

FCC Radio Test Report

FCC ID : 2A8MT-AP6
Equipment : 2x2 Dual-band Enterprise Access Point
Brand Name : ALTA LABS [^] ALTA LABS
Model Name : AP6
Applicant : SoundVision Technologies, dba Alta Labs
192 N Old Hwy 91, Unit 1 Hurricane,Utah,United States
84737
Manufacturer : SoundVision Technologies, dba Alta Labs
192 N Old Hwy 91, Unit 1 Hurricane,Utah,United States
84737
Standard : 47 CFR FCC Part 15.247

The product was received on Feb. 17, 2023, and testing was started from Feb. 16, 2023 and completed on Mar. 15, 2023. 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: Jackson Tsai

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)



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TEL : 886-3-3273456
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Report Template No.: HE1-C9 Ver4.3
FCC ID: 2A8MT-AP6

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: Ryan Hsiao

Report Producer: Debby Hung

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	Ramark
1	LITEON	3010001439GD	PIFA	I-PEX	Radio 1_2.4G+ Radio 2_5G
2	LITEON	3010001437GD	PIFA	I-PEX	Radio 1_2.4G+ Radio 2_5G
3	LITEON	3010001440GD	PIFA	I-PEX	Radio 1_BT

Ant.	Port	Gain (dBi)					
		2.4G	UNII-1	UNII-2A	UNII-2C	UNII-3	BT
1	1	3.4	4.2	4.0	4.3	4.2	-
2	2	3.2	4.3	4.2	4.1	4.0	-
3	1	-	-	-	-	-	2.7

Note 1: The EUT has three antennas.

For 2.4GHz function:

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

Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.

For BT function:

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

Ant. 3 (port 1) could transmit/receive.

For 5GHz function:

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

Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.

1.1.3 EUT Information

Operational Condition			
EUT Power Type	From PoE		
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)	0.745	1.28	2.887m	1k
BT-EDR(2Mbps)	0.828	0.82	2.888m	1k
BT-EDR(3Mbps)	0.742	1.3	2.891m	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:

- ♦ 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				
☒ 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	23.8~24.9°C / 52~57%	15/Mar/2023
RF Conducted	TH01-HY	Johnny Yu	22.2~23.4°C / 50~52%	06/Mar/2023~09/Mar/2023
Radiated (Co-location)	03CH03-HY	Bart Chen	22.2~23.4°C / 50~52%	13/Mar/2023
☒ 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	Lego Lin	21.2~22.3°C / 56~59%	16/Feb/2023~03/Mar/2023

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
AC Power-line Conducted Emissions	4.53 dB	Confidence levels of 95%
Bandwidth	3 MHz	Confidence levels of 95%
Maximum Conducted Output Power	2 dB	Confidence levels of 95%
Emissions in Non-restricted Frequency Bands	0.14 dB	Confidence levels of 95%
Emissions in Restricted Frequency Bands	4.8 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	qdart_conn.win.1.0_installer_00086.1
Mode	Power Setting
BT-BR(1Mbps)	-
2402MHz	9
2440MHz	9
2480MHz	9
BT-EDR(2Mbps)	-
2402MHz	9
2440MHz	9
2480MHz	9
BT-EDR(3Mbps)	-
2402MHz	9
2440MHz	9
2480MHz	9

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	PoE 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 ☒ 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		
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	PoE mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT		V	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Test Condition	Radiated measurement
Operating Mode	CTX
1	2.4GHz WLAN+5GHz WLAN+Bluetooth
Refer to Sporton Test Report No.: FA321732 for Co-location RF Exposure Evaluation and Appendix H for Radiated Emission Co-location.	

2.3 Accessories

Accessories				
Ceiling Bracket	Brand Name	N/A	Model Name	N/A
Wallmount	Brand Name	N/A	Model Name	N/A

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

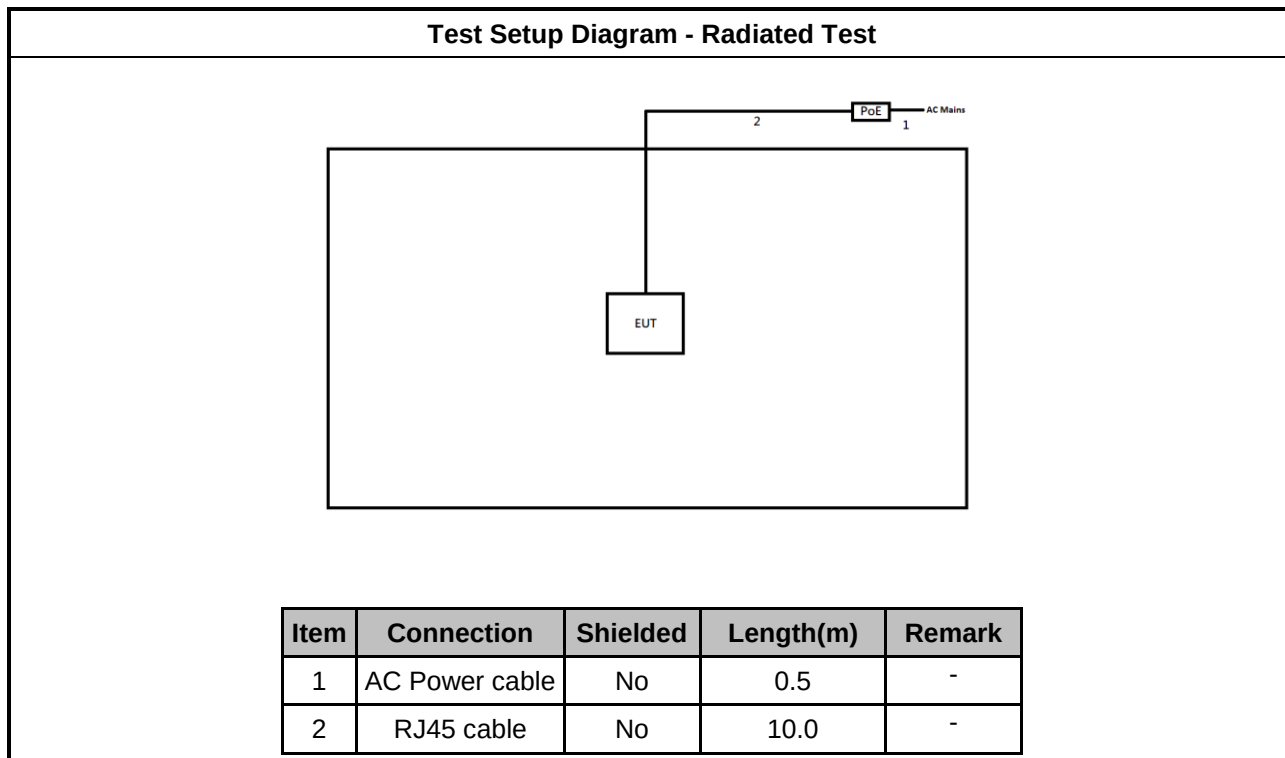
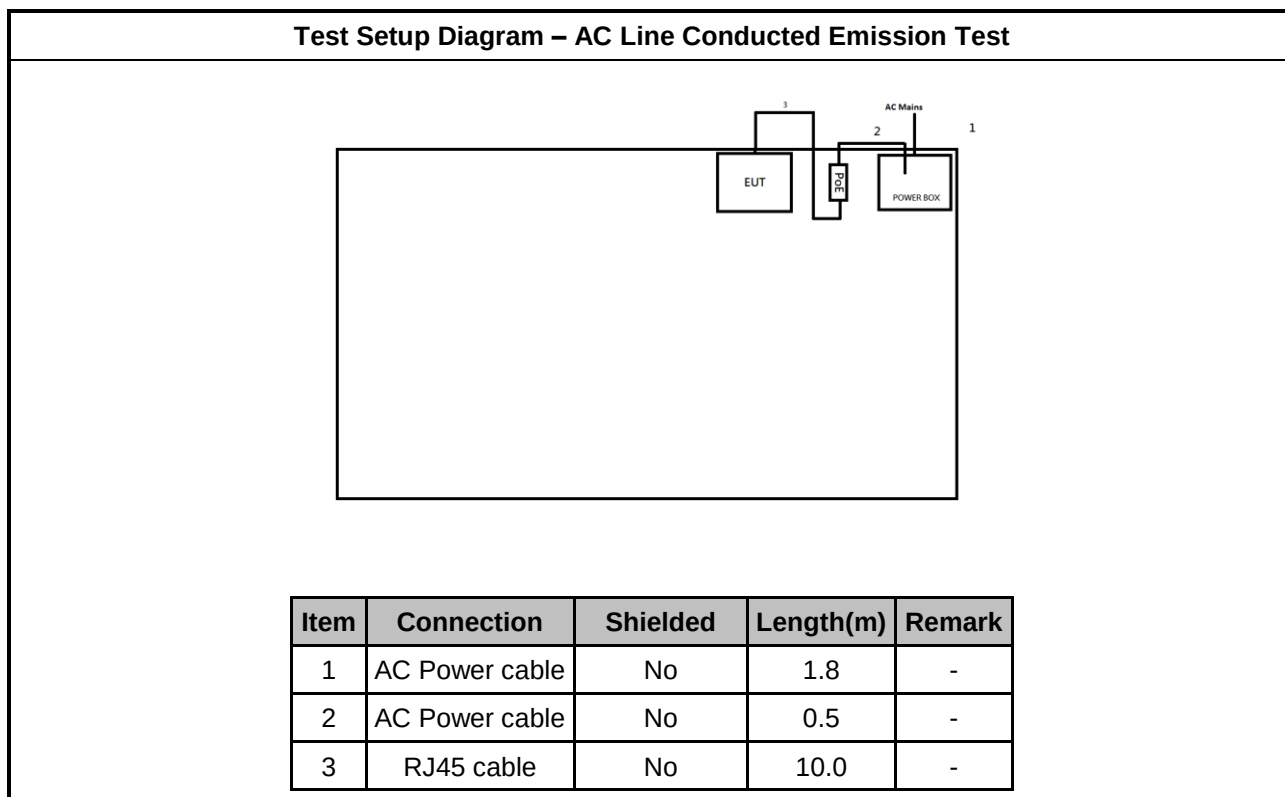
2.4 Support Equipment

Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	PoE	EnGenius	EPA5006GP	-	-

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	PoE	EnGenius	EPA5006GP	-	Remote
2	AC Power cable	Power Sync	PW-GPC180-3	-	-

2.5 Test Setup Diagram



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

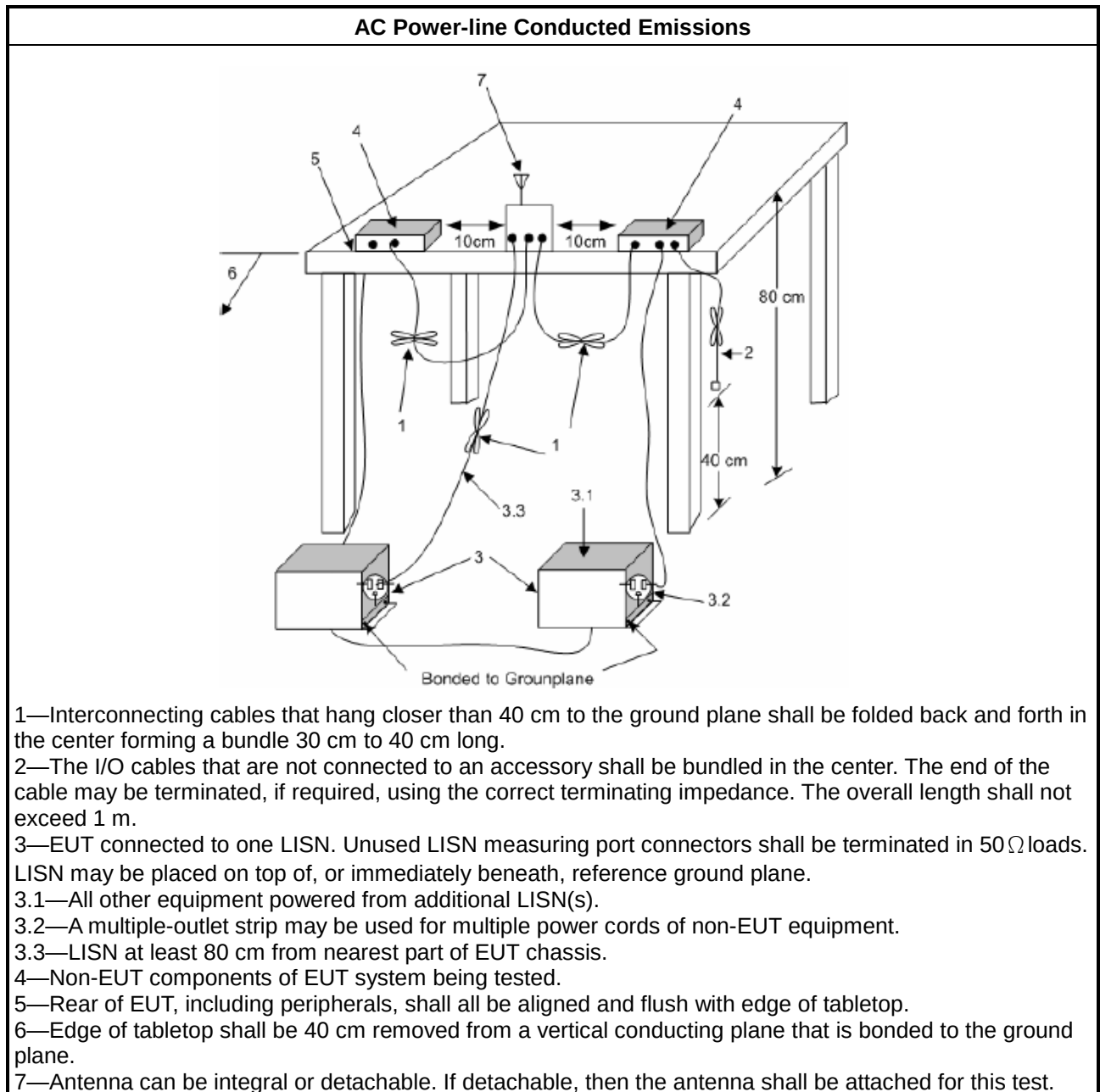
Test Method
▪ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

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	

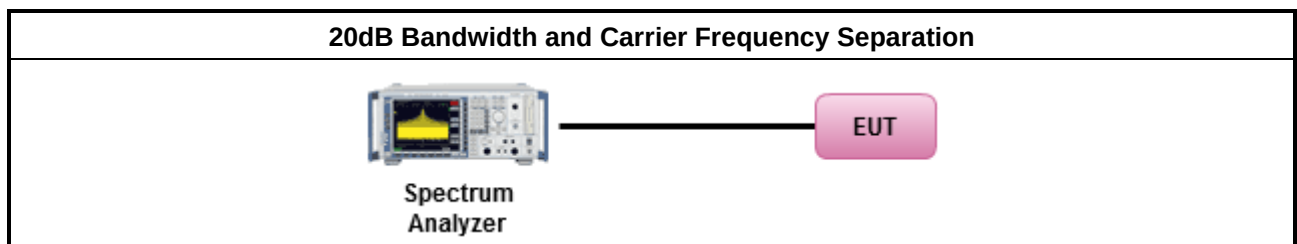
3.2.2 Measuring Instruments

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	

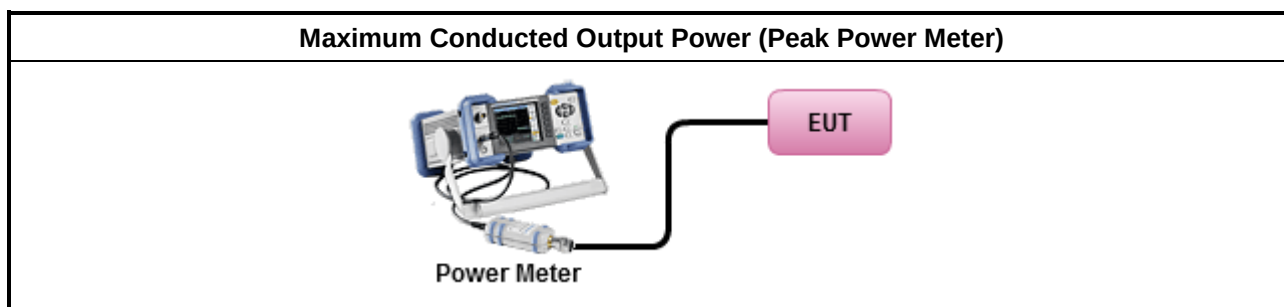
3.3.2 Measuring Instruments

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

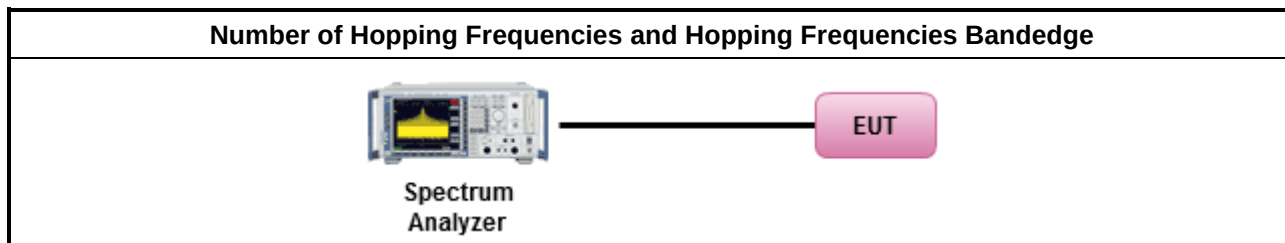
3.4.3 Measuring Instruments

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	

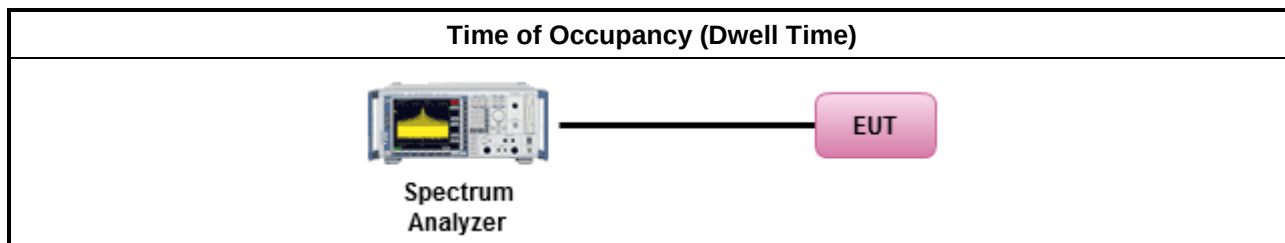
3.5.2 Measuring Instruments

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.	

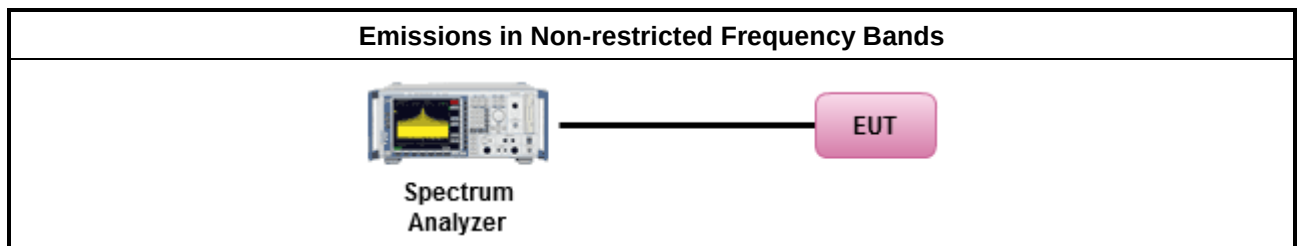
3.6.2 Measuring Instruments

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

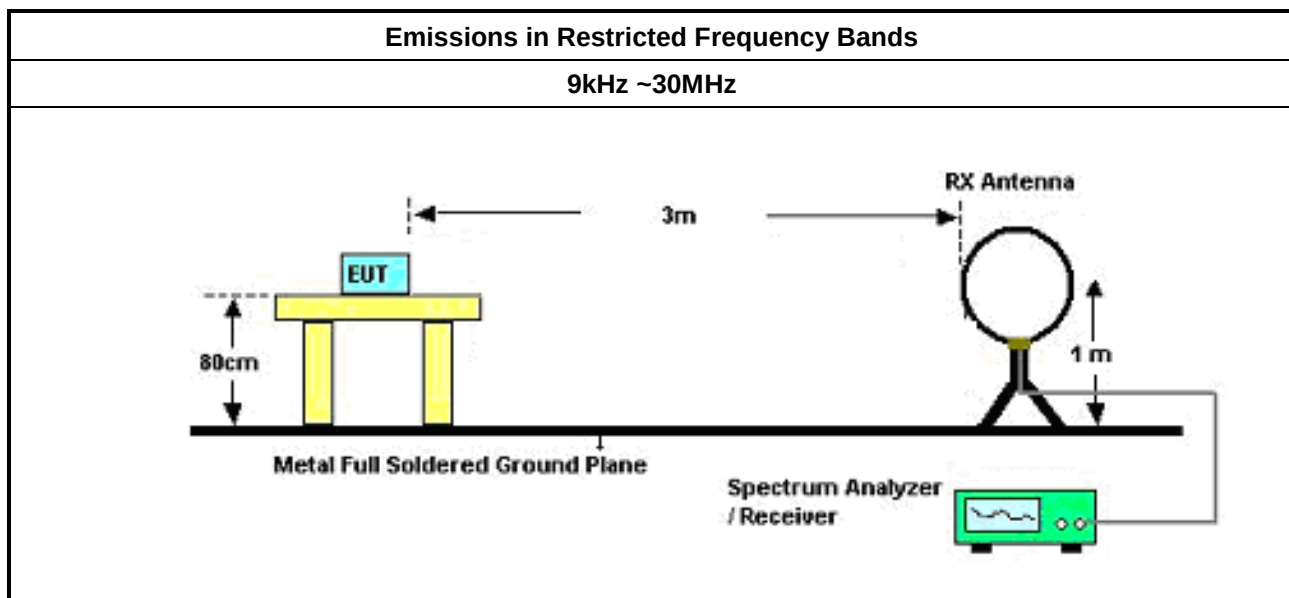
Test Method	
	The average emission levels shall be measured in [hopping duty factor].
	Refer as ANSI C63.10; clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.
	For the transmitter unwanted emissions shall 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 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.
	Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

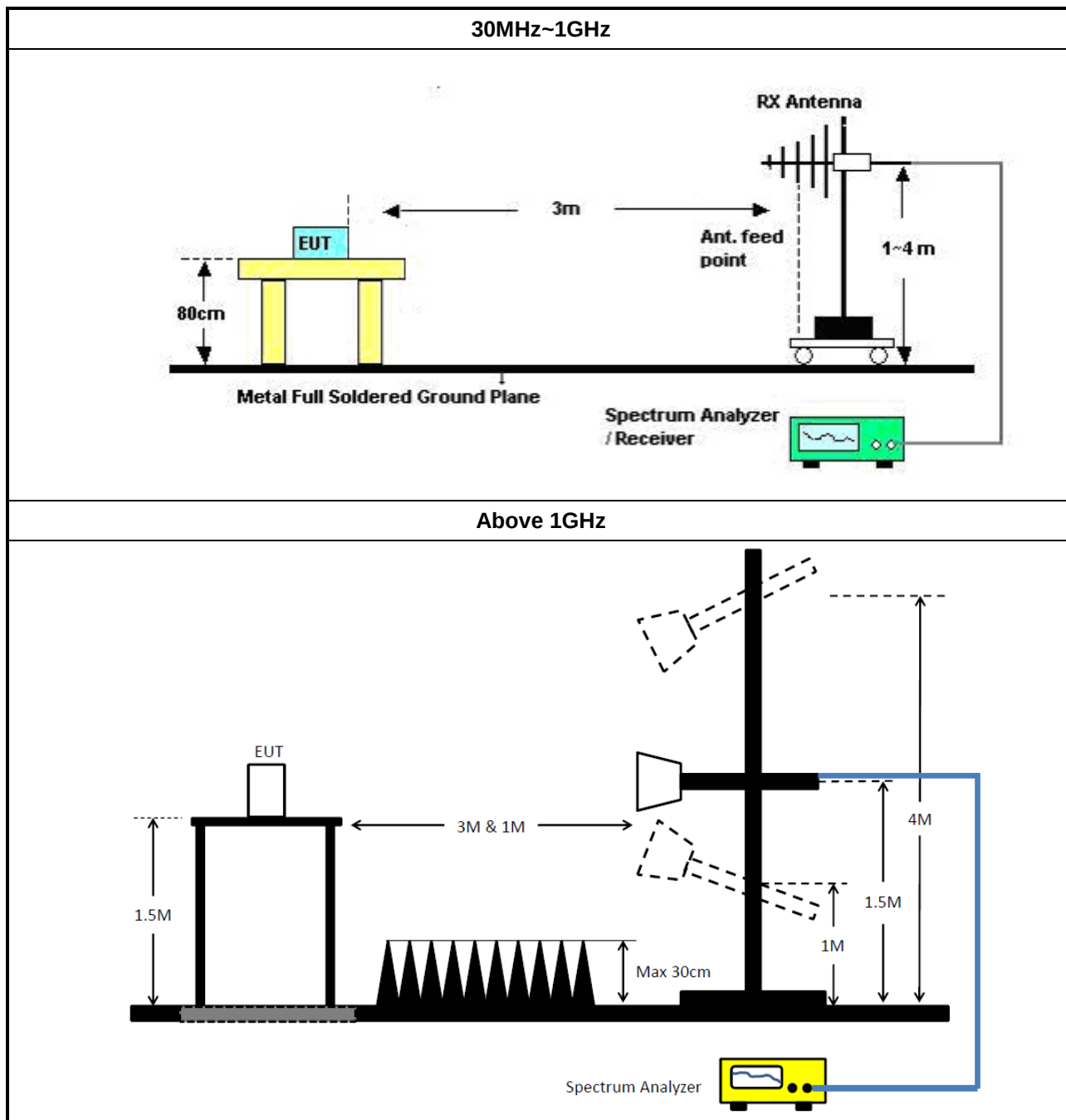
3.7.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp 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	102051	9kHz ~ 3.6GHz	13/May/2022	12/May/2023
Two-Line V-Network	R&S	ENV 216	100003	9kHz ~ 30MHz	16/Feb/2023	15/Feb/2024
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	28/Feb/2023	27/Feb/2024
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	25/Oct/2022	24/Oct/2023
Software	Sporton	SENSE-EMI	V5.10.8.7	-	NCR	NCR

