

FCC Radio Test Report

FCC ID : Z8H89FT0066
Equipment : XV2-2T Outdoor Wi-Fi 6 Access point
Brand Name : Cambium Networks
Model Name : XV2-2T
Applicant : Cambium Networks Inc.
3800 Golf Road Suite 360 Rolling Meadows IL United States 60008
Manufacturer : Lite-On Network Communication (Dongguan) Limited
No.30 QingXi-Keji Road, QingXi Town, DongGuan City, Guangdong Province, P.R. China
Standard : 47 CFR FCC Part 15.247

The product was received on Apr. 09, 2021, and testing was started from Apr. 09, 2021 and completed on Jun. 24, 2021. We, SPORTON INTERNATIONAL INC. Hsinhua Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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



Approved by: Allen Lin

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

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



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TEL : 886-3-3273456
FAX : 886-3-3270973
Report Template No.: HE1-C9 Ver4.2
FCC ID: Z8H89FT0066

Summary of Test Result

Report Clause	Ref. Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.247(a)	20dB Bandwidth	PASS	-
3.2	15.247(a)	Carrier Frequency Separation	PASS	-
3.3	15.247(b)	Maximum Conducted Output Power	PASS	-
3.4	15.247(a)	Number of Hopping Frequencies and Hopping Bandedge	PASS	-
3.5	15.247(a)	Time of Occupancy (Dwell Time)	PASS	-
3.6	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
3.7	15.247(d)	Emissions in Restricted Frequency Bands	PASS	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and explanations:

None

Reviewed by: Sam Tsai

Report Producer: 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	Support
1	LYNwave	Snow Leopard	PIFA antenna	I-PEX	2.4G
2	LYNwave	Snow Leopard	PIFA antenna	I-PEX	2.4G
3	LYNwave	Snow Leopard	PIFA antenna	I-PEX	5G
4	LYNwave	Snow Leopard	PIFA antenna	I-PEX	5G
5	LYNwave	Snow Leopard	PIFA antenna	I-PEX	BT

Ant.	Port	Gain (dBi)					
		2.4G	5G				BT
			U-NII-1	U-NII-2A	U-NII-2C	U-NII-3	
1	1	5.2	-	-	-	-	-
2	2	5.3	-	-	-	-	-
3	1	-	8.1	8.1	9.3	9.0	-
4	2	-	8.6	8.6	8.9	8.6	-
5	1	-	-	-	-	-	5.6

Note 1: The EUT has five 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. 5 (port 1) could transmit/receive.

For 5GHz function:

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

Ant. 3 (port 1) and Ant. 4 (port 2) could transmit/receive simultaneously.

1.1.3 Table for Explanation of Flash and 2nd Source

Object/part	Main source (Sku 1)	2nd source (Sku 2)
Description (location)		
MOSFET (QB5)	Brand: Fairchild Model: FET N 150V	Brand: APEC Model : FET N 150V
MOSFET (QB10,QB13)	Brand: Fairchild Model: FET N 100V	Brand : APEC Model : FET N 100V
MOSFET (QB7)	Brand:TI Model: FET N 60V	Brand : APEC Model : FET N 60V
FLASH MEMORY (U5)	FLASH MEMORY : 2G bit Flash Brand: MICRON Flash Model: Nand flash	FLASH MEMORY :2G bit Flash Brand: MXIC Flash Model: Nand flash

From the above Skus, Main source (Sku 1) was selected as representative model for the test and its data was recorded in this report.

1.1.4 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: Cambium Networks / Model No.: XV2-2T		
☐	Other:		

1.1.5 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
BT-BR(1Mbps)	0.502	2.99	2.903m	1k
BT-EDR(2Mbps)	0.467	3.31	2.913m	1k
BT-EDR(3Mbps)	0.424	3.73	2.915m	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	Billy Wang	21.6~22.4°C / 59~60%	24/Jun/2021
RF Conducted	TH07-HY	Alan Chien	20.1~26.9°C / 50~60%	09/Apr/2021~08/Jun/2021
☒ Wen 33rd.St. (TAF: 3785)	ADD: No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)			
	TEL: 886-3-318-0787		FAX: 886-3-318-0287	
Test site Designation No. TW0008 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
Radiated	03CH09-HY	Daniel Hsu	21.5~24.3°C / 42~60%	12/Apr/2021~23/Jun/2021

1.4 Measurement Uncertainty

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

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

2 Test Configuration of EUT

2.1 Test Channel Mode

Test Software Version	Dos6.1
Mode	Power Setting
BT-BR(1Mbps)	-
2402MHz	0x08
2440MHz	0x08
2480MHz	0x08
BT-EDR(2Mbps)	-
2402MHz	0x08
2440MHz	0x08
2480MHz	0x08
BT-EDR(3Mbps)	-
2402MHz	0x08
2440MHz	0x08
2480MHz	0x08

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	Y Plane
	
Worst Planes of EUT	V

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Operating Mode	CTX
1	Bluetooth+WLAN 2.4GHz+WLAN 5GHz
Refer to Sporton Test Report No.: FA142329 for Co-location RF Exposure Evaluation.	

2.3 Accessories

Accessories				
Mount kit	Brand Name	-	Model Name	-

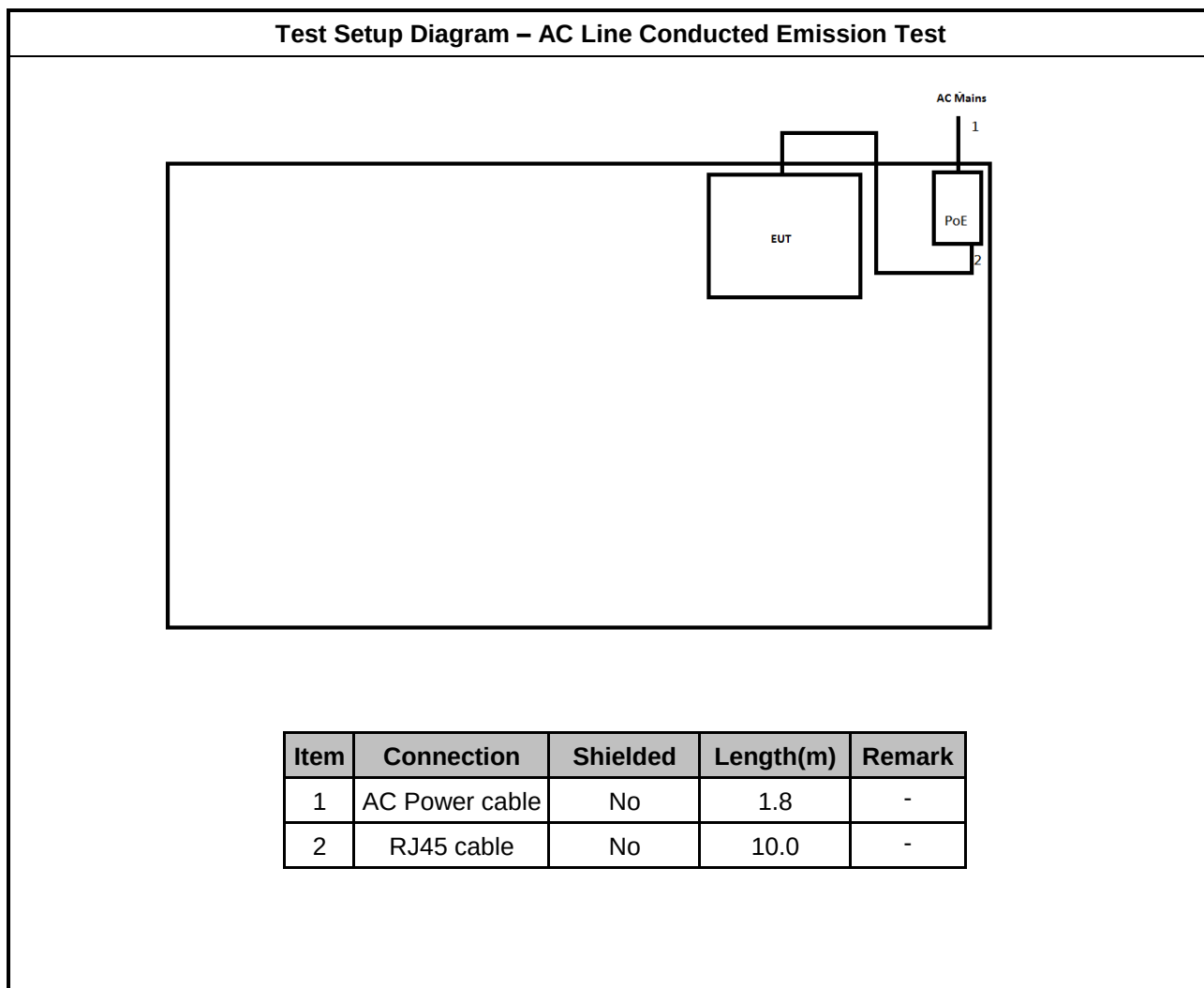
Reminder: Regarding to more detail and other information, please refer to user manual.

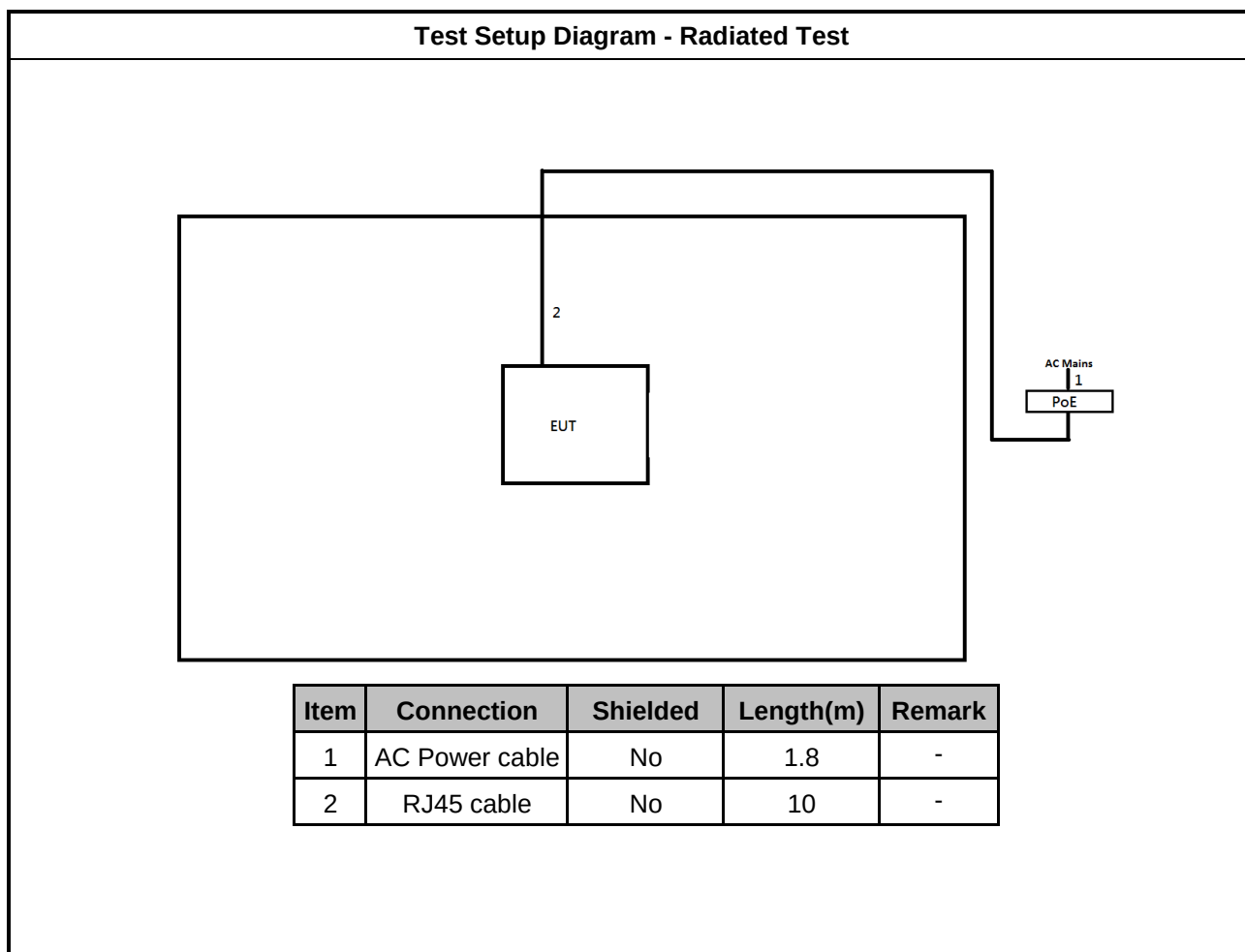
2.4 Support Equipment

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

Support Equipment –AC Conduction and Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Client	-	-	-	Provided by Customer / remote
2	Notebook	HP	E5520	-	remote

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

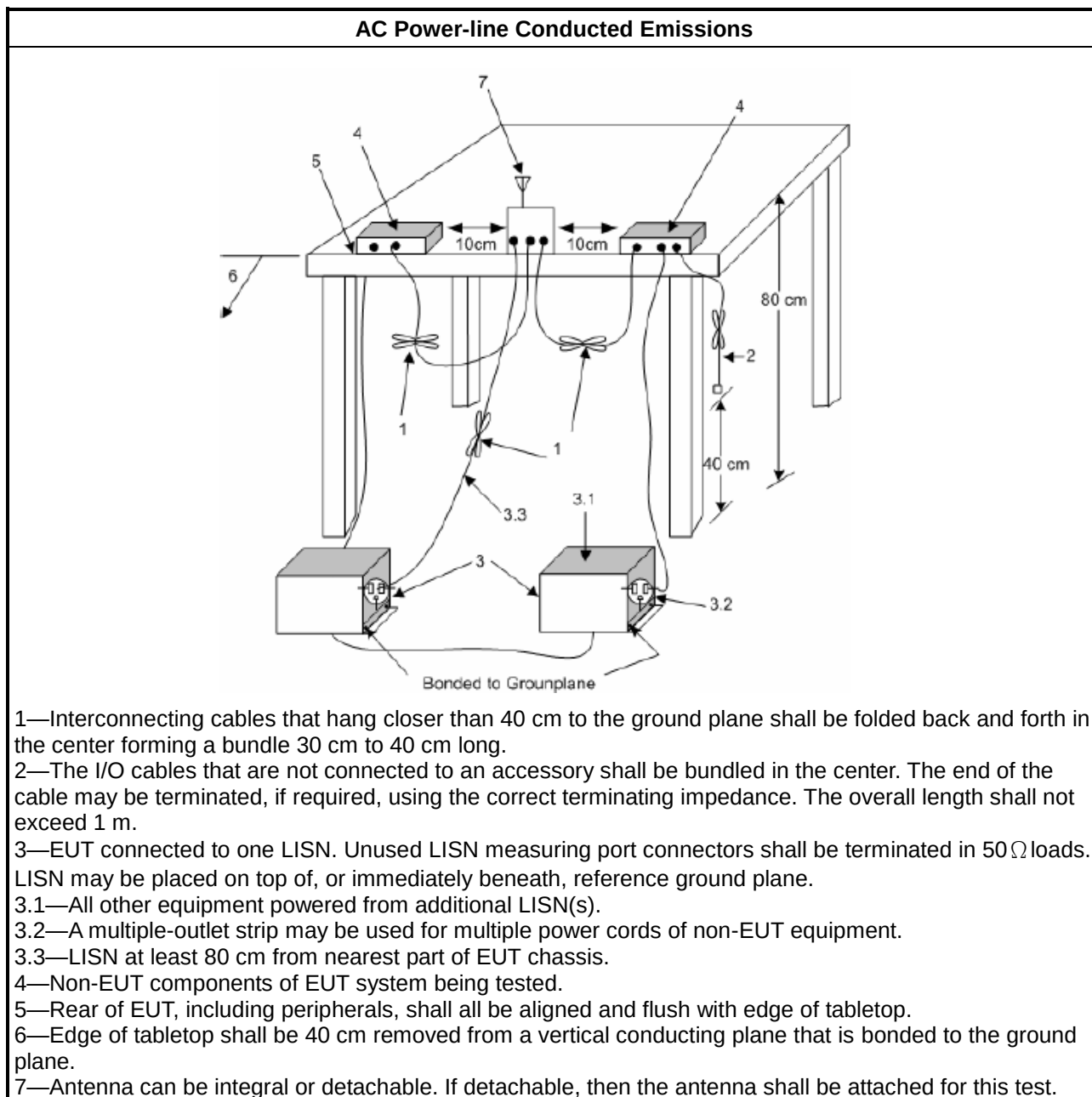
Test Method
▪ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

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	

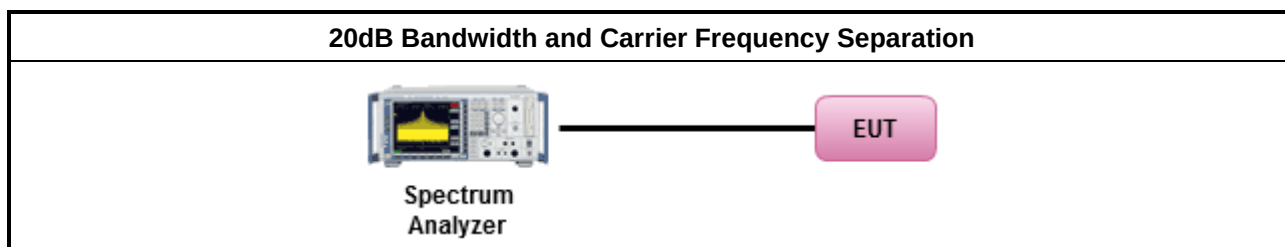
3.2.2 Measuring Instruments

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	

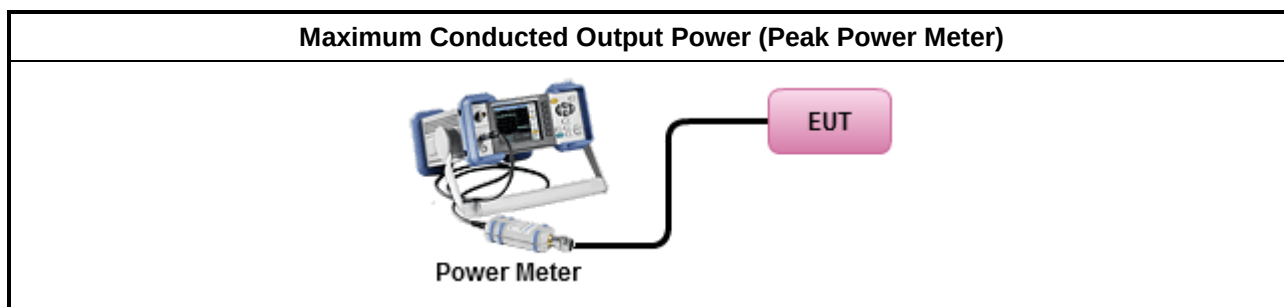
3.3.2 Measuring Instruments

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

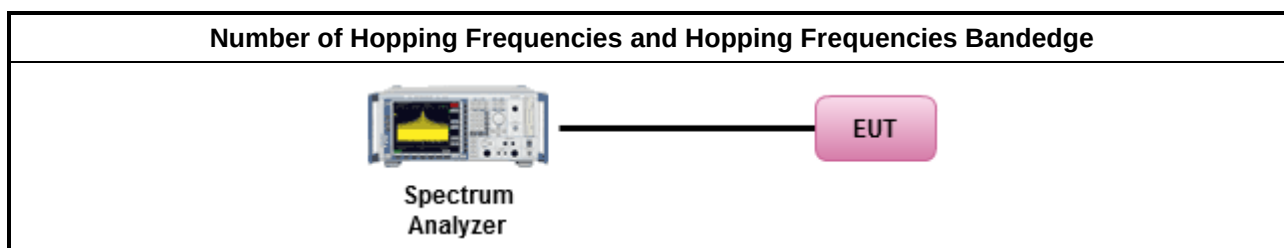
3.4.3 Measuring Instruments

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	

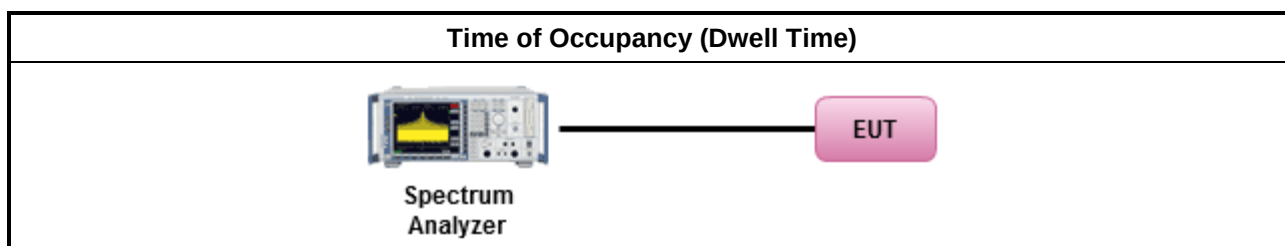
3.5.2 Measuring Instruments

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.	

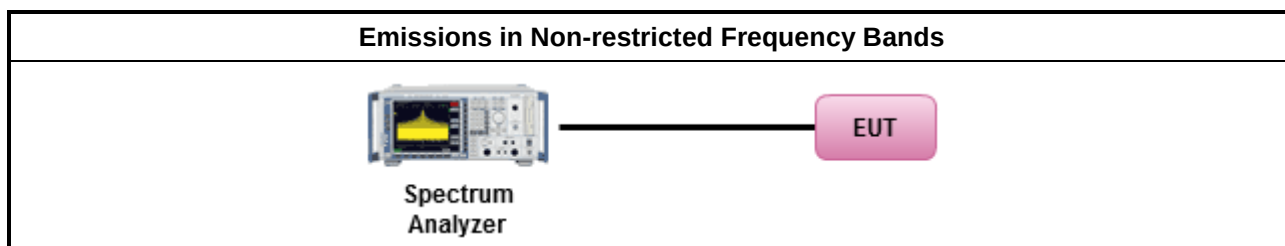
3.6.2 Measuring Instruments

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

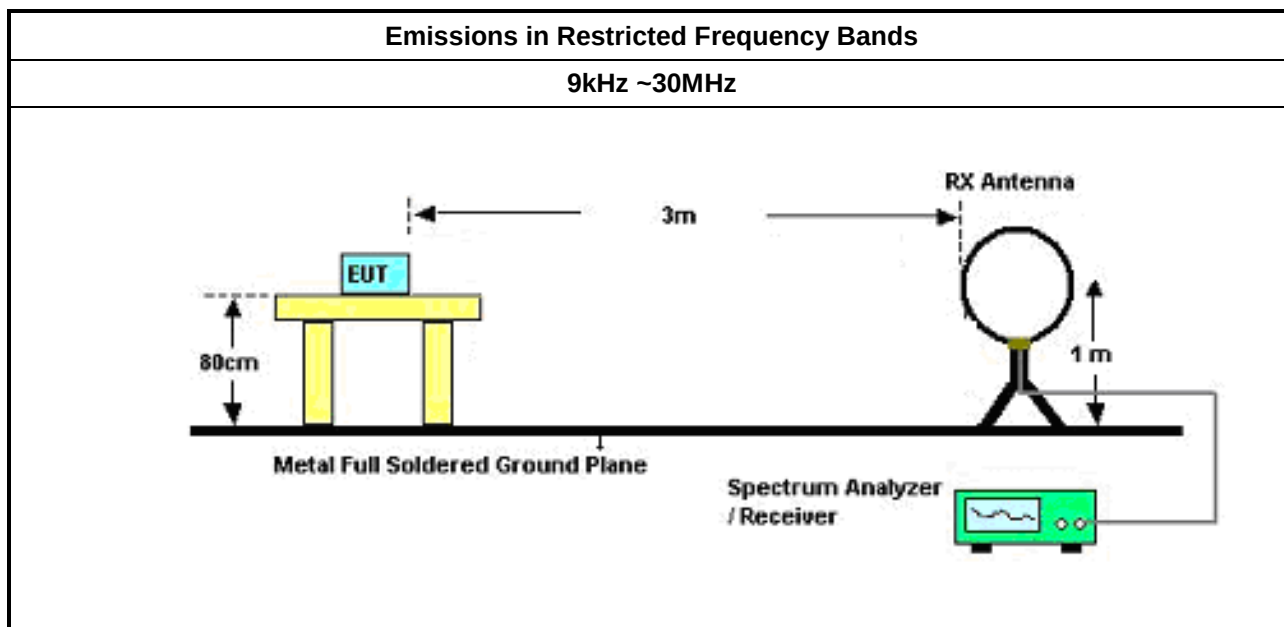
Test Method	
The average emission levels shall be measured in [hopping duty factor].	
Refer as ANSI C63.10; clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
For the transmitter unwanted emissions shall 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.

