FCC Radio Test Report

FCC ID	:	**V93MT6200AW**
Equipment	:	**Mobile Terminal System**
Brand Name	:	**POSIFLEX**
Model Name	:	**MT-62xxxx, MT-62xxxx-G2 (where x can be 0-9, A-Z, blank or symbol)**
Applicant	:	**POSIFLEX TECHNOLOGY, INC. 4F-8F, No.23, Datong St., Tucheng Dist., New Taipei City 236044, Taiwan (R.O.C.)**
Manufacturer	:	**POSIFLEX TECHNOLOGY, INC. 4F-8F, No.23, Datong St., Tucheng Dist., New Taipei City 236044, Taiwan (R.O.C.)**
Standard	:	**47 CFR FCC Part 15.247**

The product was received on Jan. 11, 2024, and testing was started from Feb. 19, 2024 and completed on Mar. 14, 2024. 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.

Jackson Tsai

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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PHOTOGRAPHS OF EUT V01

History of this test report

Report No.	Version	Description	Issued Date
FR3D2937AD	01	Initial issue of report	Jun. 27, 2024

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: Terry Chang

Report Producer: Julie Tseng

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	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 π/4-DQPSK (2Mbps) and 8DPSK (3Mbps).
- Bluetooth BR/EDR uses as a system using FHSS modulation.
- BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

For 8-inch EUT

Ant.	Brand	Model Name	Antenna Type	Connector
1	Unictron	HE018	PCB	I-PEX

Ant.	Port	Gain (dBi)		
		2.4G	5G	BT
1	1	2.7	2.4	2.7

For 2.4GHz function:

For IEEE 802.11 b/g/n mode (1TX/1RX)

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

For BT function:

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

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

For 5GHz function:

For IEEE 802.11 a/n/ac mode (1TX/1RX)

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

For 10-inch EUT

Ant.	Brand	Model Name	Antenna Type	Connector
1	Unictron	HE019	PCB	I-PEX

Ant.	Port	Gain (dBi)		
		2.4G	5G	BT
1	1	0.4	2.9	0.4

For 2.4GHz function:

For IEEE 802.11 b/g/n mode (1TX/1RX)

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

For BT function:

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

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

For 5GHz function:

For IEEE 802.11 a/n/ac mode (1TX/1RX)

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

1.1.3 EUT Information

Operational Condition				
EUT Power Type	From Power Adapter			
EUT Function	☒	Point-to-multipoint	☐	Point-to-point

Type of EUT		
☒	Stand-alone	
☐	Combined (EUT where the radio part is fully integrated within another device)	
	Combined Equipment - Brand Name / Model No.:	…
☐	Plug-in radio (EUT intended for a variety of host systems)	
	Host System - Brand Name / Model No.:	…
☐	Other:	

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
BT-BR(1Mbps)	0.774	1.11	2.885m	1k
BT-EDR(2Mbps)	0.767	1.15	2.89m	1k
BT-EDR(3Mbps)	0.777	1.1	2.893m	1k

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

1.1.5 Table for Multiple Listing

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

Size	Model Name	Description
8”	MT-62xxxx, MT-62xxxx-G2 (where x can be 0-9, A-Z, blank or symbol)	All the models are identical, the difference model for difference brand served as marketing strategy.
10”		

From the above models, model: MT-6208A, MT-6210A was selected as representative model for the test and its data was recorded in this report.

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	21.0~22.5°C / 51~54%	25/Feb/2024
RF Conducted	TH01-HY	Jin Jing	22.7~23.2°C / 44~52%	20/Feb/2024~21/Feb/2024
Radiated (Co-location)	03CH03-HY	Simon Cheng	21.7~22.6°C / 48~52%	13/Mar/2024~14/Mar/2024
☒ Wenhua 3rd. (**TAF**: 3785)	**ADD:** No. 58, Aly. 75, Ln. 564, Wenhua 3rd Rd., Guishan Dist. Taoyuan City 333, Taiwan (R.O.C.)			
	TEL: 886-3-327-0868			
Test site Designation No. TW0036 with FCC.				
Test Condition	**Test Site No.**	**Test Engineer**	**Test Environment**	**Test Date**
Radiated	03CH25-HY	Henry Ho	21.3~23.7°C / 51~54%	19/Feb/2024~24/Feb/2024

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	N/A

Note: The EUT transmits RF signal continuously by itself

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	Adapter1 mode；BT 2.1+EDR TX
2	Adapter2 mode；BT 2.1+EDR TX

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)

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	Adapter mode_8”		
2	Adapter mode_10”		
Operating Mode > 1GHz	CTX		
1	Adapter mode_8”		
2	Adapter mode_10”		
Mode 2 configuration was tested and found to be the worst case and measured during the test.			
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	WLAN 2.4GHz+Bluetooth+NFC
2	WLAN 5GHz+Bluetooth+NFC
Refer to Appendix H for Radiated Emission Co-location.	

2.3 Accessories

Accessories				
Power adapter 1	Brand Name	DELTA	Model Name	ADP-45HG B
	Manufacturer	DELTA ELECTRONICS, INC.	SN	-
	Power Rating	I/P: 100 - 240 Vac, 1.5 A O/P: 5.0 Vdc, 3.0A, 15W 9.0 Vdc, 3.0A, 27W 12.0 Vdc, 3.0A, 36W 15.0 Vdc, 3.0A, 45W 20.0 Vdc, 2.25A, 45W		
Power adapter 2	Brand Name	LITEON	Model Name	PA-1450-50
	Manufacturer	Lite-ON Technology Corp.	SN	-
	Power Rating	I/P: 100 - 240 Vac, 1.3 A O/P: 5.0 Vdc, 3.0A, 15W 9.0 Vdc, 3.0A, 27W 12.0 Vdc, 3.0A, 36W 15.0 Vdc, 3.0A, 45W 20.0 Vdc, 2.25A, 45W		
Power Cord (US Plug)	Brand Name	PHION	Model Name	PHP-301 to PHS-305
	Power Cord	1.8 meter, without shielded cable, without ferrite core		
Battery	Brand Name	POSIFLEX	Model Name	RB-1300
	Manufacturer	Jiade Energy Technology(Zhuhai) Co., Ltd.	SN	-
	Power Rating	7.70Vdc, 5930 mAh	Type	Li-ion

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

2.4 Support Equipment

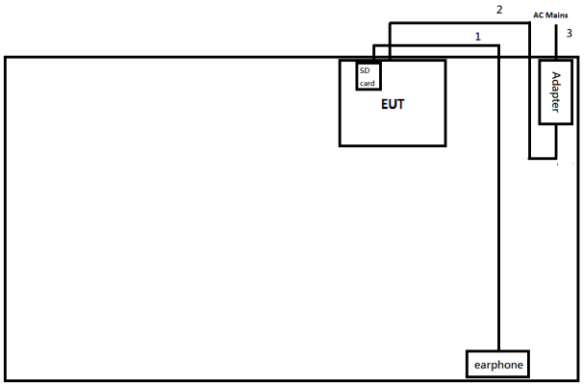
Support Equipment – AC Conduction					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
1	Earphone	APPLE	MD827FEA	-	-
2	SD card	Sporton	Sporton	-	-
3	NFC Card	Sporton	Sporton	-	-

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

Support Equipment – Radiated					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
1	Earphone	APPLE	MD827FEA	-	-
2	SD card	Sporton	Sporton	-	-

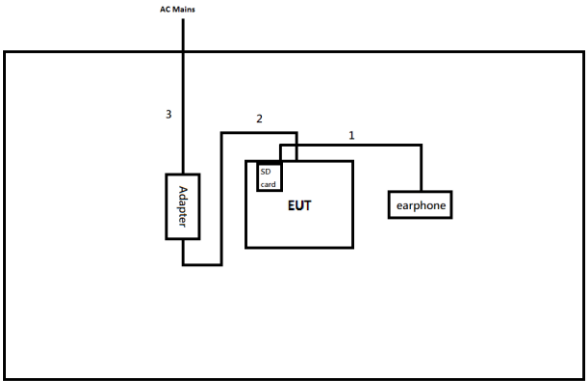
2.5 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



Item	Connection	Shielded	Length(m)	Remark
1	Audio Cable	No	1.25	-
2	DC Power cable	No	1.5	-
3	AC Power cable	No	1.8	-

Test Setup Diagram - Radiated Test



Item	Connection	Shielded	Length(m)	Remark
1	Audio Cable	No	1.25	-
2	DC Power cable	No	1.5	-
3	AC Power cable	No	1.8	-

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

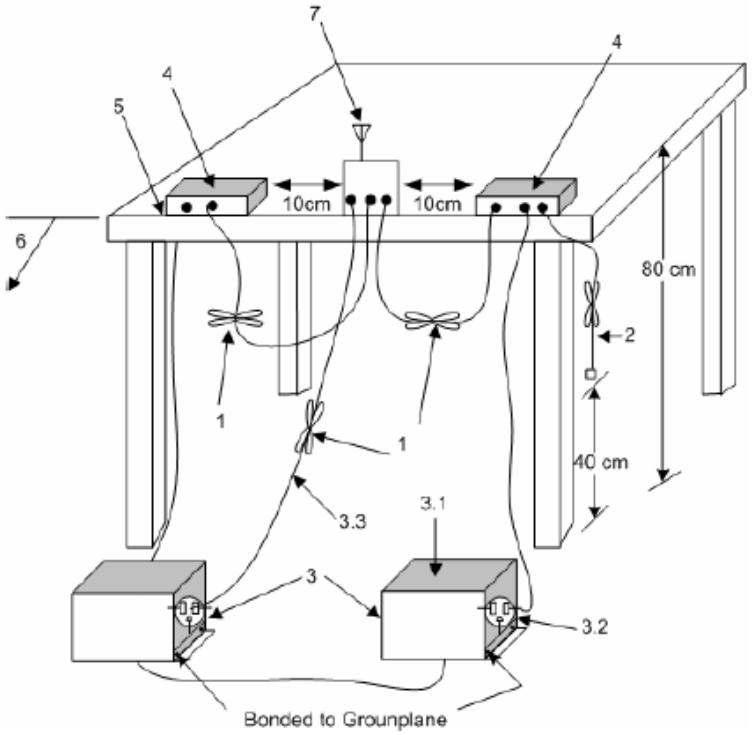
Test Method
▪ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

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

AC Power-line Conducted Emissions



1—Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long.
2—The I/O cables that are not connected to an accessory shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
3—EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50Ω loads. LISN may be placed on top of, or immediately beneath, reference ground plane.
3.1—All other equipment powered from additional LISN(s).
3.2—A multiple-outlet strip may be used for multiple power cords of non-EUT equipment.
3.3—LISN at least 80 cm from nearest part of EUT chassis.
4—Non-EUT components of EUT system being tested.
5—Rear of EUT, including peripherals, shall all be aligned and flush with edge of tabletop.
6—Edge of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground plane.
7—Antenna can be integral or detachable. If detachable, then the antenna shall be attached for this test.

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 ≥75 and ChS ≥ MAX (20 dB bandwidth, 25 kHz).
	▪ 75>N ≥ 15 and ChS ≥ MAX (20 dB bandwidth 2/3,25 kHz).
N:Number of Hopping Frequencies; **ChS**: Hopping Channel Separation	

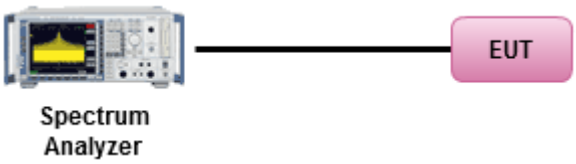
3.2.2 Measuring Instruments

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

20dB Bandwidth and Carrier Frequency Separation


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 ≥ 75; Power 30dBm; EIRP 36dBm
	▪ 75 >N ≥ 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

Maximum Conducted Output Power (Peak Power Meter)

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 ≥ 75 and ChS ≥ MAX (20 dB bandwidth, 25 kHz).
	▪ 75 >N ≥ 15 and ChS ≥ 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

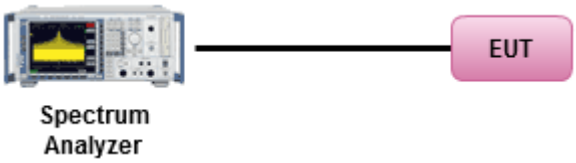
3.4.3 Measuring Instruments

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

Number of Hopping Frequencies and Hopping Frequencies Bandedge


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 ≥ 75; 0.4s in N x 0.4 period
	▪ 75 >N ≥ 15; 0.4s in N x 0.4 period
N:Number of Hopping Frequencies	

3.5.2 Measuring Instruments

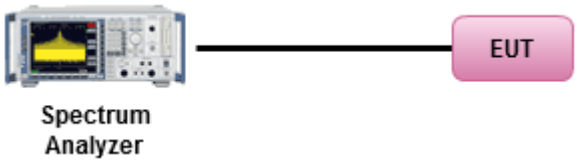
Refer a test equipment and calibration data table in this test report.

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

Time of Occupancy (Dwell Time)



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.	

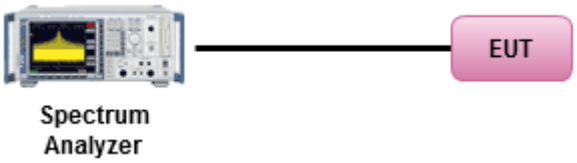
3.6.2 Measuring Instruments

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

Emissions in Non-restricted Frequency Bands


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 below30 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

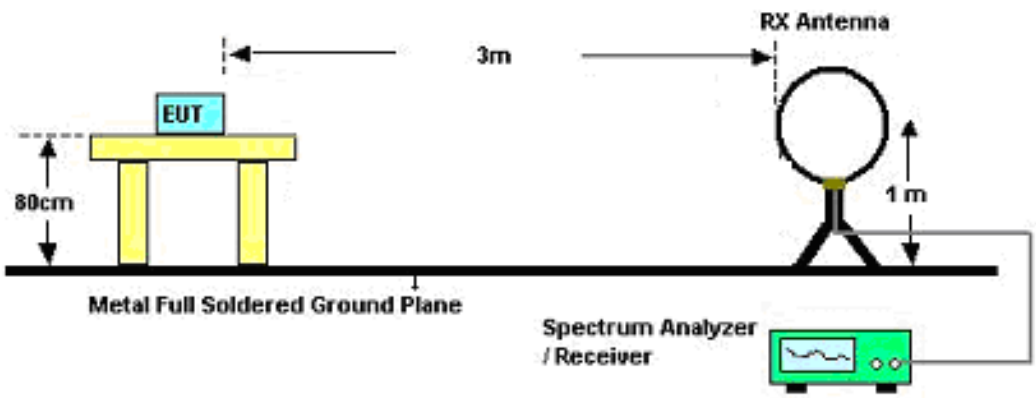
Test Method	
▪ The average emission levels shall be measured in [hopping duty factor].	
▪ Refer as ANSI C63.10; clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
▪ For the transmitter unwanted emissions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

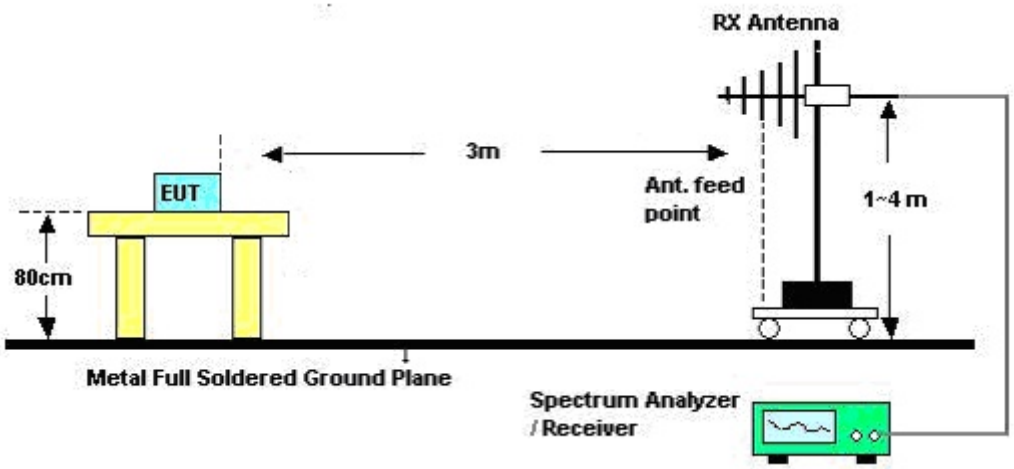
The measured Level is calculated using:
Corrected Reading: Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

3.7.5 Test Setup

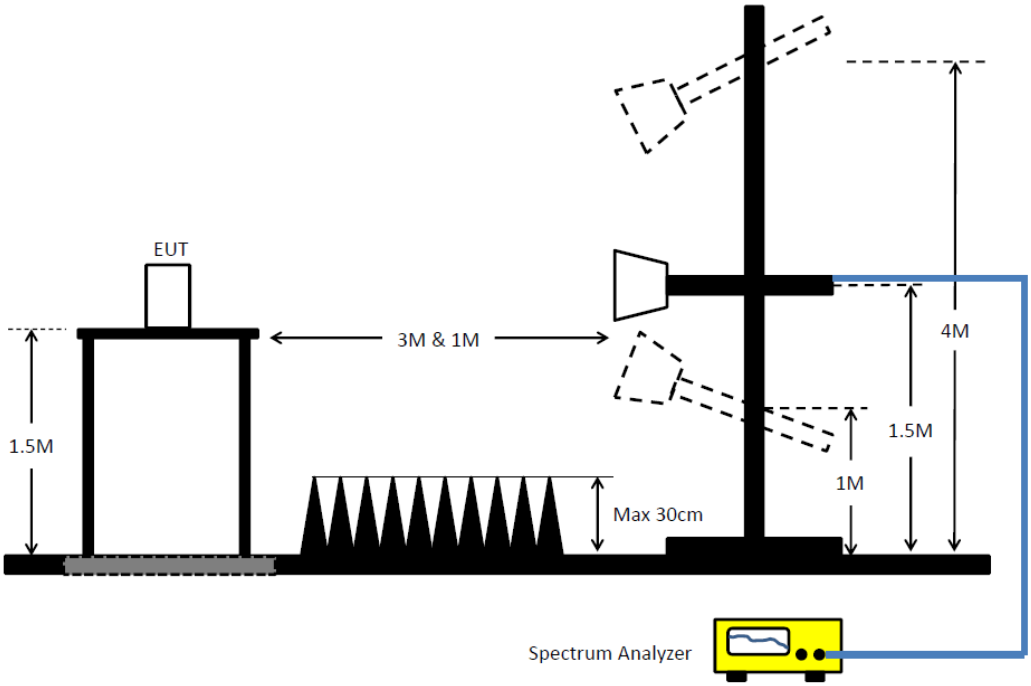
Emissions in Restricted Frequency Bands
9kHz ~30MHz



