

NCC Test Report

Equipment : 藍牙耳機
Brand Name : Silicon Power
Model Name : BP80
Applicant : 廣穎電通股份有限公司
台北市 114 內湖區洲子街 106 號 7 樓
Manufacturer : 東莞市和樂電子有限公司
中國廣東省東莞市道滘鎮大嶺丫工業區
Standard : LP0002 Section 4.10 (2020-07-01)

The product was received on Dec. 14, 2020, and testing was started from Feb. 04, 2021 and completed on Feb. 09, 2021. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.



Approved by: Allen Lin

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)

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History of this test report

[illegible]

Summary of Test Result

Report Clause	Ref. Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	4.10.1.4	Antenna Requirement	PASS	-
3.1	3.3	AC Power-line Conducted Emissions	PASS	-
3.2	4.10.1.6	20dB Bandwidth	PASS	-
3.2	4.10.1.6	Carrier Frequency Separation	PASS	-
3.3	4.10.1.2	Maximum Conducted Output Power	PASS	-
3.4	4.10.1.6	Number of Hopping Frequencies and Hopping Bandedge	PASS	-
3.5	4.10.1.6	Time of Occupancy (Dwell Time)	PASS	-
3.6	4.10.1.5	Emissions in Non-restricted Frequency Bands	PASS	-
3.7	4.10.1.5	Emissions in Restricted Frequency Bands	PASS	-
3.8	3.9	Receiver Radiated Unwanted Emissions	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: Michelle Tsai

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	Unictron	CW505	陶瓷天線	N/A	2.2

For BT function:

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

Ant. 1 (port 1) could transmit/receive.

1.1.3 EUT Information

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

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
BT-BR(1Mbps)	0.937	0.28	2.898m	1k
BT-EDR(2Mbps)	0.953	0.21	2.913m	1k
BT-EDR(3Mbps)	0.953	0.21	2.912m	1k

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

1.2 Testing Applied Standards

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

- ♦ LP0002 (2020-07-01)
- ♦ ANSI C63.10-2013
- ♦ ANSI C63.4-2014

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

Testing Location				
☒	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	
☐	JHUBEI	ADD : No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County, Taiwan (R.O.C.)		
		TEL : 886-3-656-9065	FAX : 886-3-656-9085	
☒	Wen Shan	ADD : No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)		
		TEL : 886-3-318-0787	FAX : 886-3-318-0287	

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO01-HY	Daniel Lin	21.3~22.8°C/51~57%	09/Feb/2021
RF Conducted	TH01-HY	Vivi Jiang	20.1~26.9°C/50~60%	08/Feb/2021
Radiated	03CH09-HY	Frank Hsieh	20.7~21.0°C/58~66%	04/Feb/2021~08/Feb/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 Condition

RF Conducted	Abbreviation	Remark
TnomVnom	Tnom	20°C
-	Vnom	110V

2.2 Test Channel Mode

Test Software Version	AWRDLAB 1.0.9.2
-----------------------	-----------------

Mode	Power Setting
BT-BR(1Mbps)	-
2402MHz	0x01
2440MHz	0x01
2480MHz	0x02
BT-EDR(2Mbps)	-
2402MHz	0x00
2440MHz	0x00
2480MHz	0x00
BT-EDR(3Mbps)	-
2402MHz	0x01
2440MHz	0x03
2480MHz	0x03

2.3 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	
1	USB Mode ; TX
2	USB Mode ; RX
3	USB Mode ; USB Charging
4	Adapter Mode ; Adapter Charging

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 ☒ Non-adaptive frequency hopping systems (Non-AFH) ☒ adaptive frequency hopping systems (AFH)
Non-AFH Mode configuration was found to be the worst case and measured during the test.	

The Worst Case Mode for Following Conformance Tests			
Tests Item	Emissions in Restricted Frequency Bands Receiver Radiated Spurious Emissions		
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			
1	USB Mode ; TX/RX		
2	USB Mode ; USB Charging		
3	Adapter Mode ; Adapter Charging		
Operating Mode > 1GHz			
1	USB Mode ; TX/RX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT		V	

2.4 Accessories

Accessories				
Charging Box	Brand Name	SP	Model Name	BP80
	Power Rating	input: 5Vdc, 400mA ,Capacity:300mAh,Earbud input:5Vdc,500mA		
Charging Box Battery	Brand Name	小鋰	Model Name	602528
Earphone Battery	Brand Name	弘捷	Model Name	541112A
USB-Type C Cable	Brand Name	XiangYiXin Co , Ltd	Model Name	BP80 Cable
	Signal Line	0.3 meter, shielded cable, w/o ferrite core		

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

2.5 Support Equipment

Support Equipment – AC Conduction and Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	HP	ProBook	-	-
2	AC Adapter for NB	HP	PPP012L-E	-	-
3	AC Power Cable for NB	Power Sync	TPCMRN0018	-	-
4	Mouse	lenovo	MOGOUO	-	-
5	iPod	APPLE	A1199	-	-
6	30-pin to USB Original Cable	APPLE	MA591G/C	-	-
7	Adapter for EUT	Apple	A1385	-	-
8	USB Cable	Data Target	USB_QCC_001	-	Note 1
9	Test Fixture	Feasycom	DB006-BT630-USB	-	Note 1

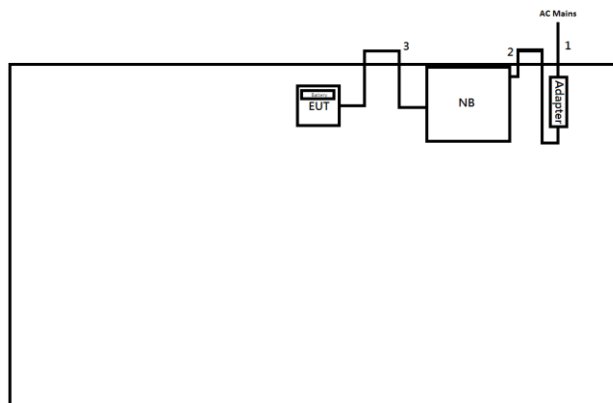
Note 1: Support equipment was provided by customer.

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-
3	Test Fixture	Feasycom	DB006-BT630-USB	-	Note 1

Note 1: Support equipment was provided by customer.

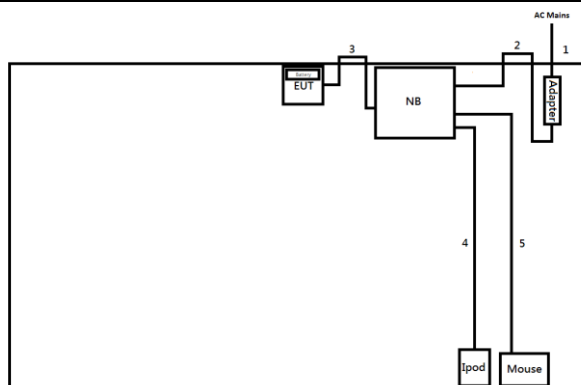
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test – Mode 1 (TX)

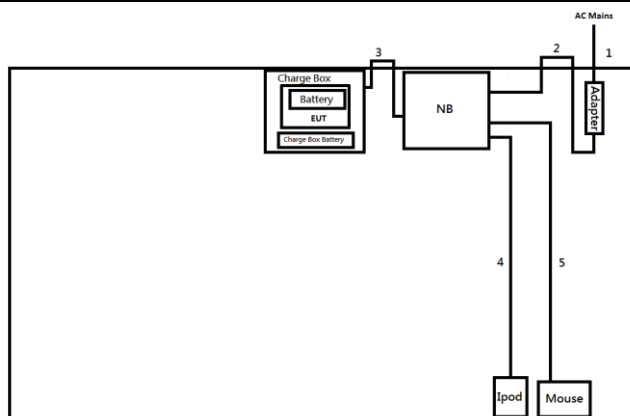


Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	DC Power Cable	No	1.5	-
3	USB Cable	Yes	1.8	-

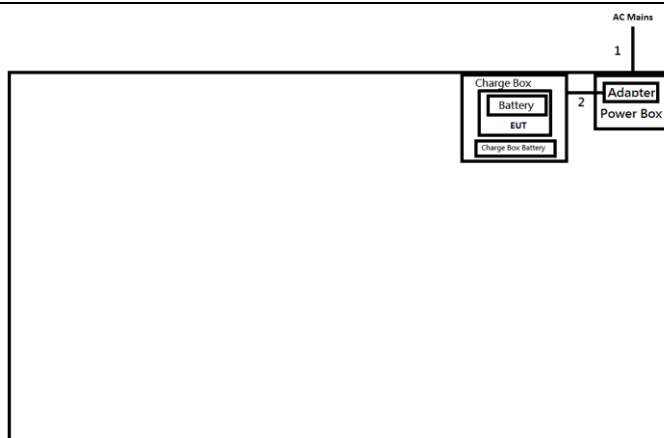
Test Setup Diagram – AC Line Conducted Emission Test – Mode 2 (RX)



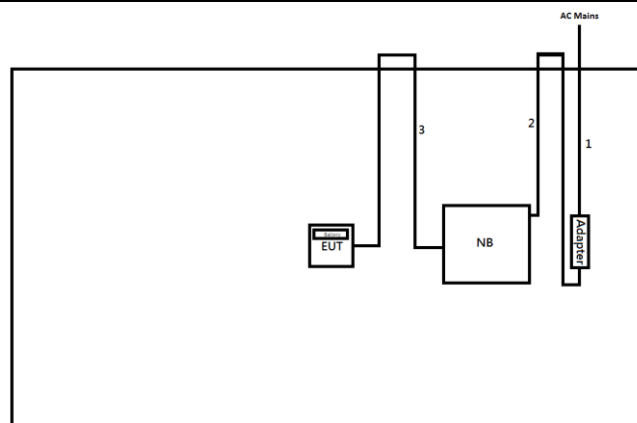
Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	DC Power Cable	No	1.5	-
3	USB Cable	Yes	1.8	-
4	30-pin to USB Original Cable	No	1.0	-
5	USB Cable	No	1.25	-

Test Setup Diagram – AC Line Conducted Emission Test – Mode 3


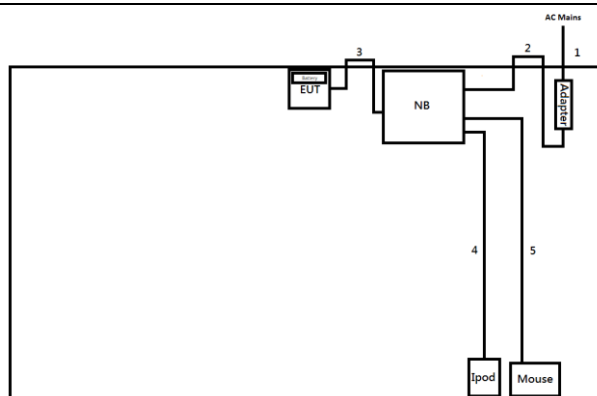
Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	DC Power cable	No	1.5	-
3	USB cable	Yes	0.3	-
4	30-pin to USB Original Cable	No	1.0	-
5	USB Cable	No	1.25	-

Test Setup Diagram – AC Line Conducted Emission Test – Mode 4


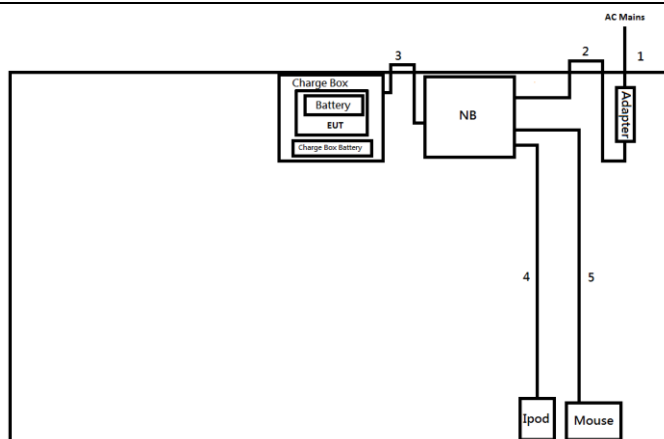
Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	USB Cable	Yes	0.3	-

Test Setup Diagram - Radiated Test – Mode 1 (TX)


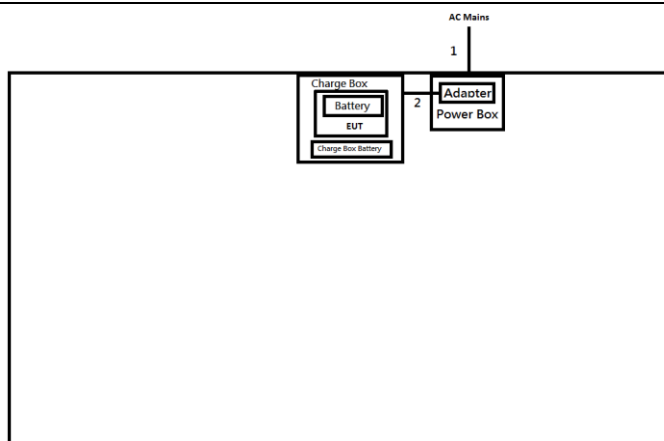
Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	DC Power Cable	No	1.5	-
3	USB Cable	Yes	1.8	-

Test Setup Diagram - Radiated Test – Mode 1 (RX)


Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	DC Power Cable	No	1.5	-
3	USB Cable	Yes	1.8	-
4	30-pin to USB Original Cable	No	1.0	-
5	USB Cable	No	1.25	-

Test Setup Diagram - Radiated Test – Mode 2


Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	DC Power Cable	No	1.5	-
3	USB Cable	Yes	0.3	-
4	30-pin to USB Original Cable	No	1.0	-
5	USB Cable	No	1.25	-

Test Setup Diagram - Radiated Test – Mode 3


Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	USB Cable	Yes	0.3	-

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

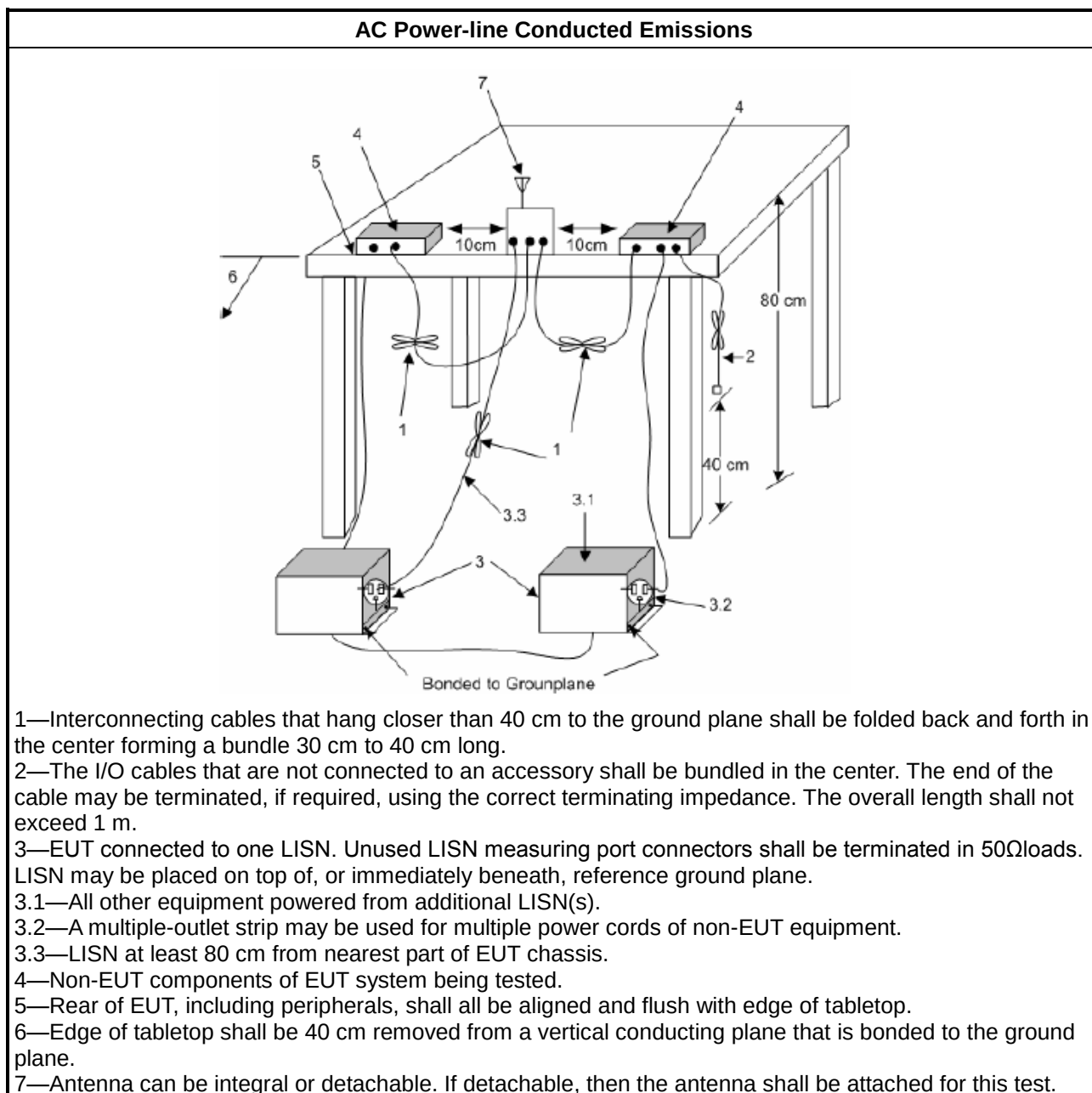
Test Method
▪ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

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	
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).
N: Number of Hopping Frequencies; ChS: Hopping Channel Separation	

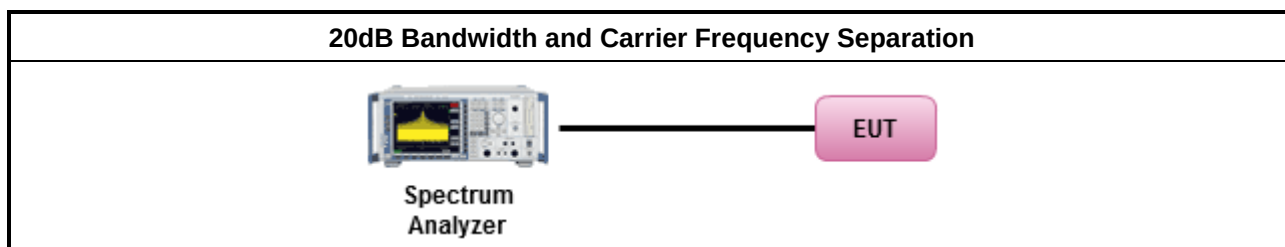
3.2.2 Measuring Instruments

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 6.9.2 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	
2400-2483.5 MHz Band:	
	$N \geq 75$; Power 30dBm; EIRP 36dBm
	$75 > N \geq 15$; Power 21dBm; EIRP 27dBm
N: Number of Hopping Frequencies	

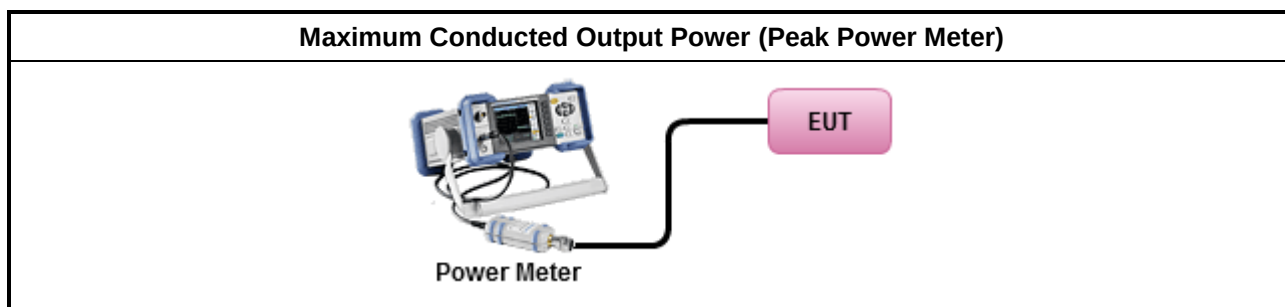
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method
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	
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).
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

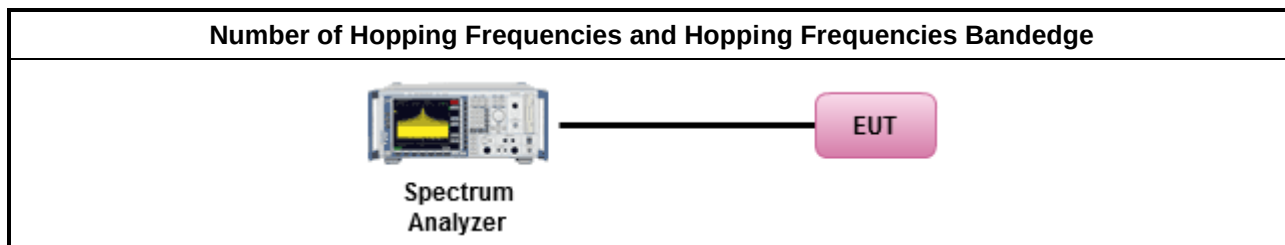
3.4.3 Measuring Instruments

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

Time of Occupancy (Dwell Time) Limit for Frequency Hopping Systems	
2400-2483.5 MHz Band:	
	$N \geq 75$; 0.4s in $N \times 0.4$ period
	$75 > N \geq 15$; 0.4s in $N \times 0.4$ period
N: Number of Hopping Frequencies	

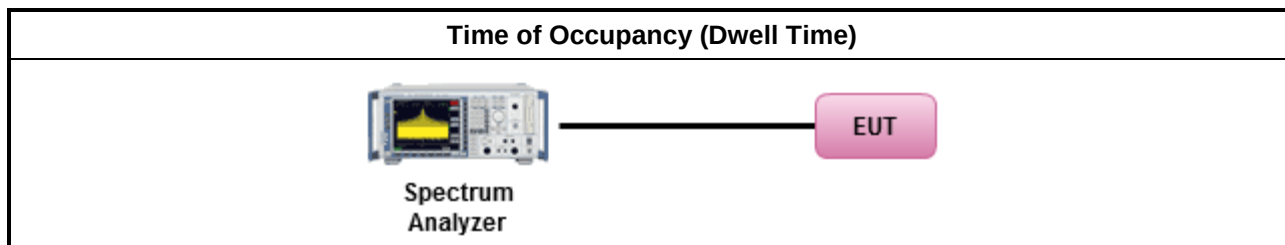
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

3.5.4 Test Setup



3.5.5 Test Result of Time of Occupancy (Dwell Time)

Refer as Appendix E

3.6 Emissions in Non-restricted Frequency Bands

3.6.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	Limit (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.	

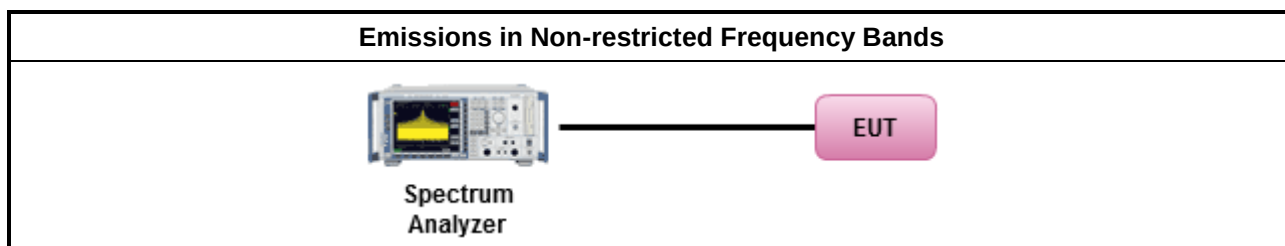
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

Test Method
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

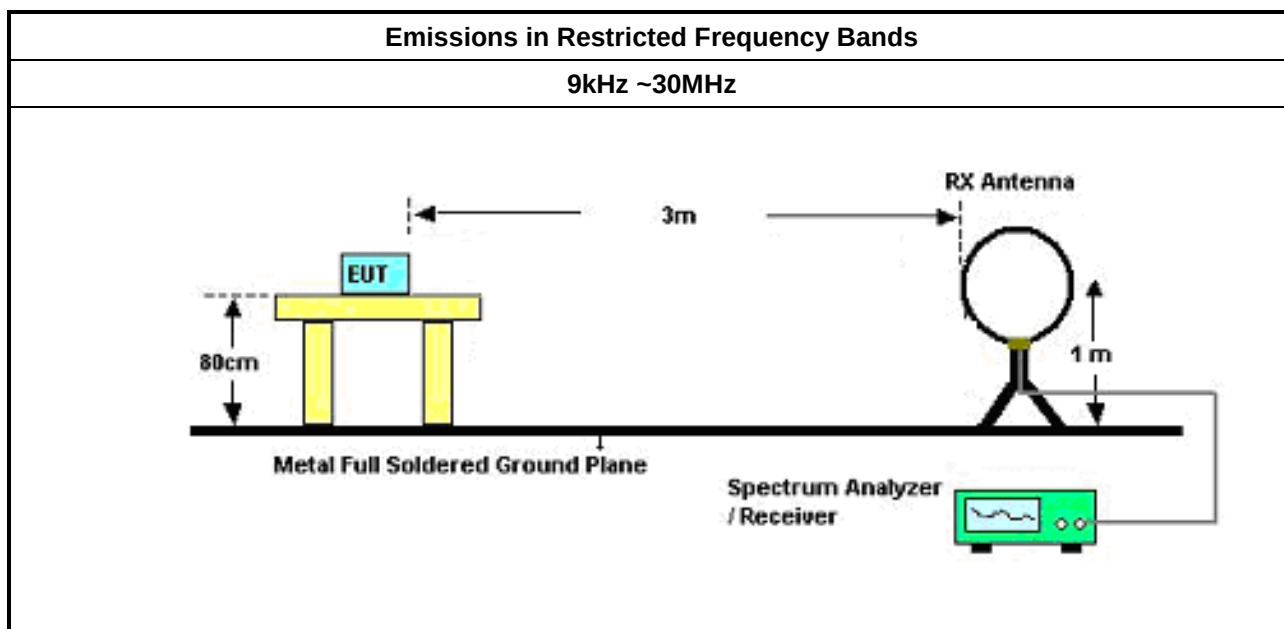
Test Method	
The average emission levels shall be measured in [hopping duty factor].	
Refer as ANSI C63.10; clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
For the transmitter unwanted emissions shall be measured using following options below:	
	Refer as ANSI C63.10, clause 4.1.4.2.1 QP value.
	Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak.
	Refer as ANSI C63.10, clause 4.1.4.2.4 average value of hopping pulsed emissions.
KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.	
	Based on LP0002 6.5.2: 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.
	Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

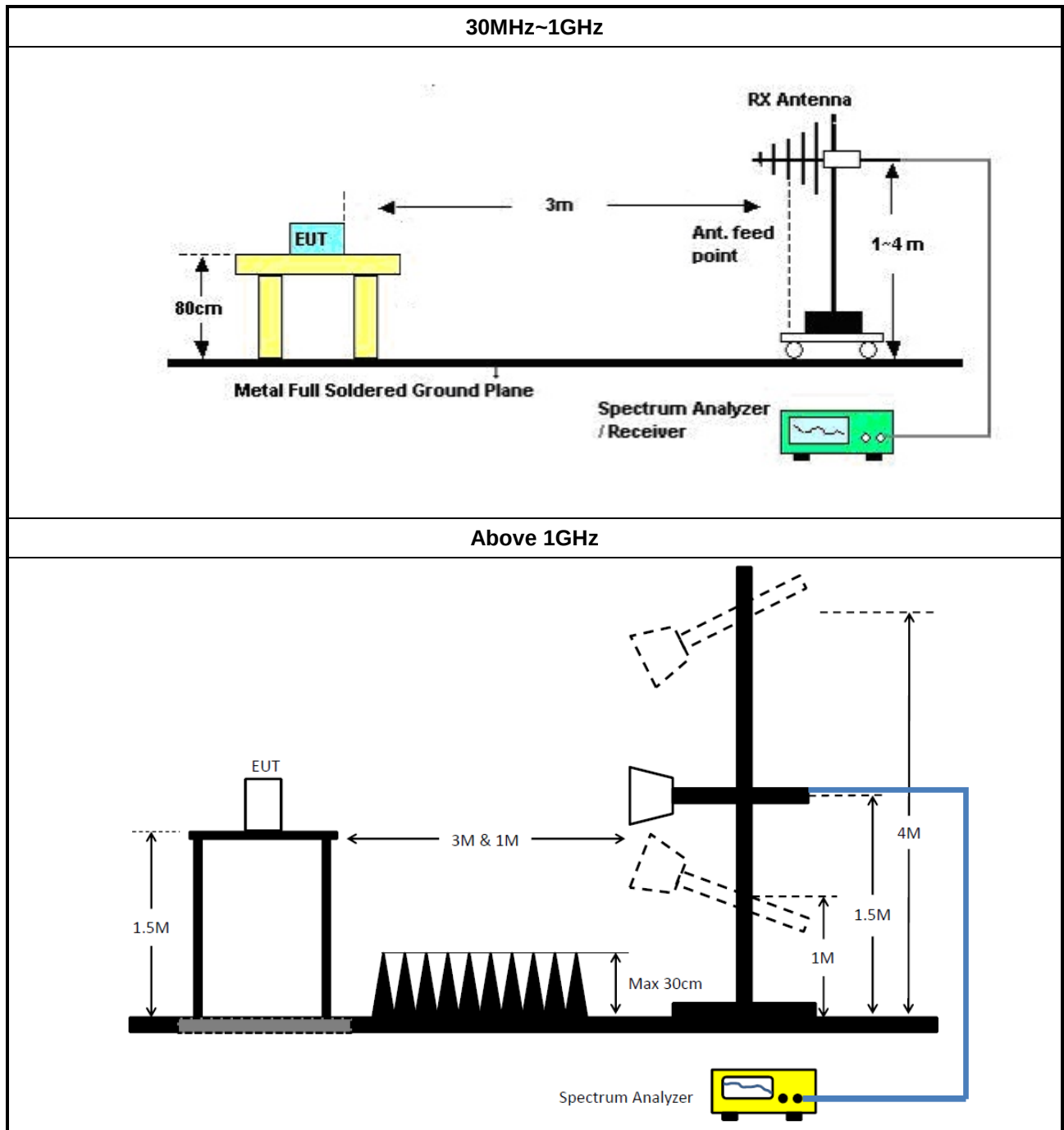
3.7.4 Measurement Results Calculation

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

3.8 Receiver Radiated Spurious Emissions

3.8.1 Receiver in Radiated Spurious Emissions Limit

Restricted Spurious 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.

3.8.2 Measuring Instruments

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

3.8.3 Test Procedures

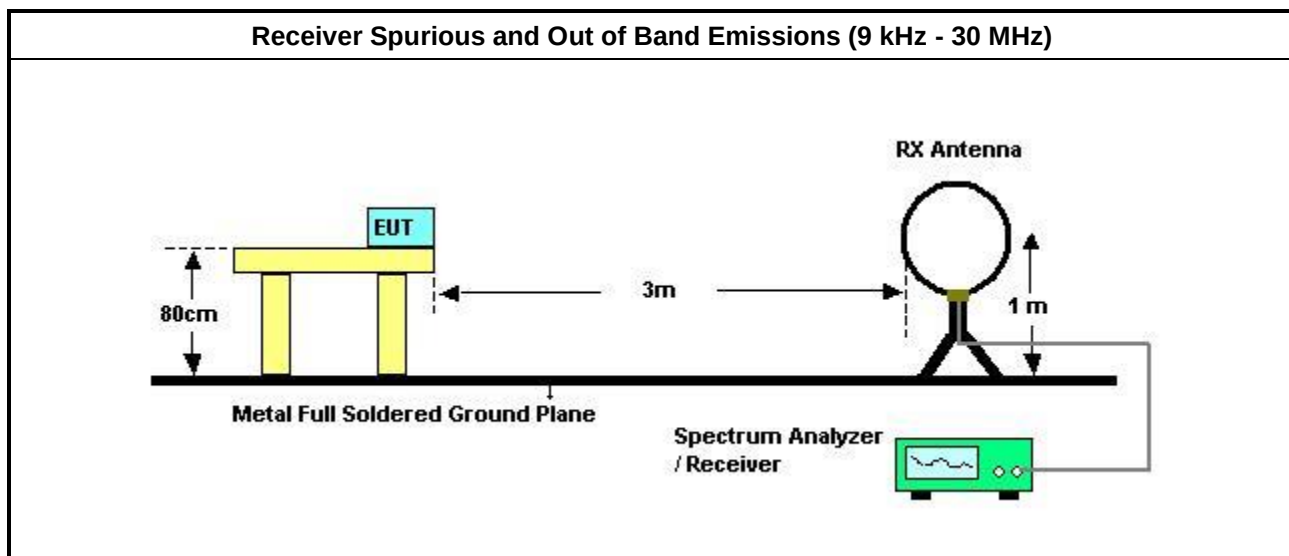
Test Method	
☒	The search for spurious emissions shall be from the lowest frequency internally generated or used in the receiver (e.g. local oscillator, intermediate or carrier frequency), or 30 MHz, whichever is higher, to at least 3 times the highest tuneable or local oscillator frequency, whichever is higher, without exceeding 40 GHz.
☒	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).
☒	For radiated measurement, refer as ANSI C63.4, clause 8.3.
☒	Refer as ANSI C63.4, clause 8.3.1.1 and 8.3.2.1 for radiated emissions from below 30 MHz.
☒	Refer as ANSI C63.4, clause 8.3.1.1 and 8.3.2.1 for radiated emissions from 30 MHz-1 GHz. For the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the QP-Limit so that the QP level does not need to be reported in addition.
☒	Refer as ANSI C63.4, clause 8.3.1.2 and 8.3.2.2 for radiated emissions from above 1 GHz. For the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
☒	All amplitude of spurious emissions that are attenuated by more than 30 dB below the permissible value has no need to be reported.

