

FCC Radio Test Report

FCC ID : 2A8MT-S16POE
Equipment : 16 Port Managed Network Switch with PoE
Brand Name : ALTA LABS [Λ] ALTA LABS
Model Name : S16-POE
Applicant : SoundVision Technologies, dba Alta Labs
192 N Old Hwy 91, Unit 1 Hurricane,Utah,United States 84737
Manufacturer : SoundVision Technologies, dba Alta Labs
192 N Old Hwy 91, Unit 1 Hurricane,Utah,United States 84737
Standard : 47 CFR FCC Part 15.247

The product was received on Jun. 16, 2023, and testing was started from Jun. 16, 2023 and completed on Jul. 14, 2023. We, SPORTON INTERNATIONAL INC. Hsinhua Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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



Approved by: Jackson Tsai

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

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



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PHOTOGRAPHS OF EUT V01



History of this test report

Report No.	Version	Description	Issued Date
FR370701AL	01	Initial issue of report	Aug. 11, 2023



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)	DTS Bandwidth	PASS	-
3.3	15.247(b)	Maximum Conducted Output Power	PASS	-
3.4	15.247(e)	Power Spectral Density	PASS	-
3.5	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
3.6	15.247(d)	Emissions in Restricted Frequency Bands	PASS	-

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and explanations:
None

Reviewed by: Ryan Hsiao
Report Producer: Debby Hung

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	Bluetooth Mode	Ch. Frequency (MHz)	Channel Number
2400-2483.5	LE	2402-2480	0-39 [40]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	BT-LE(1Mbps)	1.0	1TX
2.4-2.4835GHz	BT-LE(2Mbps)	2.0	1TX

Note:
<ul style="list-style-type: none"> ◆ Bluetooth LE uses a GFSK (1Mbps/2Mbps) modulation. ◆ BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	LITEON	3010001449GD	Dipole Antenna	I-PEX-1	2.32

Note 1: The EUT has one antenna.

For Bluetooth function:

For Bluetooth mode (1TX/1RX)

Ant. 1 could transmit/receive.



1.1.3 EUT Information

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

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
BT-LE(1Mbps)	1	0	n/a (DC>=0.98)	n/a (DC>=0.98)
BT-LE(2Mbps)	1	0	n/a (DC>=0.98)	n/a (DC>=0.98)

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

1.1.5 Table for Multiple Listing

Table for Explanation 2nd Source

Object/part or Description (location)	Location	main source (SKU 1)	2nd source (SKU 2)
LAN transformer	T3, T4	Brand: BOTHHAND Model: GH5210RY LF	Brand: FPE Model: LG88509DF
LAN transformer	T1, T2	Brand: BOTHHAND Model: GH5610RSM LF	Brand: FPE Model: LY88514DF

From the above SKU, all of SKUs were verified and Main source (SKU 1) was selected as representative SKU 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				
<input checked="" type="checkbox"/>	Hsinhua (TAF: 3785)	ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)		
		TEL: 886-3-327-3456	FAX: 886-3-327-0973	
Test site Designation No. TW3785 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Wayne Chiu	23.2~23.8°C / 52~54%	11/Jul/2023
RF Conducted	TH01-HY	Peng Huang	22.6~23.2°C / 51~56%	10/Jul/2023~14/Jul/2023
<input checked="" type="checkbox"/>	Wen 33rd.St. (TAF: 3785)	ADD: No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)		
		TEL: 886-3-318-0787	FAX: 886-3-318-0287	
Test site Designation No. TW0008 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
Radiated	03CH09-HY	Simon Cheng	22.1~23.4°C / 51~53%	16/Jun/2023~13/Jul/2023

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
AC Power-line Conducted Emissions	4.53 dB	Confidence levels of 95%
Bandwidth	3 MHz	Confidence levels of 95%
Maximum Conducted Output Power	2 dB	Confidence levels of 95%
Power Spectral Density	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	Putty Release 0.62
-----------------------	--------------------

Mode	Power Setting
BT-LE(1Mbps)	-
2402MHz	4
2440MHz	4
2480MHz	4
BT-LE(2Mbps)	-
2402MHz	4
2440MHz	4
2480MHz	4

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	Switching Power supply mode

The Worst Case Mode for Following Conformance Tests	
Tests Item	DTS Bandwidth Maximum Conducted Output Power Power Spectral Density Emissions in Non-restricted Frequency Bands
Test Condition	Conducted measurement at transmit chains

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	Switching Power supply mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT			V



2.3 Accessories

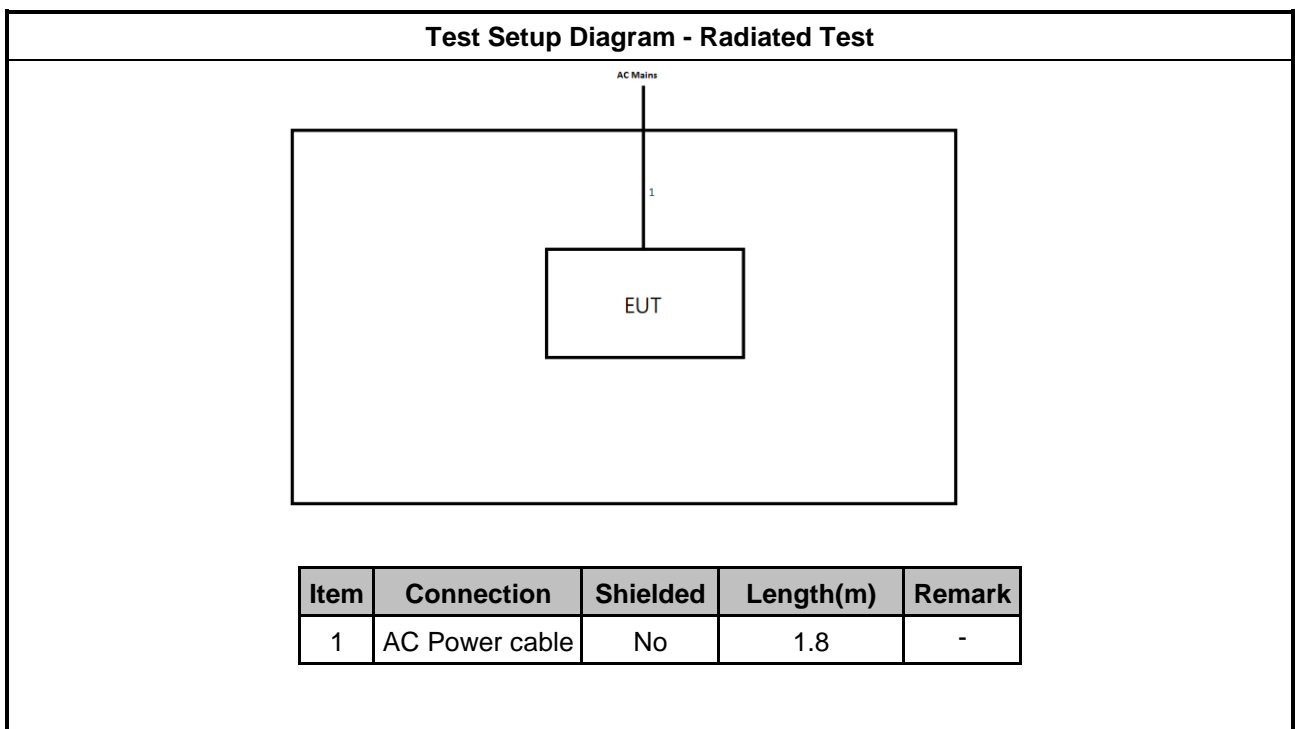
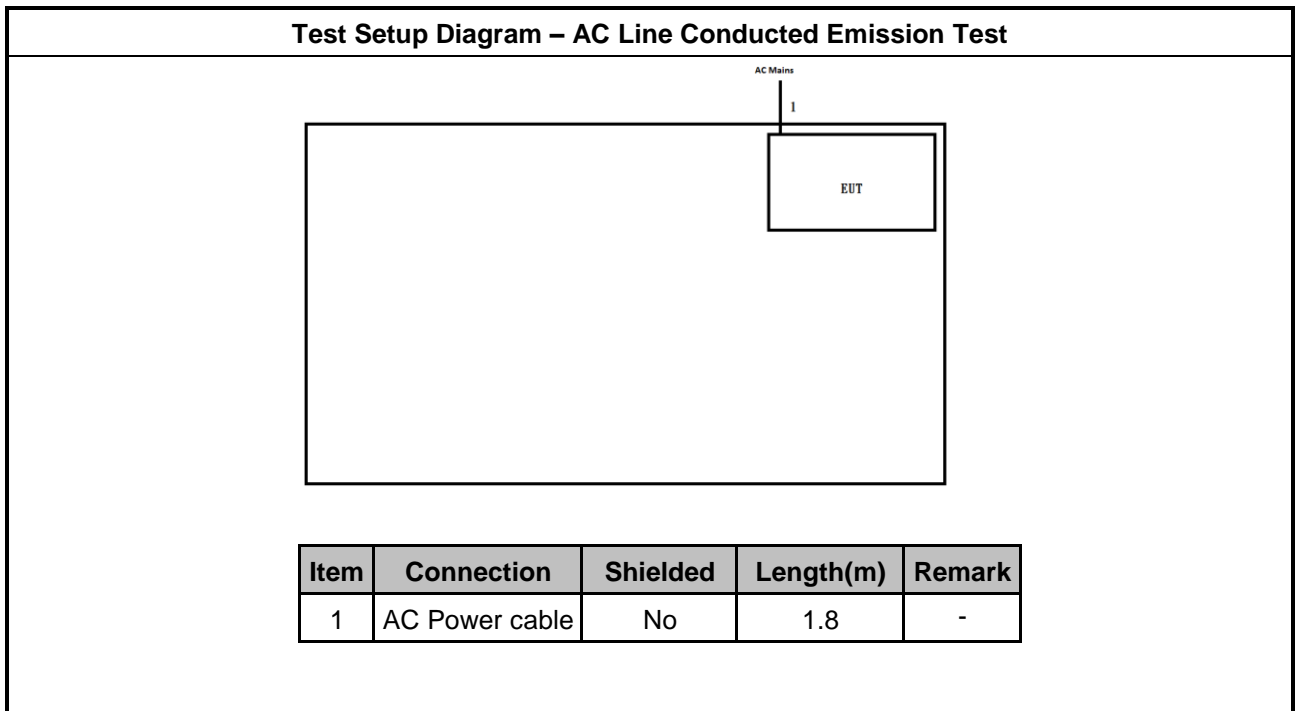
Accessories				
AC Power Cord	Brand Name	1.8 meter, non-shielded cable, w/o ferrite core		
Ear Bracket Kit	Brand Name	NA	Model Name	NA