30MHz~1GHz



Above 1GHz



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	16/May/2023	15/May/2024
TWO-LINE V-NETWORK	R&S	ENV 216	101295	9kHz-30MHz	05/Feb/2024	04/Feb/2025
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	18/Oct/2023	17/Oct/2024
Software	Sporton	SENSE-EMI	V5.11.3	-	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	10/Apr/2023	09/Apr/2024
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	20/Oct/2023	19/Oct/2024
Power Meter	Anritsu	ML2495A	2105003	300MHz~40GHz	19/Sep/2023	18/Sep/2024
Pulse Sensor	Anritsu	MA2411B	1911254	300MHz~40GHz	19/Sep/2023	18/Sep/2024
SENSE-15247_FS	Sporton	V5.11.16	N/A	N/A	N/A	N/A

Instrument for Radiated Test (03CH25-HY)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH25-HY	30MHz~1GHz 3m	03/Aug/2023	02/Aug/2024
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH25-HY	1GHz~18GHz 3m	09/Aug/2023	08/Aug/2024
EMI Test Receiver	ROHDE & SCHWARZ	ESR	102318	9kHz~3.6GHz	27/Dec/2023	26/Dec/2024
Signal Analyzer	ROHDE&SCHWARZ	FSV3044	101410	10Hz~44GHz	17/Nov/2023	16/Nov/2024
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	23/Mar/2023	22/Mar/2024
Bilog Antenna & 6dB Attenuator	TESEQ & VGT	CBL 6111D & VFA 04002-06	63537/001	30MHz~1GHz	31/May/2023	30/May/2024
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02876	1GHz~18GHz	12/Jul/2023	11/Jul/2024
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	01248	18GHz~40GHz	21/Aug/2023	20/Aug/2024
RF Cable	HUBER+SUHNER	SUOFLEX 104	CB007	9kHz~1GHz	24/Apr/2023	23/Apr/2024
RF Cable	HUBER+SUHNER	SUOFLEX 104	CB007	1GHz~40GHz	24/Apr/2023	23/Apr/2024
Preamplifier	SGH	PRAMP 903	20230515-1	30MHz~1GHz	25/May/2023	24/May/2024
Preamplifier	SGH	PRAMP 118-H	20230515-3	1GHz ~18GHz	25/May/2023	24/May/2024
Microwave Premplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~ 40GHz	16/Mar/2023	15/Mar/2024
SENSE-15247-FS	Sporton	V5.11	NA	NA	NA	NA

Instrument for Radiated Test (03CH03-HY)

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	28/Jul/2023	27/Jul/2024
Signal Analyzer	R&S	FSV40	101500	10Hz~40GHz	26/Oct/2023	25/Oct/2024
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	2267	1GHz~18GHz	04/Oct/2023	03/Oct/2024
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	1248	18GHz ~ 40GHz	21/Aug/2023	20/Aug/2024
RF CABLE 5+8 m	HUBER+SUHNER	SUOFLEX 104	03CH03-cable -03	1GHz~40GHz	20/Feb/2024	19/Feb/2025
Microwave Preamplifier	Agilent	8449B	3008A02326	1GHz~26.5GHz	26/Jul/2023	25/Jul/2024
Microwave Preamplifier	EMC INSTRUMENTS	EM18G40G	60604	18GHz ~ 40GHz	16/Mar/2023	15/Mar/2024
SENSE-EMI	Sporton	V5.11.6	N/A	N/A	N/A	N/A

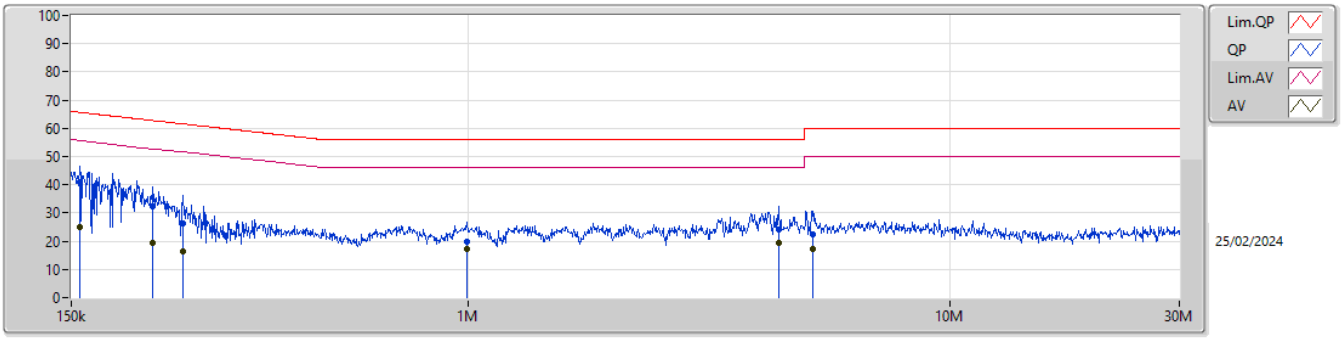
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	156.109k	41.04	65.67	-24.63	Line
Mode 2	Pass	AV	462.379k	21.83	46.65	-24.82	Neutral

Result

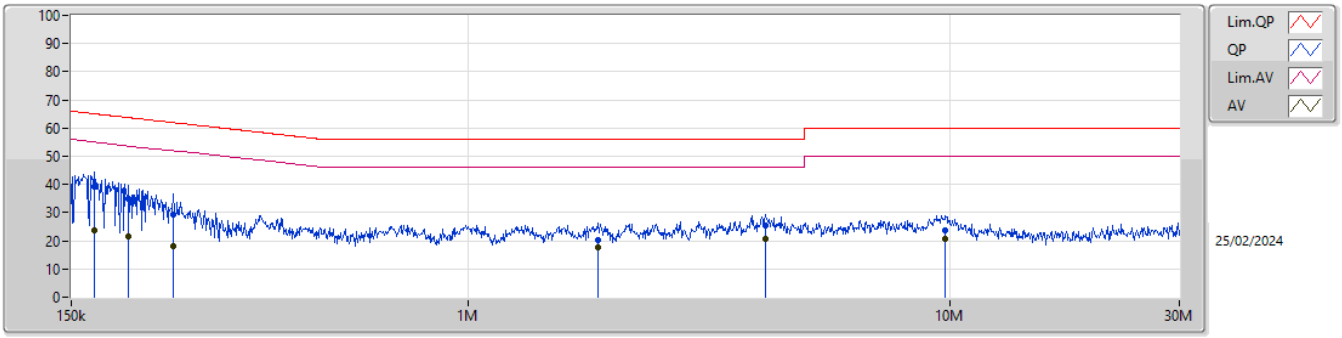
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	156.109k	41.04	65.67	-24.63	Line
Mode 1	Pass	AV	156.109k	24.88	55.67	-30.79	Line
Mode 1	Pass	QP	221.817k	32.30	62.75	-30.45	Line
Mode 1	Pass	AV	221.817k	19.30	52.75	-33.45	Line
Mode 1	Pass	QP	256.1k	26.44	61.56	-35.12	Line
Mode 1	Pass	AV	256.1k	16.48	51.56	-35.08	Line
Mode 1	Pass	QP	995.11k	19.98	56.00	-36.02	Line
Mode 1	Pass	AV	995.11k	17.44	46.00	-28.56	Line
Mode 1	Pass	QP	4.411M	23.95	56.00	-32.05	Line
Mode 1	Pass	AV	4.411M	19.58	46.00	-26.42	Line
Mode 1	Pass	QP	5.196M	22.26	60.00	-37.74	Line
Mode 1	Pass	AV	5.196M	17.40	50.00	-32.60	Line
Mode 1	Pass	QP	167.739k	39.25	65.06	-25.81	Neutral
Mode 1	Pass	AV	167.739k	23.89	55.06	-31.17	Neutral
Mode 1	Pass	QP	197.568k	34.75	63.71	-28.96	Neutral
Mode 1	Pass	AV	197.568k	21.34	53.71	-32.37	Neutral
Mode 1	Pass	QP	244.12k	29.11	61.95	-32.84	Neutral
Mode 1	Pass	AV	244.12k	18.06	51.95	-33.89	Neutral
Mode 1	Pass	QP	1.862M	20.22	56.00	-35.78	Neutral
Mode 1	Pass	AV	1.862M	17.71	46.00	-28.29	Neutral
Mode 1	Pass	QP	4.138M	25.58	56.00	-30.42	Neutral
Mode 1	Pass	AV	4.138M	20.80	46.00	-25.20	Neutral
Mode 1	Pass	QP	9.801M	23.75	60.00	-36.25	Neutral
Mode 1	Pass	AV	9.801M	20.78	50.00	-29.22	Neutral
Mode 2	Pass	QP	151.807k	38.50	65.90	-27.40	Line
Mode 2	Pass	AV	151.807k	23.24	55.90	-32.66	Line
Mode 2	Pass	QP	169.76k	37.25	64.97	-27.72	Line
Mode 2	Pass	AV	169.76k	20.77	54.97	-34.20	Line
Mode 2	Pass	QP	244.12k	26.63	61.95	-35.32	Line
Mode 2	Pass	AV	244.12k	16.86	51.95	-35.09	Line
Mode 2	Pass	QP	455.055k	24.47	56.78	-32.31	Line
Mode 2	Pass	AV	455.055k	20.05	46.78	-26.73	Line
Mode 2	Pass	QP	4.04M	19.50	56.00	-36.50	Line
Mode 2	Pass	AV	4.04M	16.80	46.00	-29.20	Line
Mode 2	Pass	QP	10.787M	23.67	60.00	-36.33	Line
Mode 2	Pass	AV	10.787M	20.57	50.00	-29.43	Line
Mode 2	Pass	QP	159.256k	38.74	65.50	-26.76	Neutral
Mode 2	Pass	AV	159.256k	23.23	55.50	-32.27	Neutral
Mode 2	Pass	QP	213.989k	30.12	63.06	-32.94	Neutral
Mode 2	Pass	AV	213.989k	18.61	53.06	-34.45	Neutral
Mode 2	Pass	QP	265.468k	23.30	61.26	-37.96	Neutral
Mode 2	Pass	AV	265.468k	15.66	51.26	-35.60	Neutral
Mode 2	Pass	QP	462.379k	26.05	56.65	-30.60	Neutral
Mode 2	Pass	AV	462.379k	21.83	46.65	-24.82	Neutral
Mode 2	Pass	QP	3.836M	18.53	56.00	-37.47	Neutral
Mode 2	Pass	AV	3.836M	15.98	46.00	-30.02	Neutral
Mode 2	Pass	QP	9.456M	22.60	60.00	-37.40	Neutral
Mode 2	Pass	AV	9.456M	19.46	50.00	-30.54	Neutral

Conducted Emissions at Powerline_Mode 1



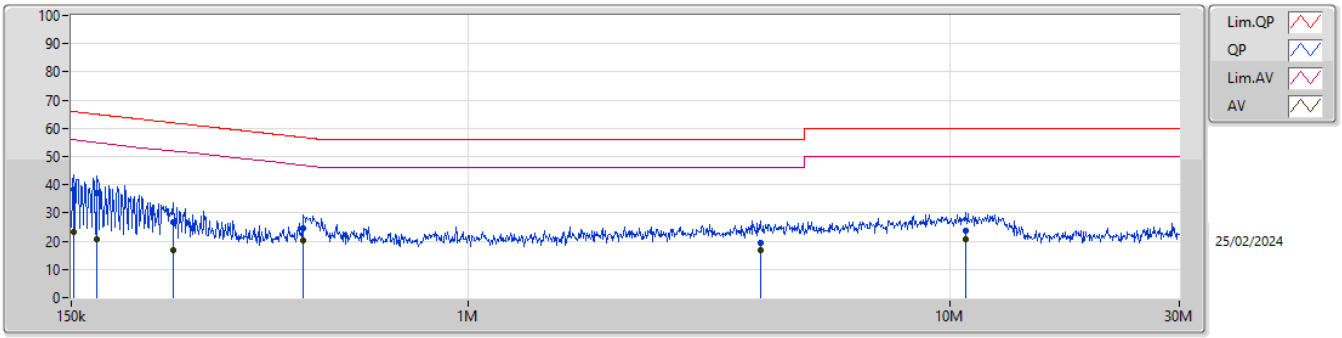
Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	156.109k	41.04	65.67	-24.63	19.39	Line	-	21.65	9.61	0.03	9.75
AV	156.109k	24.88	55.67	-30.79	19.39	Line	-	5.49	9.61	0.03	9.75
QP	221.817k	32.30	62.75	-30.45	19.33	Line	-	12.97	9.61	0.03	9.69
AV	221.817k	19.30	52.75	-33.45	19.33	Line	-	-0.03	9.61	0.03	9.69
QP	256.1k	26.44	61.56	-35.12	19.35	Line	-	7.09	9.61	0.03	9.71
AV	256.1k	16.48	51.56	-35.08	19.35	Line	-	-2.87	9.61	0.03	9.71
QP	995.11k	19.98	56.00	-36.02	19.46	Line	-	0.52	9.61	0.05	9.80
AV	995.11k	17.44	46.00	-28.56	19.46	Line	-	-2.02	9.61	0.05	9.80
QP	4.411M	23.95	56.00	-32.05	19.57	Line	-	4.38	9.64	0.14	9.79
AV	4.411M	19.58	46.00	-26.42	19.57	Line	-	0.01	9.64	0.14	9.79
QP	5.196M	22.26	60.00	-37.74	19.58	Line	-	2.68	9.65	0.14	9.79
AV	5.196M	17.40	50.00	-32.60	19.58	Line	-	-2.18	9.65	0.14	9.79

Conducted Emissions at Powerline_Mode 1



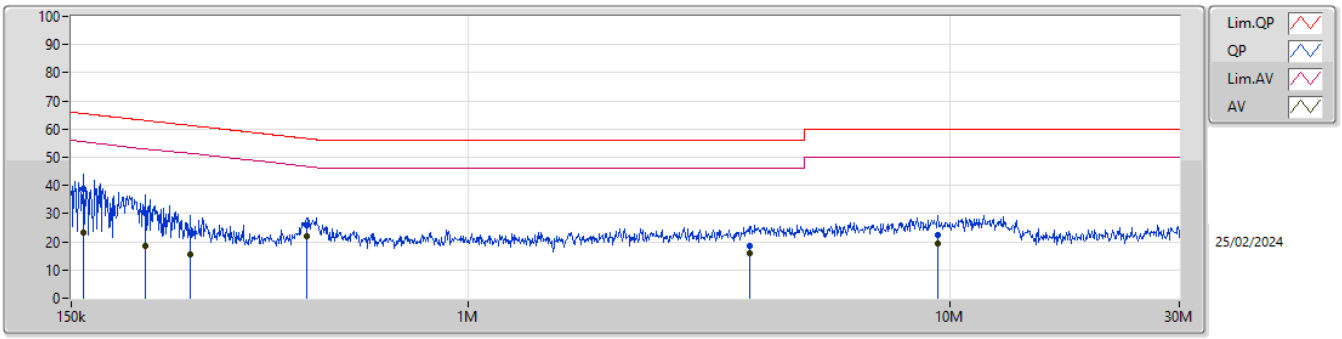
Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	167.739k	39.25	65.06	-25.81	19.38	Neutral	-	19.87	9.62	0.03	9.73
AV	167.739k	23.89	55.06	-31.17	19.38	Neutral	-	4.51	9.62	0.03	9.73
QP	197.568k	34.75	63.71	-28.96	19.32	Neutral	-	15.43	9.61	0.03	9.68
AV	197.568k	21.34	53.71	-32.37	19.32	Neutral	-	2.02	9.61	0.03	9.68
QP	244.12k	29.11	61.95	-32.84	19.34	Neutral	-	9.77	9.61	0.03	9.70
AV	244.12k	18.06	51.95	-33.89	19.34	Neutral	-	-1.28	9.61	0.03	9.70
QP	1.862M	20.22	56.00	-35.78	19.50	Neutral	-	0.72	9.62	0.08	9.80
AV	1.862M	17.71	46.00	-28.29	19.50	Neutral	-	-1.79	9.62	0.08	9.80
QP	4.138M	25.58	56.00	-30.42	19.56	Neutral	-	6.02	9.64	0.13	9.79
AV	4.138M	20.80	46.00	-25.20	19.56	Neutral	-	1.24	9.64	0.13	9.79
QP	9.801M	23.75	60.00	-36.25	19.66	Neutral	-	4.09	9.69	0.18	9.79
AV	9.801M	20.78	50.00	-29.22	19.66	Neutral	-	1.12	9.69	0.18	9.79

Conducted Emissions at Powerline_Mode 2



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	151.807k	38.50	65.90	-27.40	19.40	Line	-	19.10	9.61	0.03	9.76
AV	151.807k	23.24	55.90	-32.66	19.40	Line	-	3.84	9.61	0.03	9.76
QP	169.76k	37.25	64.97	-27.72	19.36	Line	-	17.89	9.61	0.03	9.72
AV	169.76k	20.77	54.97	-34.20	19.36	Line	-	1.41	9.61	0.03	9.72
QP	244.12k	26.63	61.95	-35.32	19.34	Line	-	7.29	9.61	0.03	9.70
AV	244.12k	16.86	51.95	-35.09	19.34	Line	-	-2.48	9.61	0.03	9.70
QP	455.055k	24.47	56.78	-32.31	19.42	Line	-	5.05	9.61	0.04	9.77
AV	455.055k	20.05	46.78	-26.73	19.42	Line	-	0.63	9.61	0.04	9.77
QP	4.04M	19.50	56.00	-36.50	19.56	Line	-	-0.06	9.64	0.13	9.79
AV	4.04M	16.80	46.00	-29.20	19.56	Line	-	-2.76	9.64	0.13	9.79
QP	10.787M	23.67	60.00	-36.33	19.64	Line	-	4.03	9.65	0.19	9.80
AV	10.787M	20.57	50.00	-29.43	19.64	Line	-	0.93	9.65	0.19	9.80