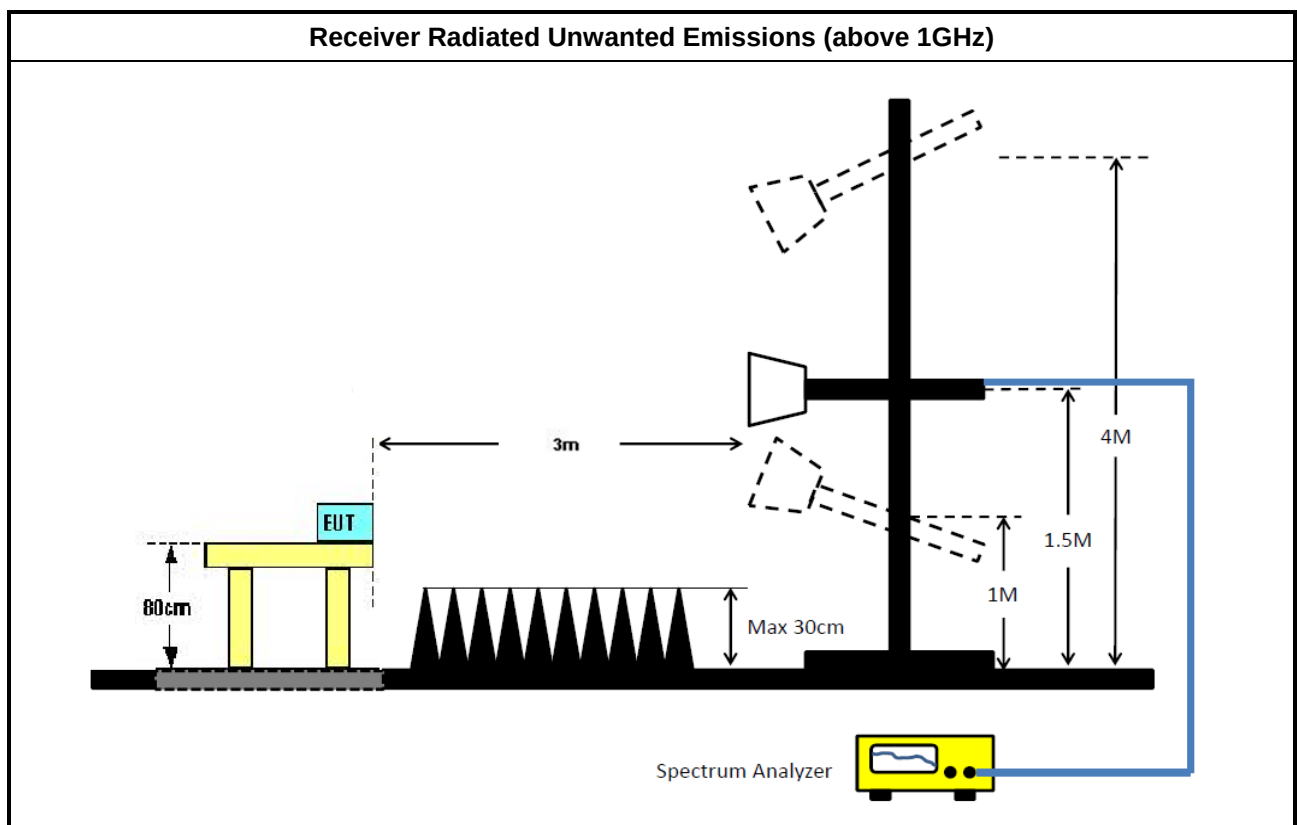
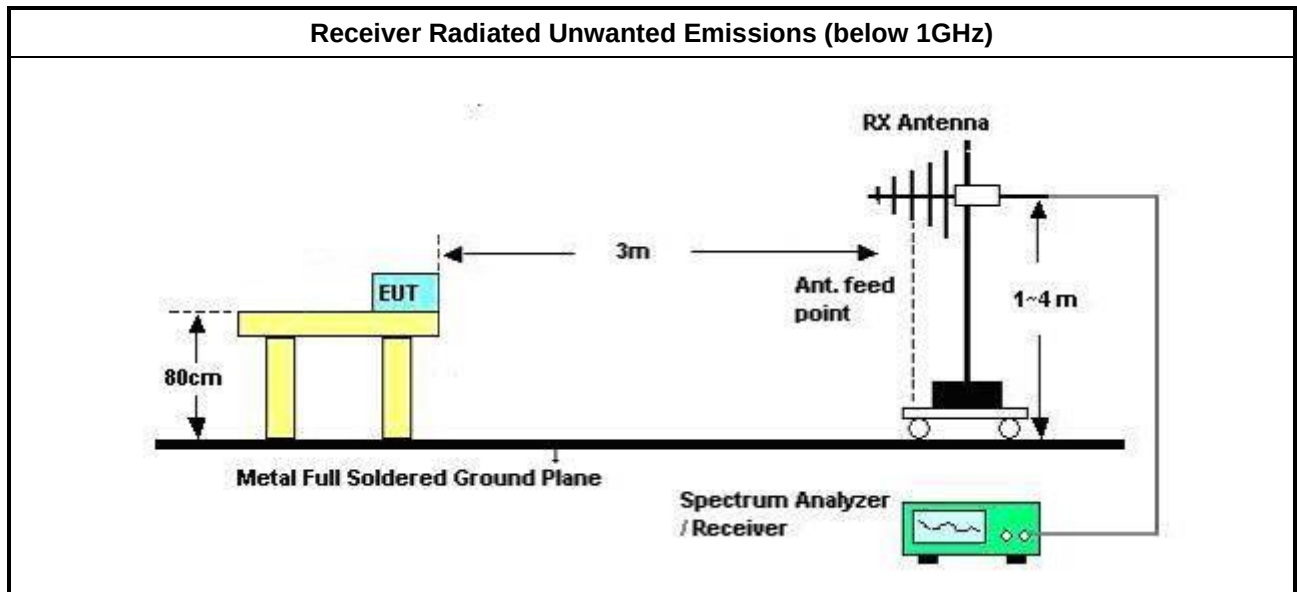
3.8.4 Measurement Results Calculation

The measured Level is calculated using:

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

3.8.5 Test Setup





3.8.6 Receiver Radiated Unwanted Emissions (Below 30MHz)

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

3.8.7 Test Result of Receiver Radiated Unwanted Emissions

Refer as Appendix H

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	ESR3	102052	9kHz ~ 3.6GHz	09/Apr/2020	08/Apr/2021
Two-Line V Network (LISN)	R&S	ENV 216	101274	9kHz ~ 30MHz	10/Jun/2020	09/Jun/2021
Cable	MTJ	RG 142	CO01-cable-01	100kHz ~ 1GHz	13/Jul/2020	12/Jul/2021
Pulse Limiter	SCHWARZBECK	VTSD 9561F	9495	9kHz ~ 30MHz	21/Sep/2020	20/Sep/2021

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	27/Mar/2020	26/Mar/2021
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	1GHz~18GHz 3m	19/Mar/2020	18/Mar/2021
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200885	10Hz~44GHz	11/Aug/2020	10/Aug/2021
Amplifier	EMC	EMC9135	980232	9kHz~1GHz	14/Apr/2020	13/Apr/2021
Microwave Preamplifier	Agilent	8449B	3008A02096	1GHz~26.5GHz	24/Jul/2020	23/Jul/2021
Bilog Antenna & 5dB Attenuator	TESEQ & MTJ	CBL6111D&MT J6102-05	35418 & 3	30MHz~1GHz	06/Sep/2020	05/Sep/2021
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA9120 D 1534	1GHz~18GHz	28/May/2020	27/May/2021
RF Cable-low	Jye Bao	RG142	CB031+324530/4	9kHz~30MHz	03/Sep/2020	02/Sep/2021
RF Cable-low	Jye Bao	RG142	CB031+324530/4	30MHz~1GHz	12/Feb/2020	11/Feb/2021
RF CABLE 5m+3m+1m	HUBER+SUHNER	SUCOFLEX104	SN MY25918/4+ SN MY39478/4 + SN 324530/4	1GHz~40GHz	15/Aug/2020	14/Aug/2021
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	18GHz~40GHz	13/Mar/2020	12/Mar/2021
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	16/Mar/2020	15/Mar/2021
EMI Test Receiver	R&S	ESR3	102051	9kHz~3.6GHz	29/May/2020	28/May/2021

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	19/Mar/2020	18/Mar/2021
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	20/Oct/2020	19/Oct/2021
Pulse Sensor	Anritsu	MA2411B	917017	300MHz~40GHz	17/Feb/2020	16/Feb/2021
Power Meter	Anritsu	ML2495A	949003	300MHz~40GHz	17/Feb/2020	16/Feb/2021

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	152.414k	58.46	65.87	-7.41	Neutral
Mode 2	Pass	QP	151.807k	58.00	65.90	-7.90	Neutral
Mode 3	Pass	QP	152.414k	56.59	65.87	-9.28	Neutral
Mode 4	Pass	AV	798.945k	25.68	46.00	-20.32	Line

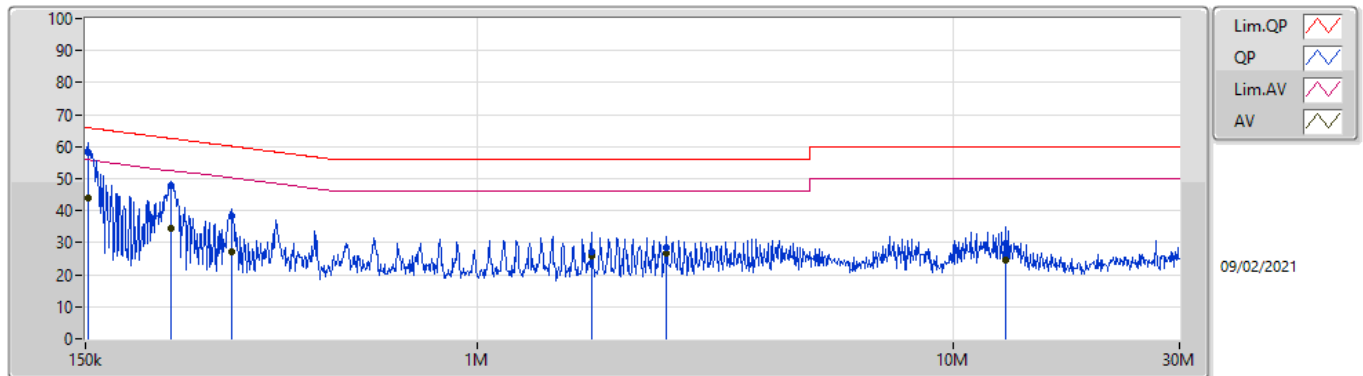
Mode Configure

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	152.414k	58.40	65.87	-7.47	Line	-
Mode 1	Pass	AV	152.414k	44.11	55.87	-11.76	Line	-
Mode 1	Pass	QP	227.194k	48.00	62.56	-14.56	Line	-
Mode 1	Pass	AV	227.194k	34.46	52.56	-18.10	Line	-
Mode 1	Pass	QP	304.059k	38.36	60.13	-21.77	Line	-
Mode 1	Pass	AV	304.059k	26.95	50.13	-23.18	Line	-
Mode 1	Pass	QP	1.74M	27.10	56.00	-28.90	Line	-
Mode 1	Pass	AV	1.74M	25.73	46.00	-20.27	Line	-
Mode 1	Pass	QP	2.502M	28.49	56.00	-27.51	Line	-
Mode 1	Pass	AV	2.502M	26.91	46.00	-19.09	Line	-
Mode 1	Pass	QP	12.961M	29.84	60.00	-30.16	Line	-
Mode 1	Pass	AV	12.961M	24.46	50.00	-25.54	Line	-
Mode 1	Pass	QP	152.414k	58.46	65.87	-7.41	Neutral	-
Mode 1	Pass	AV	152.414k	44.17	55.87	-11.70	Neutral	-
Mode 1	Pass	QP	228.103k	47.76	62.52	-14.76	Neutral	-
Mode 1	Pass	AV	228.103k	34.20	52.52	-18.32	Neutral	-
Mode 1	Pass	QP	302.848k	38.19	60.17	-21.98	Neutral	-
Mode 1	Pass	AV	302.848k	26.73	50.17	-23.44	Neutral	-
Mode 1	Pass	QP	455.055k	30.57	56.78	-26.21	Neutral	-
Mode 1	Pass	AV	455.055k	22.25	46.78	-24.53	Neutral	-
Mode 1	Pass	QP	1.818M	29.15	56.00	-26.85	Neutral	-
Mode 1	Pass	AV	1.818M	27.98	46.00	-18.02	Neutral	-
Mode 1	Pass	QP	10.616M	30.21	60.00	-29.79	Neutral	-
Mode 1	Pass	AV	10.616M	26.35	50.00	-23.65	Neutral	-
Mode 2	Pass	QP	151.202k	57.94	65.92	-7.98	Line	-
Mode 2	Pass	AV	151.202k	43.57	55.92	-12.35	Line	-
Mode 2	Pass	QP	228.103k	47.43	62.52	-15.09	Line	-
Mode 2	Pass	AV	228.103k	34.00	52.52	-18.52	Line	-
Mode 2	Pass	QP	305.276k	37.94	60.09	-22.15	Line	-
Mode 2	Pass	AV	305.276k	26.93	50.09	-23.16	Line	-
Mode 2	Pass	QP	529.596k	30.62	56.00	-25.38	Line	-
Mode 2	Pass	AV	529.596k	26.23	46.00	-19.77	Line	-
Mode 2	Pass	QP	1.747M	31.71	56.00	-24.29	Line	-
Mode 2	Pass	AV	1.747M	30.46	46.00	-15.54	Line	-
Mode 2	Pass	QP	13.065M	32.99	60.00	-27.01	Line	-
Mode 2	Pass	AV	13.065M	28.28	50.00	-21.72	Line	-
Mode 2	Pass	QP	151.807k	58.00	65.90	-7.90	Neutral	-
Mode 2	Pass	AV	151.807k	43.65	55.90	-12.25	Neutral	-
Mode 2	Pass	QP	228.103k	47.36	62.52	-15.16	Neutral	-
Mode 2	Pass	AV	228.103k	34.00	52.52	-18.52	Neutral	-
Mode 2	Pass	QP	305.276k	37.44	60.09	-22.65	Neutral	-

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 2	Pass	AV	305.276k	26.75	50.09	-23.34	Neutral	-
Mode 2	Pass	QP	1.14M	30.62	56.00	-25.38	Neutral	-
Mode 2	Pass	AV	1.14M	29.78	46.00	-16.22	Neutral	-
Mode 2	Pass	QP	1.747M	31.88	56.00	-24.12	Neutral	-
Mode 2	Pass	AV	1.747M	30.69	46.00	-15.31	Neutral	-
Mode 2	Pass	QP	11.093M	32.56	60.00	-27.44	Neutral	-
Mode 2	Pass	AV	11.093M	28.58	50.00	-21.42	Neutral	-
Mode 3	Pass	QP	153.024k	56.31	65.83	-9.52	Line	-
Mode 3	Pass	AV	153.024k	41.50	55.83	-14.33	Line	-
Mode 3	Pass	QP	227.194k	46.30	62.56	-16.26	Line	-
Mode 3	Pass	AV	227.194k	32.28	52.56	-20.28	Line	-
Mode 3	Pass	QP	304.059k	38.16	60.13	-21.97	Line	-
Mode 3	Pass	AV	304.059k	26.36	50.13	-23.77	Line	-
Mode 3	Pass	QP	1.826M	30.24	56.00	-25.76	Line	-
Mode 3	Pass	AV	1.826M	28.90	46.00	-17.10	Line	-
Mode 3	Pass	QP	2.283M	28.55	56.00	-27.45	Line	-
Mode 3	Pass	AV	2.283M	26.98	46.00	-19.02	Line	-
Mode 3	Pass	QP	12.705M	30.12	60.00	-29.88	Line	-
Mode 3	Pass	AV	12.705M	25.08	50.00	-24.92	Line	-
Mode 3	Pass	QP	152.414k	56.59	65.87	-9.28	Neutral	-
Mode 3	Pass	AV	152.414k	41.69	55.87	-14.18	Neutral	-
Mode 3	Pass	QP	227.194k	46.44	62.56	-16.12	Neutral	-
Mode 3	Pass	AV	227.194k	32.29	52.56	-20.27	Neutral	-
Mode 3	Pass	QP	305.276k	37.63	60.09	-22.46	Neutral	-
Mode 3	Pass	AV	305.276k	26.09	50.09	-24.00	Neutral	-
Mode 3	Pass	QP	535.976k	28.39	56.00	-27.61	Neutral	-
Mode 3	Pass	AV	535.976k	23.16	46.00	-22.84	Neutral	-
Mode 3	Pass	QP	1.826M	30.53	56.00	-25.47	Neutral	-
Mode 3	Pass	AV	1.826M	29.19	46.00	-16.81	Neutral	-
Mode 3	Pass	QP	12.554M	30.06	60.00	-29.94	Neutral	-
Mode 3	Pass	AV	12.554M	25.20	50.00	-24.80	Neutral	-
Mode 4	Pass	QP	163.117k	30.04	65.31	-35.27	Line	-
Mode 4	Pass	AV	163.117k	17.86	55.31	-37.45	Line	-
Mode 4	Pass	QP	238.343k	24.65	62.16	-37.51	Line	-
Mode 4	Pass	AV	238.343k	15.74	52.16	-36.42	Line	-
Mode 4	Pass	QP	248.05k	24.92	61.81	-36.89	Line	-
Mode 4	Pass	AV	248.05k	16.42	51.81	-35.39	Line	-
Mode 4	Pass	QP	798.945k	32.39	56.00	-23.61	Line	-
Mode 4	Pass	AV	798.945k	25.68	46.00	-20.32	Line	-
Mode 4	Pass	QP	4.74M	21.80	56.00	-34.20	Line	-
Mode 4	Pass	AV	4.74M	18.47	46.00	-27.53	Line	-
Mode 4	Pass	QP	11.637M	20.18	60.00	-39.82	Line	-
Mode 4	Pass	AV	11.637M	17.32	50.00	-32.68	Line	-
Mode 4	Pass	QP	244.12k	22.46	61.95	-39.49	Neutral	-
Mode 4	Pass	AV	244.12k	17.15	51.95	-34.80	Neutral	-
Mode 4	Pass	QP	371.231k	26.95	58.47	-31.52	Neutral	-
Mode 4	Pass	AV	371.231k	20.45	48.47	-28.02	Neutral	-
Mode 4	Pass	QP	421.816k	30.27	57.41	-27.14	Neutral	-
Mode 4	Pass	AV	421.816k	23.05	47.41	-24.36	Neutral	-
Mode 4	Pass	QP	755.518k	18.39	56.00	-37.61	Neutral	-
Mode 4	Pass	AV	755.518k	14.65	46.00	-31.35	Neutral	-

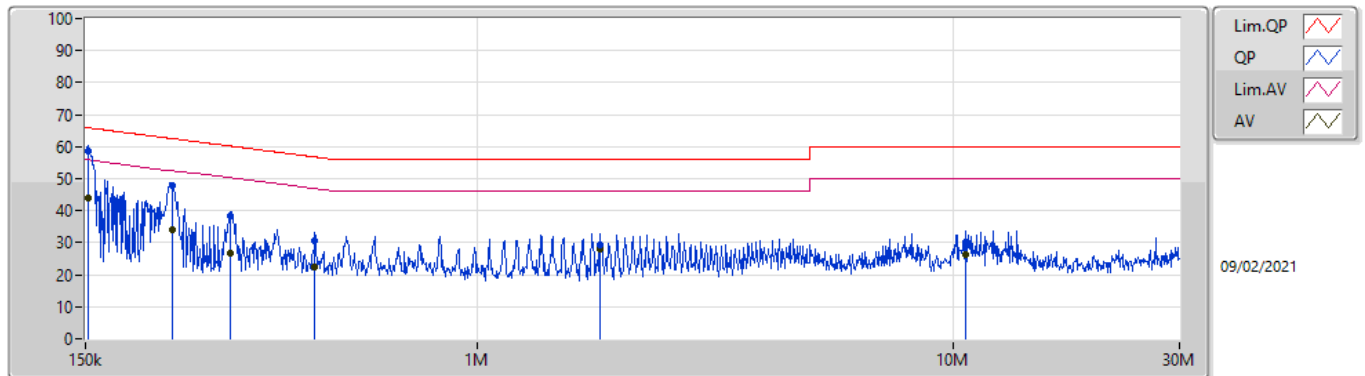
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 4	Pass	QP	2.512M	14.73	56.00	-41.27	Neutral	-
Mode 4	Pass	AV	2.512M	13.03	46.00	-32.97	Neutral	-
Mode 4	Pass	QP	10.282M	15.99	60.00	-44.01	Neutral	-
Mode 4	Pass	AV	10.282M	14.51	50.00	-35.49	Neutral	-

Conducted Emissions at Powerline_Mode 1



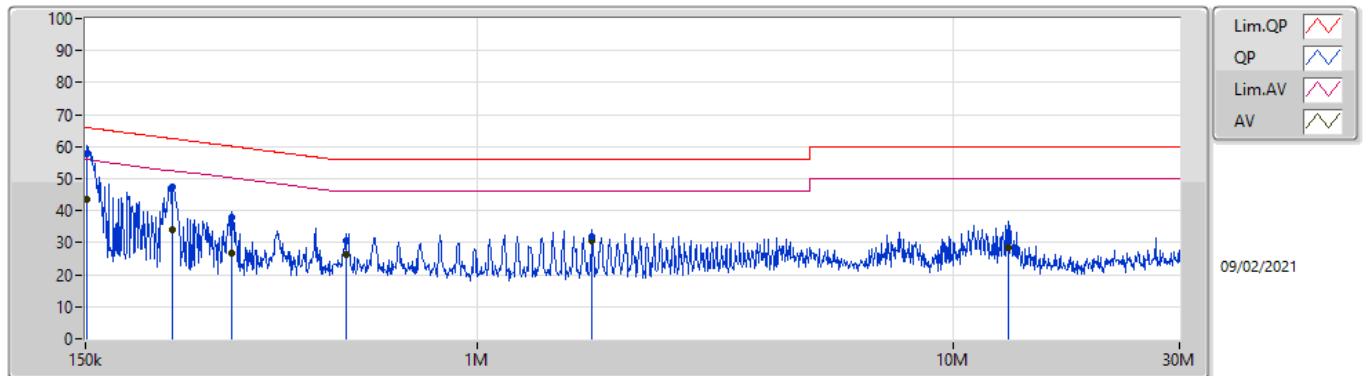
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	152.414k	58.40	65.87	-7.47	19.40	Line	-	39.00	9.68	0.02	9.70			
AV	152.414k	44.11	55.87	-11.76	19.40	Line	-	24.71	9.68	0.02	9.70			
QP	227.194k	48.00	62.56	-14.56	19.39	Line	-	28.61	9.67	0.02	9.70			
AV	227.194k	34.46	52.56	-18.10	19.39	Line	-	15.07	9.67	0.02	9.70			
QP	304.059k	38.36	60.13	-21.77	19.39	Line	-	18.97	9.67	0.02	9.70			
AV	304.059k	26.95	50.13	-23.18	19.39	Line	-	7.56	9.67	0.02	9.70			
QP	1.74M	27.10	56.00	-28.90	19.45	Line	-	7.65	9.68	0.07	9.70			
AV	1.74M	25.73	46.00	-20.27	19.45	Line	-	6.28	9.68	0.07	9.70			
QP	2.502M	28.49	56.00	-27.51	19.47	Line	-	9.02	9.68	0.09	9.70			
AV	2.502M	26.91	46.00	-19.09	19.47	Line	-	7.44	9.68	0.09	9.70			
QP	12.961M	29.84	60.00	-30.16	19.62	Line	-	10.22	9.70	0.22	9.70			
AV	12.961M	24.46	50.00	-25.54	19.62	Line	-	4.84	9.70	0.22	9.70			

Conducted Emissions at Powerline_Mode 1



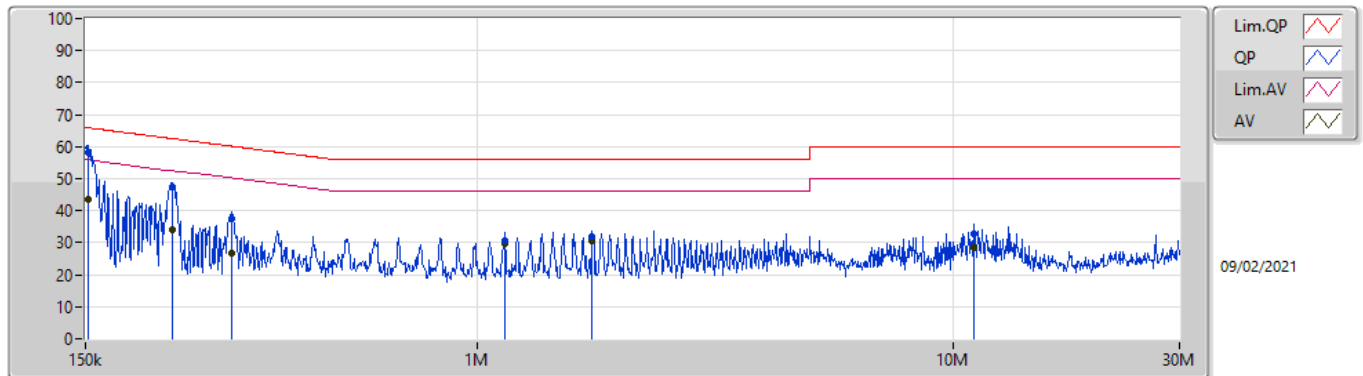
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	152.414k	58.46	65.87	-7.41	19.39	Neutral	-	39.07	9.67	0.02	9.70			
AV	152.414k	44.17	55.87	-11.70	19.39	Neutral	-	24.78	9.67	0.02	9.70			
QP	228.103k	47.76	62.52	-14.76	19.38	Neutral	-	28.38	9.66	0.02	9.70			
AV	228.103k	34.20	52.52	-18.32	19.38	Neutral	-	14.82	9.66	0.02	9.70			
QP	302.848k	38.19	60.17	-21.98	19.37	Neutral	-	18.82	9.65	0.02	9.70			
AV	302.848k	26.73	50.17	-23.44	19.37	Neutral	-	7.36	9.65	0.02	9.70			
QP	455.055k	30.57	56.78	-26.21	19.37	Neutral	-	11.20	9.65	0.02	9.70			
AV	455.055k	22.25	46.78	-24.53	19.37	Neutral	-	2.88	9.65	0.02	9.70			
QP	1.818M	29.15	56.00	-26.85	19.44	Neutral	-	9.71	9.66	0.08	9.70			
AV	1.818M	27.98	46.00	-18.02	19.44	Neutral	-	8.54	9.66	0.08	9.70			
QP	10.616M	30.21	60.00	-29.79	19.62	Neutral	-	10.59	9.72	0.20	9.70			
AV	10.616M	26.35	50.00	-23.65	19.62	Neutral	-	6.73	9.72	0.20	9.70			

Conducted Emissions at Powerline_Mode 2



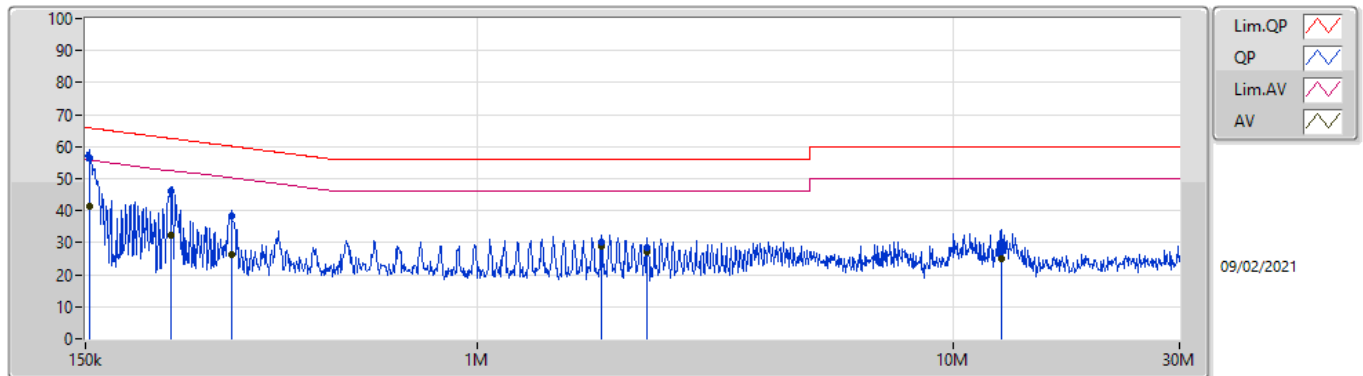
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	151.202k	57.94	65.92	-7.98	19.40	Line	-	38.54	9.68	0.02	9.70			
AV	151.202k	43.57	55.92	-12.35	19.40	Line	-	24.17	9.68	0.02	9.70			
QP	228.103k	47.43	62.52	-15.09	19.39	Line	-	28.04	9.67	0.02	9.70			
AV	228.103k	34.00	52.52	-18.52	19.39	Line	-	14.61	9.67	0.02	9.70			
QP	305.276k	37.94	60.09	-22.15	19.39	Line	-	18.55	9.67	0.02	9.70			
AV	305.276k	26.93	50.09	-23.16	19.39	Line	-	7.54	9.67	0.02	9.70			
QP	529.596k	30.62	56.00	-25.38	19.40	Line	-	11.22	9.67	0.03	9.70			
AV	529.596k	26.23	46.00	-19.77	19.40	Line	-	6.83	9.67	0.03	9.70			
QP	1.747M	31.71	56.00	-24.29	19.45	Line	-	12.26	9.68	0.07	9.70			
AV	1.747M	30.46	46.00	-15.54	19.45	Line	-	11.01	9.68	0.07	9.70			
QP	13.065M	32.99	60.00	-27.01	19.62	Line	-	13.37	9.70	0.22	9.70			
AV	13.065M	28.28	50.00	-21.72	19.62	Line	-	8.66	9.70	0.22	9.70			