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	-	-

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

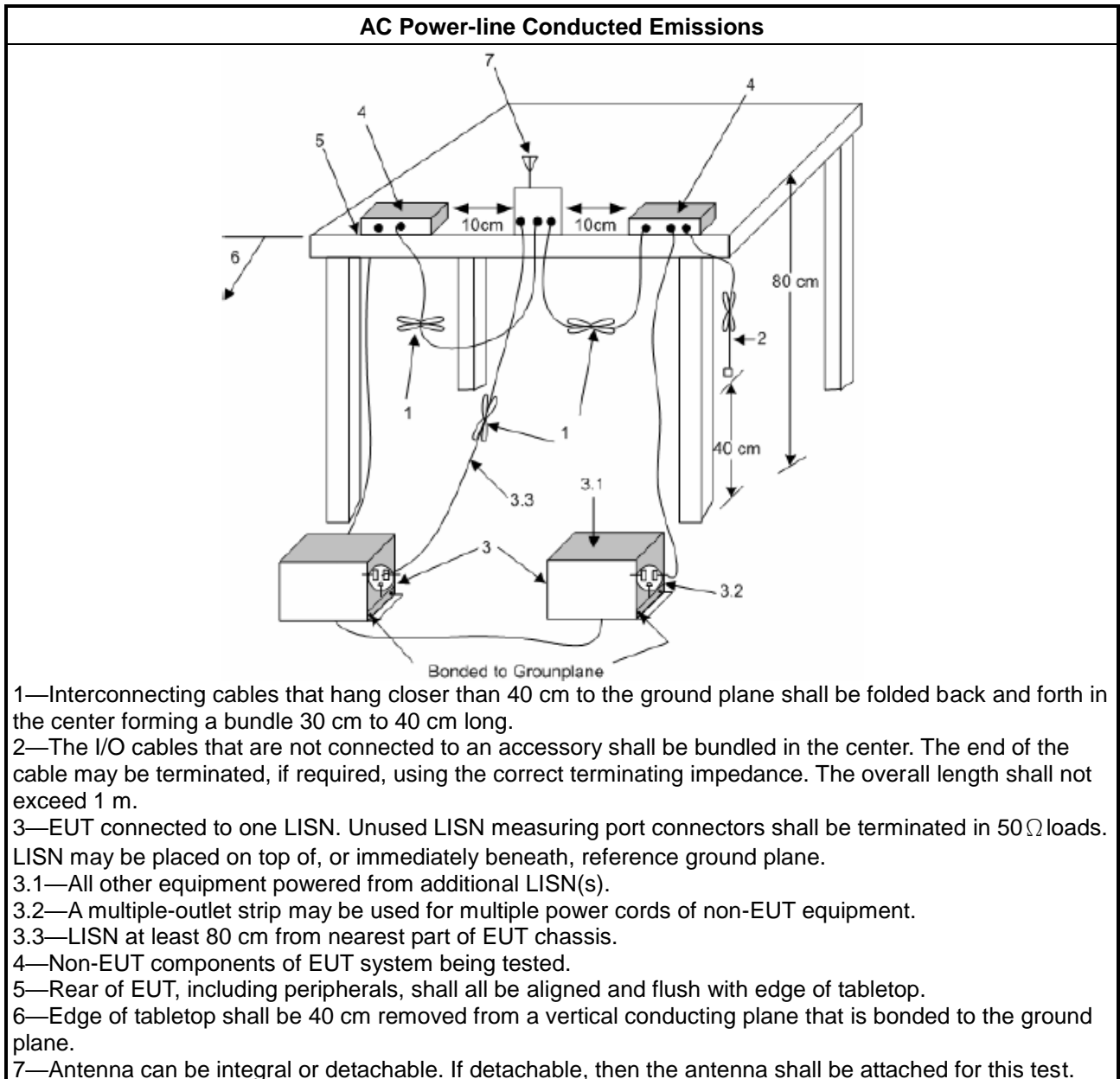
Test Method
<ul style="list-style-type: none"> Refer as ANSI C63.10-2013, clause 6.2 foray power-line conducted emissions.

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 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

6dB Bandwidth Limit
Systems using digital modulation techniques:
<ul style="list-style-type: none"> ▪ 6 dB bandwidth \geq 500 kHz.

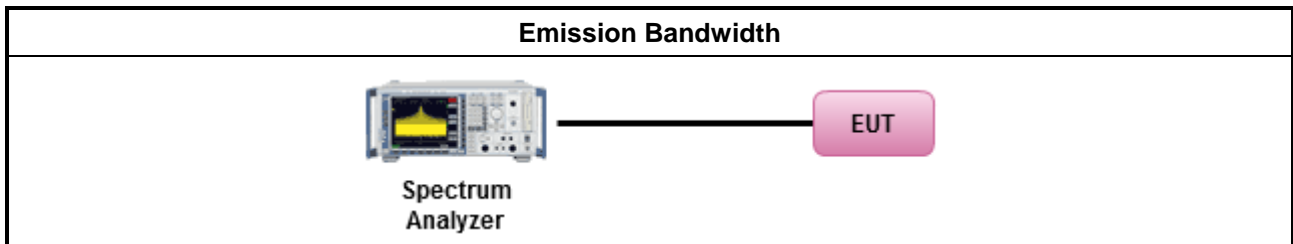
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method
<ul style="list-style-type: none"> ▪ For the emission bandwidth shall be measured using one of the options below:
<input checked="" type="checkbox"/> Refer as KDB 558074, clause 8.2 (11.8 of ANSI C63.10) DTS bandwidth measurement.
<input type="checkbox"/> Refer as RSS-Gen, clause 6.7 for occupied bandwidth testing.
<input type="checkbox"/> Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
	<ul style="list-style-type: none"> ▪ If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)
	<ul style="list-style-type: none"> ▪ Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm
	<ul style="list-style-type: none"> ▪ Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	<ul style="list-style-type: none"> ▪ Smart antenna system (SAS):
	<ul style="list-style-type: none"> - Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	<ul style="list-style-type: none"> - Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	<ul style="list-style-type: none"> - Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dB dBm
e.i.r.p. Power Limit:	
	<ul style="list-style-type: none"> ▪ 2400-2483.5 MHz Band
	<ul style="list-style-type: none"> ▪ Point-to-multipoint systems (P2M): $P_{eirp} \leq 36$ dBm (4 W)
	<ul style="list-style-type: none"> ▪ Point-to-point systems (P2P): $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX}])$ dBm
	<ul style="list-style-type: none"> ▪ Smart antenna system (SAS)
	<ul style="list-style-type: none"> - Single beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	<ul style="list-style-type: none"> - Overlap beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	<ul style="list-style-type: none"> - Aggregate power on all beams: $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX} + 8])$ dBm
P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

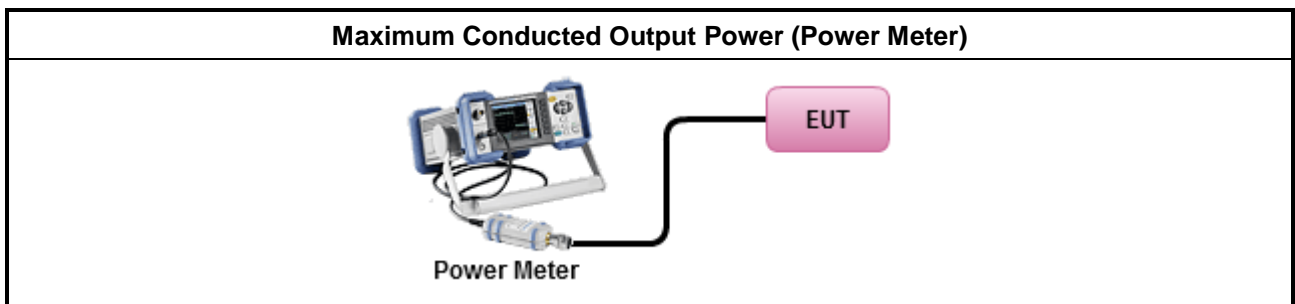
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ Maximum Peak Conducted Output Power 	
<input type="checkbox"/>	Refer as KDB 558074, clause 8.3.1.1 (11.9.1.1 of ANSI C63.10) RBW ≥ EBW method.
<input type="checkbox"/>	Refer as KDB 558074, clause 8.3.1.2 (11.9.1.2 of ANSI C63.10) integrated band power method.
<input type="checkbox"/>	Refer as KDB 558074, clause 8.3.1.3 (11.9.1.3 of ANSI C63.10) peak power meter.
<ul style="list-style-type: none"> ▪ Maximum Average Conducted Output Power 	
<input type="checkbox"/>	Refer as KDB 558074, clause 8.3.2.2 (11.9.2.2 of ANSI C63.10) using a spectrum analyzer.
<input checked="" type="checkbox"/>	Refer as KDB 558074, clause 8.3.2.3 (11.9.2.3 of ANSI C63.10) using a power meter.
<ul style="list-style-type: none"> ▪ For conducted measurement. 	
<ul style="list-style-type: none"> ▪ If the EUT supports multiple transmit chains using options given below: Refer as KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them. 	
<ul style="list-style-type: none"> ▪ If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$ 	

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

Power Spectral Density Limit
<ul style="list-style-type: none"> Power Spectral Density (PSD) ≤ 8 dBm/3kHz

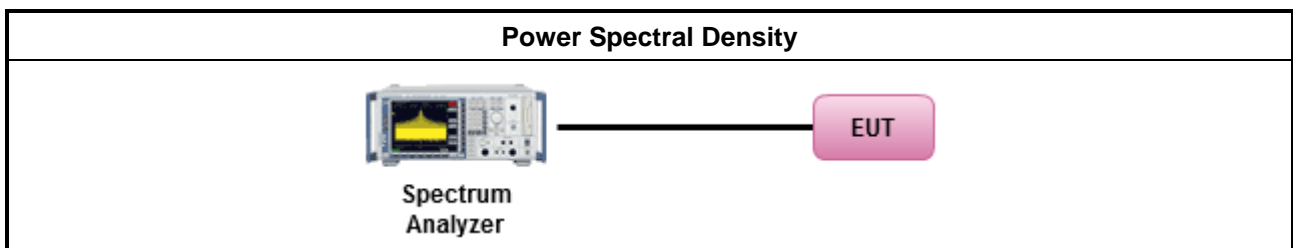
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method
<ul style="list-style-type: none"> Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).
<input checked="" type="checkbox"/> Refer as KDB 558074, clause 8.4 (11.10 of ANSI C63.10) Max. PSD.
<ul style="list-style-type: none"> For conducted measurement. <ul style="list-style-type: none"> If The EUT supports multiple transmit chains using options given below: <ul style="list-style-type: none"> Measure and sum the spectra across the outputs. Refer as KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	Limit (dB)
Peak output power procedure	20
Average output power procedure	30

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 level.

Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average level.

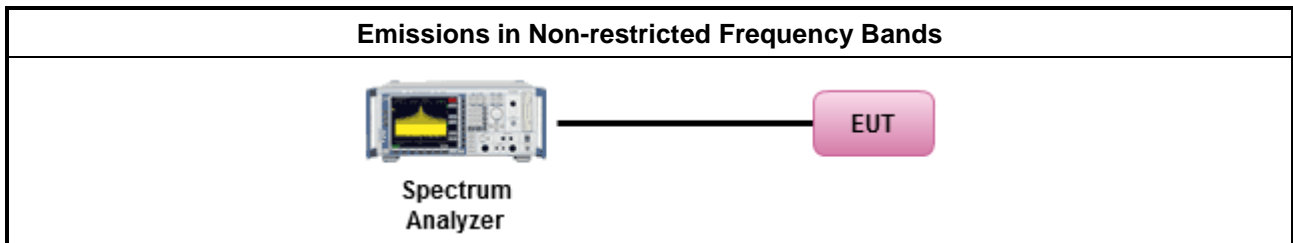
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method
<ul style="list-style-type: none"> Refer as KDB 558074, clause 8.5 (11.11 of ANSI C63.10) for non-restricted frequency bands.

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 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.

3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

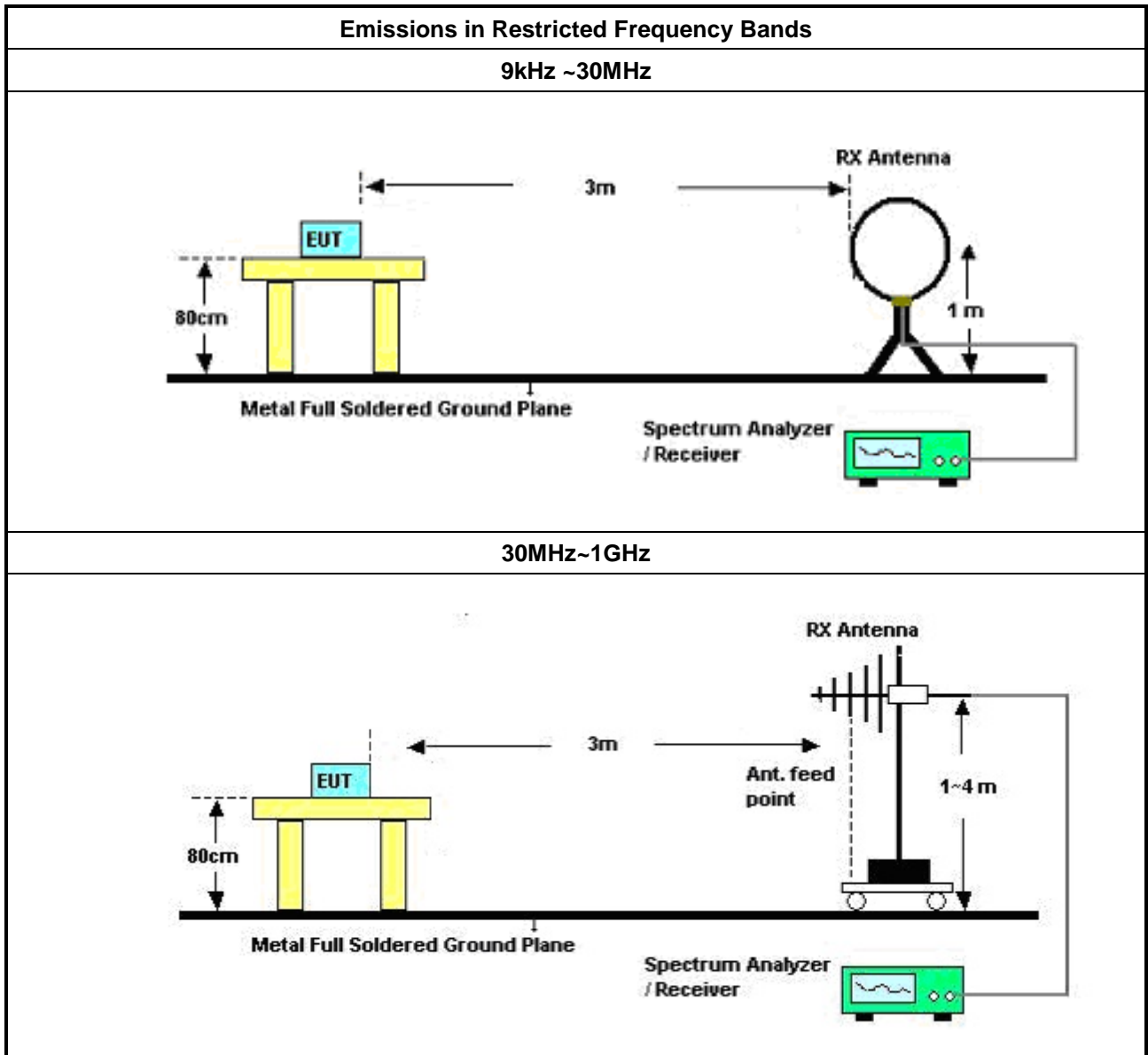
Test Method	
	<ul style="list-style-type: none"> ▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].
	<ul style="list-style-type: none"> ▪ Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.
	<ul style="list-style-type: none"> ▪ For the transmitter unwanted emissions shall be measured using following options below:
	<ul style="list-style-type: none"> ▪ Refer as KDB 558074, clause 8.6 (11.12 of ANSI C63.10) for restricted frequency bands.
	<ul style="list-style-type: none"> ▪ For the transmitter band-edge emissions shall be measured using following options below:
	<ul style="list-style-type: none"> ▪ Refer as KDB 558074 clause 8.7.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.
	<ul style="list-style-type: none"> ▪ Refer as KDB 558074, clause 8.7.2 (6.10.6 of ANSI C63.10) for marker-delta method for band-edge measurements.
	<ul style="list-style-type: none"> ▪ Refer as KDB 558074, clause 8.7.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels.
	<ul style="list-style-type: none"> ▪ Use the following spectrum analyzer settings:
	<ul style="list-style-type: none"> ▪ Set RBW=100 kHz for f < 1 GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.
	<ul style="list-style-type: none"> ▪ Set RBW = 1 MHz, VBW= 3MHz for f ≥ 1 GHz for peak measurement. For average measurement, refer as 1.1.4.
	<ul style="list-style-type: none"> ▪ KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.
	<ul style="list-style-type: none"> ▪ Based on FCC 15.31(f)(2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
	<ul style="list-style-type: none"> ▪ Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

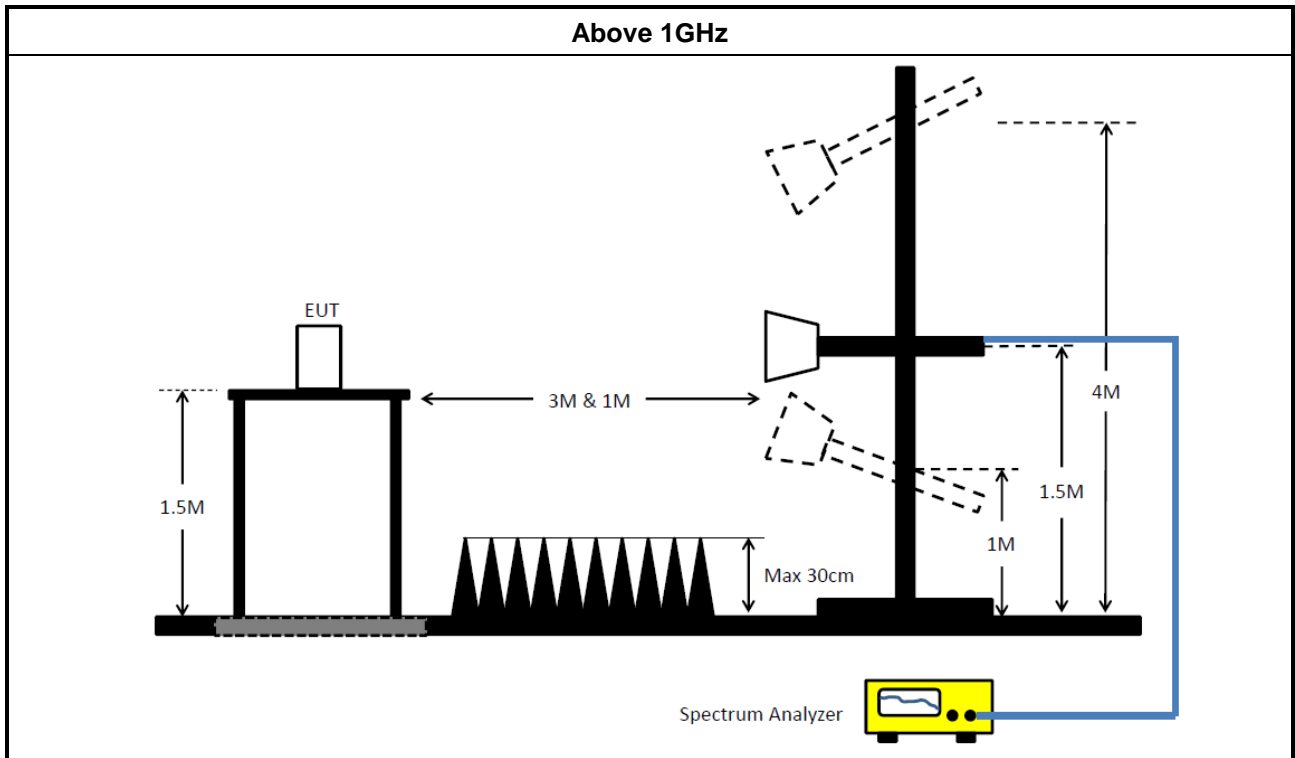
3.6.4 Measurement Results Calculation

The measured Level is calculated using:

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

3.6.5 Test Setup





3.6.6 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.