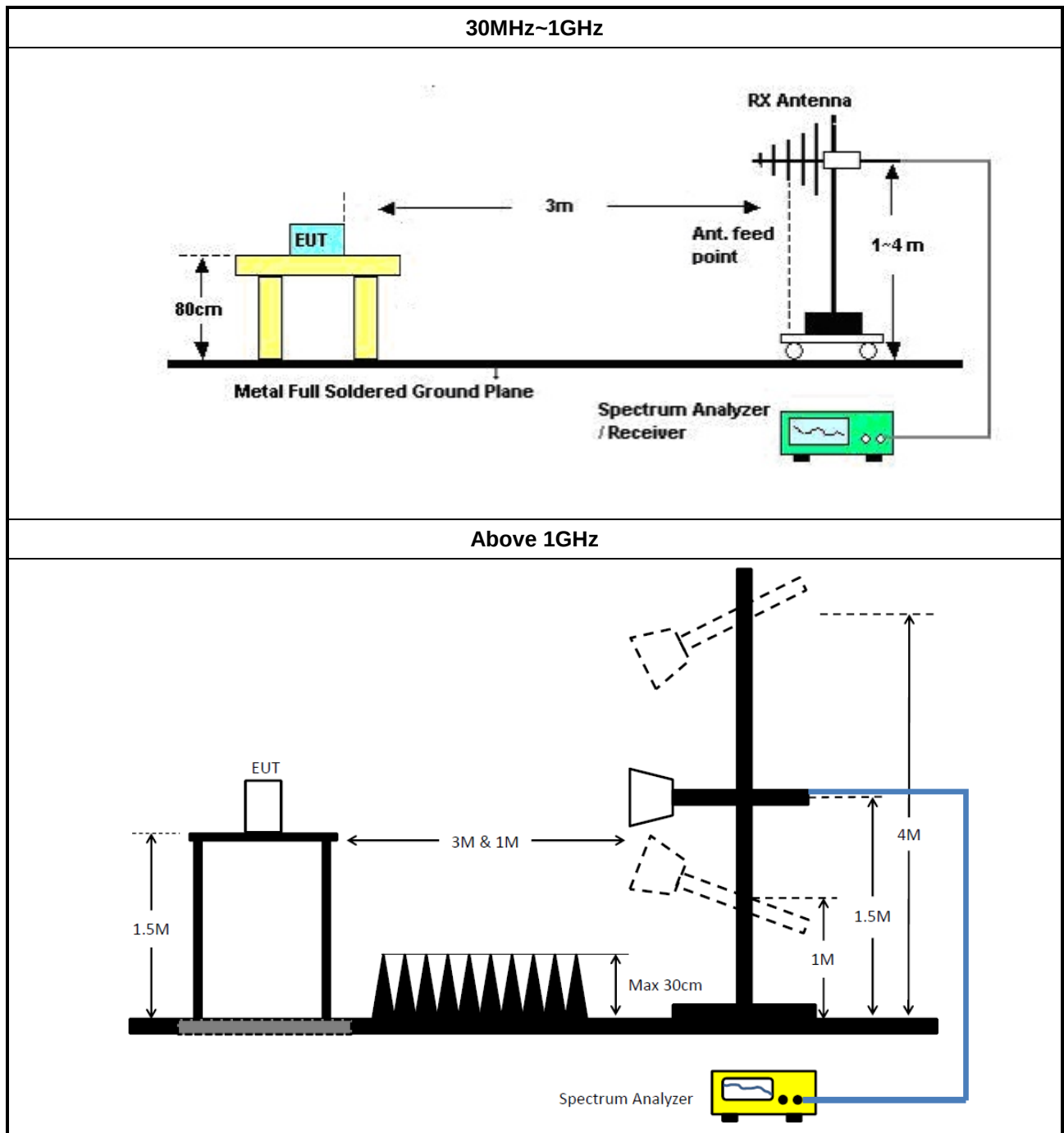
3.7.4 Measurement Results Calculation

The measured Level is calculated using:

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

3.7.5 Test Setup





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

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

3.7.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix G

4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR	102052	9kHz ~ 3.6GHz	19/Apr/2021	18/Apr/2022
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	11/Nov/2020	10/Nov/2021
RF Cable 5m	TITAN	TITAN	CO04-cable-01	0.1MHz~200MHz	03/Mar/2021	02/Mar/2022
Impuls Begrenzer Pulse Limiter	SCHWARZBEC K	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	21/Sep/2020	20/Sep/2021

Instrument for Conducted Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101515	10Hz~40GHz	26/Mar/2021	25/Mar/2022
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	20/Oct/2020	19/Oct/2021
Pulse Sensor	Anritsu	MA2411B	1339407	300MHz~40GHz	27/Nov/2020	26/Nov/2021
Power Meter	Anritsu	ML2495A	1517010	300MHz~40GHz	27/Nov/2020	26/Nov/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	26/Mar/2021	25/Mar/2022
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	1GHz~18GHz 3m	18/Mar/2021	17/Mar/2022
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200885	10Hz~44GHz	11/Aug/2020	10/Aug/2021
Amplifier	EMC	EMC9135	980232	9kHz~1GHz	12/Apr/2021	11/Apr/2022
Microwave Preamplifier	Agilent	8449B	3008A02096	1GHz~26.5GHz	24/Jul/2020	23/Jul/2021
Bilog Antenna & 5dB Attenuator	TESEQ & MTJ	CBL6111D&MTJ 6102-05	35418 & 3	30MHz~1GHz	06/Sep/2020	05/Sep/2021
Double Ridged Guide Horn Antenna	COM-POWER	AH-118	071028	1GHz~18GHz	09/Jun/2020	08/Jun/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	09/Feb/2021	08/Feb/2022
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	11/Mar/2021	10/Mar/2022
Microwave Preamplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~ 40GHz	09/Mar/2021	08/Mar/2022
Preamplifier	MITEQ	TTA1840-35-HG	1864481	18GHz~40GHz	18/Mar/2021	17/Mar/2022
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	16/Mar/2021	15/Mar/2022
EMI Test Receiver	R&S	ESR3	102052	9kHz~3.6GHz	19/Apr/2021	18/Apr/2022



Conducted Emissions at Powerline

Appendix A

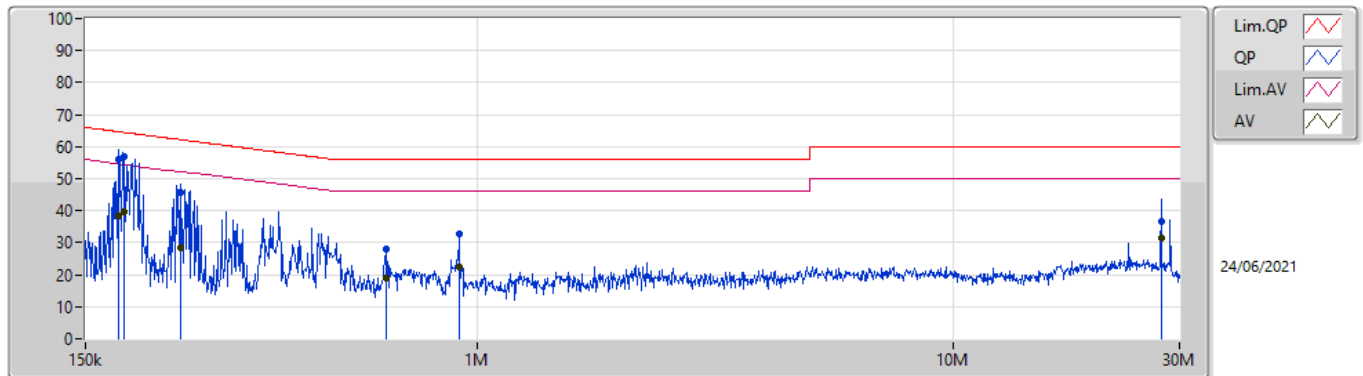
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	182.408k	57.16	64.37	-7.21	Neutral

Mode config

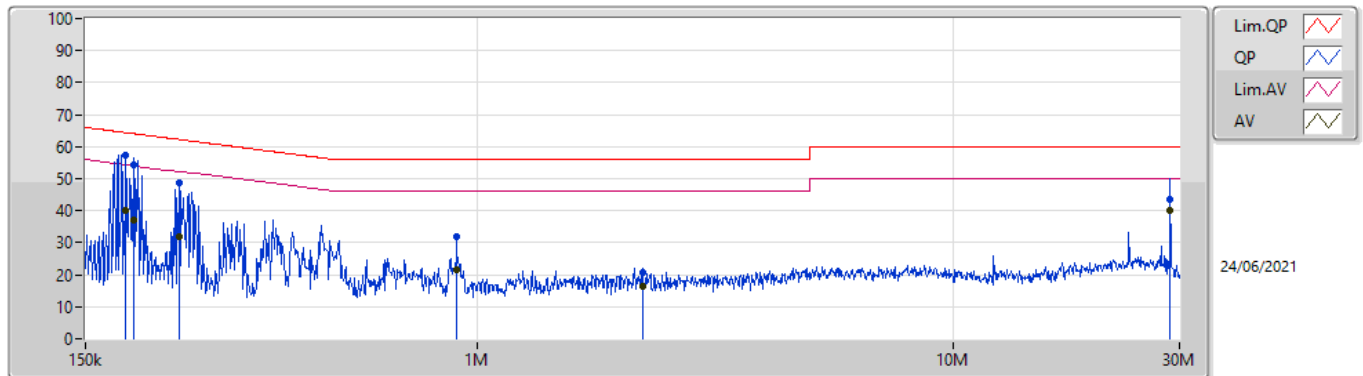
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	175.97k	55.84	64.68	-8.84	Line	-
Mode 1	Pass	AV	175.97k	38.18	54.68	-16.50	Line	-
Mode 1	Pass	QP	180.957k	57.05	64.43	-7.38	Line	-
Mode 1	Pass	AV	180.957k	39.50	54.43	-14.93	Line	-
Mode 1	Pass	QP	237.393k	45.88	62.20	-16.32	Line	-
Mode 1	Pass	AV	237.393k	28.33	52.20	-23.87	Line	-
Mode 1	Pass	QP	644.016k	27.94	56.00	-28.06	Line	-
Mode 1	Pass	AV	644.016k	19.10	46.00	-26.90	Line	-
Mode 1	Pass	QP	915.089k	32.79	56.00	-23.21	Line	-
Mode 1	Pass	AV	915.089k	22.47	46.00	-23.53	Line	-
Mode 1	Pass	QP	27.453M	36.72	60.00	-23.28	Line	-
Mode 1	Pass	AV	27.453M	31.34	50.00	-18.66	Line	-
Mode 1	Pass	QP	182.408k	57.16	64.37	-7.21	Neutral	-
Mode 1	Pass	AV	182.408k	40.23	54.37	-14.14	Neutral	-
Mode 1	Pass	QP	189.08k	54.36	64.07	-9.71	Neutral	-
Mode 1	Pass	AV	189.08k	37.17	54.07	-16.90	Neutral	-
Mode 1	Pass	QP	235.505k	48.62	62.25	-13.63	Neutral	-
Mode 1	Pass	AV	235.505k	31.92	52.25	-20.33	Neutral	-
Mode 1	Pass	QP	907.812k	32.01	56.00	-23.99	Neutral	-
Mode 1	Pass	AV	907.812k	21.66	46.00	-24.34	Neutral	-
Mode 1	Pass	QP	2.229M	20.80	56.00	-35.20	Neutral	-
Mode 1	Pass	AV	2.229M	16.29	46.00	-29.71	Neutral	-
Mode 1	Pass	QP	28.685M	43.54	60.00	-16.46	Neutral	-
Mode 1	Pass	AV	28.685M	39.91	50.00	-10.09	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	175.97k	55.84	64.68	-8.84	19.62	Line	-	36.22	9.68	0.04	9.90			
AV	175.97k	38.18	54.68	-16.50	19.62	Line	-	18.56	9.68	0.04	9.90			
QP	180.957k	57.05	64.43	-7.38	19.62	Line	-	37.43	9.68	0.04	9.90			
AV	180.957k	39.50	54.43	-14.93	19.62	Line	-	19.88	9.68	0.04	9.90			
QP	237.393k	45.88	62.20	-16.32	19.62	Line	-	26.26	9.68	0.04	9.90			
AV	237.393k	28.33	52.20	-23.87	19.62	Line	-	8.71	9.68	0.04	9.90			
QP	644.016k	27.94	56.00	-28.06	19.59	Line	-	8.35	9.67	0.07	9.85			
AV	644.016k	19.10	46.00	-26.90	19.59	Line	-	-0.49	9.67	0.07	9.85			
QP	915.089k	32.79	56.00	-23.21	19.56	Line	-	13.23	9.67	0.08	9.81			
AV	915.089k	22.47	46.00	-23.53	19.56	Line	-	2.91	9.67	0.08	9.81			
QP	27.453M	36.72	60.00	-23.28	19.79	Line	-	16.93	9.56	0.33	9.90			
AV	27.453M	31.34	50.00	-18.66	19.79	Line	-	11.55	9.56	0.33	9.90			

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	182.408k	57.16	64.37	-7.21	19.62	Neutral	-	37.54	9.68	0.04	9.90			
AV	182.408k	40.23	54.37	-14.14	19.62	Neutral	-	20.61	9.68	0.04	9.90			
QP	189.08k	54.36	64.07	-9.71	19.62	Neutral	-	34.74	9.68	0.04	9.90			
AV	189.08k	37.17	54.07	-16.90	19.62	Neutral	-	17.55	9.68	0.04	9.90			
QP	235.505k	48.62	62.25	-13.63	19.62	Neutral	-	29.00	9.68	0.04	9.90			
AV	235.505k	31.92	52.25	-20.33	19.62	Neutral	-	12.30	9.68	0.04	9.90			
QP	907.812k	32.01	56.00	-23.99	19.56	Neutral	-	12.45	9.67	0.08	9.81			
AV	907.812k	21.66	46.00	-24.34	19.56	Neutral	-	2.10	9.67	0.08	9.81			
QP	2.229M	20.80	56.00	-35.20	19.61	Neutral	-	1.19	9.68	0.11	9.82			
AV	2.229M	16.29	46.00	-29.71	19.61	Neutral	-	-3.32	9.68	0.11	9.82			
QP	28.685M	43.54	60.00	-16.46	19.95	Neutral	-	23.59	9.71	0.34	9.90			
AV	28.685M	39.91	50.00	-10.09	19.95	Neutral	-	19.96	9.71	0.34	9.90			

**Summary**

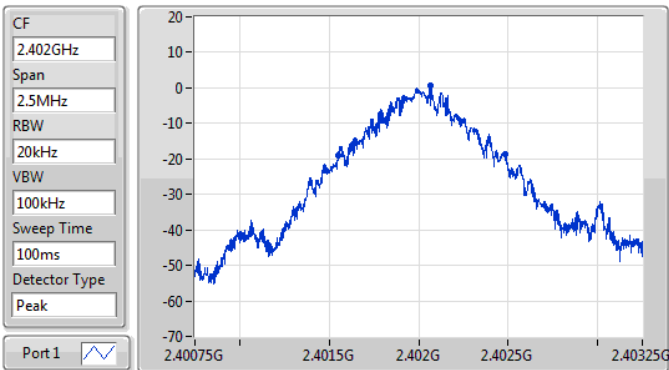
Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
BT-BR(1Mbps)	936.25k	880.81k	881KF1D	933.75k	878.311k
BT-EDR(2Mbps)	1.335M	1.231M	1M23G1D	1.314M	1.204M
BT-EDR(3Mbps)	1.303M	1.226M	1M23G1D	1.276M	1.217M

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	935k	878.311k
2440MHz	Pass	Inf	936.25k	878.311k
2480MHz	Pass	Inf	933.75k	880.81k
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.314M	1.204M
2440MHz	Pass	Inf	1.319M	1.208M
2480MHz	Pass	Inf	1.335M	1.231M
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.276M	1.217M
2440MHz	Pass	Inf	1.286M	1.217M
2480MHz	Pass	Inf	1.303M	1.226M

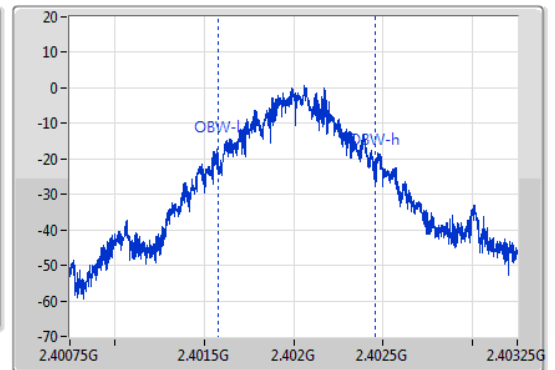
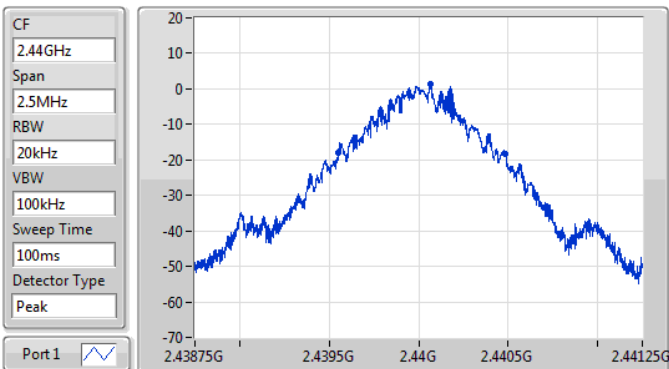
Port X-N dB = Port X 20dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

BT-BR(1Mbps)
2402MHz


20dB(Hz)	FI-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	FI-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
935k	2.401551G	2.402486G	878.311k	2.401575G	2.402454G	Inf	1

EBW-FS

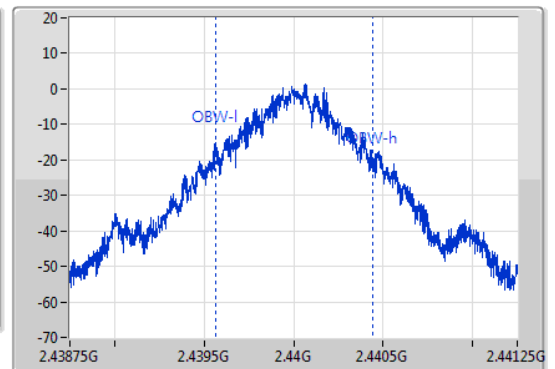
02/06/2021

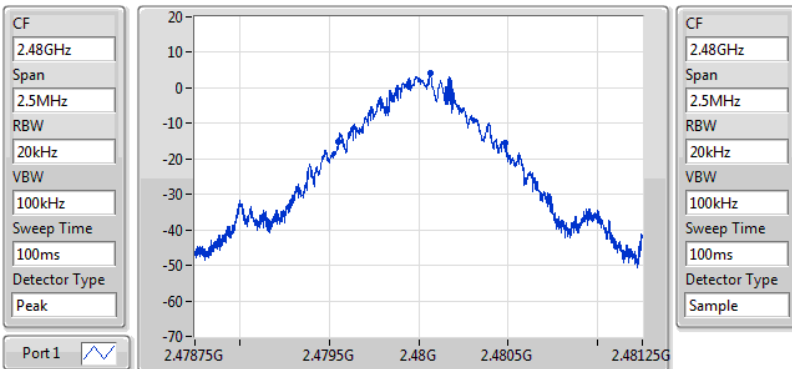

BT-BR(1Mbps)
2440MHz


20dB(Hz)	FI-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	FI-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
936.25k	2.43955G	2.440486G	878.311k	2.439566G	2.440445G	Inf	1

EBW-FS

02/06/2021

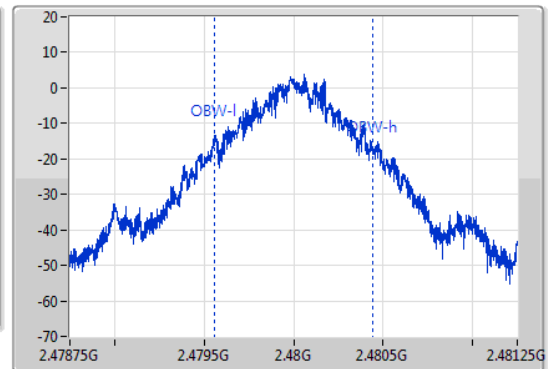
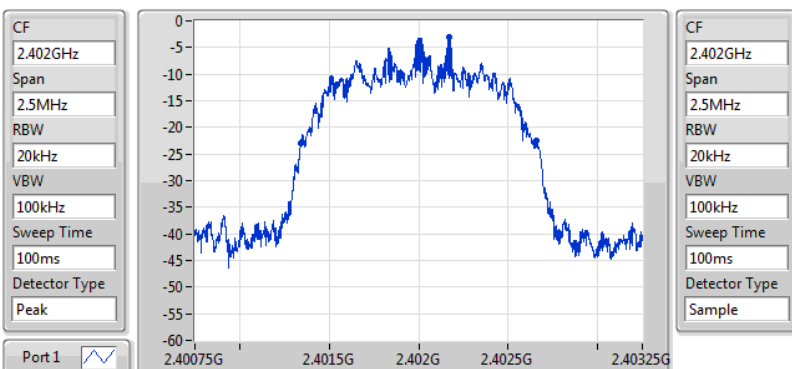


BT-BR(1Mbps)
2480MHz


20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
933.75k	2.47955G	2.480484G	880.81k	2.47956G	2.480441G	Inf	1

EBW-FS

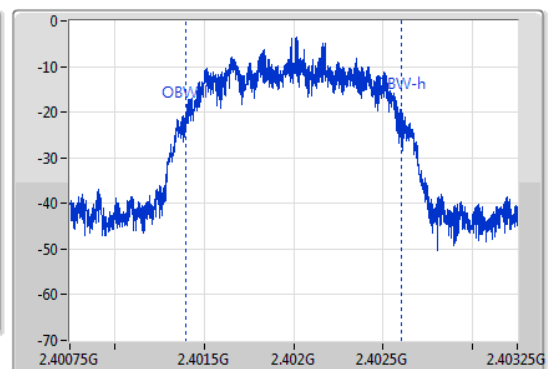
02/06/2021


BT-EDR(2Mbps)
2402MHz


20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.314M	2.401343G	2.402656G	1.204M	2.401397G	2.402601G	Inf	1