NCR: No Calibration Required

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	01/Apr/2022	31/Mar/2023
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	21/Oct/2022	20/Oct/2023
Pulse Sensor	Anritsu	MA2411B	0917017	300MHz~40GHz	15/Feb/2023	14/Feb/2024
Power Meter	Anritsu	ML2495A	0949003	300MHz~40GHz	15/Feb/2023	14/Feb/2024
SENSE-15247_DTS	Sporton	V5.10.8.8	N/A	N/A	N/A	N/A

Instrument for Radiated Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Amplifier	EMC	EMC9135	980232	9kHz~1GHz	08/Apr/2022	07/Apr/2023
Microwave Preamplifier	Agilent	8449B	3008A02096	1GHz~26.5GHz	22/Jul/2022	21/Jul/2023
Bilog Antenna & 5dB Attenuator	TESEQ & MTJ	CBL6111D&MT J6102-05	35418 & 3	30MHz~1GHz	28/Aug/2022	27/Aug/2023
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1534	1GHz~18GHz	10/Mar/2022	09/Mar/2023
RF Cable-low	Jye Bao	RG142	03CH09-cable-01	9kHz~1GHz	21/Feb/2023	20/Feb/2024
RF CABLE 5m+3m+1m	HUBER+SUHNE R	SUCOFLEX104	03CH09-cable-02	1GHz~40GHz	17/Aug/2022	16/Aug/2023
RF CABLE 5m+3m+1m	HUBER+SUHNE R	SUCOFLEX104	03CH09-cable-02	1GHz~40GHz	21/Feb/2023	20/Feb/2024
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	18GHz~40GHz	18/Mar/2022	17/Mar/2023
Microwave Premplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~ 40GHz	08/Mar/2022	07/Mar/2023
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	18/Mar/2022	17/Mar/2023
EMI Test Receiver	R&S	ESR3	102052	9kHz~3.6GHz	30/May/2022	29/May/2023
SENSE_15247_FS	Sporton	Sporton	V5.11	NA	NA	NA

Instrument for Radiated Test (Co-location)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	1GHz~18GHz 3m	02/Aug/2022	01/Aug/2023
Signal Analyzer	R&S	FSV40	101500	10Hz~40GHz	26/Oct/2022	25/Oct/2023
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02267	1GHz ~18GHz	27/Sep/2022	26/Sep/2023
RF CABLE 5+6m	HUBER+SUHNER	SUOFLEX 104	03CH03-cable-01	1GHz~40GHz	27/Jul/2022	26/Jul/2023
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz~40GHz	18/Mar/2022	17/Mar/2023
Microwave Premplifier	Agilent	8449B	3008A02326	1GHz~26.5GHz	14/Jul/2022	13/Jul/2023
Microwave Premplifier	EMC INSTRUMENTS	EM18G40G	060874	18GHz ~ 40GHz	23/Aug/2022	22/Aug/2023
SENSE-15407	Sporton	NA	5.11	NA	NA	NA



Conducted Emissions at Powerline

Appendix A

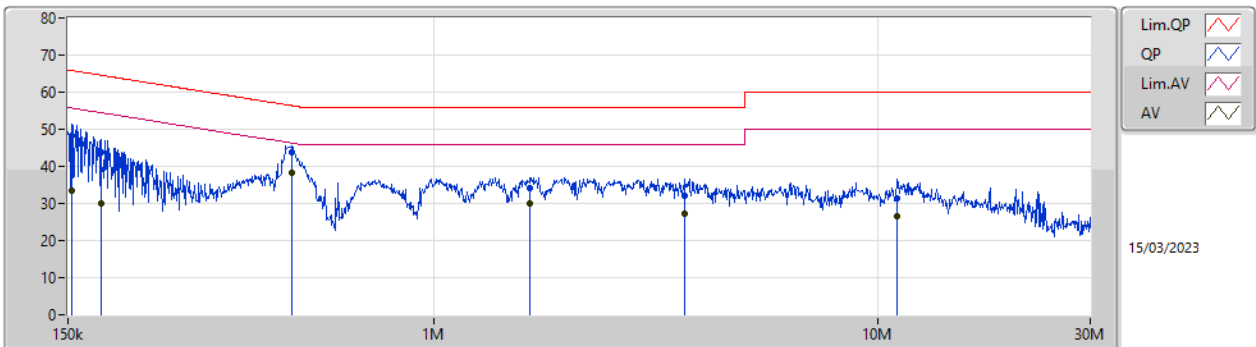
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	477.384k	38.12	46.38	-8.26	Line

Result

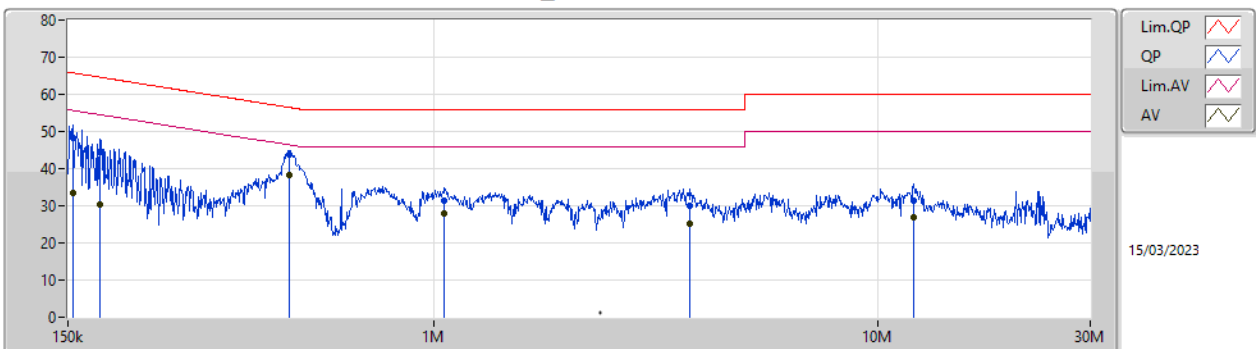
Mode	Result	Type	Freq (Hz)	Level (dBUV)	Limit (dBUV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	153.024k	48.41	65.83	-17.42	Line	-
Mode 1	Pass	AV	153.024k	33.29	55.83	-22.54	Line	-
Mode 1	Pass	QP	178.091k	43.63	64.57	-20.94	Line	-
Mode 1	Pass	AV	178.091k	29.92	54.57	-24.65	Line	-
Mode 1	Pass	QP	477.384k	43.90	56.38	-12.48	Line	-
Mode 1	Pass	AV	477.384k	38.12	46.38	-8.26	Line	-
Mode 1	Pass	QP	1.646M	33.98	56.00	-22.02	Line	-
Mode 1	Pass	AV	1.646M	30.00	46.00	-16.00	Line	-
Mode 1	Pass	QP	3.671M	32.00	56.00	-24.00	Line	-
Mode 1	Pass	AV	3.671M	27.19	46.00	-18.81	Line	-
Mode 1	Pass	QP	11.048M	31.21	60.00	-28.79	Line	-
Mode 1	Pass	AV	11.048M	26.47	50.00	-23.53	Line	-
Mode 1	Pass	QP	153.636k	48.35	65.81	-17.46	Neutral	-
Mode 1	Pass	AV	153.636k	33.62	55.81	-22.19	Neutral	-
Mode 1	Pass	QP	176.674k	44.47	64.64	-20.17	Neutral	-
Mode 1	Pass	AV	176.674k	30.41	54.64	-24.23	Neutral	-
Mode 1	Pass	QP	473.588k	43.70	56.46	-12.76	Neutral	-
Mode 1	Pass	AV	473.588k	38.17	46.46	-8.29	Neutral	-
Mode 1	Pass	QP	1.057M	31.22	56.00	-24.78	Neutral	-
Mode 1	Pass	AV	1.057M	27.80	46.00	-18.20	Neutral	-
Mode 1	Pass	QP	3.76M	30.03	56.00	-25.97	Neutral	-
Mode 1	Pass	AV	3.76M	25.06	46.00	-20.94	Neutral	-
Mode 1	Pass	QP	12.015M	31.53	60.00	-28.47	Neutral	-
Mode 1	Pass	AV	12.015M	26.79	50.00	-23.21	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	153.024k	48.41	65.83	-17.42	19.61	Line	-	28.80	9.65	0.03	9.93			
AV	153.024k	33.29	55.83	-22.54	19.61	Line	-	13.68	9.65	0.03	9.93			
QP	178.091k	43.63	64.57	-20.94	19.61	Line	-	24.02	9.65	0.03	9.93			
AV	178.091k	29.92	54.57	-24.65	19.61	Line	-	10.31	9.65	0.03	9.93			
QP	477.384k	43.90	56.38	-12.48	19.64	Line	-	24.26	9.64	0.04	9.96			
AV	477.384k	38.12	46.38	-8.26	19.64	Line	-	18.48	9.64	0.04	9.96			
QP	1.646M	33.98	56.00	-22.02	19.68	Line	-	14.30	9.67	0.07	9.94			
AV	1.646M	30.00	46.00	-16.00	19.68	Line	-	10.32	9.67	0.07	9.94			
QP	3.671M	32.00	56.00	-24.00	19.75	Line	-	12.25	9.70	0.12	9.93			
AV	3.671M	27.19	46.00	-18.81	19.75	Line	-	7.44	9.70	0.12	9.93			
QP	11.048M	31.21	60.00	-28.79	19.95	Line	-	11.26	9.80	0.19	9.96			
AV	11.048M	26.47	50.00	-23.53	19.95	Line	-	6.52	9.80	0.19	9.96			

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	48.35	65.81	-17.46	19.59	Neutral	-	28.76	9.63	0.03	9.93			
AV	153.636k	33.62	55.81	-22.19	19.59	Neutral	-	14.03	9.63	0.03	9.93			
QP	176.674k	44.47	64.64	-20.17	19.58	Neutral	-	24.89	9.62	0.03	9.93			
AV	176.674k	30.41	54.64	-24.23	19.58	Neutral	-	10.83	9.62	0.03	9.93			
QP	473.588k	43.70	56.46	-12.76	19.63	Neutral	-	24.07	9.63	0.04	9.96			
AV	473.588k	38.17	46.46	-8.29	19.63	Neutral	-	18.54	9.63	0.04	9.96			
QP	1.057M	31.22	56.00	-24.78	19.64	Neutral	-	11.58	9.65	0.05	9.94			
AV	1.057M	27.80	46.00	-18.20	19.64	Neutral	-	8.16	9.65	0.05	9.94			
QP	3.76M	30.03	56.00	-25.97	19.74	Neutral	-	10.29	9.68	0.13	9.93			
AV	3.76M	25.06	46.00	-20.94	19.74	Neutral	-	5.32	9.68	0.13	9.93			
QP	12.015M	31.53	60.00	-28.47	20.02	Neutral	-	11.51	9.85	0.21	9.96			
AV	12.015M	26.79	50.00	-23.21	20.02	Neutral	-	6.77	9.85	0.21	9.96			

**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)	1.023M	1.002M	1M00F1D	1.023M	1.001M
BT-EDR(2Mbps)	1.172M	1.137M	1M14G1D	1.172M	1.132M
BT-EDR(3Mbps)	1.158M	1.084M	1M08G1D	1.141M	1.083M

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

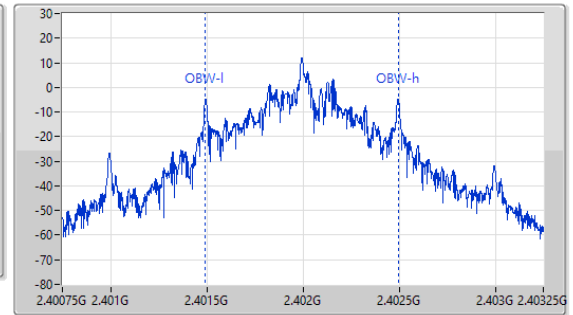
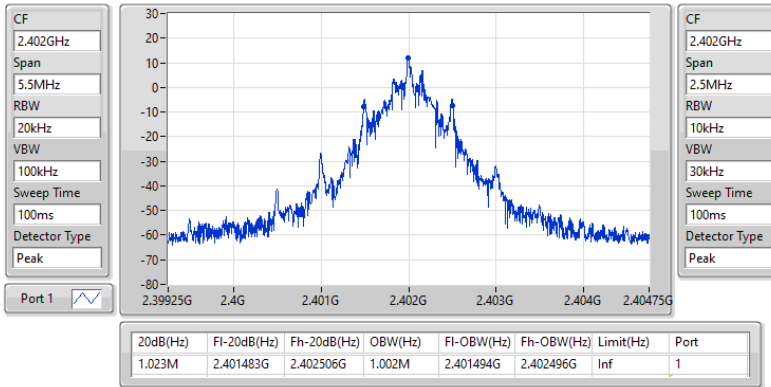
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.023M	1.002M
2440MHz	Pass	Inf	1.023M	1.002M
2480MHz	Pass	Inf	1.023M	1.001M
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.172M	1.132M
2440MHz	Pass	Inf	1.172M	1.137M
2480MHz	Pass	Inf	1.172M	1.134M
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.141M	1.083M
2440MHz	Pass	Inf	1.158M	1.084M
2480MHz	Pass	Inf	1.152M	1.084M

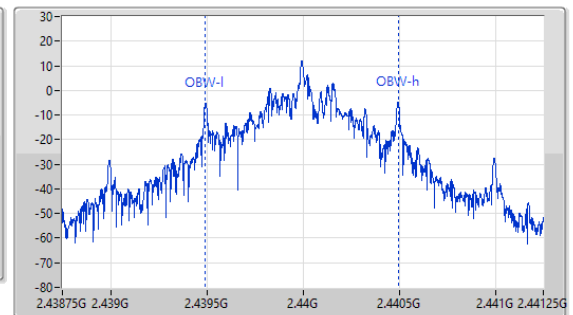
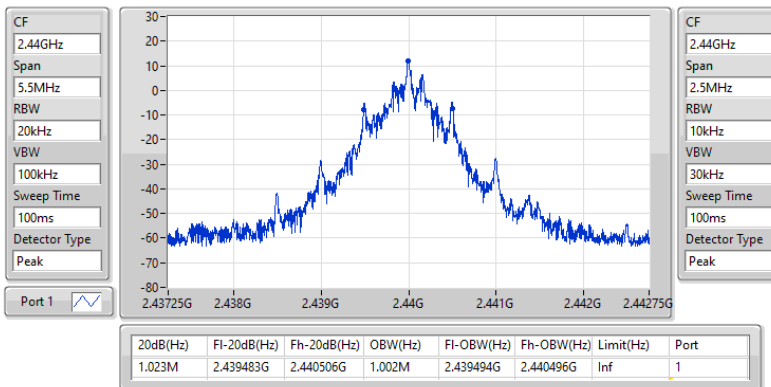
Port X-N dB = Port X 20dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_BT-BR(1Mbps)
EBW-FS
2402MHz

07/03/2023


2.4-2.4835GHz_BT-BR(1Mbps)
EBW-FS
2440MHz

07/03/2023

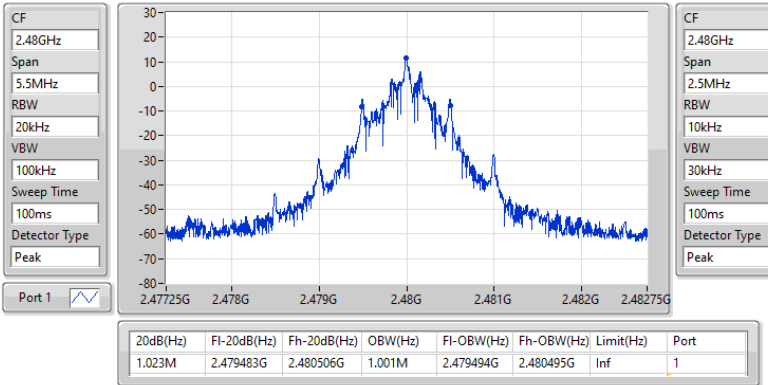


2.4-2.4835GHz_BT-BR(1Mbps)

EBW-FS

2480MHz

07/03/2023

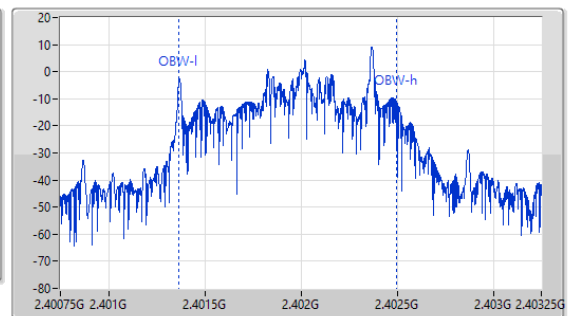
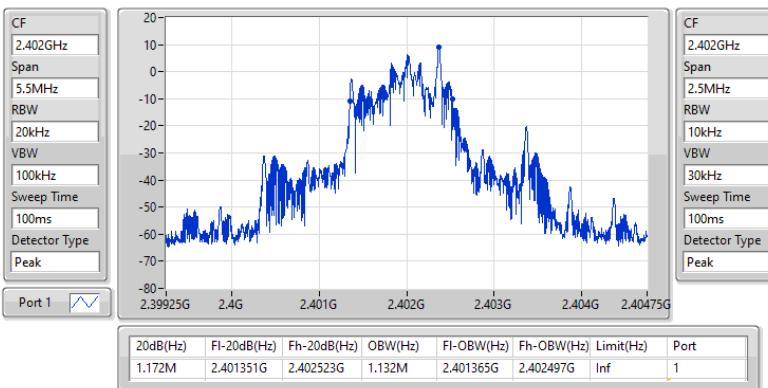


2.4-2.4835GHz_BT-EDR(2Mbps)

EBW-FS

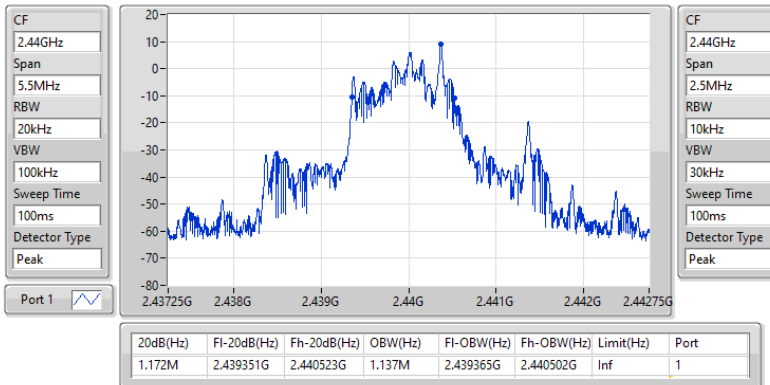
2402MHz

07/03/2023

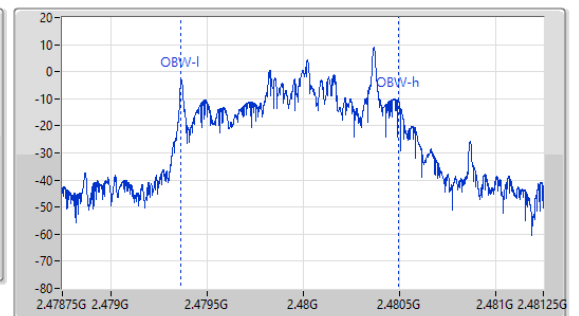
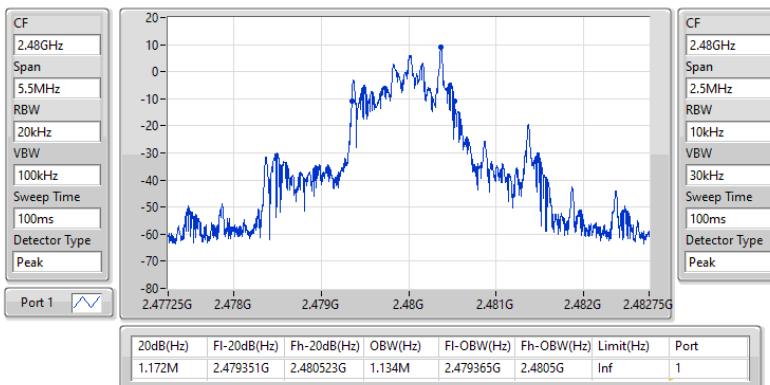


2.4-2.4835GHz_BT-EDR(2Mbps)
EBW-FS
2440MHz

07/03/2023


2.4-2.4835GHz_BT-EDR(2Mbps)
EBW-FS
2480MHz

07/03/2023

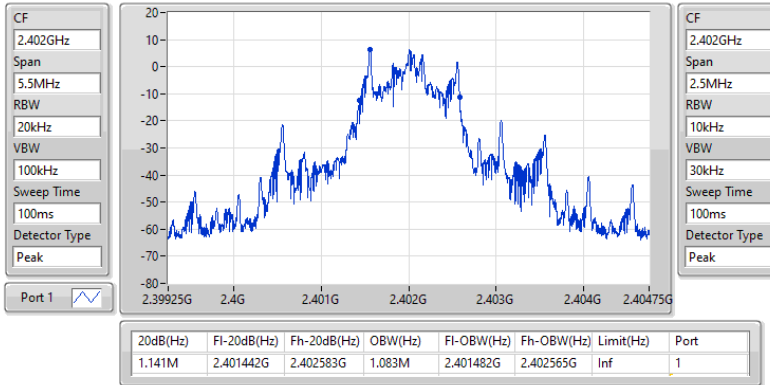


2.4-2.4835GHz_BT-EDR(3Mbps)

EBW-FS

2402MHz

07/03/2023

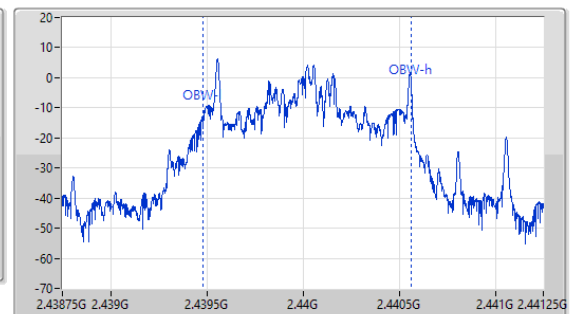
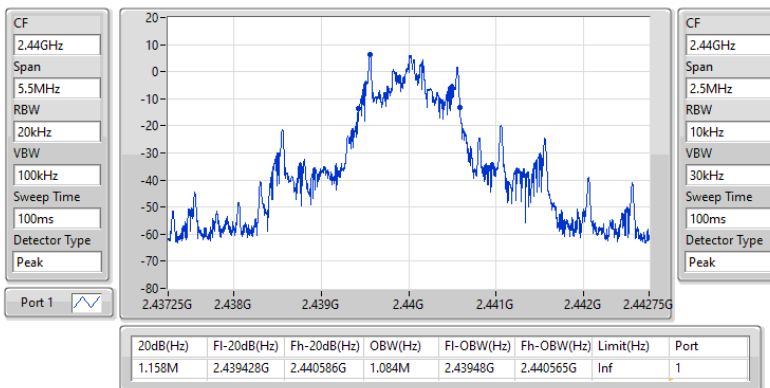


2.4-2.4835GHz_BT-EDR(3Mbps)

