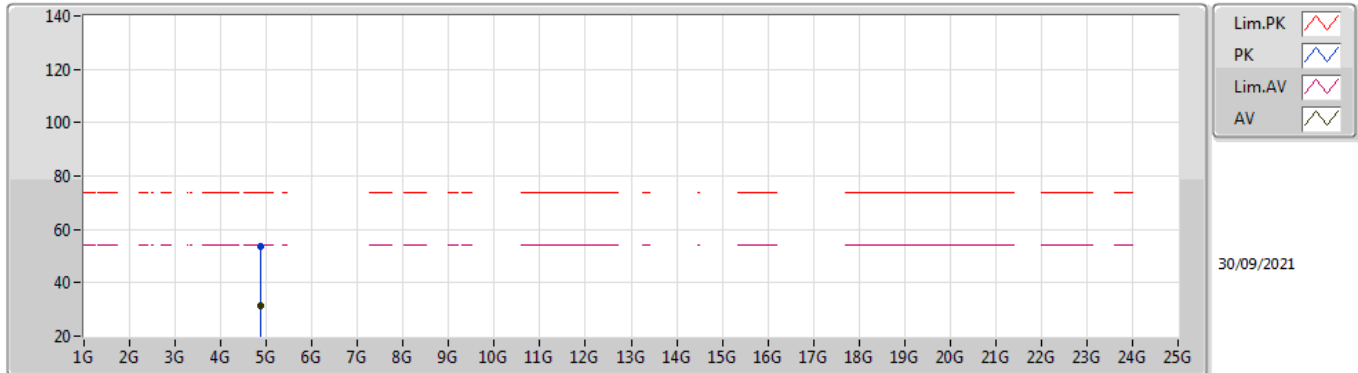
2440MHz_TX



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)
AV	2.3852G	34.66	54.00	-19.34	32.23	3	Horizontal	127	1.12	-	2.43	27.66	4.57	-
AV	2.44G	74.63	Inf	-Inf	32.12	3	Horizontal	127	1.12	-	42.51	27.52	4.60	-
AV	2.4908G	34.19	54.00	-19.81	32.12	3	Horizontal	127	1.12	-	2.07	27.50	4.62	-
PK	2.3852G	57.16	74.00	-16.84	32.23	3	Horizontal	127	1.12	-	24.93	27.66	4.57	-
PK	2.44G	97.13	Inf	-Inf	32.12	3	Horizontal	127	1.12	-	65.01	27.52	4.60	-
PK	2.4908G	56.69	74.00	-17.31	32.12	3	Horizontal	127	1.12	-	24.57	27.50	4.62	-

BT-BR(1Mbps)

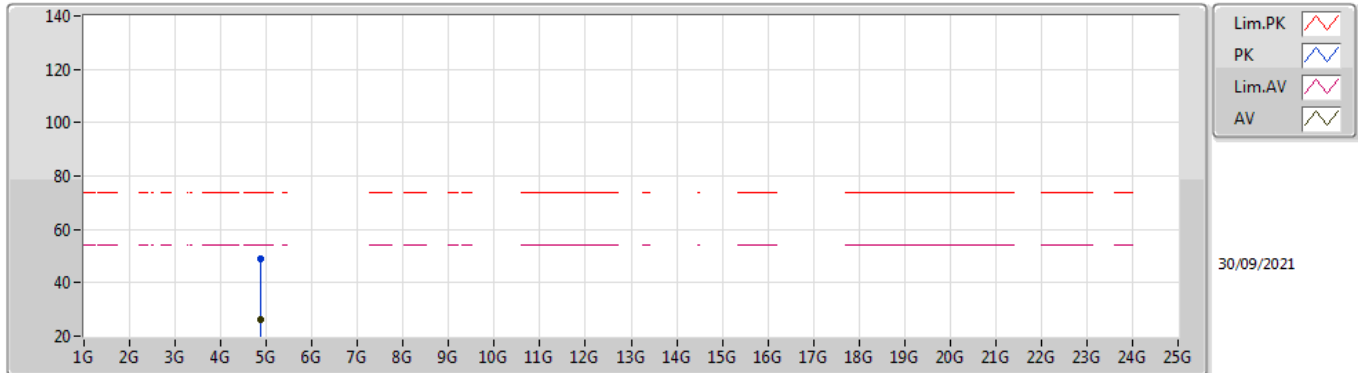
2440MHz_TX



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)
AV	4.88035G	31.21	54.00	-22.79	3.03	3	Vertical	44	1.15	-	28.18	31.10	6.72	34.79
PK	4.88035G	53.71	74.00	-20.29	3.03	3	Vertical	44	1.15	-	50.68	31.10	6.72	34.79

BT-BR(1Mbps)