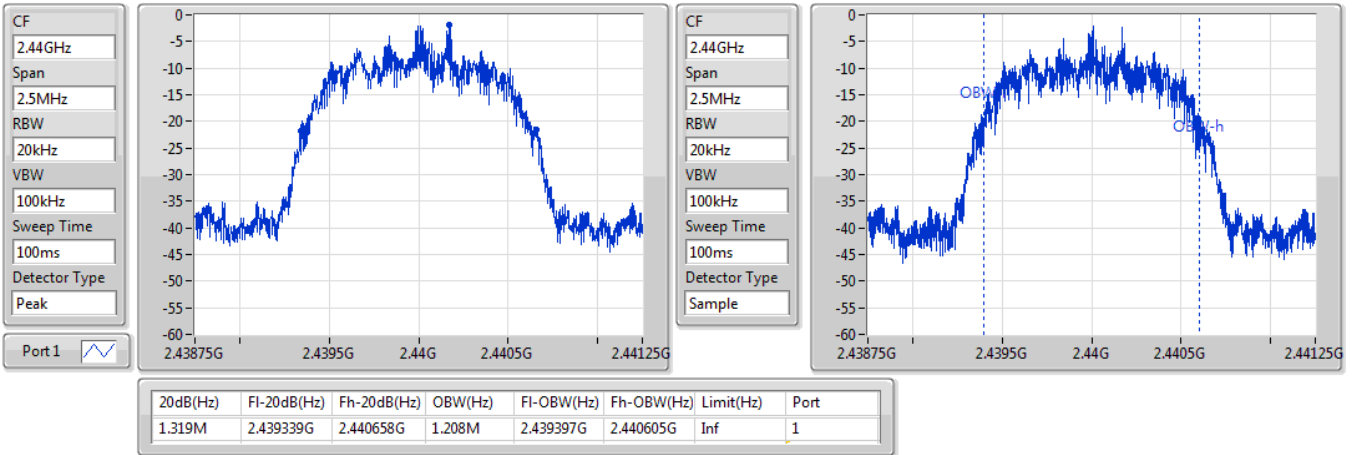
EBW-FS

02/06/2021

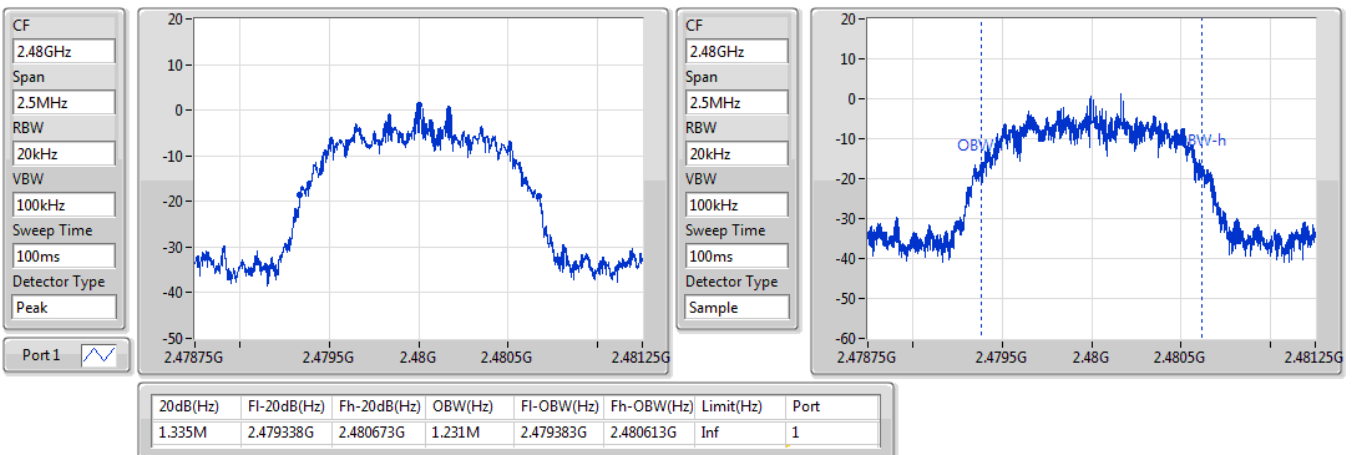


BT-EDR(2Mbps)
EBW-FS
2440MHz

02/06/2021

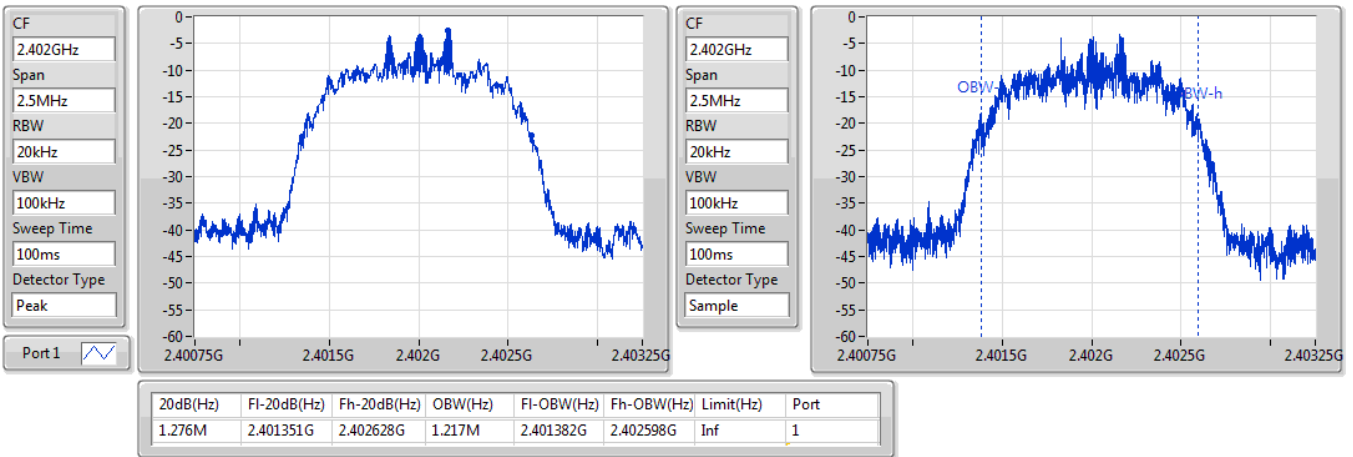

BT-EDR(2Mbps)
EBW-FS
2480MHz

02/06/2021

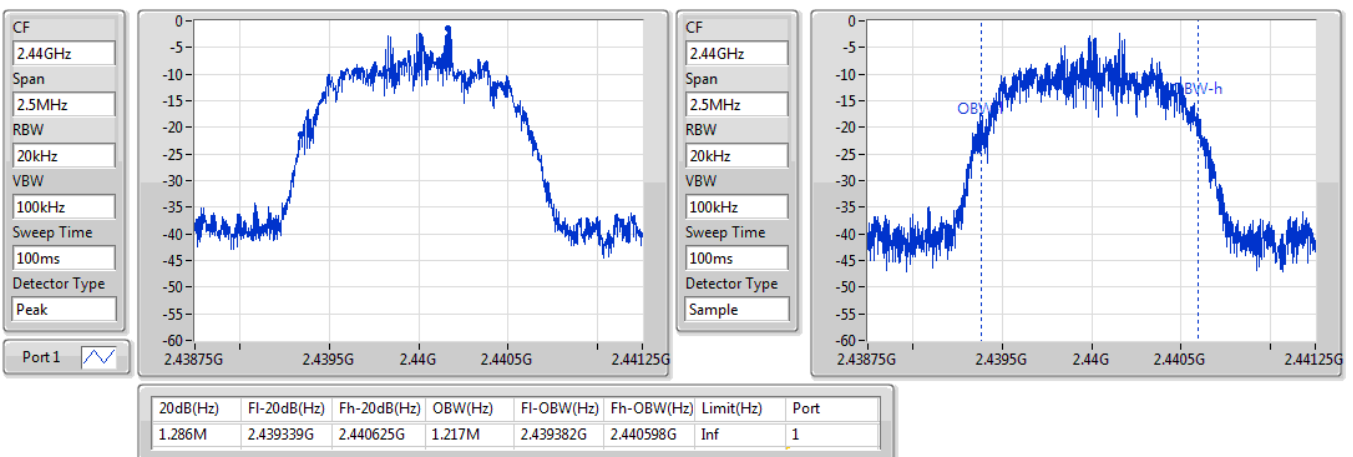


BT-EDR(3Mbps)
EBW-FS
2402MHz

02/06/2021

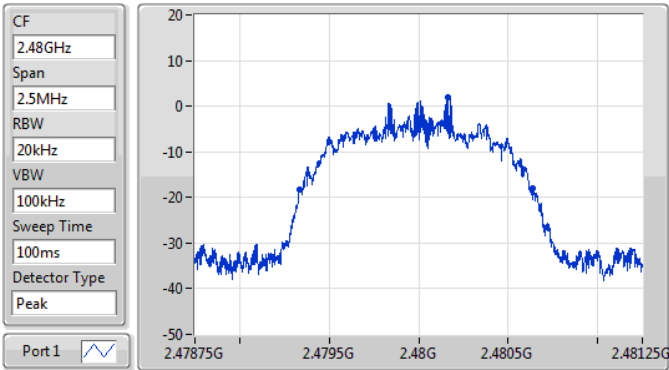

BT-EDR(3Mbps)
EBW-FS
2440MHz

02/06/2021



BT-EDR(3Mbps)

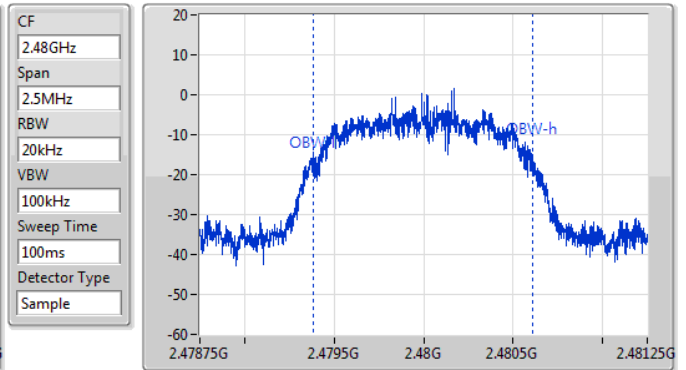
2480MHz



20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.303M	2.479336G	2.480639G	1.226M	2.47938G	2.480606G	Inf	1

EBW-FS

02/06/2021





Summary

Mode	Max-Space (Hz)	Min-Space (Hz)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	1.002M	1.002M
BT-EDR(2Mbps)	1.002M	999k
BT-EDR(3Mbps)	1.0035M	999k

Result

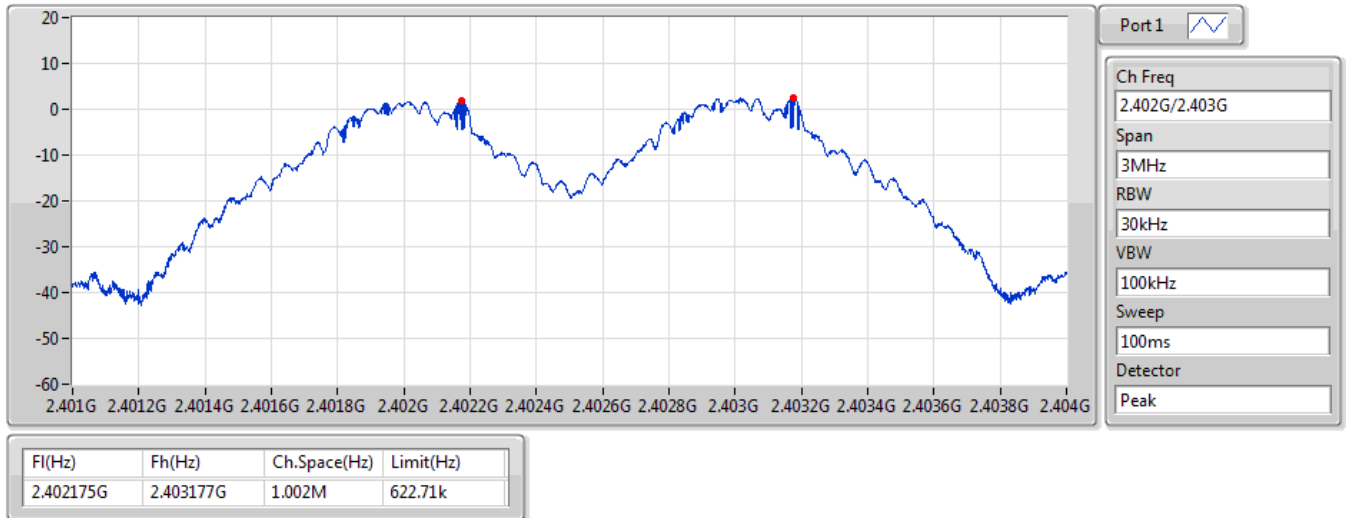
Mode	Result	Fl (Hz)	Fh (Hz)	Ch.Space (Hz)	Limit (Hz)
BT-BR(1Mbps)	-	-	-	-	-
2402MHz	Pass	2.402175G	2.403177G	1.002M	622.71k
2440MHz	Pass	2.440172G	2.441174G	1.002M	623.5425k
2480MHz	Pass	2.47917G	2.480172G	1.002M	621.8775k
BT-EDR(2Mbps)	-	-	-	-	-
2402MHz	Pass	2.402005G	2.403007G	1.002M	875.124k
2440MHz	Pass	2.440005G	2.441007G	1.002M	878.454k
2480MHz	Pass	2.479007G	2.480006G	999k	889.11k
BT-EDR(3Mbps)	-	-	-	-	-
2402MHz	Pass	2.402163G	2.403166G	1.0035M	849.816k
2440MHz	Pass	2.440166G	2.441165G	999k	856.476k
2480MHz	Pass	2.479164G	2.480165G	1.0005M	867.798k

BT-BR(1Mbps)

2.402G/2.403GHz

Channel Separation-FS

02/06/2021

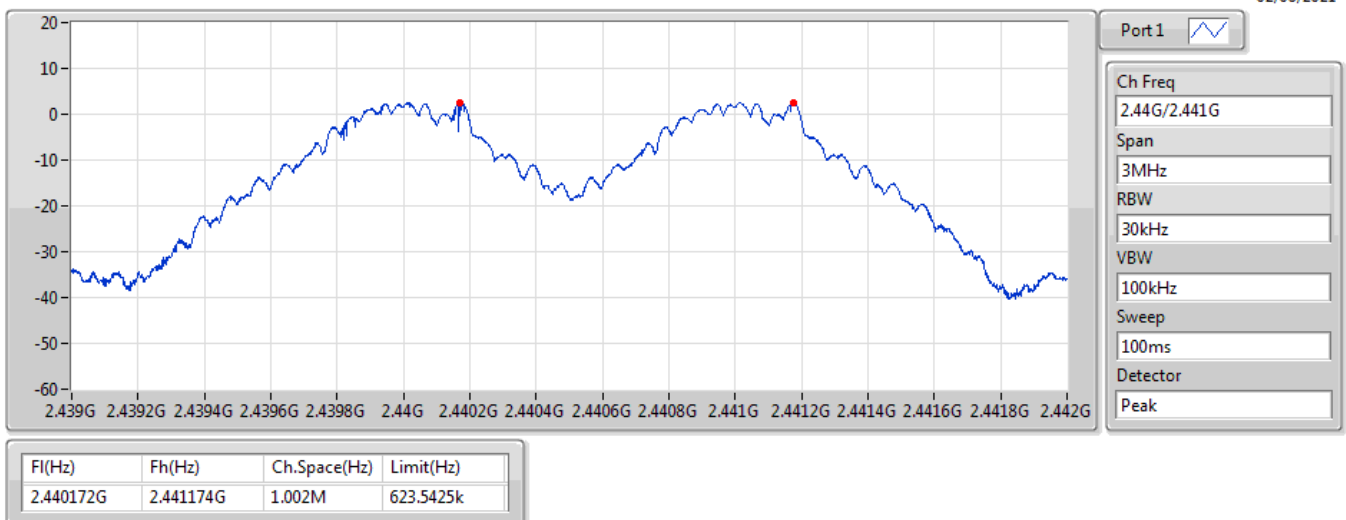


BT-BR(1Mbps)

2.44G/2.441GHz

Channel Separation-FS

02/06/2021



BT-BR(1Mbps)

2.48G/2.479GHz

Channel Separation-FS

02/06/2021



BT-EDR(2Mbps)

2.402G/2.403GHz

Channel Separation-FS

02/06/2021



BT-EDR(2Mbps)

2.44G/2.441GHz

Channel Separation-FS

02/06/2021



BT-EDR(2Mbps)

2.48G/2.479GHz

Channel Separation-FS

02/06/2021

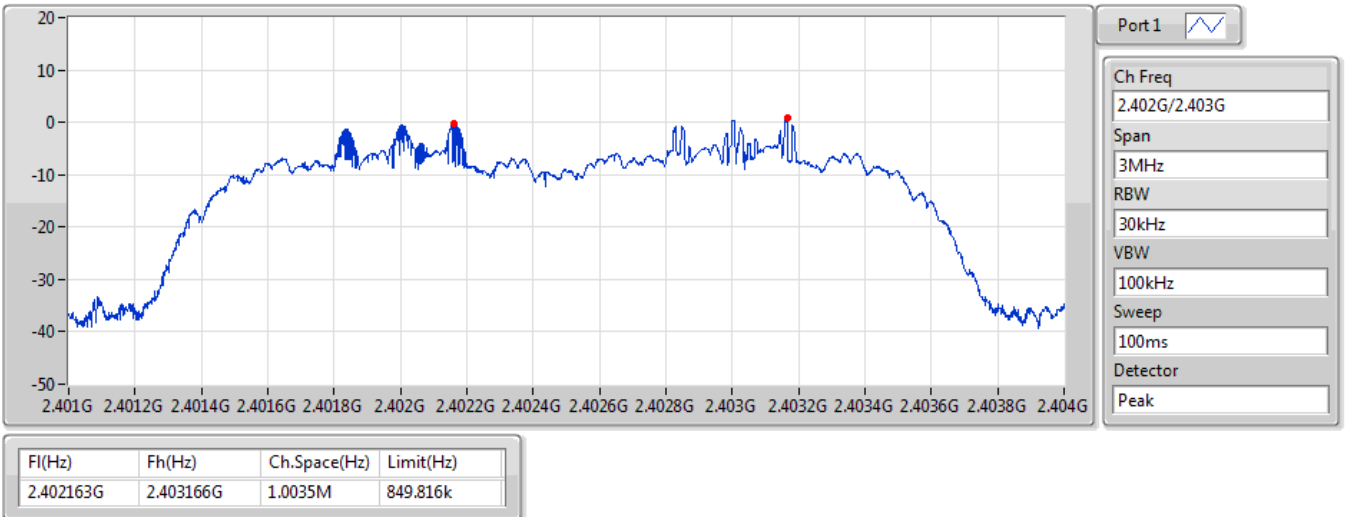


BT-EDR(3Mbps)

2.402G/2.403GHz

Channel Separation-FS

02/06/2021

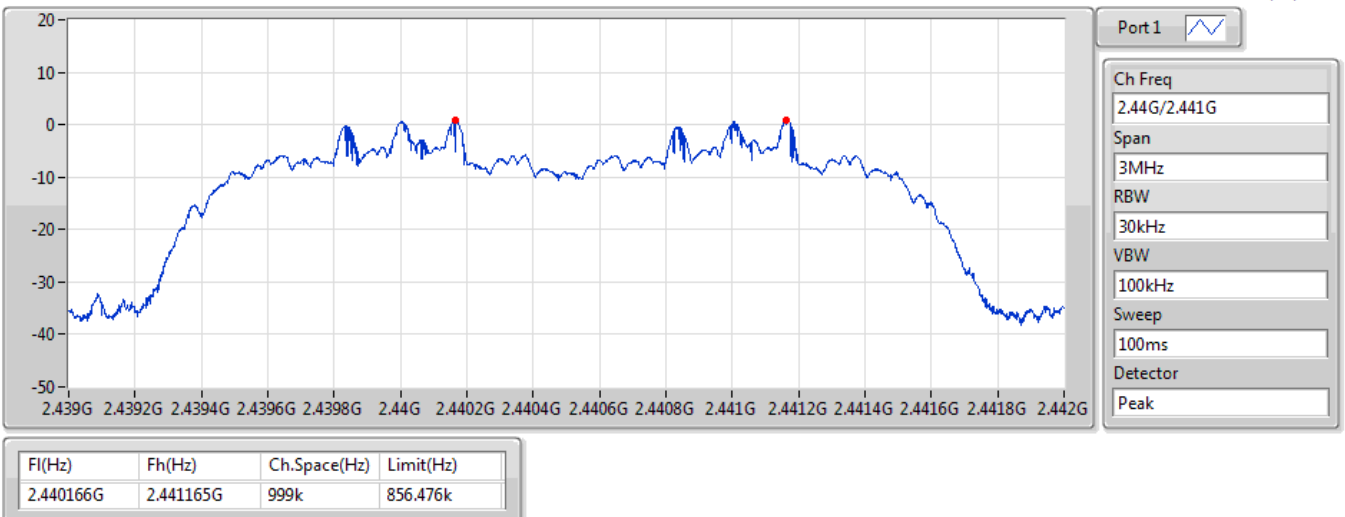


BT-EDR(3Mbps)

2.44G/2.441GHz

Channel Separation-FS

02/06/2021



BT-EDR(3Mbps)

2.48G/2.479GHz

Channel Separation-FS

02/06/2021





Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	7.64	0.00581
BT-EDR(2Mbps)	6.85	0.00484
BT-EDR(3Mbps)	6.93	0.00493

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	5.60	4.52	21.00
2440MHz	Pass	5.60	5.30	21.00
2480MHz	Pass	5.60	7.64	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	5.60	2.96	21.00
2440MHz	Pass	5.60	3.99	21.00
2480MHz	Pass	5.60	6.85	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	5.60	3.21	21.00
2440MHz	Pass	5.60	4.07	21.00
2480MHz	Pass	5.60	6.93	21.00

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



Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	7.59	0.00574
BT-EDR(2Mbps)	5.33	0.00341
BT-EDR(3Mbps)	5.28	0.00337



Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	5.60	4.40	21.00
2440MHz	Pass	5.60	5.24	21.00
2480MHz	Pass	5.60	7.59	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	5.60	0.75	21.00
2440MHz	Pass	5.60	2.03	21.00
2480MHz	Pass	5.60	5.33	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	5.60	0.79	21.00
2440MHz	Pass	5.60	1.88	21.00
2480MHz	Pass	5.60	5.28	21.00

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



Summary

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

Result

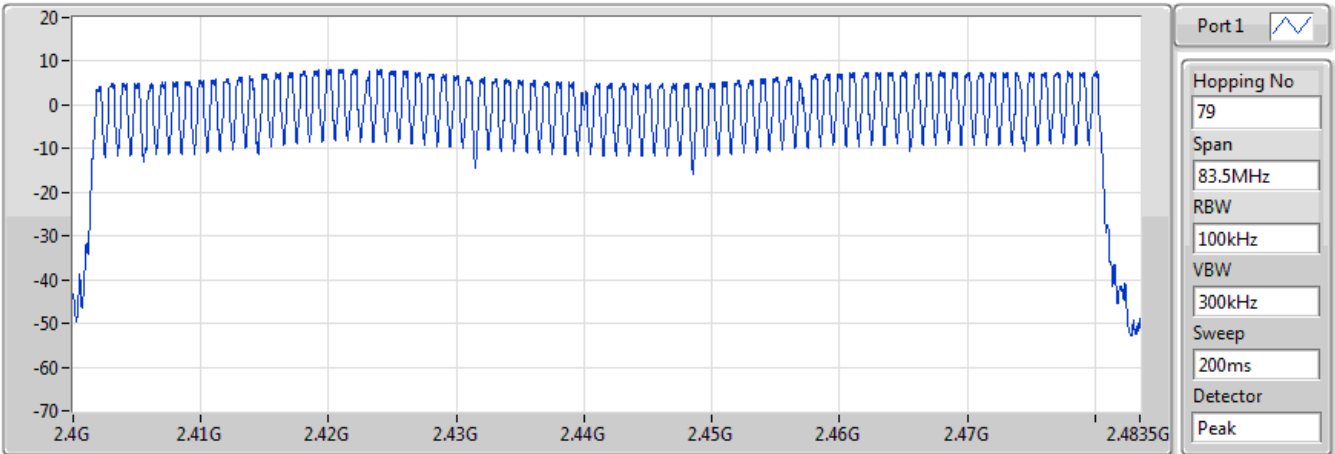
Mode	Result	Hopping No	Limit
BT-BR(1Mbps)	-	-	-
2440MHz	Pass	79	15
BT-EDR(2Mbps)	-	-	-
2440MHz	Pass	79	15
BT-EDR(3Mbps)	-	-	-
2440MHz	Pass	79	15

BT-BR(1Mbps)

2440MHz

Hopping-FS

02/06/2021



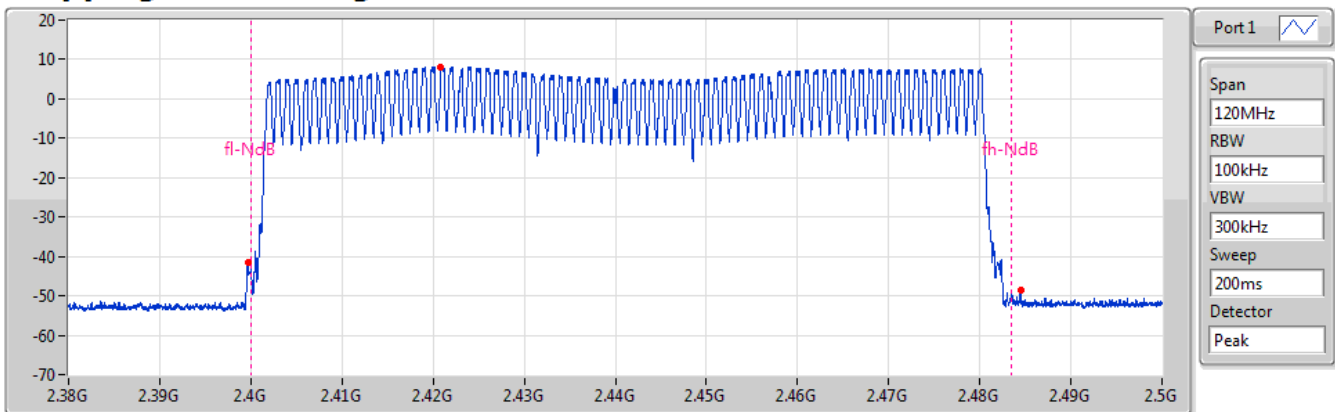
Hopping No	Limit
79	15

BT-BR(1Mbps)

2440MHz

Hopping Ch Bandedge (Non-restricted Band)

02/06/2021



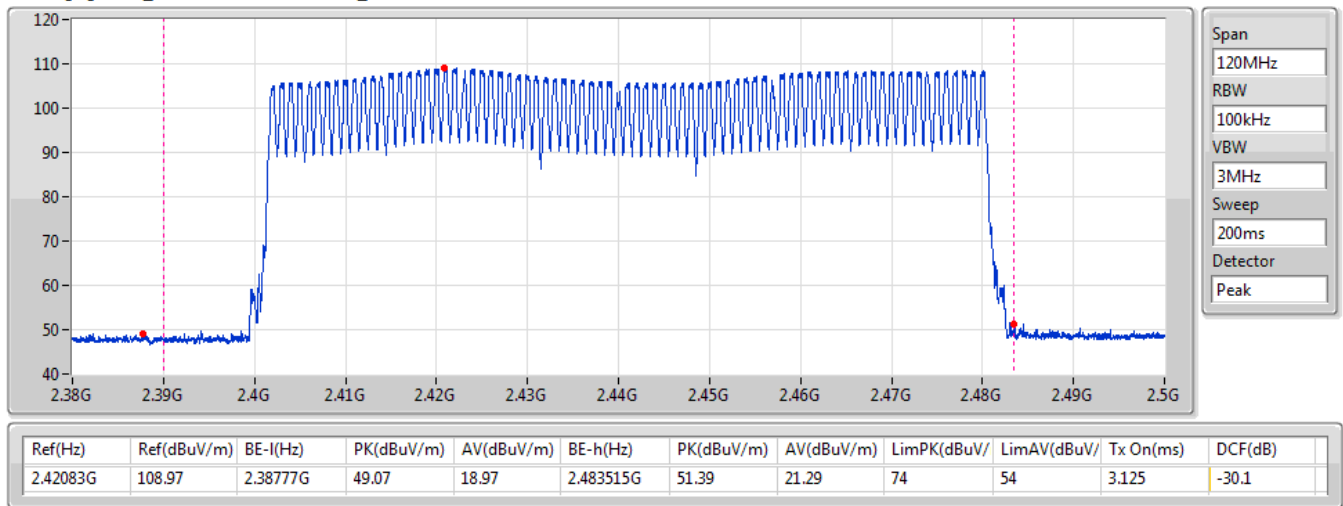
Limit(dBm)	Ref(Hz)	Ref(dBm)	BE-l(Hz)	BE-l(dBm)	BE-h(Hz)	BE-h(dBm)
-11.84	2.42083G	8.16	2.399665G	-41.68	2.484475G	-48.63