Conducted Emissions at Powerline_Mode 2



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	159.256k	38.74	65.50	-26.76	19.39	Neutral	-	19.35	9.62	0.03	9.74
AV	159.256k	23.23	55.50	-32.27	19.39	Neutral	-	3.84	9.62	0.03	9.74
QP	213.989k	30.12	63.06	-32.94	19.33	Neutral	-	10.79	9.61	0.03	9.69
AV	213.989k	18.61	53.06	-34.45	19.33	Neutral	-	-0.72	9.61	0.03	9.69
QP	265.468k	23.30	61.26	-37.96	19.35	Neutral	-	3.95	9.61	0.03	9.71
AV	265.468k	15.66	51.26	-35.60	19.35	Neutral	-	-3.69	9.61	0.03	9.71
QP	462.379k	26.05	56.65	-30.60	19.42	Neutral	-	6.63	9.61	0.04	9.77
AV	462.379k	21.83	46.65	-24.82	19.42	Neutral	-	2.41	9.61	0.04	9.77
QP	3.836M	18.53	56.00	-37.47	19.56	Neutral	-	-1.03	9.64	0.13	9.79
AV	3.836M	15.98	46.00	-30.02	19.56	Neutral	-	-3.58	9.64	0.13	9.79
QP	9.456M	22.60	60.00	-37.40	19.66	Neutral	-	2.94	9.69	0.18	9.79
AV	9.456M	19.46	50.00	-30.54	19.66	Neutral	-	-0.20	9.69	0.18	9.79

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)	877.25k	775.862k	776KF1D	830.5k	757.121k
BT-EDR(2Mbps)	1.317M	1.212M	1M21G1D	1.218M	1.161M
BT-EDR(3Mbps)	1.306M	1.219M	1M22G1D	1.282M	1.173M

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

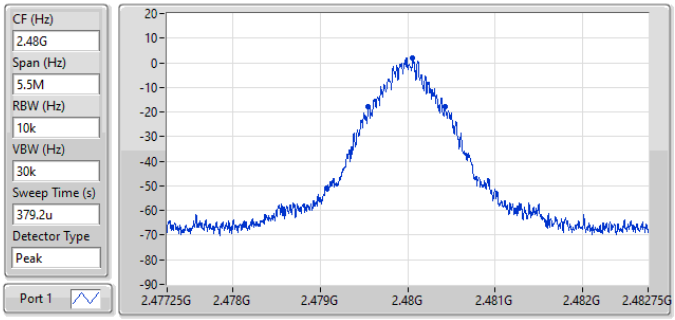
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	Inf	830.5k	768.366k
2440MHz	Pass	Inf	871.75k	757.121k
2480MHz	Pass	Inf	877.25k	775.862k
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.317M	1.161M
2440MHz	Pass	Inf	1.265M	1.178M
2480MHz	Pass	Inf	1.218M	1.212M
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.306M	1.173M
2440MHz	Pass	Inf	1.282M	1.186M
2480MHz	Pass	Inf	1.298M	1.219M

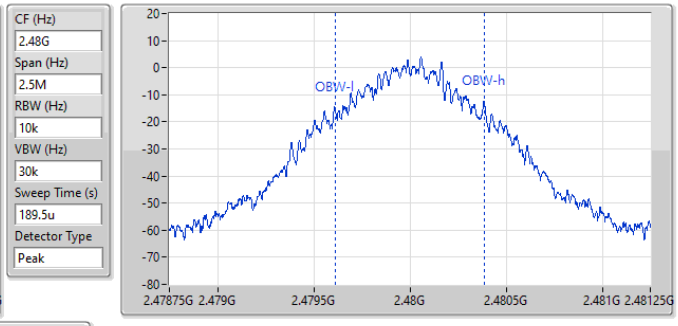
Port X-N dB = Port X 20dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_BT-BR(1Mbps) **EBW-FS**

2480MHz

20/02/2024



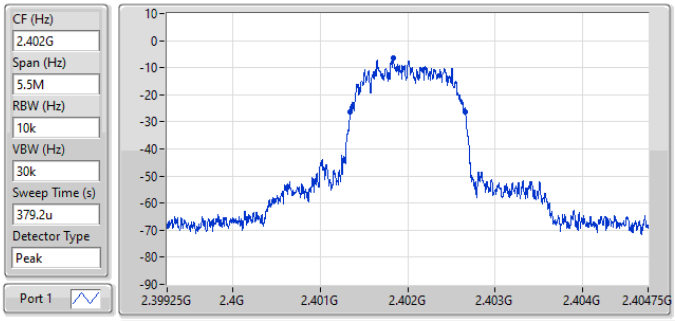


20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
877.25k	2.479552G	2.480429G	775.862k	2.47961G	2.480386G	Inf	1

2.4-2.4835GHz_BT-EDR(2Mbps) **EBW-FS**

2402MHz

20/02/2024

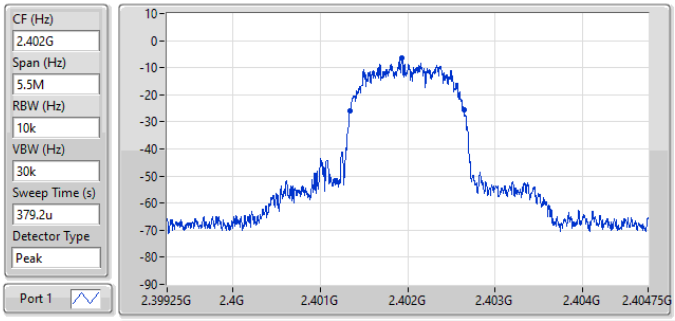


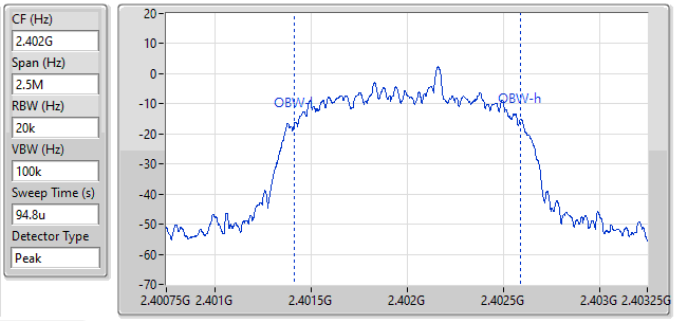
20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.317M	2.401343G	2.40266G	1.161M	2.401412G	2.402572G	Inf	1

2.4-2.4835GHz_BT-EDR(3Mbps) **EBW-FS**

2402MHz

20/02/2024





20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.306M	2.40134G	2.402646G	1.173M	2.401415G	2.402588G	Inf	1

Summary

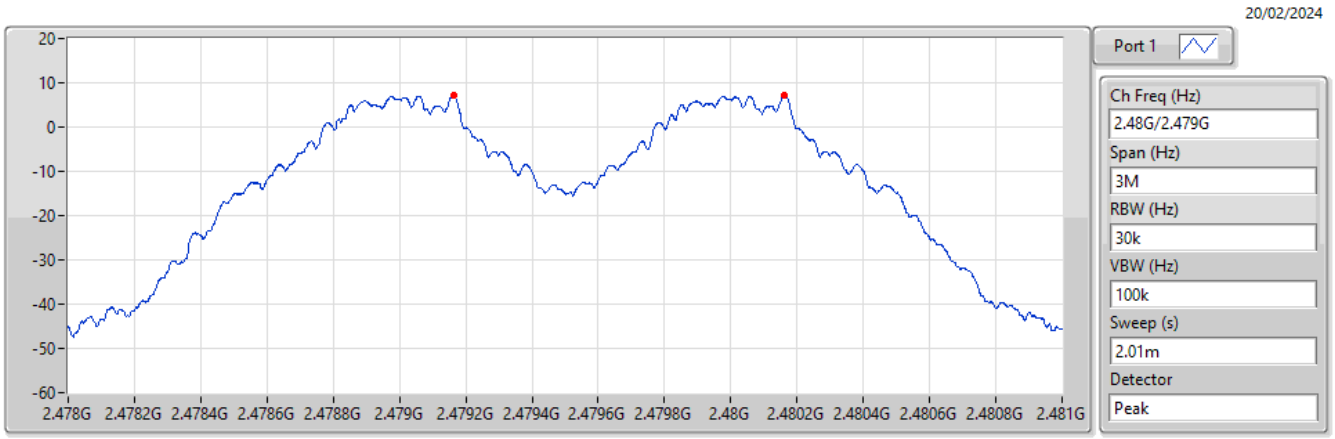
Mode	Max-Space (Hz)	Min-Space (Hz)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	1.0035M	999k
BT-EDR(2Mbps)	1.0005M	999k
BT-EDR(3Mbps)	1.0005M	993k

Result

Mode	Result	Fl (Hz)	Fh (Hz)	Ch.Space (Hz)	Limit (Hz)
BT-BR(1Mbps)	-	-	-	-	-
2402MHz	Pass	2.402163G	2.403166G	1.0035M	553.113k
2440MHz	Pass	2.440161G	2.441163G	1.002M	580.5855k
2480MHz	Pass	2.479163G	2.480162G	999k	584.2485k
BT-EDR(2Mbps)	-	-	-	-	-
2402MHz	Pass	2.402164G	2.403163G	999k	871.794k
2440MHz	Pass	2.440164G	2.441163G	999k	842.49k
2480MHz	Pass	2.479164G	2.480165G	1.0005M	811.188k
BT-EDR(3Mbps)	-	-	-	-	-
2402MHz	Pass	2.402163G	2.403163G	1.0005M	869.796k
2440MHz	Pass	2.440166G	2.441159G	993k	853.812k
2480MHz	Pass	2.479164G	2.480162G	997.5k	864.468k

2.4-2.4835GHz_BT-BR(1Mbps) **Channel Separation-FS**

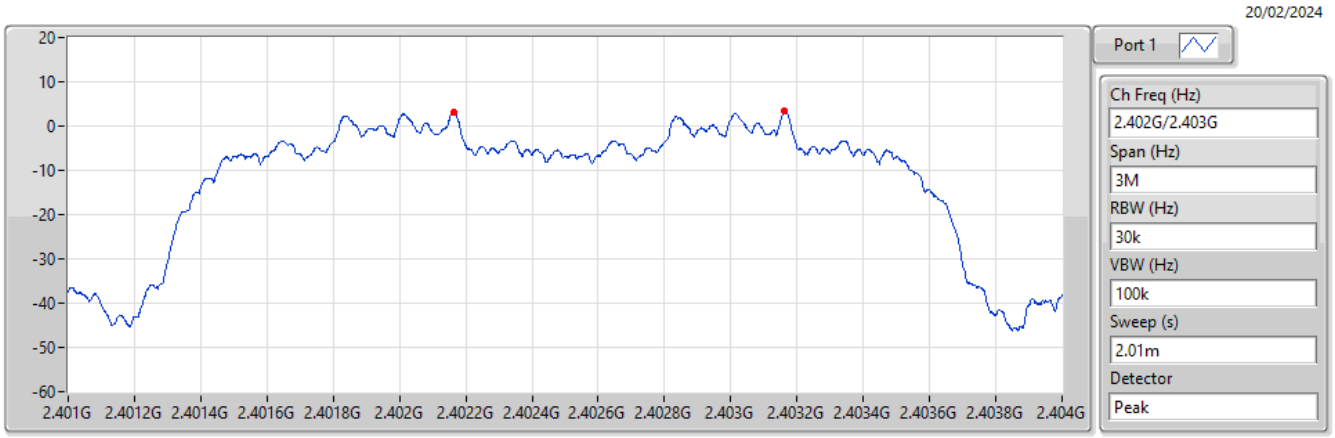
2.48G/2.479GHz



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.479163G	2.480162G	999k	584.2485k

2.4-2.4835GHz_BT-EDR(2Mbps) **Channel Separation-FS**

2.402G/2.403GHz



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.402164G	2.403163G	999k	871.794k

2.4-2.4835GHz_BT-EDR(3Mbps) **Channel Separation-FS**

2.44G/2.441GHz

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Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.440166G	2.441159G	993k	853.812k

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	10.57	0.01140
BT-EDR(2Mbps)	9.90	0.00977
BT-EDR(3Mbps)	10.54	0.01132

Result

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	2.70	9.23	21.00
2440MHz	Pass	2.70	8.91	21.00
2480MHz	Pass	2.70	10.57	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	2.70	6.88	21.00
2440MHz	Pass	2.70	9.14	21.00
2480MHz	Pass	2.70	9.90	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	2.70	6.55	21.00
2440MHz	Pass	2.70	9.03	21.00
2480MHz	Pass	2.70	10.54	21.00

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

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	9.77	0.00948
BT-EDR(2Mbps)	7.82	0.00605
BT-EDR(3Mbps)	7.94	0.00622

Result

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	2.70	8.48	21.00
2440MHz	Pass	2.70	8.25	21.00
2480MHz	Pass	2.70	9.77	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	2.70	3.77	21.00
2440MHz	Pass	2.70	6.37	21.00
2480MHz	Pass	2.70	7.82	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	2.70	3.71	21.00
2440MHz	Pass	2.70	6.21	21.00
2480MHz	Pass	2.70	7.94	21.00

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

Summary

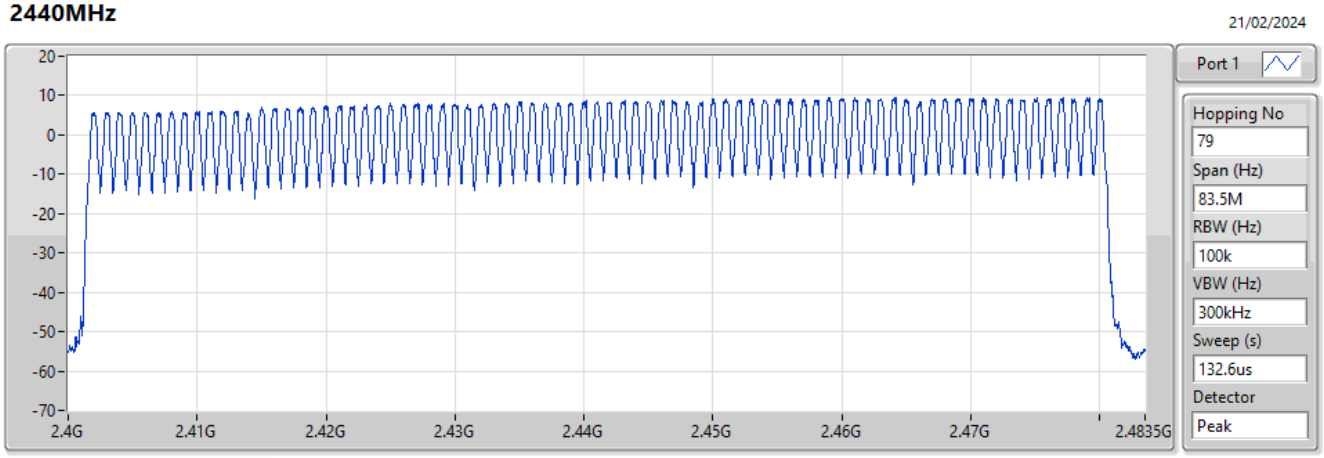
Mode	Max-Hop No
2.4-2.4835GHz	-
BT-BR(1Mbps)	79
BT-EDR(2Mbps)	79
BT-EDR(3Mbps)	79

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

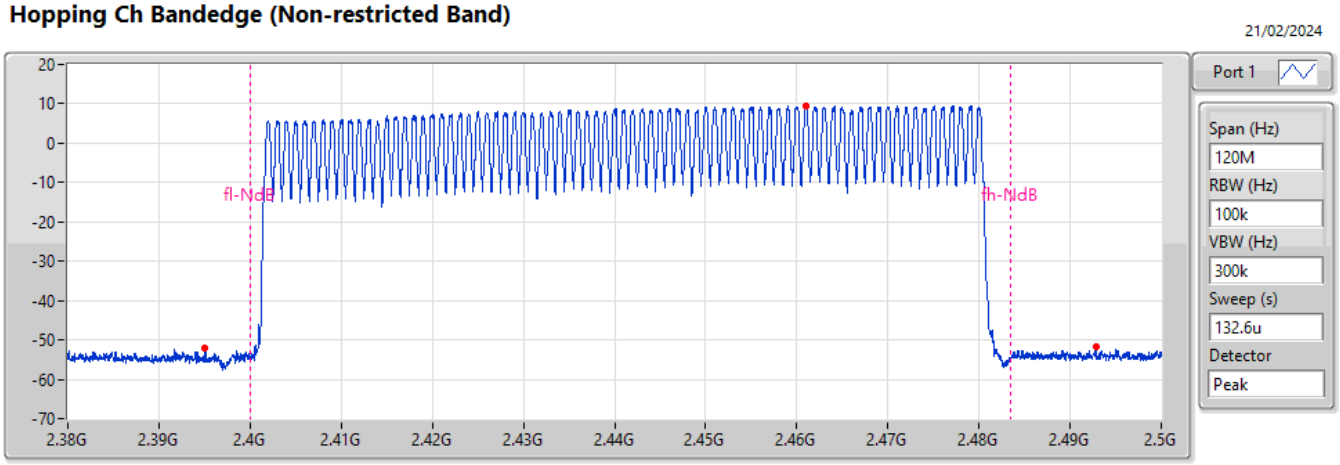


Hopping No	Limit
79	15

2.4-2.4835GHz_BT-BR(1Mbps)

2440MHz

Hopping Ch Bandedge (Non-restricted Band)



Limit(dBm)	Ref(Hz)	Ref(dBm)	BE-l(Hz)	BE-l(dBm)	BE-h(Hz)	BE-h(dBm)
-10.43	2.461G	9.57	2.39509G	-52.23	2.492845G	-51.68

2.4-2.4835GHz_BT-BR(1Mbps)

2440MHz

Hopping Ch Bandedge (Restricted Band)