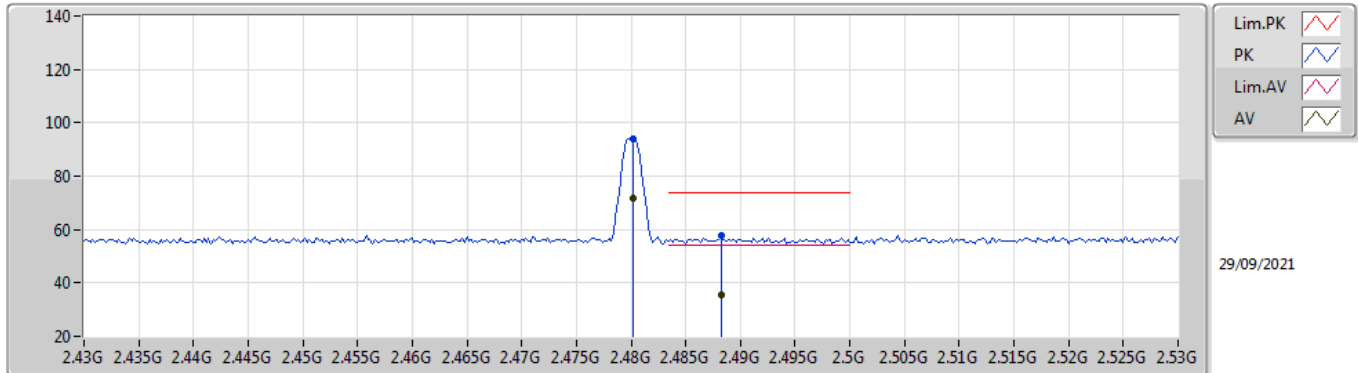
2440MHz_TX



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)
AV	4.87988G	26.28	54.00	-27.72	3.03	3	Horizontal	191	1.50	-	23.25	31.10	6.72	34.79
PK	4.87988G	48.78	74.00	-25.22	3.03	3	Horizontal	191	1.50	-	45.75	31.10	6.72	34.79

BT-BR(1Mbps)

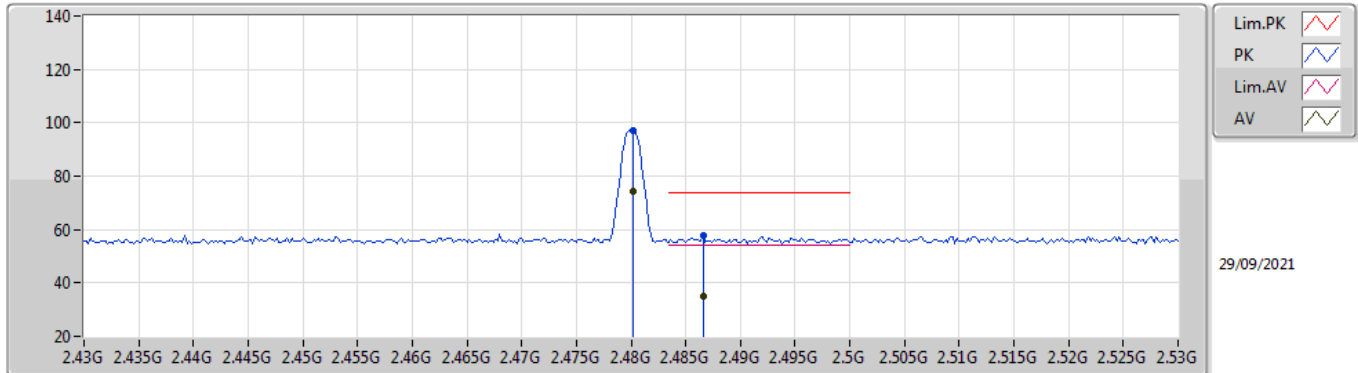
2480MHz_TX



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)
AV	2.4802G	71.64	Inf	-Inf	32.11	3	Vertical	300	1.01	-	39.53	27.50	4.61	-
AV	2.4882G	35.33	54.00	-18.67	32.12	3	Vertical	300	1.01	-	3.21	27.50	4.62	-
PK	2.4802G	94.14	Inf	-Inf	32.11	3	Vertical	300	1.01	-	62.03	27.50	4.61	-
PK	2.4882G	57.83	74.00	-16.17	32.12	3	Vertical	300	1.01	-	25.71	27.50	4.62	-

BT-BR(1Mbps)