BT-BR(1Mbps)

2440MHz

Hopping Ch Bandedge (Restricted Band)

02/06/2021

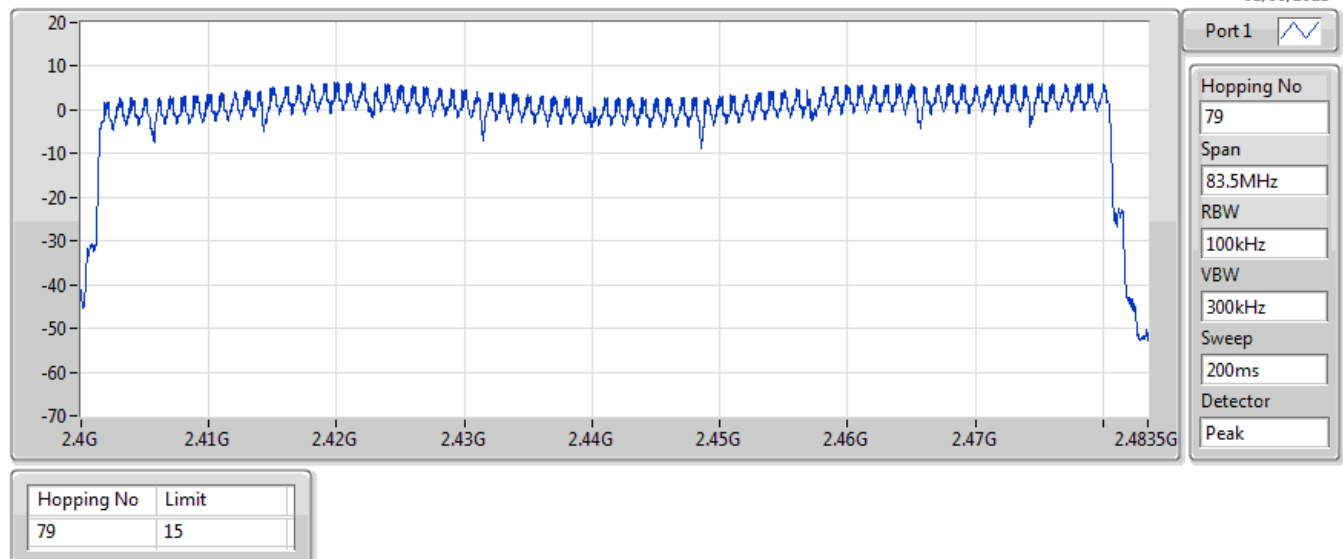


BT-EDR(2Mbps)

2440MHz

Hopping-FS

02/06/2021

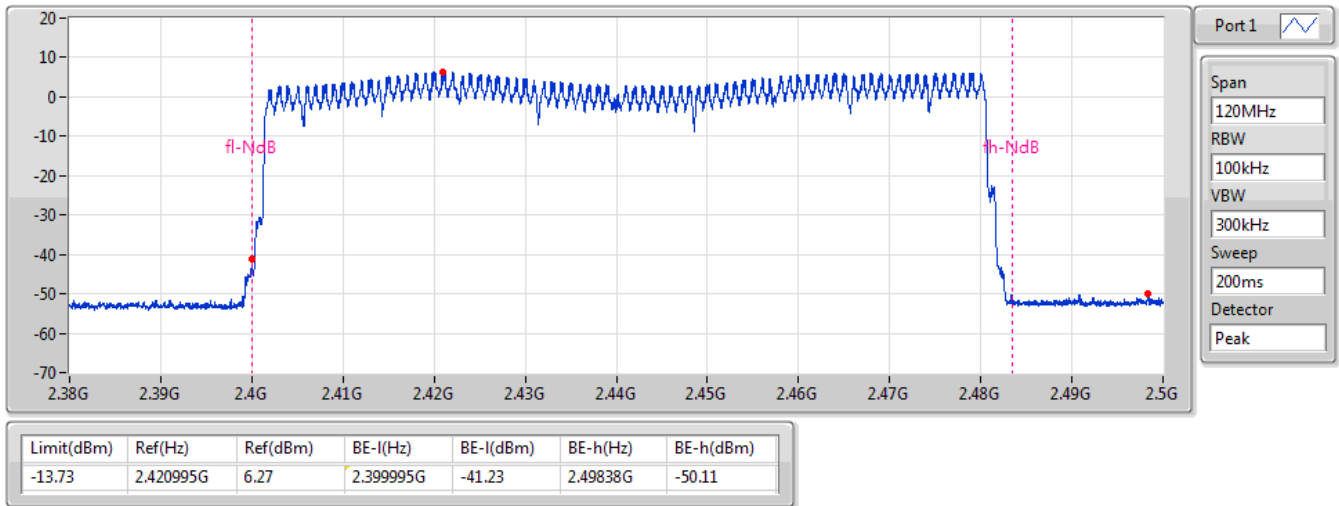


BT-EDR(2Mbps)

2440MHz

Hopping Ch Bandedge (Non-restricted Band)

02/06/2021

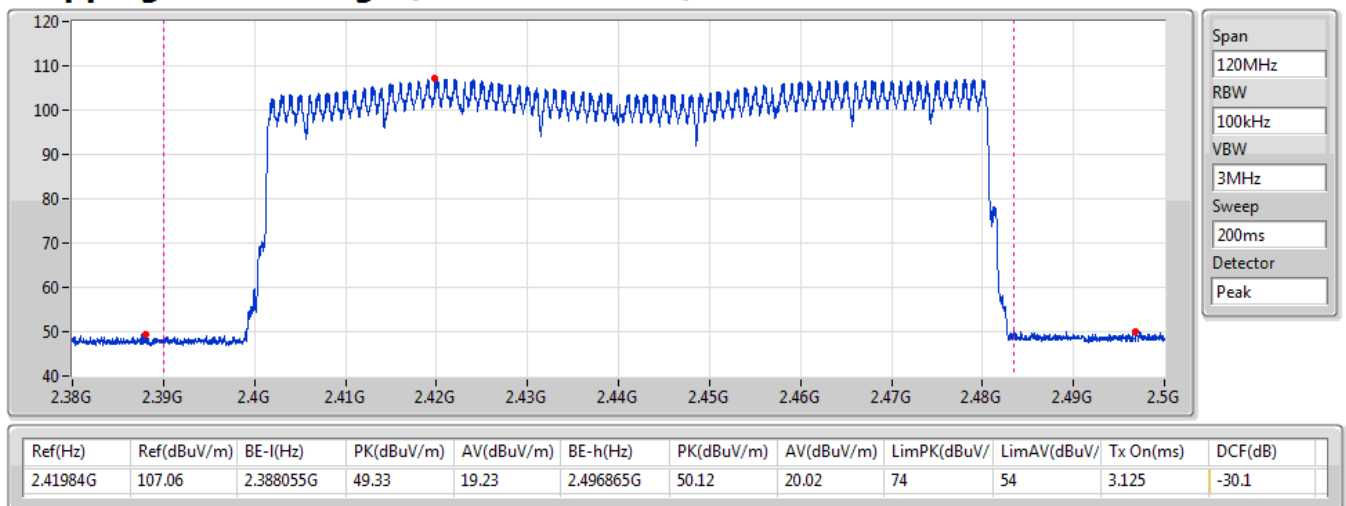


BT-EDR(2Mbps)

2440MHz

Hopping Ch Bandedge (Restricted Band)

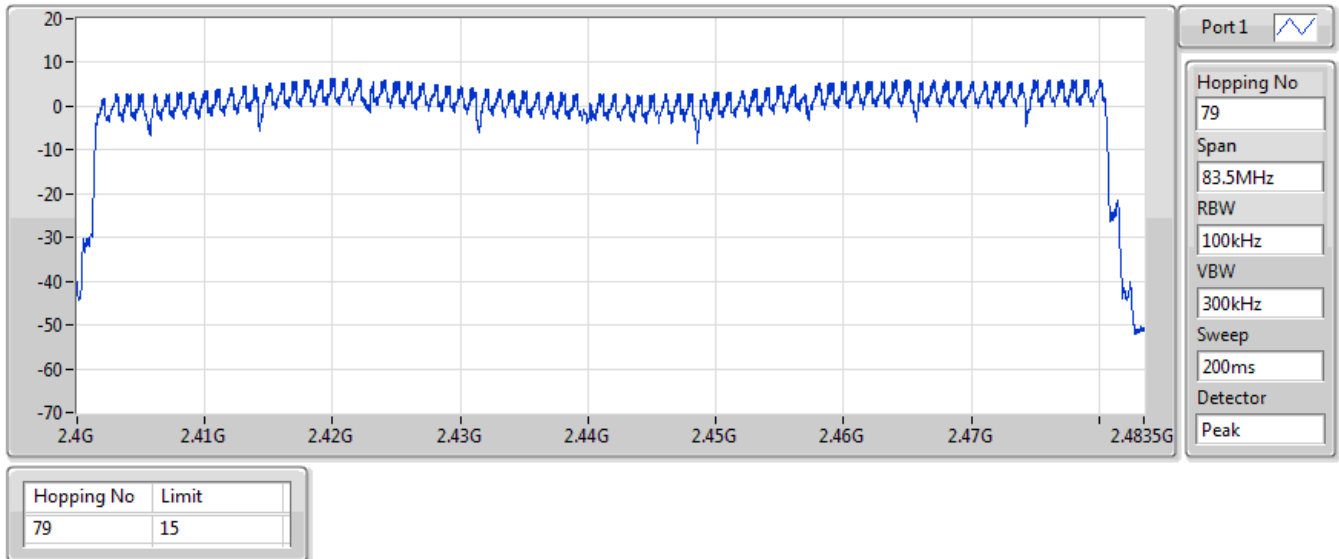
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BT-EDR(3Mbps) 2440MHz

Hopping-FS

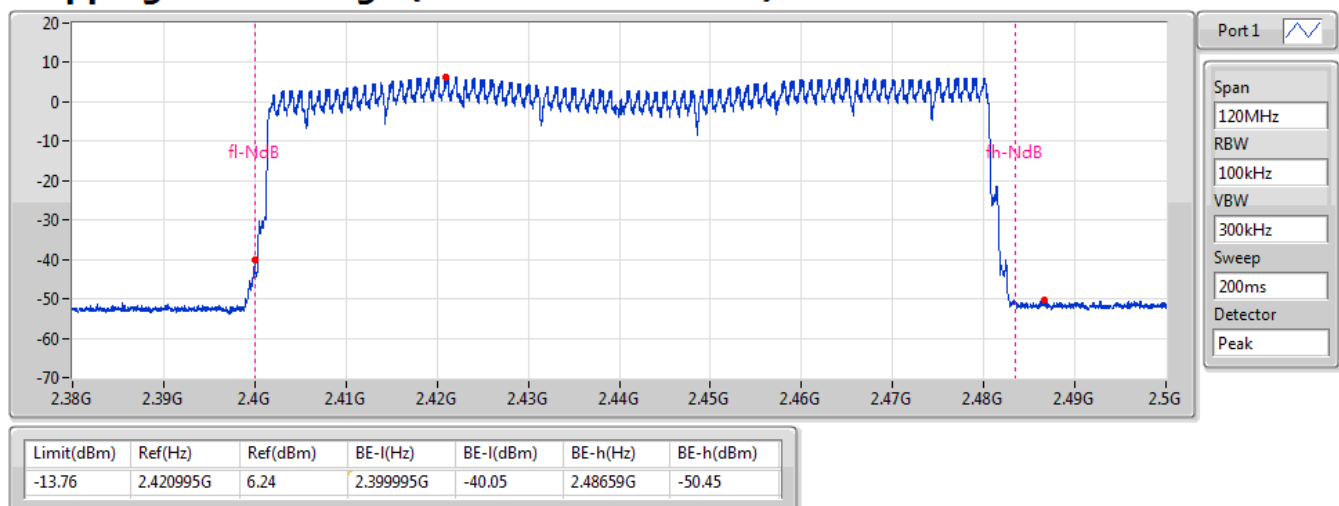
02/06/2021



BT-EDR(3Mbps) 2440MHz

Hopping Ch Bandedge (Non-restricted Band)

02/06/2021

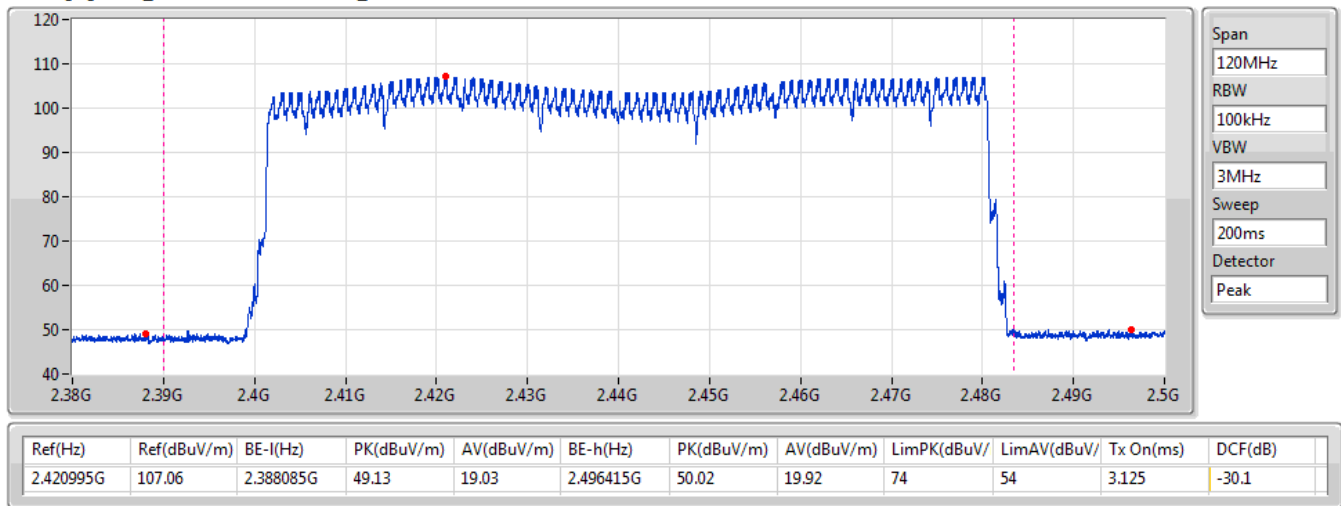


BT-EDR(3Mbps)

2440MHz

Hopping Ch Bandedge (Restricted Band)

02/06/2021





Summary

Mode	Max-Dwell (s)
2.4-2.4835GHz	-
BT-BR(1Mbps)	311.1121m_DH5
BT-EDR(2Mbps)	312.0715m_DH5
BT-EDR(3Mbps)	312.2314m_DH5

Result

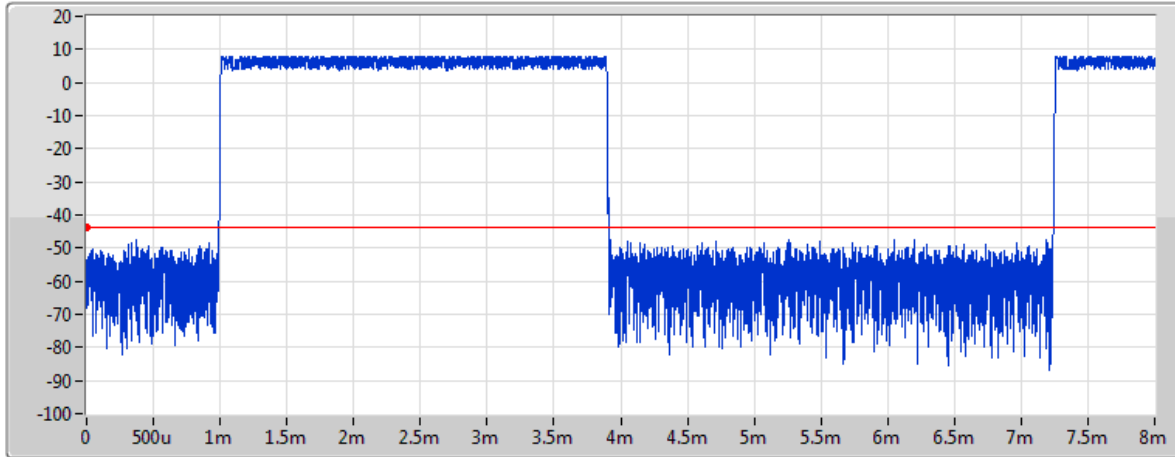
Mode	Result	Period (s)	Dwell (s)	Limit (s)	Tx On (s)
BT-BR(1Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	311.1121m_DH5	400m	2.9185m
2440MHz	Pass	8	155.542725m_DH5-AFH	400m	2.91825m
BT-EDR(2Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	312.0715m_DH5	400m	2.9275m
2440MHz	Pass	8	156.075725m_DH5-AFH	400m	2.92825m
BT-EDR(3Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	312.2314m_DH5	400m	2.929m
2440MHz	Pass	8	156.129025m_DH5-AFH	400m	2.92925m

BT-BR(1Mbps)

Dwell-FS

2440MHz

02/06/2021



Port 1 

Ch Freq
2.44GHz

RBW
300kHz

VBW
1MHz

Sweep Time
8ms

TX Time
2.9185ms

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	311.1121m_DH5	400m	2.9185m

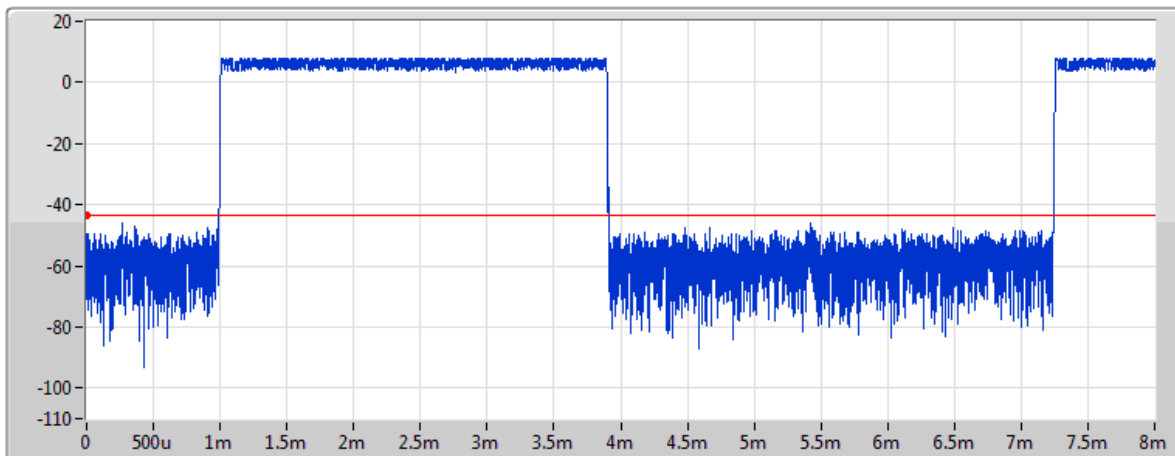
DH5

BT-BR(1Mbps)

Dwell-FS

2440MHz

02/06/2021



Port 1 

Ch Freq
2.44GHz

RBW
300kHz

VBW
1MHz

Sweep Time
8ms

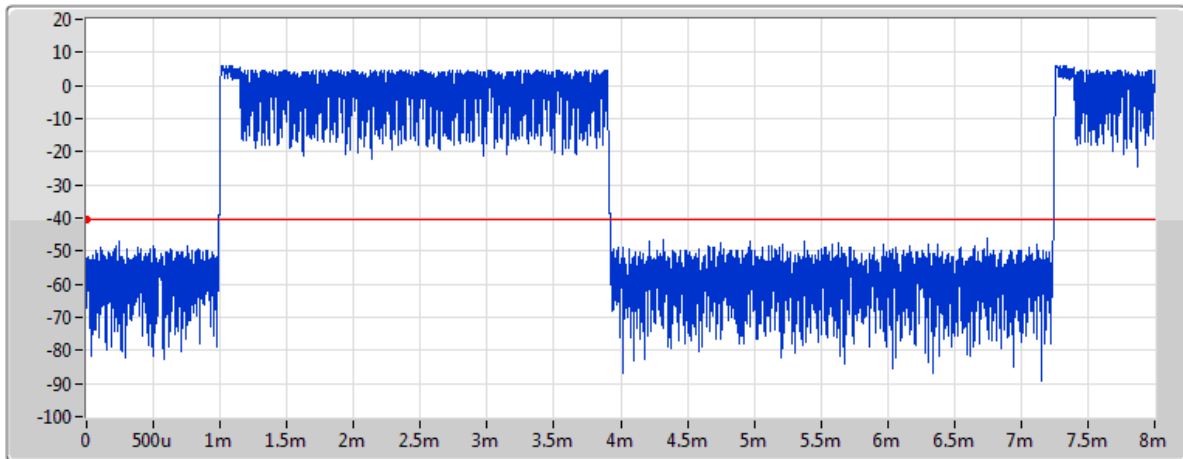
TX Time
2.91825ms

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
8	155.542725m_DH5-AFI	400m	2.91825m

DH5-AFH

BT-EDR(2Mbps)

2440MHz



Port 1 

Ch Freq
2.44GHz

RBW
300kHz

VBW
1MHz

Sweep Time
8ms

TX Time
2.9275ms

02/06/2021

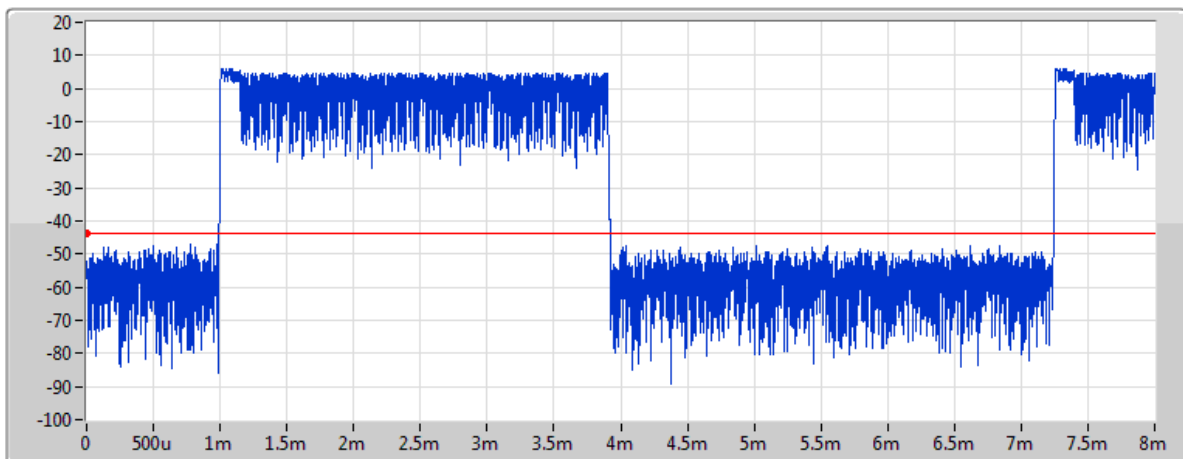
Dwell-FS

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	312.0715m_DH5	400m	2.9275m

DH5

BT-EDR(2Mbps)

2440MHz



Port 1 

Ch Freq
2.44GHz

RBW
300kHz

VBW
1MHz

Sweep Time
8ms

TX Time
2.92825ms

02/06/2021

Dwell-FS

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
8	156.075725m_DH5-AFH	400m	2.92825m

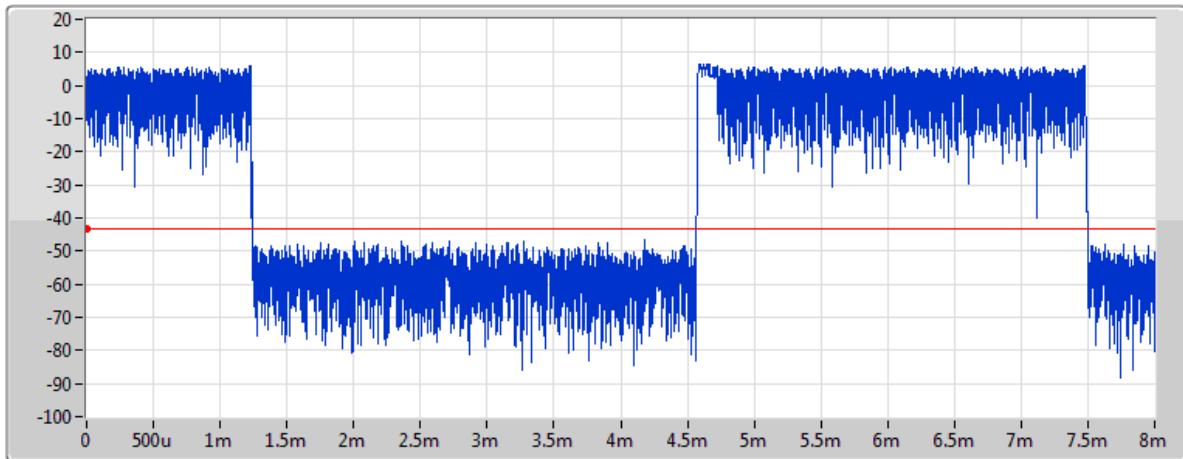
DH5-AFH

BT-EDR(3Mbps)