Conducted Emissions at Powerline_Mode 2



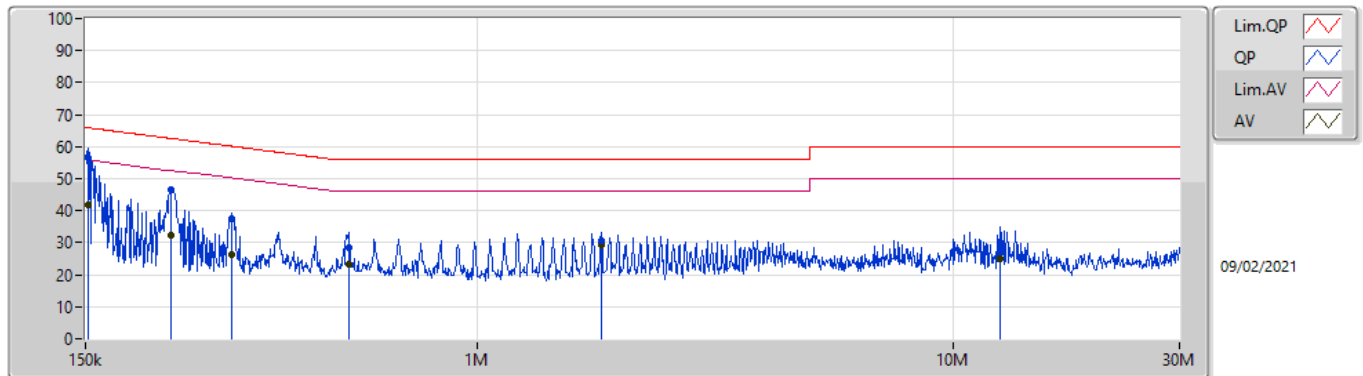
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	151.807k	58.00	65.90	-7.90	19.39	Neutral	-	38.61	9.67	0.02	9.70			
AV	151.807k	43.65	55.90	-12.25	19.39	Neutral	-	24.26	9.67	0.02	9.70			
QP	228.103k	47.36	62.52	-15.16	19.38	Neutral	-	27.98	9.66	0.02	9.70			
AV	228.103k	34.00	52.52	-18.52	19.38	Neutral	-	14.62	9.66	0.02	9.70			
QP	305.276k	37.44	60.09	-22.65	19.37	Neutral	-	18.07	9.65	0.02	9.70			
AV	305.276k	26.75	50.09	-23.34	19.37	Neutral	-	7.38	9.65	0.02	9.70			
QP	1.14M	30.62	56.00	-25.38	19.42	Neutral	-	11.20	9.66	0.06	9.70			
AV	1.14M	29.78	46.00	-16.22	19.42	Neutral	-	10.36	9.66	0.06	9.70			
QP	1.747M	31.88	56.00	-24.12	19.43	Neutral	-	12.45	9.66	0.07	9.70			
AV	1.747M	30.69	46.00	-15.31	19.43	Neutral	-	11.26	9.66	0.07	9.70			
QP	11.093M	32.56	60.00	-27.44	19.62	Neutral	-	12.94	9.72	0.20	9.70			
AV	11.093M	28.58	50.00	-21.42	19.62	Neutral	-	8.96	9.72	0.20	9.70			

Conducted Emissions at Powerline_Mode3



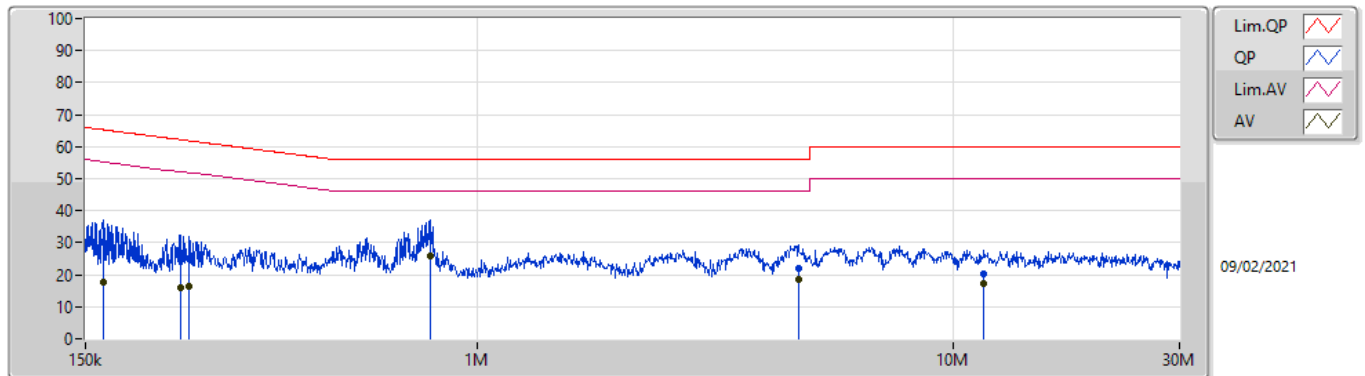
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	153.024k	56.31	65.83	-9.52	19.40	Line	-	36.91	9.68	0.02	9.70			
AV	153.024k	41.50	55.83	-14.33	19.40	Line	-	22.10	9.68	0.02	9.70			
QP	227.194k	46.30	62.56	-16.26	19.39	Line	-	26.91	9.67	0.02	9.70			
AV	227.194k	32.28	52.56	-20.28	19.39	Line	-	12.89	9.67	0.02	9.70			
QP	304.059k	38.16	60.13	-21.97	19.39	Line	-	18.77	9.67	0.02	9.70			
AV	304.059k	26.36	50.13	-23.77	19.39	Line	-	6.97	9.67	0.02	9.70			
QP	1.826M	30.24	56.00	-25.76	19.46	Line	-	10.78	9.68	0.08	9.70			
AV	1.826M	28.90	46.00	-17.10	19.46	Line	-	9.44	9.68	0.08	9.70			
QP	2.283M	28.55	56.00	-27.45	19.47	Line	-	9.08	9.68	0.09	9.70			
AV	2.283M	26.98	46.00	-19.02	19.47	Line	-	7.51	9.68	0.09	9.70			
QP	12.705M	30.12	60.00	-29.88	19.61	Line	-	10.51	9.70	0.21	9.70			
AV	12.705M	25.08	50.00	-24.92	19.61	Line	-	5.47	9.70	0.21	9.70			

Conducted Emissions at Powerline_Mode 3



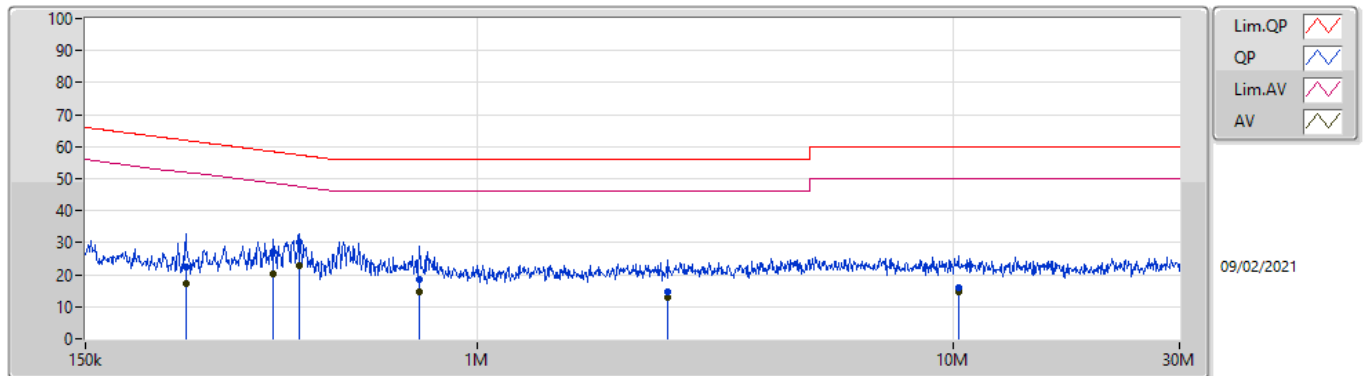
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	152.414k	56.59	65.87	-9.28	19.39	Neutral	-	37.20	9.67	0.02	9.70			
AV	152.414k	41.69	55.87	-14.18	19.39	Neutral	-	22.30	9.67	0.02	9.70			
QP	227.194k	46.44	62.56	-16.12	19.38	Neutral	-	27.06	9.66	0.02	9.70			
AV	227.194k	32.29	52.56	-20.27	19.38	Neutral	-	12.91	9.66	0.02	9.70			
QP	305.276k	37.63	60.09	-22.46	19.37	Neutral	-	18.26	9.65	0.02	9.70			
AV	305.276k	26.09	50.09	-24.00	19.37	Neutral	-	6.72	9.65	0.02	9.70			
QP	535.976k	28.39	56.00	-27.61	19.38	Neutral	-	9.01	9.65	0.03	9.70			
AV	535.976k	23.16	46.00	-22.84	19.38	Neutral	-	3.78	9.65	0.03	9.70			
QP	1.826M	30.53	56.00	-25.47	19.44	Neutral	-	11.09	9.66	0.08	9.70			
AV	1.826M	29.19	46.00	-16.81	19.44	Neutral	-	9.75	9.66	0.08	9.70			
QP	12.554M	30.06	60.00	-29.94	19.63	Neutral	-	10.43	9.72	0.21	9.70			
AV	12.554M	25.20	50.00	-24.80	19.63	Neutral	-	5.57	9.72	0.21	9.70			

Conducted Emissions at Powerline_Mode 4



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	163.117k	30.04	65.31	-35.27	19.40	Line	-	10.64	9.68	0.02	9.70			
AV	163.117k	17.86	55.31	-37.45	19.40	Line	-	-1.54	9.68	0.02	9.70			
QP	238.343k	24.65	62.16	-37.51	19.39	Line	-	5.26	9.67	0.02	9.70			
AV	238.343k	15.74	52.16	-36.42	19.39	Line	-	-3.65	9.67	0.02	9.70			
QP	248.05k	24.92	61.81	-36.89	19.39	Line	-	5.53	9.67	0.02	9.70			
AV	248.05k	16.42	51.81	-35.39	19.39	Line	-	-2.97	9.67	0.02	9.70			
QP	798.945k	32.39	56.00	-23.61	19.41	Line	-	12.98	9.67	0.04	9.70			
AV	798.945k	25.68	46.00	-20.32	19.41	Line	-	6.27	9.67	0.04	9.70			
QP	4.74M	21.80	56.00	-34.20	19.52	Line	-	2.28	9.70	0.12	9.70			
AV	4.74M	18.47	46.00	-27.53	19.52	Line	-	-1.05	9.70	0.12	9.70			
QP	11.637M	20.18	60.00	-39.82	19.61	Line	-	0.57	9.71	0.20	9.70			
AV	11.637M	17.32	50.00	-32.68	19.61	Line	-	-2.29	9.71	0.20	9.70			

Conducted Emissions at Powerline_Mode 4



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	244.12k	22.46	61.95	-39.49	19.38	Neutral	-	3.08	9.66	0.02	9.70			
AV	244.12k	17.15	51.95	-34.80	19.38	Neutral	-	-2.23	9.66	0.02	9.70			
QP	371.231k	26.95	58.47	-31.52	19.37	Neutral	-	7.58	9.65	0.02	9.70			
AV	371.231k	20.45	48.47	-28.02	19.37	Neutral	-	1.08	9.65	0.02	9.70			
QP	421.816k	30.27	57.41	-27.14	19.37	Neutral	-	10.90	9.65	0.02	9.70			
AV	421.816k	23.05	47.41	-24.36	19.37	Neutral	-	3.68	9.65	0.02	9.70			
QP	755.518k	18.39	56.00	-37.61	19.40	Neutral	-	-1.01	9.66	0.04	9.70			
AV	755.518k	14.65	46.00	-31.35	19.40	Neutral	-	-4.75	9.66	0.04	9.70			
QP	2.512M	14.73	56.00	-41.27	19.45	Neutral	-	-4.72	9.66	0.09	9.70			
AV	2.512M	13.03	46.00	-32.97	19.45	Neutral	-	-6.42	9.66	0.09	9.70			
QP	10.282M	15.99	60.00	-44.01	19.61	Neutral	-	-3.62	9.72	0.19	9.70			
AV	10.282M	14.51	50.00	-35.49	19.61	Neutral	-	-5.10	9.72	0.19	9.70			



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)	928.75k	899.55k	900KF1D	926.25k	893.303k
BT-EDR(2Mbps)	1.321M	1.312M	1M31G1D	1.289M	1.288M
BT-EDR(3Mbps)	1.264M	1.263M	1M26G1D	1.259M	1.218M

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

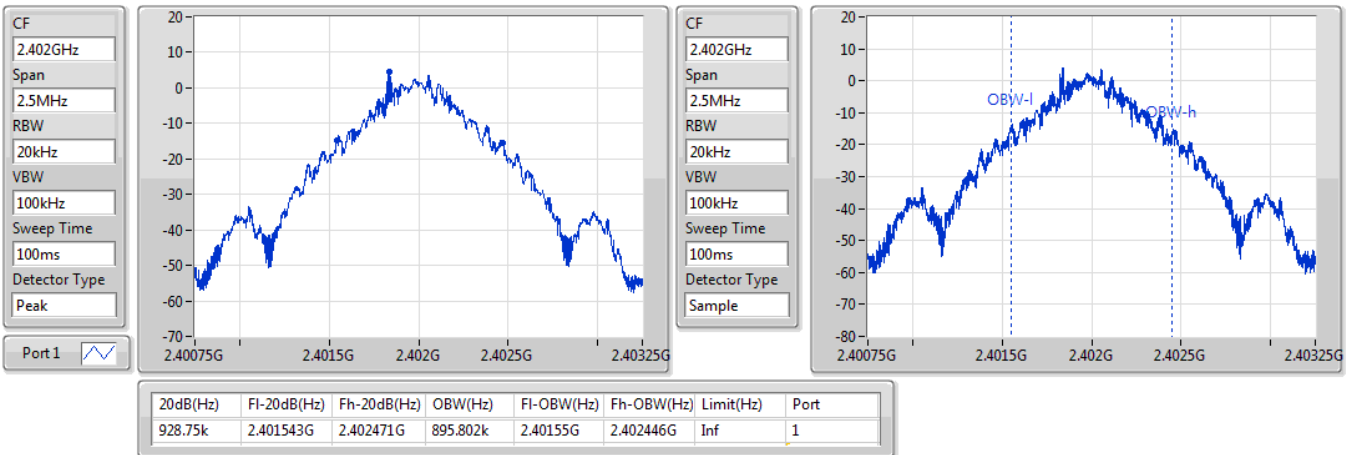
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	Inf	928.75k	895.802k
2440MHz	Pass	Inf	928.75k	899.55k
2480MHz	Pass	Inf	926.25k	893.303k
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.321M	1.312M
2440MHz	Pass	Inf	1.289M	1.297M
2480MHz	Pass	Inf	1.301M	1.288M
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.264M	1.263M
2440MHz	Pass	Inf	1.259M	1.222M
2480MHz	Pass	Inf	1.26M	1.218M

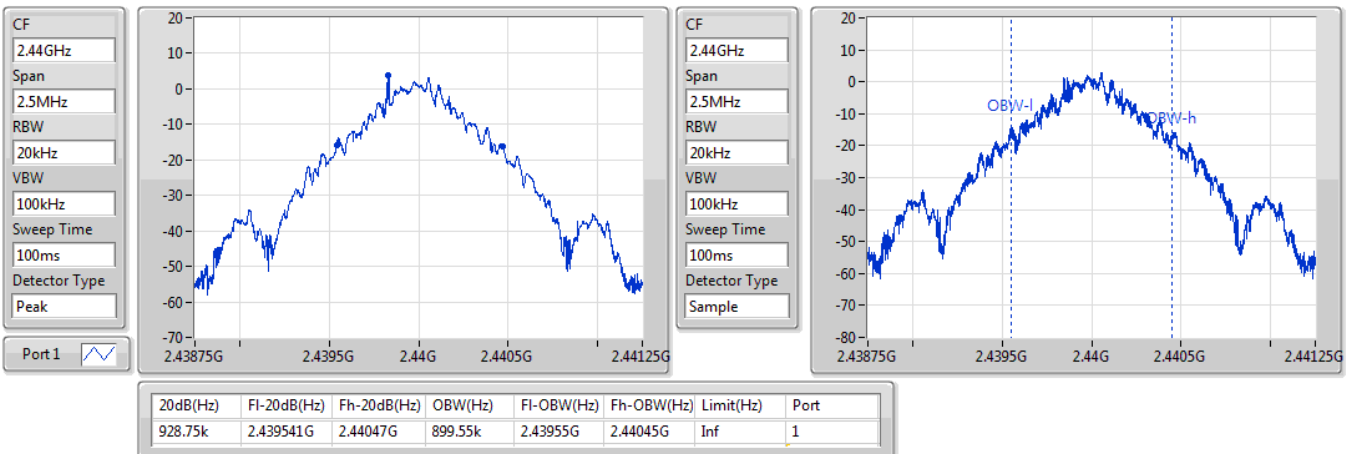
Port X-N dB = Port X 20dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

BT-BR(1Mbps)
2402MHz
EBW-FS

08/02/2021

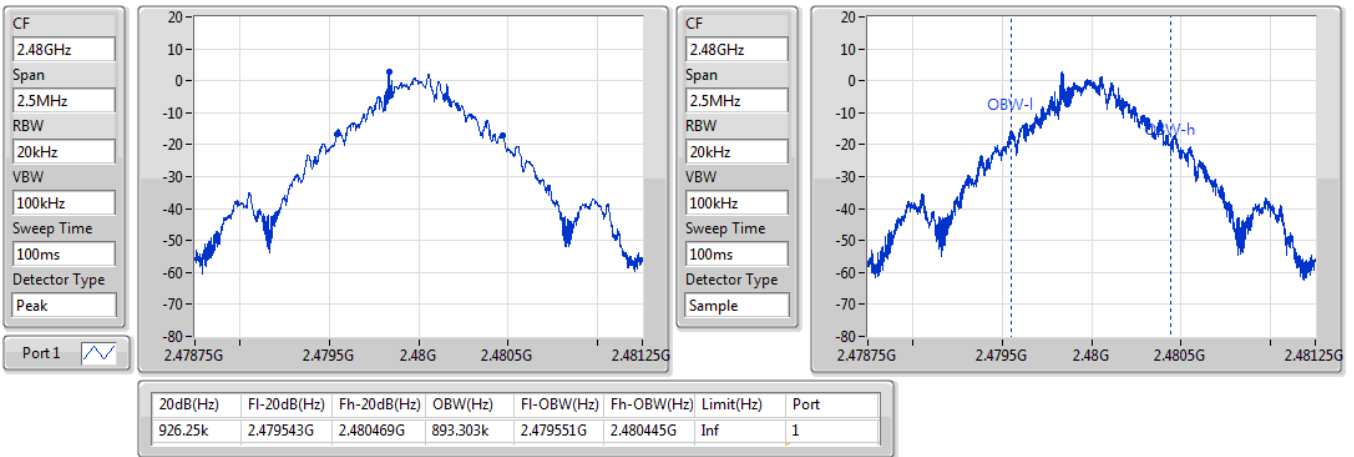

BT-BR(1Mbps)
2440MHz
EBW-FS

08/02/2021

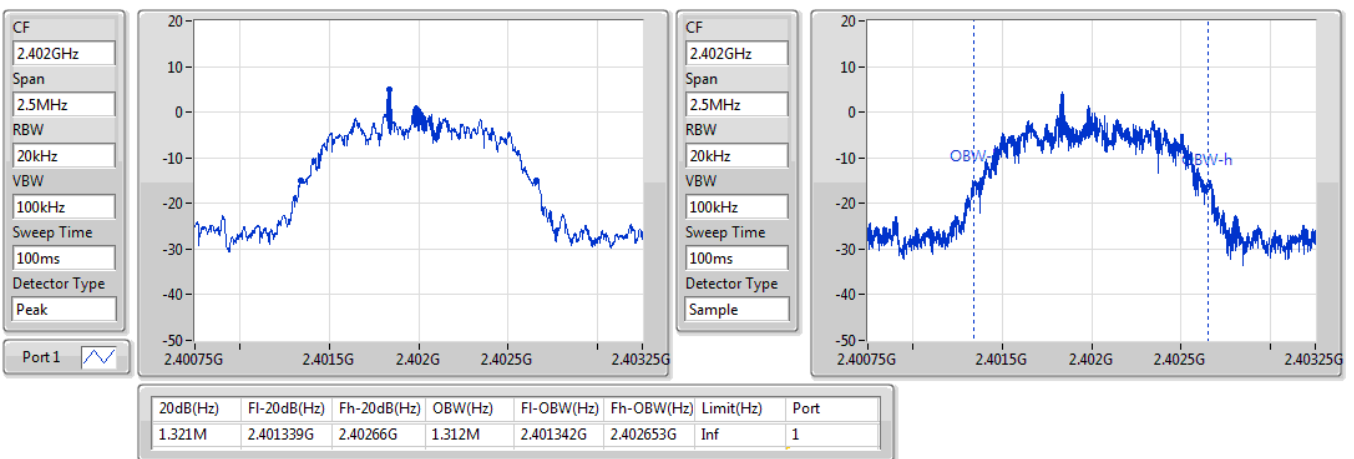


BT-BR(1Mbps)
EBW-FS
2480MHz

08/02/2021

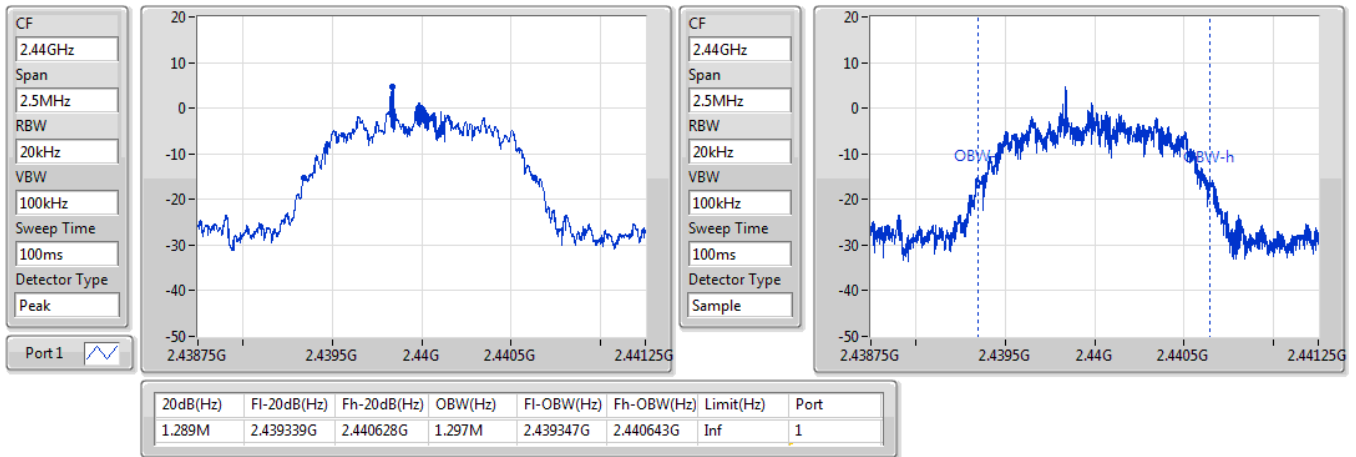

BT-EDR(2Mbps)
EBW-FS
2402MHz

08/02/2021

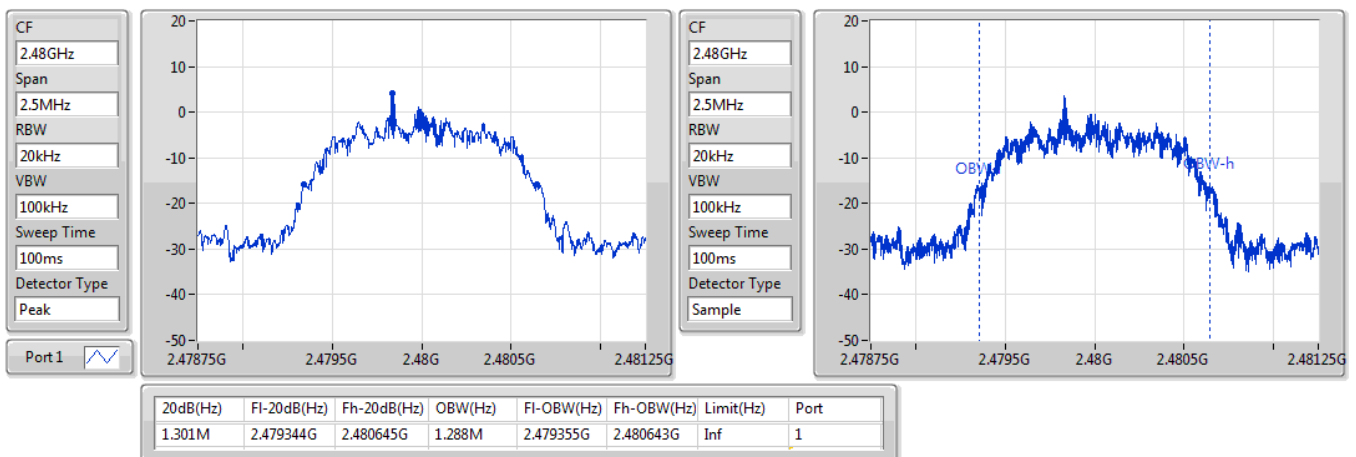


BT-EDR(2Mbps)
EBW-FS
2440MHz

08/02/2021

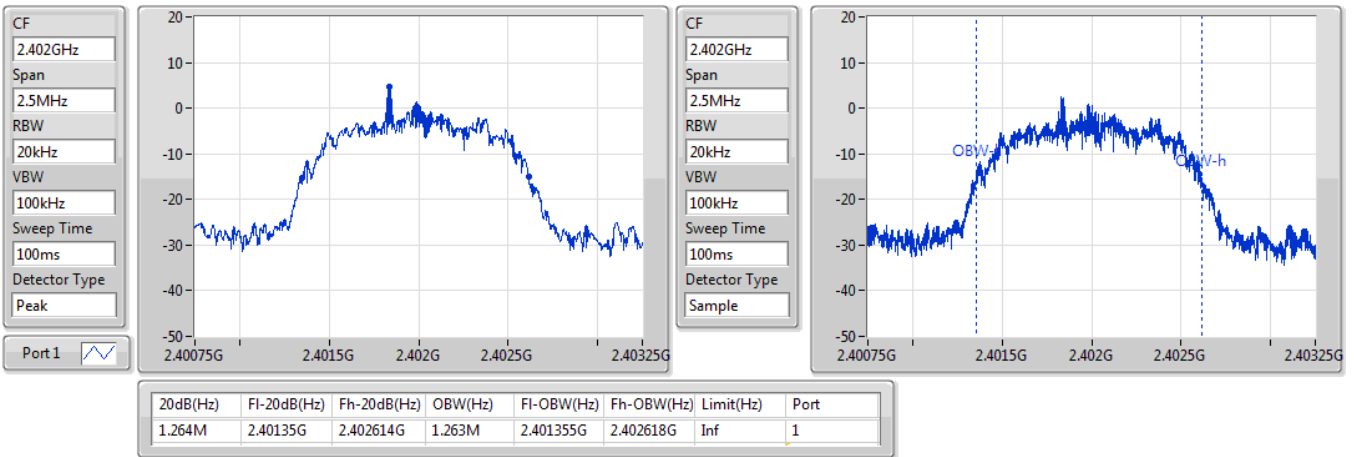

BT-EDR(2Mbps)
EBW-FS
2480MHz

08/02/2021

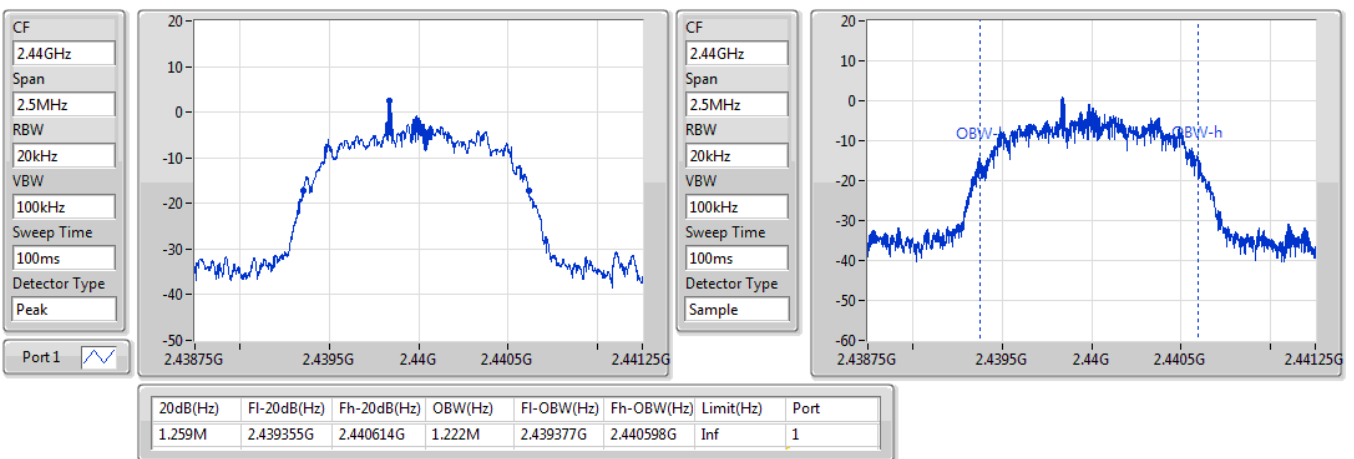


BT-EDR(3Mbps)
EBW-FS
2402MHz

08/02/2021

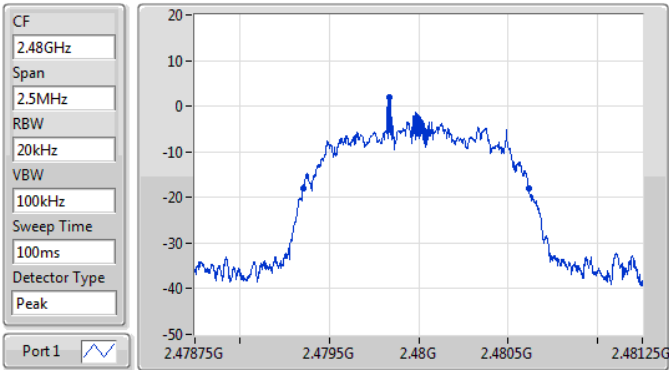

BT-EDR(3Mbps)
EBW-FS
2440MHz

08/02/2021



BT-EDR(3Mbps)

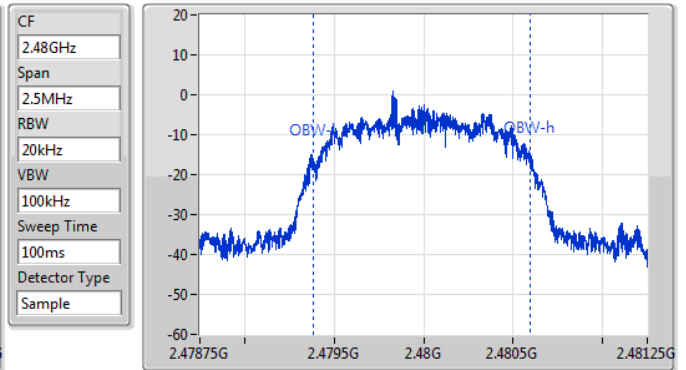
2480MHz



20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.26M	2.479354G	2.480614G	1.218M	2.47938G	2.480598G	Inf	1

EBW-FS

08/02/2021





Summary

Mode	Max-Space (Hz)	Min-Space (Hz)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	1.0005M	999k
BT-EDR(2Mbps)	1.0035M	1.0005M
BT-EDR(3Mbps)	1.0005M	999k