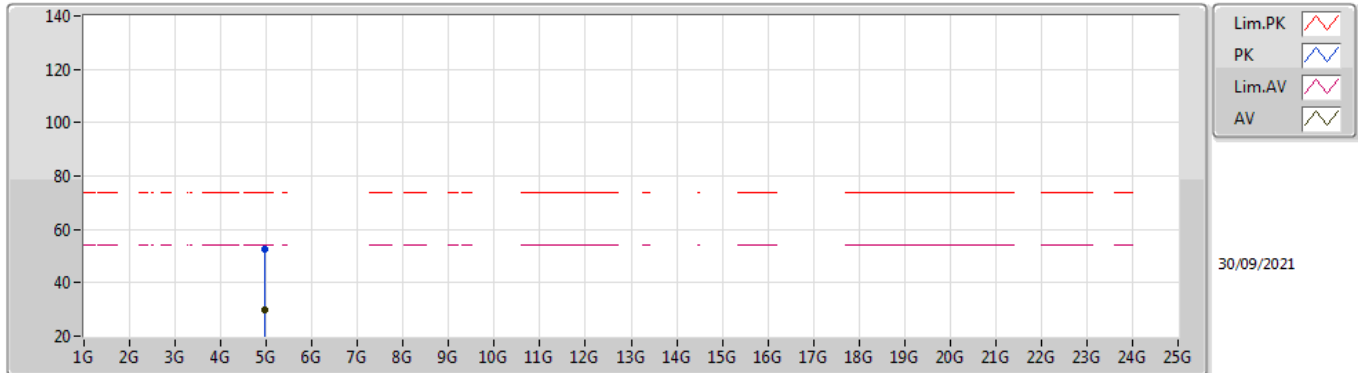
2480MHz_TX



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)
AV	2.4802G	74.36	Inf	-Inf	32.11	3	Horizontal	130	1.12	-	42.25	27.50	4.61	-
AV	2.4866G	35.17	54.00	-18.83	32.11	3	Horizontal	130	1.12	-	3.06	27.50	4.61	-
PK	2.4802G	96.86	Inf	-Inf	32.11	3	Horizontal	130	1.12	-	64.75	27.50	4.61	-
PK	2.4866G	57.67	74.00	-16.33	32.11	3	Horizontal	130	1.12	-	25.56	27.50	4.61	-

BT-BR(1Mbps)

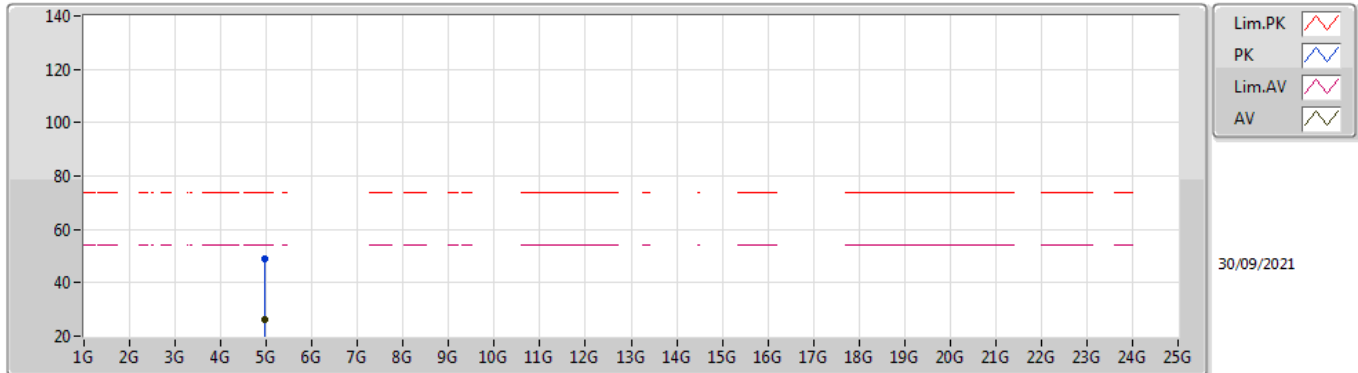
2480MHz_TX



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)
AV	4.96032G	30.04	54.00	-23.96	3.35	3	Vertical	47	1.10	-	26.69	31.34	6.78	34.77
PK	4.96032G	52.54	74.00	-21.46	3.35	3	Vertical	47	1.10	-	49.19	31.34	6.78	34.77

BT-BR(1Mbps)

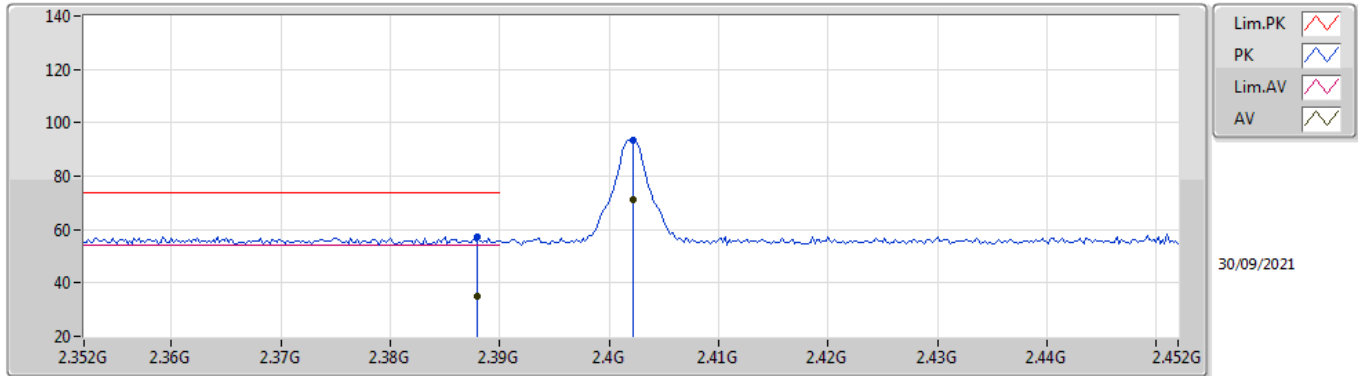
2480MHz_TX



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)
AV	4.9601G	26.43	54.00	-27.57	3.35	3	Horizontal	155	1.47	-	23.08	31.34	6.78	34.77
PK	4.9601G	48.93	74.00	-25.07	3.35	3	Horizontal	155	1.47	-	45.58	31.34	6.78	34.77