2440MHz

Dwell-FS

02/06/2021



Port 1 

Ch Freq
2.44GHz

RBW
300kHz

VBW
1MHz

Sweep Time
8ms

TX Time
2.929ms

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	312.2314m_DH5	400m	2.929m

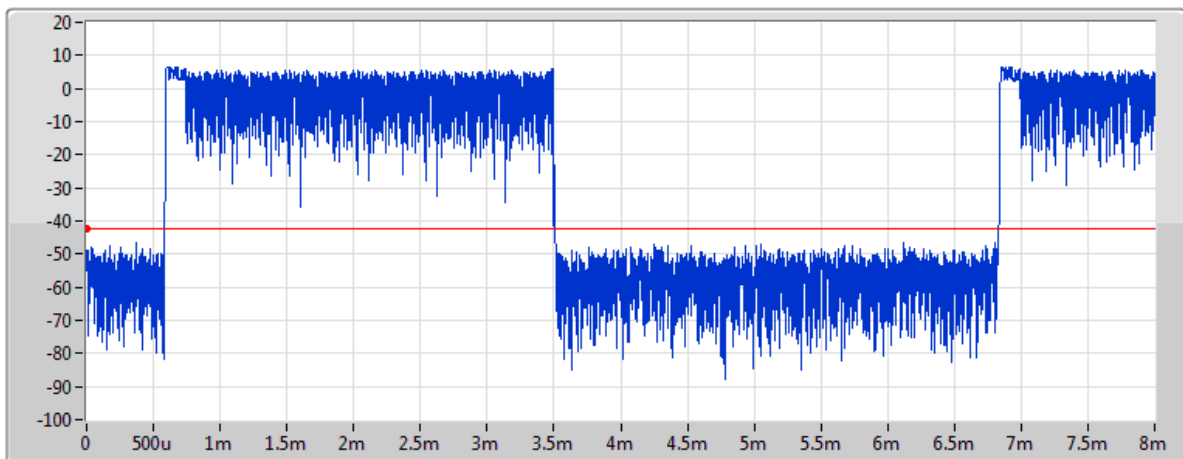
DH5

BT-EDR(3Mbps)

2440MHz

Dwell-FS

02/06/2021



Port 1 

Ch Freq
2.44GHz

RBW
300kHz

VBW
1MHz

Sweep Time
8ms

TX Time
2.92925ms

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
8	156.129025m_DH5-AF	400m	2.92925m

DH5-AFH

Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-BR(1Mbps)	Pass	2.40217G	4.32	-15.68	2.13031G	-53.80	2.3997G	-40.55	2.4G	-44.22	2.4919G	-51.87	23.27339G	-40.38	1
BT-EDR(2Mbps)	Pass	2.40184G	0.29	-19.71	2.11886G	-54.09	2.39993G	-44.08	2.4G	-40.88	2.50109G	-51.89	16.55538G	-41.97	1
BT-EDR(3Mbps)	Pass	2.40213G	1.48	-18.52	2.16233G	-53.60	2.4G	-41.04	2.4G	-43.68	2.48726G	-51.63	16.96875G	-41.73	1

Result

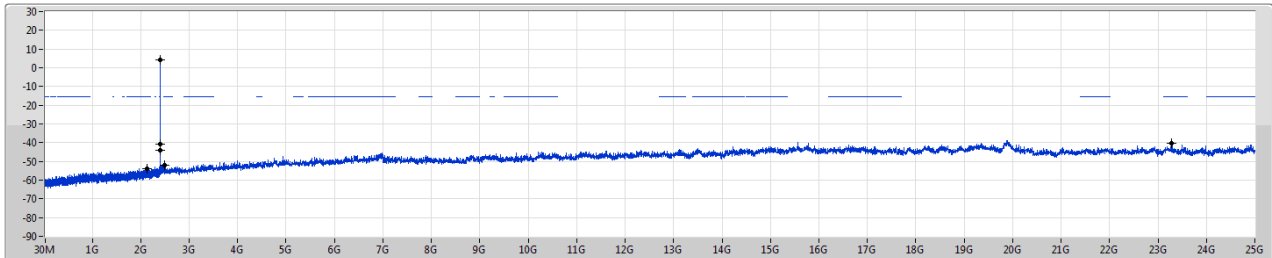
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40217G	4.32	-15.68	2.13031G	-53.80	2.3997G	-40.55	2.4G	-44.22	2.4919G	-51.87	23.27339G	-40.38	1
2440MHz	Pass	2.44G	5.06	-14.94	2.12796G	-53.14	2.39986G	-52.94	2.4835G	-54.83	2.49856G	-51.68	15.32088G	-41.89	1
2480MHz	Pass	2.47987G	7.21	-12.79	2.30568G	-53.66	2.39668G	-53.19	2.4835G	-51.40	2.48452G	-50.22	16.8169G	-41.58	1
BT-EDR(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40184G	0.29	-19.71	2.11886G	-54.09	2.39993G	-44.08	2.4G	-40.88	2.50109G	-51.89	16.55538G	-41.97	1
2440MHz	Pass	2.43979G	1.36	-18.64	2.30098G	-53.79	2.39356G	-52.32	2.4835G	-54.36	2.4918G	-51.16	15.07904G	-41.24	1
2480MHz	Pass	2.48016G	5.88	-14.12	2.13942G	-53.74	2.39063G	-52.84	2.4835G	-52.44	2.4835G	-51.03	16.71848G	-41.16	1
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40213G	1.48	-18.52	2.16233G	-53.60	2.4G	-41.04	2.4G	-43.68	2.48726G	-51.63	16.96875G	-41.73	1
2440MHz	Pass	2.44021G	1.58	-18.42	2.16263G	-54.10	2.39319G	-52.41	2.4835G	-55.04	2.48888G	-51.53	16.935G	-41.75	1
2480MHz	Pass	2.48016G	5.94	-14.06	2.10241G	-53.44	2.39714G	-52.94	2.4835G	-49.80	2.48681G	-52.10	24.87346G	-41.97	1

BT-BR(1Mbps)

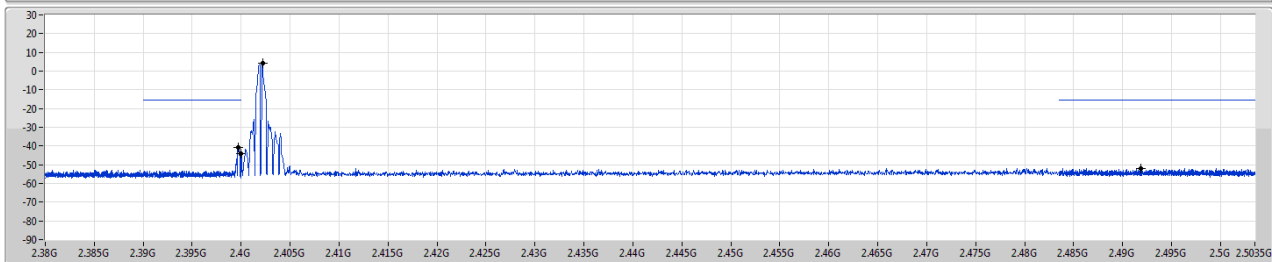
CSENdB-FS

2402MHz

02/06/2021



Port1



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

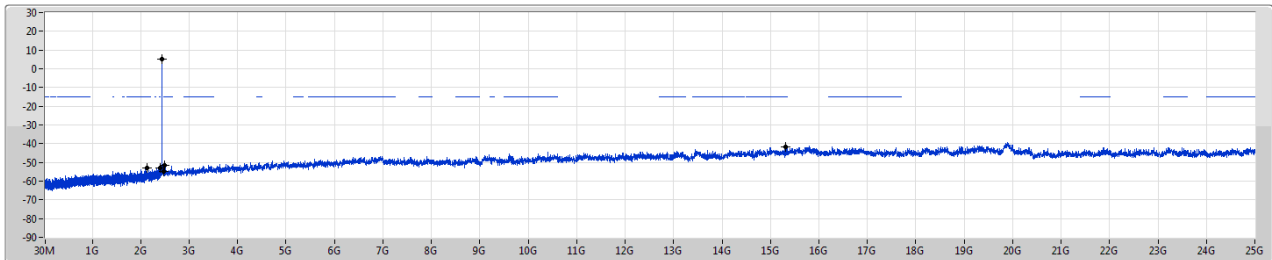
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.40217G	4.32	-15.68	2.13051G	-53.80	2.3997G	-40.55	2.4G	-44.22	2.4919G	-51.87	23.27339G	-40.38	1

BT-BR(1Mbps)

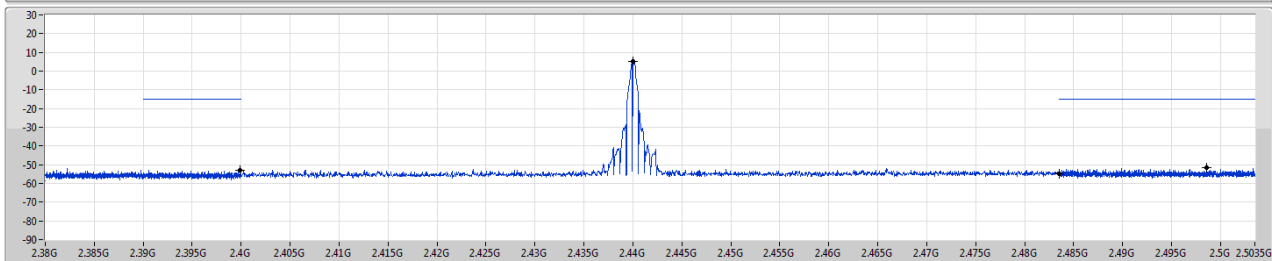
CSENdB-FS

2440MHz

02/06/2021



Port1



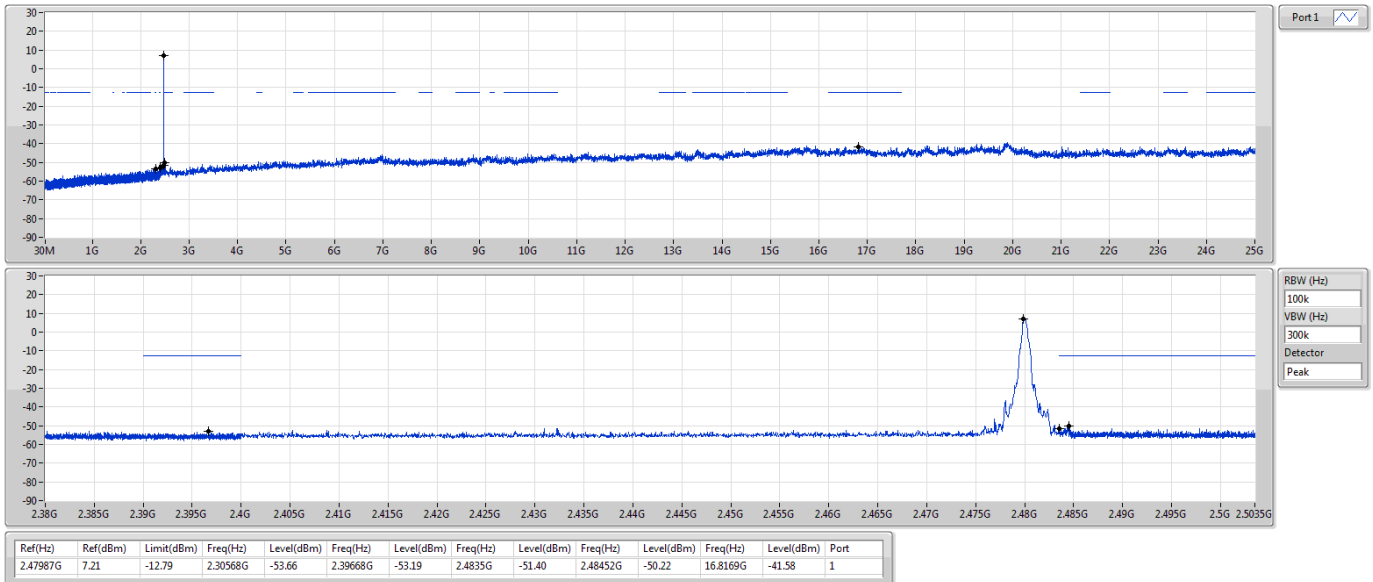
RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

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
2.44G	5.06	-14.94	2.12796G	-53.14	2.39986G	-52.94	2.4835G	-54.83	2.49856G	-51.68	15.32088G	-41.89	1

BT-BR(1Mbps)

CSEndB-FS

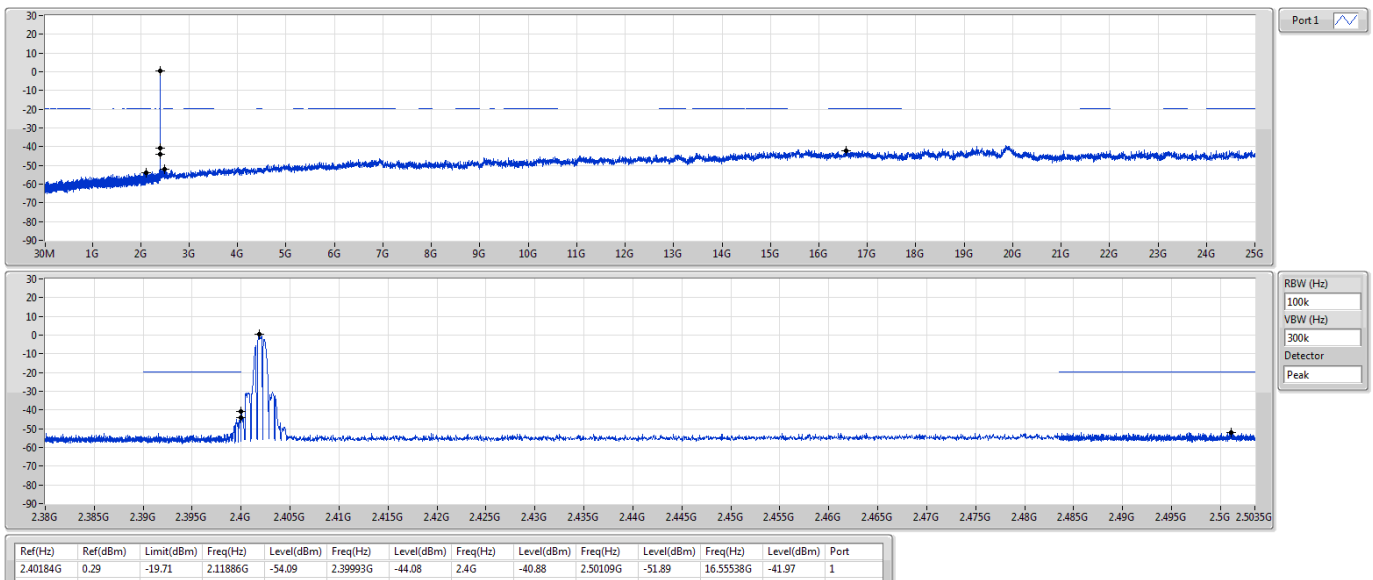
2480MHz



BT-EDR(2Mbps)

CSEndB-FS

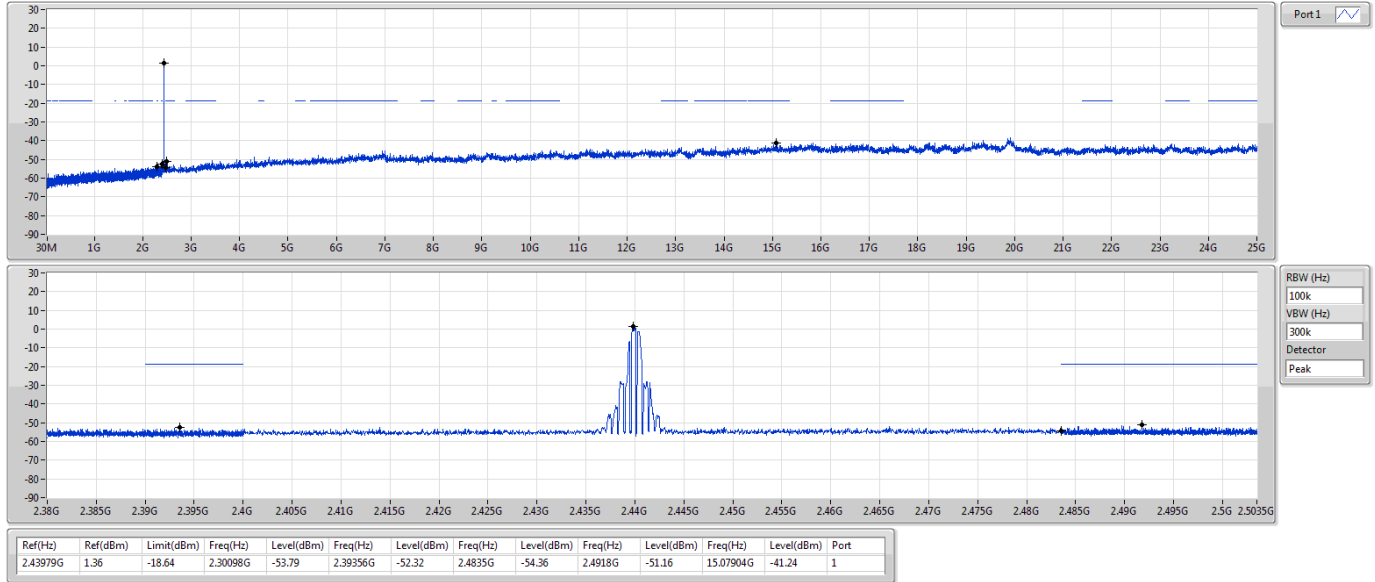
2402MHz



BT-EDR(2Mbps)

CSEndB-FS

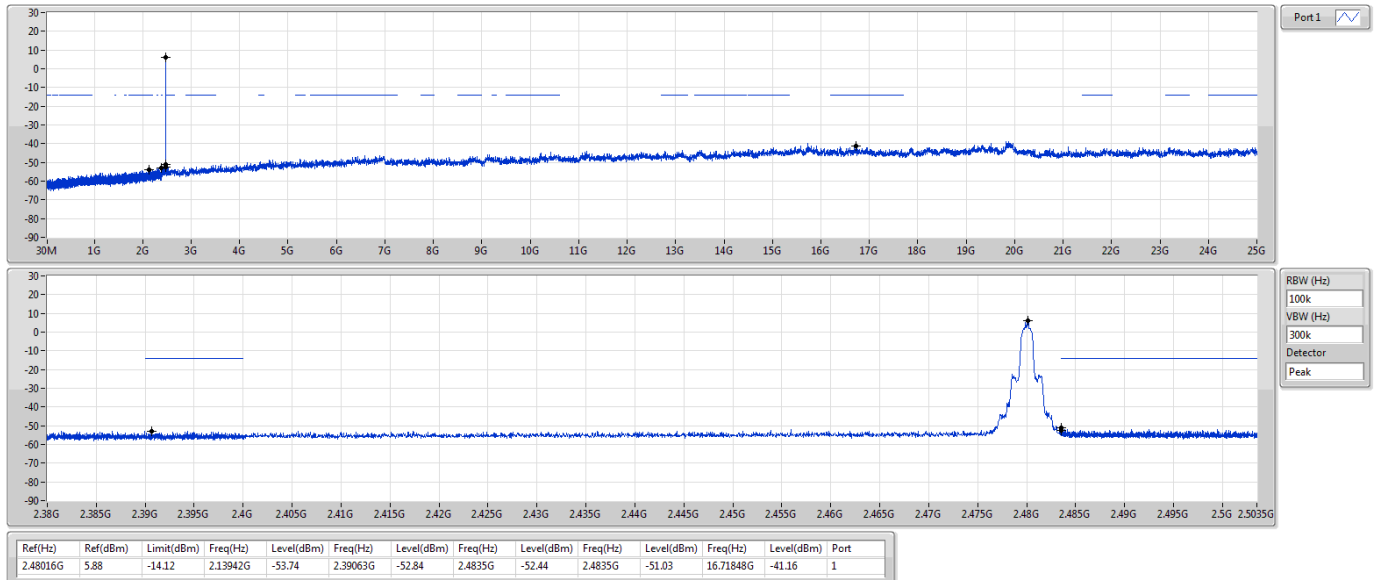
2440MHz



BT-EDR(2Mbps)

CSEndB-FS

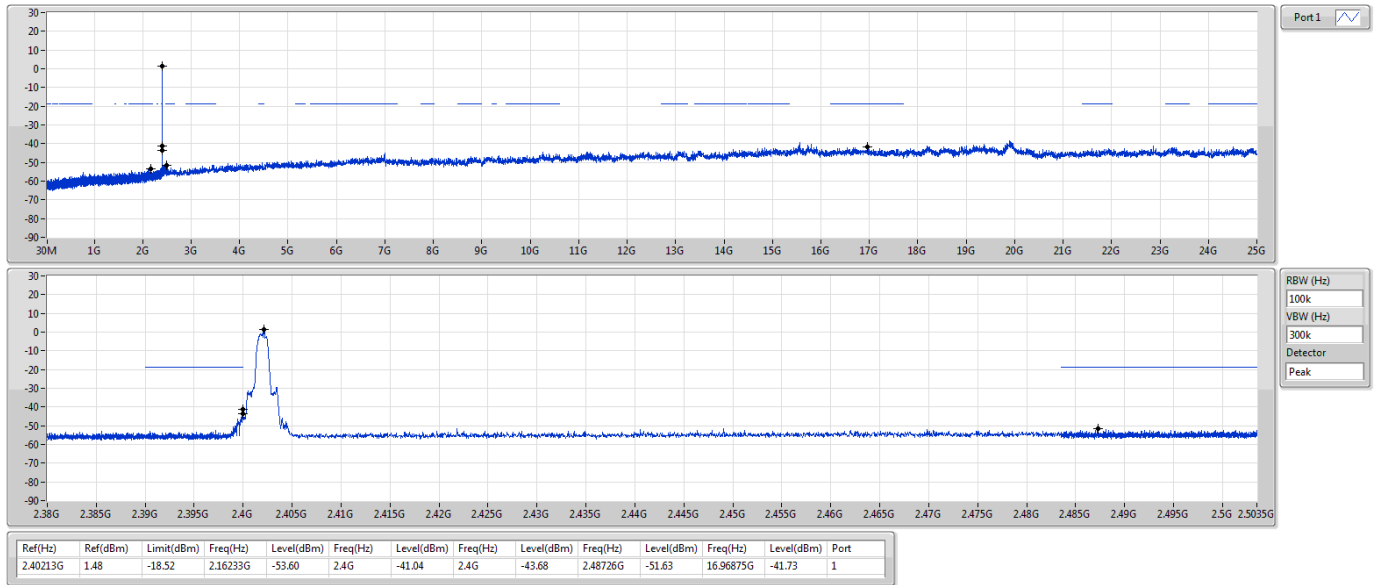
2480MHz



BT-EDR(3Mbps)

CSEndB-FS

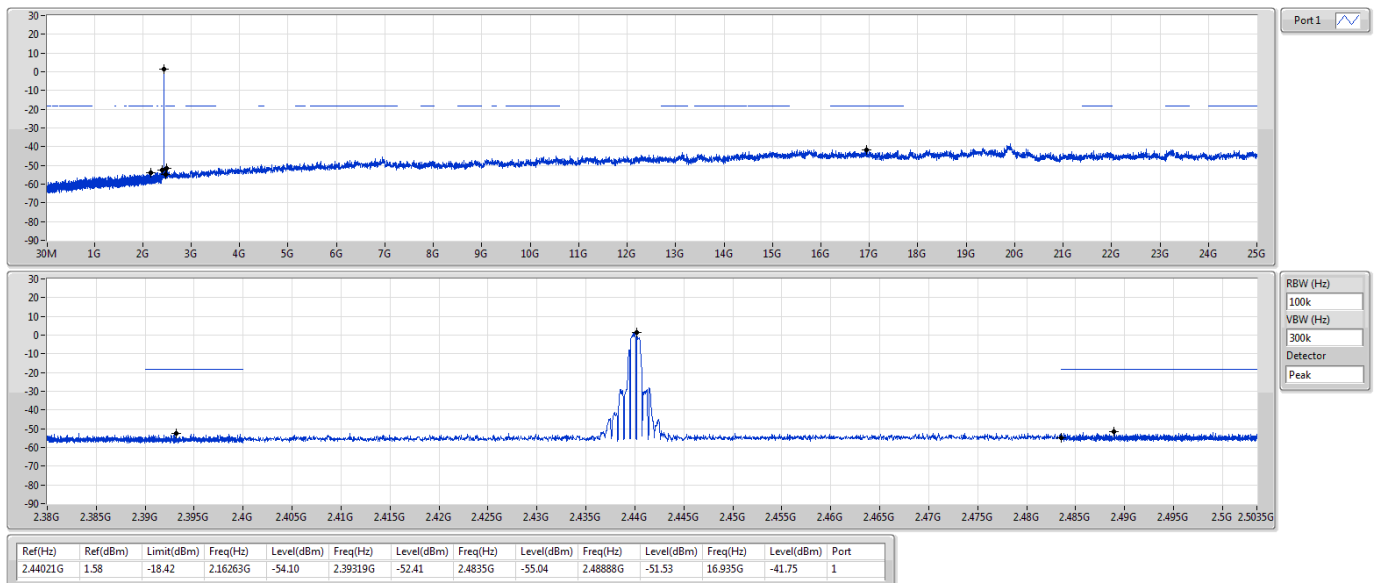
2402MHz



BT-EDR(3Mbps)