EBW-FS

2440MHz

07/03/2023

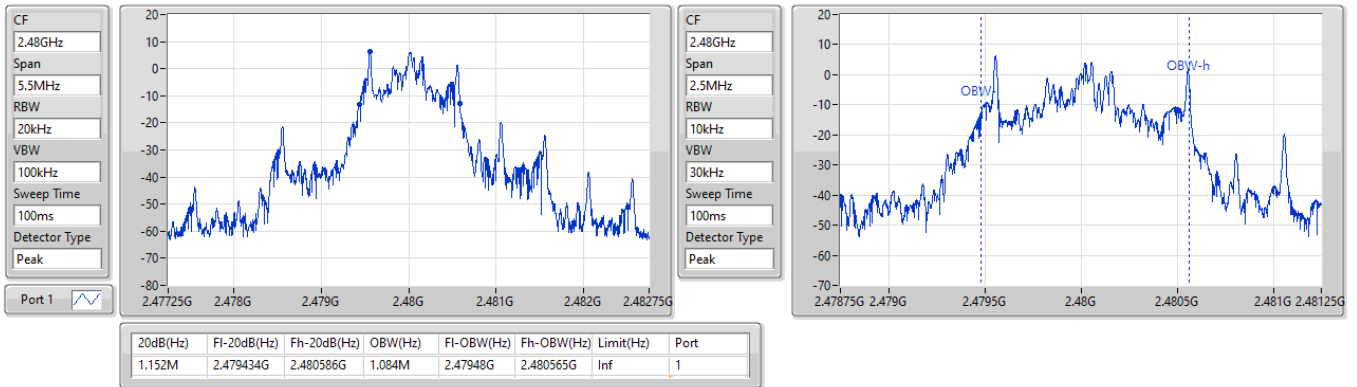


2.4-2.4835GHz_BT-EDR(3Mbps)

EBW-FS

2480MHz

07/03/2023





Summary

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

Result

Mode	Result	Fl (Hz)	Fh (Hz)	Ch.Space (Hz)	Limit (Hz)
BT-BR(1Mbps)	-	-	-	-	-
2402MHz	Pass	2.401995G	2.402994G	999k	681.318k
2440MHz	Pass	2.439993G	2.440994G	1.0005M	681.318k
2480MHz	Pass	2.478995G	2.479994G	999k	681.318k
BT-EDR(2Mbps)	-	-	-	-	-
2402MHz	Pass	2.40237G	2.40337G	1.0005M	780.552k
2440MHz	Pass	2.44037G	2.441369G	999k	780.552k
2480MHz	Pass	2.47937G	2.480369G	999k	780.552k
BT-EDR(3Mbps)	-	-	-	-	-
2402MHz	Pass	2.40201G	2.40301G	1.0005M	759.906k
2440MHz	Pass	2.44001G	2.44101G	1.0005M	771.228k
2480MHz	Pass	2.47901G	2.48001G	1.0005M	767.232k

2.4-2.4835GHz_BT-BR(1Mbps)

Channel Separation-FS

2.402G/2.403GHz

06/03/2023

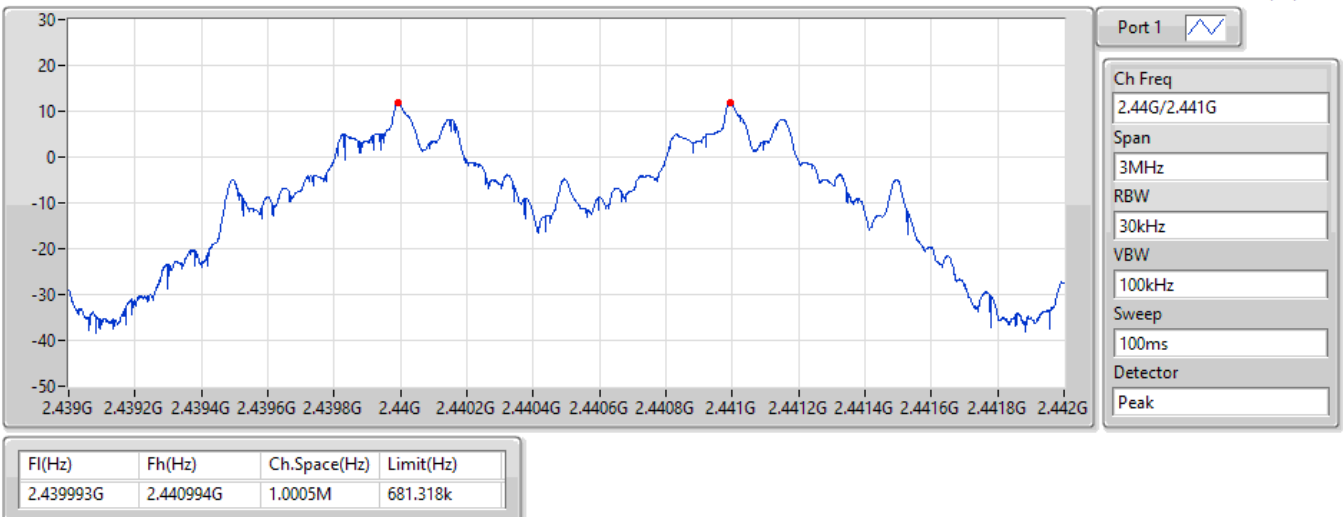


2.4-2.4835GHz_BT-BR(1Mbps)

Channel Separation-FS

2.44G/2.441GHz

06/03/2023



2.4-2.4835GHz_BT-BR(1Mbps)

Channel Separation-FS

2.48G/2.479GHz

07/03/2023

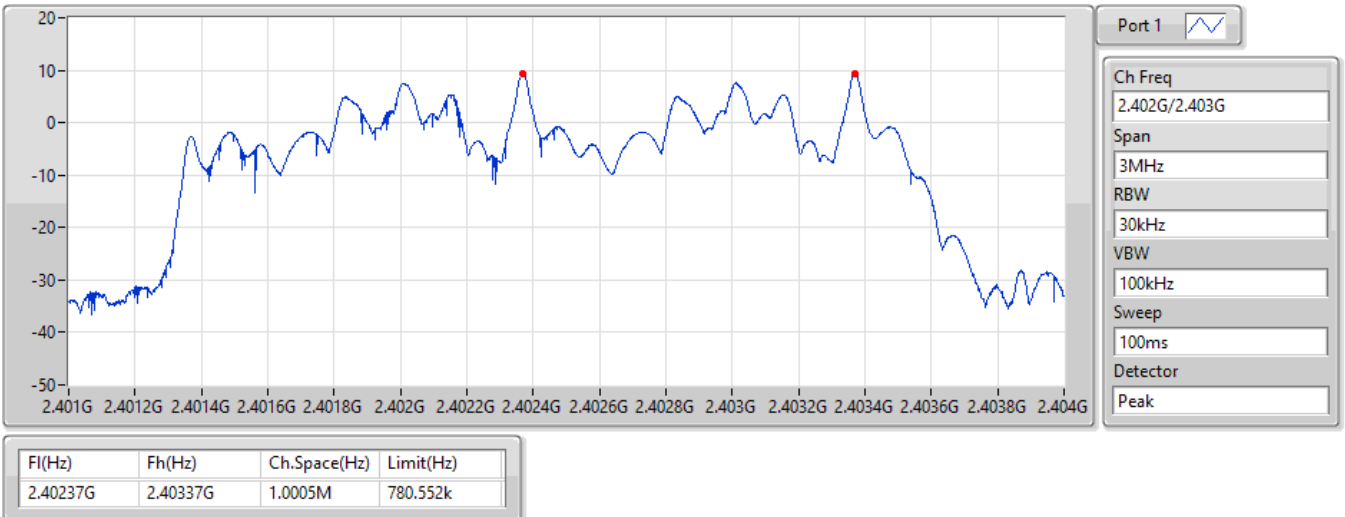


2.4-2.4835GHz_BT-EDR(2Mbps)

Channel Separation-FS

2.402G/2.403GHz

07/03/2023

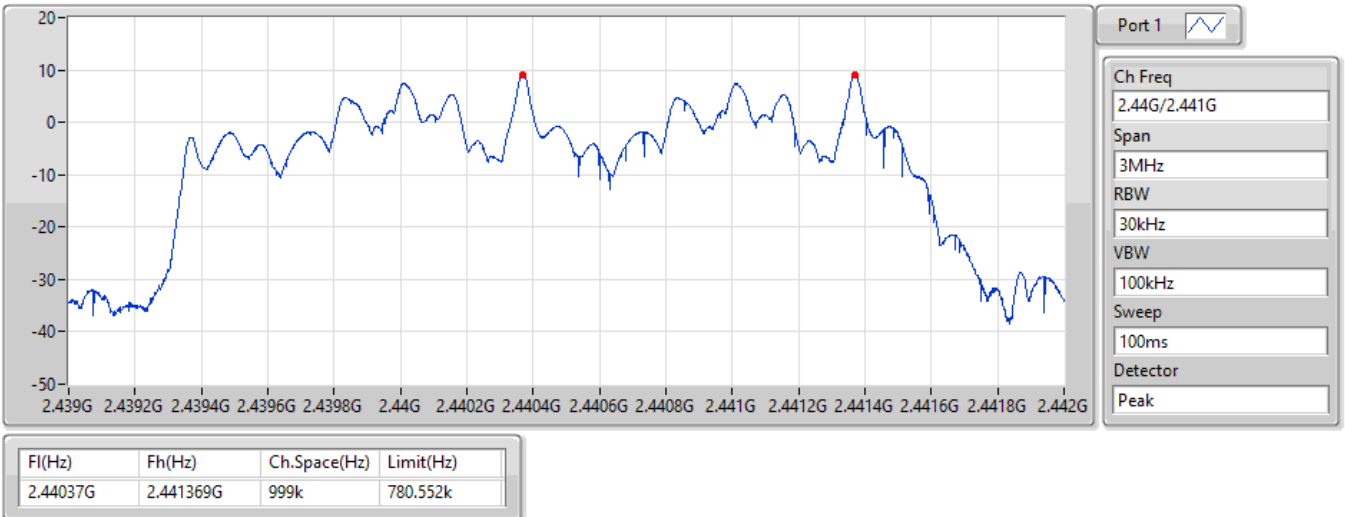


2.4-2.4835GHz_BT-EDR(2Mbps)

Channel Separation-FS

2.44G/2.441GHz

07/03/2023

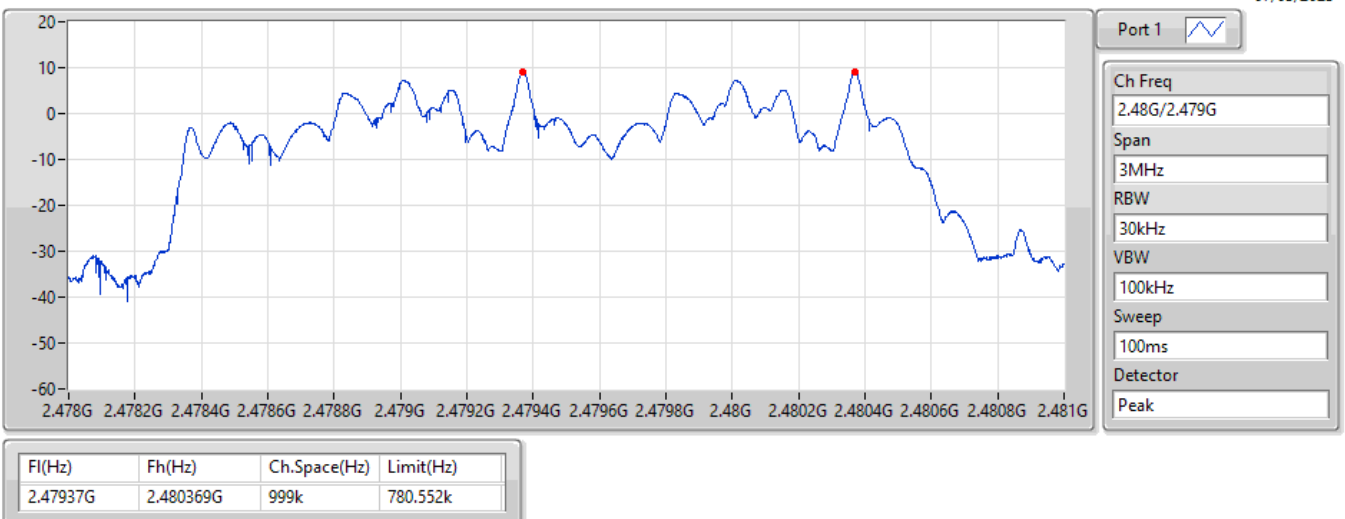


2.4-2.4835GHz_BT-EDR(2Mbps)

Channel Separation-FS

2.48G/2.479GHz

07/03/2023

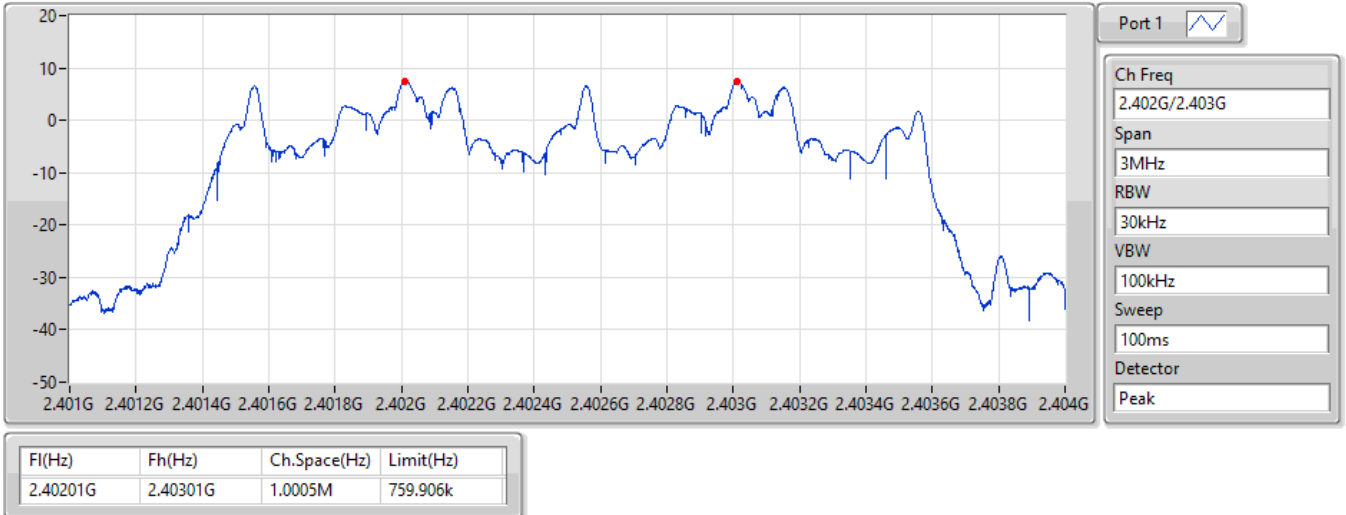


2.4-2.4835GHz_BT-EDR(3Mbps)

Channel Separation-FS

2.402G/2.403GHz

07/03/2023

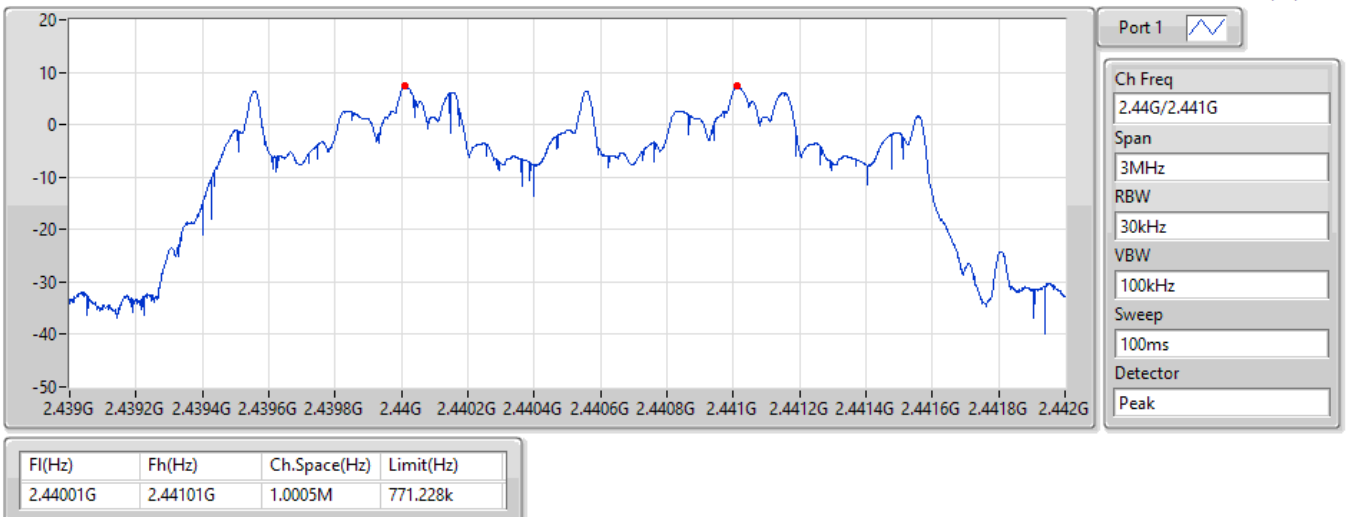


2.4-2.4835GHz_BT-EDR(3Mbps)

Channel Separation-FS

2.44G/2.441GHz

07/03/2023

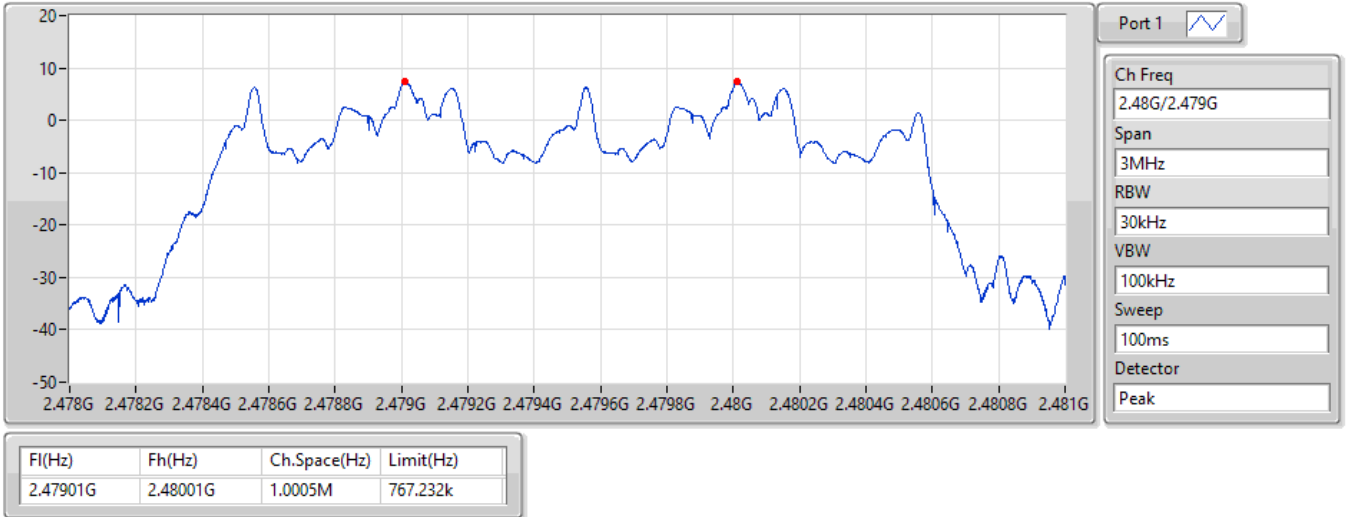


2.4-2.4835GHz_BT-EDR(3Mbps)

Channel Separation-FS

2.48G/2.479GHz

07/03/2023





Summary

Mode	Total Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	12.28	0.01690
BT-EDR(2Mbps)	11.19	0.01315
BT-EDR(3Mbps)	11.27	0.01340

Result

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	2.70	12.28	21.00
2440MHz	Pass	2.70	12.08	21.00
2480MHz	Pass	2.70	11.81	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	2.70	11.09	21.00
2440MHz	Pass	2.70	11.19	21.00
2480MHz	Pass	2.70	10.97	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	2.70	11.27	21.00
2440MHz	Pass	2.70	11.19	21.00
2480MHz	Pass	2.70	10.96	21.00

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



Summary

Mode	Total Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	12.13	0.01633
BT-EDR(2Mbps)	9.41	0.00873
BT-EDR(3Mbps)	9.30	0.00851



Result

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	2.70	12.13	21.00
2440MHz	Pass	2.70	11.83	21.00
2480MHz	Pass	2.70	11.58	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	2.70	9.41	21.00
2440MHz	Pass	2.70	9.22	21.00
2480MHz	Pass	2.70	9.05	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	2.70	9.30	21.00
2440MHz	Pass	2.70	9.17	21.00
2480MHz	Pass	2.70	8.99	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

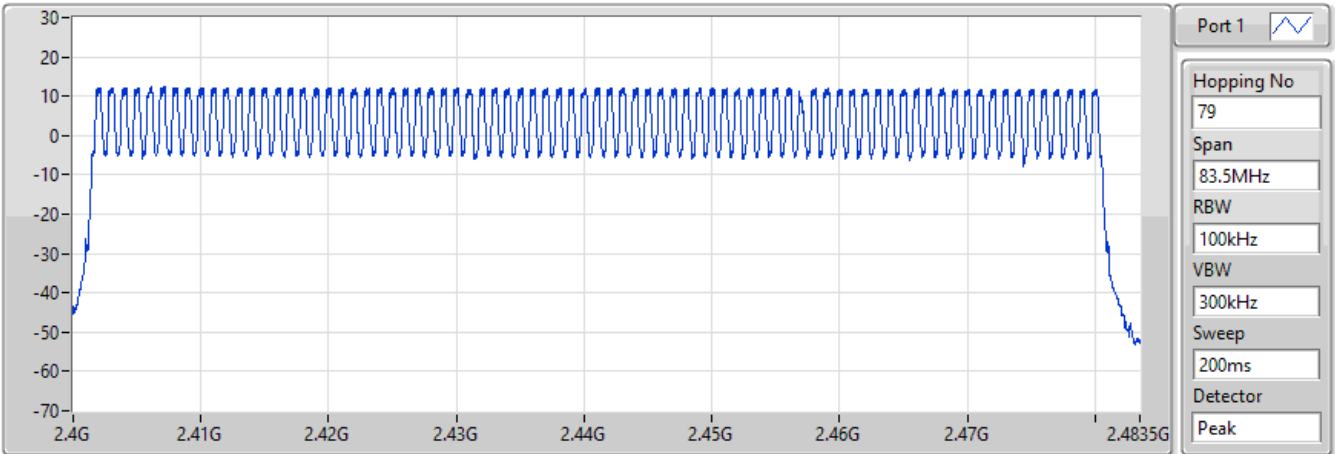
Mode	Result	Hopping No	Limit
BT-BR(1Mbps)	-	-	-
2440MHz	Pass	79	15
BT-EDR(2Mbps)	-	-	-
2440MHz	Pass	79	15
BT-EDR(3Mbps)	-	-	-
2440MHz	Pass	79	15

2.4-2.4835GHz_BT-BR(1Mbps)

Hopping-FS

2440MHz

07/03/2023



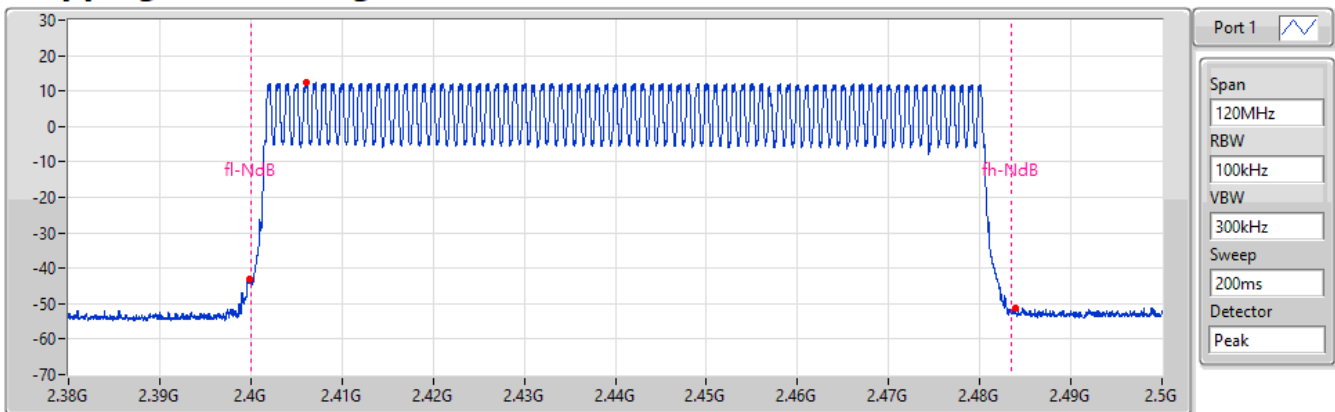
Hopping No	Limit
79	15

2.4-2.4835GHz_BT-BR(1Mbps)

2440MHz

Hopping Ch Bandedge (Non-restricted Band)