BT-EDR(3Mbps)

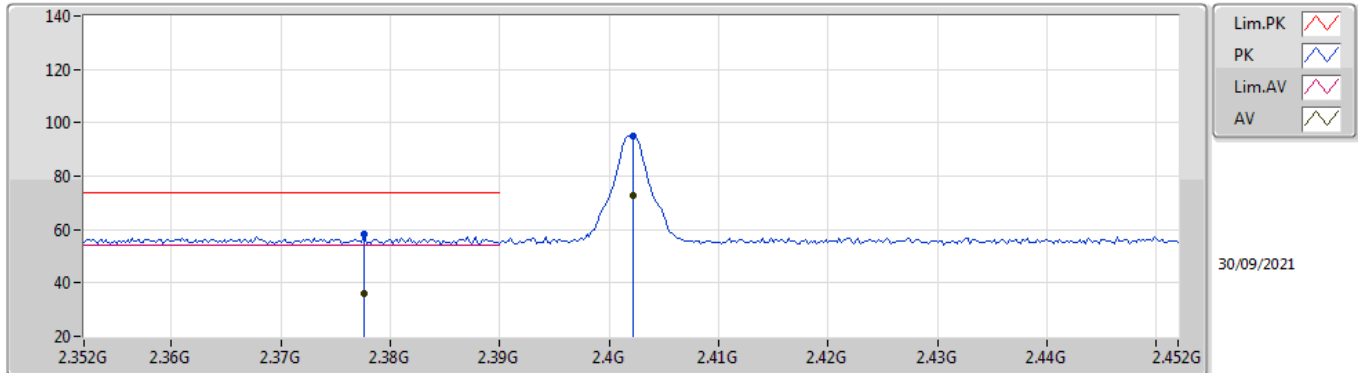
2402MHz_TX



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)
AV	2.388G	34.81	54.00	-19.19	32.22	3	Vertical	102	1.63	-	2.59	27.65	4.57	-
AV	2.4022G	71.11	Inf	-Inf	32.18	3	Vertical	102	1.63	-	38.93	27.60	4.58	-
PK	2.388G	57.31	74.00	-16.69	32.22	3	Vertical	102	1.63	-	25.09	27.65	4.57	-
PK	2.4022G	93.61	Inf	-Inf	32.18	3	Vertical	102	1.63	-	61.43	27.60	4.58	-

BT-EDR(3Mbps)

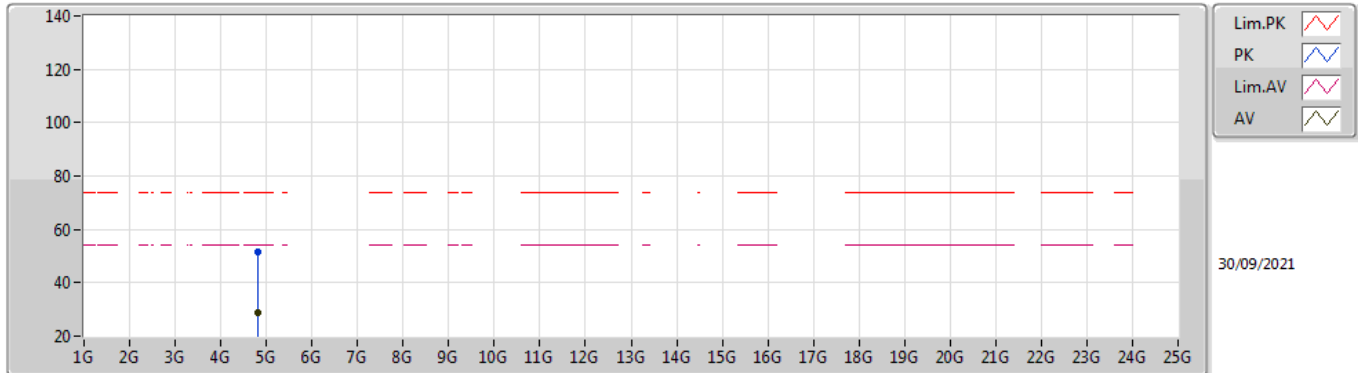
2402MHz_TX



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)
AV	2.3776G	35.97	54.00	-18.03	32.25	3	Horizontal	60	1.00	-	3.72	27.69	4.56	-
AV	2.4022G	72.71	Inf	-Inf	32.18	3	Horizontal	60	1.00	-	40.53	27.60	4.58	-
PK	2.3776G	58.47	74.00	-15.53	32.25	3	Horizontal	60	1.00	-	26.22	27.69	4.56	-
PK	2.4022G	95.21	Inf	-Inf	32.18	3	Horizontal	60	1.00	-	63.03	27.60	4.58	-

BT-EDR(3Mbps)