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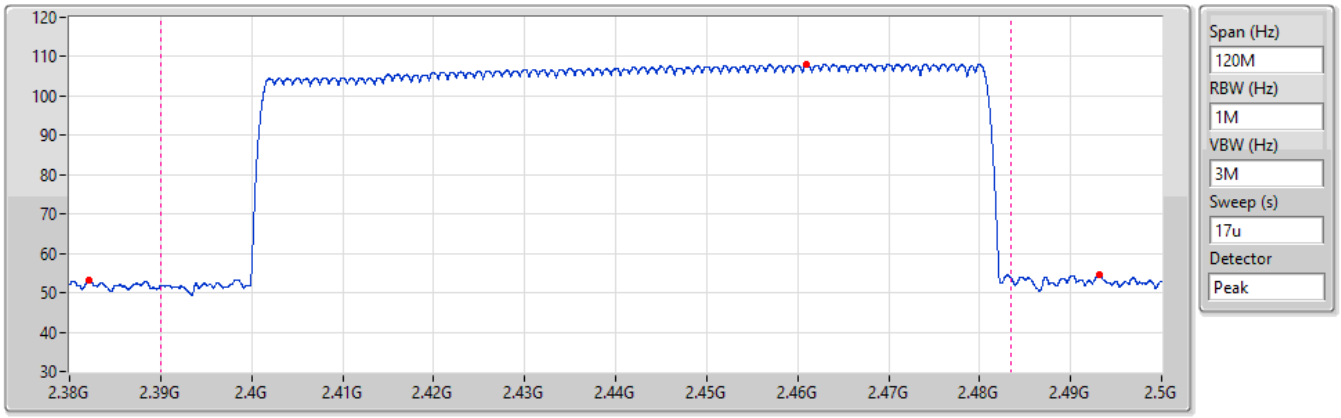
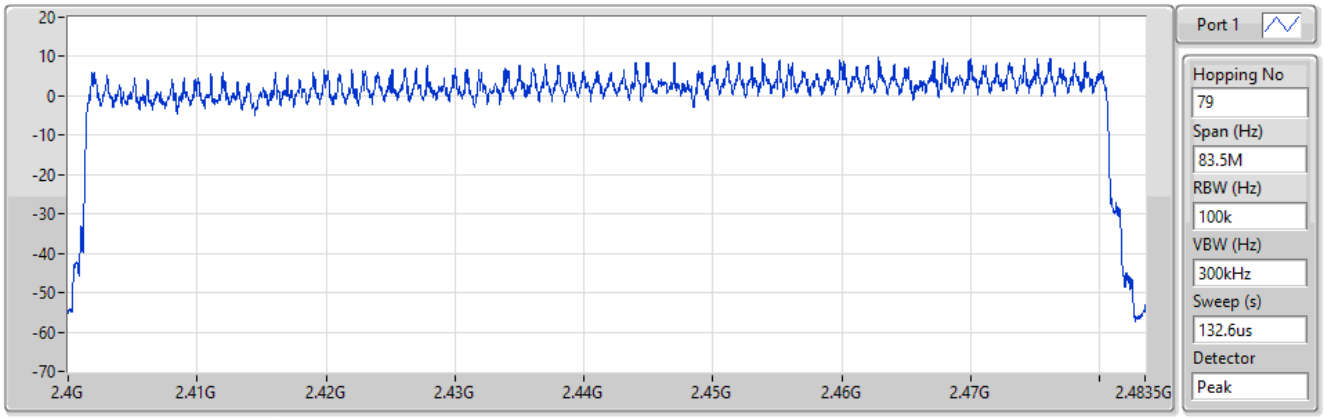


Ref(Hz)	Ref(dBuV/m)	BE-l(Hz)	PK(dBuV/m)	AV(dBuV/m)	BE-h(Hz)	PK(dBuV/m)	AV(dBuV/m)	LimPK(dBuV/	LimAV(dBuV/	Tx On(ms)	DCF(dB)
2.461G	108.2	2.38213G	53.24	23.14	2.4931G	54.59	24.49	74	54	3.125	-30.1

2.4-2.4835GHz_BT-EDR(2Mbps) **Hopping-FS**

2440MHz

20/02/2024

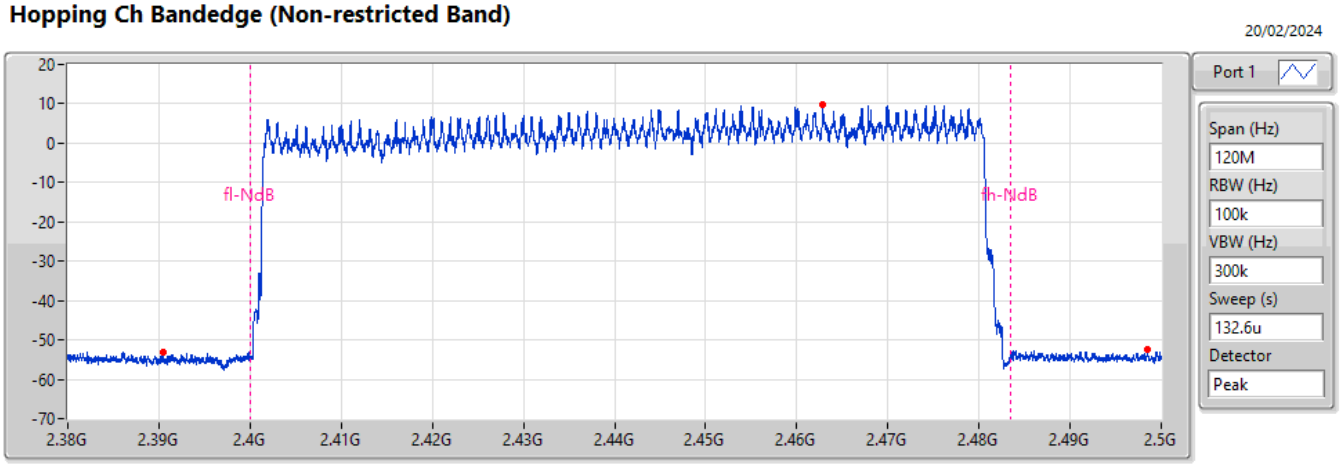


Hopping No	Limit
79	15

2.4-2.4835GHz_BT-EDR(2Mbps)

2440MHz

Hopping Ch Bandedge (Non-restricted Band)

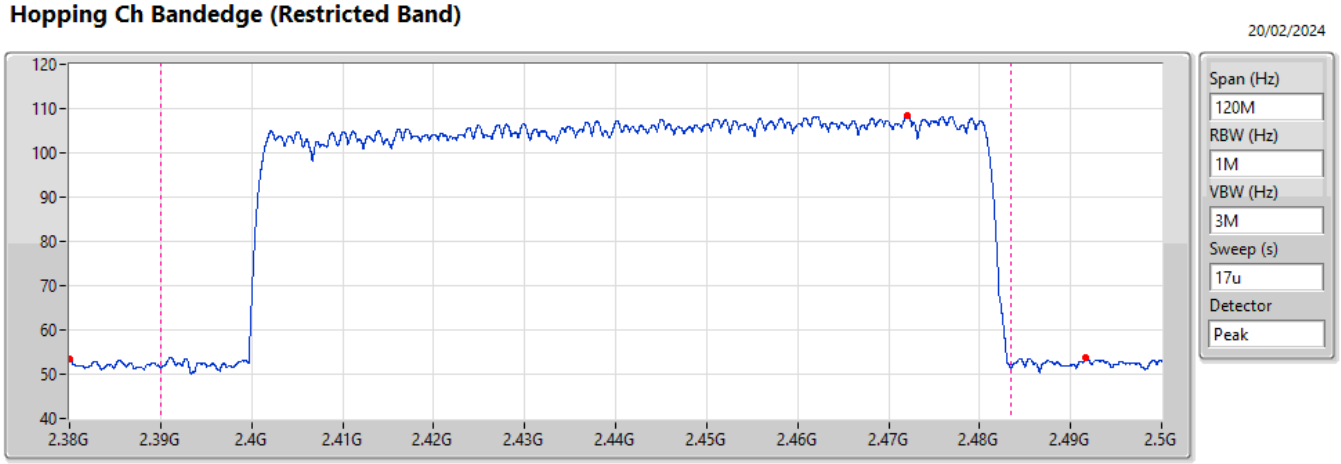


Limit(dBm)	Ref(Hz)	Ref(dBm)	BE-l(Hz)	BE-l(dBm)	BE-h(Hz)	BE-h(dBm)
-10.36	2.462845G	9.64	2.39041G	-53.06	2.498455G	-52.38

2.4-2.4835GHz_BT-EDR(2Mbps)

2440MHz

Hopping Ch Bandedge (Restricted Band)

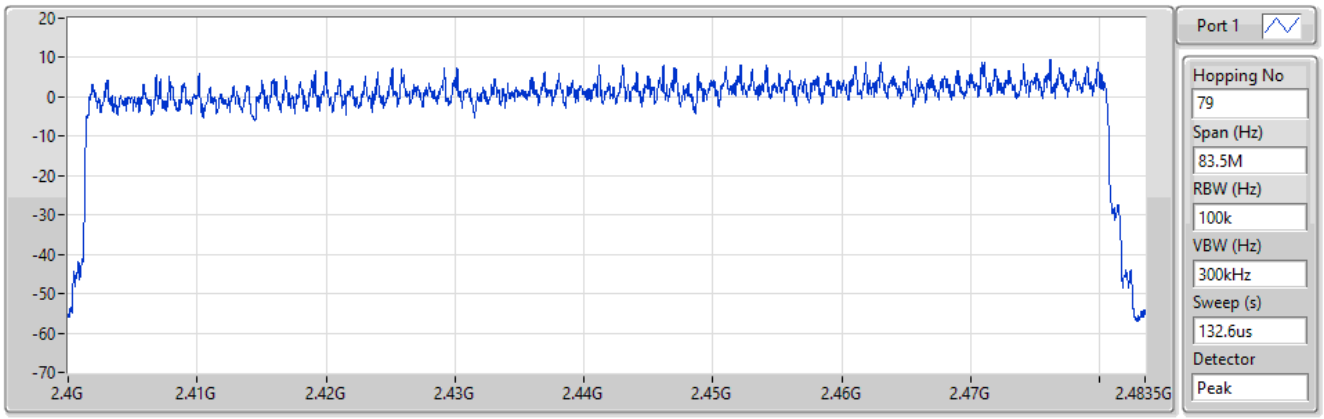


Ref(Hz)	Ref(dBuV/m)	BE-l(Hz)	PK(dBuV/m)	AV(dBuV/m)	BE-h(Hz)	PK(dBuV/m)	AV(dBuV/m)	LimPK(dBuV/	LimAV(dBuV/	Tx On(ms)	DCF(dB)
2.471995G	108.41	2.38G	53.33	23.23	2.49172G	53.61	23.51	74	54	3.125	-30.1

2.4-2.4835GHz_BT-EDR(3Mbps) **Hopping-FS**

2440MHz

21/02/2024



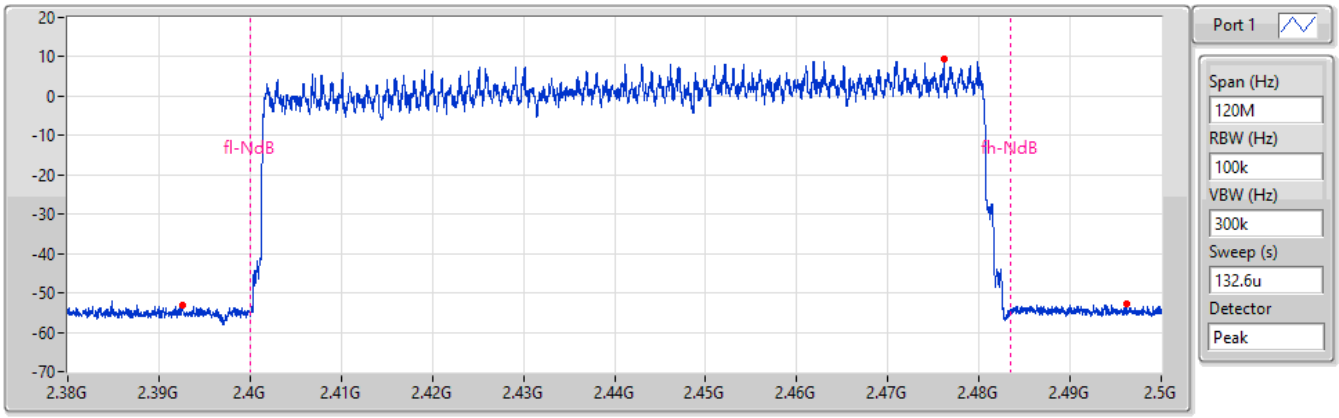
Hopping No	Limit
79	15

2.4-2.4835GHz_BT-EDR(3Mbps)

2440MHz

Hopping Ch Bandedge (Non-restricted Band)

21/02/2024



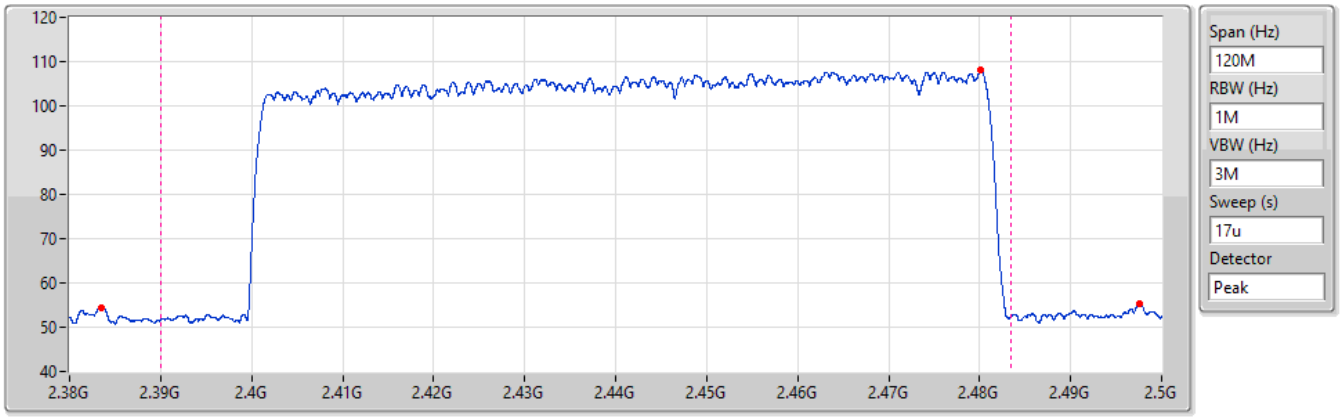
Limit(dBm)	Ref(Hz)	Ref(dBm)	BE-l(Hz)	BE-l(dBm)	BE-h(Hz)	BE-h(dBm)
-10.62	2.476165G	9.38	2.39254G	-53.08	2.496175G	-52.75

2.4-2.4835GHz_BT-EDR(3Mbps)

2440MHz

Hopping Ch Bandedge (Restricted Band)

21/02/2024



Ref(Hz)	Ref(dBuV/m)	BE-l(Hz)	PK(dBuV/m)	AV(dBuV/m)	BE-h(Hz)	PK(dBuV/m)	AV(dBuV/m)	LimPK(dBuV/	LimAV(dBuV/	Tx On(ms)	DCF(dB)
2.48014G	108.01	2.38348G	54.44	24.34	2.497585G	55.37	25.27	74	54	3.125	-30.1

Summary

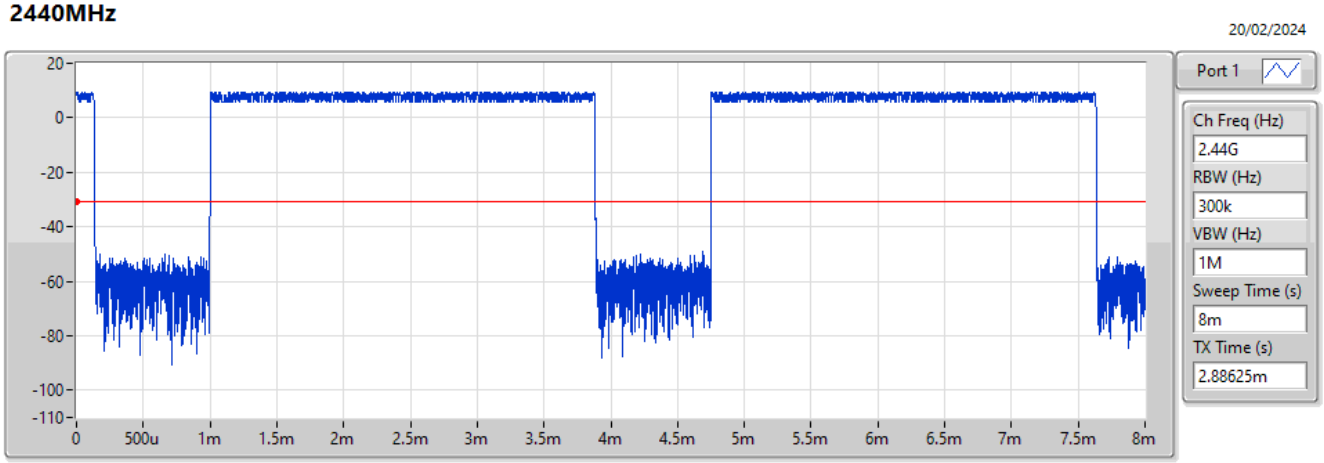
Mode	
2.4-2.4835GHz	-
BT-BR(1Mbps)	307.67425m_DH5
BT-EDR(2Mbps)	307.99405m_DH5
BT-EDR(3Mbps)	308.20725m_DH5

Result

Mode	Result	Period (s)	Dwell (s)	Limit (s)	Tx On (s)
BT-BR(1Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	307.67425m_DH5	400m	2.88625m
BT-EDR(2Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	307.99405m_DH5	400m	2.88925m
BT-EDR(3Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	308.20725m_DH5	400m	2.89125m