07/03/2023



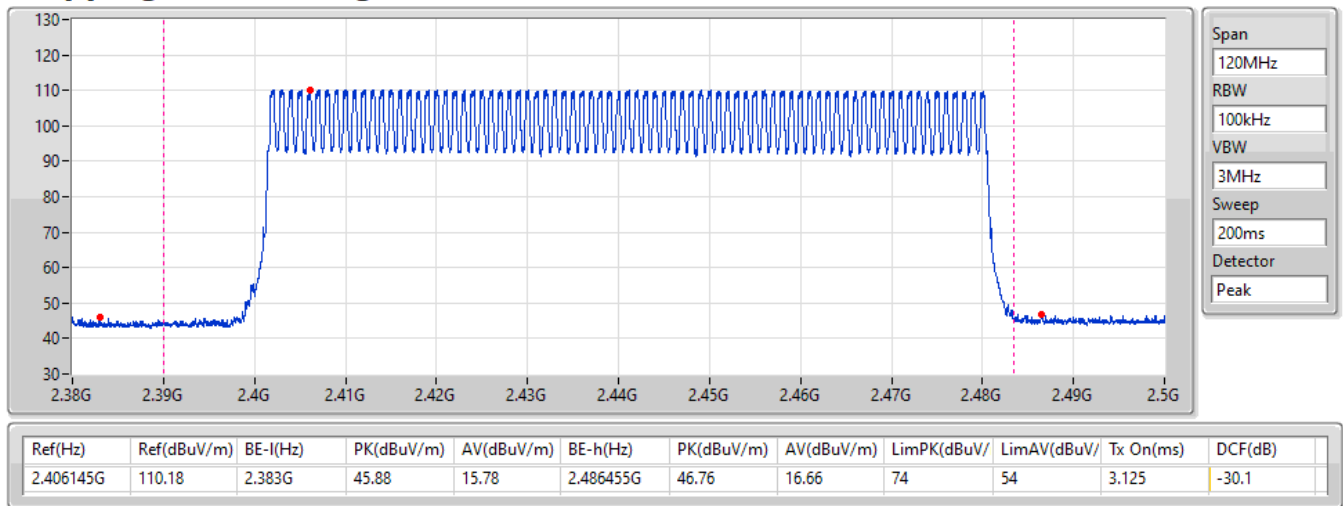
Limit(dBm)	Ref(Hz)	Ref(dBm)	BE-l(Hz)	BE-l(dBm)	BE-h(Hz)	BE-h(dBm)
-7.71	2.406145G	12.29	2.399905G	-42.87	2.48386G	-51.17

2.4-2.4835GHz_BT-BR(1Mbps)

2440MHz

Hopping Ch Bandedge (Restricted Band)

07/03/2023

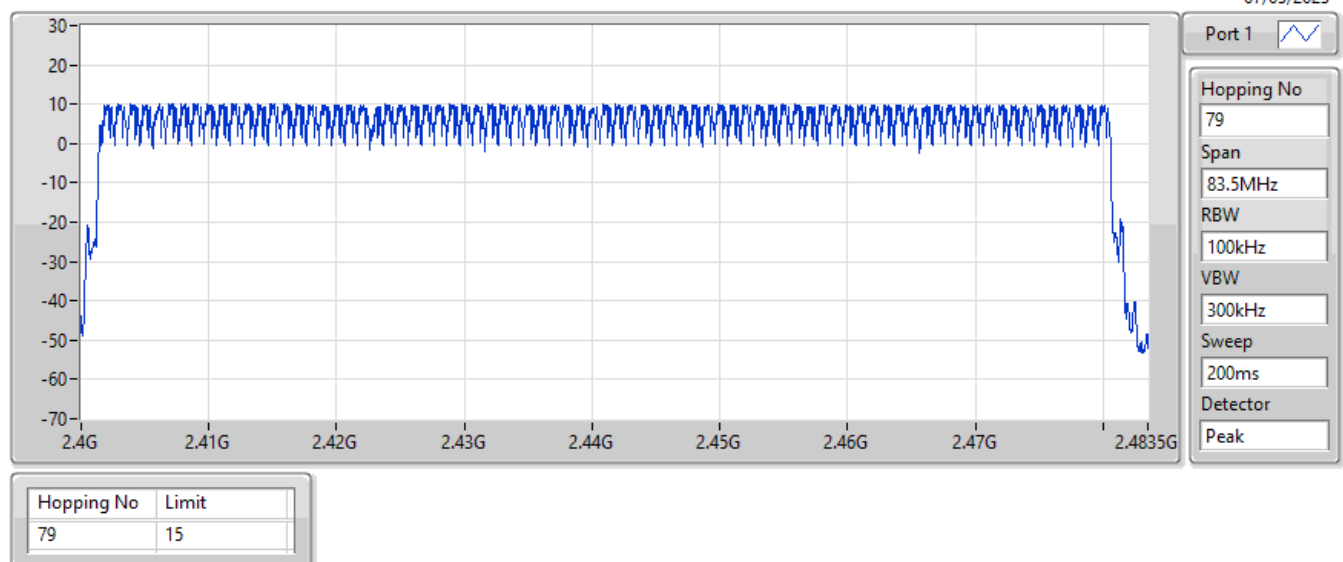


2.4-2.4835GHz_BT-EDR(2Mbps)

2440MHz

Hopping-FS

07/03/2023

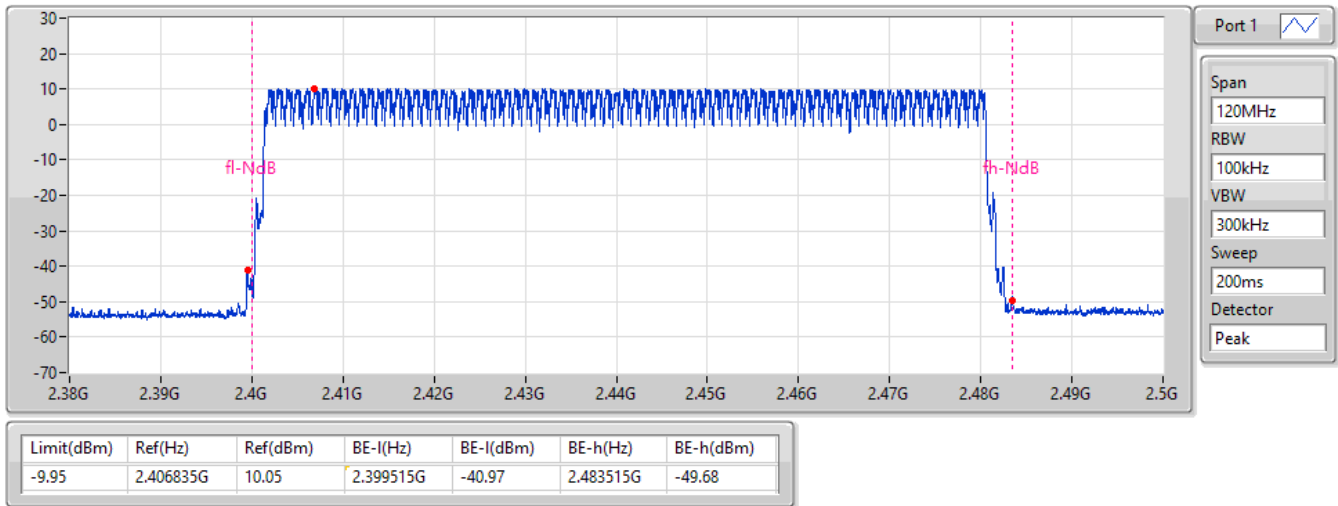


2.4-2.4835GHz_BT-EDR(2Mbps)

2440MHz

Hopping Ch Bandedge (Non-restricted Band)

07/03/2023

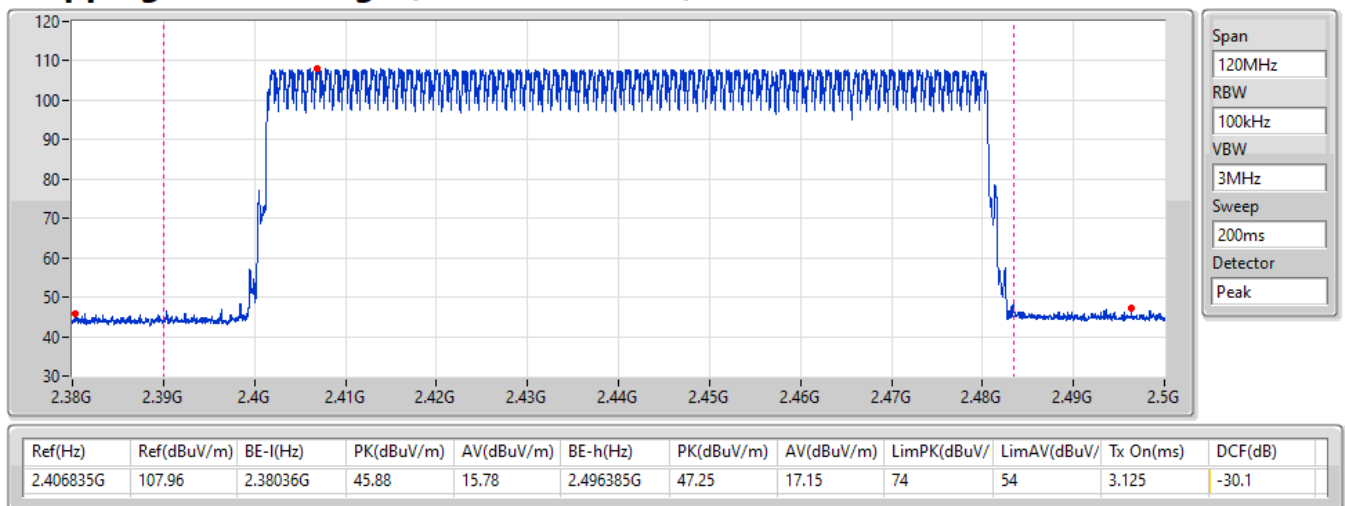


2.4-2.4835GHz_BT-EDR(2Mbps)

2440MHz

Hopping Ch Bandedge (Restricted Band)

07/03/2023

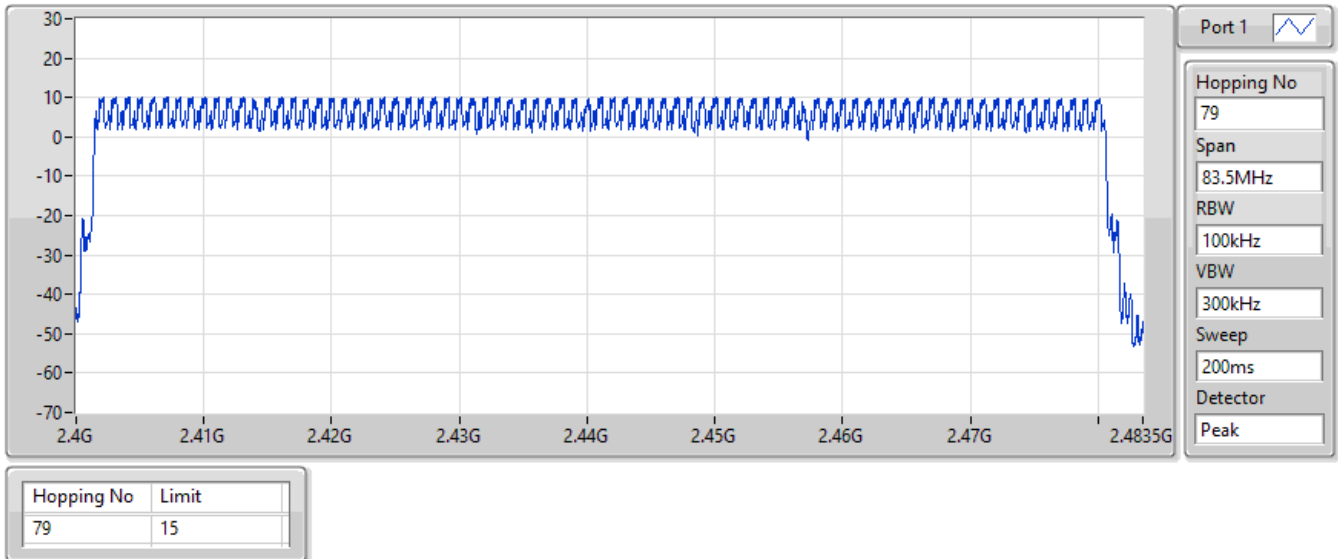


2.4-2.4835GHz_BT-EDR(3Mbps)

Hopping-FS

2440MHz

07/03/2023

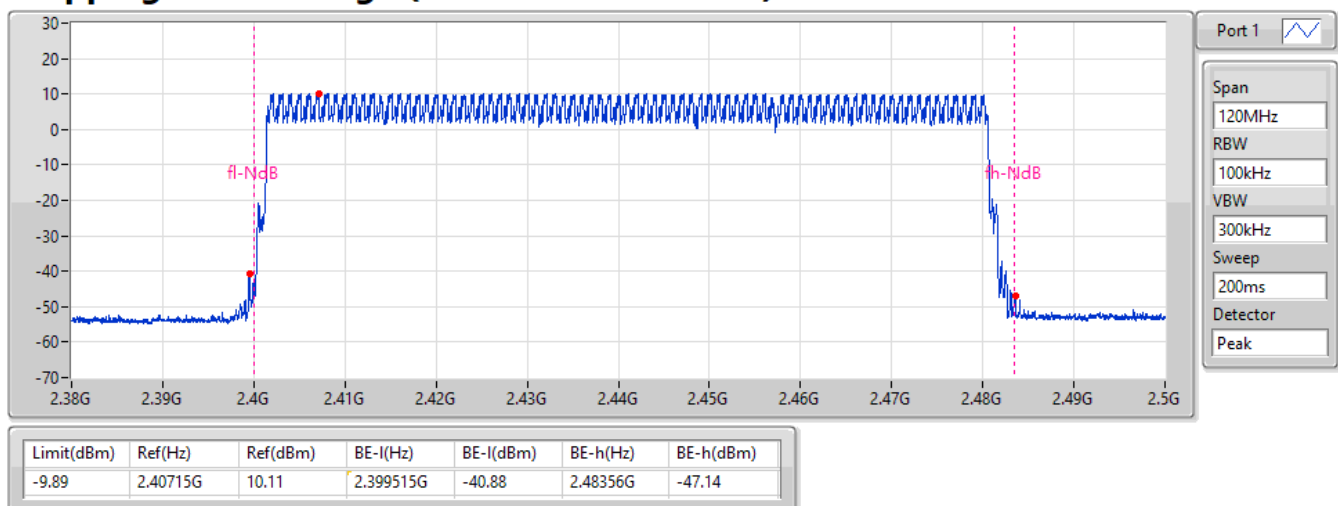


2.4-2.4835GHz_BT-EDR(3Mbps)

2440MHz

Hopping Ch Bandedge (Non-restricted Band)

07/03/2023

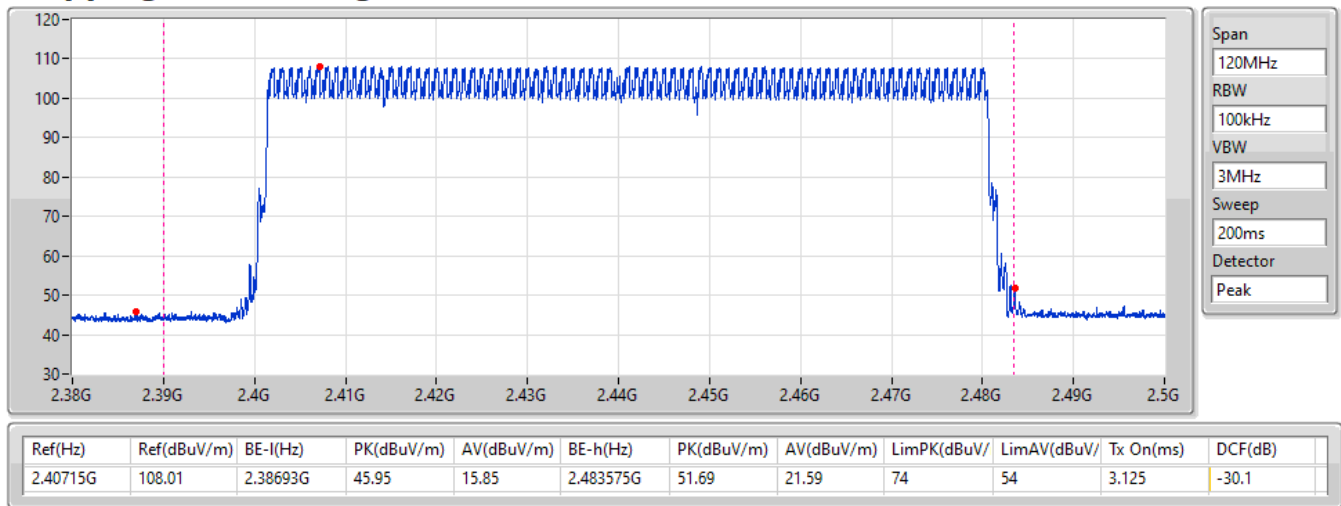


2.4-2.4835GHz_BT-EDR(3Mbps)

2440MHz

Hopping Ch Bandedge (Restricted Band)

07/03/2023





Summary

Mode	Max-Dwell (s)
2.4-2.4835GHz	-
BT-BR(1Mbps)	308.04735m_DH5
BT-EDR(2Mbps)	308.31385m_DH5
BT-EDR(3Mbps)	308.9801m_DH5

Result

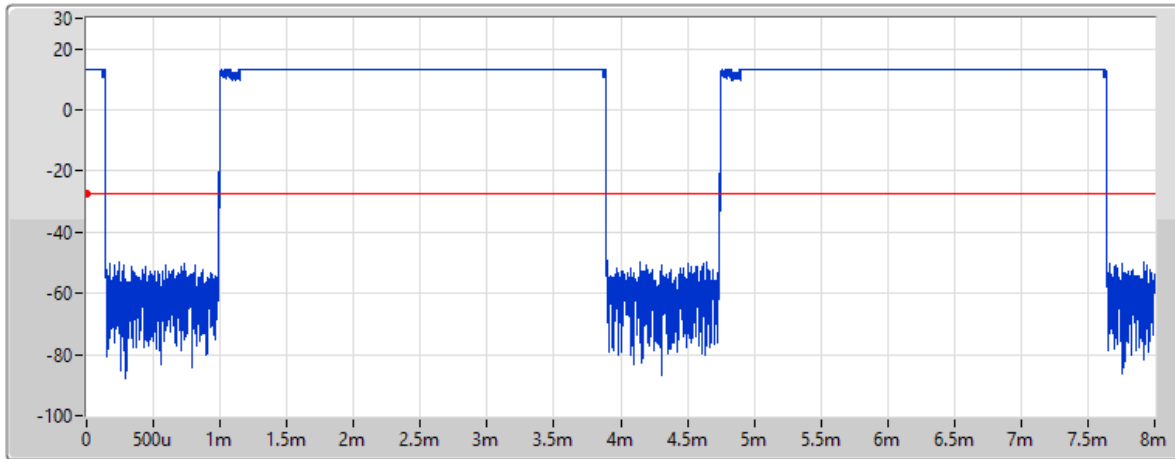
Mode	Result	Period (s)	Dwell (s)	Limit (s)	Tx On (s)
BT-BR(1Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	308.04735m_DH5	400m	2.88975m
2440MHz	Pass	8	154.023675m_DH5-AFH	400m	2.88975m
BT-EDR(2Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	308.31385m_DH5	400m	2.89225m
2440MHz	Pass	8	154.156925m_DH5-AFH	400m	2.89225m
BT-EDR(3Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	308.9801m_DH5	400m	2.8985m
2440MHz	Pass	8	154.2502m_DH5-AFH	400m	2.894m

2.4-2.4835GHz_BT-BR(1Mbps)

Dwell-FS

2440MHz

07/03/2023



Port 1 

Ch Freq
2.44GHz

RBW
300kHz

VBW
1MHz

Sweep Time
8ms

TX Time
2.88975ms

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	308.04735m_DH5	400m	2.88975m

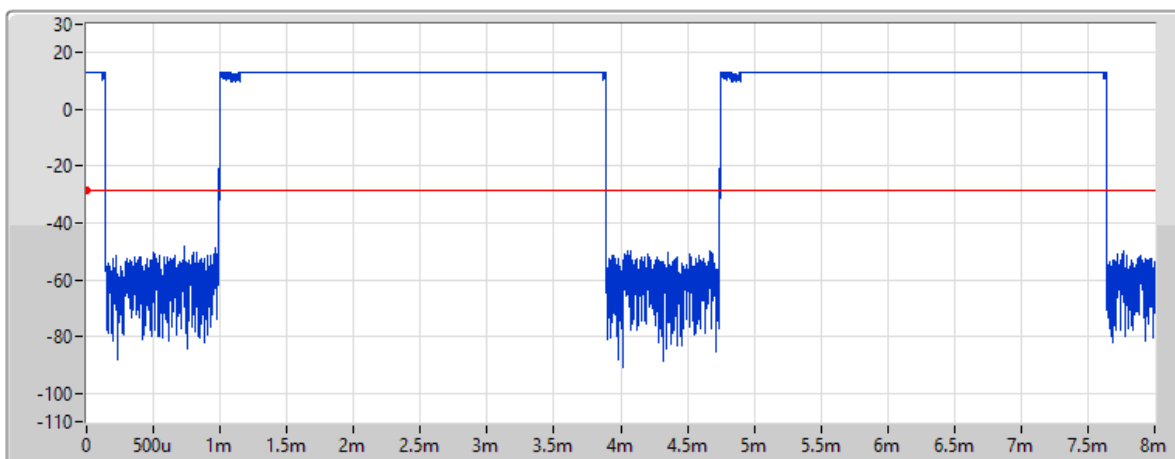
DH5

2.4-2.4835GHz_BT-BR(1Mbps)

Dwell-FS

2440MHz

07/03/2023



Port 1 

Ch Freq
2.44GHz

RBW
300kHz

VBW
1MHz

Sweep Time
8ms

TX Time
2.88975ms

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
8	154.023675m_DH5-AFI	400m	2.88975m

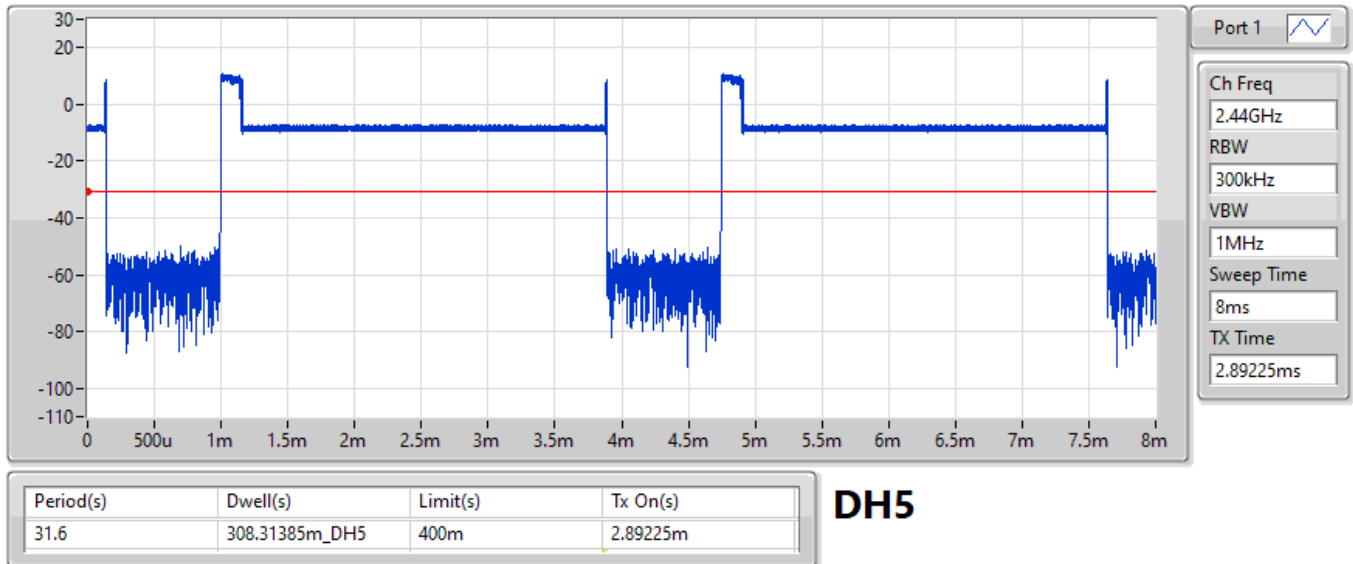
DH5-AFH

2.4-2.4835GHz_BT-EDR(2Mbps)