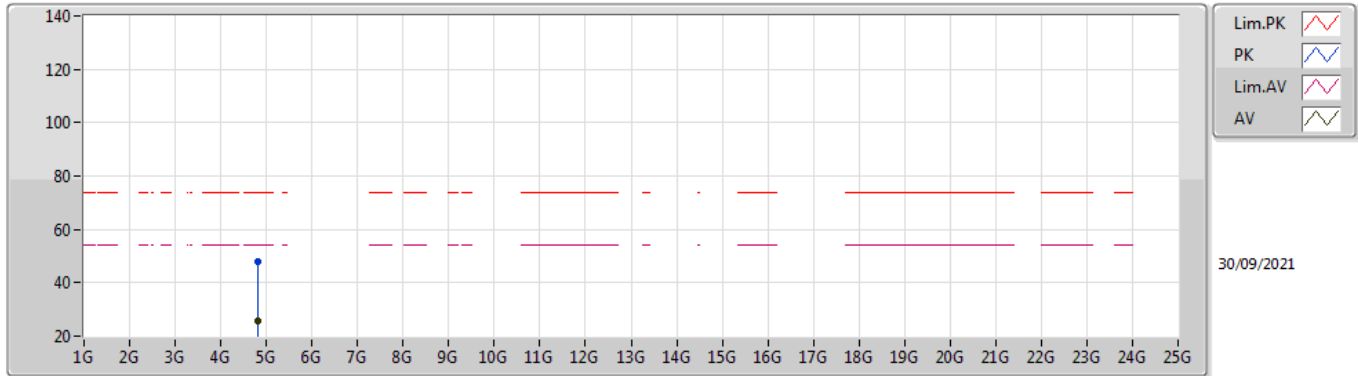
2402MHz_TX



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)
AV	4.8039G	28.90	54.00	-25.10	2.95	3	Vertical	41	1.34	-	25.95	31.10	6.66	34.81
PK	4.8039G	51.40	74.00	-22.60	2.95	3	Vertical	41	1.34	-	48.45	31.10	6.66	34.81

BT-EDR(3Mbps)

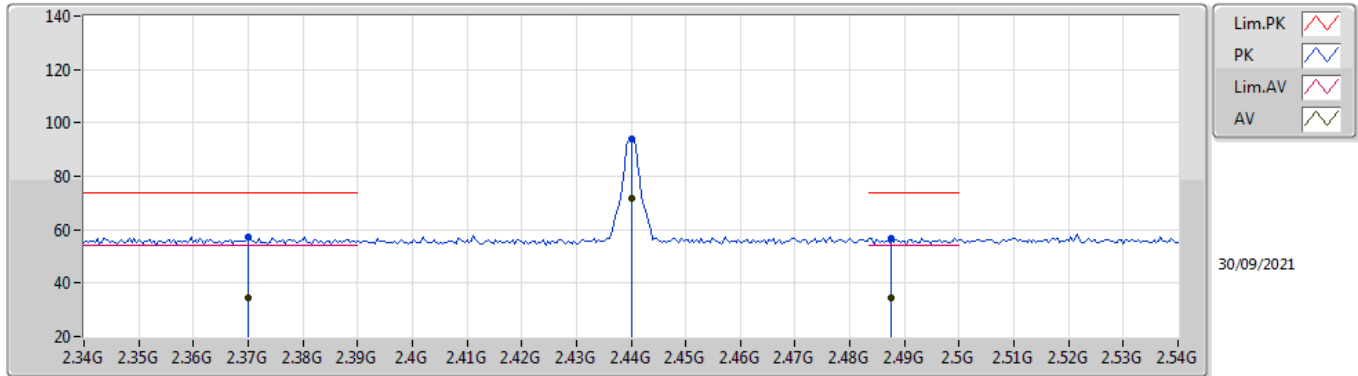
2402MHz_TX



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)
AV	4.80416G	25.54	54.00	-28.46	2.95	3	Horizontal	193	1.51	-	22.59	31.10	6.66	34.81
PK	4.80416G	48.04	74.00	-25.96	2.95	3	Horizontal	193	1.51	-	45.09	31.10	6.66	34.81

BT-EDR(3Mbps)