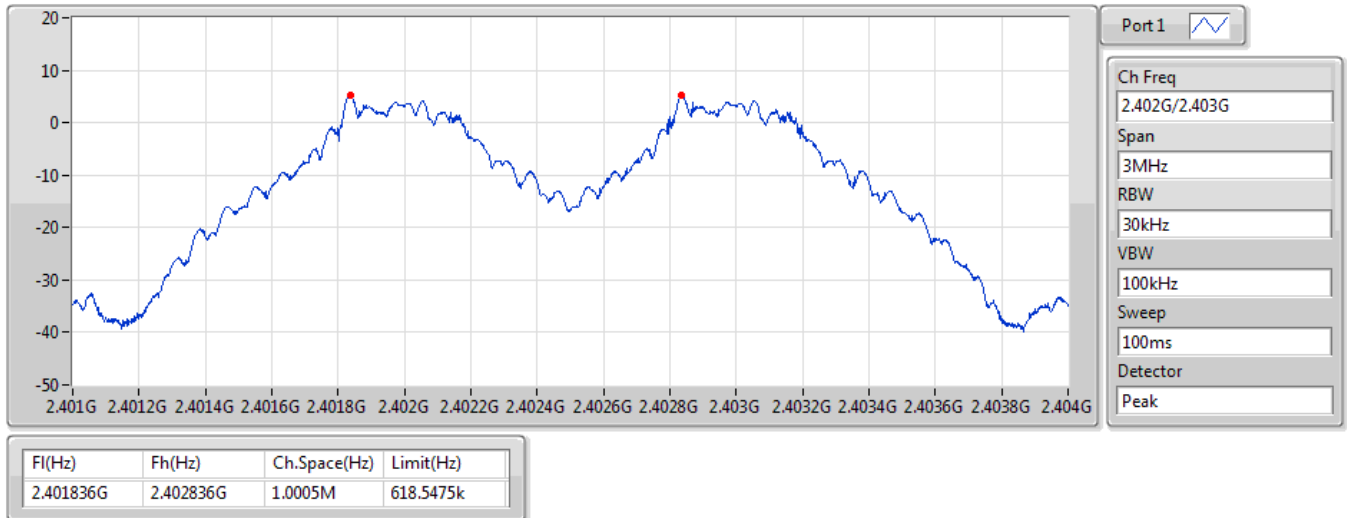
Result

Mode	Result	Fl (Hz)	Fh (Hz)	Ch.Space (Hz)	Limit (Hz)
BT-BR(1Mbps)	-	-	-	-	-
2402MHz	Pass	2.401836G	2.402836G	1.0005M	618.5475k
2440MHz	Pass	2.439836G	2.440835G	999k	618.5475k
2480MHz	Pass	2.478836G	2.479836G	1.0005M	616.8825k
BT-EDR(2Mbps)	-	-	-	-	-
2402MHz	Pass	2.401836G	2.402836G	1.0005M	879.786k
2440MHz	Pass	2.439836G	2.440838G	1.002M	858.474k
2480MHz	Pass	2.478834G	2.479838G	1.0035M	866.466k
BT-EDR(3Mbps)	-	-	-	-	-
2402MHz	Pass	2.401836G	2.402835G	999k	841.824k
2440MHz	Pass	2.439836G	2.440836G	1.0005M	838.494k
2480MHz	Pass	2.478836G	2.479835G	999k	839.16k

BT-BR(1Mbps)

Channel Separation-FS

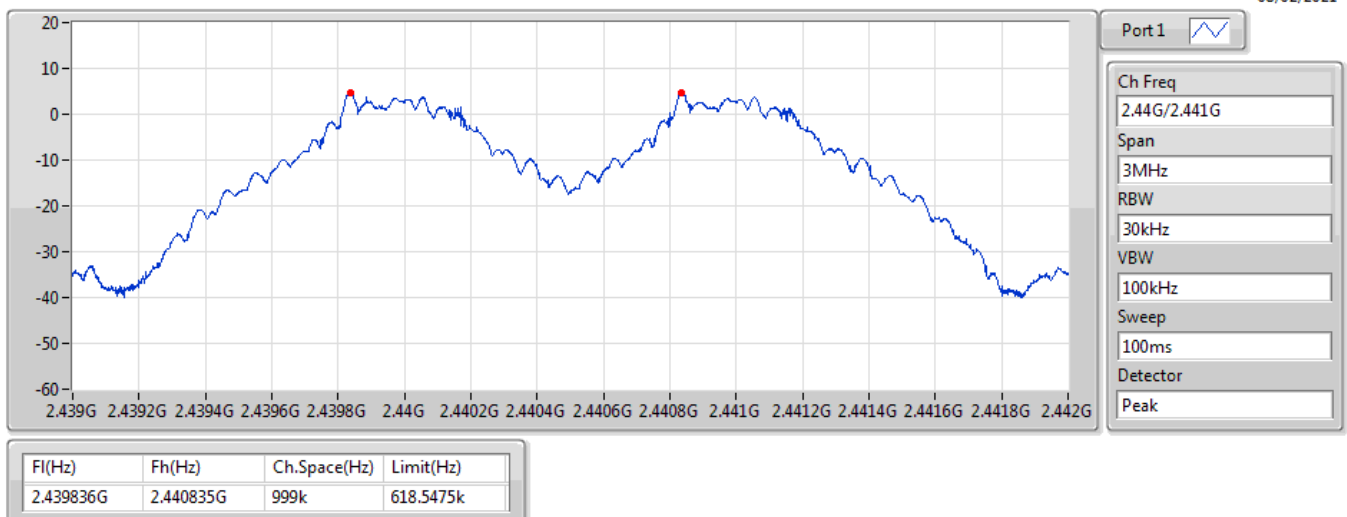
2.402G/2.403GHz



BT-BR(1Mbps)

Channel Separation-FS

2.44G/2.441GHz

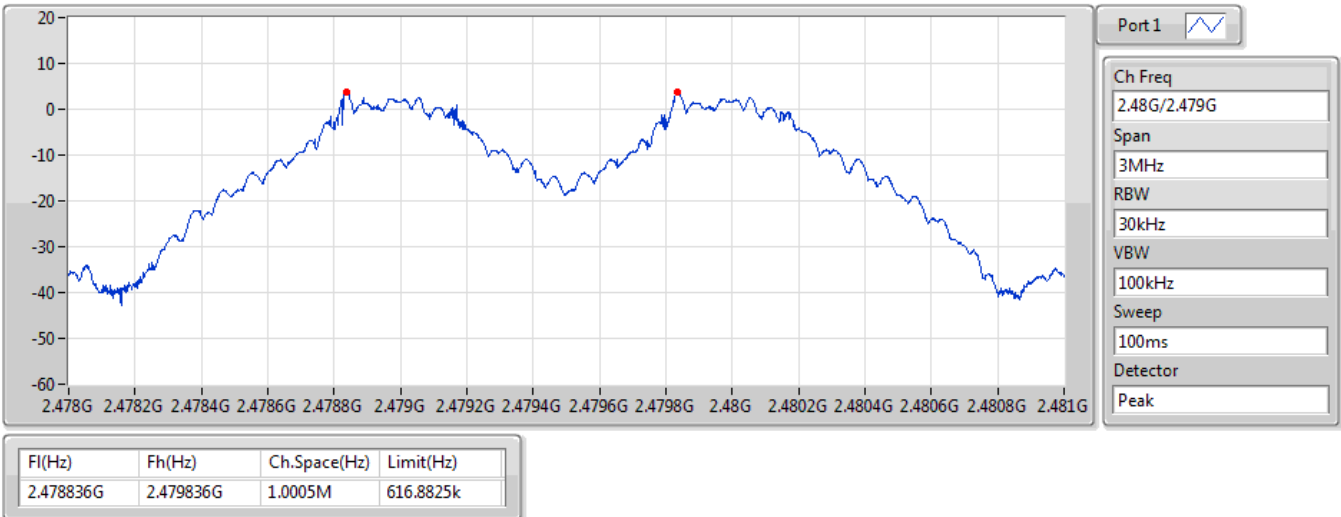


BT-BR(1Mbps)

2.48G/2.479GHz

Channel Separation-FS

08/02/2021

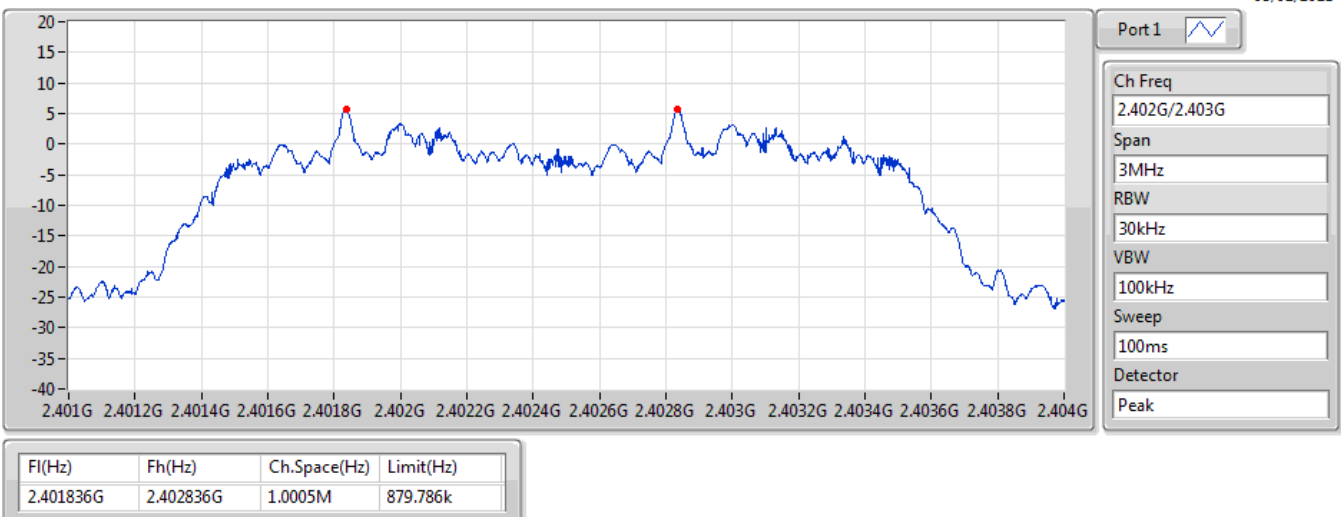


BT-EDR(2Mbps)

2.402G/2.403GHz

Channel Separation-FS

08/02/2021

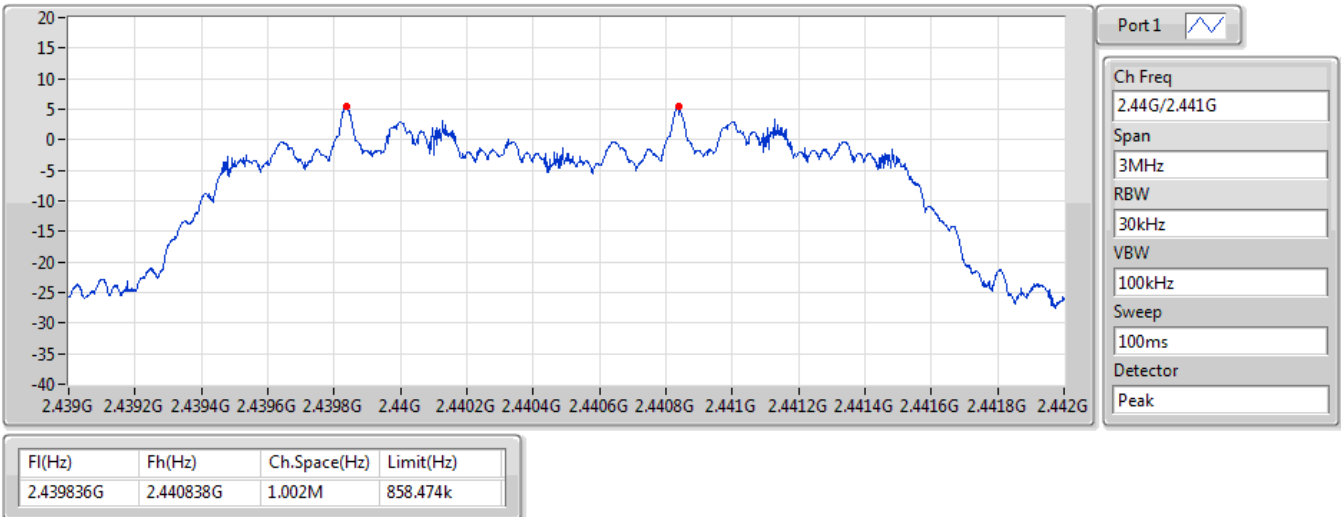


BT-EDR(2Mbps)

2.44G/2.441GHz

Channel Separation-FS

08/02/2021

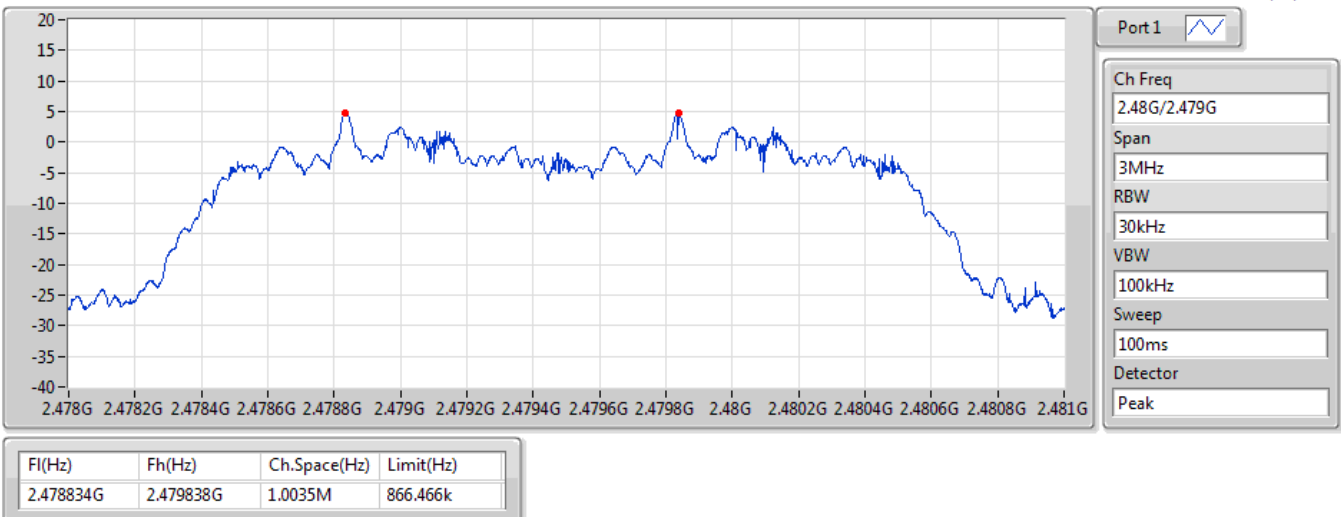


BT-EDR(2Mbps)

2.48G/2.479GHz

Channel Separation-FS

08/02/2021



BT-EDR(3Mbps)

2.402G/2.403GHz

Channel Separation-FS

08/02/2021



BT-EDR(3Mbps)

2.44G/2.441GHz

Channel Separation-FS

08/02/2021



BT-EDR(3Mbps)

2.48G/2.479GHz

Channel Separation-FS

08/02/2021





Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	6.97	0.00498
BT-EDR(2Mbps)	7.95	0.00624
BT-EDR(3Mbps)	8.00	0.00631



Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	2.20	6.97	21.00
2440MHz	Pass	2.20	6.57	21.00
2480MHz	Pass	2.20	5.39	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	2.20	7.95	21.00
2440MHz	Pass	2.20	7.66	21.00
2480MHz	Pass	2.20	7.20	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	2.20	8.00	21.00
2440MHz	Pass	2.20	6.70	21.00
2480MHz	Pass	2.20	6.16	21.00

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



Average Power-FHSS

Appendix C.2

Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	6.95	0.00495
BT-EDR(2Mbps)	7.12	0.00515
BT-EDR(3Mbps)	6.71	0.00469

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	2.20	6.95	21.00
2440MHz	Pass	2.20	6.52	21.00
2480MHz	Pass	2.20	5.34	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	2.20	7.12	21.00
2440MHz	Pass	2.20	6.65	21.00
2480MHz	Pass	2.20	6.25	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	2.20	6.71	21.00
2440MHz	Pass	2.20	4.69	21.00
2480MHz	Pass	2.20	4.17	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

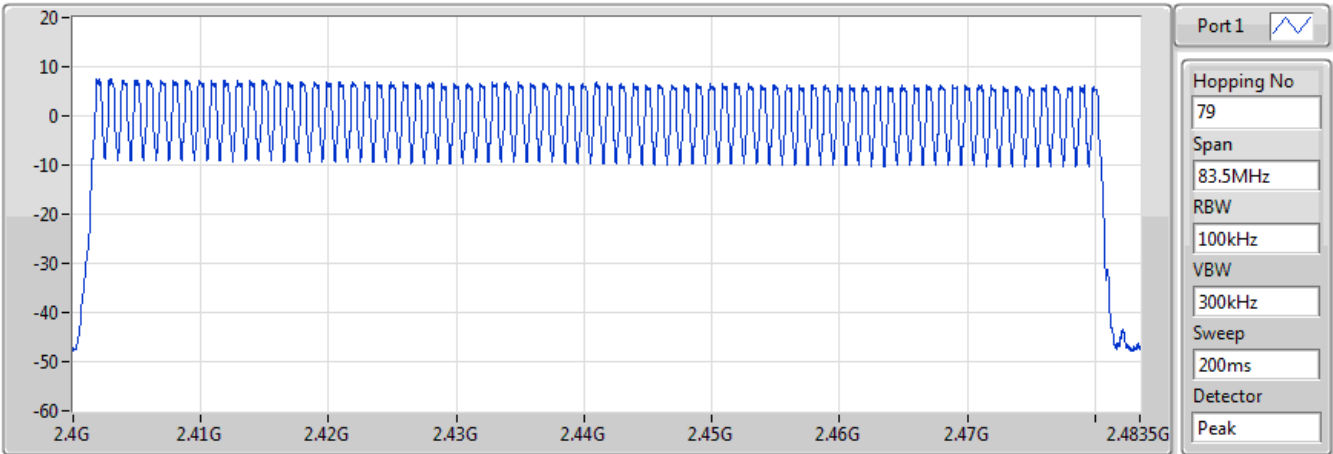
Mode	Result	Hopping No	Limit
BT-BR(1Mbps)	-	-	-
2440MHz	Pass	79	15
BT-EDR(2Mbps)	-	-	-
2440MHz	Pass	79	15
BT-EDR(3Mbps)	-	-	-
2440MHz	Pass	79	15

BT-BR(1Mbps)

Hopping-FS

2440MHz

08/02/2021



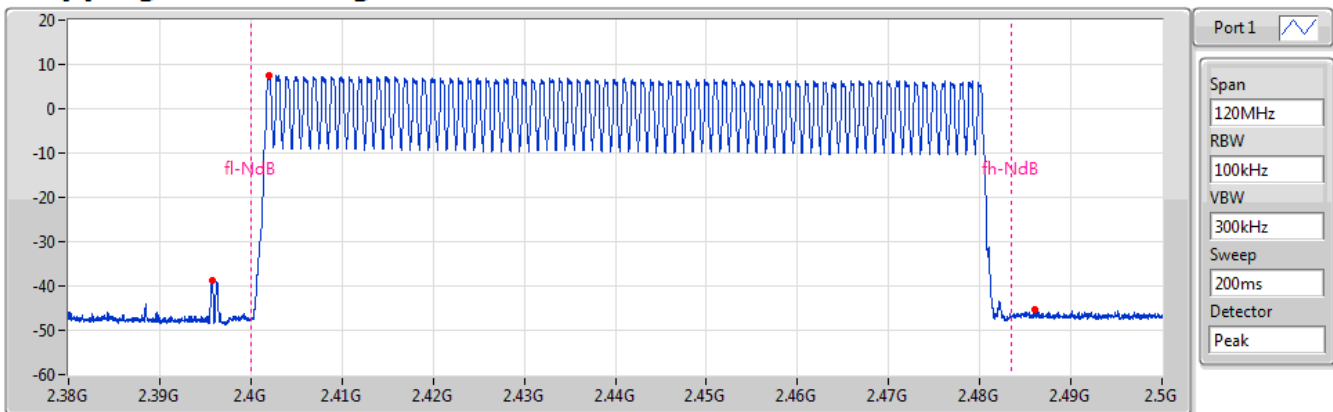
Hopping No	Limit
79	15

BT-BR(1Mbps)

2440MHz

Hopping Ch Bandedge (Non-restricted Band)

08/02/2021



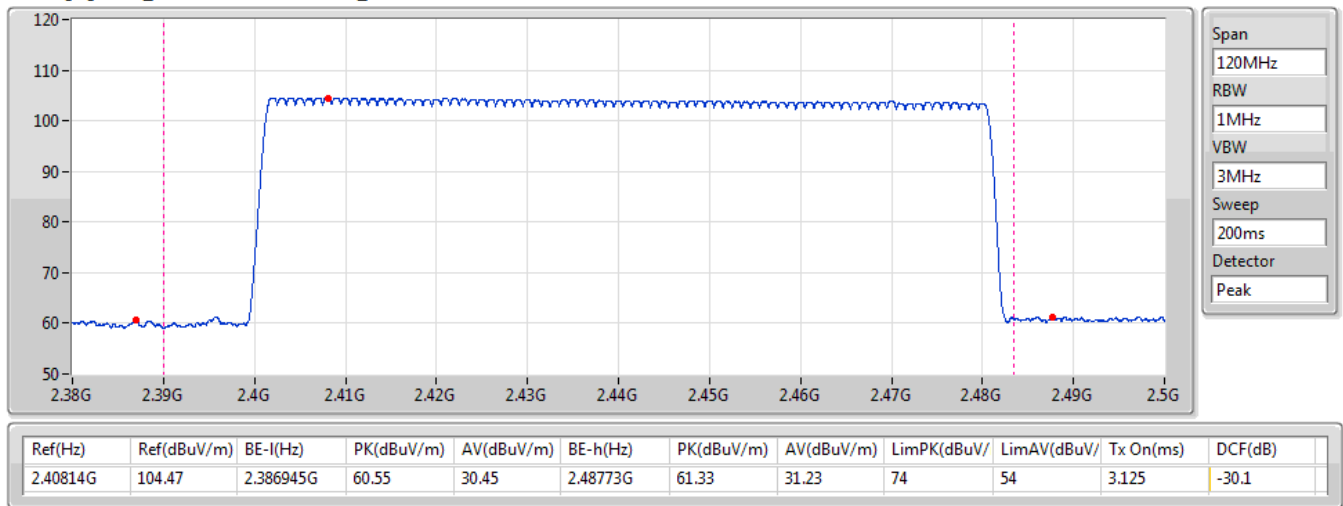
Limit(dBm)	Ref(Hz)	Ref(dBm)	BE-l(Hz)	BE-l(dBm)	BE-h(Hz)	BE-h(dBm)
-12.53	2.40199G	7.47	2.39575G	-38.77	2.48602G	-45.41

BT-BR(1Mbps)

2440MHz

Hopping Ch Bandedge (Restricted Band)

08/02/2021

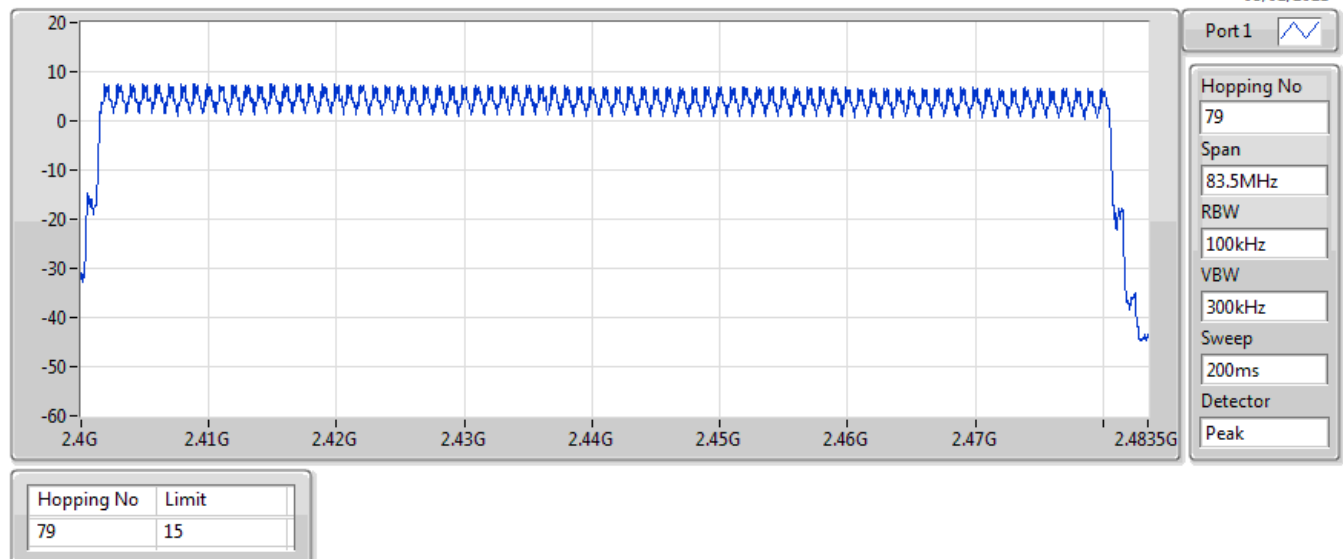


BT-EDR(2Mbps)

2440MHz

Hopping-FS

08/02/2021

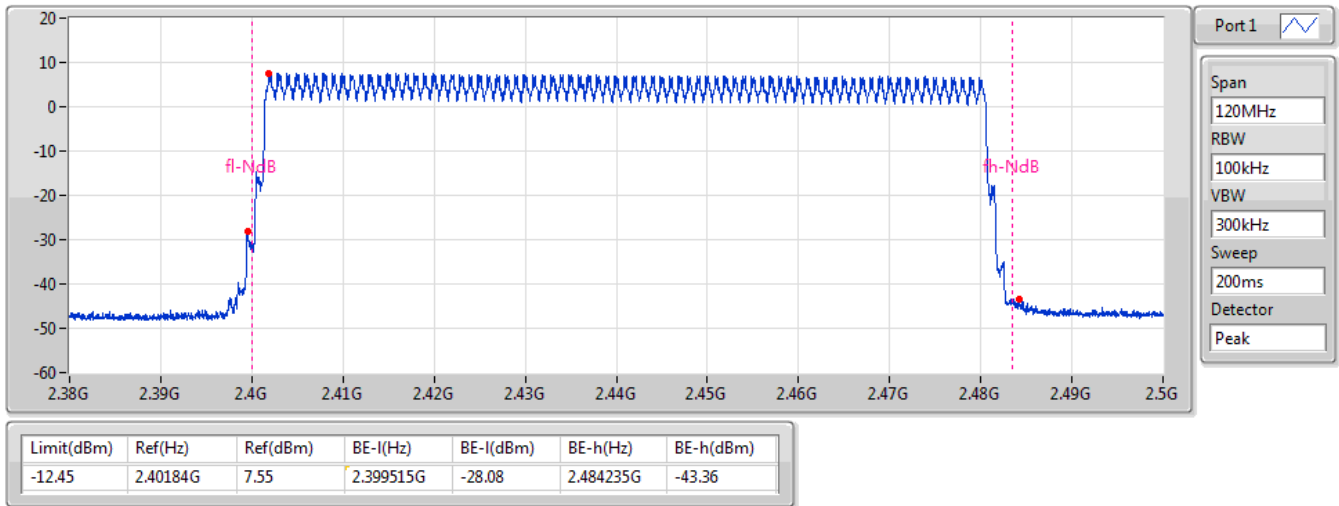


BT-EDR(2Mbps)

2440MHz

Hopping Ch Bandedge (Non-restricted Band)

08/02/2021

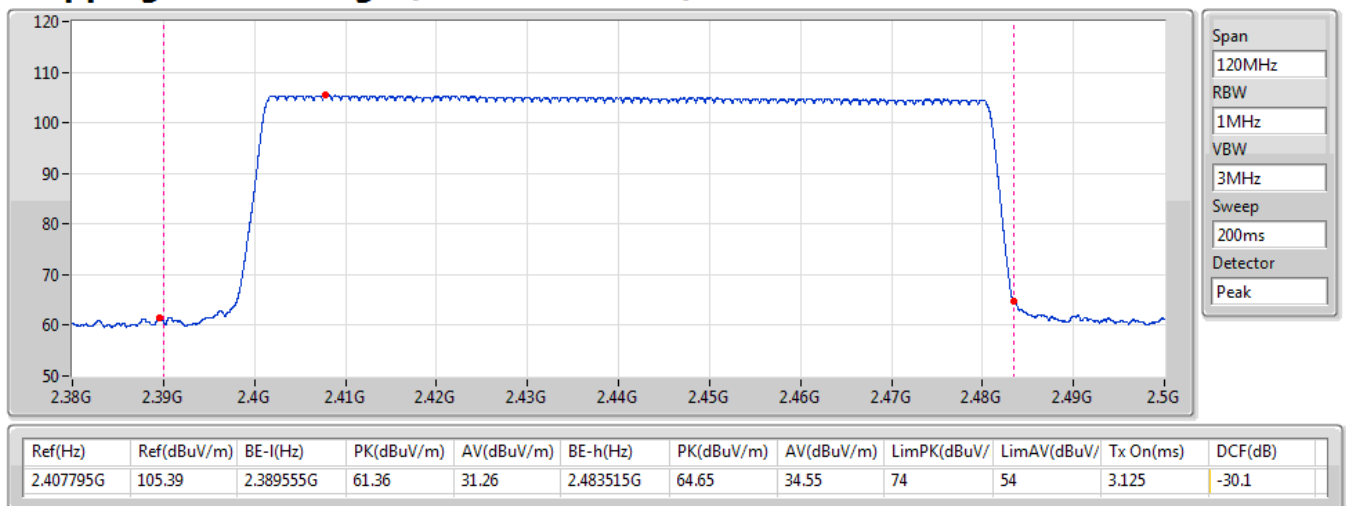


BT-EDR(2Mbps)

2440MHz

Hopping Ch Bandedge (Restricted Band)

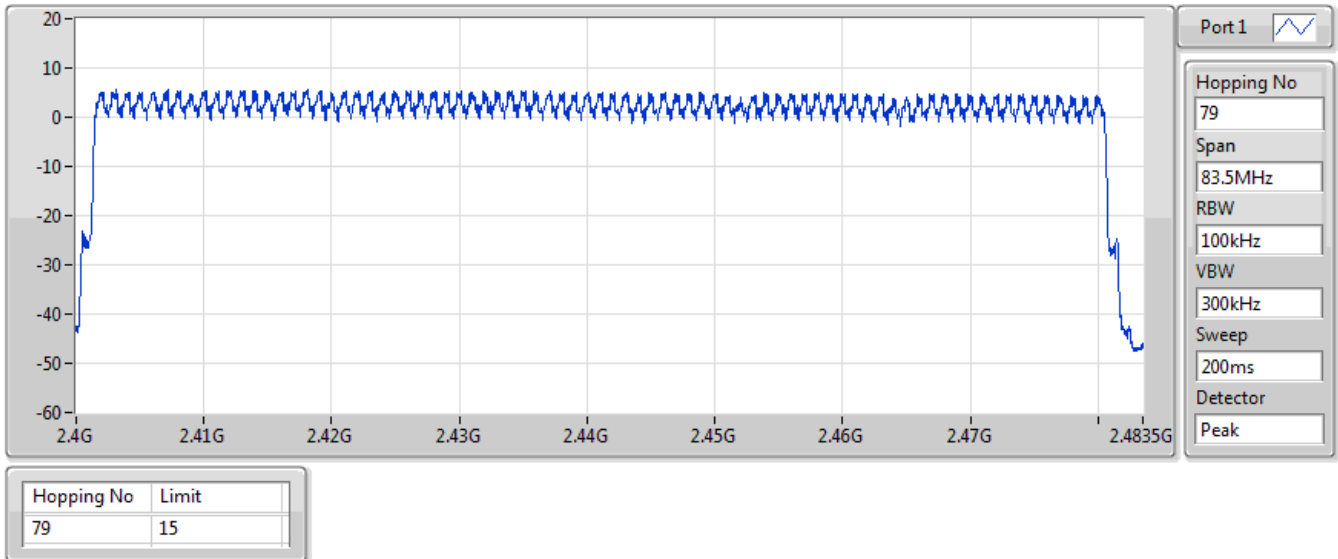
08/02/2021



BT-EDR(3Mbps) 2440MHz

Hopping-FS

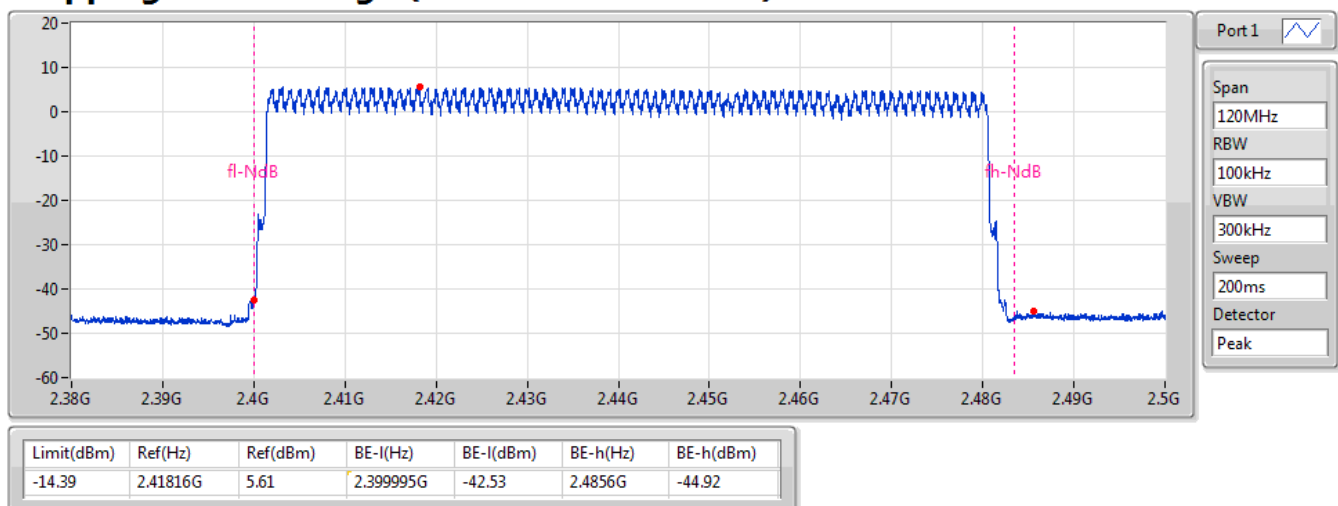
08/02/2021



BT-EDR(3Mbps) 2440MHz

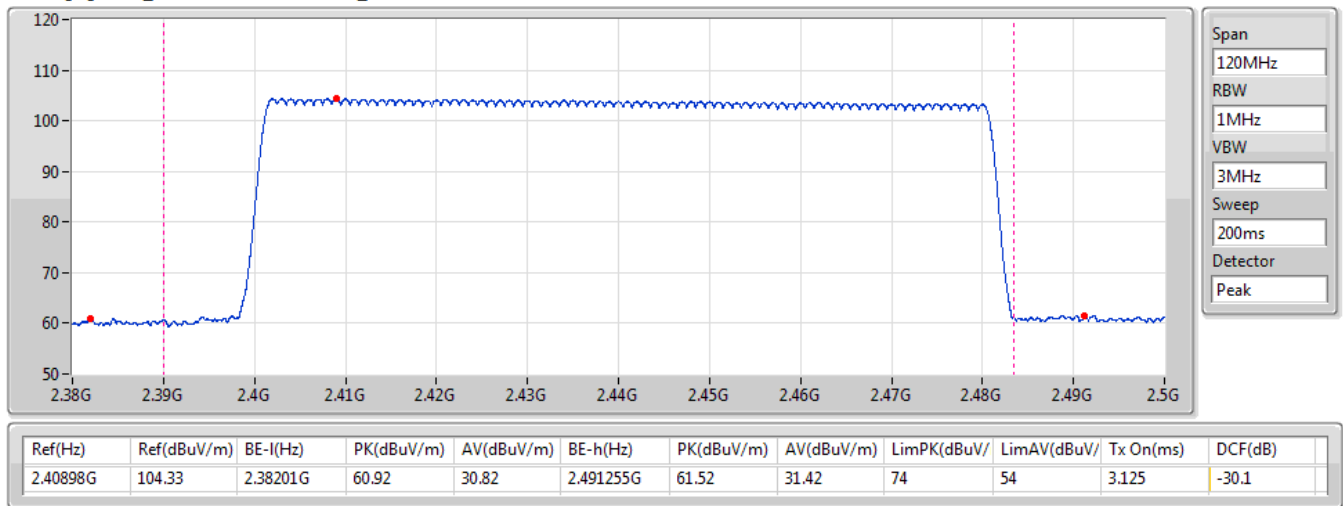
Hopping Ch Bandedge (Non-restricted Band)