Dwell-FS

2440MHz

07/03/2023

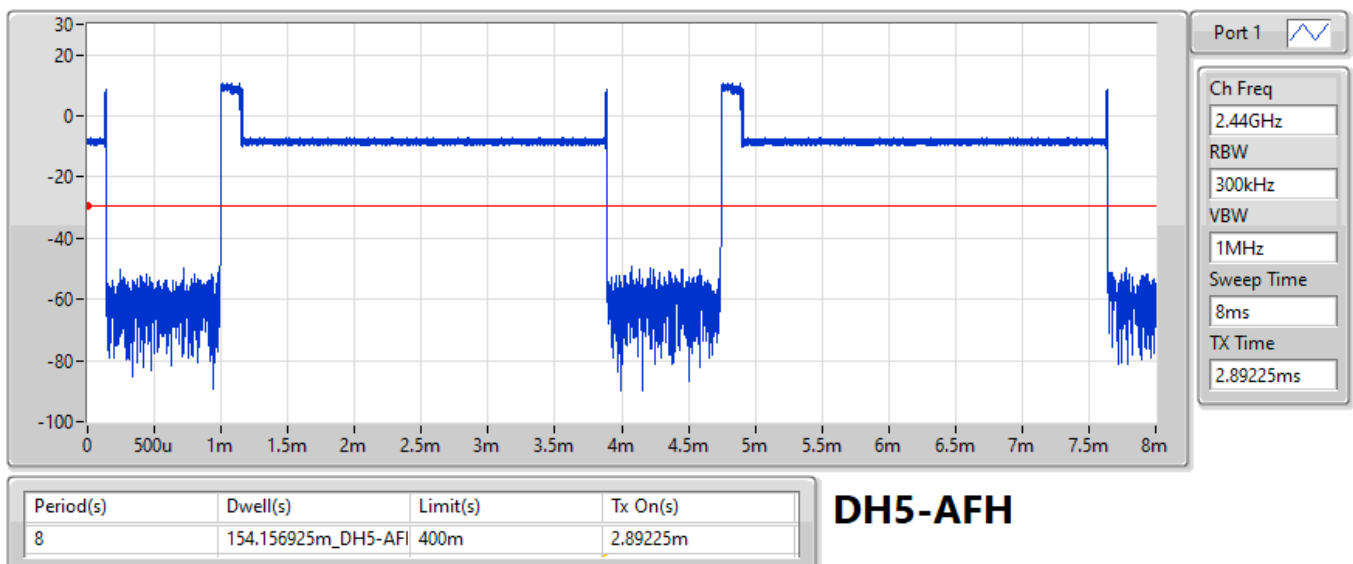


2.4-2.4835GHz_BT-EDR(2Mbps)

Dwell-FS

2440MHz

07/03/2023

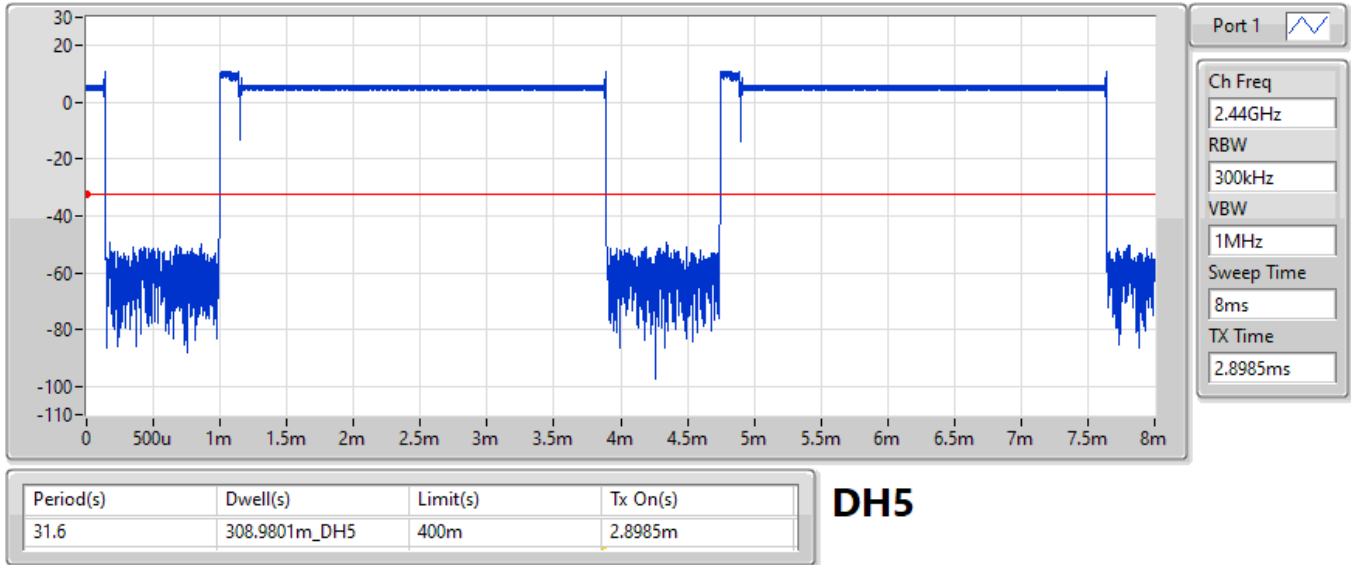


2.4-2.4835GHz_BT-EDR(3Mbps)

Dwell-FS

2440MHz

07/03/2023

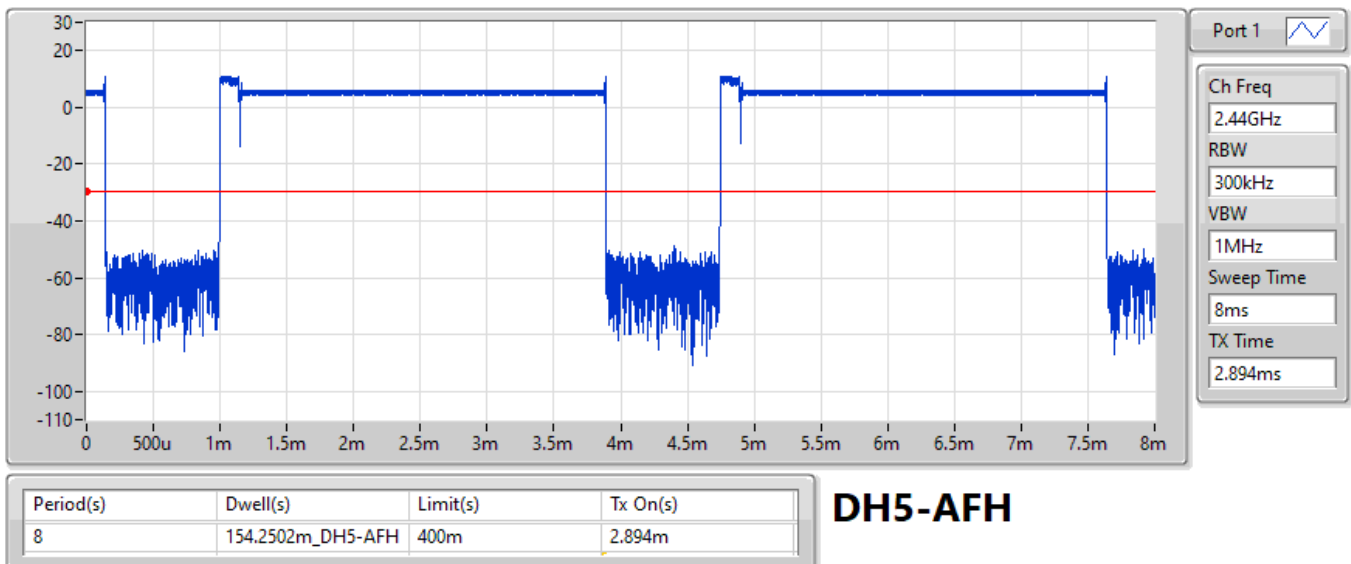


2.4-2.4835GHz_BT-EDR(3Mbps)

Dwell-FS

2440MHz

07/03/2023



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	2.40184G	12.03	-7.97	2.145G	-55.14	2.39988G	-42.71	2.4G	-44.88	2.5003G	-53.34	24.65974G	-41.34	1
BT-EDR(2Mbps)	Pass	2.40184G	9.73	-10.27	2.09095G	-54.70	2.39956G	-41.31	2.4G	-49.27	2.50094G	-52.70	23.27902G	-42.38	1
BT-EDR(3Mbps)	Pass	2.40184G	9.44	-10.56	2.11798G	-54.32	2.39952G	-41.25	2.4G	-46.07	2.50294G	-53.39	15.24214G	-41.64	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	2.40184G	12.03	-7.97	2.145G	-55.14	2.39988G	-42.71	2.4G	-44.88	2.5003G	-53.34	24.65974G	-41.34	1
2440MHz	Pass	2.43991G	11.84	-8.16	2.3048G	-54.59	2.39028G	-53.73	2.4G	-56.40	2.5021G	-52.96	17.59303G	-42.18	1
2480MHz	Pass	2.47999G	11.54	-8.46	821.95M	-55.37	2.39808G	-52.89	2.4G	-55.50	2.50022G	-53.22	24.73567G	-42.31	1
BT-EDR(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40184G	9.73	-10.27	2.09095G	-54.70	2.39956G	-41.31	2.4G	-49.27	2.50094G	-52.70	23.27902G	-42.38	1
2440MHz	Pass	2.44041G	9.16	-10.84	899.5M	-54.94	2.39296G	-53.16	2.4G	-55.43	2.50178G	-52.80	17.00812G	-42.61	1
2480MHz	Pass	2.48016G	9.27	-10.73	2.12385G	-55.00	2.39836G	-52.82	2.4G	-55.89	2.50246G	-52.23	24.0214G	-41.80	1
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40184G	9.44	-10.56	2.11798G	-54.32	2.39952G	-41.25	2.4G	-46.07	2.50294G	-53.39	15.24214G	-41.64	1
2440MHz	Pass	2.43975G	9.16	-10.84	2.3048G	-53.19	2.39708G	-53.68	2.4G	-54.71	2.5001G	-52.68	24.83128G	-41.43	1
2480MHz	Pass	2.48033G	9.13	-10.87	831.35M	-54.77	2.39164G	-53.89	2.4G	-55.89	2.5031G	-53.46	15.23933G	-42.60	1

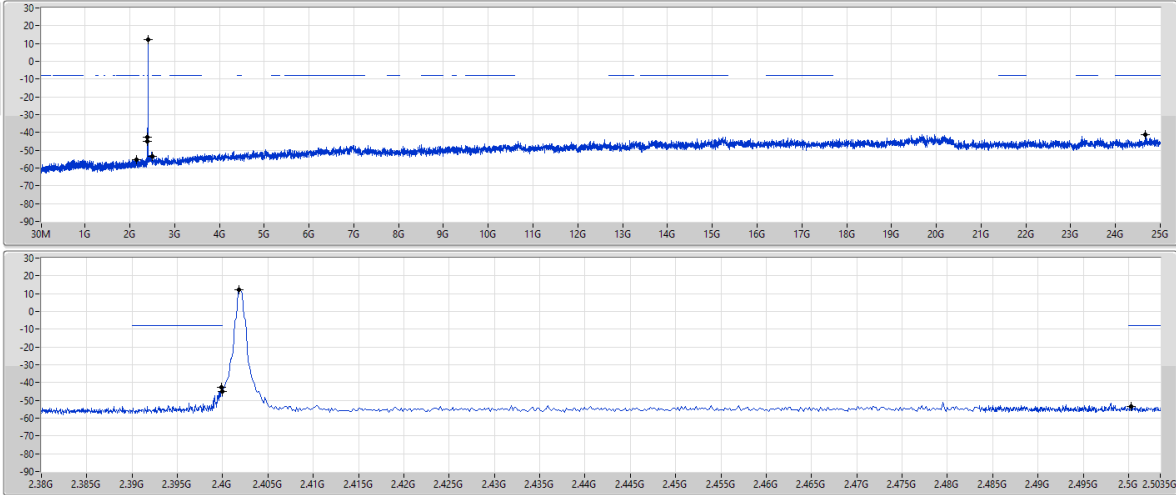
2.4-2.4835GHz_BT-BR(1Mbps)

CSEndB-FS

2402MHz

06/03/2023

RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak



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
2.40184G	12.03	-7.97	2.145G	-55.14	2.39988G	-42.71	2.4G	-44.88	2.5003G	-53.34	2.45974G	-41.34	1

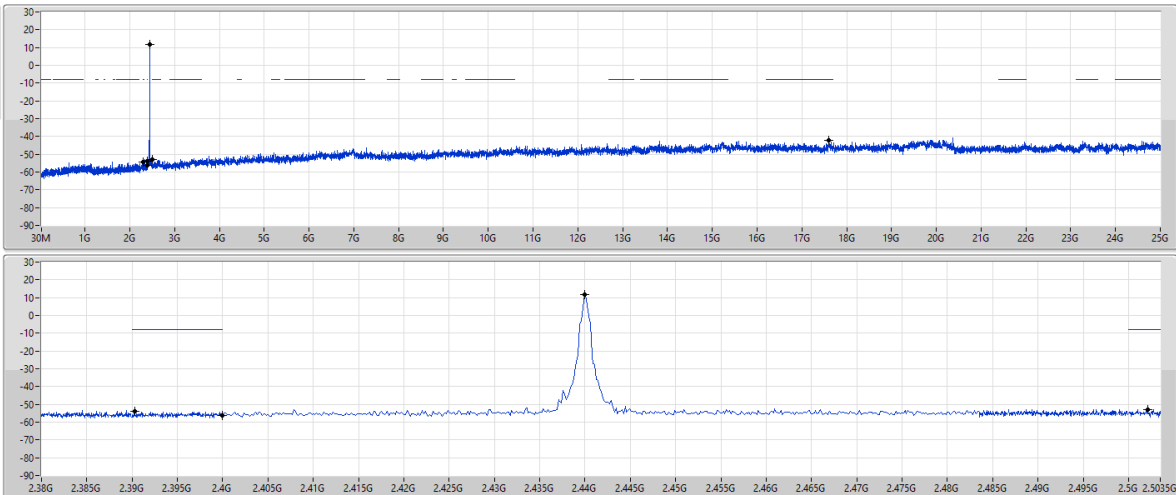
2.4-2.4835GHz_BT-BR(1Mbps)

CSEndB-FS

2440MHz

07/03/2023

RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

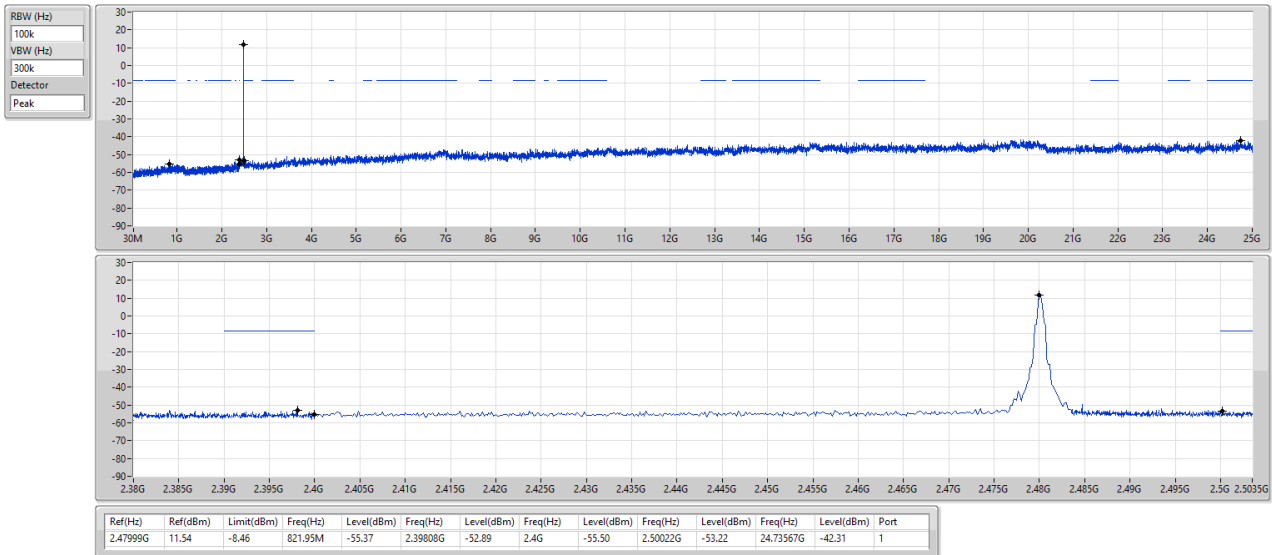


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43991G	11.84	-8.16	2.3048G	-54.59	2.39028G	-53.73	2.4G	-56.40	2.5021G	-52.96	17.59303G	-42.18	1

2.4-2.4835GHz_BT-BR(1Mbps)

CSEndB-FS

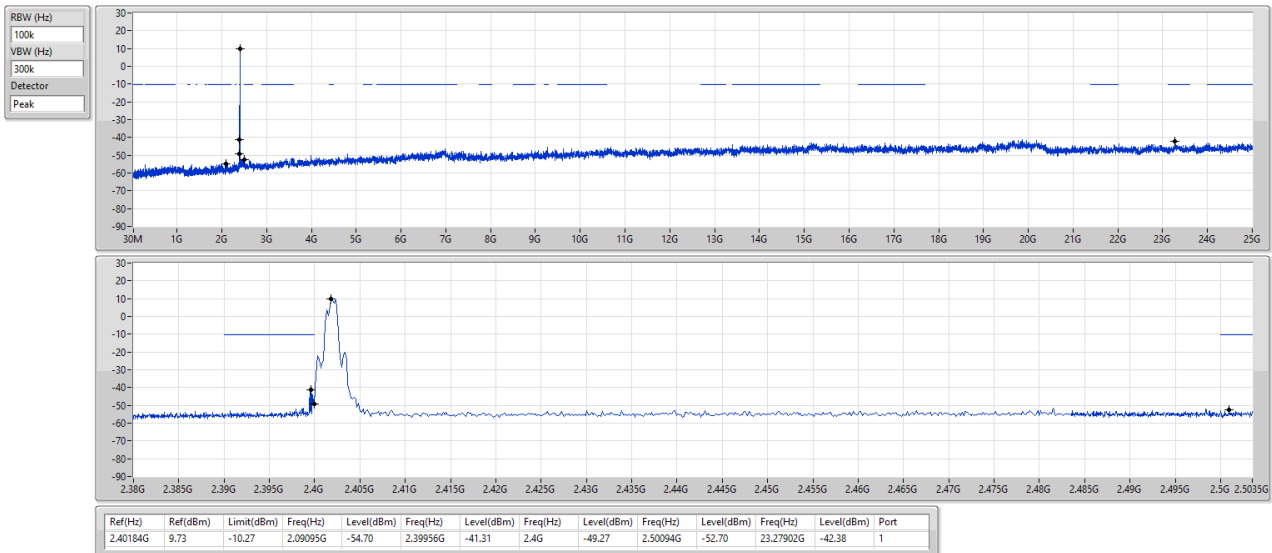
2480MHz



2.4-2.4835GHz_BT-EDR(2Mbps)

CSEndB-FS

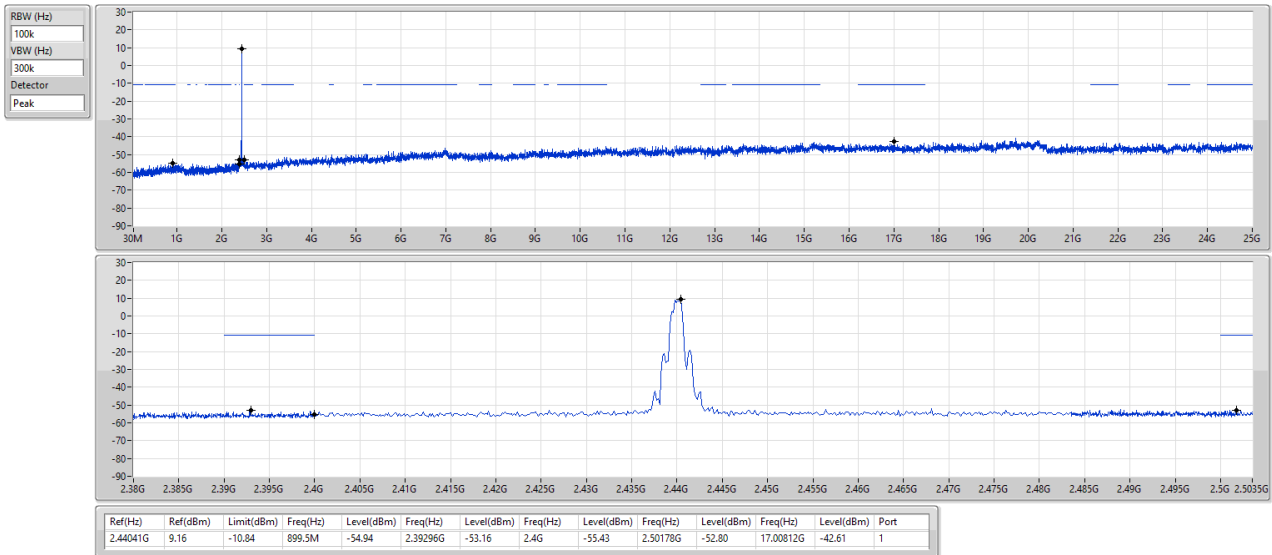
2402MHz



2.4-2.4835GHz_BT-EDR(2Mbps)

CSEndB-FS

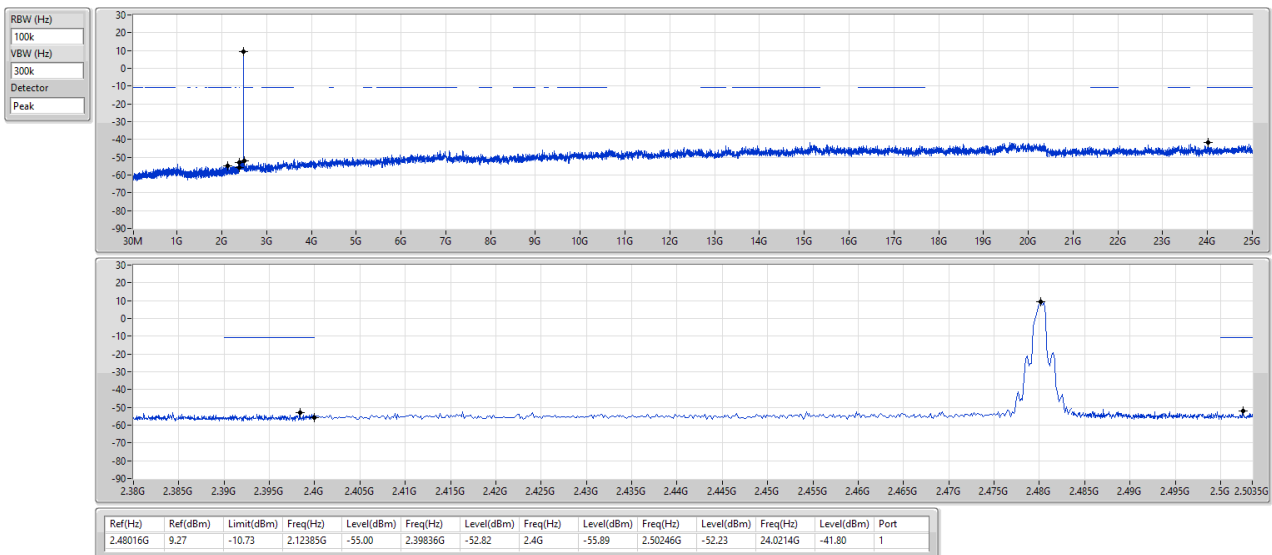
2440MHz



2.4-2.4835GHz_BT-EDR(2Mbps)

CSEndB-FS

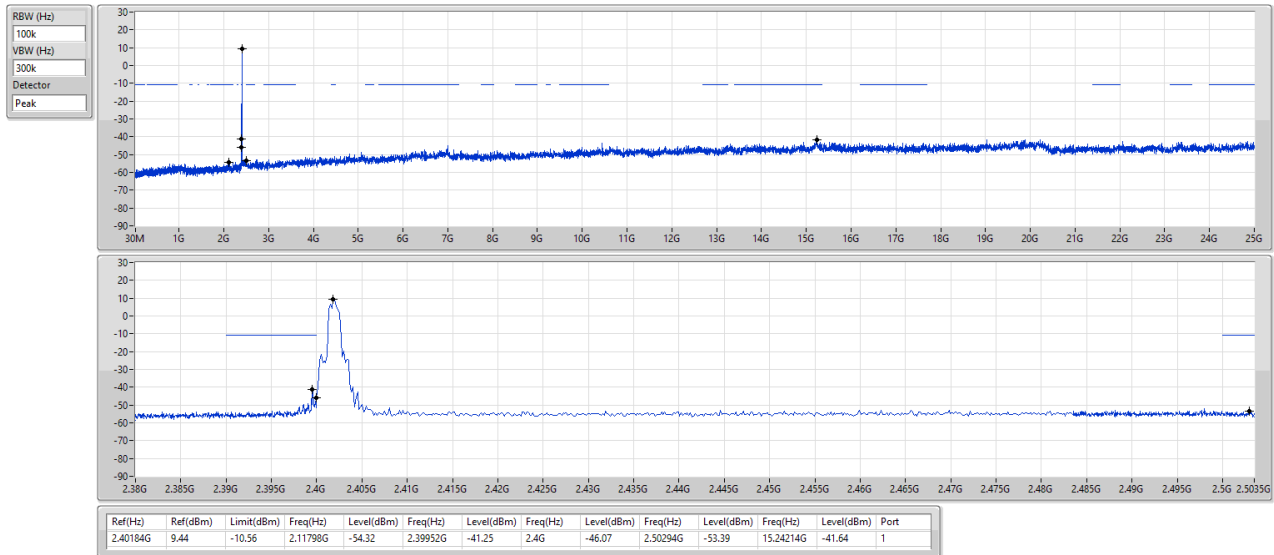
2480MHz



2.4-2.4835GHz_BT-EDR(3Mbps)