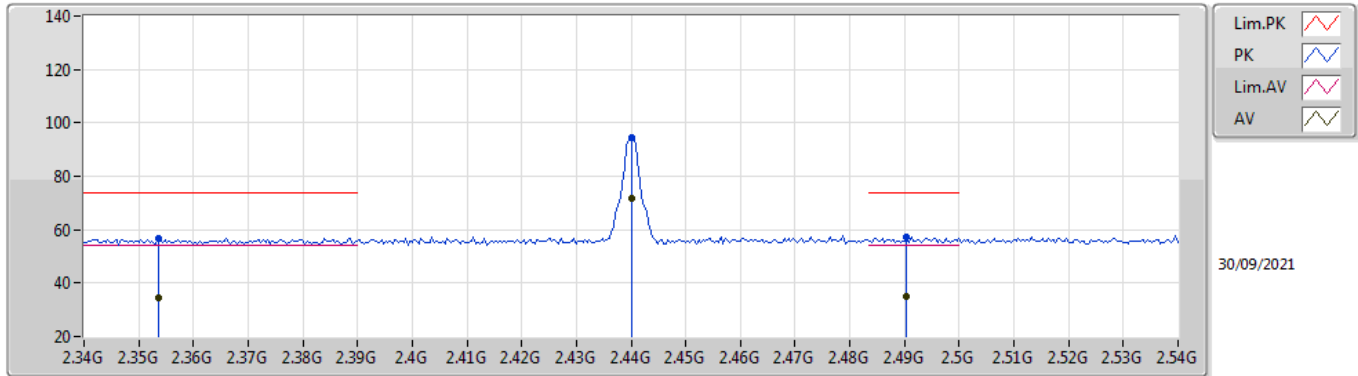
2440MHz_TX



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)
AV	2.37G	34.68	54.00	-19.32	32.27	3	Vertical	98	1.00	-	2.41	27.72	4.55	-
AV	2.44G	71.50	Inf	-Inf	32.12	3	Vertical	98	1.00	-	39.38	27.52	4.60	-
AV	2.4876G	34.47	54.00	-19.53	32.12	3	Vertical	98	1.00	-	2.35	27.50	4.62	-
PK	2.37G	57.18	74.00	-16.82	32.27	3	Vertical	98	1.00	-	24.91	27.72	4.55	-
PK	2.44G	94.00	Inf	-Inf	32.12	3	Vertical	98	1.00	-	61.88	27.52	4.60	-
PK	2.4876G	56.97	74.00	-17.03	32.12	3	Vertical	98	1.00	-	24.85	27.50	4.62	-

BT-EDR(3Mbps)

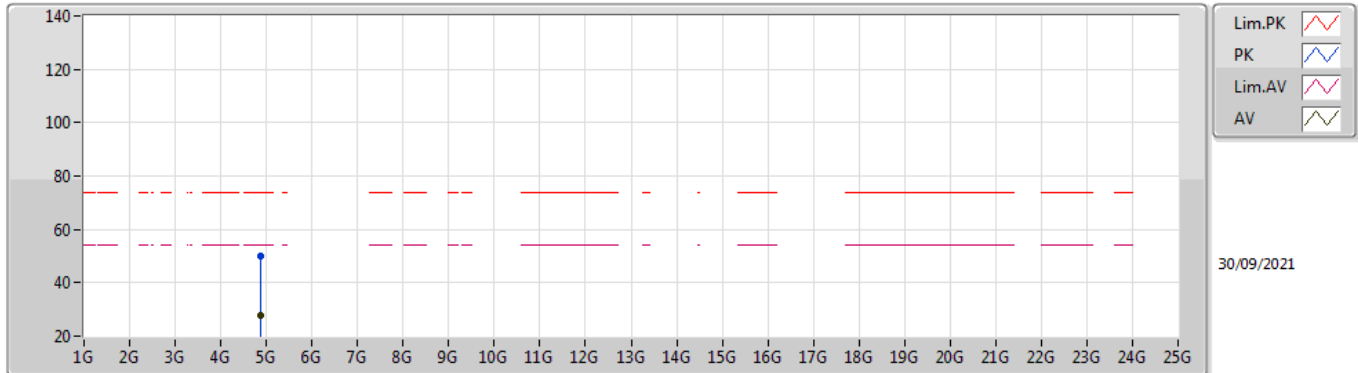
2440MHz_TX



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)
AV	2.3536G	34.40	54.00	-19.60	32.33	3	Horizontal	58	1.13	-	2.07	27.79	4.54	-
AV	2.44G	71.78	Inf	-Inf	32.12	3	Horizontal	58	1.13	-	39.66	27.52	4.60	-
AV	2.4904G	34.88	54.00	-19.12	32.12	3	Horizontal	58	1.13	-	2.76	27.50	4.62	-
PK	2.3536G	56.90	74.00	-17.10	32.33	3	Horizontal	58	1.13	-	24.57	27.79	4.54	-
PK	2.44G	94.28	Inf	-Inf	32.12	3	Horizontal	58	1.13	-	62.16	27.52	4.60	-
PK	2.4904G	57.38	74.00	-16.62	32.12	3	Horizontal	58	1.13	-	25.26	27.50	4.62	-

BT-EDR(3Mbps)