08/02/2021



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

08/02/2021





Summary

Mode	Max-Dwell (s)
2.4-2.4835GHz	-
BT-BR(1Mbps)	309.16665m_DH5
BT-EDR(2Mbps)	310.7923m_DH5
BT-EDR(3Mbps)	311.0055m_DH5

Result

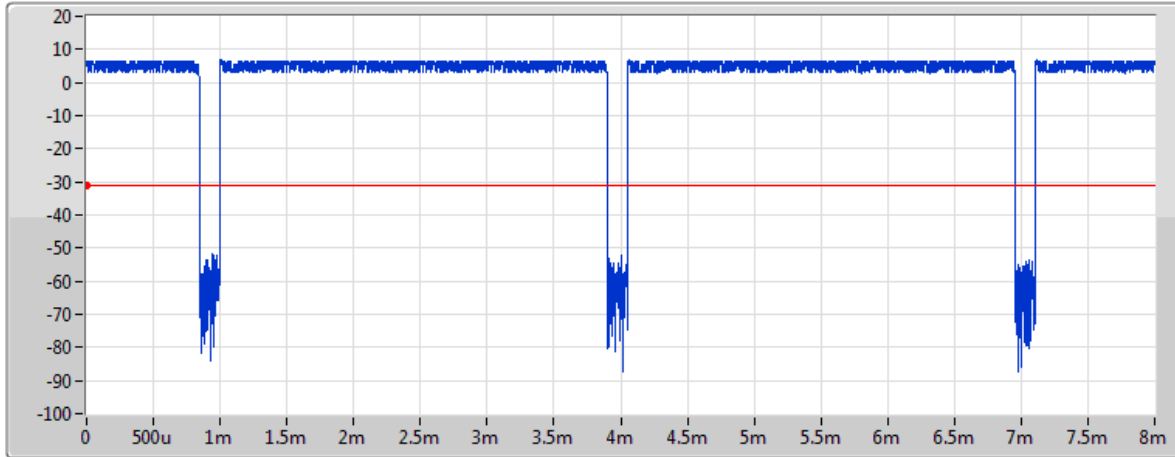
Mode	Result	Period (s)	Dwell (s)	Limit (s)	Tx On (s)
BT-BR(1Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	309.16665m_DH5	400m	2.90025m
BT-EDR(2Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	310.7923m_DH5	400m	2.9155m
BT-EDR(3Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	311.0055m_DH5	400m	2.9175m

BT-BR(1Mbps)

2440MHz

Dwell-FS

08/02/2021



Port 1 

Ch Freq
2.44GHz

RBW
300kHz

VBW
1MHz

Sweep Time
8ms

TX Time
2.90025ms

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	309.16665m_DH5	400m	2.90025m

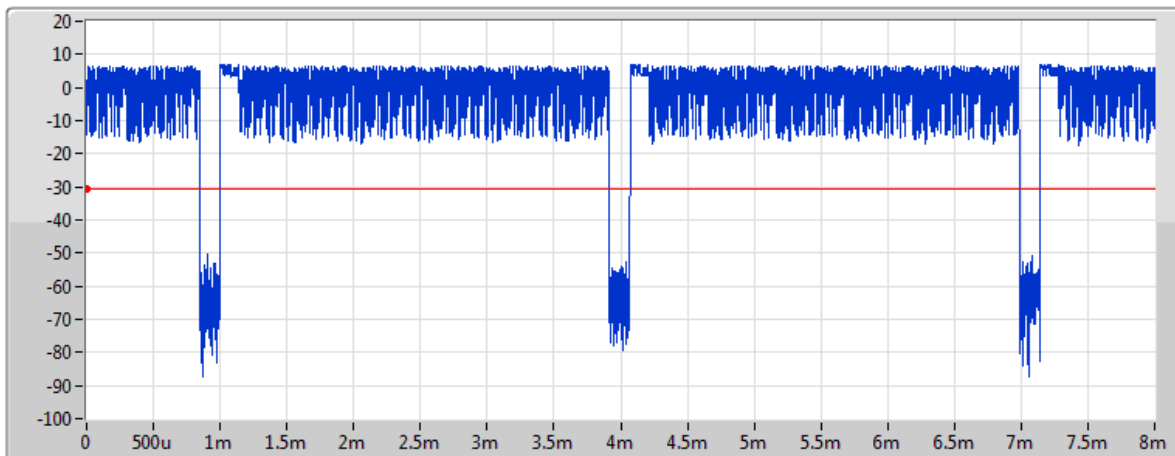
DH5

BT-EDR(2Mbps)

2440MHz

Dwell-FS

08/02/2021



Port 1 

Ch Freq
2.44GHz

RBW
300kHz

VBW
1MHz

Sweep Time
8ms

TX Time
2.9155ms

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	310.7923m_DH5	400m	2.9155m

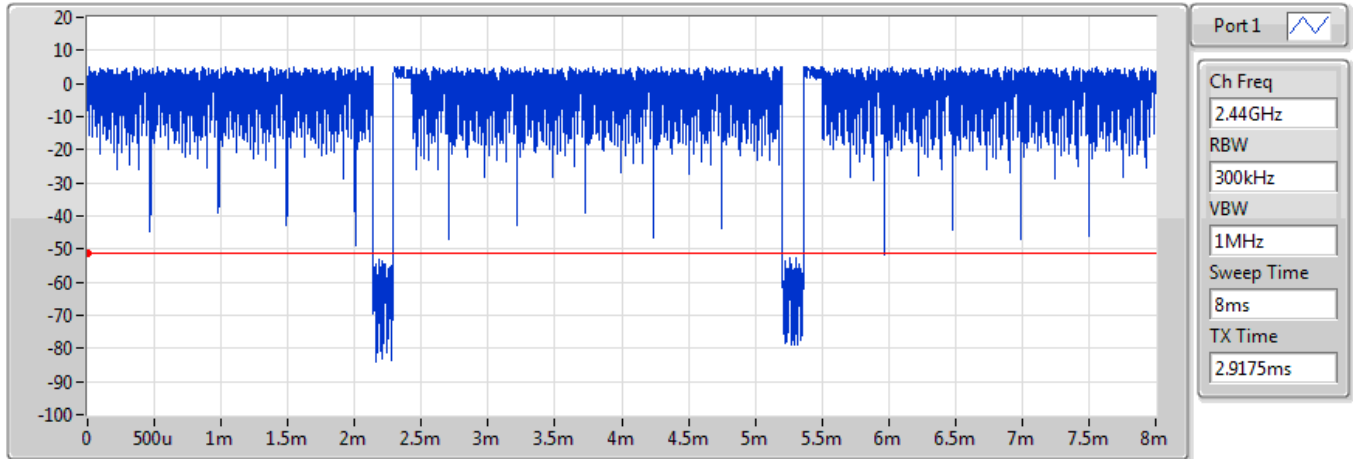
DH5

BT-EDR(3Mbps)

Dwell-FS

2440MHz

08/02/2021



Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	311.0055m_DH5	400m	2.9175m

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	2.40205G	6.24	-13.76	2.08096G	-55.27	2.39969G	-45.26	2.4G	-46.11	2.48741G	-52.78	24.8369G	-41.25	1
BT-EDR(2Mbps)	Pass	2.4018G	6.64	-13.36	1.89825G	-55.95	2.39953G	-28.47	2.4G	-31.84	2.49118G	-53.54	23.45899G	-40.55	1
BT-EDR(3Mbps)	Pass	2.40205G	5.57	-14.43	1.98491G	-55.52	2.39952G	-31.38	2.4G	-34.45	2.50022G	-52.53	14.68817G	-41.67	1

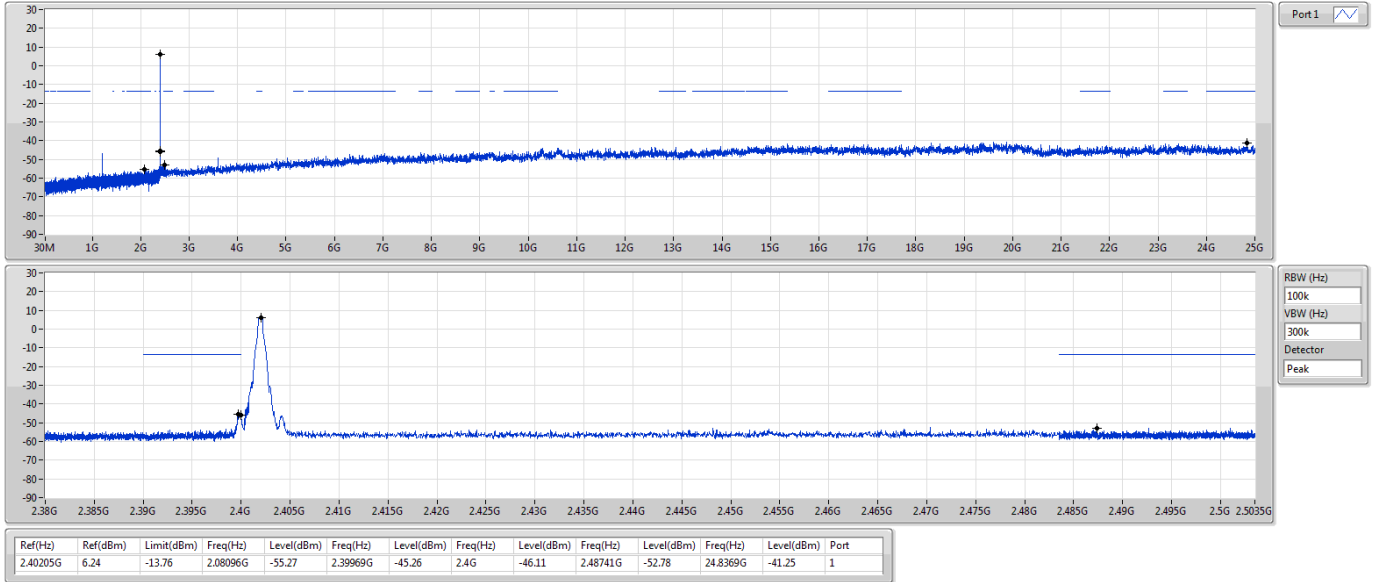
Result

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	2.40205G	6.24	-13.76	2.08096G	-55.27	2.39969G	-45.26	2.4G	-46.11	2.48741G	-52.78	24.8369G	-41.25	1
2440MHz	Pass	2.43983G	6.49	-13.51	721.78M	-47.02	2.39981G	-53.81	2.4835G	-54.15	2.49203G	-52.12	17.66614G	-41.11	1
2480MHz	Pass	2.48008G	4.73	-15.27	2.12561G	-55.25	2.39209G	-54.57	2.4835G	-55.88	2.48945G	-53.52	23.38588G	-40.32	1
BT-EDR(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.4018G	6.64	-13.36	1.89825G	-55.95	2.39953G	-28.47	2.4G	-31.84	2.49118G	-53.54	23.45899G	-40.55	1
2440MHz	Pass	2.44G	6.03	-13.97	2.13531G	-54.10	2.39886G	-52.61	2.4G	-56.16	2.49844G	-53.09	16.30791G	-40.66	1
2480MHz	Pass	2.47983G	6.10	-13.90	2.13296G	-54.40	2.39911G	-54.62	2.4835G	-46.26	2.48412G	-45.59	16.60318G	-41.32	1
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40205G	5.57	-14.43	1.98491G	-55.52	2.39952G	-31.38	2.4G	-34.45	2.50022G	-52.53	14.68817G	-41.67	1
2440MHz	Pass	2.43983G	5.01	-14.99	1.96816G	-54.81	2.39956G	-52.63	2.4G	-55.80	2.49407G	-53.21	24.82565G	-40.88	1
2480MHz	Pass	2.47987G	4.08	-15.92	2.00576G	-54.96	2.39901G	-54.36	2.4835G	-53.14	2.48446G	-50.44	23.37744G	-40.96	1

BT-BR(1Mbps)

CSENdB-FS

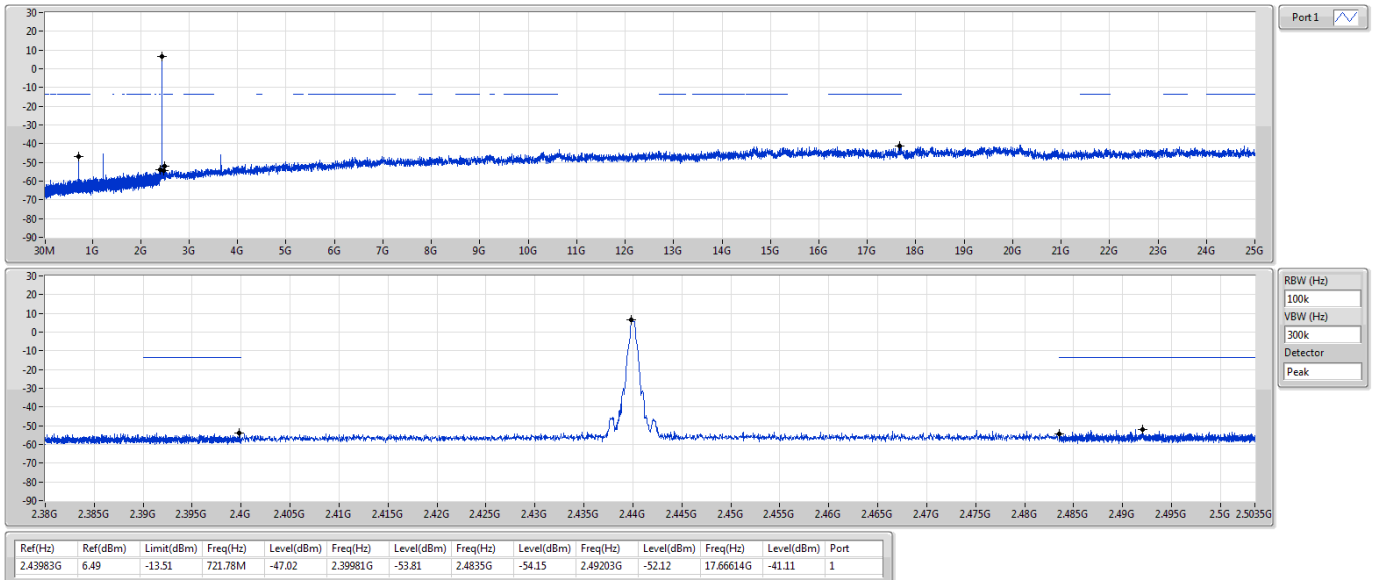
2402MHz



BT-BR(1Mbps)

CSENdB-FS

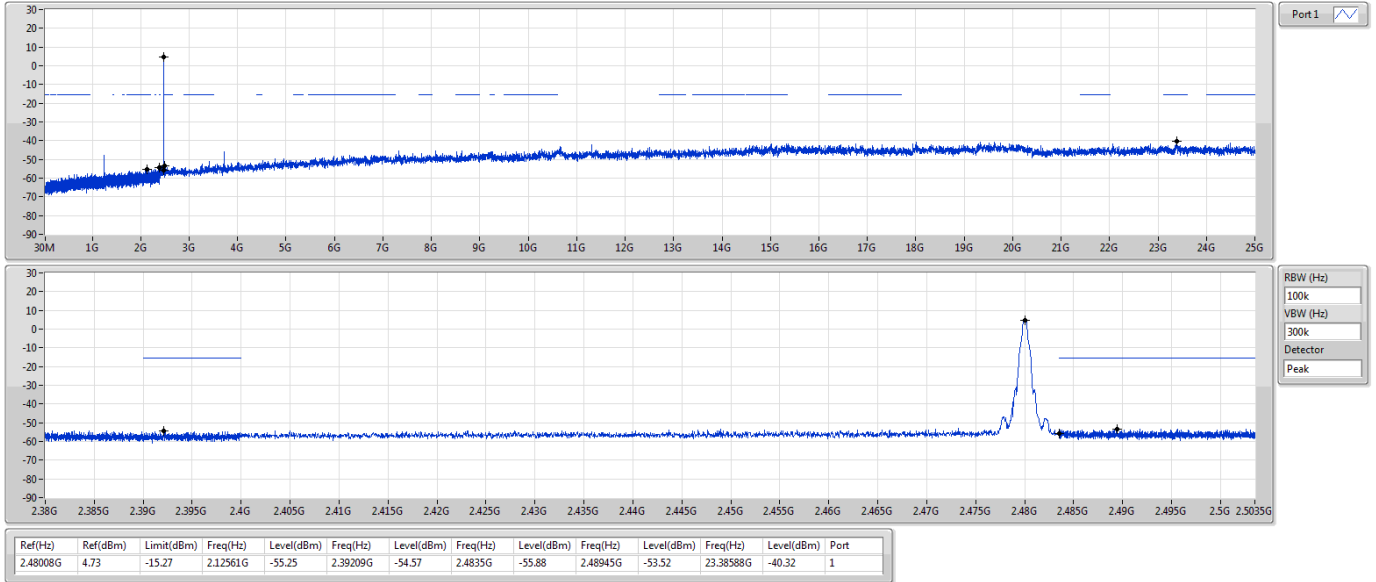
2440MHz



BT-BR(1Mbps)

CSEndB-FS

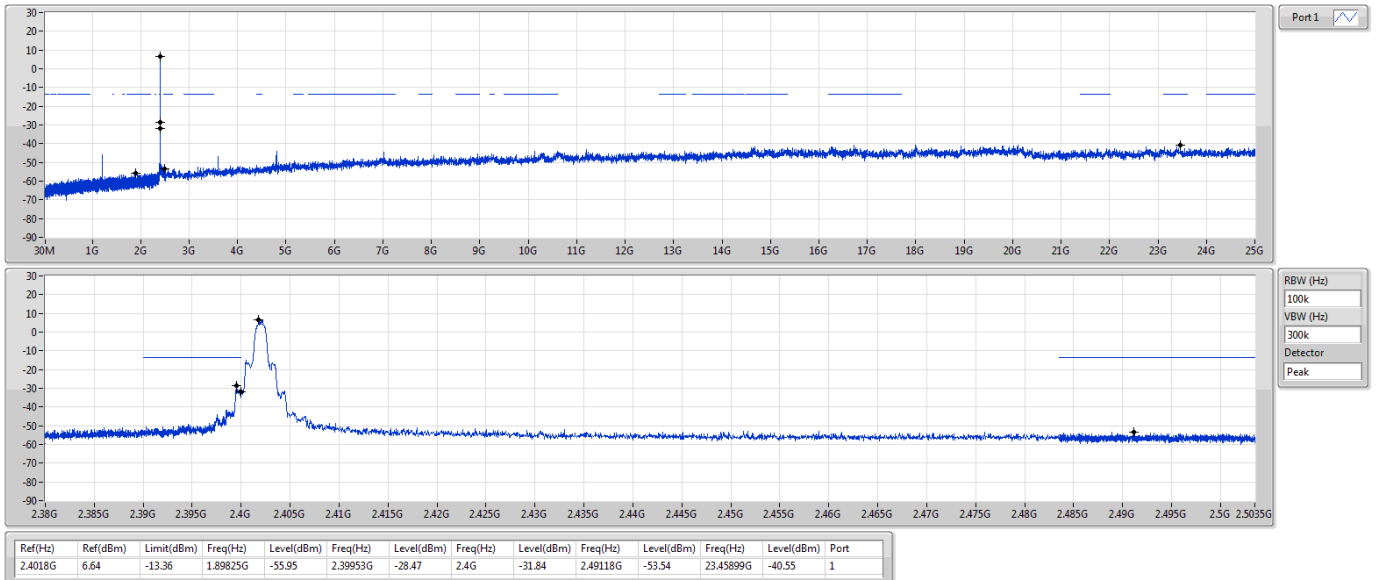
2480MHz



BT-EDR(2Mbps)

CSEndB-FS

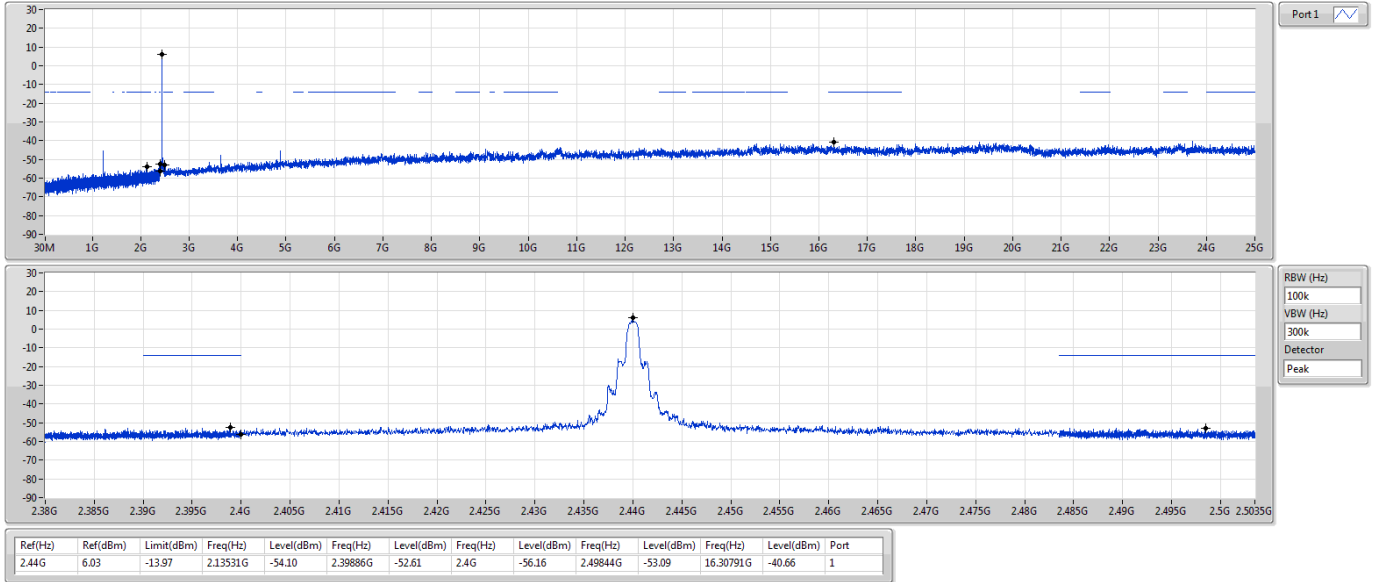
2402MHz



BT-EDR(2Mbps)

CSEndB-FS

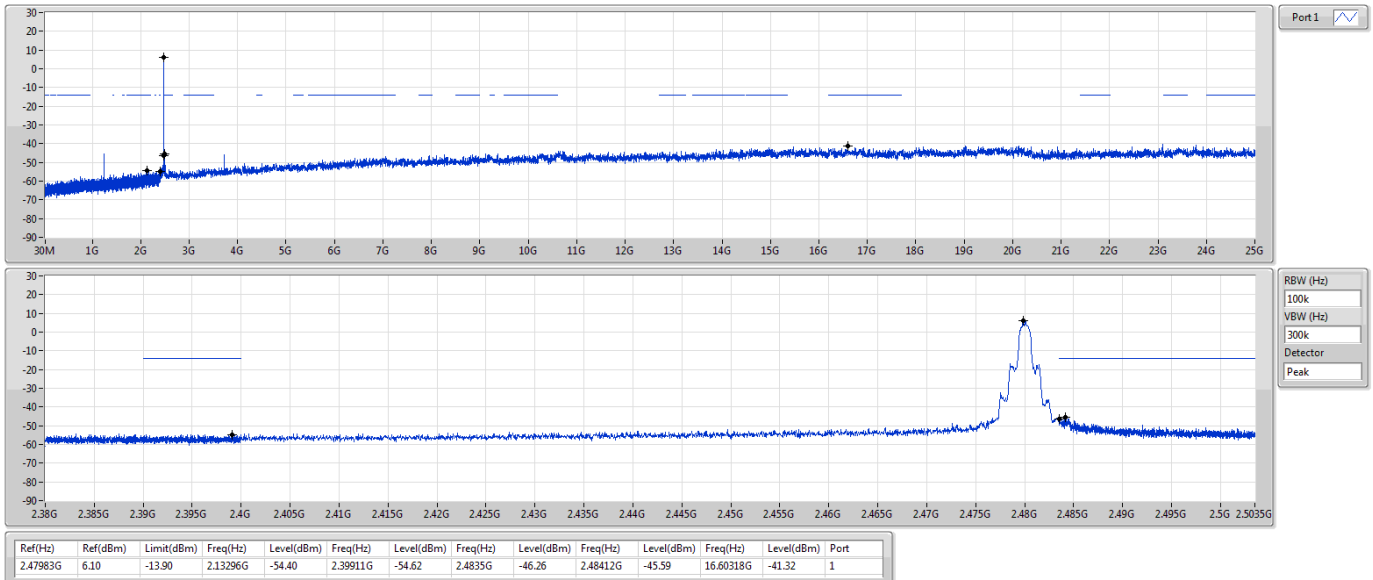
2440MHz



BT-EDR(2Mbps)

CSEndB-FS

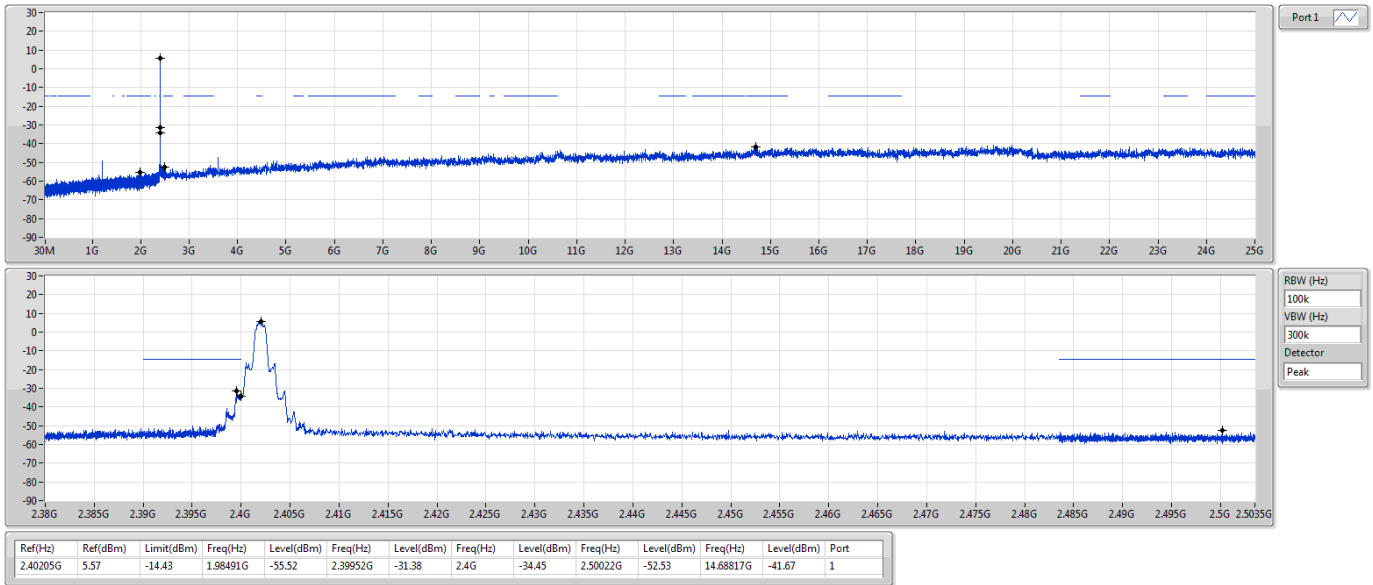
2480MHz



BT-EDR(3Mbps)

CSEndB-FS

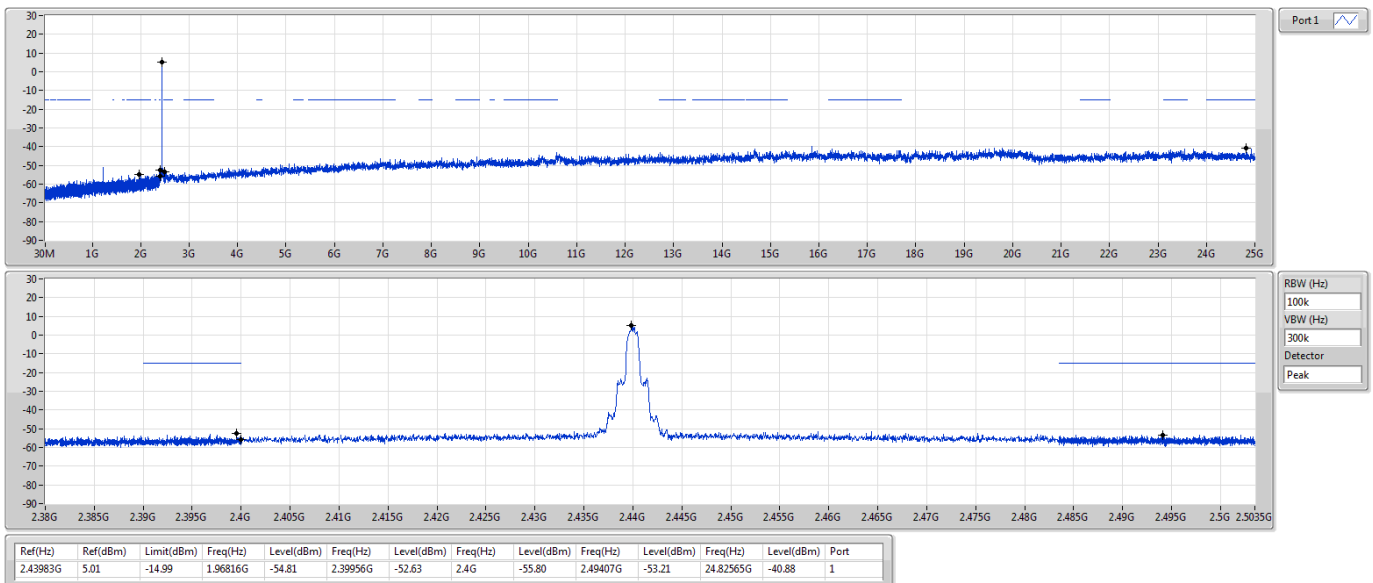
2402MHz



BT-EDR(3Mbps)