CSEndB-FS

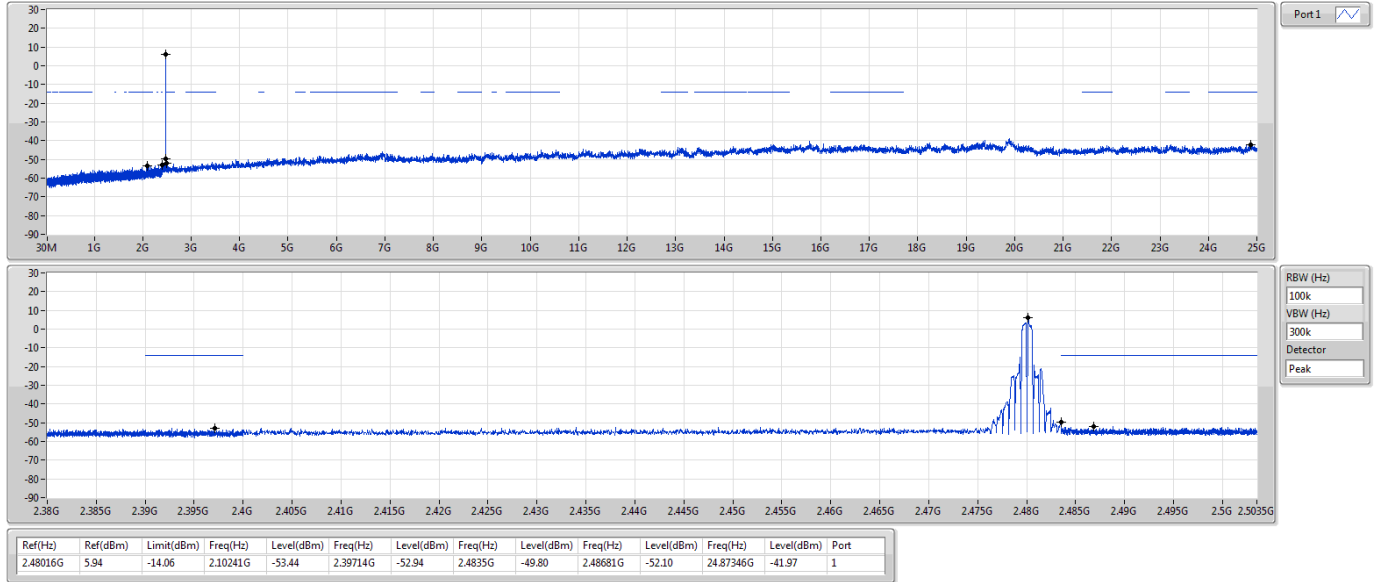
2440MHz



BT-EDR(3Mbps)

CSEndB-FS

2480MHz





Summary

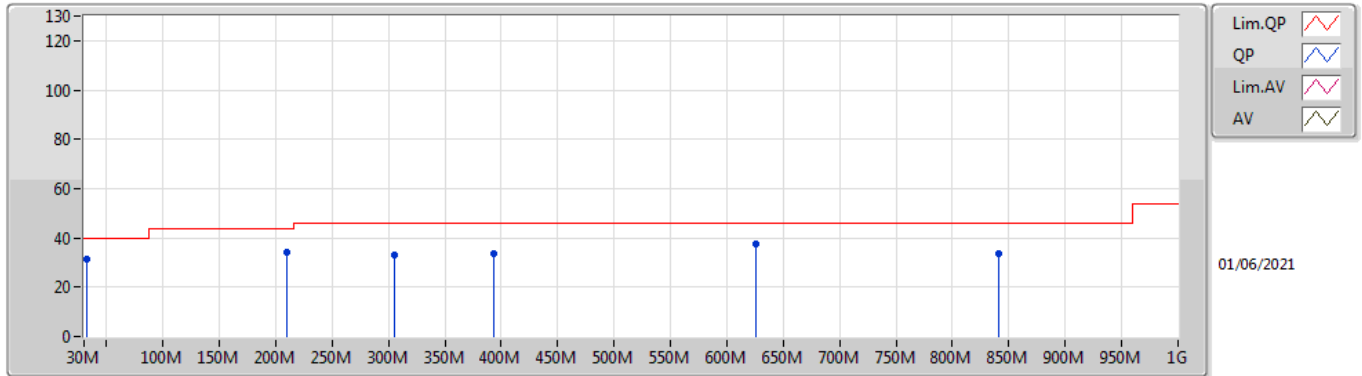
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
BT-BR(1Mbps)	Pass	PK	86.26M	33.87	40.00	-6.13	3	Horizontal	360	1.00	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	PK	210.42M	34.40	43.50	-9.10	3	Vertical	0	1.00	-
2440MHz	Pass	PK	305.48M	33.21	46.00	-12.79	3	Vertical	0	1.00	-
2440MHz	Pass	PK	392.78M	33.45	46.00	-12.55	3	Vertical	0	1.00	-
2440MHz	Pass	PK	625.58M	37.78	46.00	-8.22	3	Vertical	0	1.00	-
2440MHz	Pass	PK	840.92M	33.66	46.00	-12.34	3	Vertical	0	1.00	-
2440MHz	Pass	QP	31.94M	31.13	40.00	-8.87	3	Vertical	352	1.00	-
2440MHz	Pass	PK	86.26M	33.87	40.00	-6.13	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	97.9M	34.08	43.50	-9.42	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	338.46M	30.36	46.00	-15.64	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	681.84M	35.28	46.00	-10.72	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	840.92M	33.38	46.00	-12.62	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	951.5M	31.33	46.00	-14.67	3	Horizontal	360	1.00	-

BT-BR(1Mbps)

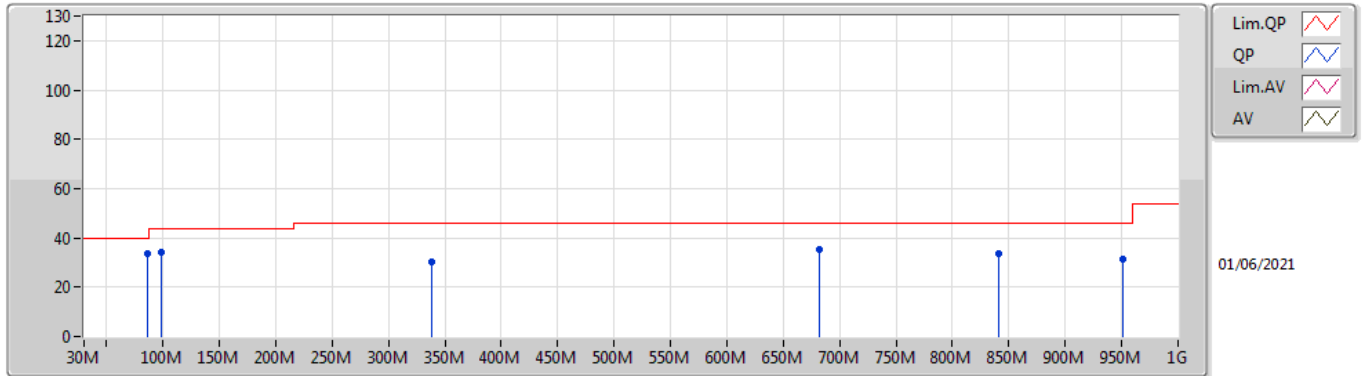
2440MHz_PoE



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	210.42M	34.40	43.50	-9.10	-20.72	3	Vertical	0	1.00	-	55.12	14.22	1.36	36.30
PK	305.48M	33.21	46.00	-12.79	-16.39	3	Vertical	0	1.00	-	49.60	18.38	1.68	36.45
PK	392.78M	33.45	46.00	-12.55	-13.84	3	Vertical	0	1.00	-	47.29	20.83	1.89	36.56
PK	625.58M	37.78	46.00	-8.22	-9.24	3	Vertical	0	1.00	-	47.02	25.40	2.55	37.19
PK	840.92M	33.66	46.00	-12.34	-6.49	3	Vertical	0	1.00	-	40.15	28.20	2.91	37.60
QP	31.94M	31.13	40.00	-8.87	-14.08	3	Vertical	352	1.00	-	45.21	22.44	0.60	37.12

BT-BR(1Mbps)

2440MHz_PoE



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	86.26M	33.87	40.00	-6.13	-22.50	3	Horizontal	360	1.00	-	56.37	13.36	0.92	36.78
PK	97.9M	34.08	43.50	-9.42	-20.68	3	Horizontal	360	1.00	-	54.76	15.00	0.97	36.65
PK	338.46M	30.36	46.00	-15.64	-15.48	3	Horizontal	360	1.00	-	45.84	19.28	1.75	36.51
PK	681.84M	35.28	46.00	-10.72	-8.99	3	Horizontal	360	1.00	-	44.27	25.63	2.66	37.28
PK	840.92M	33.38	46.00	-12.62	-6.49	3	Horizontal	360	1.00	-	39.87	28.20	2.91	37.60
PK	951.5M	31.33	46.00	-14.67	-4.39	3	Horizontal	360	1.00	-	35.72	30.07	3.10	37.56



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
BT-BR(1Mbps)	Pass	PK	2.4944G	60.09	74.00	-13.91	3	Vertical	299	1.10	-
BT-EDR(3Mbps)	Pass	AV	7.31976G	30.63	54.00	-11.05	3	Horizontal	324	2.10	-

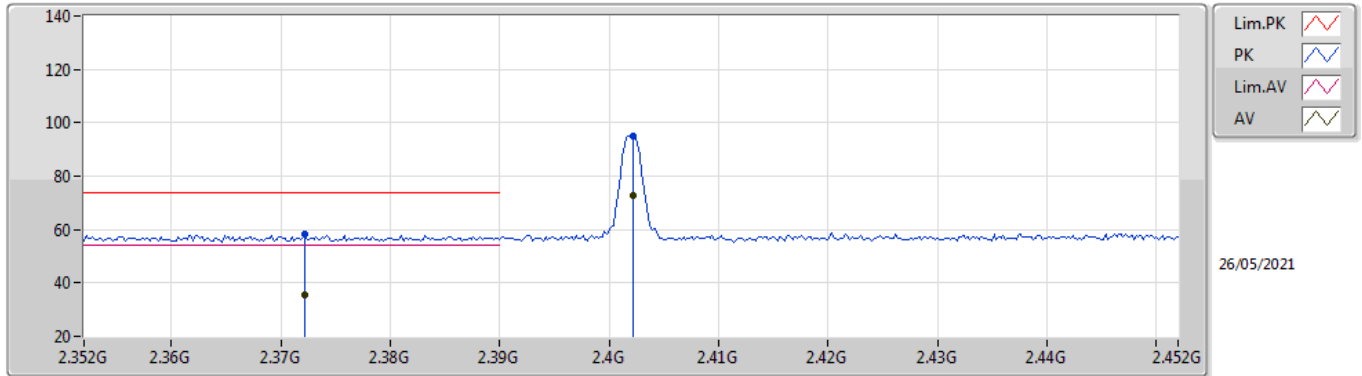
Result

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	2.3722G	35.68	54.00	-18.32	3	Vertical	310	1.04	-
2402MHz	Pass	AV	2.4022G	72.54	Inf	-Inf	3	Vertical	310	1.04	-
2402MHz	Pass	PK	2.3722G	58.18	74.00	-15.82	3	Vertical	310	1.04	-
2402MHz	Pass	PK	2.4022G	95.04	Inf	-Inf	3	Vertical	310	1.04	-
2402MHz	Pass	AV	2.3792G	35.80	54.00	-18.20	3	Horizontal	360	1.10	-
2402MHz	Pass	AV	2.4022G	82.69	Inf	-Inf	3	Horizontal	360	1.10	-
2402MHz	Pass	PK	2.3792G	58.30	74.00	-15.70	3	Horizontal	360	1.10	-
2402MHz	Pass	PK	2.4022G	105.19	Inf	-Inf	3	Horizontal	360	1.10	-
2402MHz	Pass	AV	4.80423G	27.43	54.00	-26.57	3	Vertical	325	2.12	-
2402MHz	Pass	PK	4.80423G	49.93	74.00	-24.07	3	Vertical	325	2.12	-
2402MHz	Pass	AV	4.80376G	29.00	54.00	-25.00	3	Horizontal	334	1.47	-
2402MHz	Pass	PK	4.80376G	51.50	74.00	-22.50	3	Horizontal	334	1.47	-
2440MHz	Pass	AV	2.3532G	35.66	54.00	-18.34	3	Vertical	299	1.10	-
2440MHz	Pass	AV	2.44G	73.36	Inf	-Inf	3	Vertical	299	1.10	-
2440MHz	Pass	AV	2.4944G	37.59	54.00	-16.41	3	Vertical	299	1.10	-
2440MHz	Pass	PK	2.3532G	58.16	74.00	-15.84	3	Vertical	299	1.10	-
2440MHz	Pass	PK	2.44G	95.86	Inf	-Inf	3	Vertical	299	1.10	-
2440MHz	Pass	PK	2.4944G	60.09	74.00	-13.91	3	Vertical	299	1.10	-
2440MHz	Pass	AV	2.3852G	35.64	54.00	-18.36	3	Horizontal	360	1.03	-
2440MHz	Pass	AV	2.44G	82.97	Inf	-Inf	3	Horizontal	360	1.03	-
2440MHz	Pass	AV	2.4936G	36.82	54.00	-17.18	3	Horizontal	360	1.03	-
2440MHz	Pass	PK	2.3852G	58.14	74.00	-15.86	3	Horizontal	360	1.03	-
2440MHz	Pass	PK	2.44G	105.47	Inf	-Inf	3	Horizontal	360	1.03	-
2440MHz	Pass	PK	2.4936G	59.32	74.00	-14.68	3	Horizontal	360	1.03	-
2440MHz	Pass	AV	4.88021G	26.64	54.00	-27.36	3	Vertical	331	2.22	-
2440MHz	Pass	AV	7.3197G	31.64	54.00	-22.36	3	Vertical	351	1.98	-
2440MHz	Pass	PK	4.88021G	49.14	74.00	-24.86	3	Vertical	331	2.22	-
2440MHz	Pass	PK	7.3197G	54.14	74.00	-19.86	3	Vertical	351	1.98	-
2440MHz	Pass	AV	4.88001G	29.01	54.00	-24.99	3	Horizontal	338	1.71	-
2440MHz	Pass	AV	7.32055G	32.77	54.00	-21.23	3	Horizontal	328	2.01	-
2440MHz	Pass	PK	4.88001G	51.51	74.00	-22.49	3	Horizontal	338	1.71	-
2440MHz	Pass	PK	7.32055G	55.27	74.00	-18.73	3	Horizontal	328	2.01	-
2480MHz	Pass	AV	2.4802G	75.44	Inf	-Inf	3	Vertical	301	1.17	-
2480MHz	Pass	AV	2.4976G	37.23	54.00	-16.77	3	Vertical	301	1.17	-
2480MHz	Pass	PK	2.4802G	97.94	Inf	-Inf	3	Vertical	301	1.17	-
2480MHz	Pass	PK	2.4976G	59.73	74.00	-14.27	3	Vertical	301	1.17	-
2480MHz	Pass	AV	2.4802G	85.88	Inf	-Inf	3	Horizontal	360	1.07	-
2480MHz	Pass	AV	2.4838G	36.46	54.00	-17.54	3	Horizontal	360	1.07	-
2480MHz	Pass	PK	2.4802G	108.38	Inf	-Inf	3	Horizontal	360	1.07	-
2480MHz	Pass	PK	2.4838G	58.96	74.00	-15.04	3	Horizontal	360	1.07	-
2480MHz	Pass	AV	4.95046G	23.81	54.00	-30.19	3	Vertical	314	1.48	-
2480MHz	Pass	AV	7.43995G	32.06	54.00	-21.94	3	Vertical	350	2.01	-
2480MHz	Pass	PK	4.95046G	46.31	74.00	-27.69	3	Vertical	314	1.48	-
2480MHz	Pass	PK	7.43995G	54.56	74.00	-19.44	3	Vertical	350	2.01	-
2480MHz	Pass	AV	4.96028G	26.63	54.00	-27.37	3	Horizontal	360	1.96	-
2480MHz	Pass	AV	7.43979G	32.38	54.00	-21.62	3	Horizontal	328	2.02	-
2480MHz	Pass	PK	4.96028G	49.13	74.00	-24.87	3	Horizontal	360	1.96	-
2480MHz	Pass	PK	7.43979G	54.88	74.00	-19.12	3	Horizontal	328	2.02	-
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3632G	36.08	54.00	-17.92	3	Vertical	307	1.03	-
2402MHz	Pass	AV	2.402G	70.48	Inf	-Inf	3	Vertical	307	1.03	-
2402MHz	Pass	PK	2.3632G	58.58	74.00	-15.42	3	Vertical	307	1.03	-
2402MHz	Pass	PK	2.402G	92.98	Inf	-Inf	3	Vertical	307	1.03	-
2402MHz	Pass	AV	2.3608G	36.12	54.00	-17.88	3	Horizontal	360	2.91	-
2402MHz	Pass	AV	2.4018G	80.48	Inf	-Inf	3	Horizontal	360	2.91	-
2402MHz	Pass	PK	2.3608G	58.62	74.00	-15.38	3	Horizontal	360	2.91	-
2402MHz	Pass	PK	2.4018G	102.98	Inf	-Inf	3	Horizontal	360	2.91	-
2402MHz	Pass	AV	4.80357G	26.40	54.00	-27.60	3	Vertical	327	2.09	-
2402MHz	Pass	PK	4.80357G	48.90	74.00	-25.10	3	Vertical	327	2.09	-
2402MHz	Pass	AV	4.80342G	27.94	54.00	-26.06	3	Horizontal	336	1.44	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2402MHz	Pass	PK	4.80342G	50.44	74.00	-23.56	3	Horizontal	336	1.44	-
2440MHz	Pass	AV	2.3572G	35.60	54.00	-18.40	3	Vertical	297	1.10	-
2440MHz	Pass	AV	2.44G	71.47	Inf	-Inf	3	Vertical	297	1.10	-
2440MHz	Pass	AV	2.4896G	36.36	54.00	-17.64	3	Vertical	297	1.10	-
2440MHz	Pass	PK	2.3572G	58.10	74.00	-15.90	3	Vertical	297	1.10	-
2440MHz	Pass	PK	2.44G	93.97	Inf	-Inf	3	Vertical	297	1.10	-
2440MHz	Pass	PK	2.4896G	58.86	74.00	-15.14	3	Vertical	297	1.10	-
2440MHz	Pass	AV	2.3792G	35.26	54.00	-18.74	3	Horizontal	360	1.03	-
2440MHz	Pass	AV	2.44G	81.08	Inf	-Inf	3	Horizontal	360	1.03	-
2440MHz	Pass	AV	2.4916G	36.47	54.00	-17.53	3	Horizontal	360	1.03	-
2440MHz	Pass	PK	2.3792G	57.76	74.00	-16.24	3	Horizontal	360	1.03	-
2440MHz	Pass	PK	2.44G	103.58	Inf	-Inf	3	Horizontal	360	1.03	-
2440MHz	Pass	PK	2.4916G	58.97	74.00	-15.03	3	Horizontal	360	1.03	-
2440MHz	Pass	AV	4.87964G	25.80	54.00	-28.20	3	Vertical	328	2.16	-
2440MHz	Pass	AV	7.32276G	29.36	54.00	-24.64	3	Vertical	349	1.89	-
2440MHz	Pass	PK	4.87964G	48.30	74.00	-25.70	3	Vertical	328	2.16	-
2440MHz	Pass	PK	7.32276G	51.86	74.00	-22.14	3	Vertical	349	1.89	-
2440MHz	Pass	AV	4.87978G	27.56	54.00	-26.44	3	Horizontal	340	1.63	-
2440MHz	Pass	AV	7.31976G	30.63	54.00	-11.05	3	Horizontal	324	2.10	-
2440MHz	Pass	PK	4.87978G	50.06	74.00	-23.94	3	Horizontal	340	1.63	-
2440MHz	Pass	PK	7.31976G	53.13	74.00	-20.87	3	Horizontal	324	2.10	-
2480MHz	Pass	AV	2.48G	74.39	Inf	-Inf	3	Vertical	300	1.16	-
2480MHz	Pass	AV	2.4992G	37.15	54.00	-16.85	3	Vertical	300	1.16	-
2480MHz	Pass	PK	2.48G	96.89	Inf	-Inf	3	Vertical	300	1.16	-
2480MHz	Pass	PK	2.4992G	59.65	74.00	-14.35	3	Vertical	300	1.16	-
2480MHz	Pass	AV	2.48G	84.92	Inf	-Inf	3	Horizontal	360	1.10	-
2480MHz	Pass	AV	2.4835G	39.77	54.00	-14.23	3	Horizontal	360	1.10	-
2480MHz	Pass	PK	2.48G	107.42	Inf	-Inf	3	Horizontal	360	1.10	-
2480MHz	Pass	PK	2.4835G	62.27	74.00	-11.73	3	Horizontal	360	1.10	-
2480MHz	Pass	AV	4.95948G	24.82	54.00	-29.18	3	Vertical	27	2.50	-
2480MHz	Pass	AV	7.44128G	30.11	54.00	-23.89	3	Vertical	32	2.46	-
2480MHz	Pass	PK	4.95948G	47.32	74.00	-26.68	3	Vertical	27	2.50	-
2480MHz	Pass	PK	7.44128G	52.61	74.00	-21.39	3	Vertical	32	2.46	-
2480MHz	Pass	AV	4.96059G	25.50	54.00	-28.50	3	Horizontal	5	1.50	-
2480MHz	Pass	AV	7.44213G	30.75	54.00	-23.25	3	Horizontal	326	1.82	-
2480MHz	Pass	PK	4.96059G	48.00	74.00	-26.00	3	Horizontal	5	1.50	-
2480MHz	Pass	PK	7.44213G	53.25	74.00	-20.75	3	Horizontal	326	1.82	-

BT-BR(1Mbps)

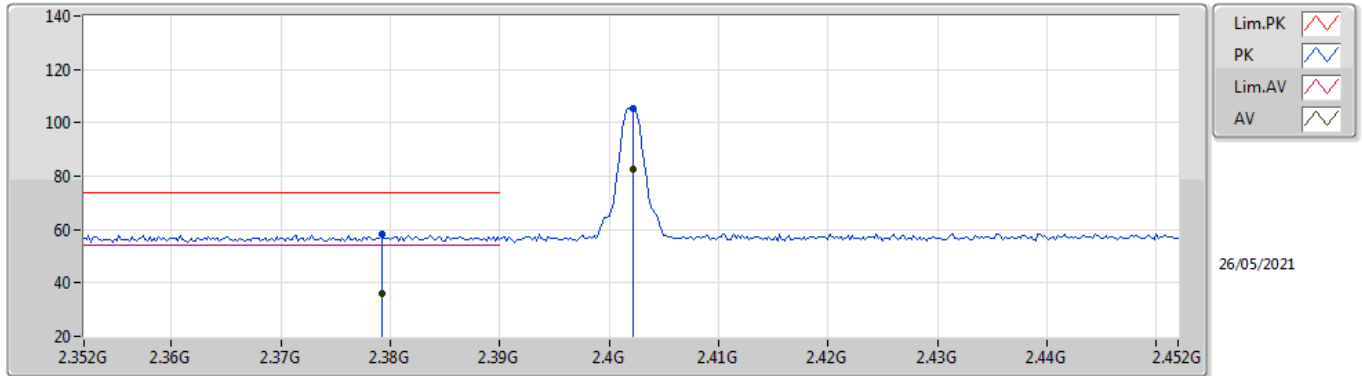
2402MHz_TX



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	2.3722G	35.68	54.00	-18.32	33.15	3	Vertical	310	1.04	-	2.53	29.29	3.86	-
AV	2.4022G	72.54	Inf	-Inf	33.30	3	Vertical	310	1.04	-	39.24	29.40	3.90	-
PK	2.3722G	58.18	74.00	-15.82	33.15	3	Vertical	310	1.04	-	25.03	29.29	3.86	-
PK	2.4022G	95.04	Inf	-Inf	33.30	3	Vertical	310	1.04	-	61.74	29.40	3.90	-