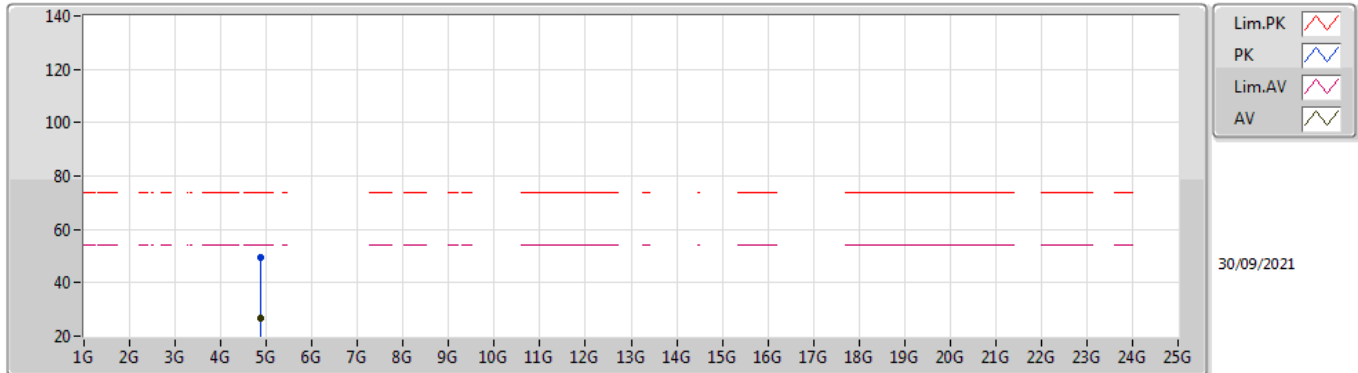
2440MHz_TX



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)
AV	4.88028G	27.70	54.00	-26.30	3.03	3	Vertical	16	1.05	-	24.67	31.10	6.72	34.79
PK	4.88028G	50.20	74.00	-23.80	3.03	3	Vertical	16	1.05	-	47.17	31.10	6.72	34.79

BT-EDR(3Mbps)

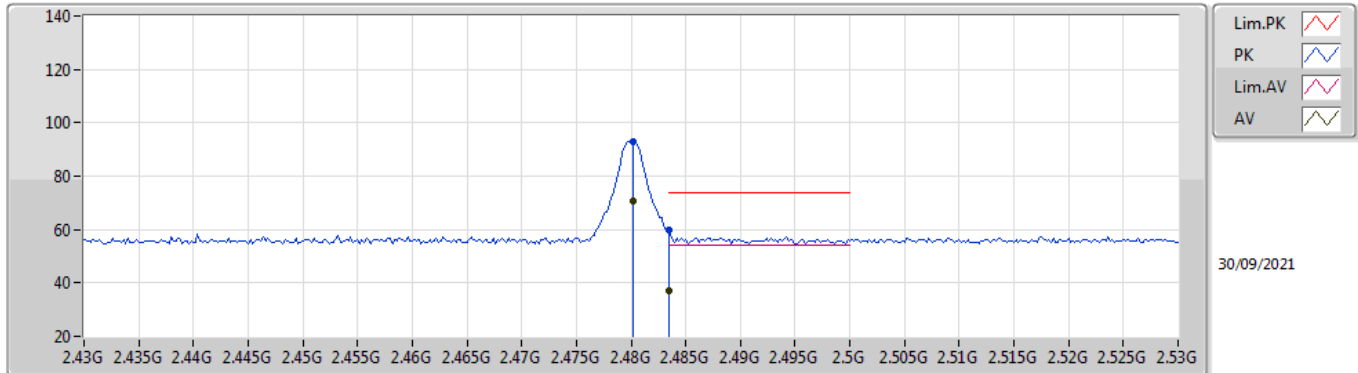
2440MHz_TX



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)
AV	4.8801G	26.73	54.00	-27.27	3.03	3	Horizontal	124	1.00	-	23.70	31.10	6.72	34.79
PK	4.8801G	49.23	74.00	-24.77	3.03	3	Horizontal	124	1.00	-	46.20	31.10	6.72	34.79

BT-EDR(3Mbps)

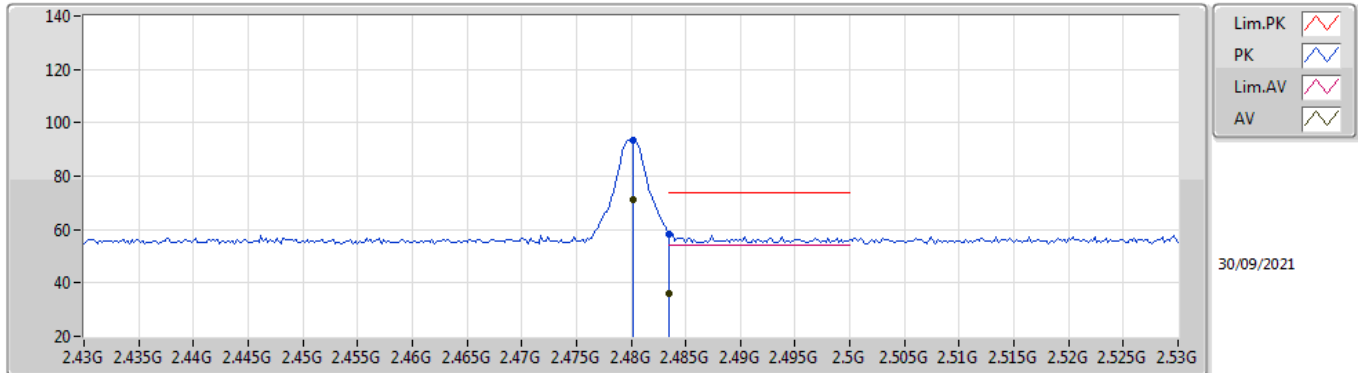
2480MHz_TX



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)
AV	2.4802G	70.48	Inf	-Inf	32.11	3	Vertical	100	1.00	-	38.37	27.50	4.61	-
AV	2.4835G	37.09	54.00	-16.91	32.11	3	Vertical	100	1.00	-	4.98	27.50	4.61	-
PK	2.4802G	92.98	Inf	-Inf	32.11	3	Vertical	100	1.00	-	60.87	27.50	4.61	-
PK	2.4835G	59.59	74.00	-14.41	32.11	3	Vertical	100	1.00	-	27.48	27.50	4.61	-