CSEndB-FS

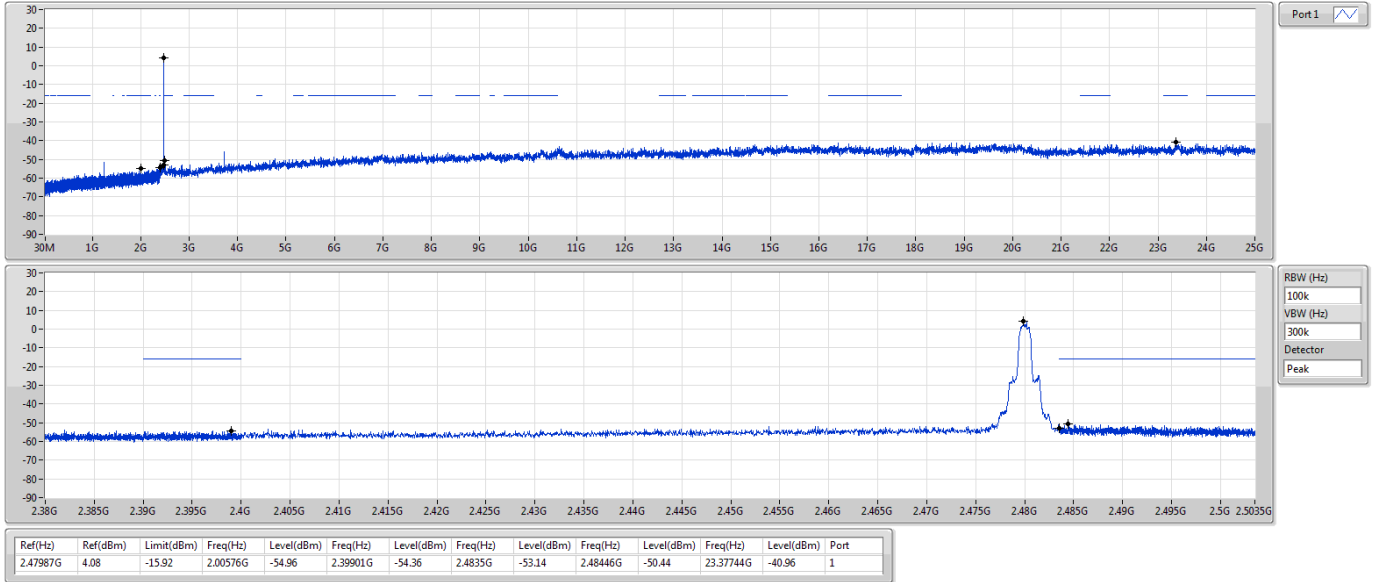
2440MHz



BT-EDR(3Mbps)

CSEndB-FS

2480MHz





Summary

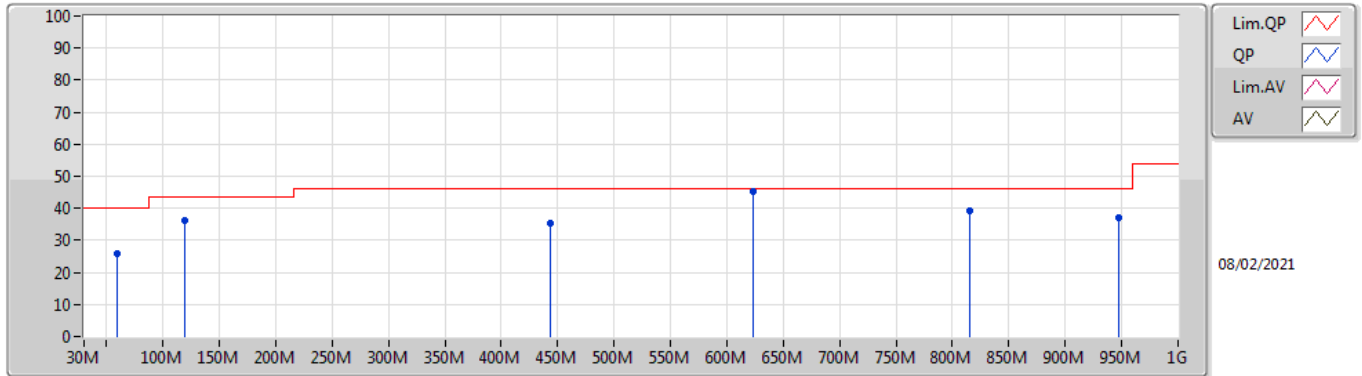
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
BT-BR(1Mbps)	Pass	QP	623.48M	45.09	46.00	-0.91	3	Vertical	235	1.79	-

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	59.1M	25.65	40.00	-14.35	3	Vertical	360	1.00	-
2440MHz	Pass	PK	119.24M	36.26	43.50	-7.24	3	Vertical	360	1.00	-
2440MHz	Pass	PK	443.22M	35.46	46.00	-10.54	3	Vertical	360	1.00	-
2440MHz	Pass	PK	815.7M	39.10	46.00	-6.90	3	Vertical	360	1.00	-
2440MHz	Pass	PK	947.62M	37.16	46.00	-8.84	3	Vertical	360	1.00	-
2440MHz	Pass	QP	623.48M	45.09	46.00	-0.91	3	Vertical	235	1.79	-
2440MHz	Pass	PK	30M	21.31	40.00	-18.69	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	167.74M	37.22	43.50	-6.28	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	336.52M	39.44	46.00	-6.56	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	815.7M	39.59	46.00	-6.41	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	947.62M	33.56	46.00	-12.44	3	Horizontal	0	1.00	-
2440MHz	Pass	QP	695.38M	44.02	46.00	-1.98	3	Horizontal	129	1.96	-

BT-BR(1Mbps)

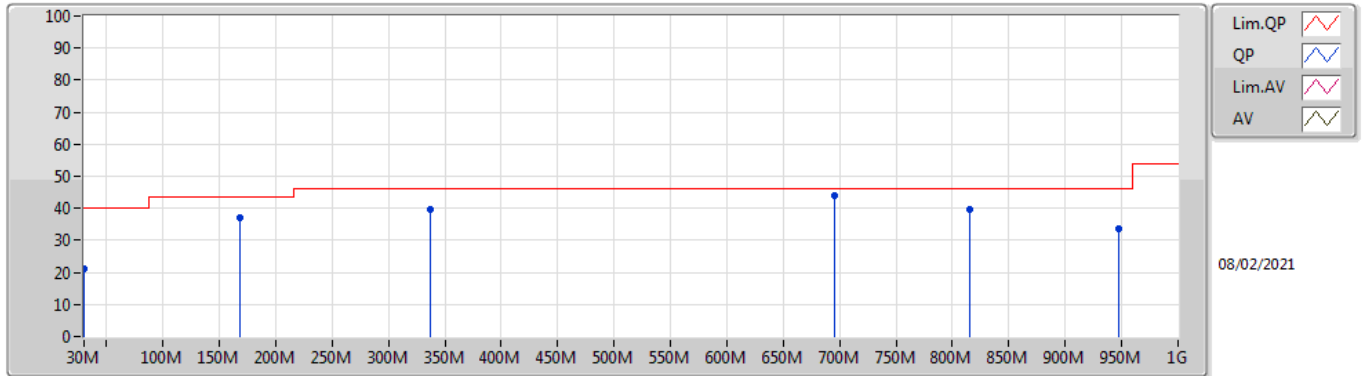
2440MHz_USB



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	59.1M	25.65	40.00	-14.35	-25.54	3	Vertical	360	1.00	-	51.19	10.85	0.60	36.99
PK	119.24M	36.26	43.50	-7.24	-19.00	3	Vertical	360	1.00	-	55.26	16.69	0.80	36.49
PK	443.22M	35.46	46.00	-10.54	-12.48	3	Vertical	360	1.00	-	47.94	22.31	1.79	36.58
PK	815.7M	39.10	46.00	-6.90	-7.72	3	Vertical	360	1.00	-	46.82	27.22	2.63	37.57
PK	947.62M	37.16	46.00	-8.84	-4.51	3	Vertical	360	1.00	-	41.67	29.96	2.90	37.37
QP	623.48M	45.09	46.00	-0.91	-9.54	3	Vertical	235	1.79	-	54.63	25.34	2.20	37.08

BT-BR(1Mbps)

2440MHz_USB



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)
PK	30M	21.31	40.00	-18.69	-13.20	3	Horizontal	0	1.00	-	34.51	23.51	0.40	37.11
PK	167.74M	37.22	43.50	-6.28	-20.25	3	Horizontal	0	1.00	-	57.47	15.05	1.04	36.34
PK	336.52M	39.44	46.00	-6.56	-15.77	3	Horizontal	0	1.00	-	55.21	19.22	1.47	36.46
PK	815.7M	39.59	46.00	-6.41	-7.72	3	Horizontal	0	1.00	-	47.31	27.22	2.63	37.57
PK	947.62M	33.56	46.00	-12.44	-4.51	3	Horizontal	0	1.00	-	38.07	29.96	2.90	37.37
QP	695.38M	44.02	46.00	-1.98	-9.17	3	Horizontal	129	1.96	-	53.19	25.69	2.38	37.24



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	4.96003G	73.59	74.00	-0.41	3	Vertical	260	2.43	-
BT-EDR(3Mbps)	Pass	PK	4.80397G	73.85	74.00	-0.15	3	Horizontal	210	1.46	-

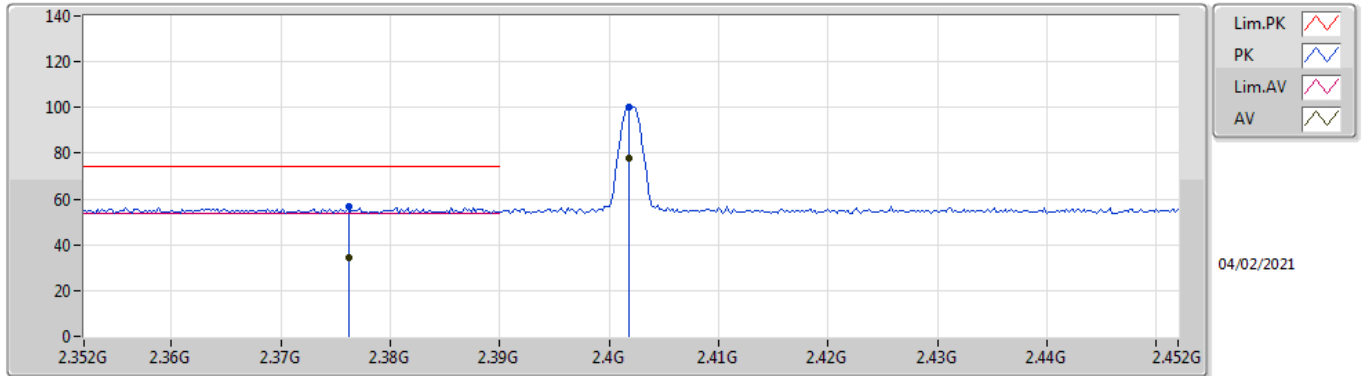
Result

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	2.3762G	34.25	54.00	-19.75	3	Vertical	202	1.34	-
2402MHz	Pass	AV	2.4018G	77.73	Inf	-Inf	3	Vertical	202	1.34	-
2402MHz	Pass	PK	2.3762G	56.75	74.00	-17.25	3	Vertical	202	1.34	-
2402MHz	Pass	PK	2.4018G	100.23	Inf	-Inf	3	Vertical	202	1.34	-
2402MHz	Pass	AV	2.3896G	34.14	54.00	-19.86	3	Horizontal	205	1.74	-
2402MHz	Pass	AV	2.4022G	75.33	Inf	-Inf	3	Horizontal	205	1.74	-
2402MHz	Pass	PK	2.3896G	56.64	74.00	-17.36	3	Horizontal	205	1.74	-
2402MHz	Pass	PK	2.4022G	97.83	Inf	-Inf	3	Horizontal	205	1.74	-
2402MHz	Pass	AV	4.80405G	49.74	54.00	-4.26	3	Vertical	265	2.45	-
2402MHz	Pass	PK	4.80405G	72.24	74.00	-1.76	3	Vertical	265	2.45	-
2402MHz	Pass	AV	4.80402G	49.23	54.00	-4.77	3	Horizontal	211	1.48	-
2402MHz	Pass	PK	4.80402G	71.73	74.00	-2.27	3	Horizontal	211	1.48	-
2440MHz	Pass	AV	2.3684G	34.16	54.00	-19.84	3	Vertical	267	1.77	-
2440MHz	Pass	AV	2.44G	76.13	Inf	-Inf	3	Vertical	267	1.77	-
2440MHz	Pass	AV	2.4996G	33.61	54.00	-20.39	3	Vertical	267	1.77	-
2440MHz	Pass	PK	2.3684G	56.66	74.00	-17.34	3	Vertical	267	1.77	-
2440MHz	Pass	PK	2.44G	98.63	Inf	-Inf	3	Vertical	267	1.77	-
2440MHz	Pass	PK	2.4996G	56.11	74.00	-17.89	3	Vertical	267	1.77	-
2440MHz	Pass	AV	2.3784G	33.54	54.00	-20.46	3	Horizontal	204	1.73	-
2440MHz	Pass	AV	2.44G	73.77	Inf	-Inf	3	Horizontal	204	1.73	-
2440MHz	Pass	AV	2.4936G	35.05	54.00	-18.95	3	Horizontal	204	1.73	-
2440MHz	Pass	PK	2.3784G	56.04	74.00	-17.96	3	Horizontal	204	1.73	-
2440MHz	Pass	PK	2.44G	96.27	Inf	-Inf	3	Horizontal	204	1.73	-
2440MHz	Pass	PK	2.4936G	57.55	74.00	-16.45	3	Horizontal	204	1.73	-
2440MHz	Pass	AV	4.88008G	50.52	54.00	-3.48	3	Vertical	248	2.46	-
2440MHz	Pass	PK	4.88008G	73.02	74.00	-0.98	3	Vertical	248	2.46	-
2440MHz	Pass	AV	4.88G	49.60	54.00	-4.40	3	Horizontal	181	1.50	-
2440MHz	Pass	PK	4.88G	72.10	74.00	-1.90	3	Horizontal	181	1.50	-
2480MHz	Pass	AV	2.4802G	73.62	Inf	-Inf	3	Vertical	266	1.74	-
2480MHz	Pass	AV	2.4906G	34.23	54.00	-19.77	3	Vertical	266	1.74	-
2480MHz	Pass	PK	2.4802G	96.12	Inf	-Inf	3	Vertical	266	1.74	-
2480MHz	Pass	PK	2.4906G	56.73	74.00	-17.27	3	Vertical	266	1.74	-
2480MHz	Pass	AV	2.4798G	73.04	Inf	-Inf	3	Horizontal	203	2.13	-
2480MHz	Pass	AV	2.4862G	34.07	54.00	-19.93	3	Horizontal	203	2.13	-
2480MHz	Pass	PK	2.4798G	95.54	Inf	-Inf	3	Horizontal	203	2.13	-
2480MHz	Pass	PK	2.4862G	56.57	74.00	-17.43	3	Horizontal	203	2.13	-
2480MHz	Pass	AV	4.96003G	51.09	54.00	-2.91	3	Vertical	260	2.43	-
2480MHz	Pass	PK	4.96003G	73.59	74.00	-0.41	3	Vertical	260	2.43	-
2480MHz	Pass	AV	4.96002G	48.67	54.00	-5.33	3	Horizontal	183	2.78	-
2480MHz	Pass	PK	4.96002G	71.17	74.00	-2.83	3	Horizontal	183	2.78	-
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3814G	34.15	54.00	-19.85	3	Vertical	201	1.32	-
2402MHz	Pass	AV	2.402G	78.76	Inf	-Inf	3	Vertical	201	1.32	-
2402MHz	Pass	PK	2.3814G	56.65	74.00	-17.35	3	Vertical	201	1.32	-
2402MHz	Pass	PK	2.402G	101.26	Inf	-Inf	3	Vertical	201	1.32	-
2402MHz	Pass	AV	2.3658G	33.96	54.00	-20.04	3	Horizontal	202	1.26	-
2402MHz	Pass	AV	2.402G	75.40	Inf	-Inf	3	Horizontal	202	1.26	-
2402MHz	Pass	PK	2.3658G	56.46	74.00	-17.54	3	Horizontal	202	1.26	-
2402MHz	Pass	PK	2.402G	97.90	Inf	-Inf	3	Horizontal	202	1.26	-
2402MHz	Pass	AV	4.80366G	51.20	54.00	-2.80	3	Vertical	266	2.42	-
2402MHz	Pass	PK	4.80398G	73.71	74.00	-0.29	3	Vertical	266	2.42	-
2402MHz	Pass	AV	4.80397G	51.35	54.00	-2.65	3	Horizontal	210	1.46	-
2402MHz	Pass	PK	4.80397G	73.85	74.00	-0.15	3	Horizontal	210	1.46	-
2440MHz	Pass	AV	2.3796G	33.74	54.00	-20.26	3	Vertical	264	1.80	-
2440MHz	Pass	AV	2.44G	74.87	Inf	-Inf	3	Vertical	264	1.80	-
2440MHz	Pass	AV	2.4868G	33.92	54.00	-20.08	3	Vertical	264	1.80	-
2440MHz	Pass	PK	2.3796G	56.24	74.00	-17.76	3	Vertical	264	1.80	-
2440MHz	Pass	PK	2.44G	97.37	Inf	-Inf	3	Vertical	264	1.80	-
2440MHz	Pass	PK	2.4868G	56.42	74.00	-17.58	3	Vertical	264	1.80	-
2440MHz	Pass	AV	2.3652G	34.68	54.00	-19.32	3	Horizontal	205	1.70	-

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	72.69	Inf	-Inf	3	Horizontal	205	1.70	-
2440MHz	Pass	AV	2.4835G	33.54	54.00	-20.46	3	Horizontal	205	1.70	-
2440MHz	Pass	PK	2.3652G	57.18	74.00	-16.82	3	Horizontal	205	1.70	-
2440MHz	Pass	PK	2.44G	95.19	Inf	-Inf	3	Horizontal	205	1.70	-
2440MHz	Pass	PK	2.4835G	56.04	74.00	-17.96	3	Horizontal	205	1.70	-
2440MHz	Pass	AV	4.87991G	50.46	54.00	-3.54	3	Vertical	260	2.48	-
2440MHz	Pass	PK	4.87991G	72.96	74.00	-1.04	3	Vertical	260	2.48	-
2440MHz	Pass	AV	4.87985G	47.08	54.00	-6.92	3	Horizontal	184	1.76	-
2440MHz	Pass	PK	4.87985G	69.58	74.00	-4.42	3	Horizontal	184	1.76	-
2480MHz	Pass	AV	2.48G	73.57	Inf	-Inf	3	Vertical	266	1.73	-
2480MHz	Pass	AV	2.4922G	34.62	54.00	-19.38	3	Vertical	266	1.73	-
2480MHz	Pass	PK	2.48G	96.07	Inf	-Inf	3	Vertical	266	1.73	-
2480MHz	Pass	PK	2.4922G	57.12	74.00	-16.88	3	Vertical	266	1.73	-
2480MHz	Pass	AV	2.48G	73.04	Inf	-Inf	3	Horizontal	200	2.13	-
2480MHz	Pass	AV	2.496G	34.57	54.00	-19.43	3	Horizontal	200	2.13	-
2480MHz	Pass	PK	2.48G	95.54	Inf	-Inf	3	Horizontal	200	2.13	-
2480MHz	Pass	PK	2.496G	57.07	74.00	-16.93	3	Horizontal	200	2.13	-
2480MHz	Pass	AV	4.95986G	50.63	54.00	-3.37	3	Vertical	259	2.44	-
2480MHz	Pass	PK	4.95986G	73.13	74.00	-0.87	3	Vertical	259	2.44	-
2480MHz	Pass	AV	4.95988G	47.60	54.00	-6.40	3	Horizontal	160	2.91	-
2480MHz	Pass	PK	4.95988G	70.10	74.00	-3.90	3	Horizontal	160	2.91	-

BT-BR(1Mbps)

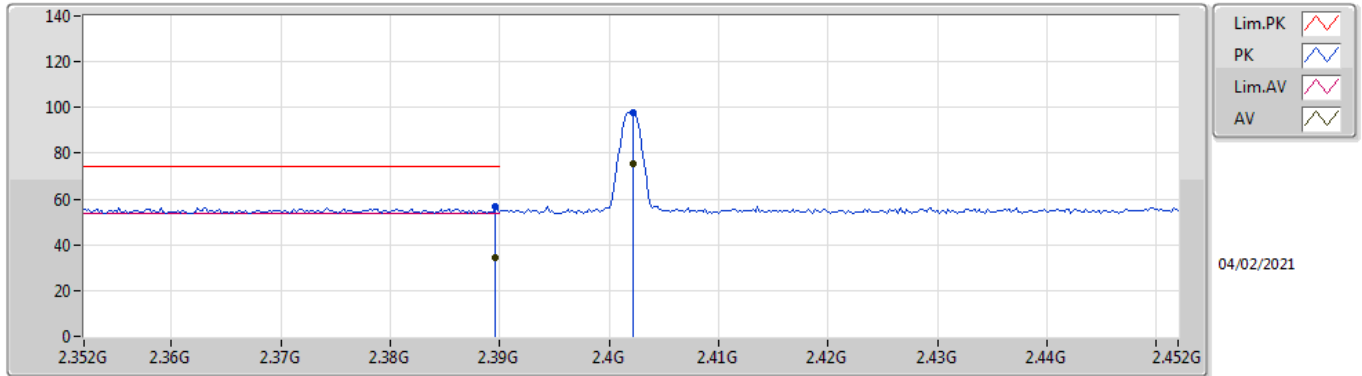
2402MHz_TX



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	2.3762G	34.25	54.00	-19.75	31.56	3	Vertical	202	1.34	-	2.69	27.70	3.86	-
AV	2.4018G	77.73	Inf	-Inf	31.50	3	Vertical	202	1.34	-	46.23	27.60	3.90	-
PK	2.3762G	56.75	74.00	-17.25	31.56	3	Vertical	202	1.34	-	25.19	27.70	3.86	-
PK	2.4018G	100.23	Inf	-Inf	31.50	3	Vertical	202	1.34	-	68.73	27.60	3.90	-

BT-BR(1Mbps)

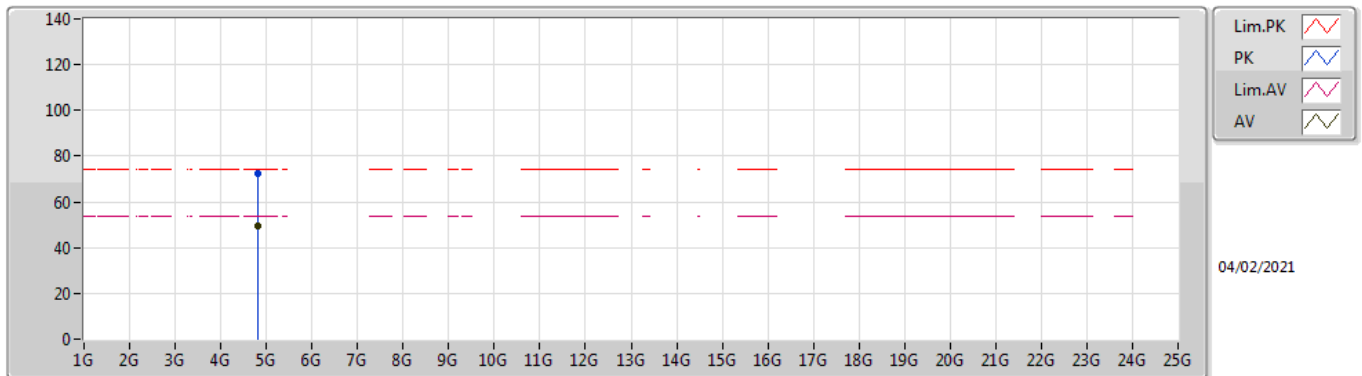
2402MHz_TX



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	2.3896G	34.14	54.00	-19.86	31.52	3	Horizontal	205	1.74	-	2.62	27.64	3.88	-
AV	2.4022G	75.33	Inf	-Inf	31.50	3	Horizontal	205	1.74	-	43.83	27.60	3.90	-
PK	2.3896G	56.64	74.00	-17.36	31.52	3	Horizontal	205	1.74	-	25.12	27.64	3.88	-
PK	2.4022G	97.83	Inf	-Inf	31.50	3	Horizontal	205	1.74	-	66.33	27.60	3.90	-

BT-BR(1Mbps)

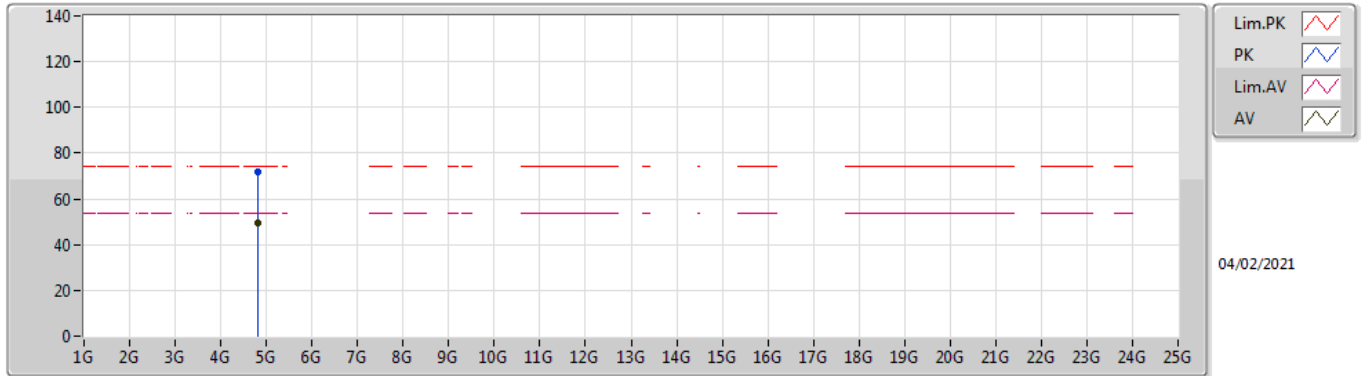
2402MHz_TX



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	4.80405G	49.74	54.00	-4.26	1.49	3	Vertical	265	2.45	-	48.25	31.12	5.30	34.93
PK	4.80405G	72.24	74.00	-1.76	1.49	3	Vertical	265	2.45	-	70.75	31.12	5.30	34.93

BT-BR(1Mbps)

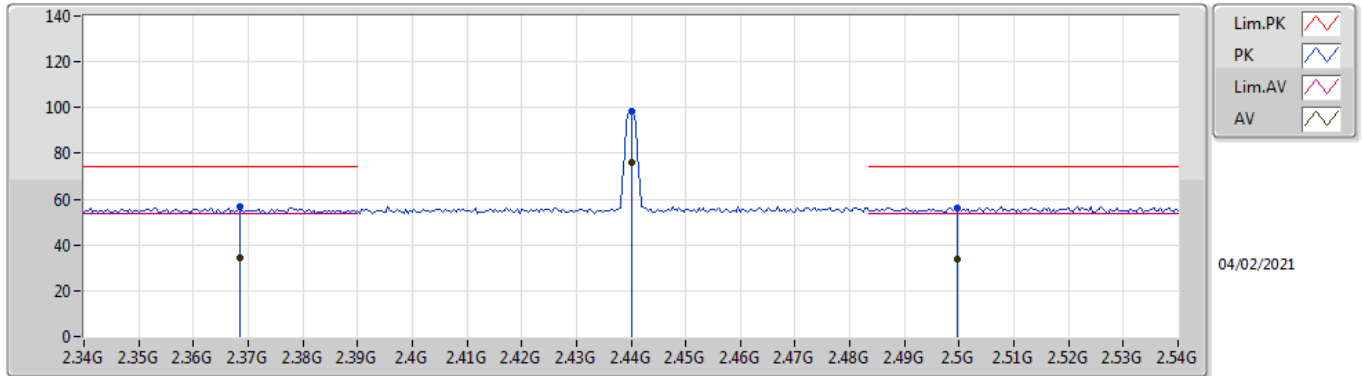
2402MHz_TX



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	4.80402G	49.23	54.00	-4.77	1.49	3	Horizontal	211	1.48	-	47.74	31.12	5.30	34.93
PK	4.80402G	71.73	74.00	-2.27	1.49	3	Horizontal	211	1.48	-	70.24	31.12	5.30	34.93

BT-BR(1Mbps)

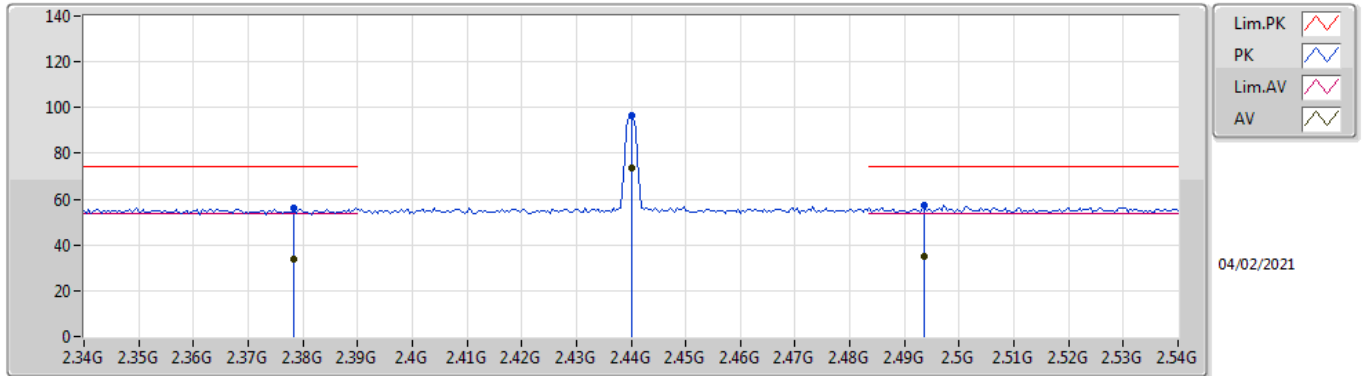
2440MHz_TX



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	2.3684G	34.16	54.00	-19.84	31.58	3	Vertical	267	1.77	-	2.58	27.73	3.85	-
AV	2.44G	76.13	Inf	-Inf	31.56	3	Vertical	267	1.77	-	44.57	27.60	3.96	-
AV	2.4996G	33.61	54.00	-20.39	31.65	3	Vertical	267	1.77	-	1.96	27.60	4.05	-
PK	2.3684G	56.66	74.00	-17.34	31.58	3	Vertical	267	1.77	-	25.08	27.73	3.85	-
PK	2.44G	98.63	Inf	-Inf	31.56	3	Vertical	267	1.77	-	67.07	27.60	3.96	-
PK	2.4996G	56.11	74.00	-17.89	31.65	3	Vertical	267	1.77	-	24.46	27.60	4.05	-

BT-BR(1Mbps)