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F



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	100003	9kHz ~ 30MHz	16/Feb/2023	15/Feb/2024
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	28/Feb/2023	27/Feb/2024
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	25/Oct/2022	24/Oct/2023
Software	Sporton	SENSE-EMI	V5.10.8.7	-	NCR	NCR

NCR: No Calibration Required

Instrument for Conducted Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101013	10Hz~40GHz	10/Apr/2023	09/Apr/2024
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	21/Oct/2022	20/Oct/2023
Pulse Sensor	Anritsu	MA2411B	0917017	300MHz~40GHz	15/Feb/2023	14/Feb/2024
Power Meter	Anritsu	ML2495A	0949003	300MHz~40GHz	15/Feb/2023	14/Feb/2024
SENSE-15247_FS	Sporton	V5.11.2	N/A	N/A	N/A	N/A



Instrument for Radiated Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Site V.S.W.R	TDK	SAC-3M	03CH09-HY	1GHz~18GHz 3m	14/Mar/2023	13/Mar/2024
N.S.A. Measurement	TDK	SAC-3M	03CH09-HY	30 MHz ~ 1 GHz 3m	15/Mar/2023	14/Mar/2024
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200885	10Hz~44GHz	11/Aug/2022	10/Aug/2023
Microwave Preamplifier	Agilent	8449B	3008A02096	1GHz~26.5GHz	22/Jul/2022	21/Jul/2023
Preamplifier	EMCI	EMC9135	980232	9kHz~1GHz	07/Apr/2023	06/Apr/2024
Bilog Antenna & 5dB Attenuator	TESEQ & MTJ	CBL6111D&MT J6102-05	35418 & 3	30MHz~1GHz	28/Aug/2022	27/Aug/2023
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1531	1GHz~18GHz	30/Dec/2022	29/Dec/2023
RF Cable-low	HUBER+SUHNE R	SUCOFLEX104	03CH09-cable-01	9kHz~1GHz	21/Feb/2023	20/Feb/2024
RF CABLE 5m+3m+1m	HUBER+SUHNE R	SUCOFLEX104	03CH09-cable-02	1GHz~40GHz	21/Feb/2023	20/Feb/2024
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	18GHz~40GHz	25/Mar/2023	24/Mar/2024
Microwave Premplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~ 40GHz	16/Mar/2023	15/Mar/2024
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	23/Mar/2023	22/Mar/2024
EMI Test Receiver	R&S	ESR3	102052	9kHz~3.6GHz	26/May/2023	25/May/2024
SENSE-15247_FS	Sporton	Sporton	V5.10.8.9	NA	NA	NA



Summary

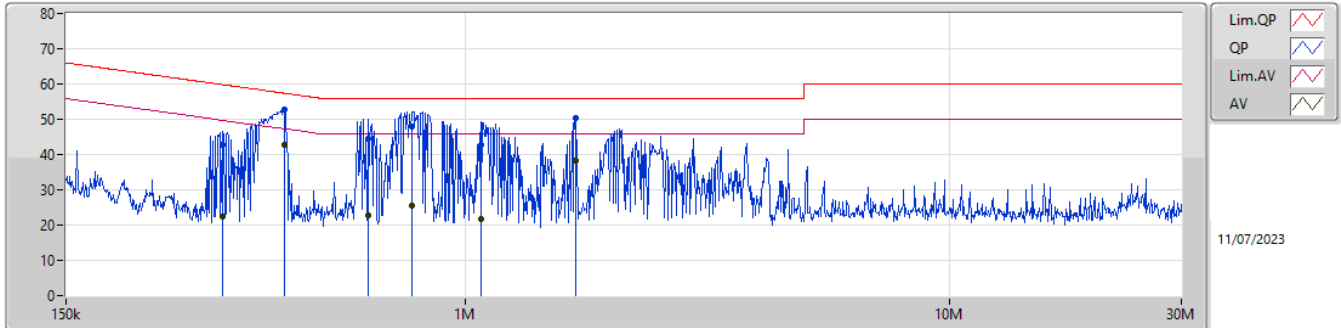
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	421.816k	43.31	47.41	-4.10	Neutral



Result

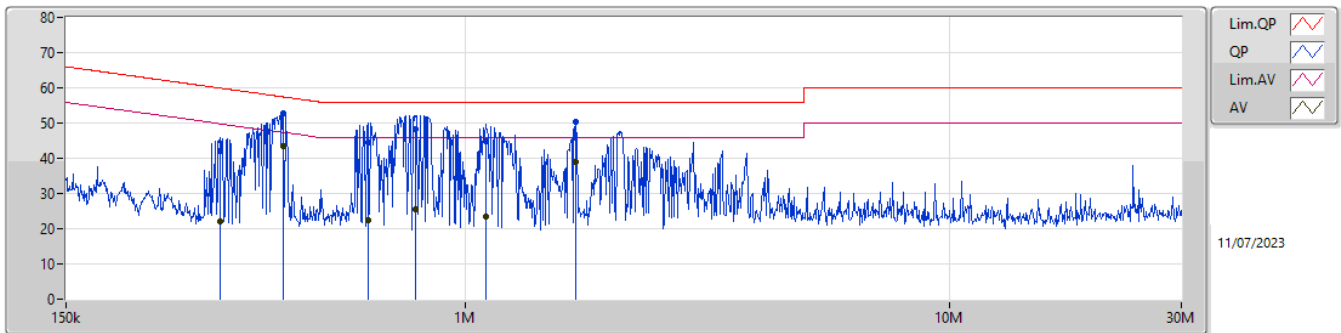
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	315.182k	42.89	59.82	-16.93	Line	-
Mode 1	Pass	AV	315.182k	22.40	49.82	-27.42	Line	-
Mode 1	Pass	QP	423.503k	52.72	57.38	-4.66	Line	-
Mode 1	Pass	AV	423.503k	42.62	47.38	-4.76	Line	-
Mode 1	Pass	QP	628.773k	44.60	56.00	-11.40	Line	-
Mode 1	Pass	AV	628.773k	22.60	46.00	-23.40	Line	-
Mode 1	Pass	QP	776.928k	47.80	56.00	-8.20	Line	-
Mode 1	Pass	AV	776.928k	25.42	46.00	-20.58	Line	-
Mode 1	Pass	QP	1.078M	42.88	56.00	-13.12	Line	-
Mode 1	Pass	AV	1.078M	21.71	46.00	-24.29	Line	-
Mode 1	Pass	QP	1.692M	50.23	56.00	-5.77	Line	-
Mode 1	Pass	AV	1.692M	38.25	46.00	-7.75	Line	-
Mode 1	Pass	QP	311.43k	42.20	59.94	-17.74	Neutral	-
Mode 1	Pass	AV	311.43k	21.98	49.94	-27.96	Neutral	-
Mode 1	Pass	QP	421.816k	52.73	57.41	-4.68	Neutral	-
Mode 1	Pass	AV	421.816k	43.31	47.41	-4.10	Neutral	-
Mode 1	Pass	QP	628.773k	44.48	56.00	-11.52	Neutral	-
Mode 1	Pass	AV	628.773k	22.41	46.00	-23.59	Neutral	-
Mode 1	Pass	QP	789.434k	48.14	56.00	-7.86	Neutral	-
Mode 1	Pass	AV	789.434k	25.68	46.00	-20.32	Neutral	-
Mode 1	Pass	QP	1.1M	44.89	56.00	-11.11	Neutral	-
Mode 1	Pass	AV	1.1M	23.50	46.00	-22.50	Neutral	-
Mode 1	Pass	QP	1.692M	50.49	56.00	-5.51	Neutral	-
Mode 1	Pass	AV	1.692M	38.95	46.00	-7.05	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	315.182k	42.89	59.82	-16.93	19.63	Line	-	23.26	9.64	0.04	9.95
AV	315.182k	22.40	49.82	-27.42	19.63	Line	-	2.77	9.64	0.04	9.95
QP	423.503k	52.72	57.38	-4.66	19.64	Line	-	33.08	9.64	0.04	9.96
AV	423.503k	42.62	47.38	-4.76	19.64	Line	-	22.98	9.64	0.04	9.96
QP	628.773k	44.60	56.00	-11.40	19.63	Line	-	24.97	9.64	0.04	9.95
AV	628.773k	22.60	46.00	-23.40	19.63	Line	-	2.97	9.64	0.04	9.95
QP	776.928k	47.80	56.00	-8.20	19.65	Line	-	28.15	9.65	0.05	9.95
AV	776.928k	25.42	46.00	-20.58	19.65	Line	-	5.77	9.65	0.05	9.95
QP	1.078M	42.88	56.00	-13.12	19.64	Line	-	23.24	9.65	0.05	9.94
AV	1.078M	21.71	46.00	-24.29	19.64	Line	-	2.07	9.65	0.05	9.94
QP	1.692M	50.23	56.00	-5.77	19.68	Line	-	30.55	9.67	0.07	9.94
AV	1.692M	38.25	46.00	-7.75	19.68	Line	-	18.57	9.67	0.07	9.94

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	311.43k	42.20	59.94	-17.74	19.62	Neutral	-	22.58	9.63	0.04	9.95
AV	311.43k	21.98	49.94	-27.96	19.62	Neutral	-	2.36	9.63	0.04	9.95
QP	421.816k	52.73	57.41	-4.68	19.63	Neutral	-	33.10	9.63	0.04	9.96
AV	421.816k	43.31	47.41	-4.10	19.63	Neutral	-	23.68	9.63	0.04	9.96
QP	628.773k	44.48	56.00	-11.52	19.63	Neutral	-	24.85	9.64	0.04	9.95
AV	628.773k	22.41	46.00	-23.59	19.63	Neutral	-	2.78	9.64	0.04	9.95
QP	789.434k	48.14	56.00	-7.86	19.64	Neutral	-	28.50	9.64	0.05	9.95
AV	789.434k	25.68	46.00	-20.32	19.64	Neutral	-	6.04	9.64	0.05	9.95
QP	1.11M	44.89	56.00	-11.11	19.64	Neutral	-	25.25	9.65	0.05	9.94
AV	1.11M	23.50	46.00	-22.50	19.64	Neutral	-	3.86	9.65	0.05	9.94
QP	1.692M	50.49	56.00	-5.51	19.67	Neutral	-	30.82	9.66	0.07	9.94
AV	1.692M	38.95	46.00	-7.05	19.67	Neutral	-	19.28	9.66	0.07	9.94



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
BT-LE(1Mbps)	741.25k	1.072M	1M07F1D	715k	1.067M
BT-LE(2Mbps)	1.285M	2.106M	2M11F1D	1.258M	2.089M