2.4-2.4835GHz_BT-BR(1Mbps) **Dwell-FS**

2440MHz

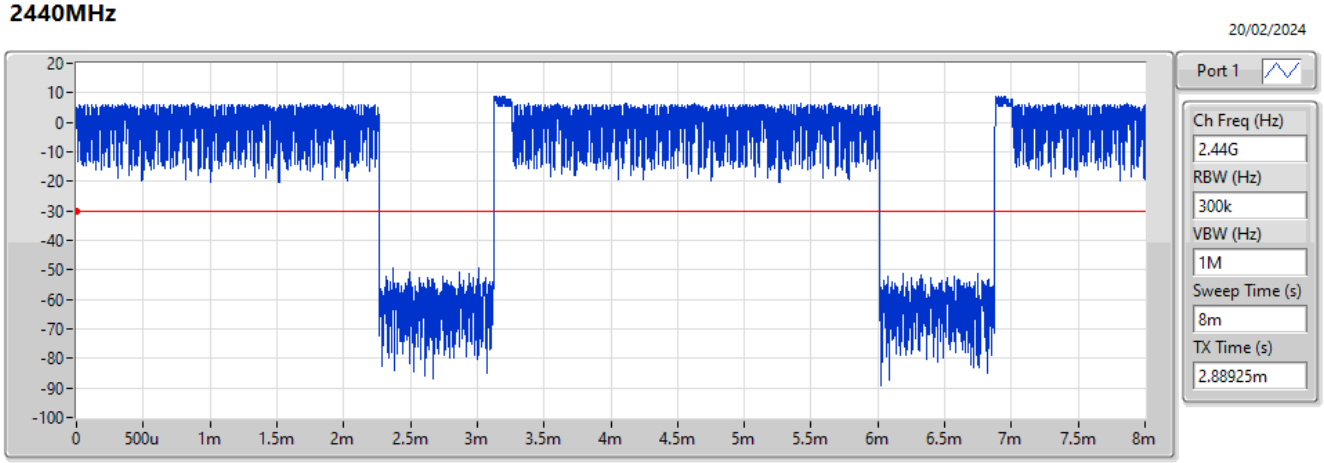


Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	307.67425m_DH5	400m	2.88625m

DH5

2.4-2.4835GHz_BT-EDR(2Mbps) **Dwell-FS**

2440MHz



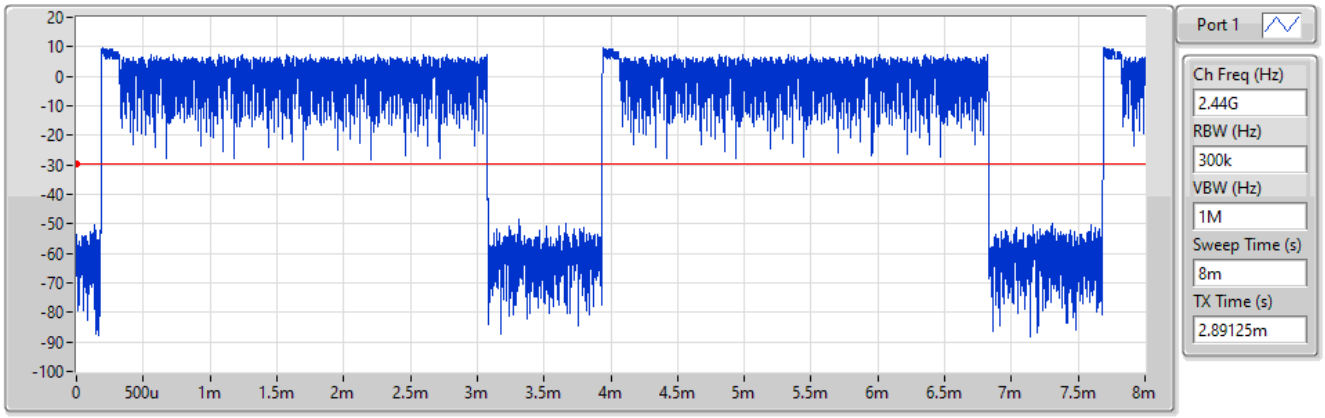
Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	307.99405m_DH5	400m	2.88925m

DH5

2.4-2.4835GHz_BT-EDR(3Mbps) **Dwell-FS**

2440MHz

20/02/2024



Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	308.20725m_DH5	400m	2.89125m

DH5

Summary

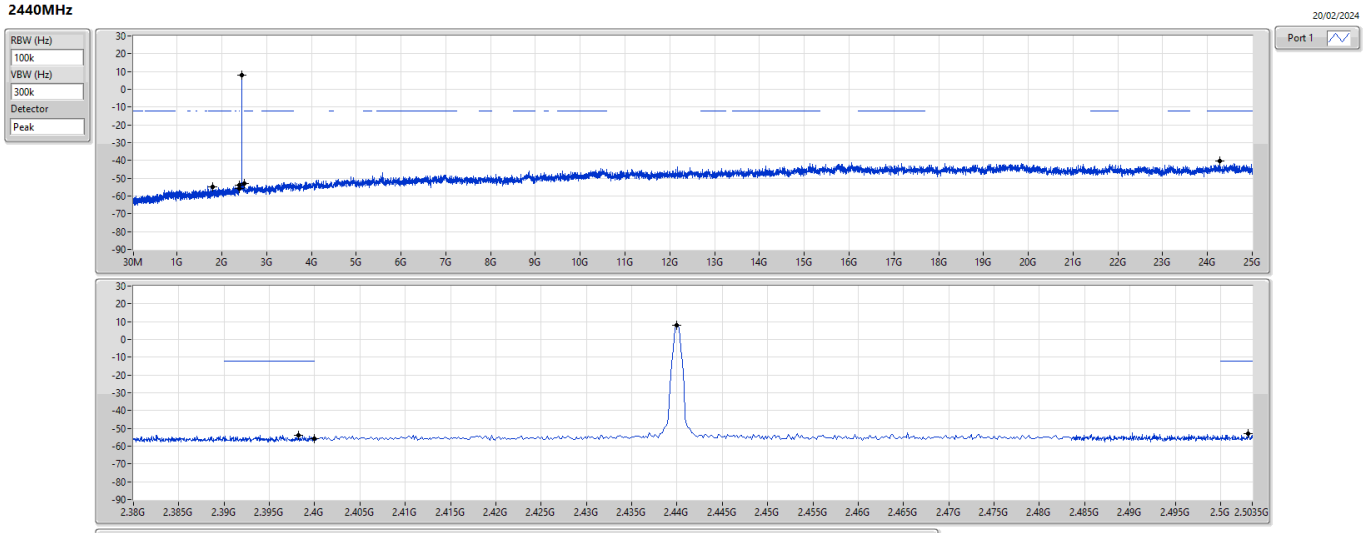
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-BR(1Mbps)	Pass	2.43991G	7.74	-12.26	1.79485G	-55.07	2.39824G	-54.03	2.4G	-55.90	2.50306G	-53.17	24.26605G	-40.33	1
BT-EDR(2Mbps)	Pass	2.40217G	5.99	-14.01	2.11915G	-54.36	2.39996G	-52.59	2.4G	-54.17	2.5011G	-53.31	24.82003G	-41.88	1
BT-EDR(3Mbps)	Pass	2.402G	5.65	-14.35	2.30715G	-55.33	2.4G	-52.93	2.4G	-53.61	2.50298G	-53.08	23.23965G	-41.38	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	2.402G	8.37	-11.63	2.0792G	-54.96	2.39016G	-53.09	2.4G	-52.75	2.5019G	-53.44	15.19153G	-41.46	1
2440MHz	Pass	2.43991G	7.74	-12.26	1.79485G	-55.07	2.39824G	-54.03	2.4G	-55.90	2.50306G	-53.17	24.26605G	-40.33	1
2480MHz	Pass	2.48016G	9.24	-10.76	2.05688G	-54.75	2.39848G	-53.44	2.4G	-56.49	2.50018G	-53.38	24.06921G	-40.86	1
BT-EDR(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40217G	5.99	-14.01	2.11915G	-54.36	2.39996G	-52.59	2.4G	-54.17	2.5011G	-53.31	24.82003G	-41.88	1
2440MHz	Pass	2.43991G	8.24	-11.76	1.8489G	-54.42	2.3928G	-53.84	2.4G	-55.80	2.50346G	-53.68	24.4629G	-41.35	1
2480MHz	Pass	2.48016G	9.09	-10.91	1.95465G	-55.29	2.39144G	-53.95	2.4G	-56.08	2.5009G	-53.71	17.52273G	-41.48	1
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.402G	5.65	-14.35	2.30715G	-55.33	2.4G	-52.93	2.4G	-53.61	2.50298G	-53.08	23.23965G	-41.38	1
2440MHz	Pass	2.43991G	7.46	-12.54	1.85948G	-54.92	2.39476G	-53.67	2.4G	-55.21	2.50138G	-53.62	15.18309G	-40.87	1
2480MHz	Pass	2.47999G	9.19	-10.81	1.816G	-55.06	2.39188G	-52.71	2.4G	-54.85	2.50282G	-52.33	17.30338G	-41.39	1

2.4-2.4835GHz_BT-BR(1Mbps) **CSENdB-FS**

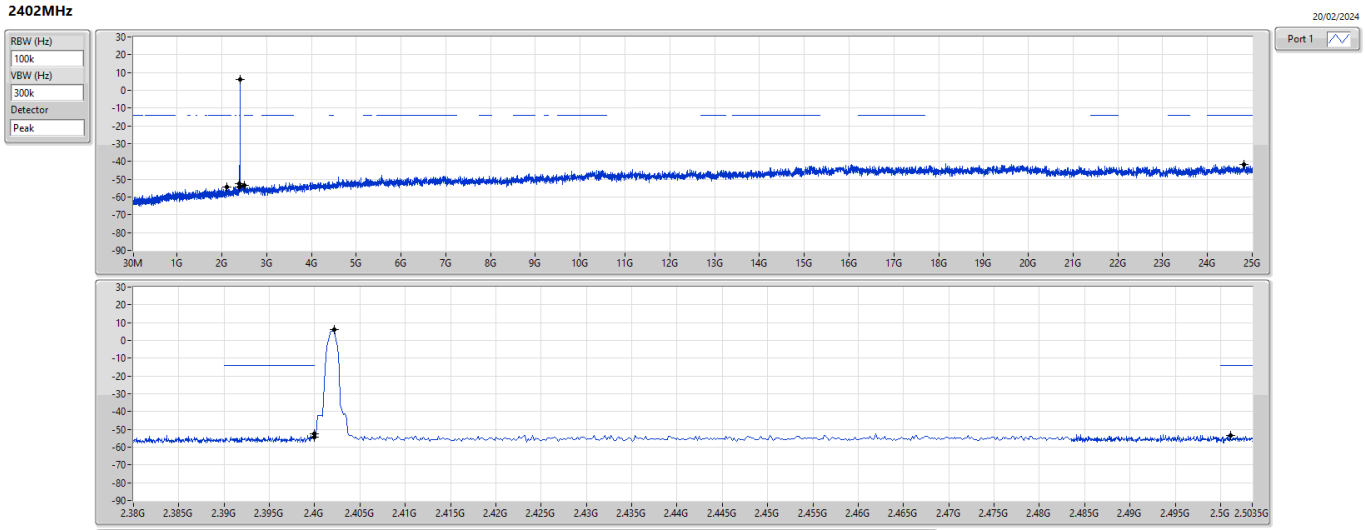
2440MHz



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	7.74	-12.26	1.79485G	-55.07	2.39824G	-54.03	2.4G	-55.90	2.50306G	-53.17	24.26605G	-40.33	1

2.4-2.4835GHz_BT-EDR(2Mbps) **CSENdB-FS**

2402MHz

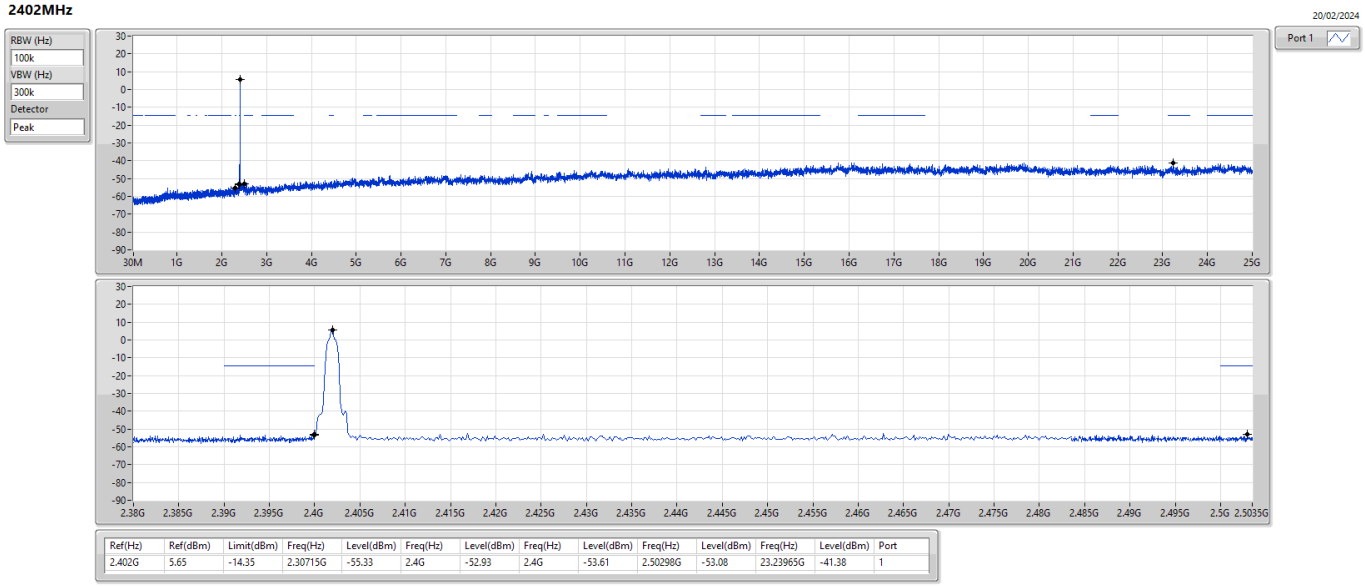


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.40217G	5.99	-14.01	2.11915G	-54.36	2.39996G	-52.59	2.4G	-54.17	2.5011G	-53.31	24.82003G	-41.88	1

2.4-2.4835GHz_BT-EDR(3Mbps) **CSENdB-FS**

2402MHz

20/02/2024



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
2.402G	5.65	-14.35	2.30715G	-55.33	2.4G	-52.93	2.4G	-53.61	2.50298G	-53.08	23.23965G	-41.38	1

Summary

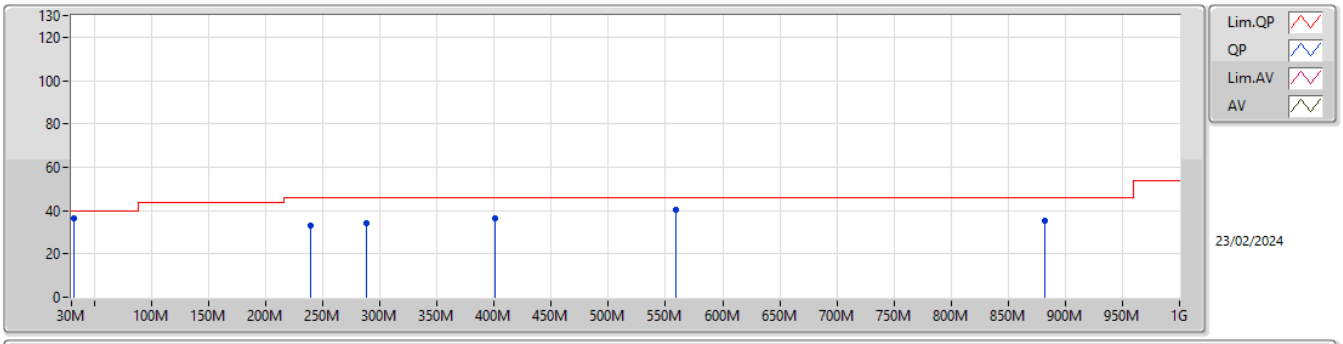
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
BT-BR(1Mbps)	Pass	QP	288.02M	44.66	46.00	-1.34	3	Horizontal	108	1.00

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-
2440MHz_Adapter1	Pass	PK	31.94M	34.65	40.00	-5.35	3	Vertical	360	3.00
2440MHz_Adapter1	Pass	PK	239.52M	34.08	46.00	-11.92	3	Vertical	360	3.00
2440MHz_Adapter1	Pass	PK	286.08M	33.47	46.00	-12.53	3	Vertical	360	3.00
2440MHz_Adapter1	Pass	PK	400.54M	39.16	46.00	-6.84	3	Vertical	360	3.00
2440MHz_Adapter1	Pass	PK	559.62M	38.94	46.00	-7.06	3	Vertical	360	3.00
2440MHz_Adapter1	Pass	PK	881.66M	37.27	46.00	-8.73	3	Vertical	360	3.00
2440MHz_Adapter1	Pass	PK	239.52M	38.41	46.00	-7.59	3	Horizontal	0	3.00
2440MHz_Adapter1	Pass	PK	400.54M	41.02	46.00	-4.98	3	Horizontal	0	3.00
2440MHz_Adapter1	Pass	PK	559.62M	38.08	46.00	-7.92	3	Horizontal	0	3.00
2440MHz_Adapter1	Pass	PK	800.18M	41.36	46.00	-4.64	3	Horizontal	0	3.00
2440MHz_Adapter1	Pass	PK	881.66M	41.29	46.00	-4.71	3	Horizontal	0	3.00
2440MHz_Adapter1	Pass	QP	288.02M	43.37	46.00	-2.63	3	Horizontal	110	1.00
2440MHz_Adapter2	Pass	PK	31.94M	36.43	40.00	-3.57	3	Vertical	360	1.00
2440MHz_Adapter2	Pass	PK	239.52M	32.84	46.00	-13.16	3	Vertical	360	1.00
2440MHz_Adapter2	Pass	PK	288.02M	34.44	46.00	-11.56	3	Vertical	360	1.00
2440MHz_Adapter2	Pass	PK	400.54M	36.61	46.00	-9.39	3	Vertical	360	1.00
2440MHz_Adapter2	Pass	PK	559.62M	40.58	46.00	-5.42	3	Vertical	360	1.00
2440MHz_Adapter2	Pass	PK	881.66M	35.21	46.00	-10.79	3	Vertical	360	1.00
2440MHz_Adapter2	Pass	PK	239.52M	39.85	46.00	-6.15	3	Horizontal	0	1.00
2440MHz_Adapter2	Pass	PK	400.54M	37.50	46.00	-8.50	3	Horizontal	0	1.00
2440MHz_Adapter2	Pass	PK	559.62M	37.41	46.00	-8.59	3	Horizontal	0	1.00
2440MHz_Adapter2	Pass	PK	800.18M	41.96	46.00	-4.04	3	Horizontal	0	1.00
2440MHz_Adapter2	Pass	PK	881.66M	39.58	46.00	-6.42	3	Horizontal	0	1.00
2440MHz_Adapter2	Pass	QP	288.02M	44.66	46.00	-1.34	3	Horizontal	108	1.00