CSEndB-FS

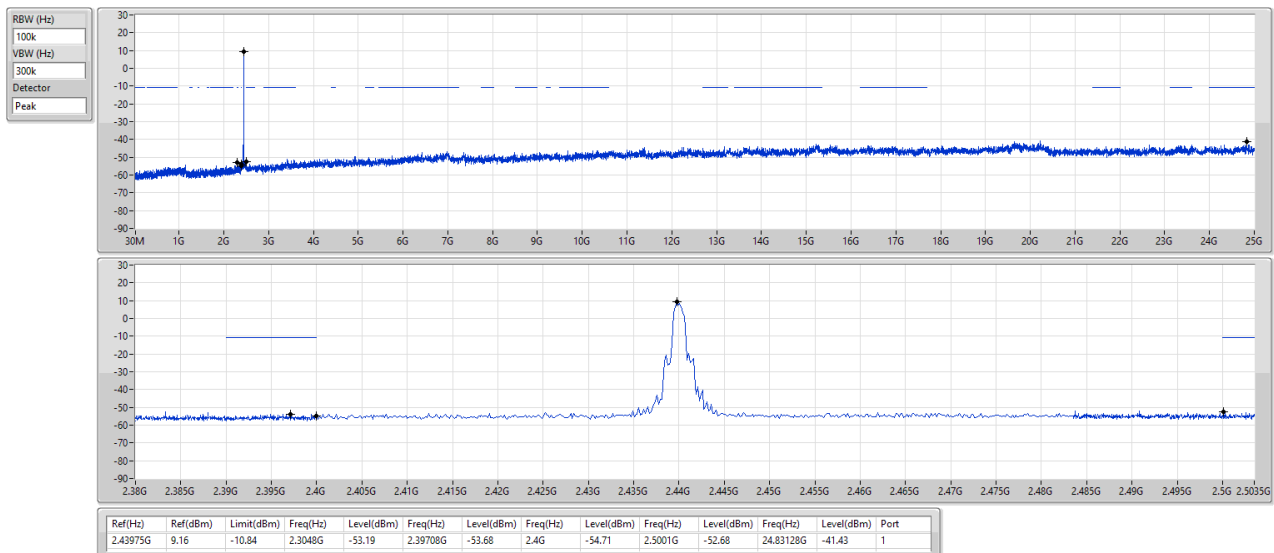
2402MHz



2.4-2.4835GHz_BT-EDR(3Mbps)

CSEndB-FS

2440MHz

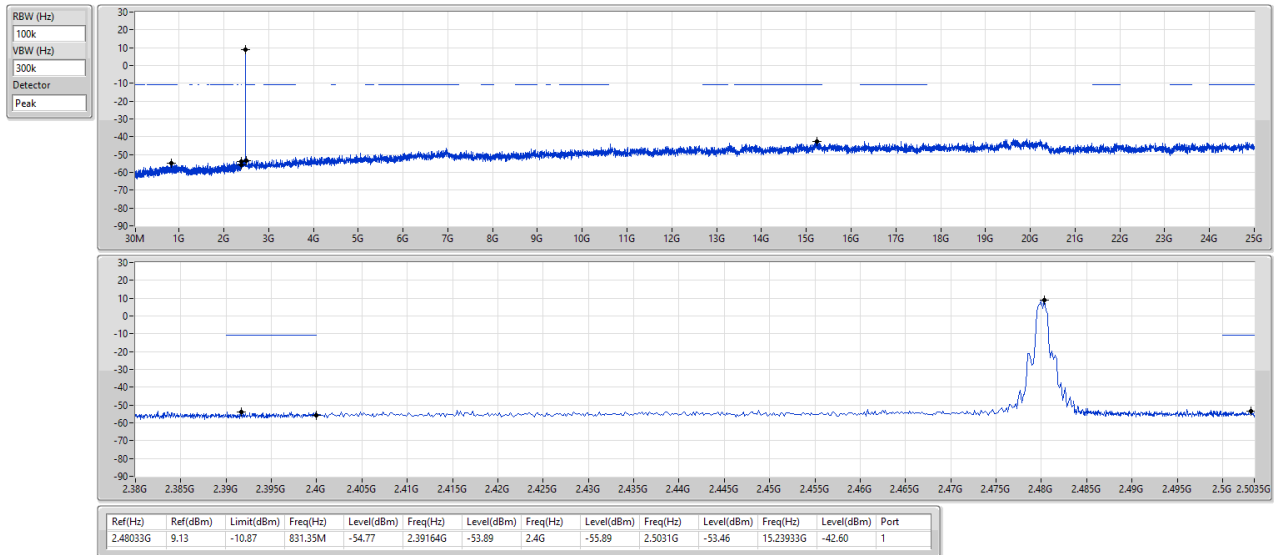


2.4-2.4835GHz_BT-EDR(3Mbps)

CSEndB-FS

2480MHz

07/03/2023





Summary

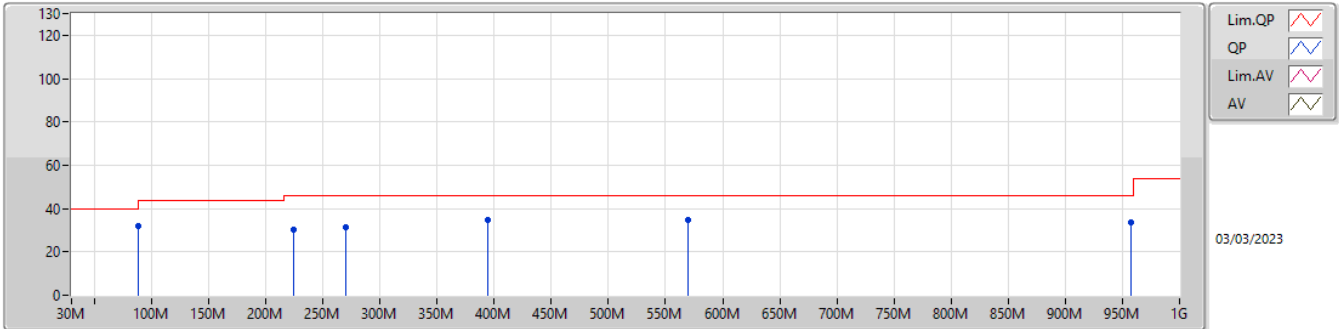
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
BT-BR(1Mbps)	Pass	PK	47.46M	34.27	40.00	-5.73	3	Horizontal	360	1.00

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-
2480MHz	Pass	PK	88.2M	31.84	43.50	-11.66	3	Vertical	0	1.00
2480MHz	Pass	PK	224M	30.53	46.00	-15.47	3	Vertical	0	1.00
2480MHz	Pass	PK	270.56M	31.51	46.00	-14.49	3	Vertical	0	1.00
2480MHz	Pass	PK	394.72M	34.73	46.00	-11.27	3	Vertical	0	1.00
2480MHz	Pass	PK	569.32M	34.80	46.00	-11.20	3	Vertical	0	1.00
2480MHz	Pass	PK	957.32M	33.52	46.00	-12.48	3	Vertical	0	1.00
2480MHz	Pass	PK	47.46M	34.27	40.00	-5.73	3	Horizontal	360	1.00
2480MHz	Pass	PK	109.54M	35.06	43.50	-8.44	3	Horizontal	360	1.00
2480MHz	Pass	PK	256.98M	27.71	46.00	-18.29	3	Horizontal	360	1.00
2480MHz	Pass	PK	344.28M	29.43	46.00	-16.57	3	Horizontal	360	1.00
2480MHz	Pass	PK	575.14M	29.57	46.00	-16.43	3	Horizontal	360	1.00
2480MHz	Pass	PK	749.74M	33.73	46.00	-12.27	3	Horizontal	360	1.00

2.4-2.4835GHz_BT-BR(1Mbps)

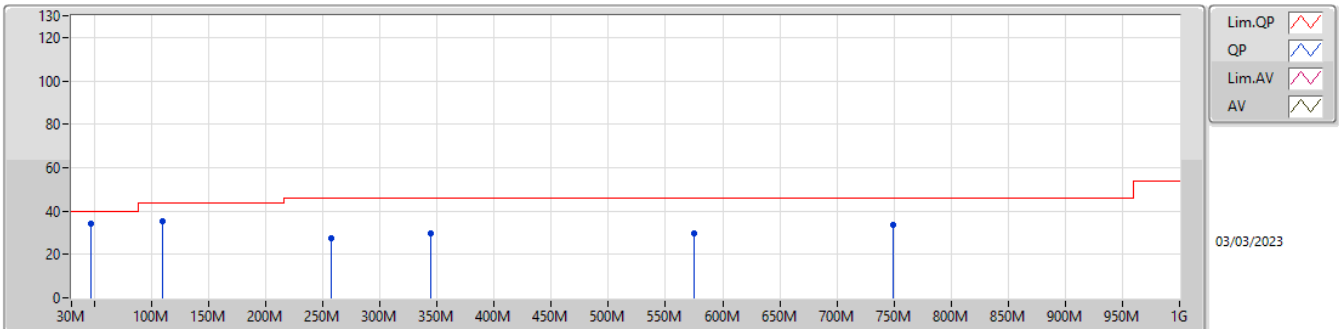
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	88.2M	31.84	43.50	-11.66	-22.00	3	Vertical	0	1.00	53.84	13.69	1.04	36.73
PK	224M	30.53	46.00	-15.47	-20.04	3	Vertical	0	1.00	50.57	14.61	1.72	36.37
PK	270.56M	31.51	46.00	-14.49	-16.36	3	Vertical	0	1.00	47.87	18.16	1.93	36.45
PK	394.72M	34.73	46.00	-11.27	-13.45	3	Vertical	0	1.00	48.18	20.67	2.39	36.51
PK	569.32M	34.80	46.00	-11.20	-9.04	3	Vertical	0	1.00	43.84	25.11	2.96	37.11
PK	957.32M	33.52	46.00	-12.48	-3.31	3	Vertical	0	1.00	36.83	30.08	3.93	37.32

2.4-2.4835GHz_BT-BR(1Mbps)

2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	47.46M	34.27	40.00	-5.73	-21.63	3	Horizontal	360	1.00	55.90	14.76	0.71	37.10
PK	109.54M	35.06	43.50	-8.44	-19.42	3	Horizontal	360	1.00	54.48	16.06	1.15	36.63
PK	256.98M	27.71	46.00	-18.29	-15.83	3	Horizontal	360	1.00	43.54	18.77	1.87	36.47
PK	344.28M	29.43	46.00	-16.57	-14.98	3	Horizontal	360	1.00	44.41	19.33	2.21	36.52
PK	575.14M	29.57	46.00	-16.43	-9.18	3	Horizontal	360	1.00	38.75	24.96	2.97	37.11
PK	749.74M	33.73	46.00	-12.27	-6.73	3	Horizontal	360	1.00	40.46	27.28	3.42	37.43



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	4.80372G	58.91	74.00	-15.09	3	Horizontal	16	1.63	-
BT-EDR(3Mbps)	Pass	PK	2.4836G	57.97	74.00	-16.03	3	Horizontal	66	2.64	-

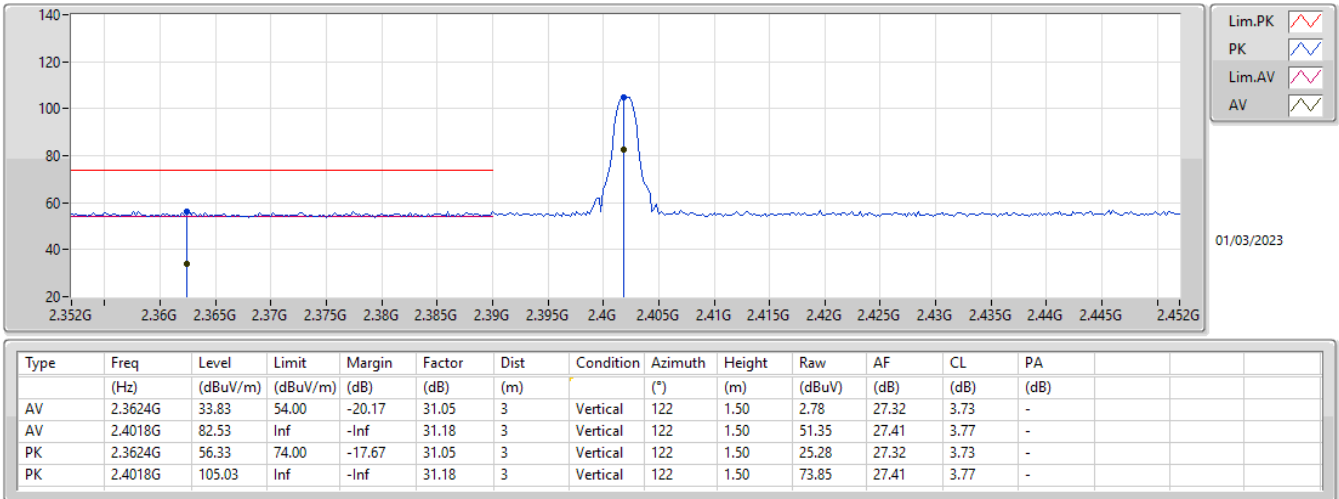
Result

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	2.3624G	33.83	54.00	-20.17	3	Vertical	122	1.50	-
2402MHz	Pass	AV	2.4018G	82.53	Inf	-Inf	3	Vertical	122	1.50	-
2402MHz	Pass	PK	2.3624G	56.33	74.00	-17.67	3	Vertical	122	1.50	-
2402MHz	Pass	PK	2.4018G	105.03	Inf	-Inf	3	Vertical	122	1.50	-
2402MHz	Pass	AV	2.3578G	33.76	54.00	-20.24	3	Horizontal	57	2.74	-
2402MHz	Pass	AV	2.4019G	86.77	Inf	-Inf	3	Horizontal	57	2.74	-
2402MHz	Pass	PK	2.3578G	56.26	74.00	-17.74	3	Horizontal	57	2.74	-
2402MHz	Pass	PK	2.4019G	109.27	Inf	-Inf	3	Horizontal	57	2.74	-
2402MHz	Pass	AV	4.80395G	33.25	54.00	-20.75	3	Vertical	3	2.25	-
2402MHz	Pass	PK	4.80395G	55.75	74.00	-18.25	3	Vertical	3	2.25	-
2402MHz	Pass	AV	4.80372G	36.41	54.00	-17.59	3	Horizontal	16	1.63	-
2402MHz	Pass	PK	4.80372G	58.91	74.00	-15.09	3	Horizontal	16	1.63	-
2440MHz	Pass	AV	2.3596G	34.34	54.00	-19.66	3	Vertical	111	1.30	-
2440MHz	Pass	AV	2.44G	82.53	Inf	-Inf	3	Vertical	111	1.30	-
2440MHz	Pass	AV	2.4904G	34.66	54.00	-19.34	3	Vertical	111	1.30	-
2440MHz	Pass	PK	2.3596G	56.84	74.00	-17.16	3	Vertical	111	1.30	-
2440MHz	Pass	PK	2.44G	105.03	Inf	-Inf	3	Vertical	111	1.30	-
2440MHz	Pass	PK	2.4904G	57.16	74.00	-16.84	3	Vertical	111	1.30	-
2440MHz	Pass	AV	2.3892G	34.79	54.00	-19.21	3	Horizontal	64	2.38	-
2440MHz	Pass	AV	2.4398G	87.19	Inf	-Inf	3	Horizontal	64	2.38	-
2440MHz	Pass	AV	2.4858G	35.42	54.00	-18.58	3	Horizontal	64	2.38	-
2440MHz	Pass	PK	2.3892G	57.29	74.00	-16.71	3	Horizontal	64	2.38	-
2440MHz	Pass	PK	2.4398G	109.69	Inf	-Inf	3	Horizontal	64	2.38	-
2440MHz	Pass	PK	2.4858G	57.92	74.00	-16.08	3	Horizontal	64	2.38	-
2440MHz	Pass	AV	4.88034G	32.41	54.00	-21.59	3	Vertical	0	3.00	-
2440MHz	Pass	PK	4.88034G	54.91	74.00	-19.09	3	Vertical	0	3.00	-
2440MHz	Pass	AV	4.88028G	34.43	54.00	-19.57	3	Horizontal	6	1.61	-
2440MHz	Pass	PK	4.88028G	56.93	74.00	-17.07	3	Horizontal	6	1.61	-
2480MHz	Pass	AV	2.4798G	82.04	Inf	-Inf	3	Vertical	114	1.50	-
2480MHz	Pass	AV	2.4872G	34.49	54.00	-19.51	3	Vertical	114	1.50	-
2480MHz	Pass	PK	2.4798G	104.54	Inf	-Inf	3	Vertical	114	1.50	-
2480MHz	Pass	PK	2.4872G	56.99	74.00	-17.01	3	Vertical	114	1.50	-
2480MHz	Pass	AV	2.4798G	86.71	Inf	-Inf	3	Horizontal	66	2.64	-
2480MHz	Pass	AV	2.4842G	35.17	54.00	-18.83	3	Horizontal	66	2.64	-
2480MHz	Pass	PK	2.4798G	109.21	Inf	-Inf	3	Horizontal	66	2.64	-
2480MHz	Pass	PK	2.4842G	57.67	74.00	-16.33	3	Horizontal	66	2.64	-
2480MHz	Pass	AV	4.96026G	32.21	54.00	-21.79	3	Vertical	1	2.92	-
2480MHz	Pass	PK	4.96026G	54.71	74.00	-19.29	3	Vertical	1	2.92	-
2480MHz	Pass	AV	4.96012G	33.40	54.00	-20.60	3	Horizontal	4	1.62	-
2480MHz	Pass	PK	4.96012G	55.90	74.00	-18.10	3	Horizontal	4	1.62	-
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3788G	34.10	54.00	-19.90	3	Vertical	124	1.50	-
2402MHz	Pass	AV	2.402G	81.12	Inf	-Inf	3	Vertical	124	1.50	-
2402MHz	Pass	PK	2.3788G	56.60	74.00	-17.40	3	Vertical	124	1.50	-
2402MHz	Pass	PK	2.402G	103.62	Inf	-Inf	3	Vertical	124	1.50	-
2402MHz	Pass	PK	2.3868G	56.72	74.00	-17.28	3	Horizontal	60	2.75	-
2402MHz	Pass	PK	2.402G	107.97	Inf	-Inf	3	Horizontal	60	2.75	-
2402MHz	Pass	AV	2.3868G	34.22	54.00	-19.78	3	Horizontal	60	2.75	-
2402MHz	Pass	AV	2.402G	85.47	Inf	-Inf	3	Horizontal	60	2.75	-
2402MHz	Pass	PK	4.8036G	50.40	74.00	-23.60	3	Vertical	2	2.26	-
2402MHz	Pass	AV	4.8036G	27.90	54.00	-26.10	3	Vertical	2	2.26	-
2402MHz	Pass	AV	4.8035G	30.06	54.00	-23.94	3	Horizontal	15	1.63	-
2402MHz	Pass	PK	4.8035G	52.56	74.00	-21.44	3	Horizontal	15	1.63	-
2440MHz	Pass	AV	2.3756G	34.04	54.00	-19.96	3	Vertical	113	1.30	-
2440MHz	Pass	AV	2.44G	81.11	Inf	-Inf	3	Vertical	113	1.30	-
2440MHz	Pass	AV	2.4964G	34.51	54.00	-19.49	3	Vertical	113	1.30	-
2440MHz	Pass	PK	2.3756G	56.54	74.00	-17.46	3	Vertical	113	1.30	-
2440MHz	Pass	PK	2.44G	103.61	Inf	-Inf	3	Vertical	113	1.30	-
2440MHz	Pass	PK	2.4964G	57.01	74.00	-16.99	3	Vertical	113	1.30	-
2440MHz	Pass	AV	2.3824G	33.79	54.00	-20.21	3	Horizontal	64	2.38	-

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	85.83	Inf	-Inf	3	Horizontal	64	2.38	-
2440MHz	Pass	AV	2.4884G	34.53	54.00	-19.47	3	Horizontal	64	2.38	-
2440MHz	Pass	PK	2.3824G	56.29	74.00	-17.71	3	Horizontal	64	2.38	-
2440MHz	Pass	PK	2.44G	108.33	Inf	-Inf	3	Horizontal	64	2.38	-
2440MHz	Pass	PK	2.4884G	57.03	74.00	-16.97	3	Horizontal	64	2.38	-
2440MHz	Pass	AV	4.87978G	26.58	54.00	-27.42	3	Vertical	0	2.98	-
2440MHz	Pass	PK	4.87978G	49.08	74.00	-24.92	3	Vertical	0	2.98	-
2440MHz	Pass	AV	4.88002G	28.07	54.00	-25.93	3	Horizontal	2	1.60	-
2440MHz	Pass	PK	4.88002G	50.57	74.00	-23.43	3	Horizontal	2	1.60	-
2480MHz	Pass	AV	2.48G	80.85	Inf	-Inf	3	Vertical	114	1.50	-
2480MHz	Pass	AV	2.4835G	34.34	54.00	-19.66	3	Vertical	114	1.50	-
2480MHz	Pass	PK	2.48G	103.35	Inf	-Inf	3	Vertical	114	1.50	-
2480MHz	Pass	PK	2.4835G	56.84	74.00	-17.16	3	Vertical	114	1.50	-
2480MHz	Pass	AV	2.48G	85.47	Inf	-Inf	3	Horizontal	66	2.64	-
2480MHz	Pass	AV	2.4836G	35.47	54.00	-18.53	3	Horizontal	66	2.64	-
2480MHz	Pass	PK	2.48G	107.97	Inf	-Inf	3	Horizontal	66	2.64	-
2480MHz	Pass	PK	2.4836G	57.97	74.00	-16.03	3	Horizontal	66	2.64	-
2480MHz	Pass	AV	4.95962G	26.36	54.00	-27.64	3	Vertical	1	2.93	-
2480MHz	Pass	PK	4.95962G	48.86	74.00	-25.14	3	Vertical	1	2.93	-
2480MHz	Pass	AV	4.95978G	27.12	54.00	-26.88	3	Horizontal	3	1.80	-
2480MHz	Pass	PK	4.95978G	49.62	74.00	-24.38	3	Horizontal	3	1.80	-

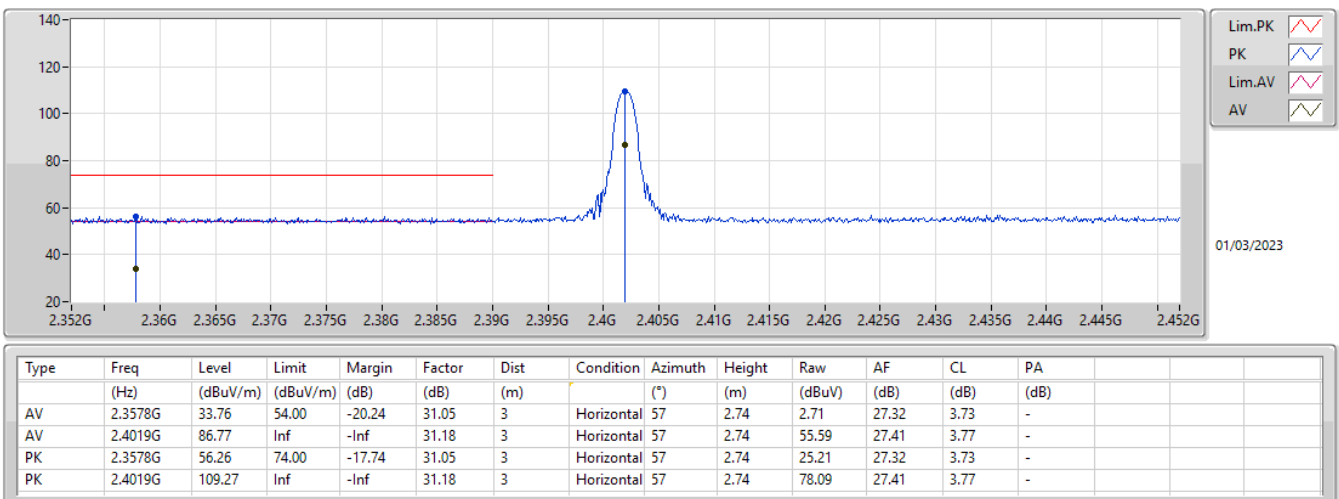
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2402MHz_TX