Max-N dB = Maximum 6dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth



Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	500k	718.75k	1.067M
2440MHz	Pass	500k	715k	1.072M
2480MHz	Pass	500k	741.25k	1.069M
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	500k	1.27M	2.106M
2440MHz	Pass	500k	1.285M	2.089M
2480MHz	Pass	500k	1.258M	2.106M

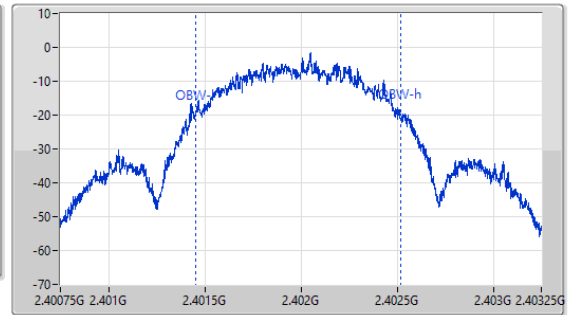
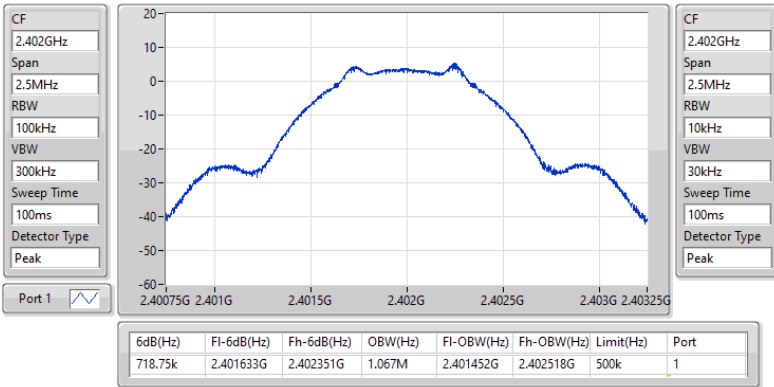
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_BT-LE(1Mbps)

EBW-DTS

2402MHz

10/07/2023

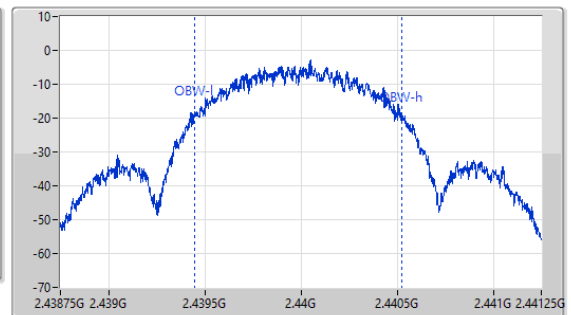
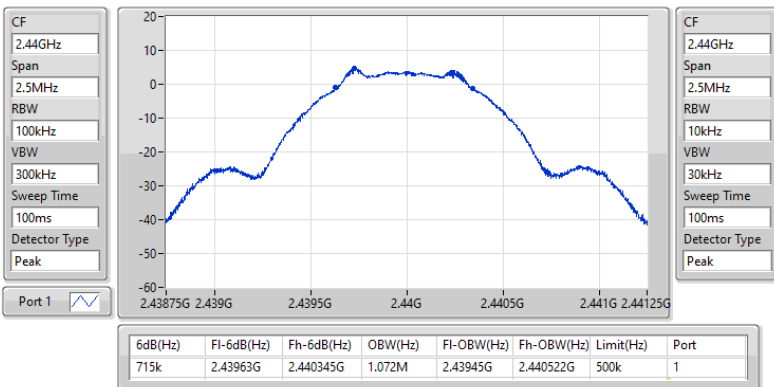


2.4-2.4835GHz_BT-LE(1Mbps)

EBW-DTS

2440MHz

10/07/2023

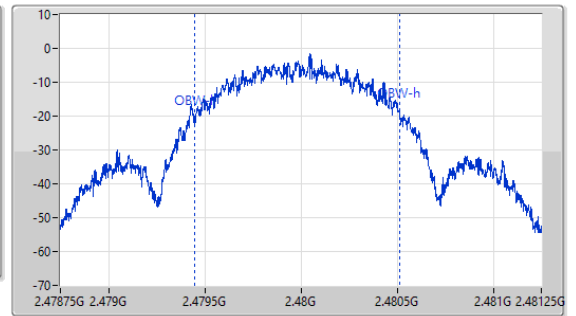
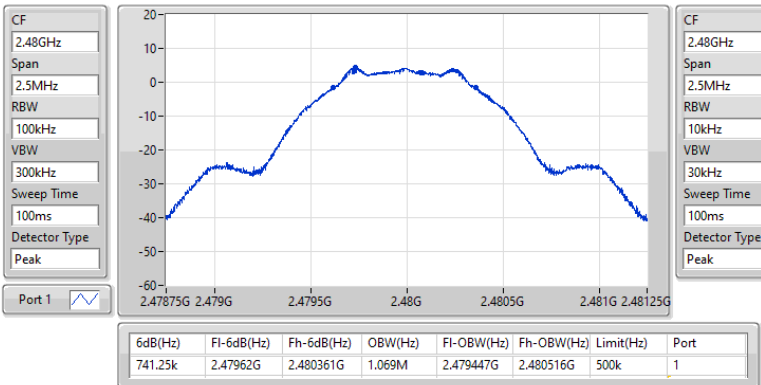


2.4-2.4835GHz_BT-LE(1Mbps)

EBW-DTS

2480MHz

10/07/2023

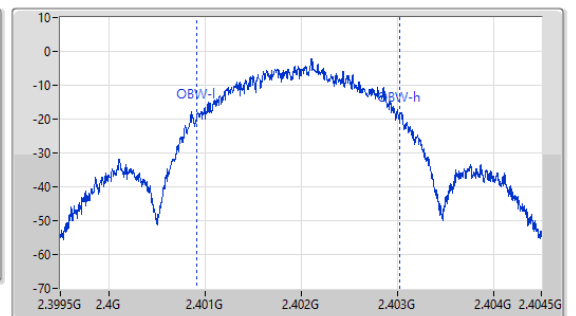
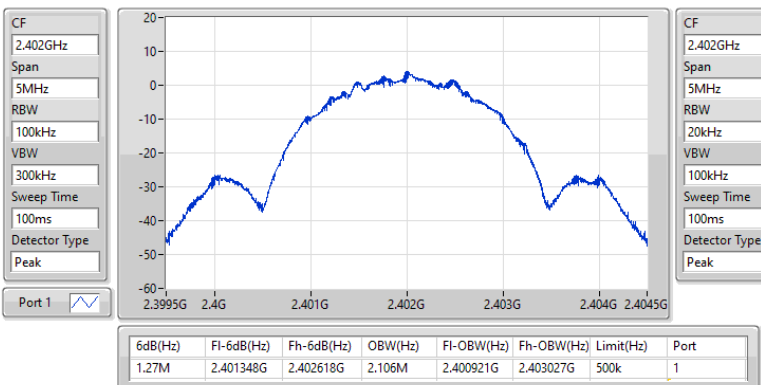


2.4-2.4835GHz_BT-LE(2Mbps)

EBW-DTS

2402MHz

10/07/2023

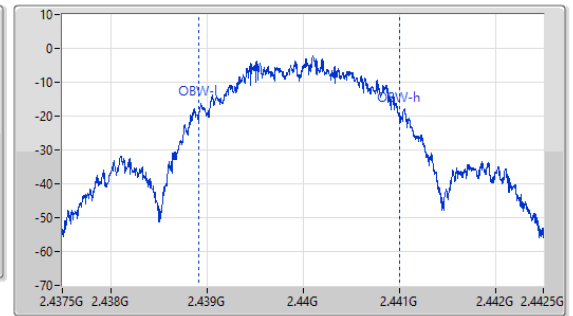
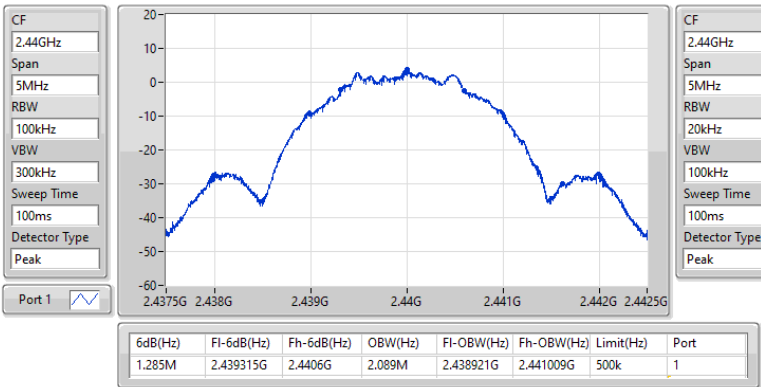


2.4-2.4835GHz_BT-LE(2Mbps)

EBW-DTS

2440MHz

10/07/2023

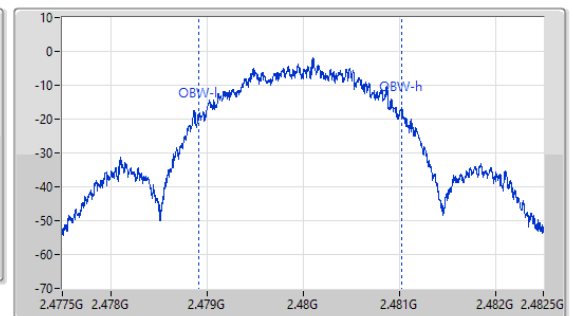
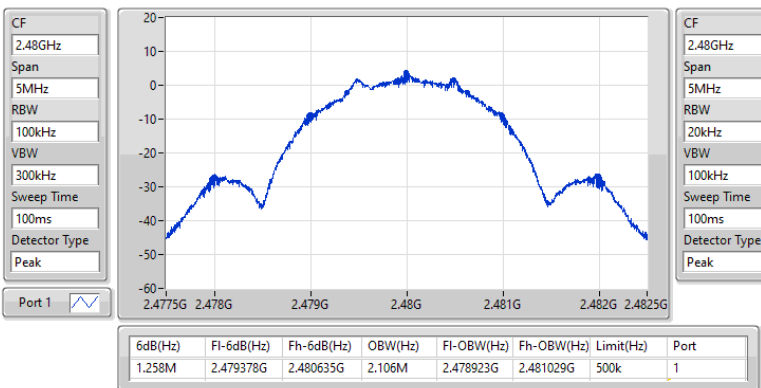


2.4-2.4835GHz_BT-LE(2Mbps)

EBW-DTS

2480MHz

10/07/2023





Summary

Mode	Total Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	5.07	0.00321
BT-LE(2Mbps)	5.04	0.00319