2.4-2.4835GHz_BT-BR(1Mbps)

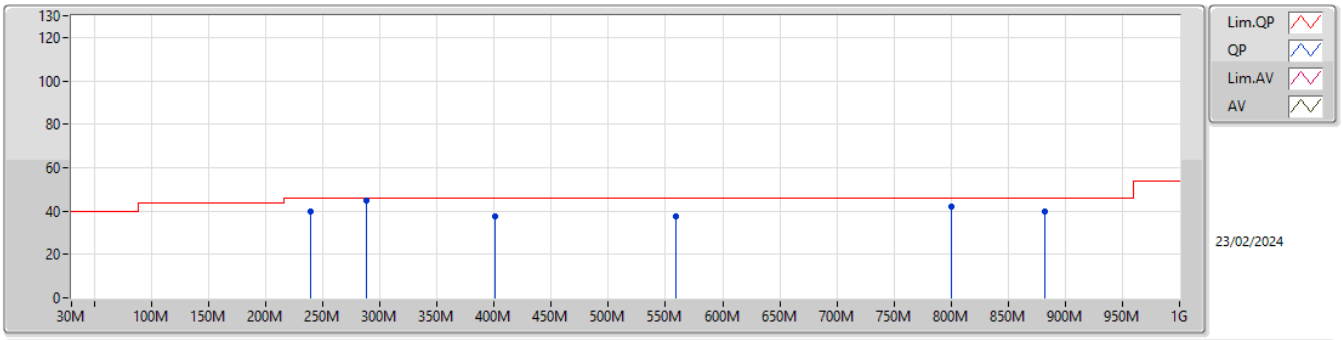
2440MHz_Adapter2



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)
PK	31.94M	36.43	40.00	-3.57	-19.29	3	Vertical	360	1.00	55.72	24.52	0.42	44.23
PK	239.52M	32.84	46.00	-13.16	-25.71	3	Vertical	360	1.00	58.55	17.44	1.05	44.20
PK	288.02M	34.44	46.00	-11.56	-23.71	3	Vertical	360	1.00	58.15	19.26	1.15	44.12
PK	400.54M	36.61	46.00	-9.39	-20.37	3	Vertical	360	1.00	56.98	22.22	1.34	43.93
PK	559.62M	40.58	46.00	-5.42	-15.46	3	Vertical	360	1.00	56.04	26.68	1.60	43.74
PK	881.66M	35.21	46.00	-10.79	-12.31	3	Vertical	360	1.00	47.52	29.10	1.98	43.39

2.4-2.4835GHz_BT-BR(1Mbps)

2440MHz_Adapter2



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)
PK	239.52M	39.85	46.00	-6.15	-25.71	3	Horizontal	0	1.00	65.56	17.44	1.05	44.20
PK	400.54M	37.50	46.00	-8.50	-20.37	3	Horizontal	0	1.00	57.87	22.22	1.34	43.93
PK	559.62M	37.41	46.00	-8.59	-15.46	3	Horizontal	0	1.00	52.87	26.68	1.60	43.74
PK	800.18M	41.96	46.00	-4.04	-13.49	3	Horizontal	0	1.00	55.45	28.00	1.93	43.42
PK	881.66M	39.58	46.00	-6.42	-12.31	3	Horizontal	0	1.00	51.89	29.10	1.98	43.39
QP	288.02M	44.66	46.00	-1.34	-23.71	3	Horizontal	108	1.00	68.37	19.26	1.15	44.12

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	2.4972G	57.56	74.00	-16.44	3	Vertical	283	1.21
BT-EDR(3Mbps)	Pass	PK	2.4856G	58.36	74.00	-15.64	3	Vertical	261	1.24

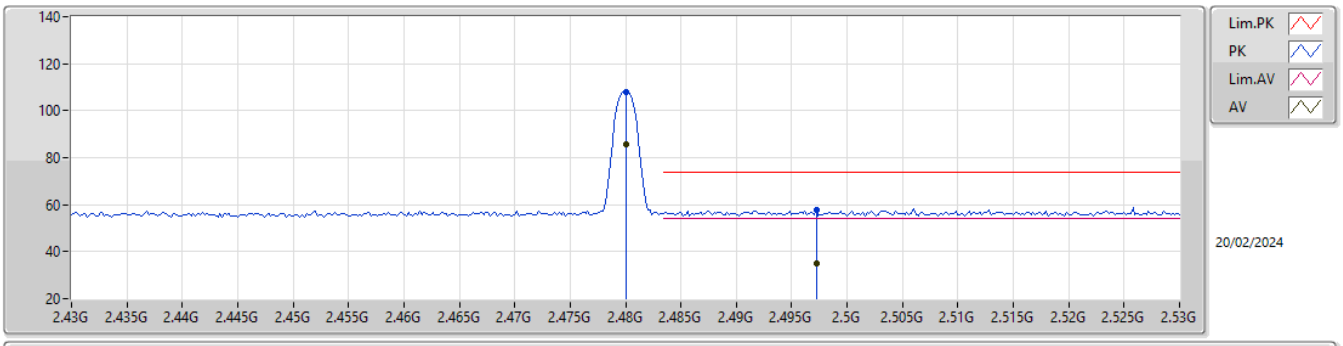
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.387G	34.30	54.00	-19.70	3	Vertical	246	1.17
2402MHz	Pass	AV	2.402G	85.98	Inf	-Inf	3	Vertical	246	1.17
2402MHz	Pass	PK	2.387G	56.80	74.00	-17.20	3	Vertical	246	1.17
2402MHz	Pass	PK	2.402G	108.48	Inf	-Inf	3	Vertical	246	1.17
2402MHz	Pass	AV	2.3588G	34.14	54.00	-19.86	3	Horizontal	160	2.35
2402MHz	Pass	AV	2.402G	73.37	Inf	-Inf	3	Horizontal	160	2.35
2402MHz	Pass	PK	2.3588G	56.64	74.00	-17.36	3	Horizontal	160	2.35
2402MHz	Pass	PK	2.402G	95.87	Inf	-Inf	3	Horizontal	160	2.35
2402MHz	Pass	AV	4.80412G	29.12	54.00	-24.88	3	Vertical	126	1.03
2402MHz	Pass	PK	4.80412G	51.62	74.00	-22.38	3	Vertical	126	1.03
2402MHz	Pass	AV	4.80398G	29.16	54.00	-24.84	3	Horizontal	173	1.12
2402MHz	Pass	PK	4.80398G	51.66	74.00	-22.34	3	Horizontal	173	1.12
2440MHz	Pass	AV	2.3468G	34.53	54.00	-19.47	3	Vertical	256	1.24
2440MHz	Pass	AV	2.44G	85.35	Inf	-Inf	3	Vertical	256	1.24
2440MHz	Pass	AV	2.4884G	34.76	54.00	-19.24	3	Vertical	256	1.24
2440MHz	Pass	PK	2.3468G	57.03	74.00	-16.97	3	Vertical	256	1.24
2440MHz	Pass	PK	2.44G	107.85	Inf	-Inf	3	Vertical	256	1.24
2440MHz	Pass	PK	2.4884G	57.26	74.00	-16.74	3	Vertical	256	1.24
2440MHz	Pass	AV	2.3784G	34.83	54.00	-19.17	3	Horizontal	188	1.07
2440MHz	Pass	AV	2.44G	72.09	Inf	-Inf	3	Horizontal	188	1.07
2440MHz	Pass	AV	2.4888G	34.62	54.00	-19.38	3	Horizontal	188	1.07
2440MHz	Pass	PK	2.3784G	57.33	74.00	-16.67	3	Horizontal	188	1.07
2440MHz	Pass	PK	2.44G	94.59	Inf	-Inf	3	Horizontal	188	1.07
2440MHz	Pass	PK	2.4888G	57.12	74.00	-16.88	3	Horizontal	188	1.07
2440MHz	Pass	AV	4.88022G	28.10	54.00	-25.90	3	Vertical	249	1.18
2440MHz	Pass	PK	4.88022G	50.60	74.00	-23.40	3	Vertical	178	1.69
2440MHz	Pass	AV	4.88033G	24.05	54.00	-29.95	3	Horizontal	249	1.18
2440MHz	Pass	PK	4.88033G	46.55	74.00	-27.45	3	Horizontal	153	1.21
2480MHz	Pass	AV	2.48G	85.59	Inf	-Inf	3	Vertical	283	1.21
2480MHz	Pass	AV	2.4972G	35.06	54.00	-18.94	3	Vertical	283	1.21
2480MHz	Pass	PK	2.48G	108.09	Inf	-Inf	3	Vertical	283	1.21
2480MHz	Pass	PK	2.4972G	57.56	74.00	-16.44	3	Vertical	283	1.21
2480MHz	Pass	AV	2.48G	72.54	Inf	-Inf	3	Horizontal	249	1.18
2480MHz	Pass	AV	2.4886G	35.01	54.00	-18.99	3	Horizontal	249	1.18
2480MHz	Pass	PK	2.48G	95.04	Inf	-Inf	3	Horizontal	249	1.18
2480MHz	Pass	PK	2.4886G	57.51	74.00	-16.49	3	Horizontal	249	1.18
2480MHz	Pass	AV	4.96017G	30.58	54.00	-23.42	3	Vertical	178	1.33
2480MHz	Pass	PK	4.96017G	53.08	74.00	-20.92	3	Vertical	178	1.33
2480MHz	Pass	AV	4.96003G	29.35	54.00	-24.65	3	Horizontal	166	1.96
2480MHz	Pass	PK	4.96003G	51.85	74.00	-22.15	3	Horizontal	166	1.96
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3532G	34.60	54.00	-19.40	3	Vertical	249	1.18
2402MHz	Pass	AV	2.402G	85.52	Inf	-Inf	3	Vertical	249	1.18
2402MHz	Pass	PK	2.3532G	57.10	74.00	-16.90	3	Vertical	249	1.18
2402MHz	Pass	PK	2.402G	108.02	Inf	-Inf	3	Vertical	249	1.18
2402MHz	Pass	AV	2.364G	34.45	54.00	-19.55	3	Horizontal	186	1.05
2402MHz	Pass	AV	2.4022G	73.51	Inf	-Inf	3	Horizontal	186	1.05
2402MHz	Pass	PK	2.364G	56.95	74.00	-17.05	3	Horizontal	186	1.05
2402MHz	Pass	PK	2.4022G	96.01	Inf	-Inf	3	Horizontal	186	1.05
2402MHz	Pass	AV	4.8044G	26.13	54.00	-27.87	3	Vertical	176	1.48
2402MHz	Pass	PK	4.8044G	48.63	74.00	-25.37	3	Vertical	176	1.48
2402MHz	Pass	AV	4.80399G	28.32	54.00	-25.68	3	Horizontal	174	1.00
2402MHz	Pass	PK	4.80399G	50.82	74.00	-23.18	3	Horizontal	174	1.00
2440MHz	Pass	AV	2.3812G	34.22	54.00	-19.78	3	Vertical	261	1.24
2440MHz	Pass	AV	2.44G	83.91	Inf	-Inf	3	Vertical	261	1.24
2440MHz	Pass	AV	2.4856G	35.86	54.00	-18.14	3	Vertical	261	1.24
2440MHz	Pass	PK	2.3812G	56.72	74.00	-17.28	3	Vertical	261	1.24
2440MHz	Pass	PK	2.44G	106.41	Inf	-Inf	3	Vertical	261	1.24
2440MHz	Pass	PK	2.4856G	58.36	74.00	-15.64	3	Vertical	261	1.24
2440MHz	Pass	AV	2.3692G	34.83	54.00	-19.17	3	Horizontal	186	1.04

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2440MHz	Pass	AV	2.44G	71.62	Inf	-Inf	3	Horizontal	186	1.04
2440MHz	Pass	AV	2.4872G	34.98	54.00	-19.02	3	Horizontal	186	1.04
2440MHz	Pass	PK	2.3692G	57.33	74.00	-16.67	3	Horizontal	186	1.04
2440MHz	Pass	PK	2.44G	94.12	Inf	-Inf	3	Horizontal	186	1.04
2440MHz	Pass	PK	2.4872G	57.48	74.00	-16.52	3	Horizontal	186	1.04
2440MHz	Pass	AV	4.88014G	27.95	54.00	-26.05	3	Vertical	177	1.55
2440MHz	Pass	PK	4.88014G	50.45	74.00	-23.55	3	Vertical	177	1.55
2440MHz	Pass	AV	4.88036G	28.94	54.00	-25.06	3	Horizontal	165	2.59
2440MHz	Pass	PK	4.88036G	51.44	74.00	-22.56	3	Horizontal	165	2.59
2480MHz	Pass	AV	2.48G	85.07	Inf	-Inf	3	Vertical	248	1.02
2480MHz	Pass	AV	2.4972G	35.54	54.00	-18.46	3	Vertical	248	1.02
2480MHz	Pass	PK	2.48G	107.57	Inf	-Inf	3	Vertical	248	1.02
2480MHz	Pass	PK	2.4972G	58.04	74.00	-15.96	3	Vertical	248	1.02
2480MHz	Pass	AV	2.4802G	73.91	Inf	-Inf	3	Horizontal	42	1.05
2480MHz	Pass	AV	2.4916G	34.92	54.00	-19.08	3	Horizontal	42	1.05
2480MHz	Pass	PK	2.4802G	96.11	Inf	-Inf	3	Horizontal	42	1.05
2480MHz	Pass	PK	2.4916G	57.42	74.00	-16.58	3	Horizontal	42	1.05
2480MHz	Pass	AV	4.95972G	33.95	54.00	-20.05	3	Vertical	175	1.02
2480MHz	Pass	PK	4.95972G	56.45	74.00	-17.55	3	Vertical	175	1.02
2480MHz	Pass	AV	4.96017G	28.36	54.00	-25.64	3	Horizontal	167	1.67
2480MHz	Pass	PK	4.96017G	50.86	74.00	-23.14	3	Horizontal	167	1.67

2.4-2.4835GHz_BT-BR(1Mbps)

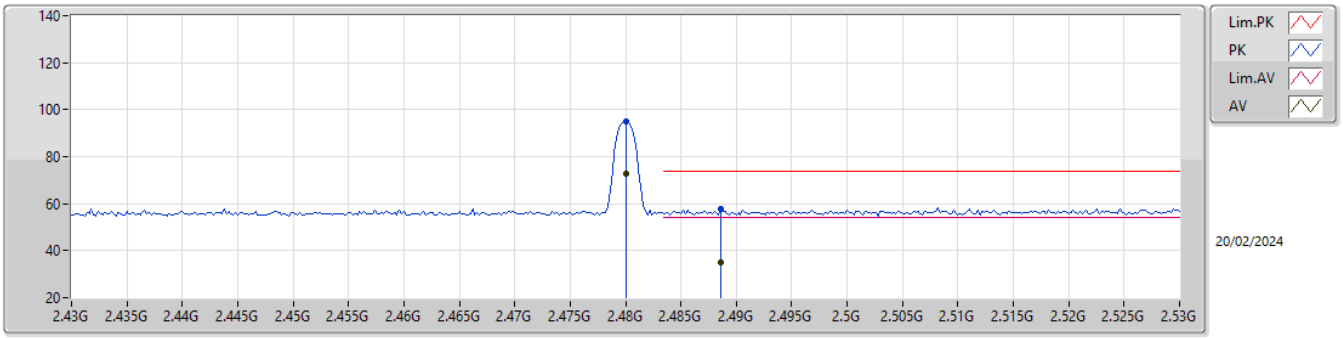
2480MHz_TX



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	2.48G	85.59	Inf	-Inf	31.33	3	Vertical	283	1.21	54.26	27.90	3.43	-
AV	2.4972G	35.06	54.00	-18.94	31.51	3	Vertical	283	1.21	3.55	28.07	3.44	-
PK	2.48G	108.09	Inf	-Inf	31.33	3	Vertical	283	1.21	76.76	27.90	3.43	-
PK	2.4972G	57.56	74.00	-16.44	31.51	3	Vertical	283	1.21	26.05	28.07	3.44	-

2.4-2.4835GHz_BT-BR(1Mbps)

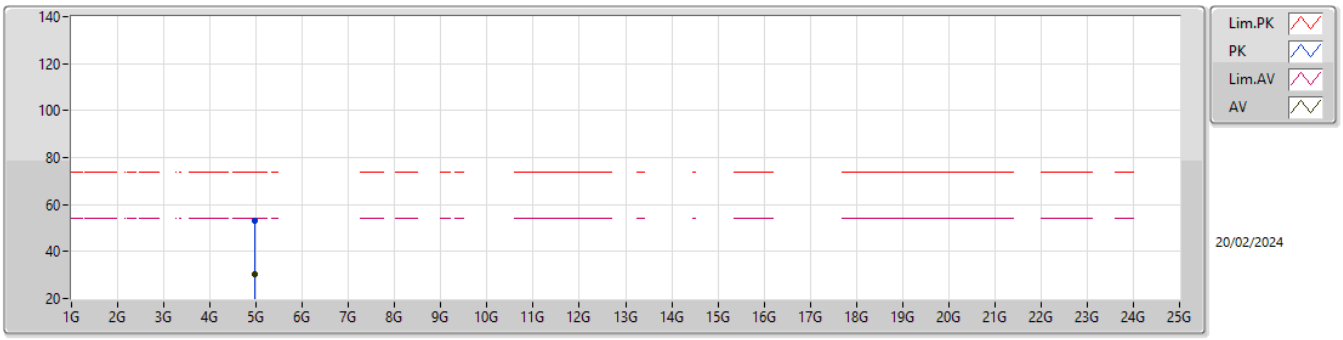
2480MHz_TX



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	2.48G	72.54	Inf	-Inf	31.33	3	Horizontal	249	1.18	41.21	27.90	3.43	-
AV	2.4886G	35.01	54.00	-18.99	31.43	3	Horizontal	249	1.18	3.58	27.99	3.44	-
PK	2.48G	95.04	Inf	-Inf	31.33	3	Horizontal	249	1.18	63.71	27.90	3.43	-
PK	2.4886G	57.51	74.00	-16.49	31.43	3	Horizontal	249	1.18	26.08	27.99	3.44	-