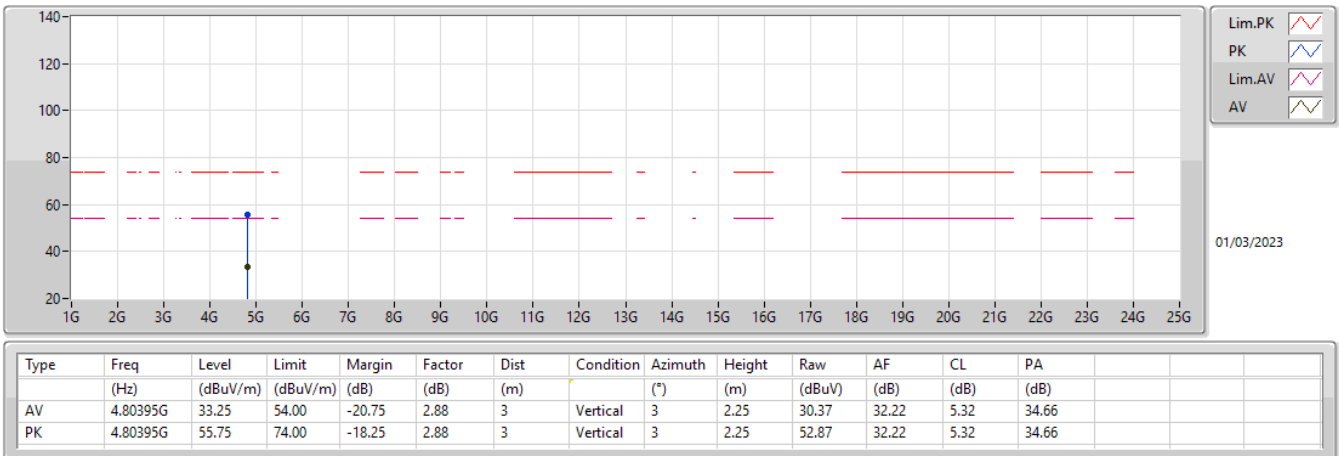
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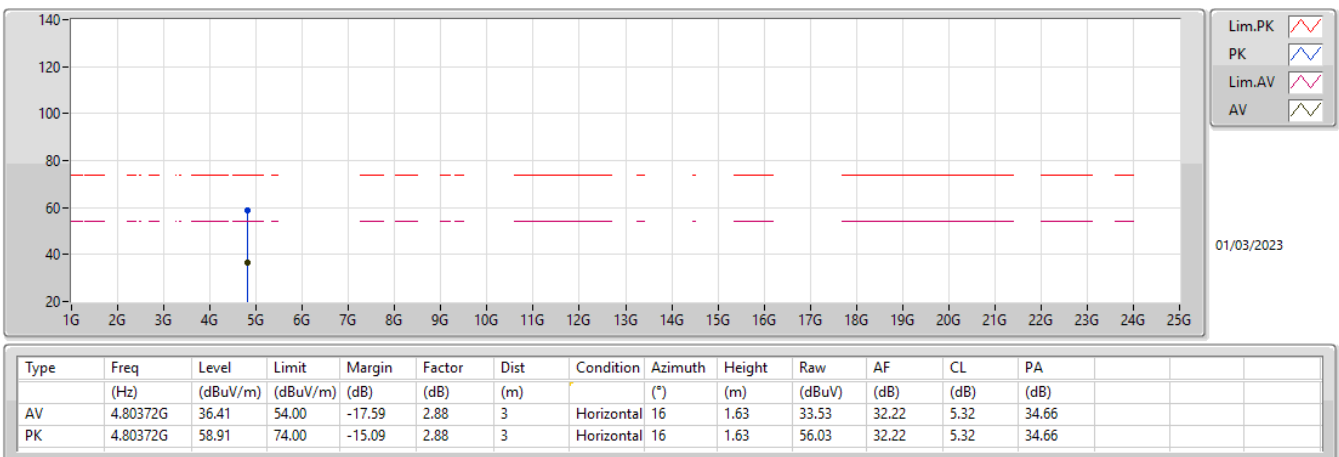
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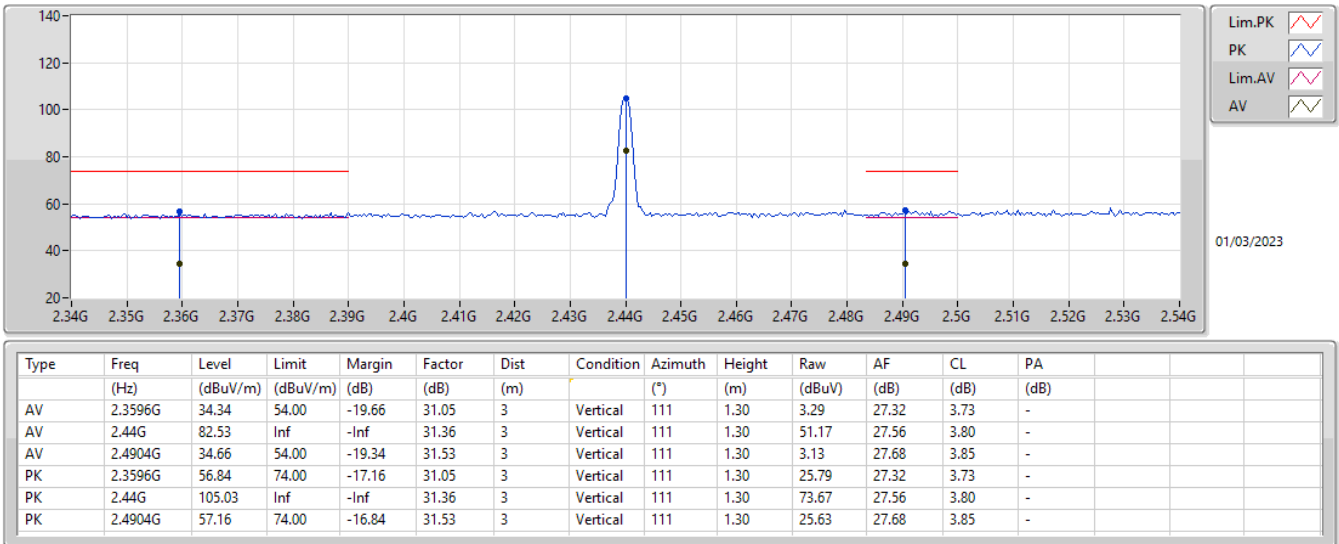
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2402MHz_TX



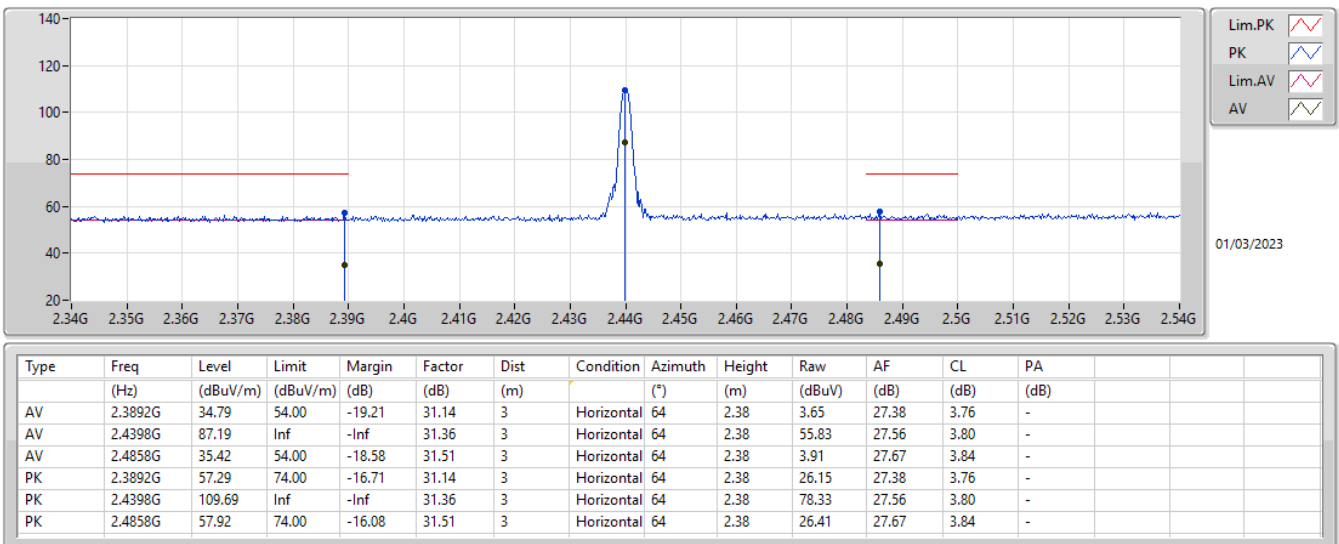
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2440MHz_TX



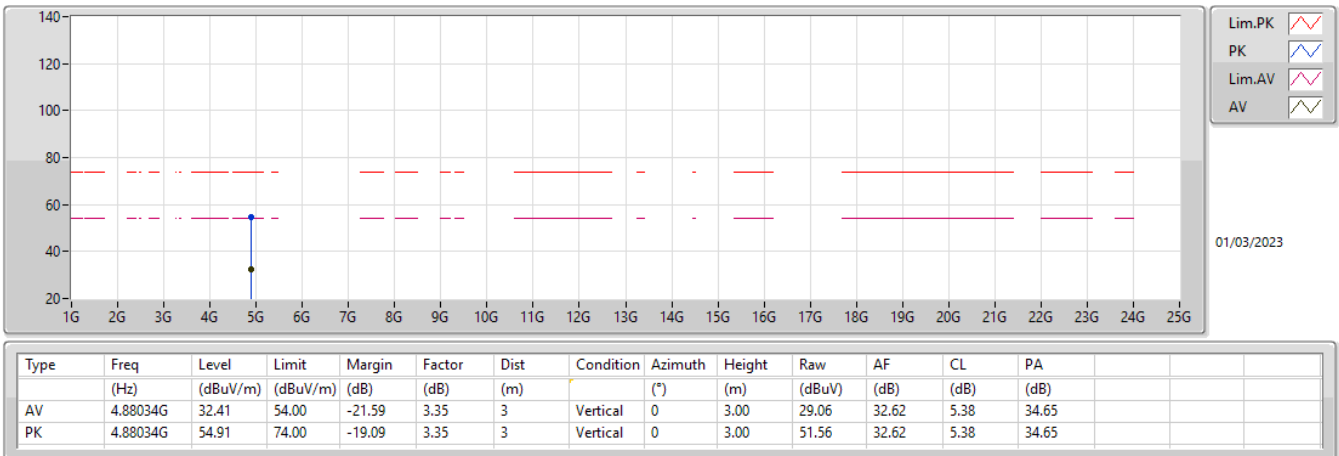
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2440MHz_TX



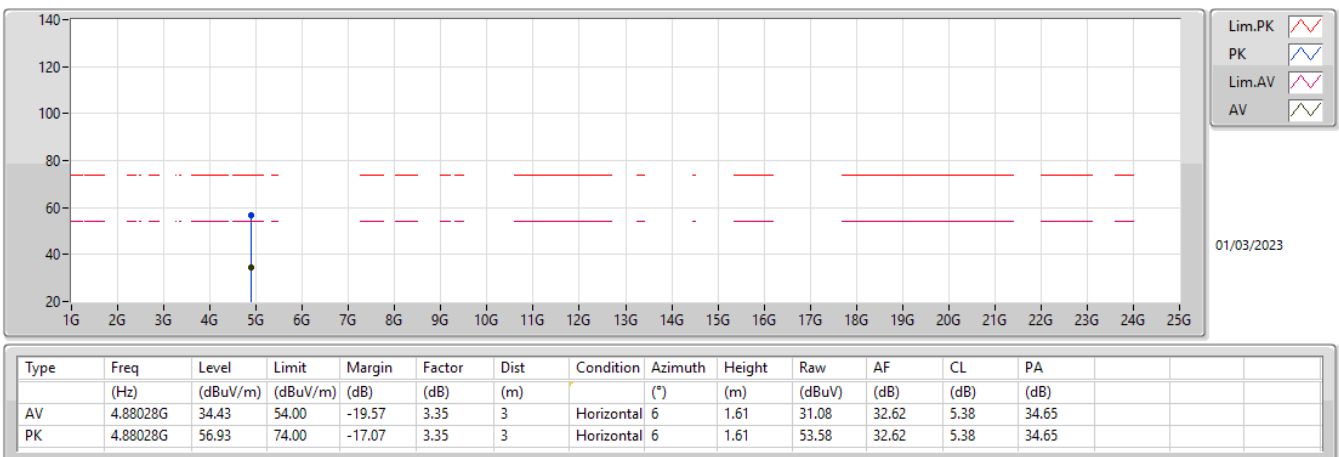
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2440MHz_TX



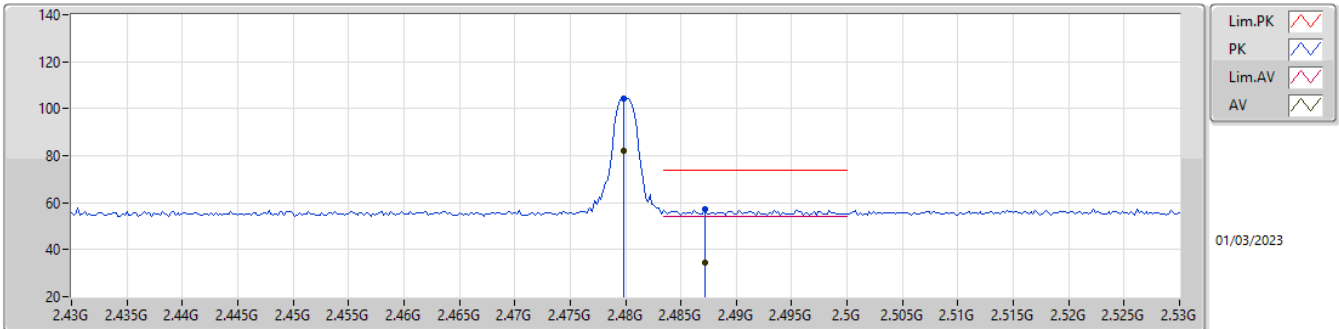
2.4-2.4835GHz_BT-BR(1Mbps)

2440MHz_TX



2.4-2.4835GHz_BT-BR(1Mbps)

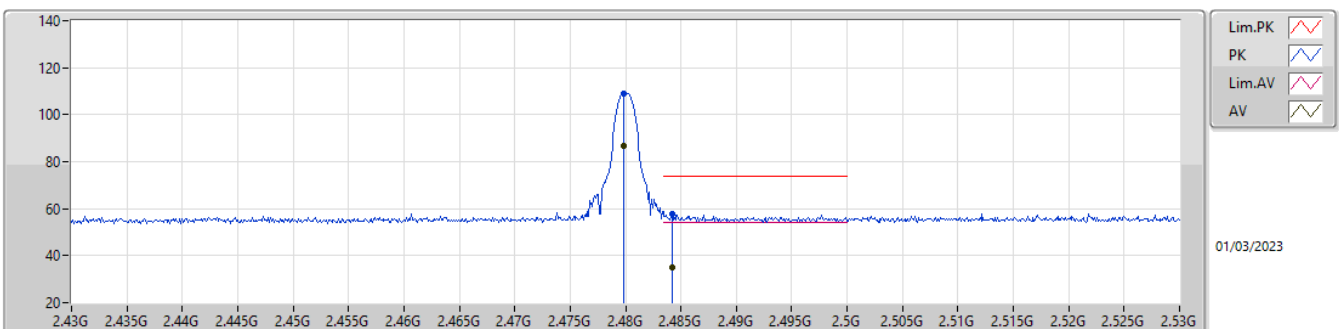
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.4798G	82.04	Inf	-Inf	31.50	3	Vertical	114	1.50	50.54	27.66	3.84	-
AV	2.4872G	34.49	54.00	-19.51	31.51	3	Vertical	114	1.50	2.98	27.67	3.84	-
PK	2.4798G	104.54	Inf	-Inf	31.50	3	Vertical	114	1.50	73.04	27.66	3.84	-
PK	2.4872G	56.99	74.00	-17.01	31.51	3	Vertical	114	1.50	25.48	27.67	3.84	-

2.4-2.4835GHz_BT-BR(1Mbps)

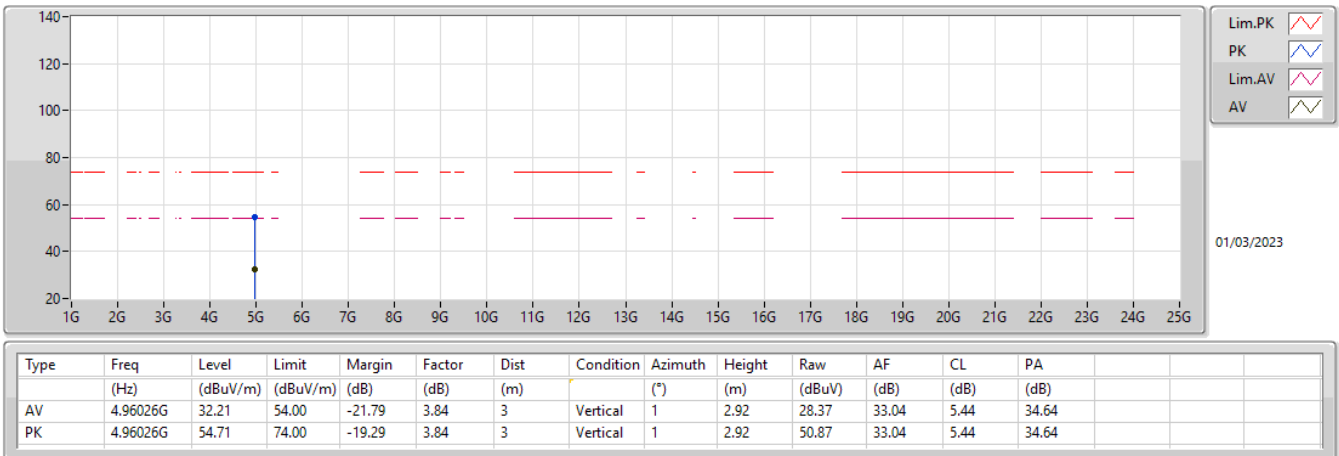
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.4798G	86.71	Inf	-Inf	31.50	3	Horizontal	66	2.64	55.21	27.66	3.84	-
AV	2.4842G	35.17	54.00	-18.83	31.51	3	Horizontal	66	2.64	3.66	27.67	3.84	-
PK	2.4798G	109.21	Inf	-Inf	31.50	3	Horizontal	66	2.64	77.71	27.66	3.84	-
PK	2.4842G	57.67	74.00	-16.33	31.51	3	Horizontal	66	2.64	26.16	27.67	3.84	-

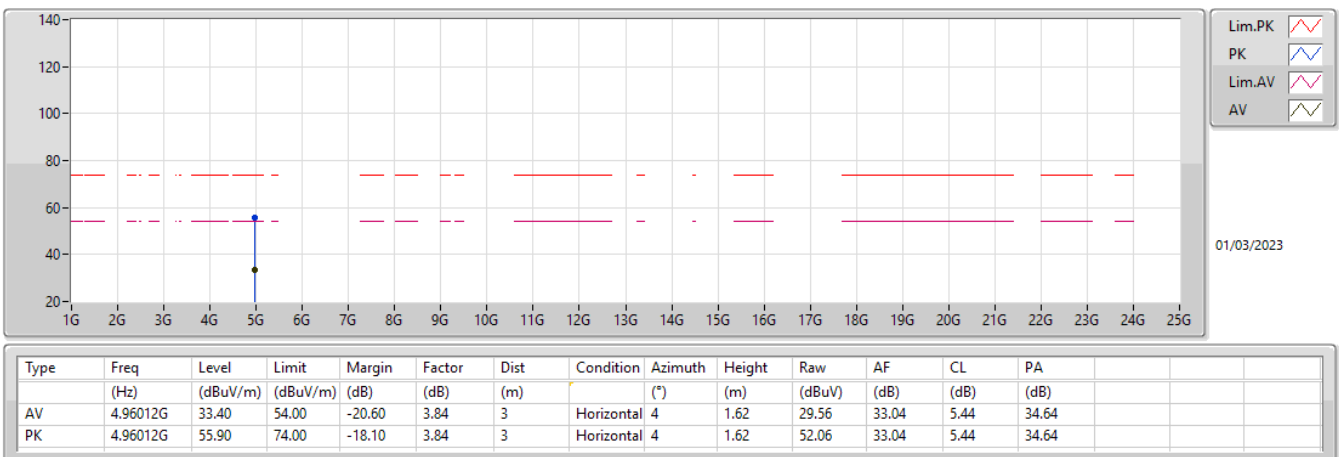
2.4-2.4835GHz_BT-BR(1Mbps)

2480MHz_TX



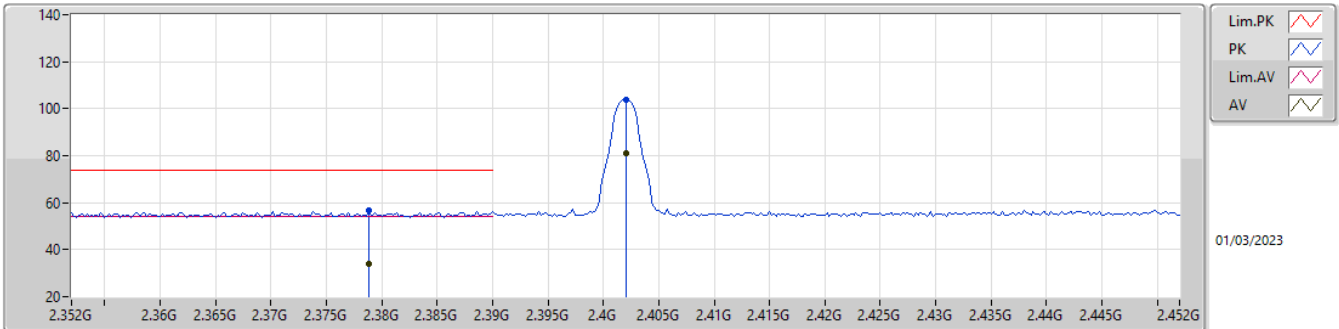
2.4-2.4835GHz_BT-BR(1Mbps)

2480MHz_TX



2.4-2.4835GHz_BT-EDR(3Mbps)

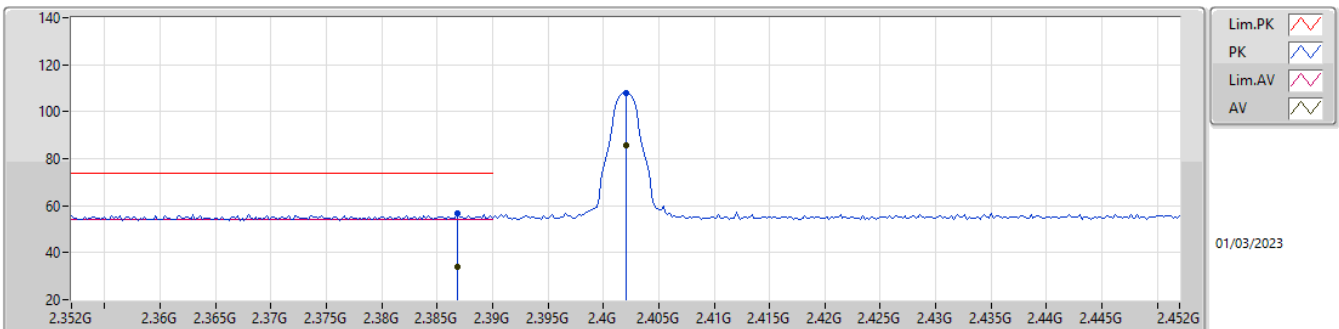
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3788G	34.10	54.00	-19.90	31.11	3	Vertical	124	1.50	2.99	27.36	3.75	-
AV	2.402G	81.12	Inf	-Inf	31.18	3	Vertical	124	1.50	49.94	27.41	3.77	-
PK	2.3788G	56.60	74.00	-17.40	31.11	3	Vertical	124	1.50	25.49	27.36	3.75	-
PK	2.402G	103.62	Inf	-Inf	31.18	3	Vertical	124	1.50	72.44	27.41	3.77	-

2.4-2.4835GHz_BT-EDR(3Mbps)