Result

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	2.32	5.01	30.00
2440MHz	Pass	2.32	5.05	30.00
2480MHz	Pass	2.32	5.07	30.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	2.32	4.98	30.00
2440MHz	Pass	2.32	5.03	30.00
2480MHz	Pass	2.32	5.04	30.00

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



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
BT-LE(1Mbps)	-8.20
BT-LE(2Mbps)	-9.56

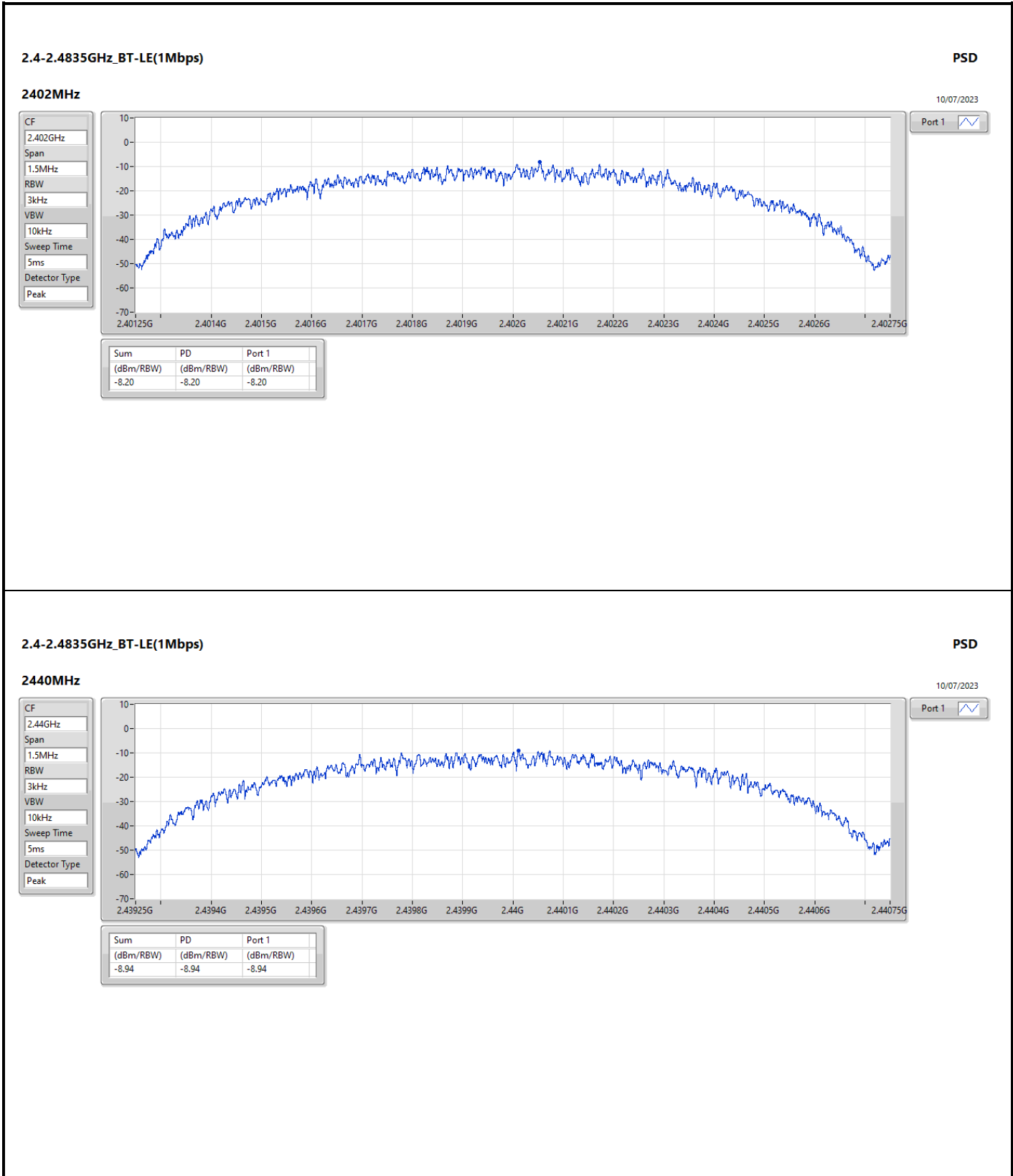
RBW = 3kHz;