BT-EDR(3Mbps)

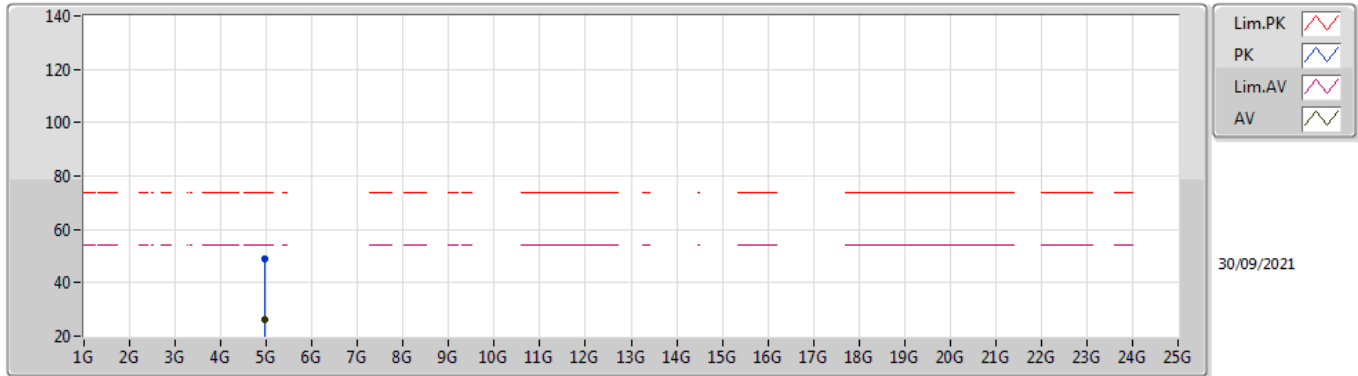
2480MHz_TX



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)
AV	2.4802G	71.06	Inf	-Inf	32.11	3	Horizontal	58	1.24	-	38.95	27.50	4.61	-
AV	2.4835G	35.99	54.00	-18.01	32.11	3	Horizontal	58	1.24	-	3.88	27.50	4.61	-
PK	2.4802G	93.56	Inf	-Inf	32.11	3	Horizontal	58	1.24	-	61.45	27.50	4.61	-
PK	2.4835G	58.49	74.00	-15.51	32.11	3	Horizontal	58	1.24	-	26.38	27.50	4.61	-

BT-EDR(3Mbps)

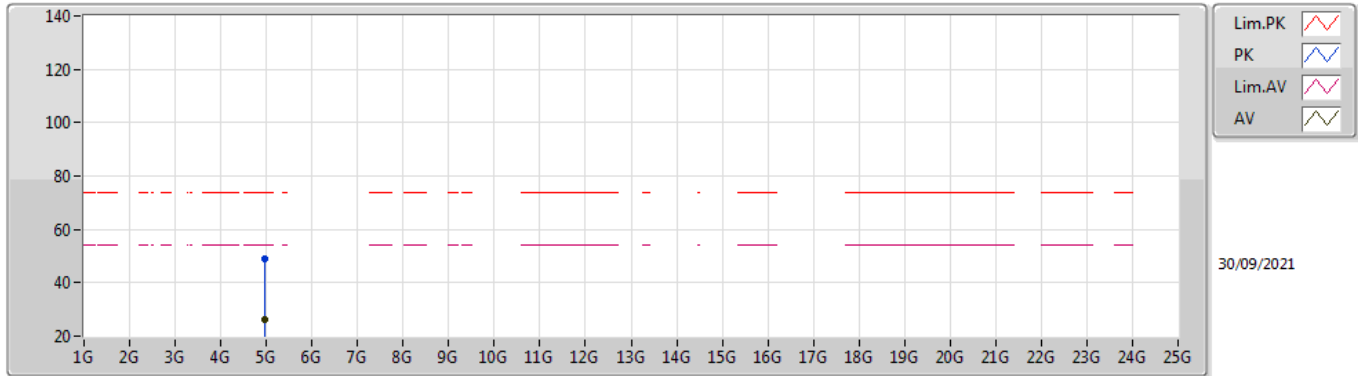
2480MHz_TX



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)
AV	4.95997G	26.46	54.00	-27.54	3.35	3	Vertical	32	2.90	-	23.11	31.34	6.78	34.77
PK	4.95997G	48.96	74.00	-25.04	3.35	3	Vertical	32	2.90	-	45.61	31.34	6.78	34.77

BT-EDR(3Mbps)

2480MHz_TX



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)
AV	4.95966G	26.24	54.00	-27.76	3.35	3	Horizontal	155	1.39	-	22.89	31.34	6.78	34.77
PK	4.95966G	48.74	74.00	-25.26	3.35	3	Horizontal	155	1.39	-	45.39	31.34	6.78	34.77