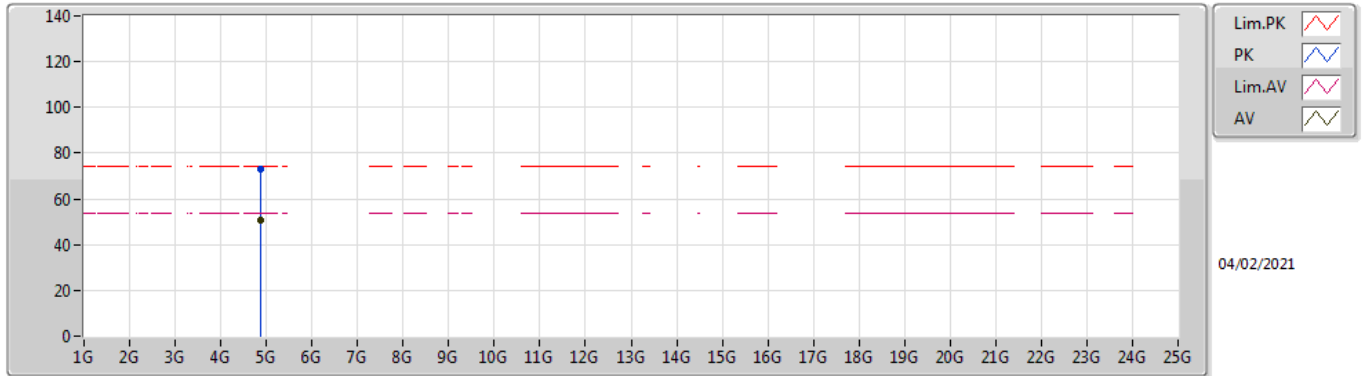
2440MHz_TX



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	2.3784G	33.54	54.00	-20.46	31.56	3	Horizontal	204	1.73	-	1.98	27.69	3.87	-
AV	2.44G	73.77	Inf	-Inf	31.56	3	Horizontal	204	1.73	-	42.21	27.60	3.96	-
AV	2.4936G	35.05	54.00	-18.95	31.64	3	Horizontal	204	1.73	-	3.41	27.60	4.04	-
PK	2.3784G	56.04	74.00	-17.96	31.56	3	Horizontal	204	1.73	-	24.48	27.69	3.87	-
PK	2.44G	96.27	Inf	-Inf	31.56	3	Horizontal	204	1.73	-	64.71	27.60	3.96	-
PK	2.4936G	57.55	74.00	-16.45	31.64	3	Horizontal	204	1.73	-	25.91	27.60	4.04	-

BT-BR(1Mbps)

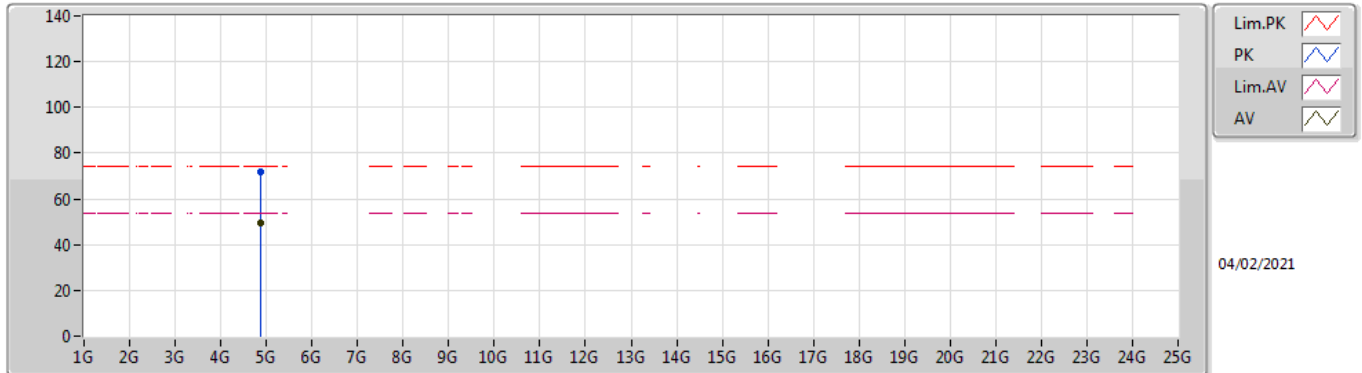
2440MHz_TX



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	4.88008G	50.52	54.00	-3.48	1.65	3	Vertical	248	2.46	-	48.87	31.24	5.34	34.93
PK	4.88008G	73.02	74.00	-0.98	1.65	3	Vertical	248	2.46	-	71.37	31.24	5.34	34.93

BT-BR(1Mbps)

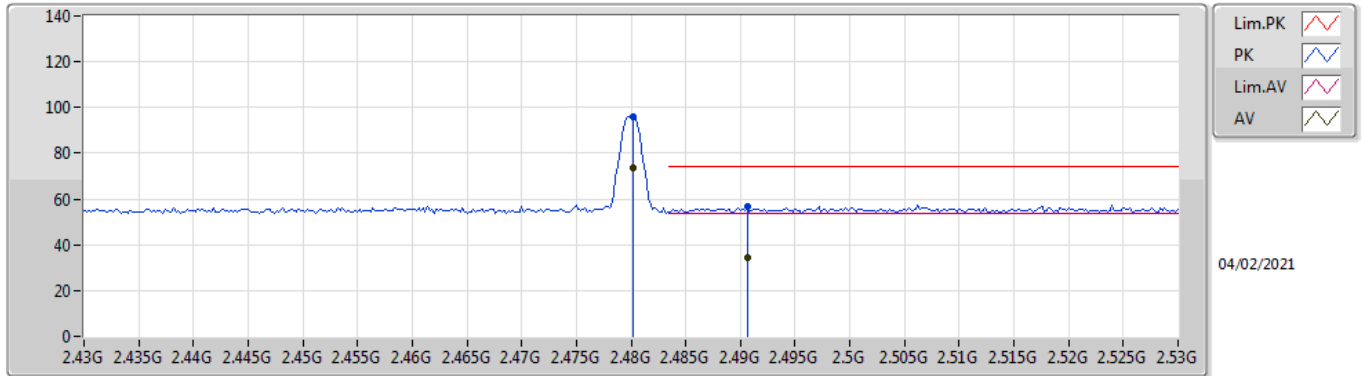
2440MHz_TX



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	4.88G	49.60	54.00	-4.40	1.65	3	Horizontal	181	1.50	-	47.95	31.24	5.34	34.93
PK	4.88G	72.10	74.00	-1.90	1.65	3	Horizontal	181	1.50	-	70.45	31.24	5.34	34.93

BT-BR(1Mbps)

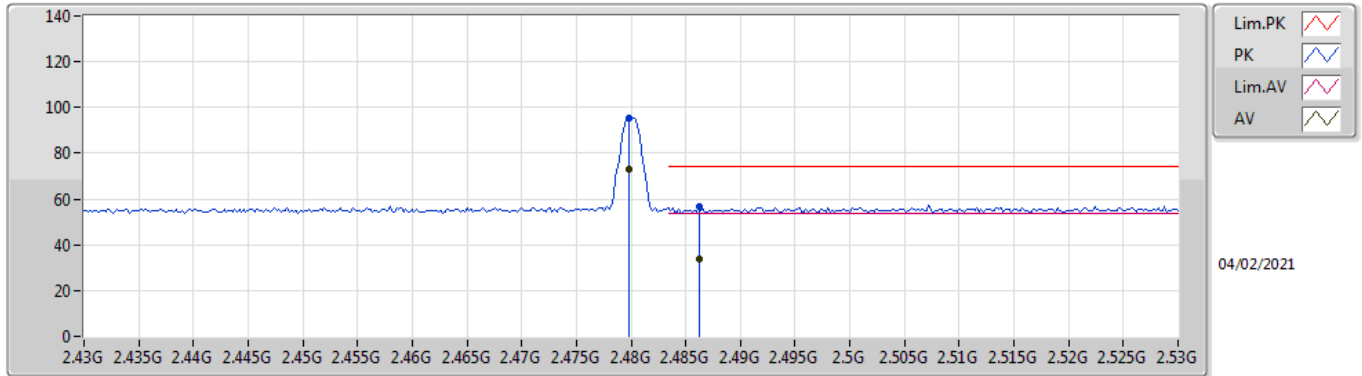
2480MHz_TX



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	73.62	Inf	-Inf	31.62	3	Vertical	266	1.74	-	42.00	27.60	4.02	-
AV	2.4906G	34.23	54.00	-19.77	31.64	3	Vertical	266	1.74	-	2.59	27.60	4.04	-
PK	2.4802G	96.12	Inf	-Inf	31.62	3	Vertical	266	1.74	-	64.50	27.60	4.02	-
PK	2.4906G	56.73	74.00	-17.27	31.64	3	Vertical	266	1.74	-	25.09	27.60	4.04	-

BT-BR(1Mbps)

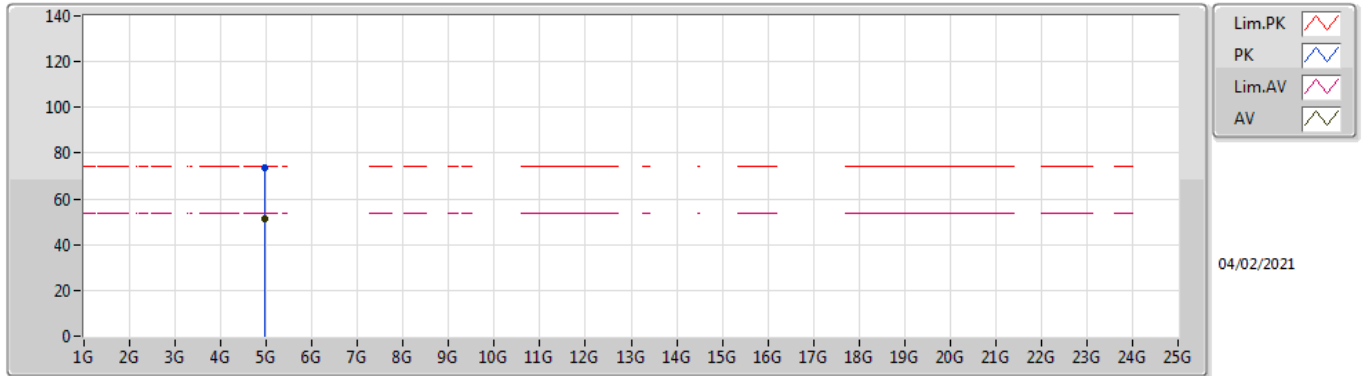
2480MHz_TX



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	2.4798G	73.04	Inf	-Inf	31.62	3	Horizontal	203	2.13	-	41.42	27.60	4.02	-
AV	2.4862G	34.07	54.00	-19.93	31.63	3	Horizontal	203	2.13	-	2.44	27.60	4.03	-
PK	2.4798G	95.54	Inf	-Inf	31.62	3	Horizontal	203	2.13	-	63.92	27.60	4.02	-
PK	2.4862G	56.57	74.00	-17.43	31.63	3	Horizontal	203	2.13	-	24.94	27.60	4.03	-

BT-BR(1Mbps)

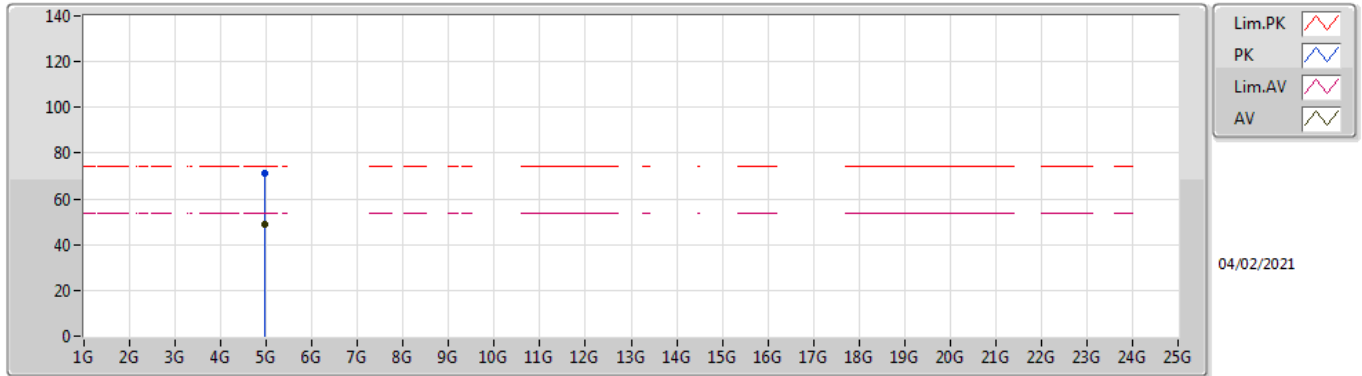
2480MHz_TX



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	4.96003G	51.09	54.00	-2.91	1.86	3	Vertical	260	2.43	-	49.23	31.42	5.38	34.94
PK	4.96003G	73.59	74.00	-0.41	1.86	3	Vertical	260	2.43	-	71.73	31.42	5.38	34.94

BT-BR(1Mbps)

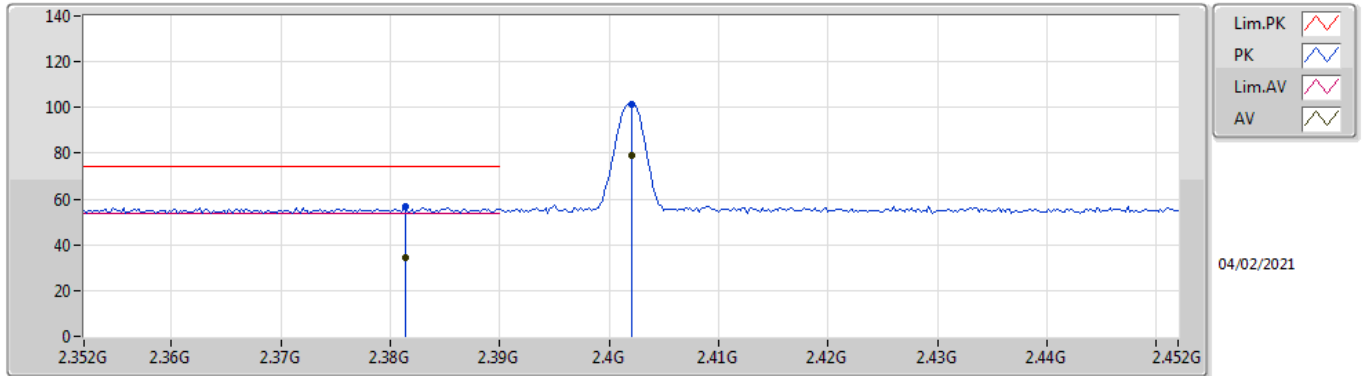
2480MHz_TX



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	4.96002G	48.67	54.00	-5.33	1.86	3	Horizontal	183	2.78	-	46.81	31.42	5.38	34.94
PK	4.96002G	71.17	74.00	-2.83	1.86	3	Horizontal	183	2.78	-	69.31	31.42	5.38	34.94

BT-EDR(3Mbps)

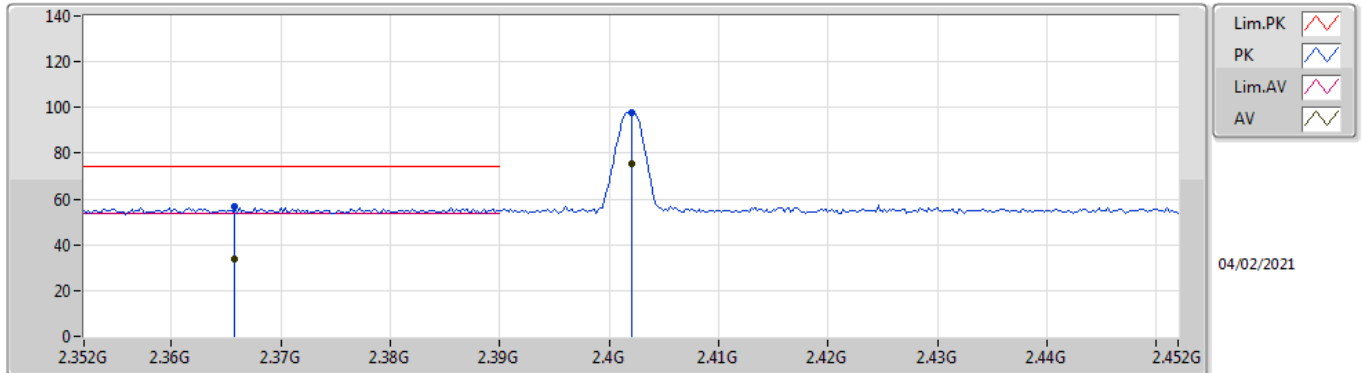
2402MHz_TX



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	2.3814G	34.15	54.00	-19.85	31.54	3	Vertical	201	1.32	-	2.61	27.67	3.87	-
AV	2.402G	78.76	Inf	-Inf	31.50	3	Vertical	201	1.32	-	47.26	27.60	3.90	-
PK	2.3814G	56.65	74.00	-17.35	31.54	3	Vertical	201	1.32	-	25.11	27.67	3.87	-
PK	2.402G	101.26	Inf	-Inf	31.50	3	Vertical	201	1.32	-	69.76	27.60	3.90	-

BT-EDR(3Mbps)

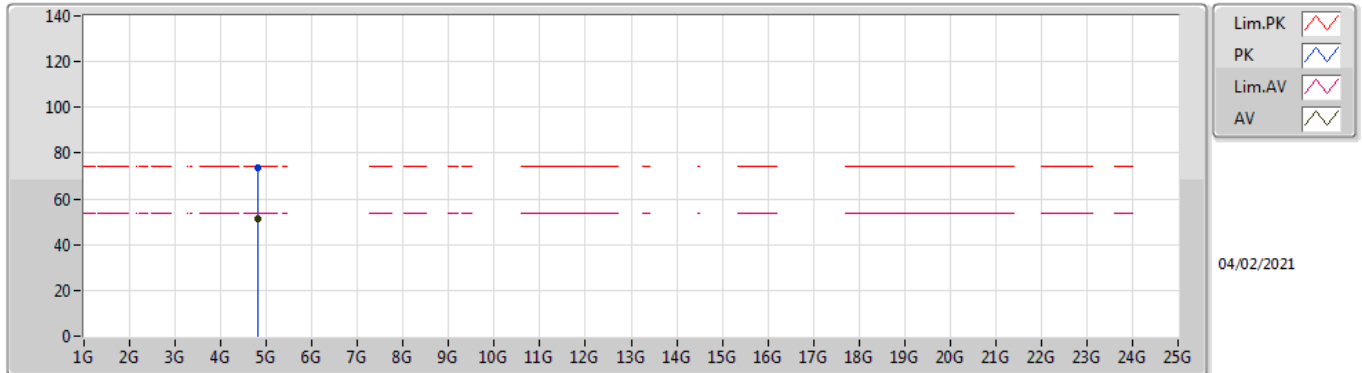
2402MHz_TX



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	2.3658G	33.96	54.00	-20.04	31.59	3	Horizontal	202	1.26	-	2.37	27.74	3.85	-
AV	2.402G	75.40	Inf	-Inf	31.50	3	Horizontal	202	1.26	-	43.90	27.60	3.90	-
PK	2.3658G	56.46	74.00	-17.54	31.59	3	Horizontal	202	1.26	-	24.87	27.74	3.85	-
PK	2.402G	97.90	Inf	-Inf	31.50	3	Horizontal	202	1.26	-	66.40	27.60	3.90	-

BT-EDR(3Mbps)

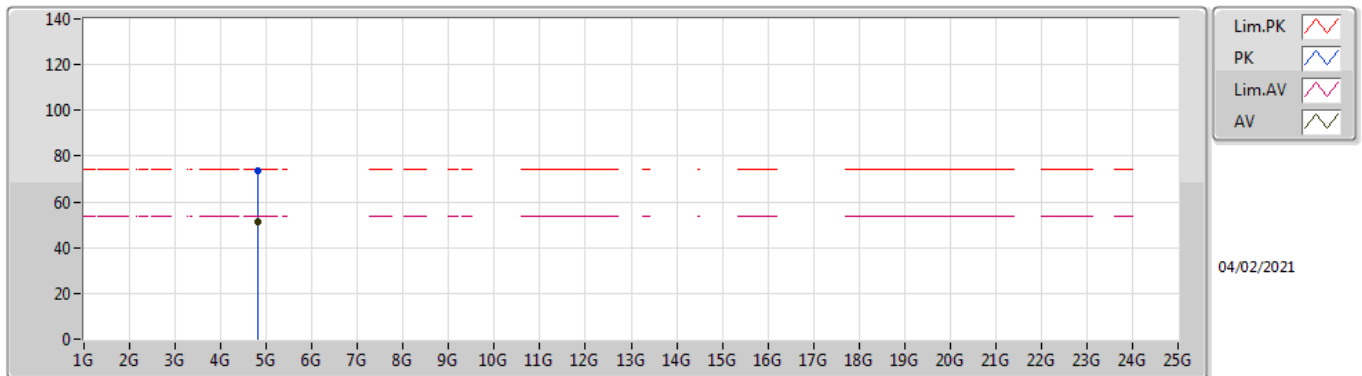
2402MHz_TX



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	4.80366G	51.20	54.00	-2.80	1.48	3	Vertical	266	2.42	-	49.72	31.11	5.30	34.93
PK	4.80398G	73.71	74.00	-0.29	1.49	3	Vertical	266	2.42	-	72.22	31.12	5.30	34.93

BT-EDR(3Mbps)

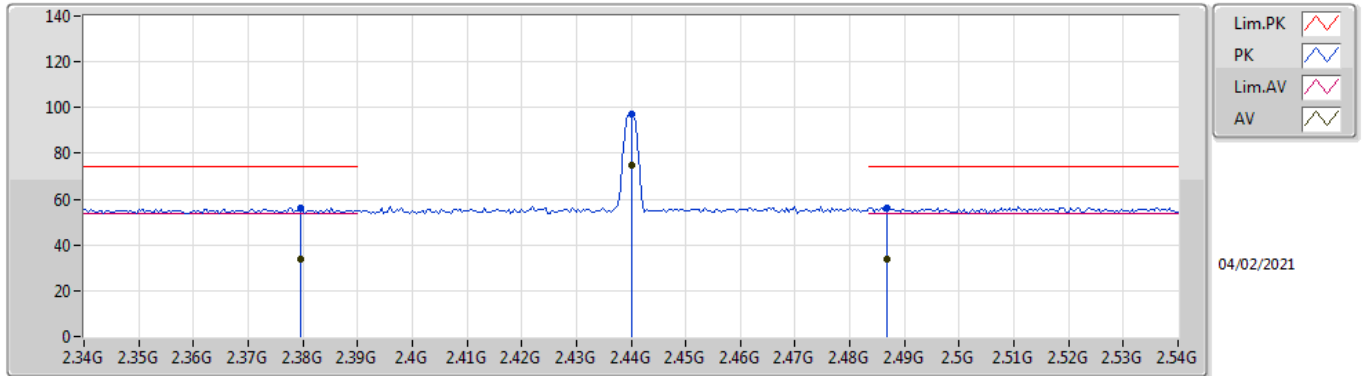
2402MHz_TX



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	4.80397G	51.35	54.00	-2.65	1.49	3	Horizontal	210	1.46	-	49.86	31.12	5.30	34.93
PK	4.80397G	73.85	74.00	-0.15	1.49	3	Horizontal	210	1.46	-	72.36	31.12	5.30	34.93

BT-EDR(3Mbps)

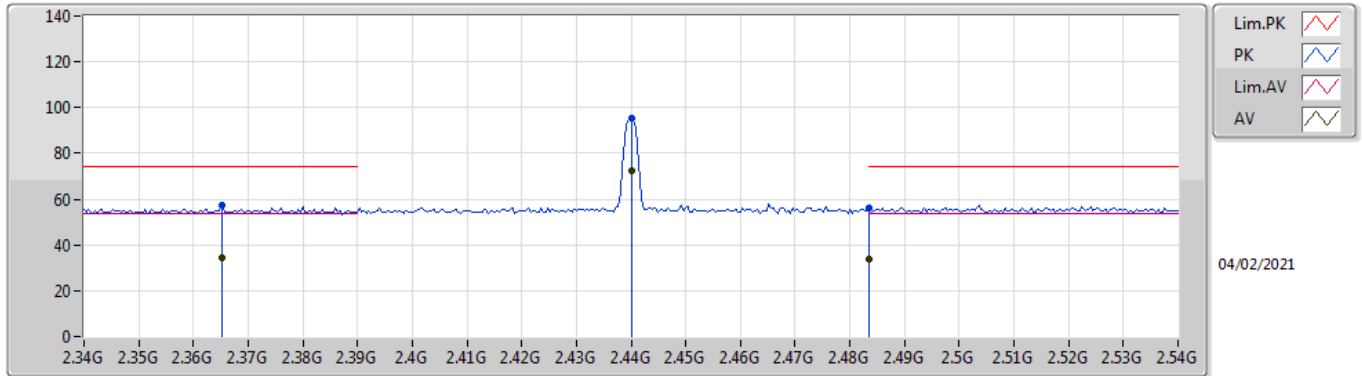
2440MHz_TX



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	2.3796G	33.74	54.00	-20.26	31.55	3	Vertical	264	1.80	-	2.19	27.68	3.87	-
AV	2.44G	74.87	Inf	-Inf	31.56	3	Vertical	264	1.80	-	43.31	27.60	3.96	-
AV	2.4868G	33.92	54.00	-20.08	31.63	3	Vertical	264	1.80	-	2.29	27.60	4.03	-
PK	2.3796G	56.24	74.00	-17.76	31.55	3	Vertical	264	1.80	-	24.69	27.68	3.87	-
PK	2.44G	97.37	Inf	-Inf	31.56	3	Vertical	264	1.80	-	65.81	27.60	3.96	-
PK	2.4868G	56.42	74.00	-17.58	31.63	3	Vertical	264	1.80	-	24.79	27.60	4.03	-

BT-EDR(3Mbps)

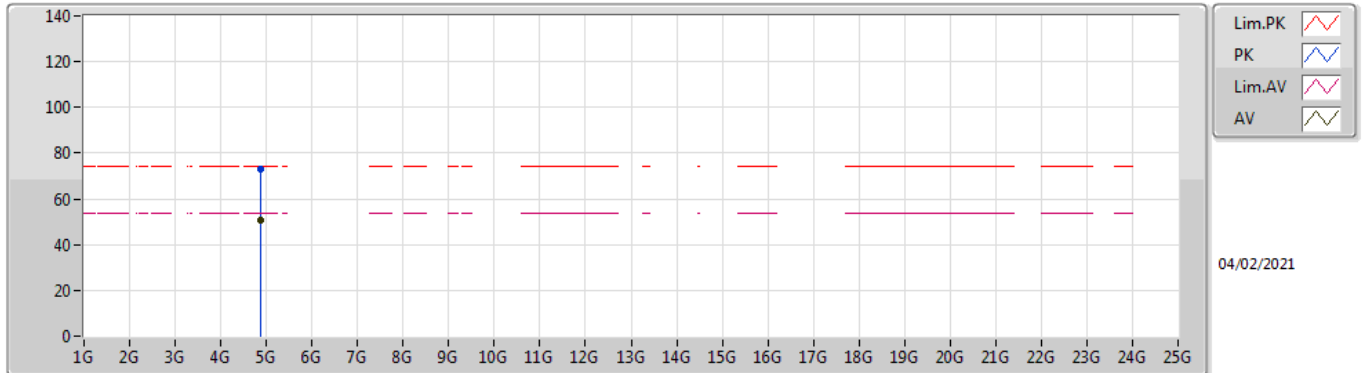
2440MHz_TX



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	2.3652G	34.68	54.00	-19.32	31.59	3	Horizontal	205	1.70	-	3.09	27.74	3.85	-
AV	2.44G	72.69	Inf	-Inf	31.56	3	Horizontal	205	1.70	-	41.13	27.60	3.96	-
AV	2.4835G	33.54	54.00	-20.46	31.63	3	Horizontal	205	1.70	-	1.91	27.60	4.03	-
PK	2.3652G	57.18	74.00	-16.82	31.59	3	Horizontal	205	1.70	-	25.59	27.74	3.85	-
PK	2.44G	95.19	Inf	-Inf	31.56	3	Horizontal	205	1.70	-	63.63	27.60	3.96	-
PK	2.4835G	56.04	74.00	-17.96	31.63	3	Horizontal	205	1.70	-	24.41	27.60	4.03	-

BT-EDR(3Mbps)

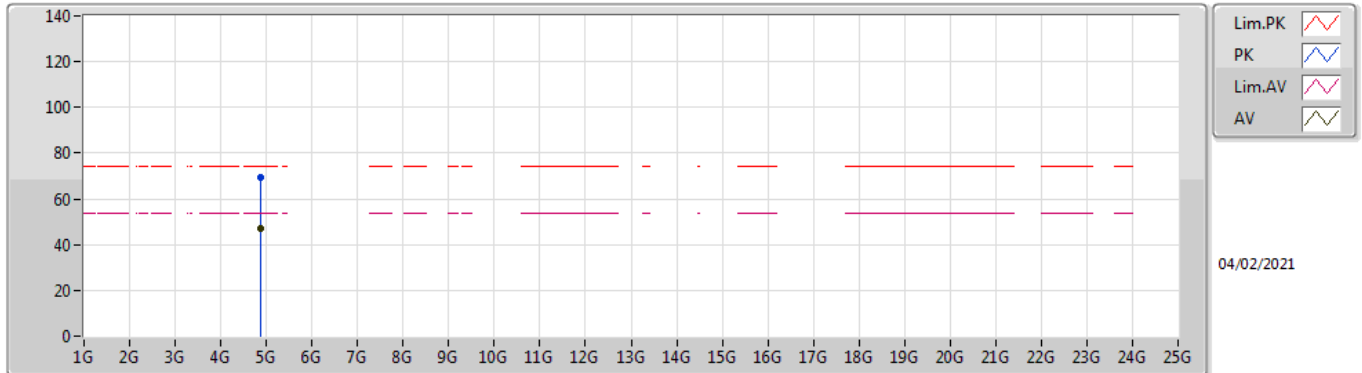
2440MHz_TX



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	4.87991G	50.46	54.00	-3.54	1.65	3	Vertical	260	2.48	-	48.81	31.24	5.34	34.93
PK	4.87991G	72.96	74.00	-1.04	1.65	3	Vertical	260	2.48	-	71.31	31.24	5.34	34.93

BT-EDR(3Mbps)

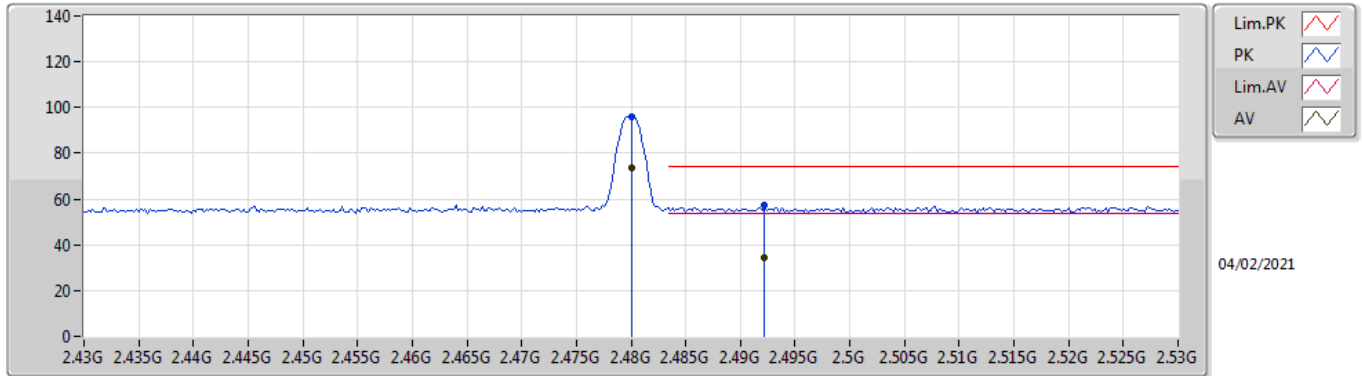
2440MHz_TX



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	4.87985G	47.08	54.00	-6.92	1.65	3	Horizontal	184	1.76	-	45.43	31.24	5.34	34.93
PK	4.87985G	69.58	74.00	-4.42	1.65	3	Horizontal	184	1.76	-	67.93	31.24	5.34	34.93

BT-EDR(3Mbps)