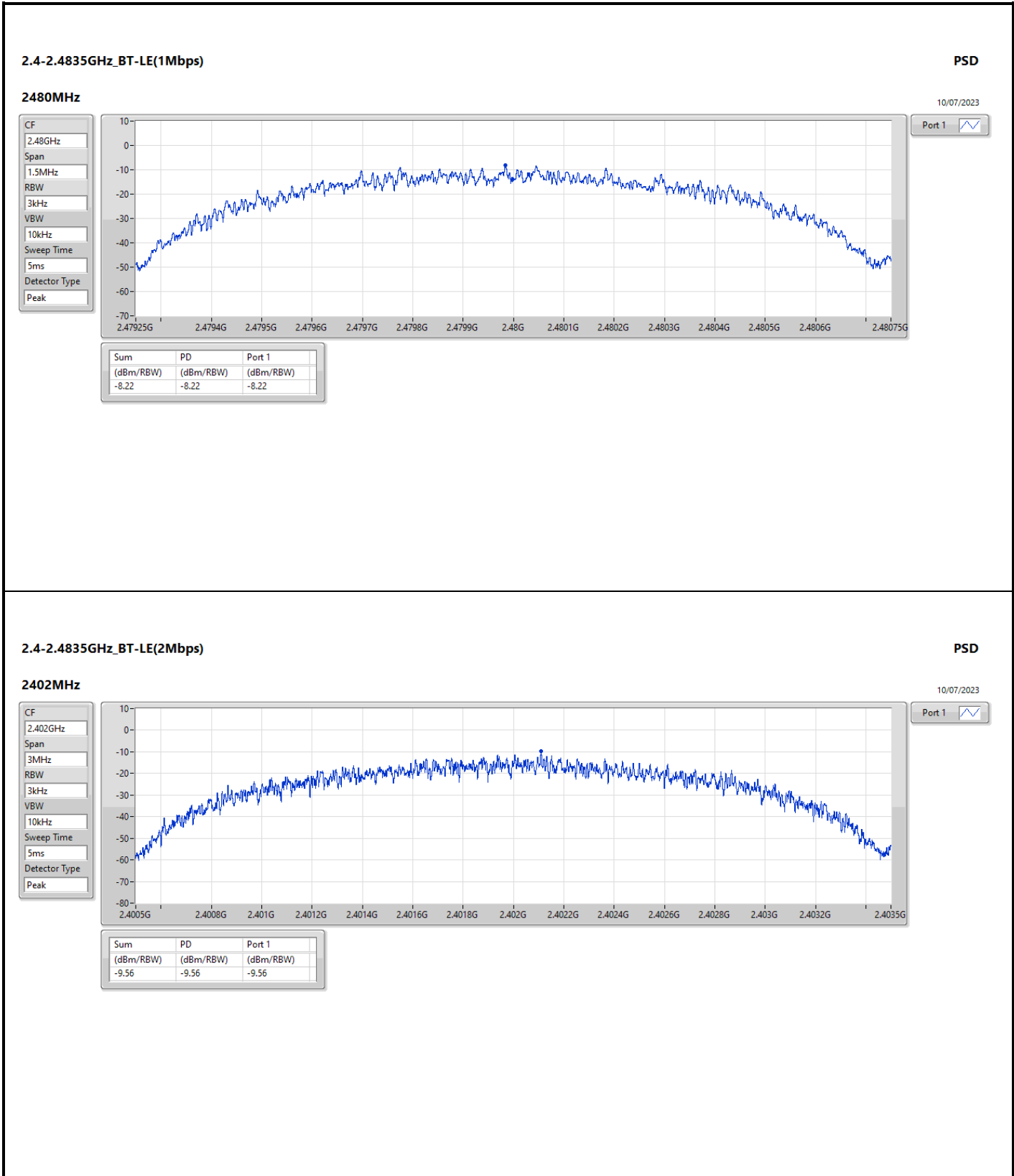


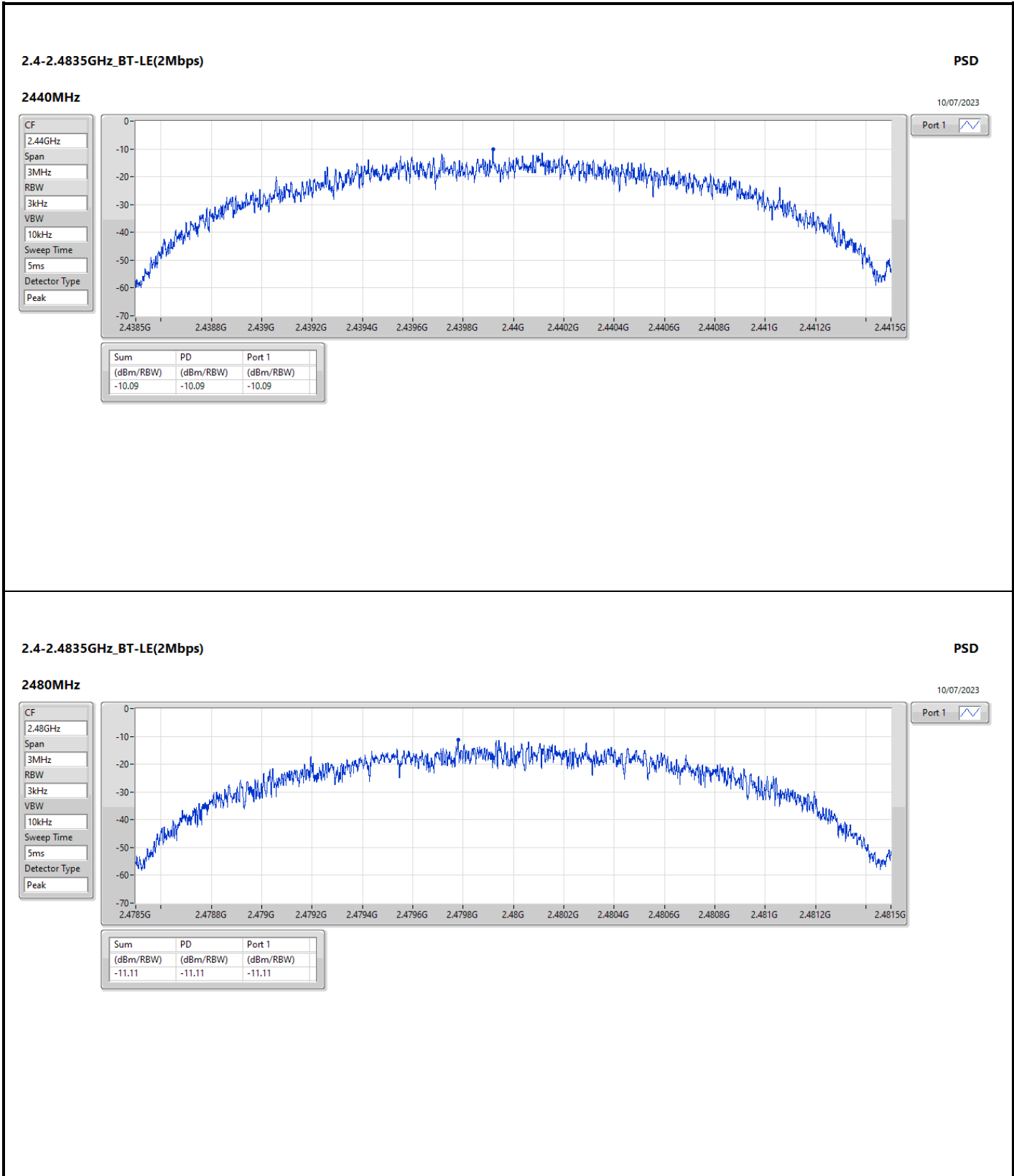
Result

Mode	Result	DG (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	2.32	-8.20	8.00
2440MHz	Pass	2.32	-8.94	8.00
2480MHz	Pass	2.32	-8.22	8.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	2.32	-9.56	8.00
2440MHz	Pass	2.32	-10.09	8.00
2480MHz	Pass	2.32	-11.11	8.00

DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;









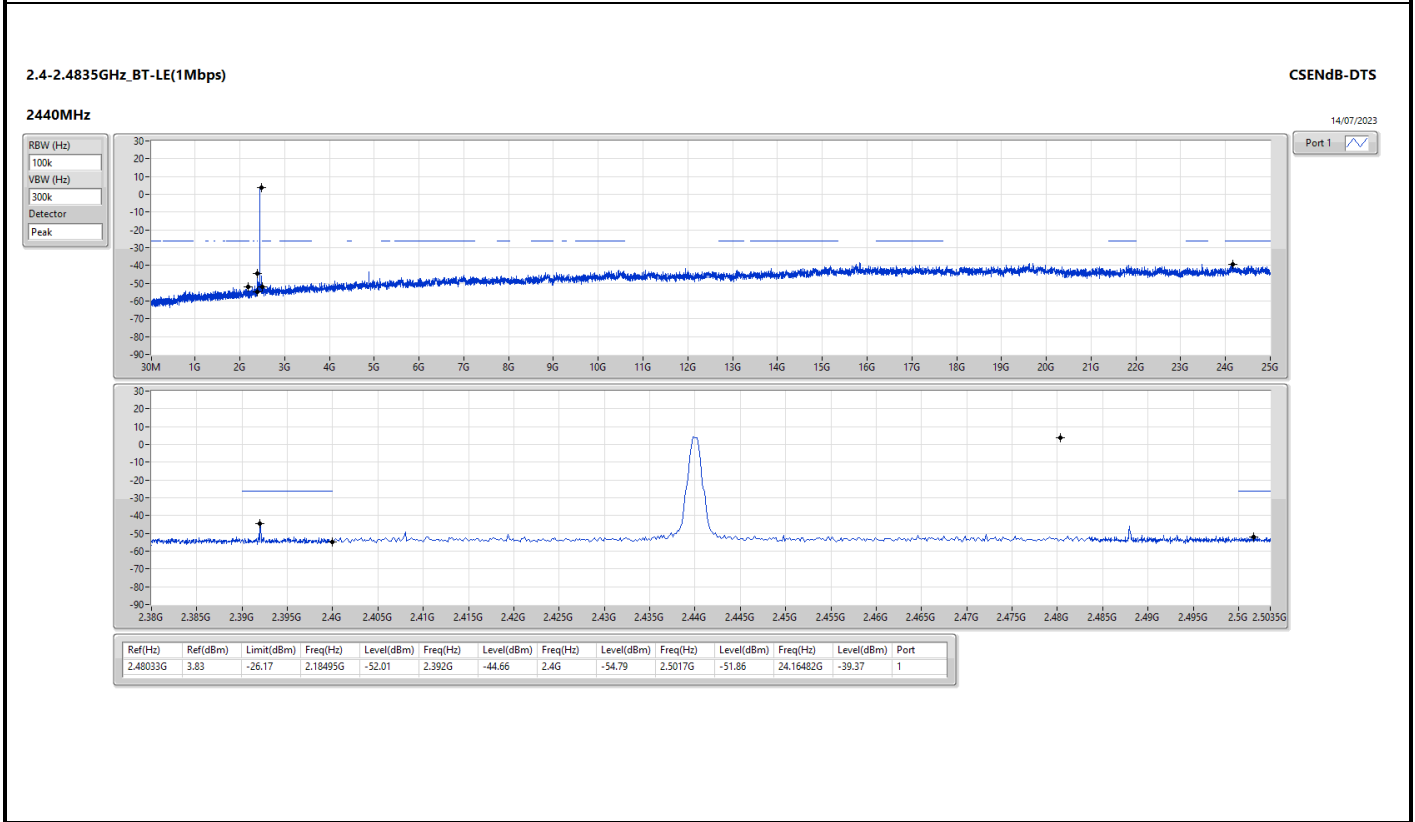
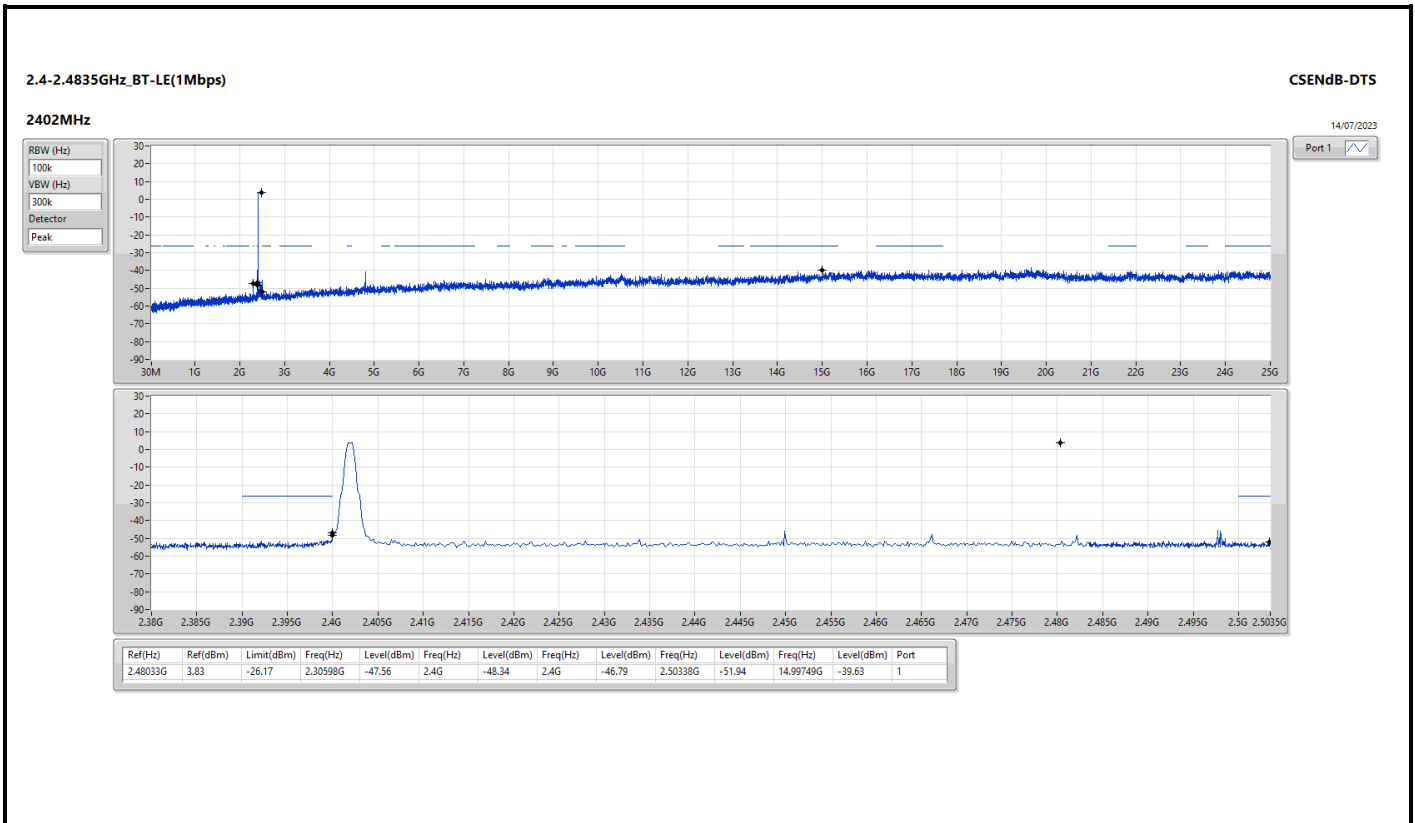
Summary