BT-BR(1Mbps)

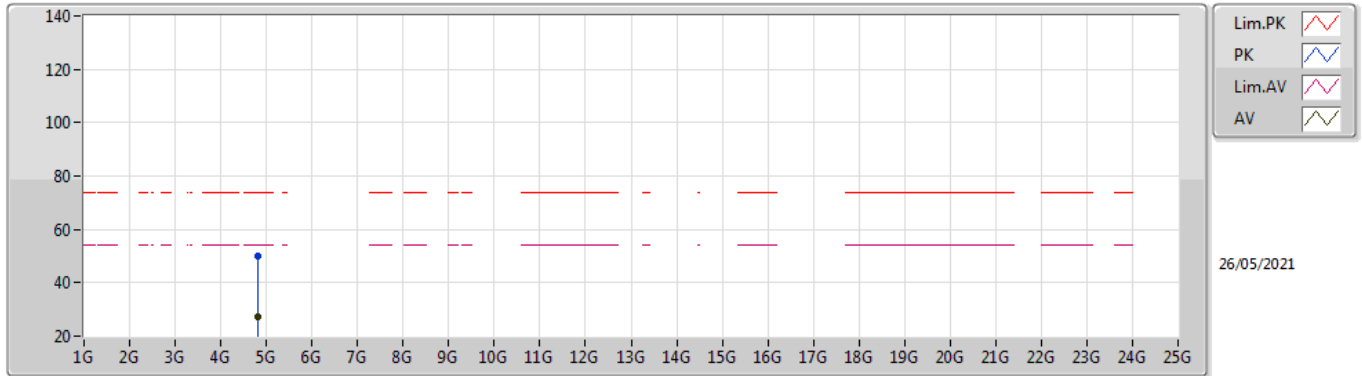
2402MHz_TX



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	2.3792G	35.80	54.00	-18.20	33.19	3	Horizontal	360	1.10	-	2.61	29.32	3.87	-
AV	2.4022G	82.69	Inf	-Inf	33.30	3	Horizontal	360	1.10	-	49.39	29.40	3.90	-
PK	2.3792G	58.30	74.00	-15.70	33.19	3	Horizontal	360	1.10	-	25.11	29.32	3.87	-
PK	2.4022G	105.19	Inf	-Inf	33.30	3	Horizontal	360	1.10	-	71.89	29.40	3.90	-

BT-BR(1Mbps)

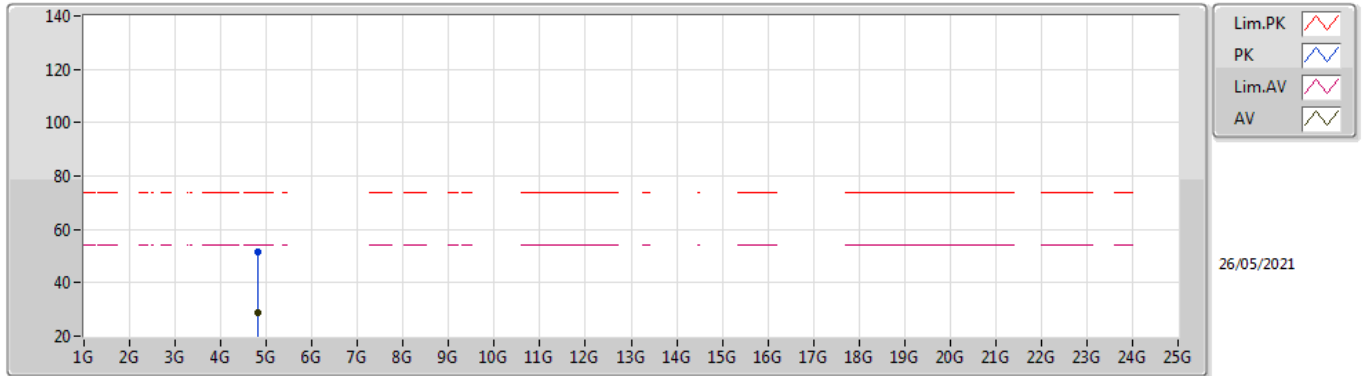
2402MHz_TX



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	4.80423G	27.43	54.00	-26.57	3.80	3	Vertical	325	2.12	-	23.63	33.43	5.30	34.93
PK	4.80423G	49.93	74.00	-24.07	3.80	3	Vertical	325	2.12	-	46.13	33.43	5.30	34.93

BT-BR(1Mbps)

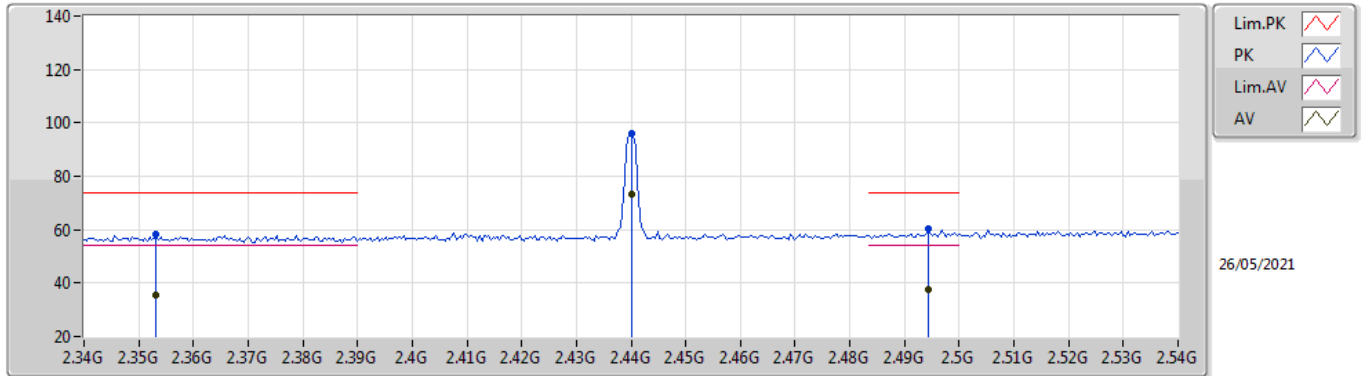
2402MHz_TX



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	4.80376G	29.00	54.00	-25.00	3.79	3	Horizontal	334	1.47	-	25.21	33.42	5.30	34.93
PK	4.80376G	51.50	74.00	-22.50	3.79	3	Horizontal	334	1.47	-	47.71	33.42	5.30	34.93

BT-BR(1Mbps)

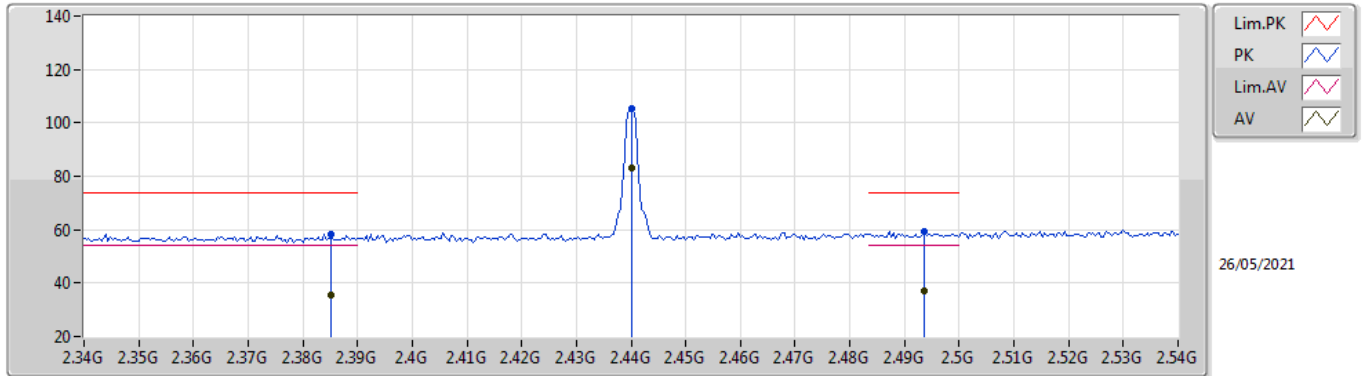
2440MHz_TX



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	2.3532G	35.66	54.00	-18.34	33.04	3	Vertical	299	1.10	-	2.62	29.21	3.83	-
AV	2.44G	73.36	Inf	-Inf	33.44	3	Vertical	299	1.10	-	39.92	29.48	3.96	-
AV	2.4944G	37.59	54.00	-16.41	34.16	3	Vertical	299	1.10	-	3.43	30.12	4.04	-
PK	2.3532G	58.16	74.00	-15.84	33.04	3	Vertical	299	1.10	-	25.12	29.21	3.83	-
PK	2.44G	95.86	Inf	-Inf	33.44	3	Vertical	299	1.10	-	62.42	29.48	3.96	-
PK	2.4944G	60.09	74.00	-13.91	34.16	3	Vertical	299	1.10	-	25.93	30.12	4.04	-

BT-BR(1Mbps)

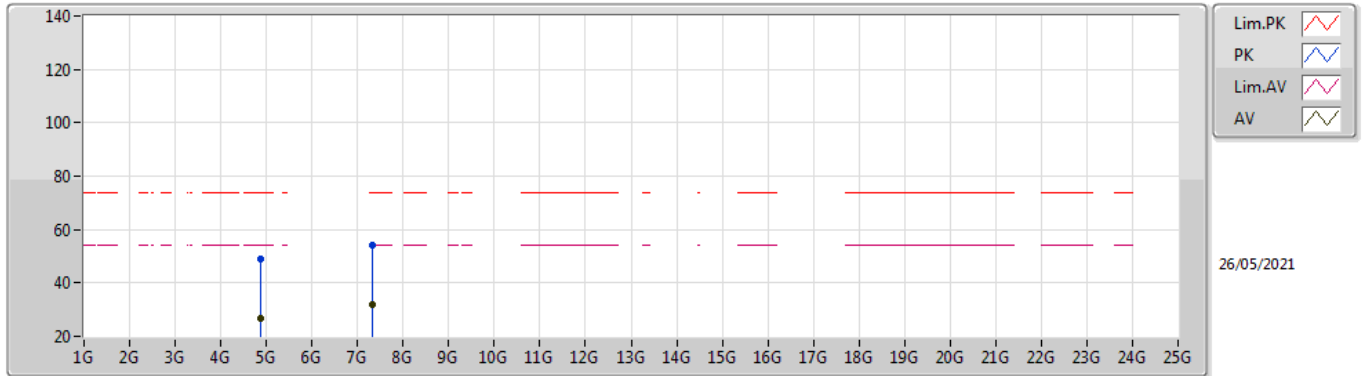
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3852G	35.64	54.00	-18.36	33.22	3	Horizontal	360	1.03	-	2.42	29.34	3.88	-
AV	2.44G	82.97	Inf	-Inf	33.44	3	Horizontal	360	1.03	-	49.53	29.48	3.96	-
AV	2.4936G	36.82	54.00	-17.18	34.15	3	Horizontal	360	1.03	-	2.67	30.11	4.04	-
PK	2.3852G	58.14	74.00	-15.86	33.22	3	Horizontal	360	1.03	-	24.92	29.34	3.88	-
PK	2.44G	105.47	Inf	-Inf	33.44	3	Horizontal	360	1.03	-	72.03	29.48	3.96	-
PK	2.4936G	59.32	74.00	-14.68	34.15	3	Horizontal	360	1.03	-	25.17	30.11	4.04	-

BT-BR(1Mbps)

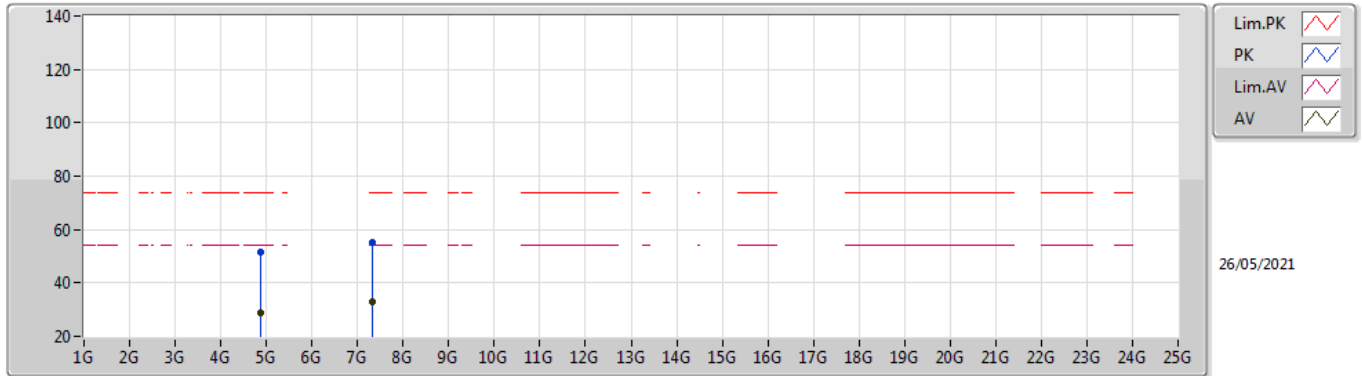
2440MHz_TX



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	4.88021G	26.64	54.00	-27.36	4.23	3	Vertical	331	2.22	-	22.41	33.82	5.34	34.93
AV	7.3197G	31.64	54.00	-22.36	11.26	3	Vertical	351	1.98	-	20.38	39.64	6.80	35.18
PK	4.88021G	49.14	74.00	-24.86	4.23	3	Vertical	331	2.22	-	44.91	33.82	5.34	34.93
PK	7.3197G	54.14	74.00	-19.86	11.26	3	Vertical	351	1.98	-	42.88	39.64	6.80	35.18

BT-BR(1Mbps)

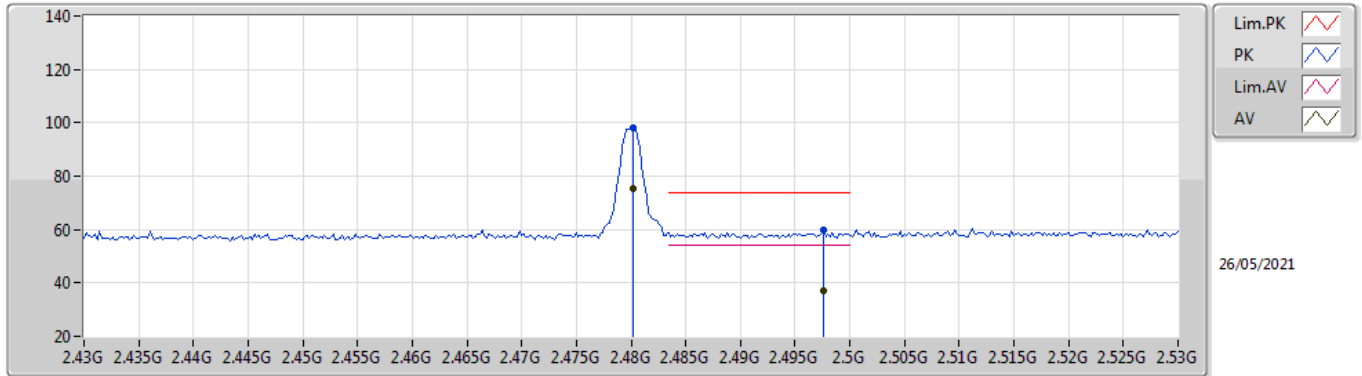
2440MHz_TX



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	4.88001G	29.01	54.00	-24.99	4.23	3	Horizontal	338	1.71	-	24.78	33.82	5.34	34.93
AV	7.32055G	32.77	54.00	-21.23	11.26	3	Horizontal	328	2.01	-	21.51	39.64	6.80	35.18
PK	4.88001G	51.51	74.00	-22.49	4.23	3	Horizontal	338	1.71	-	47.28	33.82	5.34	34.93
PK	7.32055G	55.27	74.00	-18.73	11.26	3	Horizontal	328	2.01	-	44.01	39.64	6.80	35.18

BT-BR(1Mbps)

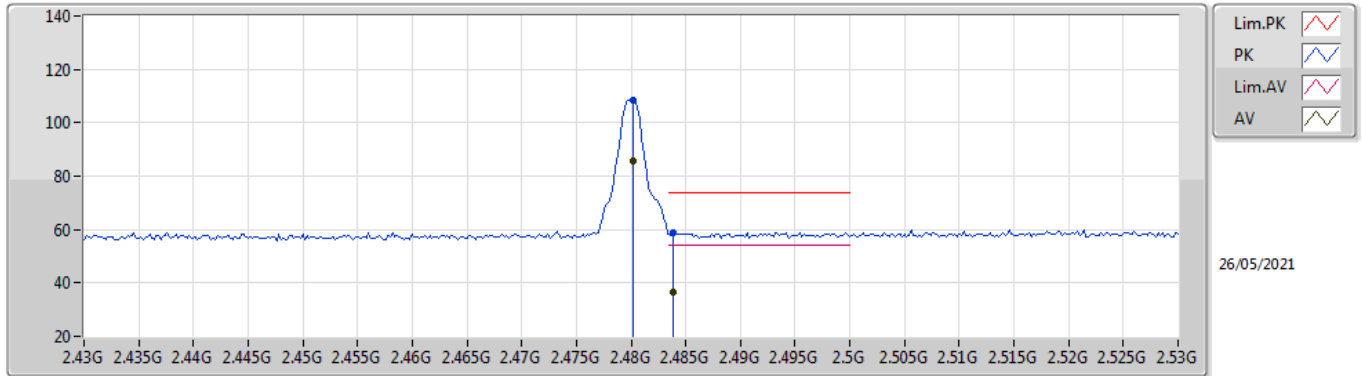
2480MHz_TX



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	75.44	Inf	-Inf	33.94	3	Vertical	301	1.17	-	41.50	29.92	4.02	-
AV	2.4976G	37.23	54.00	-16.77	34.22	3	Vertical	301	1.17	-	3.01	30.17	4.05	-
PK	2.4802G	97.94	Inf	-Inf	33.94	3	Vertical	301	1.17	-	64.00	29.92	4.02	-
PK	2.4976G	59.73	74.00	-14.27	34.22	3	Vertical	301	1.17	-	25.51	30.17	4.05	-

BT-BR(1Mbps)

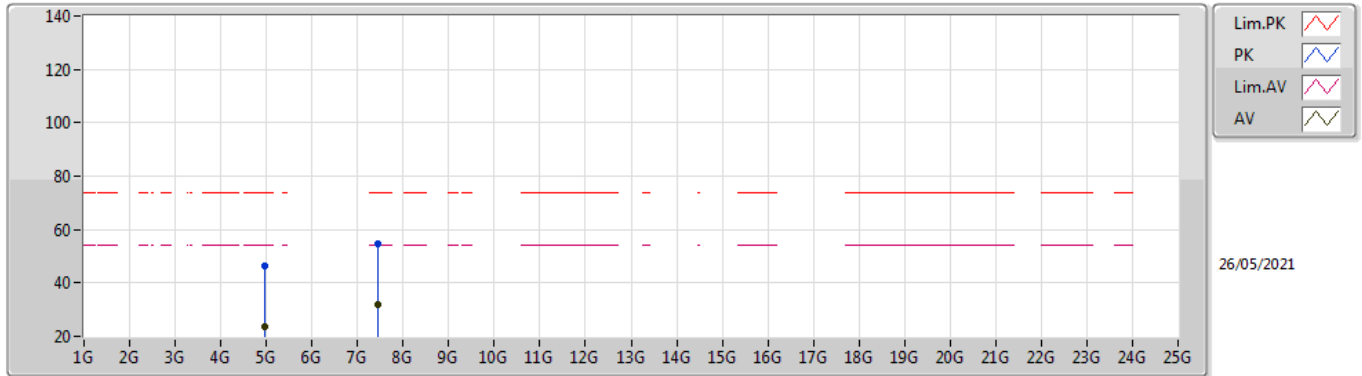
2480MHz_TX



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	2.4802G	85.88	Inf	-Inf	33.94	3	Horizontal	360	1.07	-	51.94	29.92	4.02	-
AV	2.4838G	36.46	54.00	-17.54	34.00	3	Horizontal	360	1.07	-	2.46	29.97	4.03	-
PK	2.4802G	108.38	Inf	-Inf	33.94	3	Horizontal	360	1.07	-	74.44	29.92	4.02	-
PK	2.4838G	58.96	74.00	-15.04	34.00	3	Horizontal	360	1.07	-	24.96	29.97	4.03	-

BT-BR(1Mbps)

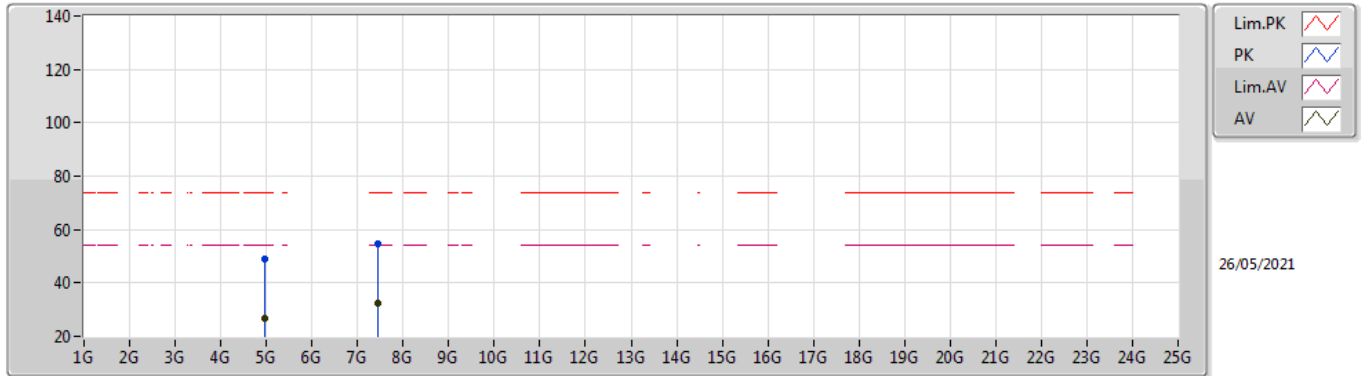
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.95046G	23.81	54.00	-30.19	4.44	3	Vertical	314	1.48	-	19.37	34.00	5.38	34.94
AV	7.43995G	32.06	54.00	-21.94	11.69	3	Vertical	350	2.01	-	20.37	40.04	6.82	35.17
PK	4.95046G	46.31	74.00	-27.69	4.44	3	Vertical	314	1.48	-	41.87	34.00	5.38	34.94
PK	7.43995G	54.56	74.00	-19.44	11.69	3	Vertical	350	2.01	-	42.87	40.04	6.82	35.17

BT-BR(1Mbps)

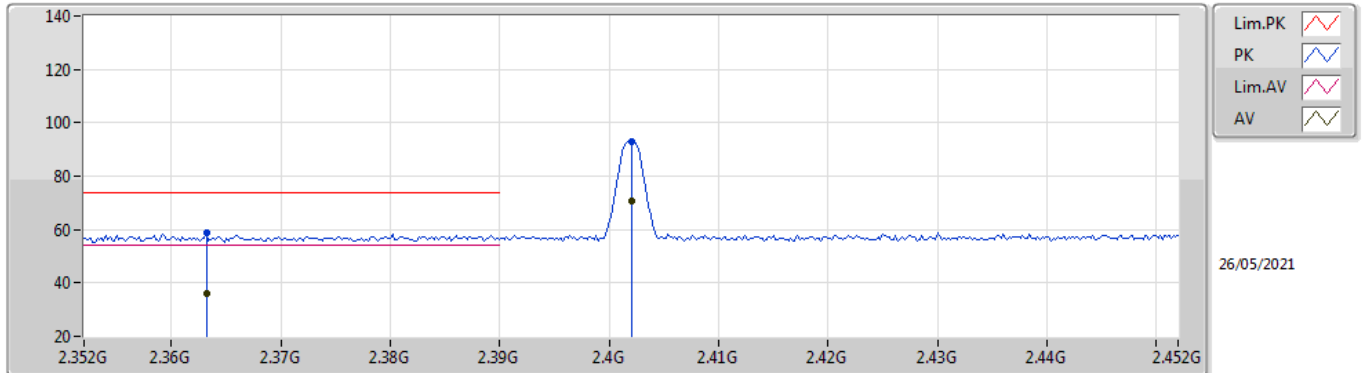
2480MHz_TX



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	4.96028G	26.63	54.00	-27.37	4.44	3	Horizontal	360	1.96	-	22.19	34.00	5.38	34.94
AV	7.43979G	32.38	54.00	-21.62	11.69	3	Horizontal	328	2.02	-	20.69	40.04	6.82	35.17
PK	4.96028G	49.13	74.00	-24.87	4.44	3	Horizontal	360	1.96	-	44.69	34.00	5.38	34.94
PK	7.43979G	54.88	74.00	-19.12	11.69	3	Horizontal	328	2.02	-	43.19	40.04	6.82	35.17

BT-EDR(3Mbps)