2.4-2.4835GHz_BT-BR(1Mbps)

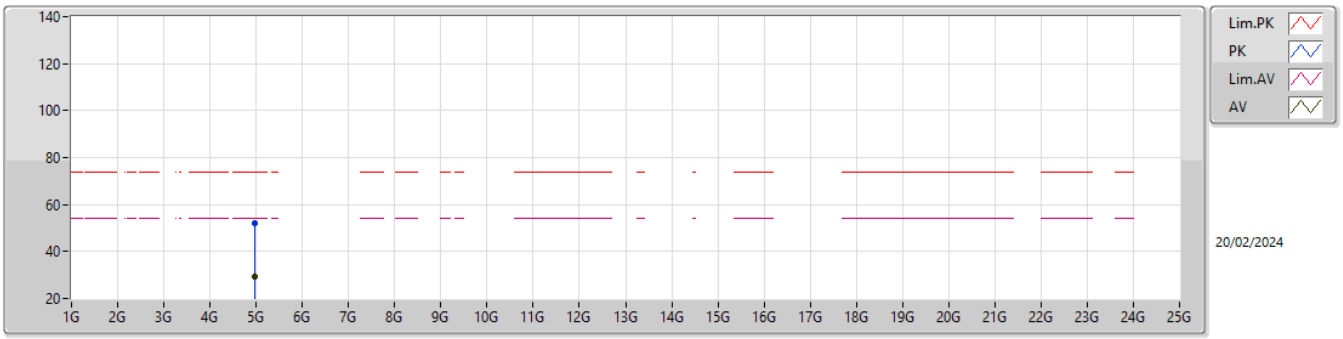
2480MHz_TX



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	4.96017G	30.58	54.00	-23.42	-5.68	3	Vertical	178	1.33	36.26	33.30	5.07	44.05
PK	4.96017G	53.08	74.00	-20.92	-5.68	3	Vertical	178	1.33	58.76	33.30	5.07	44.05

2.4-2.4835GHz_BT-BR(1Mbps)

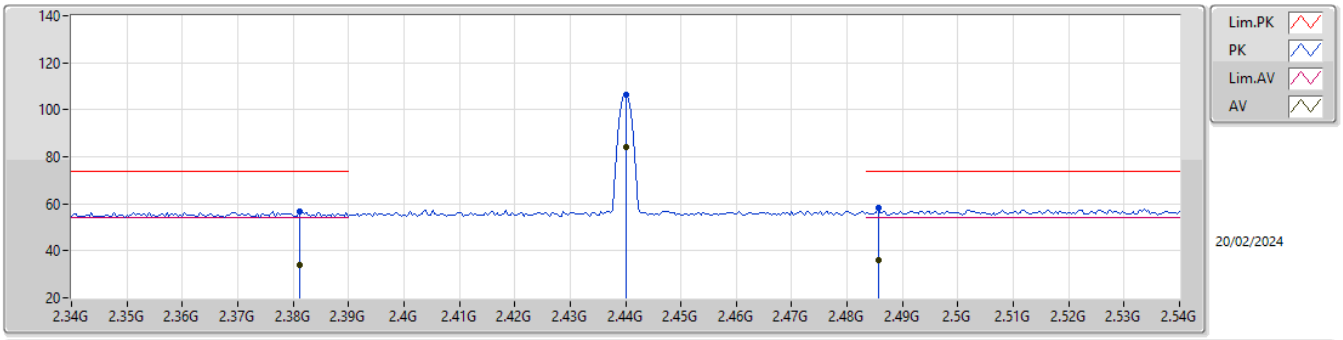
2480MHz_TX



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	4.96003G	29.35	54.00	-24.65	-5.68	3	Horizontal	166	1.96	35.03	33.30	5.07	44.05
PK	4.96003G	51.85	74.00	-22.15	-5.68	3	Horizontal	166	1.96	57.53	33.30	5.07	44.05

2.4-2.4835GHz_BT-EDR(3Mbps)

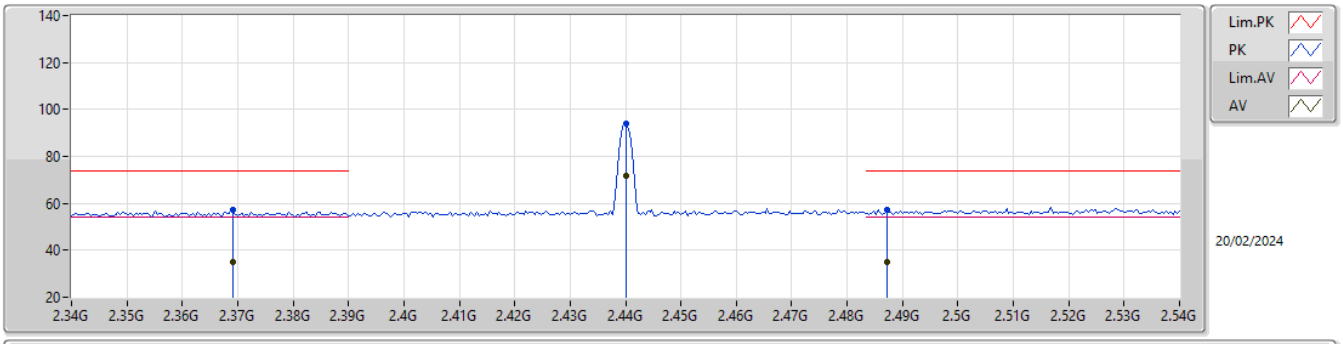
2440MHz_TX



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	2.3812G	34.22	54.00	-19.78	30.85	3	Vertical	261	1.24	3.37	27.50	3.35	-
AV	2.44G	83.91	Inf	-Inf	31.09	3	Vertical	261	1.24	52.82	27.70	3.39	-
AV	2.4856G	35.86	54.00	-18.14	31.39	3	Vertical	261	1.24	4.47	27.96	3.43	-
PK	2.3812G	56.72	74.00	-17.28	30.85	3	Vertical	261	1.24	25.87	27.50	3.35	-
PK	2.44G	106.41	Inf	-Inf	31.09	3	Vertical	261	1.24	75.32	27.70	3.39	-
PK	2.4856G	58.36	74.00	-15.64	31.39	3	Vertical	261	1.24	26.97	27.96	3.43	-

2.4-2.4835GHz_BT-EDR(3Mbps)

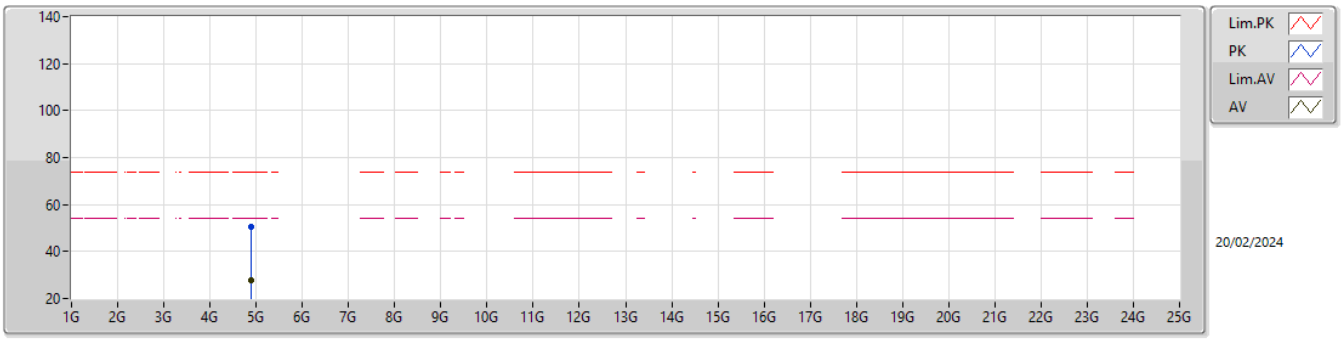
2440MHz_TX



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	2.3692G	34.83	54.00	-19.17	30.84	3	Horizontal	186	1.04	3.99	27.50	3.34	-
AV	2.44G	71.62	Inf	-Inf	31.09	3	Horizontal	186	1.04	40.53	27.70	3.39	-
AV	2.4872G	34.98	54.00	-19.02	31.40	3	Horizontal	186	1.04	3.58	27.97	3.43	-
PK	2.3692G	57.33	74.00	-16.67	30.84	3	Horizontal	186	1.04	26.49	27.50	3.34	-
PK	2.44G	94.12	Inf	-Inf	31.09	3	Horizontal	186	1.04	63.03	27.70	3.39	-
PK	2.4872G	57.48	74.00	-16.52	31.40	3	Horizontal	186	1.04	26.08	27.97	3.43	-

2.4-2.4835GHz_BT-EDR(3Mbps)

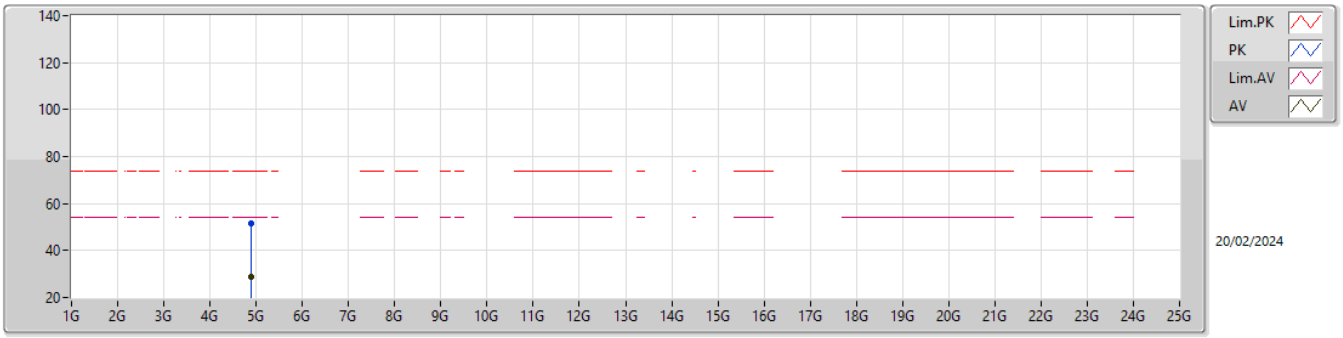
2440MHz_TX



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	4.88014G	27.95	54.00	-26.05	-6.09	3	Vertical	177	1.55	34.04	32.92	5.02	44.03
PK	4.88014G	50.45	74.00	-23.55	-6.09	3	Vertical	177	1.55	56.54	32.92	5.02	44.03

2.4-2.4835GHz_BT-EDR(3Mbps)

2440MHz_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	4.88036G	28.94	54.00	-25.06	-6.09	3	Horizontal	165	2.59	35.03	32.92	5.02	44.03
PK	4.88036G	51.44	74.00	-22.56	-6.09	3	Horizontal	165	2.59	57.53	32.92	5.02	44.03

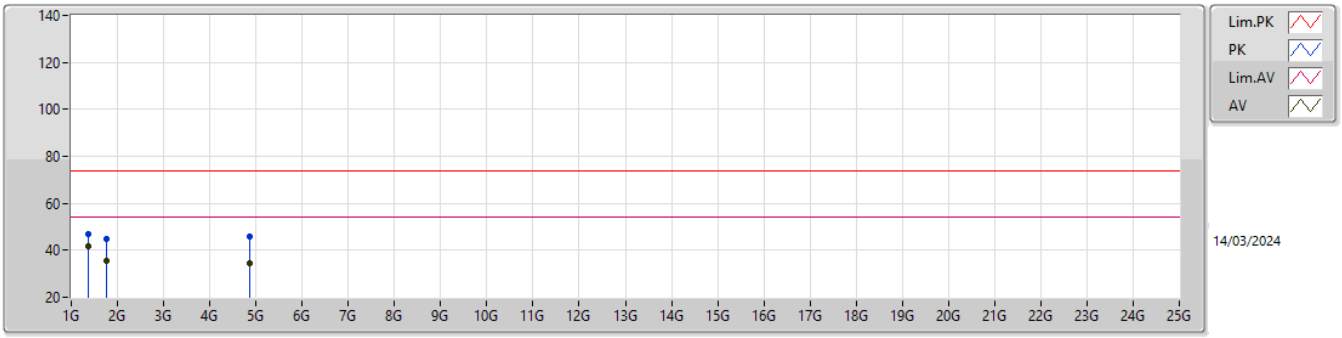
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	1.36G	41.48	54.00	-12.52	Vertical
Mode 2	Pass	AV	1.35999G	42.46	54.00	-11.54	Vertical

Result

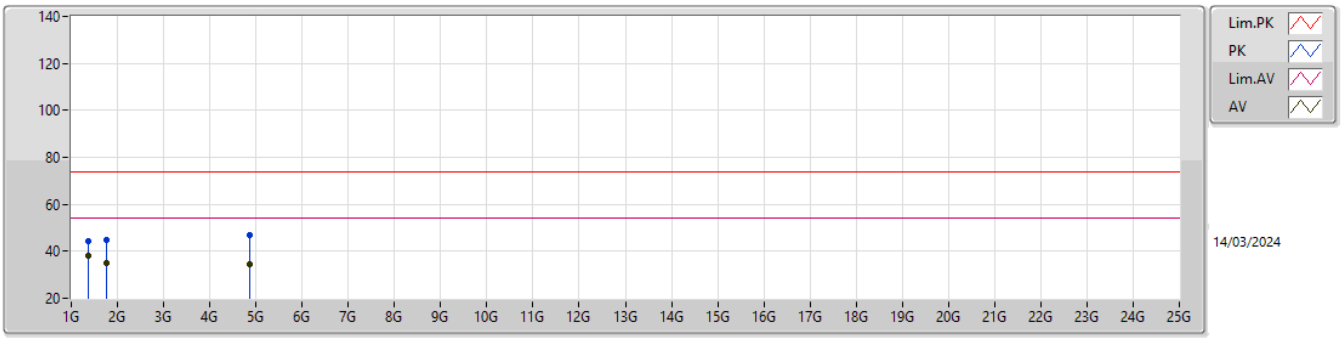
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
Mode 1	Pass	AV	1.36G	41.48	54.00	-12.52	3	Vertical	85	2.07
Mode 1	Pass	AV	1.76G	35.63	54.00	-18.37	3	Vertical	357	1.81
Mode 1	Pass	AV	4.86725G	34.60	54.00	-19.40	3	Vertical	136	2.88
Mode 1	Pass	PK	1.35995G	46.96	74.00	-27.04	3	Vertical	85	2.07
Mode 1	Pass	PK	1.75998G	45.04	74.00	-28.96	3	Vertical	357	1.81
Mode 1	Pass	PK	4.86629G	46.04	74.00	-27.96	3	Vertical	136	2.88
Mode 1	Pass	AV	1.35998G	38.22	54.00	-15.78	3	Horizontal	46	1.59
Mode 1	Pass	AV	1.76G	35.21	54.00	-18.79	3	Horizontal	244	1.47
Mode 1	Pass	AV	4.86677G	34.68	54.00	-19.32	3	Horizontal	125	1.42
Mode 1	Pass	PK	1.36013G	44.09	74.00	-29.91	3	Horizontal	46	1.59
Mode 1	Pass	PK	1.76016G	44.67	74.00	-29.33	3	Horizontal	244	1.47
Mode 1	Pass	PK	4.87076G	46.96	74.00	-27.04	3	Horizontal	125	1.42
Mode 2	Pass	AV	1.35999G	42.46	54.00	-11.54	3	Vertical	69	1.84
Mode 2	Pass	AV	1.59999G	36.17	54.00	-17.83	3	Vertical	328	1.00
Mode 2	Pass	AV	10.40445G	43.30	68.20	-24.90	3	Vertical	346	2.28
Mode 2	Pass	PK	1.36002G	47.10	74.00	-26.90	3	Vertical	69	1.84
Mode 2	Pass	PK	1.6001G	46.61	74.00	-27.39	3	Vertical	328	1.00
Mode 2	Pass	PK	10.39553G	55.84	68.20	-12.36	3	Vertical	346	2.28
Mode 2	Pass	AV	1.35999G	38.57	54.00	-15.43	3	Horizontal	49	1.16
Mode 2	Pass	AV	1.59996G	37.40	54.00	-16.60	3	Horizontal	58	1.24
Mode 2	Pass	AV	10.40467G	43.15	68.20	-25.05	3	Horizontal	303	1.74
Mode 2	Pass	PK	1.35999G	45.25	74.00	-28.75	3	Horizontal	49	1.16
Mode 2	Pass	PK	1.60001G	46.74	74.00	-27.26	3	Horizontal	58	1.24
Mode 2	Pass	PK	10.40258G	56.06	68.20	-12.14	3	Horizontal	303	1.74

Radiated Emissions above 1GHz_Mode 1



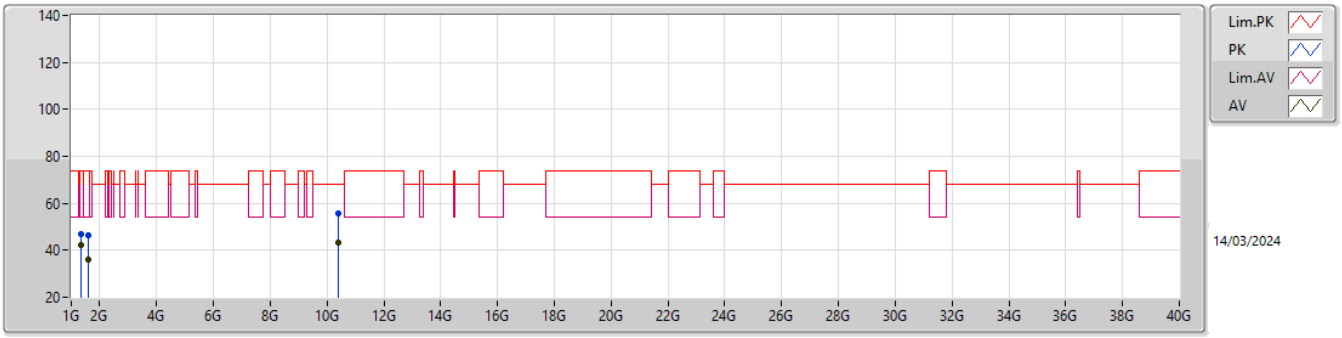
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)	(dBuV/m)	(dB/m)	(dB)	(dB)
AV	1.36G	41.48	54.00	-12.52	-4.30	3	Vertical	85	2.07	45.78	25.60	3.93	33.83
AV	1.76G	35.63	54.00	-18.37	-4.39	3	Vertical	357	1.81	40.02	24.80	4.45	33.64
AV	4.86725G	34.60	54.00	-19.40	6.36	3	Vertical	136	2.88	28.24	32.40	7.97	34.01
PK	1.35995G	46.96	74.00	-27.04	-4.30	3	Vertical	85	2.07	51.26	25.60	3.93	33.83
PK	1.75998G	45.04	74.00	-28.96	-4.39	3	Vertical	357	1.81	49.43	24.80	4.45	33.64
PK	4.86629G	46.04	74.00	-27.96	6.36	3	Vertical	136	2.88	39.68	32.40	7.97	34.01