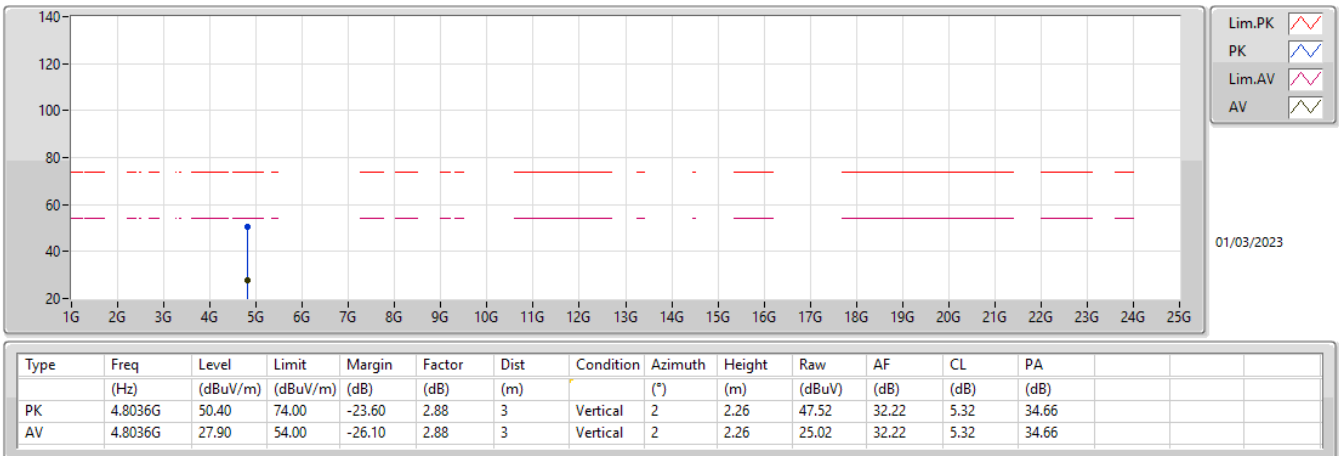
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	2.3868G	56.72	74.00	-17.28	31.13	3	Horizontal	60	2.75	25.59	27.37	3.76	-
PK	2.402G	107.97	Inf	-Inf	31.18	3	Horizontal	60	2.75	76.79	27.41	3.77	-
AV	2.3868G	34.22	54.00	-19.78	31.13	3	Horizontal	60	2.75	3.09	27.37	3.76	-
AV	2.402G	85.47	Inf	-Inf	31.18	3	Horizontal	60	2.75	54.29	27.41	3.77	-

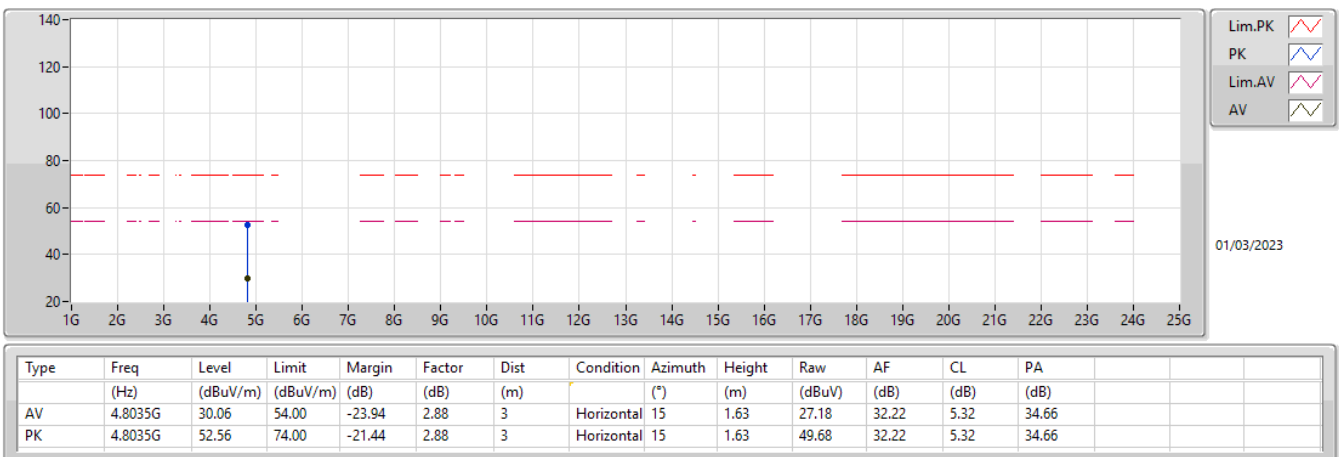
2.4-2.4835GHz_BT-EDR(3Mbps)

2402MHz_TX



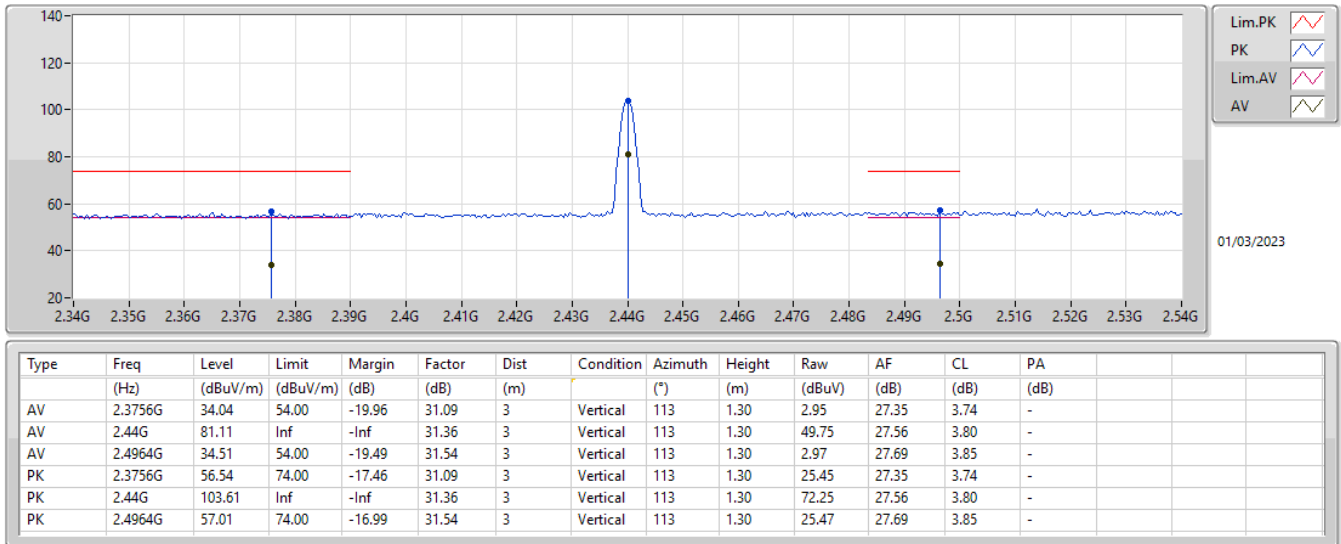
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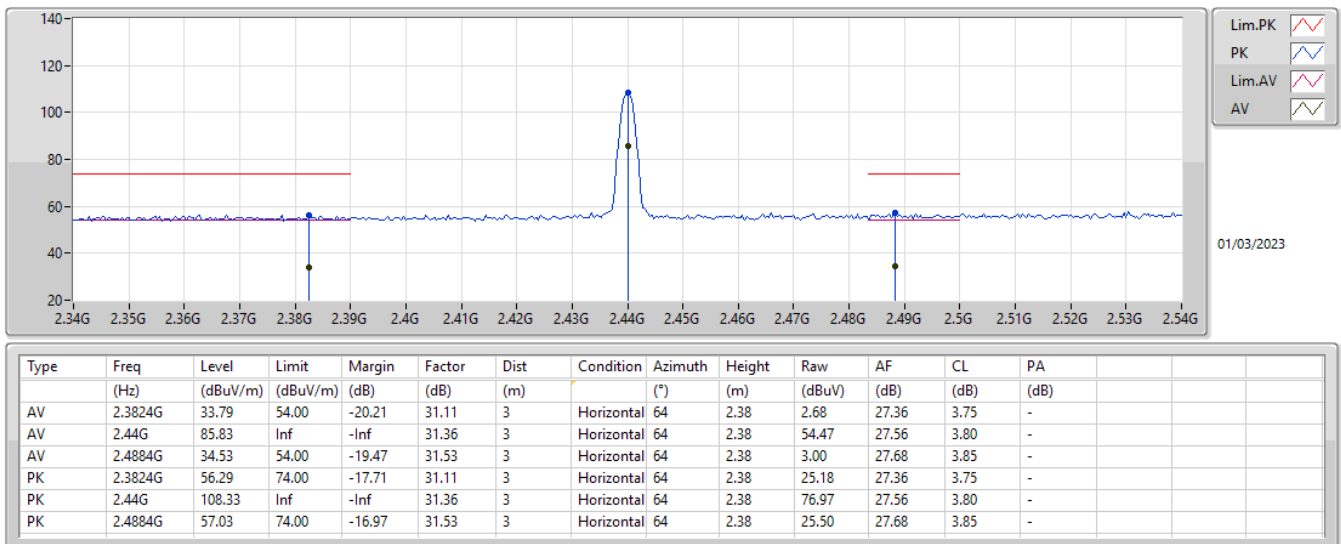
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2440MHz_TX



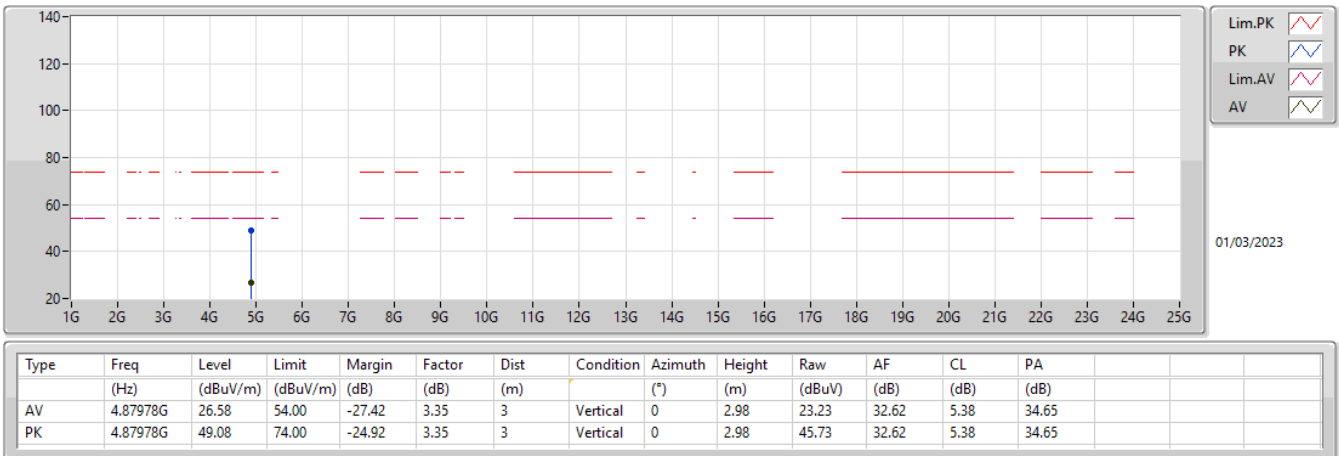
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2440MHz_TX



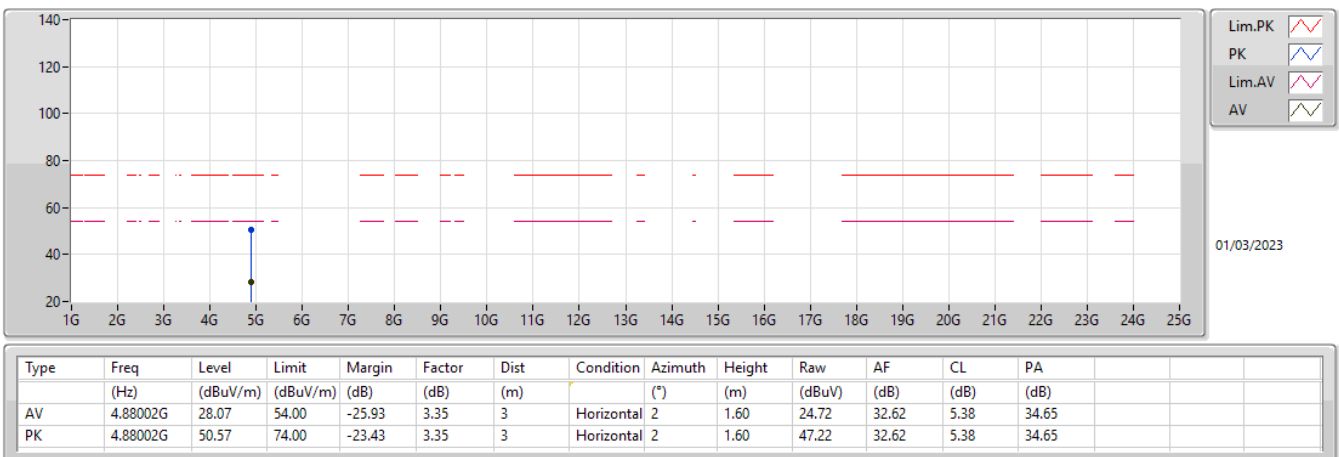
2.4-2.4835GHz_BT-EDR(3Mbps)

2440MHz_TX



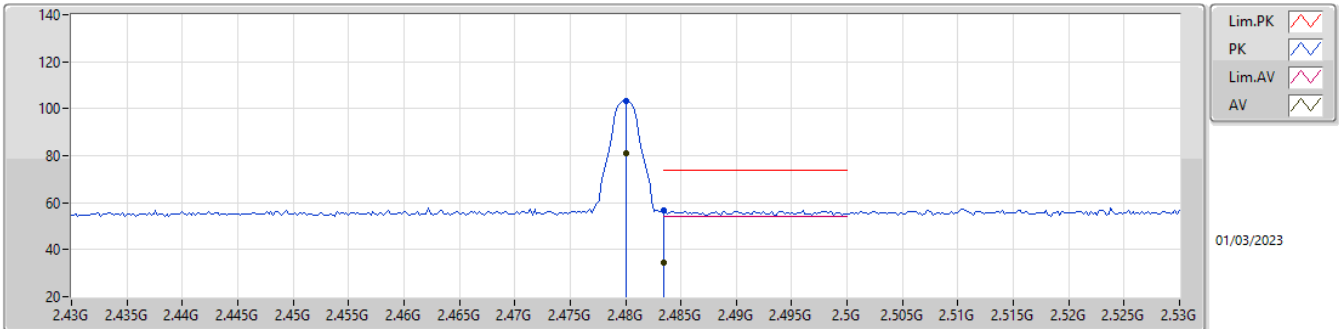
2.4-2.4835GHz_BT-EDR(3Mbps)

2440MHz_TX



2.4-2.4835GHz_BT-EDR(3Mbps)

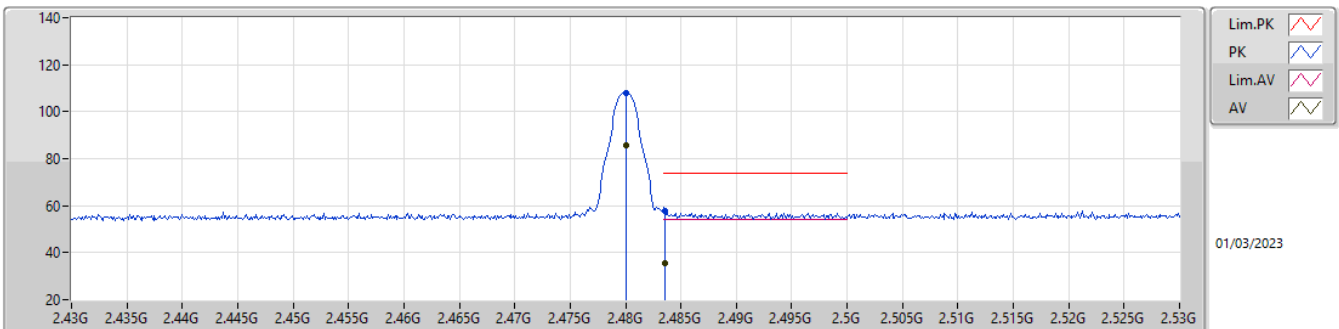
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.48G	80.85	Inf	-Inf	31.50	3	Vertical	114	1.50	49.35	27.66	3.84	-
AV	2.4835G	34.34	54.00	-19.66	31.51	3	Vertical	114	1.50	2.83	27.67	3.84	-
PK	2.48G	103.35	Inf	-Inf	31.50	3	Vertical	114	1.50	71.85	27.66	3.84	-
PK	2.4835G	56.84	74.00	-17.16	31.51	3	Vertical	114	1.50	25.33	27.67	3.84	-

2.4-2.4835GHz_BT-EDR(3Mbps)

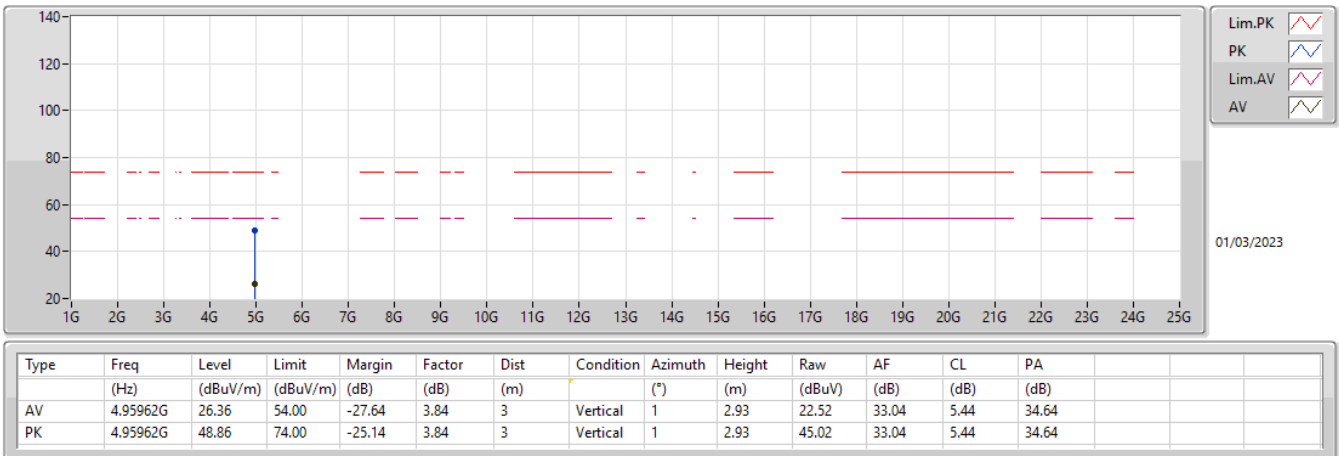
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.48G	85.47	Inf	-Inf	31.50	3	Horizontal	66	2.64	53.97	27.66	3.84	-
AV	2.4836G	35.47	54.00	-18.53	31.51	3	Horizontal	66	2.64	3.96	27.67	3.84	-
PK	2.48G	107.97	Inf	-Inf	31.50	3	Horizontal	66	2.64	76.47	27.66	3.84	-
PK	2.4836G	57.97	74.00	-16.03	31.51	3	Horizontal	66	2.64	26.46	27.67	3.84	-

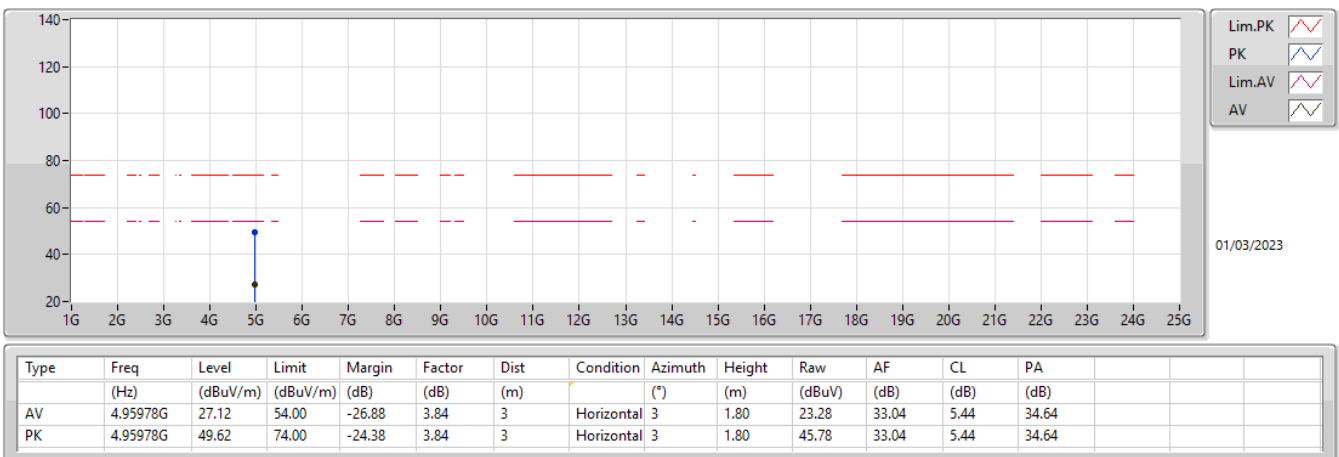
2.4-2.4835GHz_BT-EDR(3Mbps)

2480MHz_TX



2.4-2.4835GHz_BT-EDR(3Mbps)

2480MHz_TX





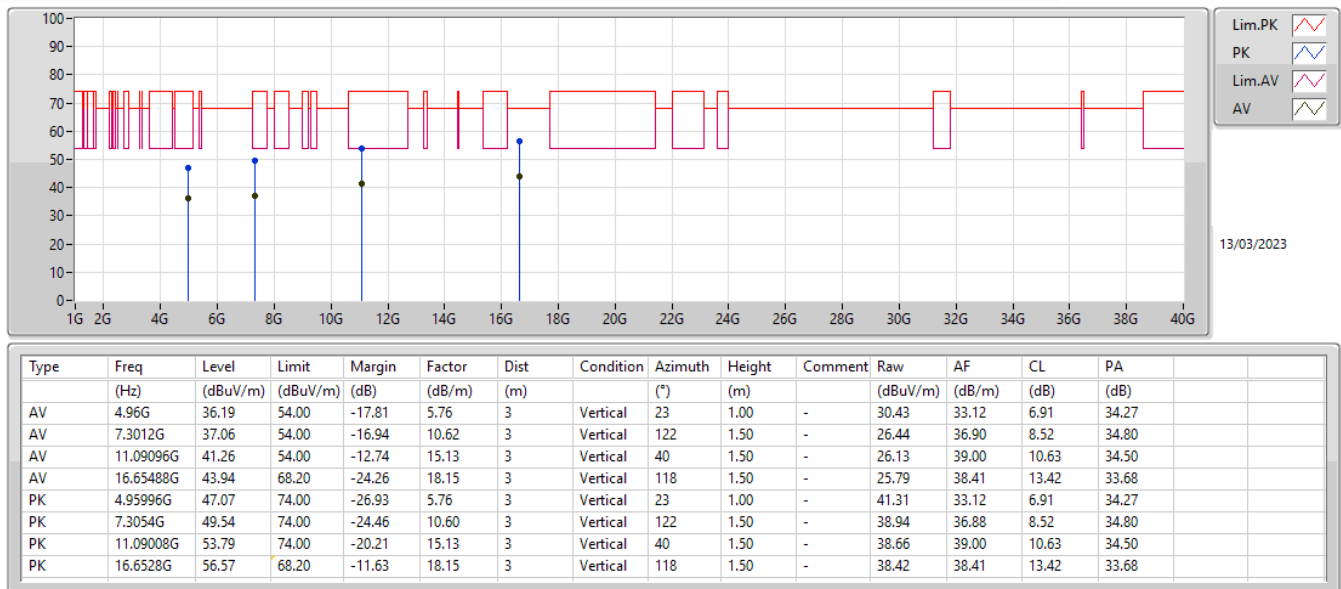
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	PK	16.6528G	56.57	68.20	-11.63	Vertical

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
Mode 1	Pass	AV	4.96G	36.19	54.00	-17.81	3	Vertical	23	1.00	-
Mode 1	Pass	AV	7.3012G	37.06	54.00	-16.94	3	Vertical	122	1.50	-
Mode 1	Pass	AV	11.09096G	41.26	54.00	-12.74	3	Vertical	40	1.50	-
Mode 1	Pass	AV	16.65488G	43.94	68.20	-24.26	3	Vertical	118	1.50	-
Mode 1	Pass	PK	4.95996G	47.07	74.00	-26.93	3	Vertical	23	1.00	-
Mode 1	Pass	PK	7.3054G	49.54	74.00	-24.46	3	Vertical	122	1.50	-
Mode 1	Pass	PK	11.09008G	53.79	74.00	-20.21	3	Vertical	40	1.50	-
Mode 1	Pass	PK	16.6528G	56.57	68.20	-11.63	3	Vertical	118	1.50	-
Mode 1	Pass	AV	4.96004G	37.08	54.00	-16.92	3	Horizontal	30	1.46	-
Mode 1	Pass	AV	7.30072G	36.92	54.00	-17.08	3	Horizontal	287	2.27	-
Mode 1	Pass	AV	11.09817G	41.18	54.00	-12.82	3	Horizontal	242	1.50	-
Mode 1	Pass	AV	16.66G	44.16	68.20	-24.04	3	Horizontal	291	1.49	-
Mode 1	Pass	PK	4.95976G	47.15	74.00	-26.85	3	Horizontal	30	1.46	-
Mode 1	Pass	PK	7.30444G	48.92	74.00	-25.08	3	Horizontal	287	2.27	-
Mode 1	Pass	PK	11.09951G	53.63	74.00	-20.37	3	Horizontal	242	1.50	-
Mode 1	Pass	PK	16.64204G	56.21	68.20	-11.99	3	Horizontal	291	1.49	-

Mode 1



Mode 1