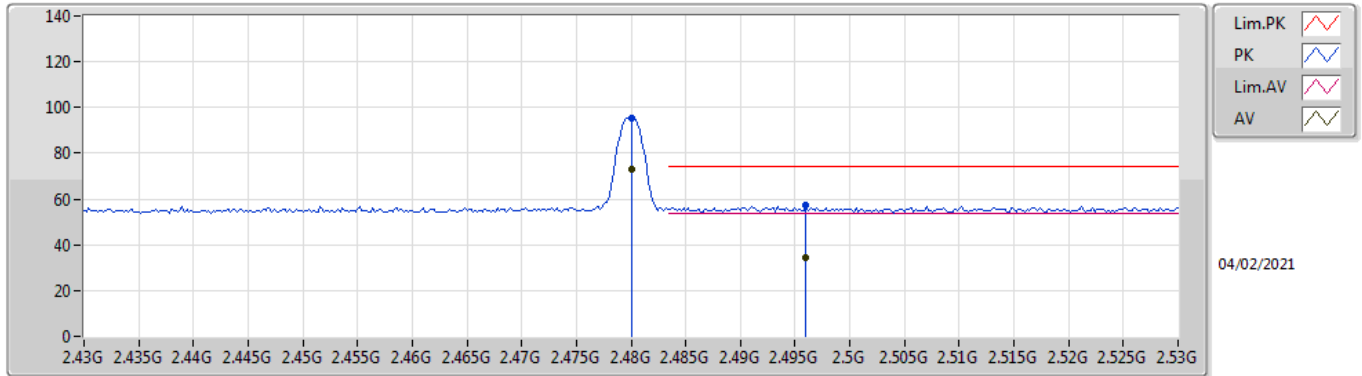
2480MHz_TX



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	2.48G	73.57	Inf	-Inf	31.62	3	Vertical	266	1.73	-	41.95	27.60	4.02	-
AV	2.4922G	34.62	54.00	-19.38	31.64	3	Vertical	266	1.73	-	2.98	27.60	4.04	-
PK	2.48G	96.07	Inf	-Inf	31.62	3	Vertical	266	1.73	-	64.45	27.60	4.02	-
PK	2.4922G	57.12	74.00	-16.88	31.64	3	Vertical	266	1.73	-	25.48	27.60	4.04	-

BT-EDR(3Mbps)

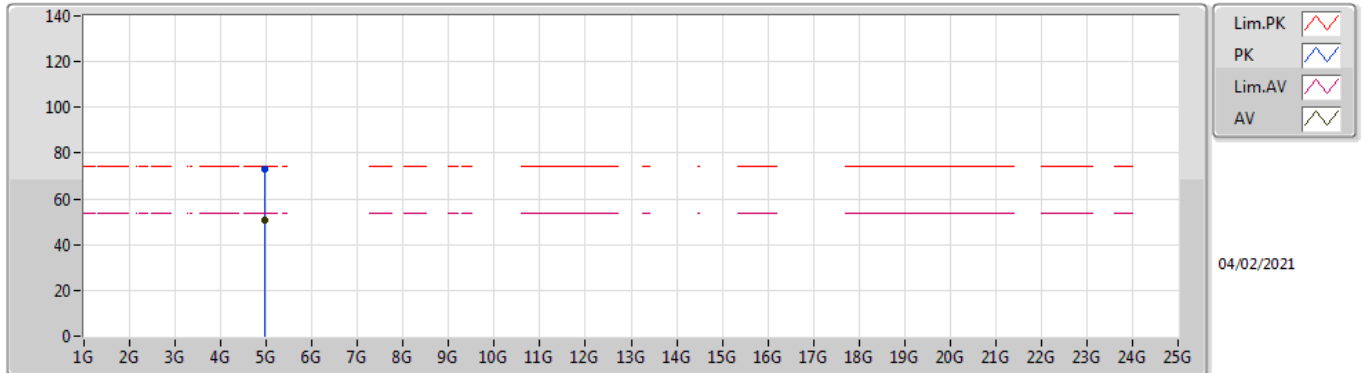
2480MHz_TX



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	2.48G	73.04	Inf	-Inf	31.62	3	Horizontal	200	2.13	-	41.42	27.60	4.02	-
AV	2.496G	34.57	54.00	-19.43	31.64	3	Horizontal	200	2.13	-	2.93	27.60	4.04	-
PK	2.48G	95.54	Inf	-Inf	31.62	3	Horizontal	200	2.13	-	63.92	27.60	4.02	-
PK	2.496G	57.07	74.00	-16.93	31.64	3	Horizontal	200	2.13	-	25.43	27.60	4.04	-

BT-EDR(3Mbps)

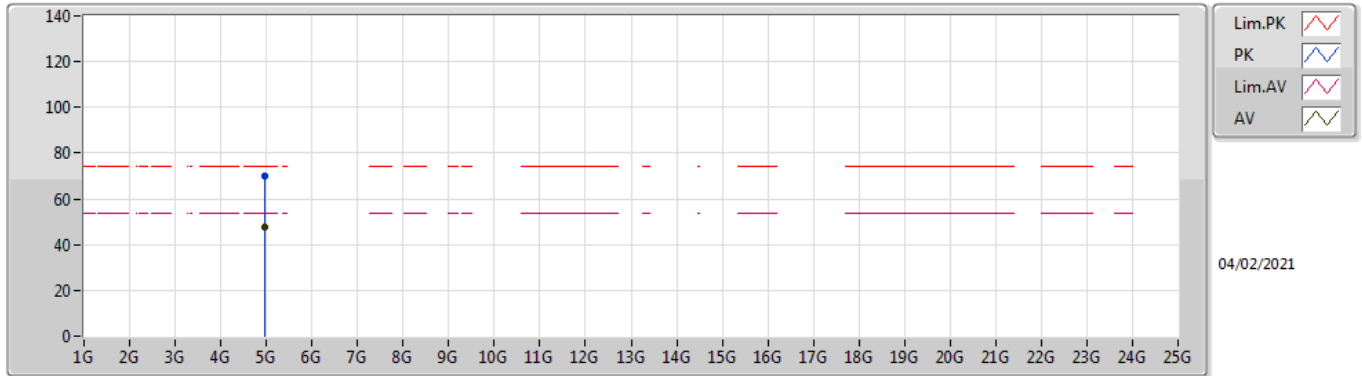
2480MHz_TX



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	4.95986G	50.63	54.00	-3.37	1.86	3	Vertical	259	2.44	-	48.77	31.42	5.38	34.94
PK	4.95986G	73.13	74.00	-0.87	1.86	3	Vertical	259	2.44	-	71.27	31.42	5.38	34.94

BT-EDR(3Mbps)

2480MHz_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	4.95988G	47.60	54.00	-6.40	1.86	3	Horizontal	160	2.91	-	45.74	31.42	5.38	34.94
PK	4.95988G	70.10	74.00	-3.90	1.86	3	Horizontal	160	2.91	-	68.24	31.42	5.38	34.94



Summary

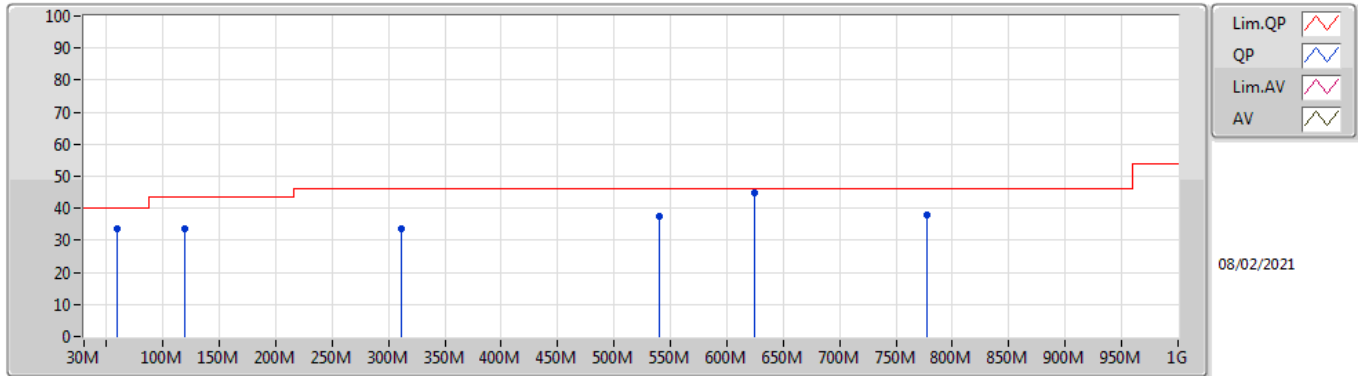
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
BT-BR(1Mbps)	Pass	QP	624.05M	44.76	46.00	-1.24	3	Vertical	144	1.00	-

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	59.1M	33.65	40.00	-6.35	3	Vertical	144	1.00	-
2440MHz	Pass	PK	119.24M	33.82	43.50	-9.68	3	Vertical	360	1.00	-
2440MHz	Pass	PK	311.3M	33.83	46.00	-12.17	3	Vertical	360	1.00	-
2440MHz	Pass	PK	540.22M	37.56	46.00	-8.44	3	Vertical	360	1.00	-
2440MHz	Pass	PK	776.9M	37.83	46.00	-8.17	3	Vertical	360	1.00	-
2440MHz	Pass	QP	624.05M	44.76	46.00	-1.24	3	Vertical	144	1.00	-
2440MHz	Pass	PK	30M	30.57	40.00	-9.43	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	167.74M	33.02	43.50	-10.48	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	311.3M	39.63	46.00	-6.37	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	960M	35.49	46.00	-10.51	3	Horizontal	0	1.00	-
2440MHz	Pass	QP	840.74M	42.42	46.00	-3.58	3	Horizontal	92	1.36	-
2440MHz	Pass	QP	672.62M	42.06	46.00	-3.94	3	Horizontal	145	1.55	-

BT-BR(1Mbps)RX

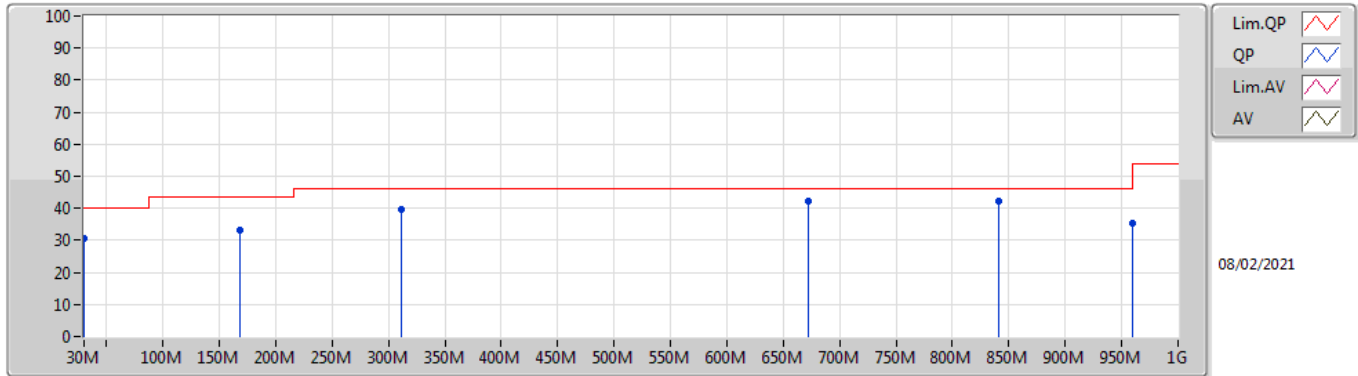
2440MHz_USB



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	59.1M	33.65	40.00	-6.35	-25.54	3	Vertical	144	1.00	-	59.19	10.85	0.60	36.99
PK	119.24M	33.82	43.50	-9.68	-19.00	3	Vertical	360	1.00	-	52.82	16.69	0.80	36.49
PK	311.3M	33.83	46.00	-12.17	-16.48	3	Vertical	360	1.00	-	50.31	18.48	1.42	36.38
PK	540.22M	37.56	46.00	-8.44	-11.75	3	Vertical	360	1.00	-	49.31	23.34	1.98	37.07
PK	776.9M	37.83	46.00	-8.17	-7.46	3	Vertical	360	1.00	-	45.29	27.36	2.55	37.37
QP	624.05M	44.76	46.00	-1.24	-9.52	3	Vertical	144	1.00	-	54.28	25.36	2.20	37.08

BT-BR(1Mbps)RX

2440MHz_USB



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)
PK	30M	30.57	40.00	-9.43	-13.20	3	Horizontal	0	1.00	-	43.77	23.51	0.40	37.11
PK	167.74M	33.02	43.50	-10.48	-20.25	3	Horizontal	0	1.00	-	53.27	15.05	1.04	36.34
PK	311.3M	39.63	46.00	-6.37	-16.48	3	Horizontal	0	1.00	-	56.11	18.48	1.42	36.38
PK	960M	35.49	46.00	-10.51	-4.13	3	Horizontal	0	1.00	-	39.62	30.25	2.92	37.30
QP	840.74M	42.42	46.00	-3.58	-6.80	3	Horizontal	92	1.36	-	49.22	28.19	2.68	37.67
QP	672.62M	42.06	46.00	-3.94	-9.23	3	Horizontal	145	1.55	-	51.29	25.60	2.29	37.12

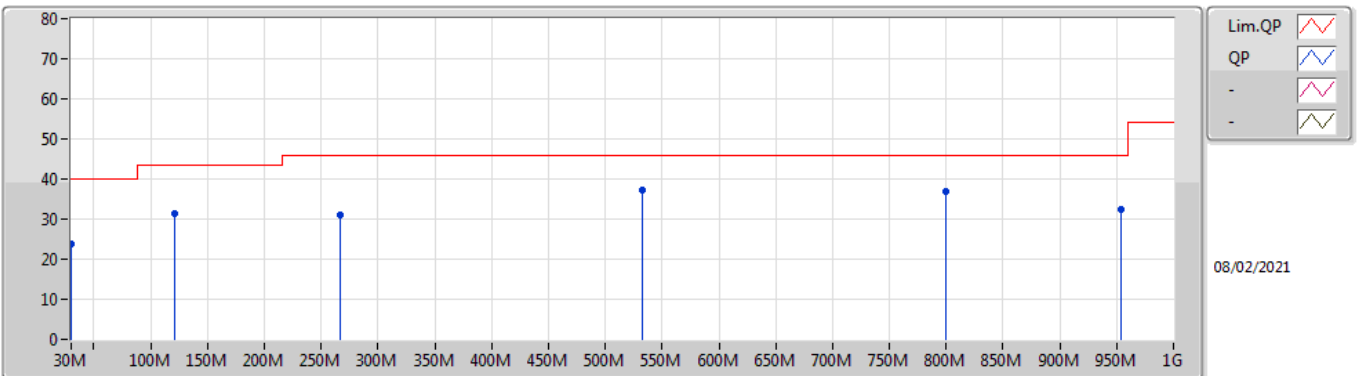
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 2	Pass	PK	534.4M	39.33	46.00	-6.67	Horizontal
Mode 3	Pass	PK	774.96M	39.53	46.00	-6.47	Horizontal

Mode Configure

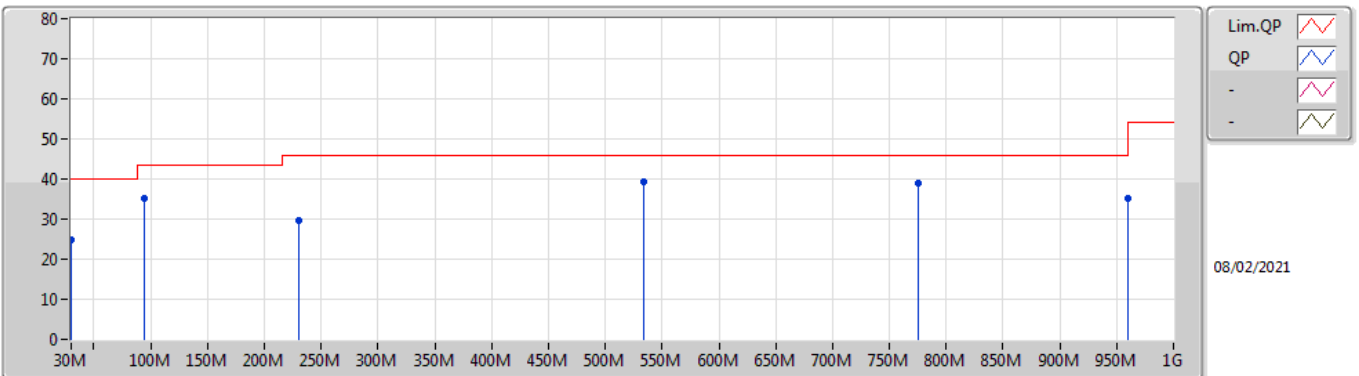
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Condition	Comments	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
Mode 2	Pass	PK	30M	23.93	40.00	-16.07	-13.20	Vertical	-	37.13	23.51	0.40	37.11
Mode 2	Pass	PK	121.18M	31.36	43.50	-12.14	-18.91	Vertical	-	50.27	16.76	0.81	36.48
Mode 2	Pass	PK	266.68M	30.89	46.00	-15.11	-16.34	Vertical	-	47.23	18.73	1.33	36.40
Mode 2	Pass	PK	532.46M	37.40	46.00	-8.60	-11.86	Vertical	-	49.26	23.24	1.96	37.06
Mode 2	Pass	PK	800.18M	37.03	46.00	-8.97	-7.70	Vertical	-	44.73	27.21	2.60	37.51
Mode 2	Pass	PK	953.44M	32.30	46.00	-13.70	-4.31	Vertical	-	36.61	30.12	2.91	37.34
Mode 2	Pass	PK	30M	25.00	40.00	-15.00	-13.20	Horizontal	-	38.20	23.51	0.40	37.11
Mode 2	Pass	PK	94.02M	35.23	43.50	-8.27	-21.40	Horizontal	-	56.63	14.47	0.70	36.57
Mode 2	Pass	PK	229.82M	29.73	46.00	-16.27	-19.65	Horizontal	-	49.38	15.46	1.22	36.33
Mode 2	Pass	PK	534.4M	39.33	46.00	-6.67	-11.83	Horizontal	-	51.16	23.26	1.97	37.06
Mode 2	Pass	PK	774.96M	39.09	46.00	-6.91	-7.44	Horizontal	-	46.53	27.36	2.55	37.35
Mode 2	Pass	PK	960M	35.11	46.00	-10.89	-4.13	Horizontal	-	39.24	30.25	2.92	37.30
Mode 3	Pass	PK	30M	23.93	40.00	-16.07	-13.20	Vertical	-	37.13	23.51	0.40	37.11
Mode 3	Pass	PK	212.36M	20.61	43.50	-22.89	-20.92	Vertical	-	41.53	14.17	1.15	36.24
Mode 3	Pass	PK	218.18M	22.45	46.00	-23.55	-20.83	Vertical	-	43.28	14.27	1.17	36.27
Mode 3	Pass	PK	408.3M	23.65	46.00	-22.35	-13.24	Vertical	-	36.89	21.49	1.72	36.45
Mode 3	Pass	PK	774.96M	39.46	46.00	-6.54	-7.44	Vertical	-	46.90	27.36	2.55	37.35
Mode 3	Pass	PK	953.44M	35.07	46.00	-10.93	-4.31	Vertical	-	39.38	30.12	2.91	37.34
Mode 3	Pass	PK	30M	24.64	40.00	-15.36	-13.20	Horizontal	-	37.84	23.51	0.40	37.11
Mode 3	Pass	PK	214.3M	21.92	43.50	-21.58	-20.96	Horizontal	-	42.88	14.13	1.16	36.25
Mode 3	Pass	PK	224M	23.26	46.00	-22.74	-20.40	Horizontal	-	43.66	14.70	1.20	36.30
Mode 3	Pass	PK	515M	29.58	46.00	-16.42	-11.79	Horizontal	-	41.37	23.31	1.93	37.03
Mode 3	Pass	PK	774.96M	39.53	46.00	-6.47	-7.44	Horizontal	-	46.97	27.36	2.55	37.35
Mode 3	Pass	PK	895.24M	39.30	46.00	-6.70	-6.62	Horizontal	-	45.92	28.14	2.79	37.55

Radiated Emissions below 1GHz_Mode 2



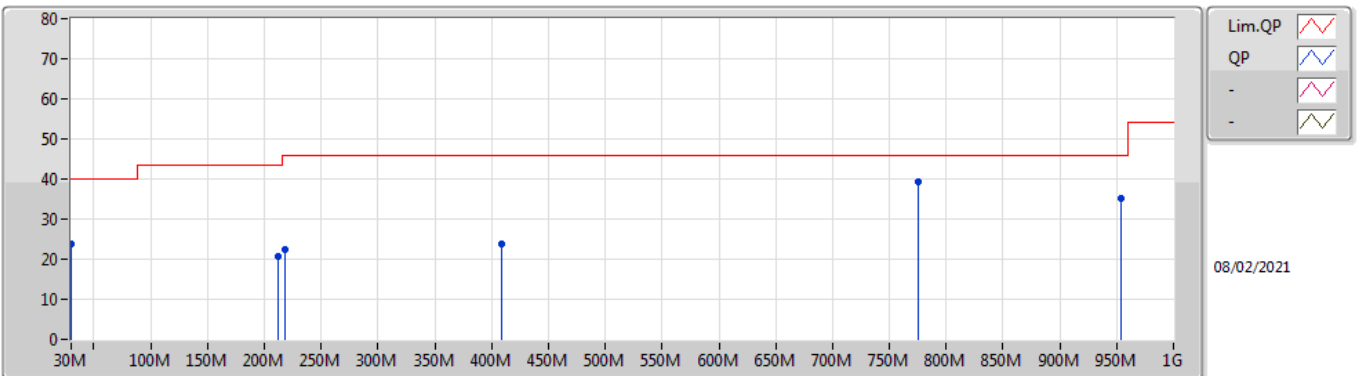
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	30M	23.93	40.00	-16.07	-13.20	3	Vertical	360	1.00	-	37.13	23.51	0.40	37.11
PK	121.18M	31.36	43.50	-12.14	-18.91	3	Vertical	360	1.00	-	50.27	16.76	0.81	36.48
PK	266.68M	30.89	46.00	-15.11	-16.34	3	Vertical	360	1.00	-	47.23	18.73	1.33	36.40
PK	532.46M	37.40	46.00	-8.60	-11.86	3	Vertical	360	1.00	-	49.26	23.24	1.96	37.06
PK	800.18M	37.03	46.00	-8.97	-7.70	3	Vertical	360	1.00	-	44.73	27.21	2.60	37.51
PK	953.44M	32.30	46.00	-13.70	-4.31	3	Vertical	360	1.00	-	36.61	30.12	2.91	37.34

Radiated Emissions below 1GHz_Mode 2



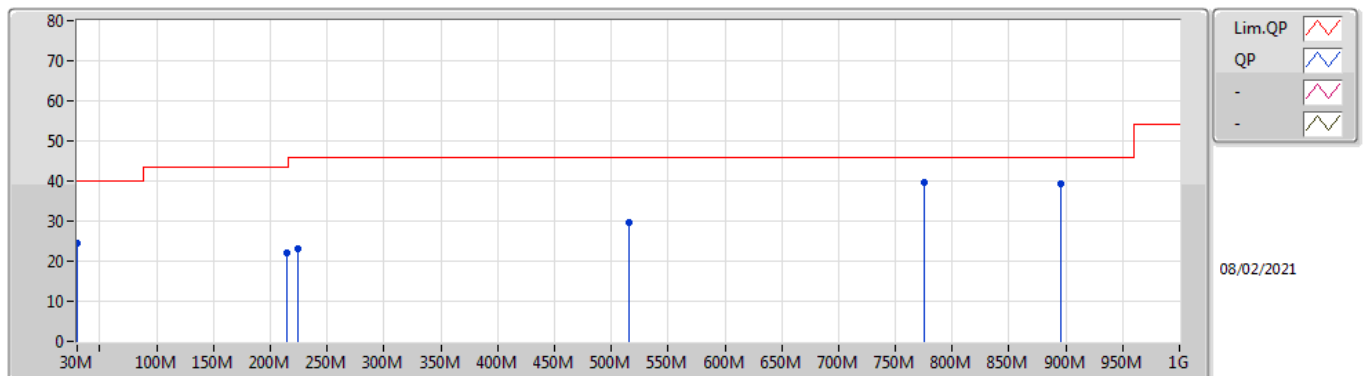
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	30M	25.00	40.00	-15.00	-13.20	3	Horizontal	0	1.00	-	38.20	23.51	0.40	37.11
PK	94.02M	35.23	43.50	-8.27	-21.40	3	Horizontal	0	1.00	-	56.63	14.47	0.70	36.57
PK	229.82M	29.73	46.00	-16.27	-19.65	3	Horizontal	0	1.00	-	49.38	15.46	1.22	36.33
PK	534.4M	39.33	46.00	-6.67	-11.83	3	Horizontal	0	1.00	-	51.16	23.26	1.97	37.06
PK	774.96M	39.09	46.00	-6.91	-7.44	3	Horizontal	0	1.00	-	46.53	27.36	2.55	37.35
PK	960M	35.11	46.00	-10.89	-4.13	3	Horizontal	0	1.00	-	39.24	30.25	2.92	37.30

Radiated Emissions below 1GHz_Mode3



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)
PK	30M	23.93	40.00	-16.07	-13.20	3	Vertical	360	1.00	-	37.13	23.51	0.40	37.11
PK	212.36M	20.61	43.50	-22.89	-20.92	3	Vertical	360	1.00	-	41.53	14.17	1.15	36.24
PK	218.18M	22.45	46.00	-23.55	-20.83	3	Vertical	360	1.00	-	43.28	14.27	1.17	36.27
PK	408.3M	23.65	46.00	-22.35	-13.24	3	Vertical	360	1.00	-	36.89	21.49	1.72	36.45
PK	774.96M	39.46	46.00	-6.54	-7.44	3	Vertical	360	1.00	-	46.90	27.36	2.55	37.35
PK	953.44M	35.07	46.00	-10.93	-4.31	3	Vertical	360	1.00	-	39.38	30.12	2.91	37.34

Radiated Emissions below 1GHz_Mode 3



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)
PK	30M	24.64	40.00	-15.36	-13.20	3	Horizontal	0	1.00	-	37.84	23.51	0.40	37.11
PK	214.3M	21.92	43.50	-21.58	-20.96	3	Horizontal	0	1.00	-	42.88	14.13	1.16	36.25
PK	224M	23.26	46.00	-22.74	-20.40	3	Horizontal	0	1.00	-	43.66	14.70	1.20	36.30
PK	515M	29.58	46.00	-16.42	-11.79	3	Horizontal	0	1.00	-	41.37	23.31	1.93	37.03
PK	774.96M	39.53	46.00	-6.47	-7.44	3	Horizontal	0	1.00	-	46.97	27.36	2.55	37.35
PK	895.24M	39.30	46.00	-6.70	-6.62	3	Horizontal	0	1.00	-	45.92	28.14	2.79	37.55



Summary

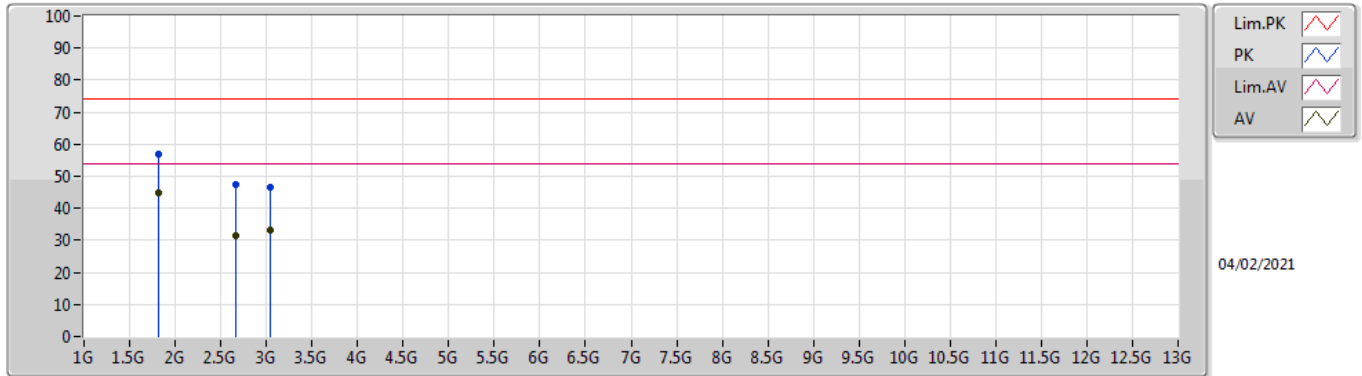
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
BT-BR(1Mbps)	Pass	AV	1.82G	44.70	54.00	-9.30	3	Vertical	0	1.00	-

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	AV	1.82G	44.70	54.00	-9.30	3	Vertical	0	1.00	-
2440MHz	Pass	AV	2.66G	31.57	54.00	-22.43	3	Vertical	0	1.00	-
2440MHz	Pass	AV	3.04G	33.26	54.00	-20.74	3	Vertical	0	1.00	-
2440MHz	Pass	PK	1.82G	57.05	74.00	-16.95	3	Vertical	0	1.00	-
2440MHz	Pass	PK	2.66G	47.57	74.00	-26.43	3	Vertical	0	1.00	-
2440MHz	Pass	PK	3.04G	46.76	74.00	-27.24	3	Vertical	0	1.00	-
2440MHz	Pass	AV	1.82G	29.18	54.00	-24.82	3	Horizontal	360	1.00	-
2440MHz	Pass	AV	3.15G	30.12	54.00	-23.88	3	Horizontal	360	1.00	-
2440MHz	Pass	AV	4.84G	31.92	54.00	-22.08	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	1.82G	52.97	74.00	-21.03	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	3.15G	43.80	74.00	-30.20	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	4.84G	46.09	74.00	-27.91	3	Horizontal	360	1.00	-

BT-BR(1Mbps)RX

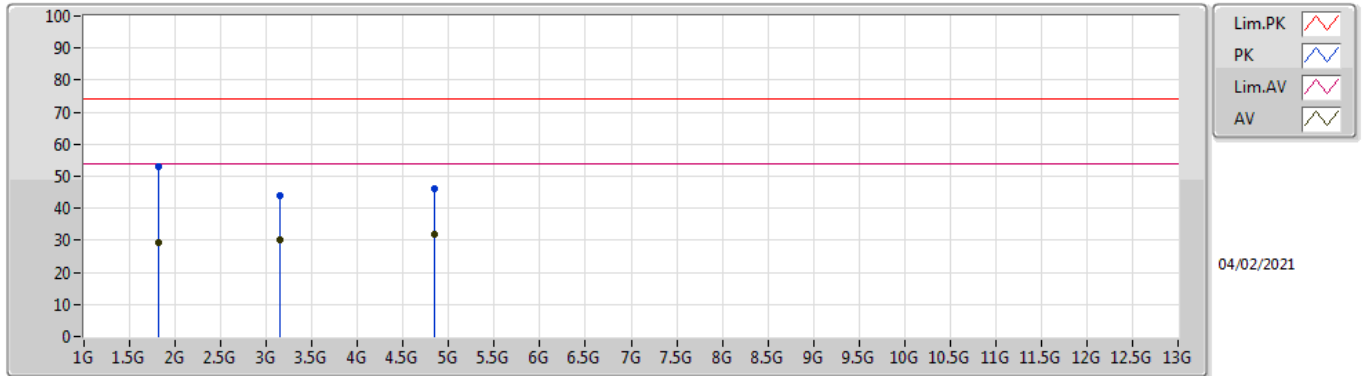
2440MHz_RX



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	1.82G	44.70	54.00	-9.30	-6.21	3	Vertical	0	1.00	-	50.91	25.34	3.22	34.77
AV	2.66G	31.57	54.00	-22.43	-2.85	3	Vertical	0	1.00	-	34.42	27.82	4.29	34.96
AV	3.04G	33.26	54.00	-20.74	-1.64	3	Vertical	0	1.00	-	34.90	28.68	4.72	35.04
PK	1.82G	57.05	74.00	-16.95	-6.21	3	Vertical	0	1.00	-	63.26	25.34	3.22	34.77
PK	2.66G	47.57	74.00	-26.43	-2.85	3	Vertical	0	1.00	-	50.42	27.82	4.29	34.96
PK	3.04G	46.76	74.00	-27.24	-1.64	3	Vertical	0	1.00	-	48.40	28.68	4.72	35.04

BT-BR(1Mbps)RX

2440MHz_RX



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	1.82G	29.18	54.00	-24.82	-6.21	3	Horizontal	360	1.00	-	35.39	25.34	3.22	34.77
AV	3.15G	30.12	54.00	-23.88	-1.29	3	Horizontal	360	1.00	-	31.41	29.00	4.78	35.07
AV	4.84G	31.92	54.00	-22.08	1.65	3	Horizontal	360	1.00	-	30.27	31.26	5.32	34.93
PK	1.82G	52.97	74.00	-21.03	-6.21	3	Horizontal	360	1.00	-	59.18	25.34	3.22	34.77
PK	3.15G	43.80	74.00	-30.20	-1.29	3	Horizontal	360	1.00	-	45.09	29.00	4.78	35.07
PK	4.84G	46.09	74.00	-27.91	1.65	3	Horizontal	360	1.00	-	44.44	31.26	5.32	34.93