Radiated Emissions above 1GHz_Mode 1



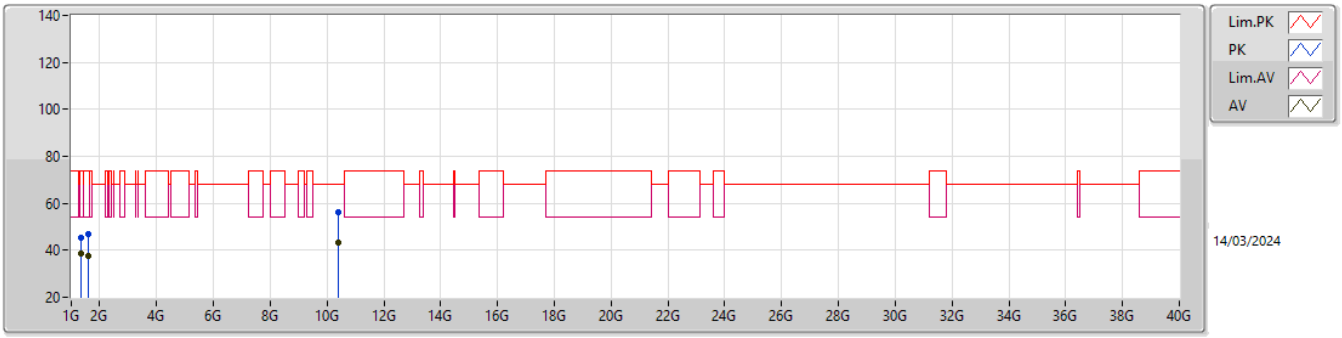
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)	(dBuV/m)	(dB/m)	(dB)	(dB)
AV	1.35998G	38.22	54.00	-15.78	-4.30	3	Horizontal	46	1.59	42.52	25.60	3.93	33.83
AV	1.76G	35.21	54.00	-18.79	-4.39	3	Horizontal	244	1.47	39.60	24.80	4.45	33.64
AV	4.86677G	34.68	54.00	-19.32	6.36	3	Horizontal	125	1.42	28.32	32.40	7.97	34.01
PK	1.36013G	44.09	74.00	-29.91	-4.30	3	Horizontal	46	1.59	48.39	25.60	3.93	33.83
PK	1.76016G	44.67	74.00	-29.33	-4.39	3	Horizontal	244	1.47	49.06	24.80	4.45	33.64
PK	4.87076G	46.96	74.00	-27.04	6.38	3	Horizontal	125	1.42	40.58	32.42	7.97	34.01

Radiated Emissions above 1GHz_Mode 2



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)	(dBuV/m)	(dB/m)	(dB)	(dB)
AV	1.35999G	42.46	54.00	-11.54	-4.30	3	Vertical	69	1.84	46.76	25.60	3.93	33.83
AV	1.59999G	36.17	54.00	-17.83	-4.12	3	Vertical	328	1.00	40.29	25.30	4.21	33.63
AV	10.40445G	43.30	68.20	-24.90	15.37	3	Vertical	346	2.28	27.93	38.49	11.33	34.45
PK	1.36002G	47.10	74.00	-26.90	-4.30	3	Vertical	69	1.84	51.40	25.60	3.93	33.83
PK	1.6001G	46.61	74.00	-27.39	-4.12	3	Vertical	328	1.00	50.73	25.30	4.21	33.63
PK	10.39553G	55.84	68.20	-12.36	15.37	3	Vertical	346	2.28	40.47	38.49	11.33	34.45

Radiated Emissions above 1GHz_Mode 2



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)	(dBuV/m)	(dB/m)	(dB)	(dB)
AV	1.35999G	38.57	54.00	-15.43	-4.30	3	Horizontal	49	1.16	42.87	25.60	3.93	33.83
AV	1.59996G	37.40	54.00	-16.60	-4.12	3	Horizontal	58	1.24	41.52	25.30	4.21	33.63
AV	10.40467G	43.15	68.20	-25.05	15.37	3	Horizontal	303	1.74	27.78	38.49	11.33	34.45
PK	1.35999G	45.25	74.00	-28.75	-4.30	3	Horizontal	49	1.16	49.55	25.60	3.93	33.83
PK	1.60001G	46.74	74.00	-27.26	-4.12	3	Horizontal	58	1.24	50.86	25.30	4.21	33.63
PK	10.40258G	56.06	68.20	-12.14	15.37	3	Horizontal	303	1.74	40.69	38.49	11.33	34.45

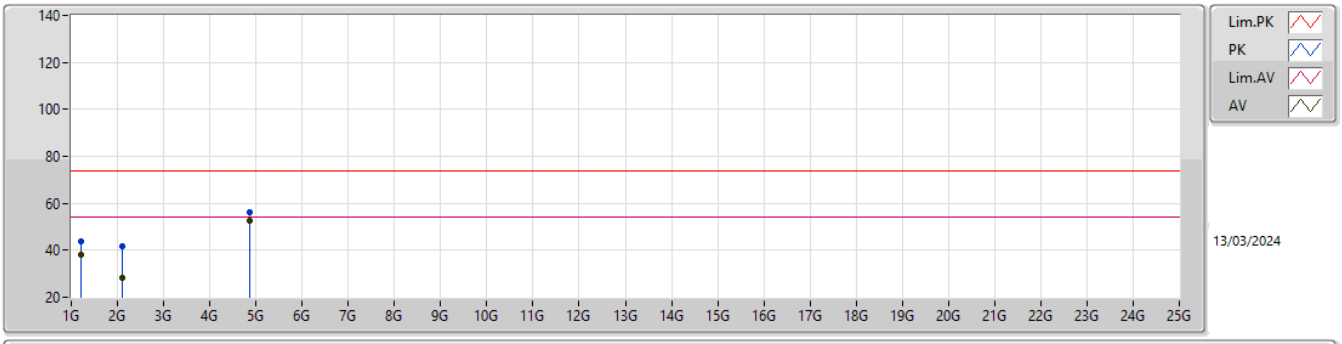
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	4.87395G	52.62	54.00	-1.38	Vertical
Mode 2	Pass	PK	10.40439G	56.28	68.20	-11.92	Horizontal

Result

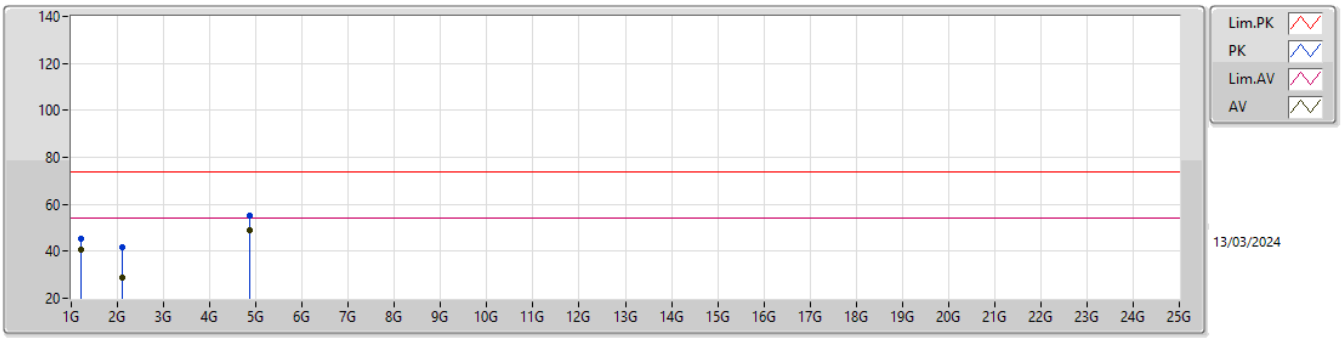
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
Mode 1	Pass	AV	1.2G	38.24	54.00	-15.76	3	Vertical	256	2.97
Mode 1	Pass	AV	2.1085G	28.53	54.00	-25.47	3	Vertical	311	2.31
Mode 1	Pass	AV	4.87395G	52.62	54.00	-1.38	3	Vertical	251	1.02
Mode 1	Pass	PK	1.20002G	43.55	74.00	-30.45	3	Vertical	256	2.97
Mode 1	Pass	PK	2.10908G	41.68	74.00	-32.32	3	Vertical	311	2.31
Mode 1	Pass	PK	4.87413G	56.09	74.00	-17.91	3	Vertical	251	1.02
Mode 1	Pass	AV	1.20001G	40.78	54.00	-13.22	3	Horizontal	232	1.03
Mode 1	Pass	AV	2.10808G	28.58	54.00	-25.42	3	Horizontal	157	1.88
Mode 1	Pass	AV	4.87373G	49.05	54.00	-4.95	3	Horizontal	224	1.18
Mode 1	Pass	PK	1.20013G	45.46	74.00	-28.54	3	Horizontal	232	1.03
Mode 1	Pass	PK	2.1082G	41.64	74.00	-32.36	3	Horizontal	157	1.88
Mode 1	Pass	PK	4.87407G	54.93	74.00	-19.07	3	Horizontal	224	1.18
Mode 2	Pass	AV	1.20004G	36.57	54.00	-17.43	3	Vertical	258	2.97
Mode 2	Pass	AV	4.04196G	32.05	54.00	-21.95	3	Vertical	306	1.97
Mode 2	Pass	AV	10.40377G	42.98	68.20	-25.22	3	Vertical	141	2.00
Mode 2	Pass	PK	1.20005G	42.93	74.00	-31.07	3	Vertical	258	2.97
Mode 2	Pass	PK	4.04116G	44.62	74.00	-29.38	3	Vertical	306	1.97
Mode 2	Pass	PK	10.39715G	55.33	68.20	-12.87	3	Vertical	141	2.00
Mode 2	Pass	AV	1.20001G	38.88	54.00	-15.12	3	Horizontal	231	1.06
Mode 2	Pass	AV	3.89988G	32.59	54.00	-21.41	3	Horizontal	169	1.70
Mode 2	Pass	AV	10.40439G	42.90	68.20	-25.30	3	Horizontal	172	1.10
Mode 2	Pass	PK	1.20005G	44.79	74.00	-29.21	3	Horizontal	231	1.06
Mode 2	Pass	PK	3.90271G	45.13	74.00	-28.87	3	Horizontal	169	1.70
Mode 2	Pass	PK	10.40439G	56.28	68.20	-11.92	3	Horizontal	172	1.10

Radiated Emissions above 1GHz_Mode 1



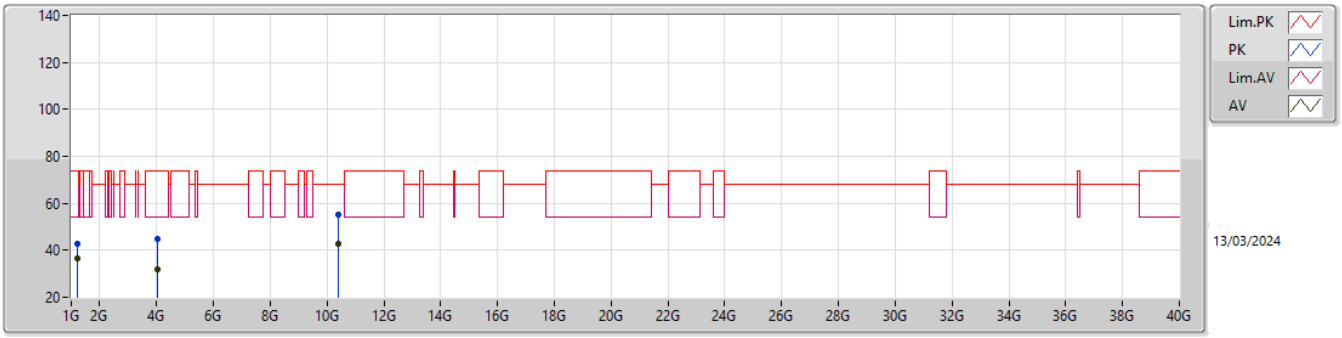
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)	(dBuV/m)	(dB/m)	(dB)	(dB)
AV	1.2G	38.24	54.00	-15.76	-4.45	3	Vertical	256	2.97	42.69	25.90	3.71	34.06
AV	2.1085G	28.53	54.00	-25.47	-1.27	3	Vertical	311	2.31	29.80	27.33	5.05	33.65
AV	4.87395G	52.62	54.00	-1.38	6.40	3	Vertical	251	1.02	46.22	32.44	7.97	34.01
PK	1.20002G	43.55	74.00	-30.45	-4.45	3	Vertical	256	2.97	48.00	25.90	3.71	34.06
PK	2.10908G	41.68	74.00	-32.32	-1.28	3	Vertical	311	2.31	42.96	27.32	5.05	33.65
PK	4.87413G	56.09	74.00	-17.91	6.40	3	Vertical	251	1.02	49.69	32.44	7.97	34.01

Radiated Emissions above 1GHz_Mode 1



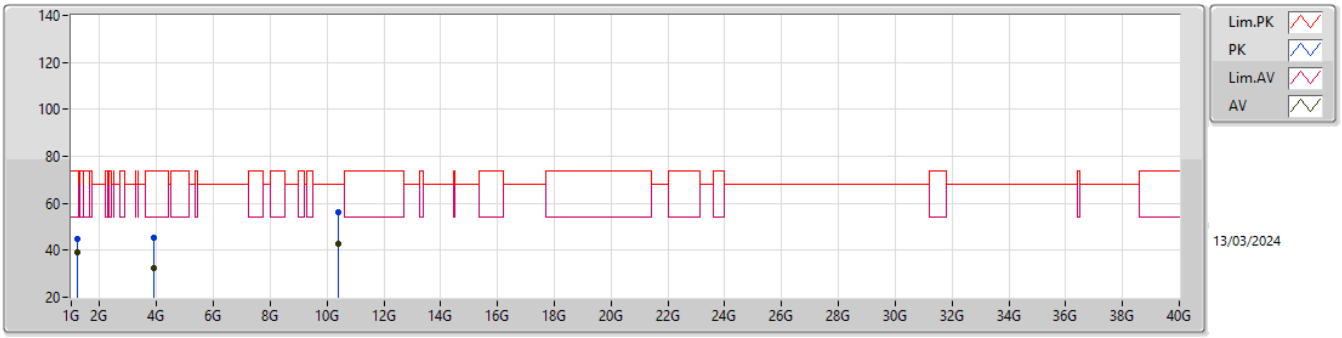
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)	(dBuV/m)	(dB/m)	(dB)	(dB)
AV	1.20001G	40.78	54.00	-13.22	-4.45	3	Horizontal	232	1.03	45.23	25.90	3.71	34.06
AV	2.10808G	28.58	54.00	-25.42	-1.26	3	Horizontal	157	1.88	29.84	27.34	5.05	33.65
AV	4.87373G	49.05	54.00	-4.95	6.40	3	Horizontal	224	1.18	42.65	32.44	7.97	34.01
PK	1.20013G	45.46	74.00	-28.54	-4.45	3	Horizontal	232	1.03	49.91	25.90	3.71	34.06
PK	2.1082G	41.64	74.00	-32.36	-1.26	3	Horizontal	157	1.88	42.90	27.34	5.05	33.65
PK	4.87407G	54.93	74.00	-19.07	6.40	3	Horizontal	224	1.18	48.53	32.44	7.97	34.01

Radiated Emissions above 1GHz_Mode 2



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)	(dBuV/m)	(dB/m)	(dB)	(dB)
AV	1.20004G	36.57	54.00	-17.43	-4.45	3	Vertical	258	2.97	41.02	25.90	3.71	34.06
AV	4.04196G	32.05	54.00	-21.95	3.87	3	Vertical	306	1.97	28.18	30.60	7.27	34.00
AV	10.40377G	42.98	68.20	-25.22	15.37	3	Vertical	141	2.00	27.61	38.49	11.33	34.45
PK	1.20005G	42.93	74.00	-31.07	-4.45	3	Vertical	258	2.97	47.38	25.90	3.71	34.06
PK	4.04116G	44.62	74.00	-29.38	3.87	3	Vertical	306	1.97	40.75	30.60	7.27	34.00
PK	10.39715G	55.33	68.20	-12.87	15.37	3	Vertical	141	2.00	39.96	38.49	11.33	34.45

Radiated Emissions above 1GHz_Mode 2



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)	(dBuV/m)	(dB/m)	(dB)	(dB)
AV	1.20001G	38.88	54.00	-15.12	-4.45	3	Horizontal	231	1.06	43.33	25.90	3.71	34.06
AV	3.89988G	32.59	54.00	-21.41	3.86	3	Horizontal	169	1.70	28.73	30.80	7.08	34.02
AV	10.40439G	42.90	68.20	-25.30	15.37	3	Horizontal	172	1.10	27.53	38.49	11.33	34.45
PK	1.20005G	44.79	74.00	-29.21	-4.45	3	Horizontal	231	1.06	49.24	25.90	3.71	34.06
PK	3.90271G	45.13	74.00	-28.87	3.86	3	Horizontal	169	1.70	41.27	30.79	7.09	34.02
PK	10.40439G	56.28	68.20	-11.92	15.37	3	Horizontal	172	1.10	40.91	38.49	11.33	34.45