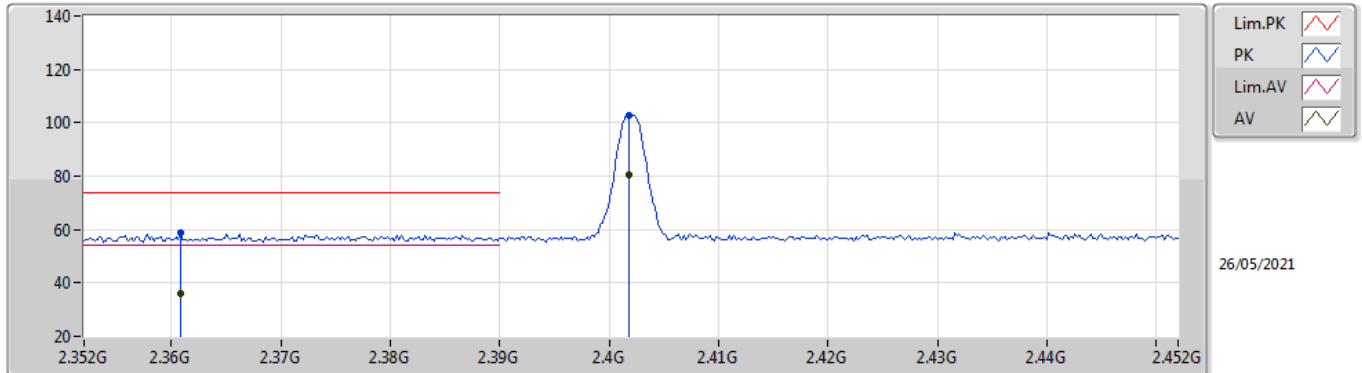
2402MHz_TX



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	2.3632G	36.08	54.00	-17.92	33.09	3	Vertical	307	1.03	-	2.99	29.25	3.84	-
AV	2.402G	70.48	Inf	-Inf	33.30	3	Vertical	307	1.03	-	37.18	29.40	3.90	-
PK	2.3632G	58.58	74.00	-15.42	33.09	3	Vertical	307	1.03	-	25.49	29.25	3.84	-
PK	2.402G	92.98	Inf	-Inf	33.30	3	Vertical	307	1.03	-	59.68	29.40	3.90	-

BT-EDR(3Mbps)

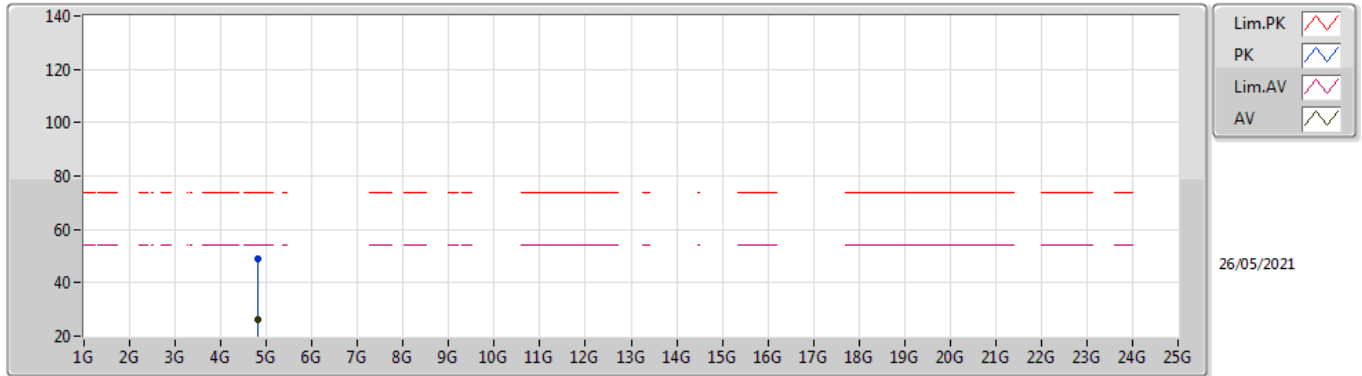
2402MHz_TX



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	2.3608G	36.12	54.00	-17.88	33.08	3	Horizontal	360	2.91	-	3.04	29.24	3.84	-
AV	2.4018G	80.48	Inf	-Inf	33.30	3	Horizontal	360	2.91	-	47.18	29.40	3.90	-
PK	2.3608G	58.62	74.00	-15.38	33.08	3	Horizontal	360	2.91	-	25.54	29.24	3.84	-
PK	2.4018G	102.98	Inf	-Inf	33.30	3	Horizontal	360	2.91	-	69.68	29.40	3.90	-

BT-EDR(3Mbps)

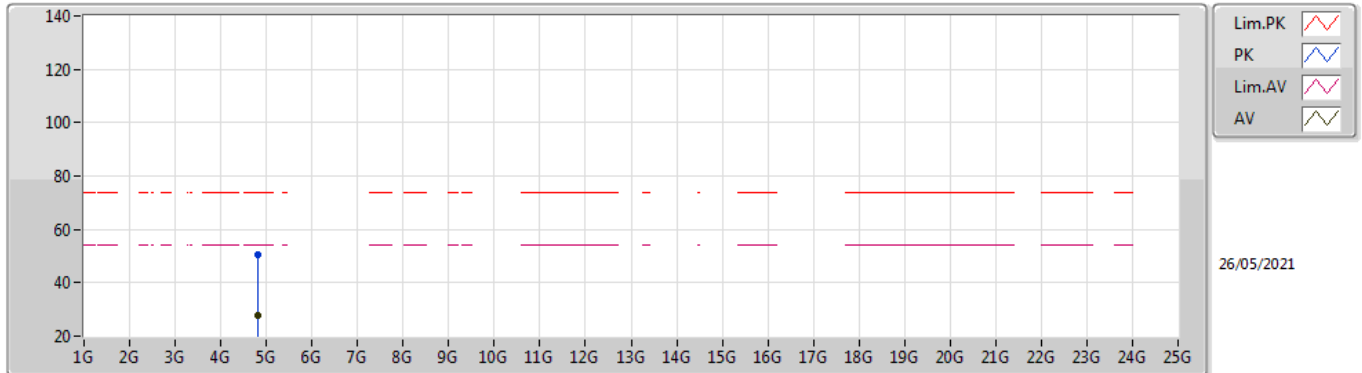
2402MHz_TX



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	4.80357G	26.40	54.00	-27.60	3.79	3	Vertical	327	2.09	-	22.61	33.42	5.30	34.93
PK	4.80357G	48.90	74.00	-25.10	3.79	3	Vertical	327	2.09	-	45.11	33.42	5.30	34.93

BT-EDR(3Mbps)

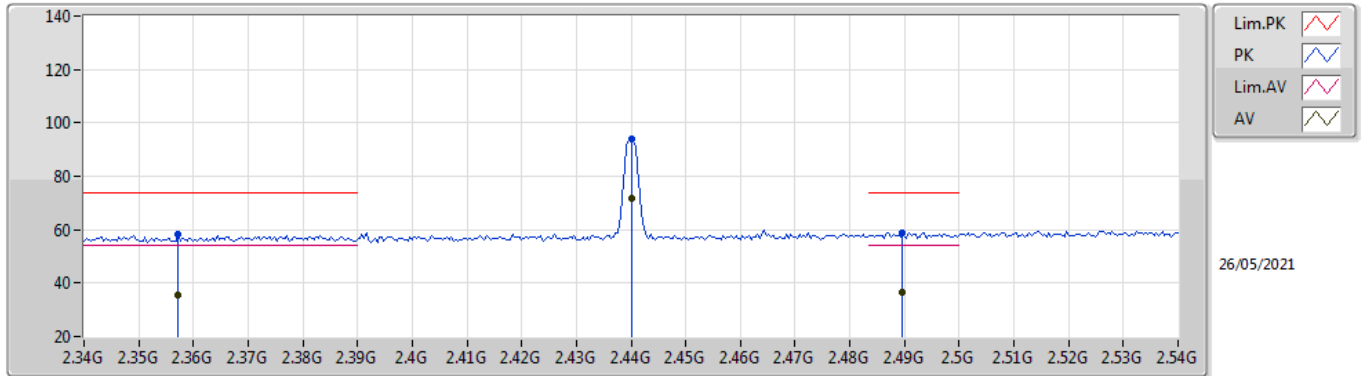
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80342G	27.94	54.00	-26.06	3.79	3	Horizontal	336	1.44	-	24.15	33.42	5.30	34.93
PK	4.80342G	50.44	74.00	-23.56	3.79	3	Horizontal	336	1.44	-	46.65	33.42	5.30	34.93

BT-EDR(3Mbps)

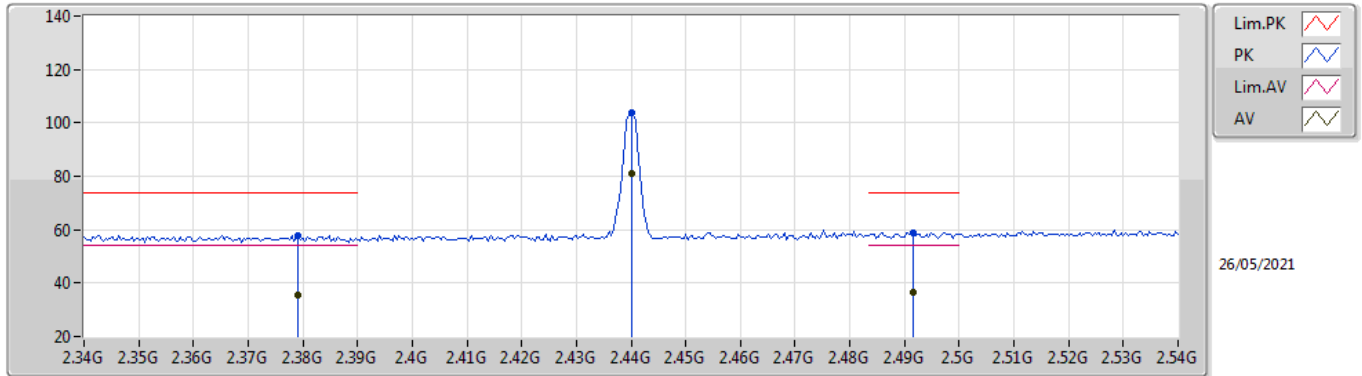
2440MHz_TX



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	2.3572G	35.60	54.00	-18.40	33.07	3	Vertical	297	1.10	-	2.53	29.23	3.84	-
AV	2.44G	71.47	Inf	-Inf	33.44	3	Vertical	297	1.10	-	38.03	29.48	3.96	-
AV	2.4896G	36.36	54.00	-17.64	34.08	3	Vertical	297	1.10	-	2.28	30.05	4.03	-
PK	2.3572G	58.10	74.00	-15.90	33.07	3	Vertical	297	1.10	-	25.03	29.23	3.84	-
PK	2.44G	93.97	Inf	-Inf	33.44	3	Vertical	297	1.10	-	60.53	29.48	3.96	-
PK	2.4896G	58.86	74.00	-15.14	34.08	3	Vertical	297	1.10	-	24.78	30.05	4.03	-

BT-EDR(3Mbps)

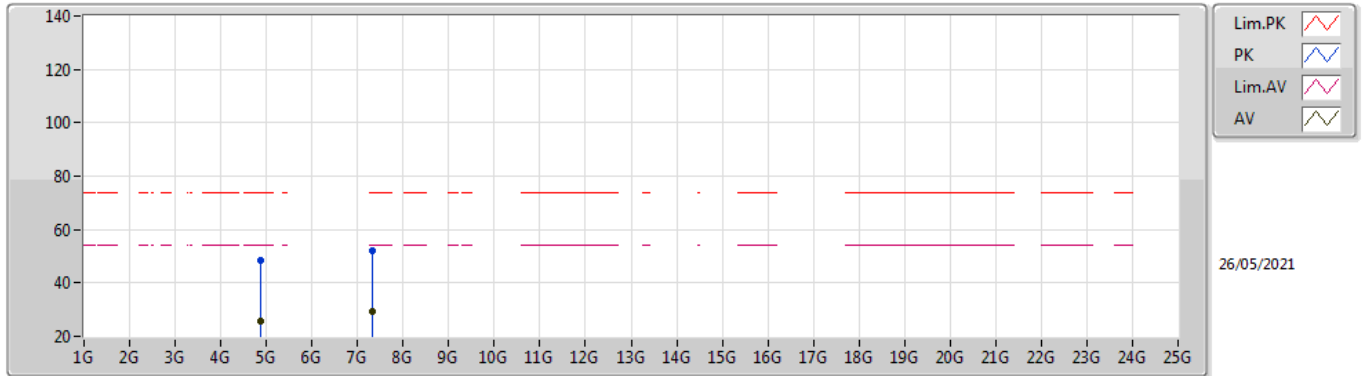
2440MHz_TX



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	2.3792G	35.26	54.00	-18.74	33.19	3	Horizontal	360	1.03	-	2.07	29.32	3.87	-
AV	2.44G	81.08	Inf	-Inf	33.44	3	Horizontal	360	1.03	-	47.64	29.48	3.96	-
AV	2.4916G	36.47	54.00	-17.53	34.12	3	Horizontal	360	1.03	-	2.35	30.08	4.04	-
PK	2.3792G	57.76	74.00	-16.24	33.19	3	Horizontal	360	1.03	-	24.57	29.32	3.87	-
PK	2.44G	103.58	Inf	-Inf	33.44	3	Horizontal	360	1.03	-	70.14	29.48	3.96	-
PK	2.4916G	58.97	74.00	-15.03	34.12	3	Horizontal	360	1.03	-	24.85	30.08	4.04	-

BT-EDR(3Mbps)

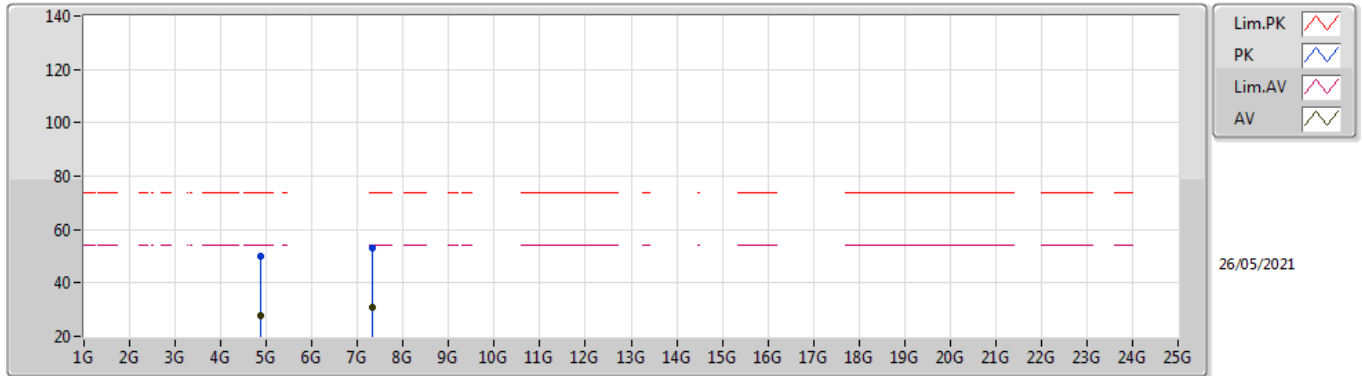
2440MHz_TX



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	4.87964G	25.80	54.00	-28.20	4.23	3	Vertical	328	2.16	-	21.57	33.82	5.34	34.93
AV	7.32276G	29.36	54.00	-24.64	11.27	3	Vertical	349	1.89	-	18.09	39.65	6.80	35.18
PK	4.87964G	48.30	74.00	-25.70	4.23	3	Vertical	328	2.16	-	44.07	33.82	5.34	34.93
PK	7.32276G	51.86	74.00	-22.14	11.27	3	Vertical	349	1.89	-	40.59	39.65	6.80	35.18

BT-EDR(3Mbps)

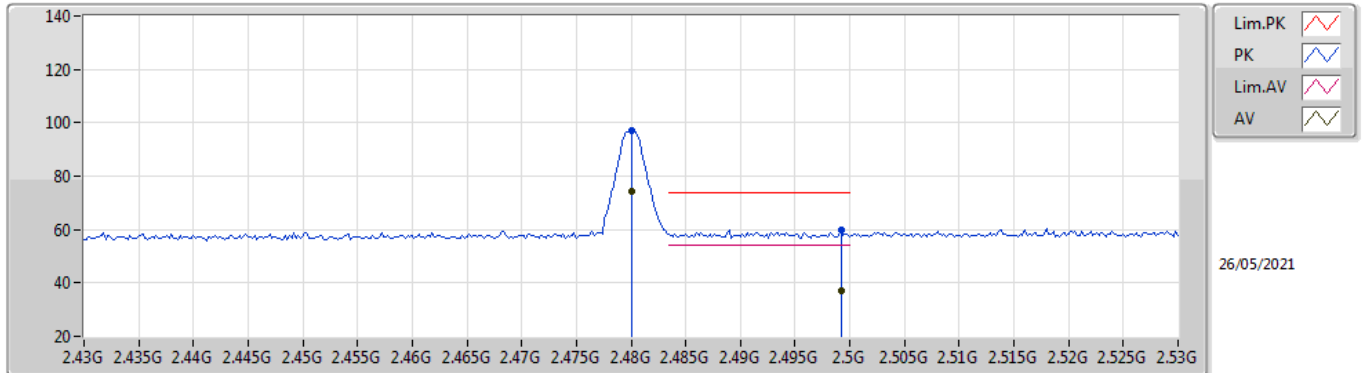
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87978G	27.56	54.00	-26.44	4.23	3	Horizontal	340	1.63	-	23.33	33.82	5.34	34.93
AV	7.31976G	30.63	54.00	-11.05	11.26	3	Horizontal	324	2.10	-	31.69	39.64	6.80	35.18
PK	4.87978G	50.06	74.00	-23.94	4.23	3	Horizontal	340	1.63	-	45.83	33.82	5.34	34.93
PK	7.31976G	53.13	74.00	-20.87	11.26	3	Horizontal	324	2.10	-	41.87	39.64	6.80	35.18

BT-EDR(3Mbps)

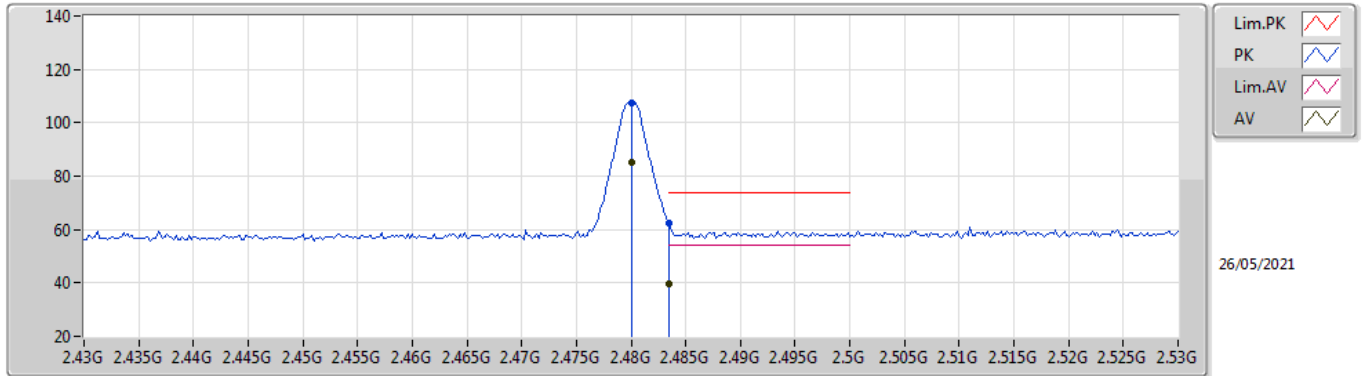
2480MHz_TX



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	74.39	Inf	-Inf	33.94	3	Vertical	300	1.16	-	40.45	29.92	4.02	-
AV	2.4992G	37.15	54.00	-16.85	34.24	3	Vertical	300	1.16	-	2.91	30.19	4.05	-
PK	2.48G	96.89	Inf	-Inf	33.94	3	Vertical	300	1.16	-	62.95	29.92	4.02	-
PK	2.4992G	59.65	74.00	-14.35	34.24	3	Vertical	300	1.16	-	25.41	30.19	4.05	-

BT-EDR(3Mbps)

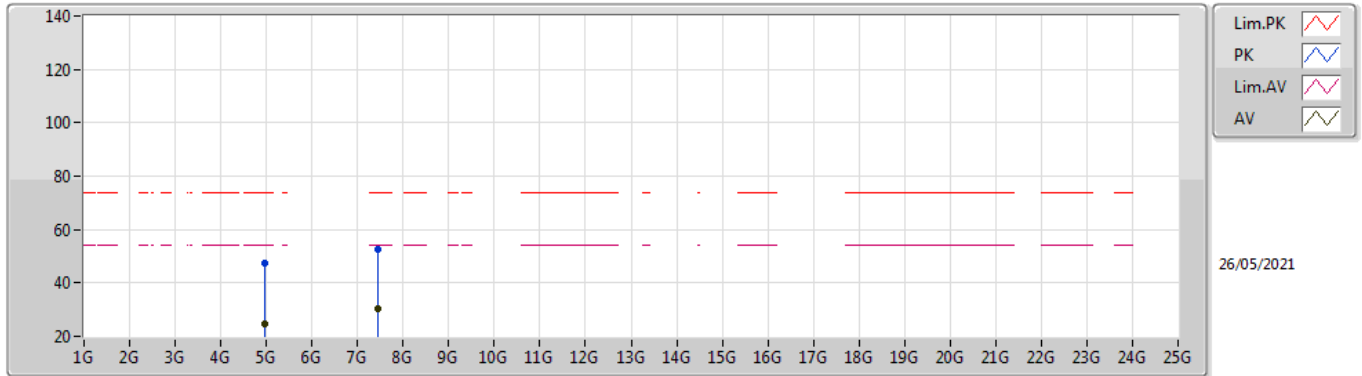
2480MHz_TX



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	84.92	Inf	-Inf	33.94	3	Horizontal	360	1.10	-	50.98	29.92	4.02	-
AV	2.4835G	39.77	54.00	-14.23	34.00	3	Horizontal	360	1.10	-	5.77	29.97	4.03	-
PK	2.48G	107.42	Inf	-Inf	33.94	3	Horizontal	360	1.10	-	73.48	29.92	4.02	-
PK	2.4835G	62.27	74.00	-11.73	34.00	3	Horizontal	360	1.10	-	28.27	29.97	4.03	-

BT-EDR(3Mbps)

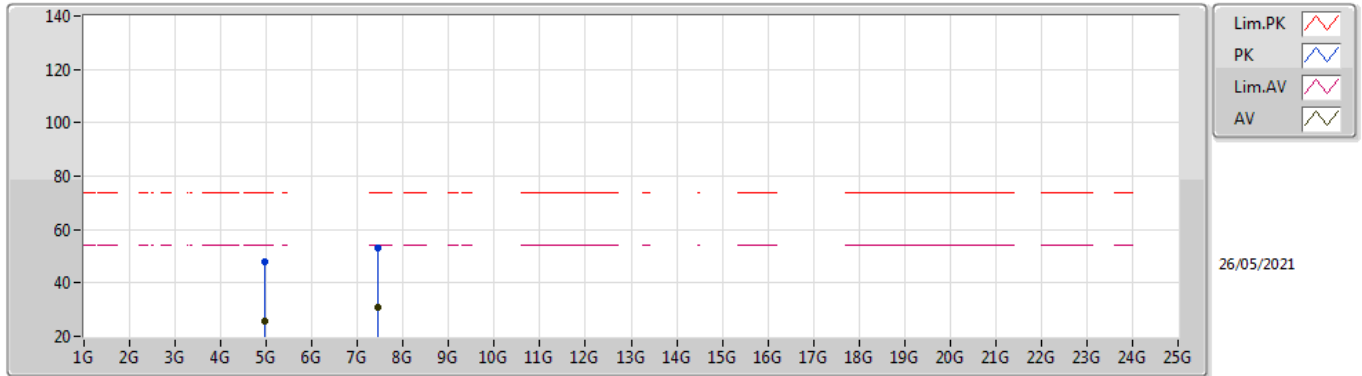
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.95948G	24.82	54.00	-29.18	4.44	3	Vertical	27	2.50	-	20.38	34.00	5.38	34.94
AV	7.44128G	30.11	54.00	-23.89	11.70	3	Vertical	32	2.46	-	18.41	40.05	6.82	35.17
PK	4.95948G	47.32	74.00	-26.68	4.44	3	Vertical	27	2.50	-	42.88	34.00	5.38	34.94
PK	7.44128G	52.61	74.00	-21.39	11.70	3	Vertical	32	2.46	-	40.91	40.05	6.82	35.17

BT-EDR(3Mbps)

2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.96059G	25.50	54.00	-28.50	4.44	3	Horizontal	5	1.50	-	21.06	34.00	5.38	34.94
AV	7.44213G	30.75	54.00	-23.25	11.70	3	Horizontal	326	1.82	-	19.05	40.05	6.82	35.17
PK	4.96059G	48.00	74.00	-26.00	4.44	3	Horizontal	5	1.50	-	43.56	34.00	5.38	34.94
PK	7.44213G	53.25	74.00	-20.75	11.70	3	Horizontal	326	1.82	-	41.55	40.05	6.82	35.17