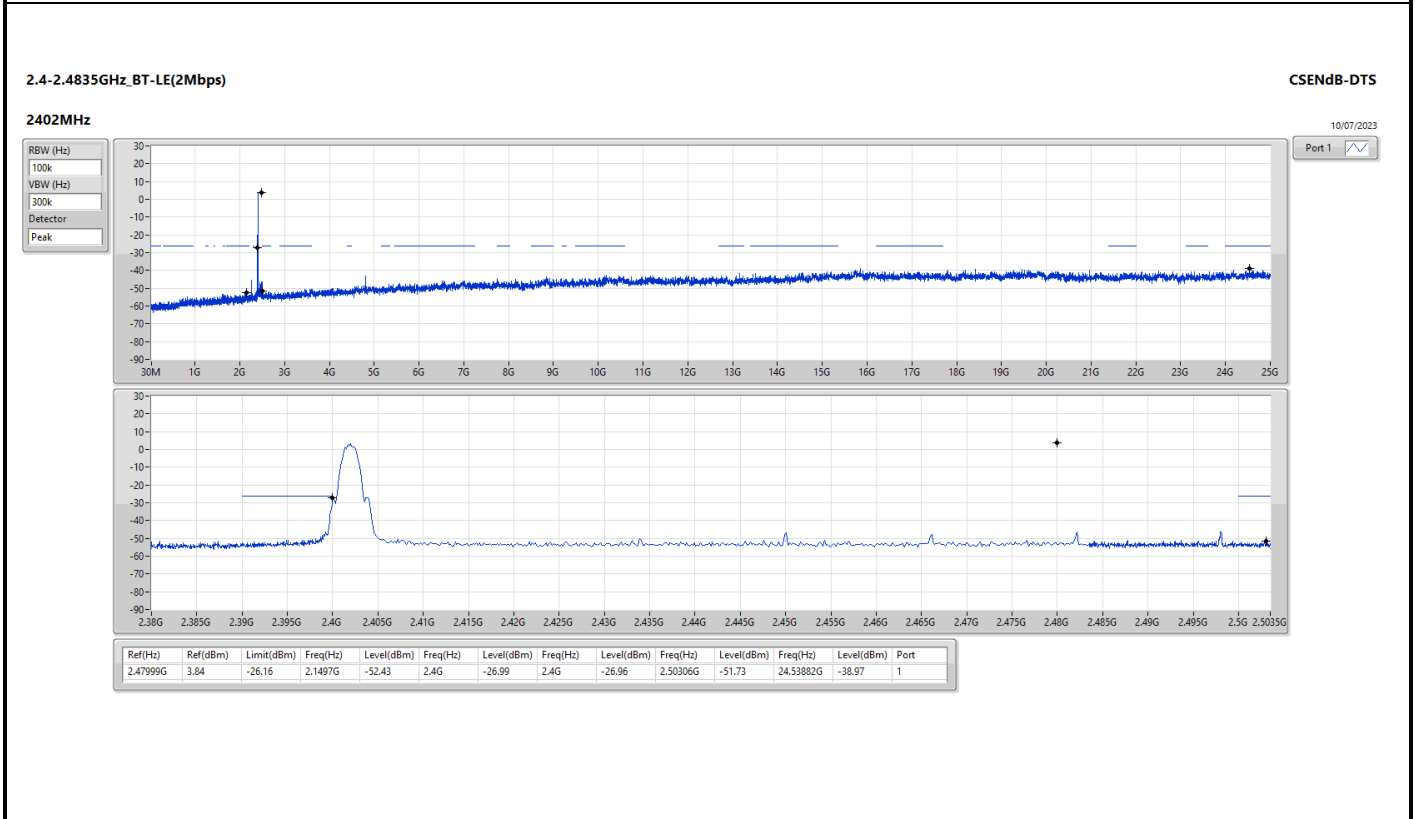
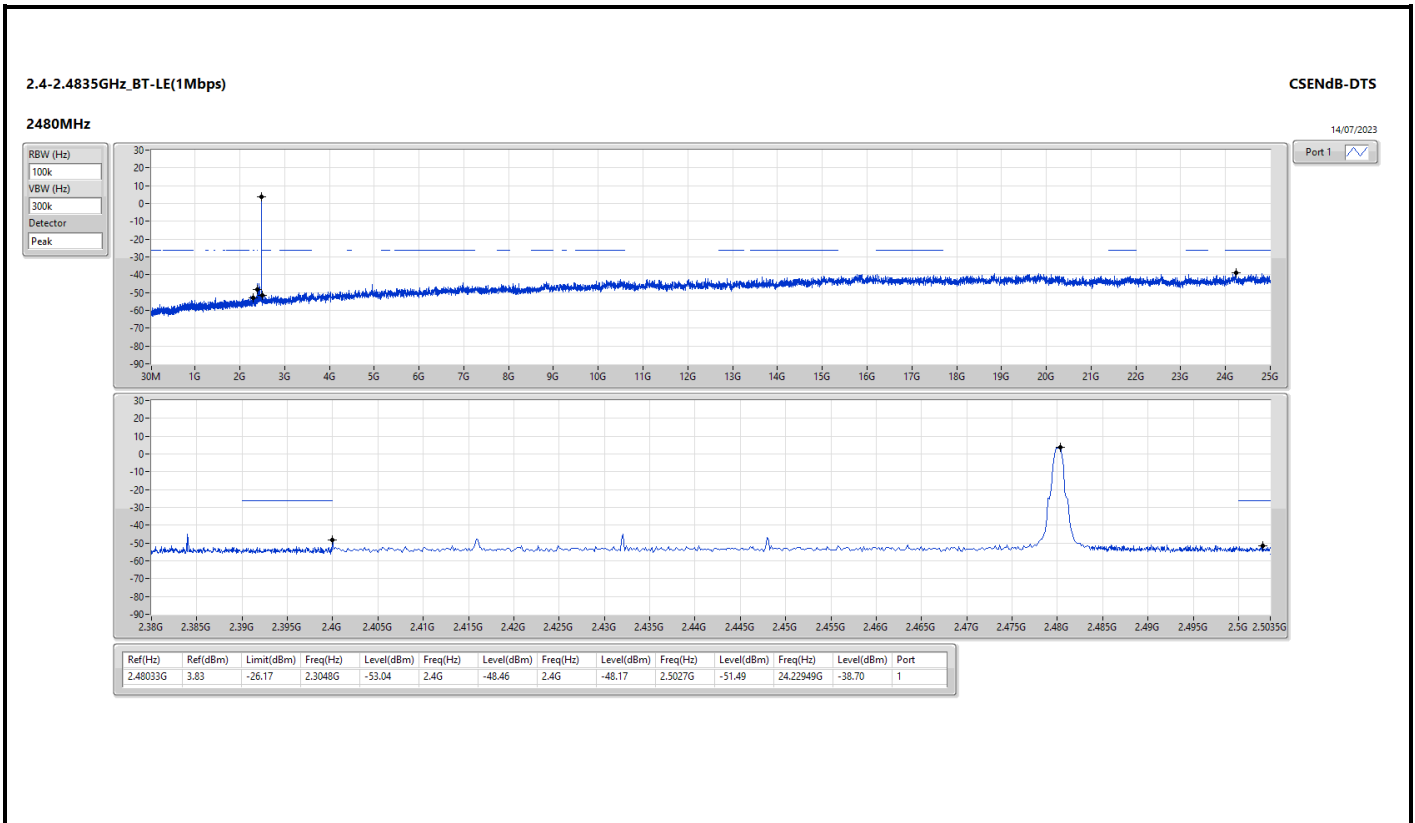
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	2.48033G	3.83	-26.17	2.18495G	-52.01	2.392G	-44.66	2.4G	-54.79	2.5017G	-51.86	24.16482G	-39.37	1
BT-LE(2Mbps)	Pass	2.47999G	3.84	-26.16	2.1497G	-52.43	2.4G	-26.99	2.4G	-26.96	2.50306G	-51.73	24.53882G	-38.97	1

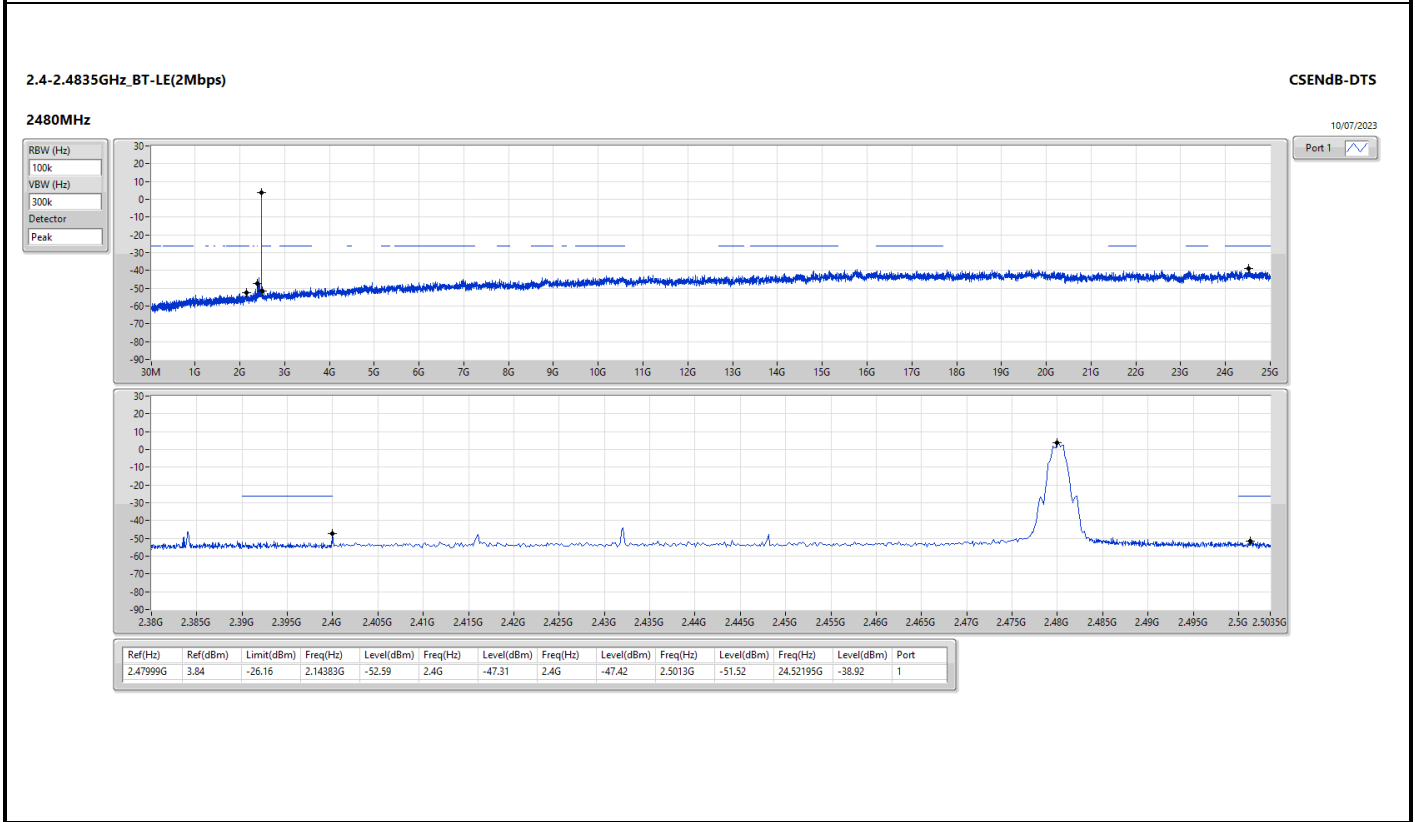
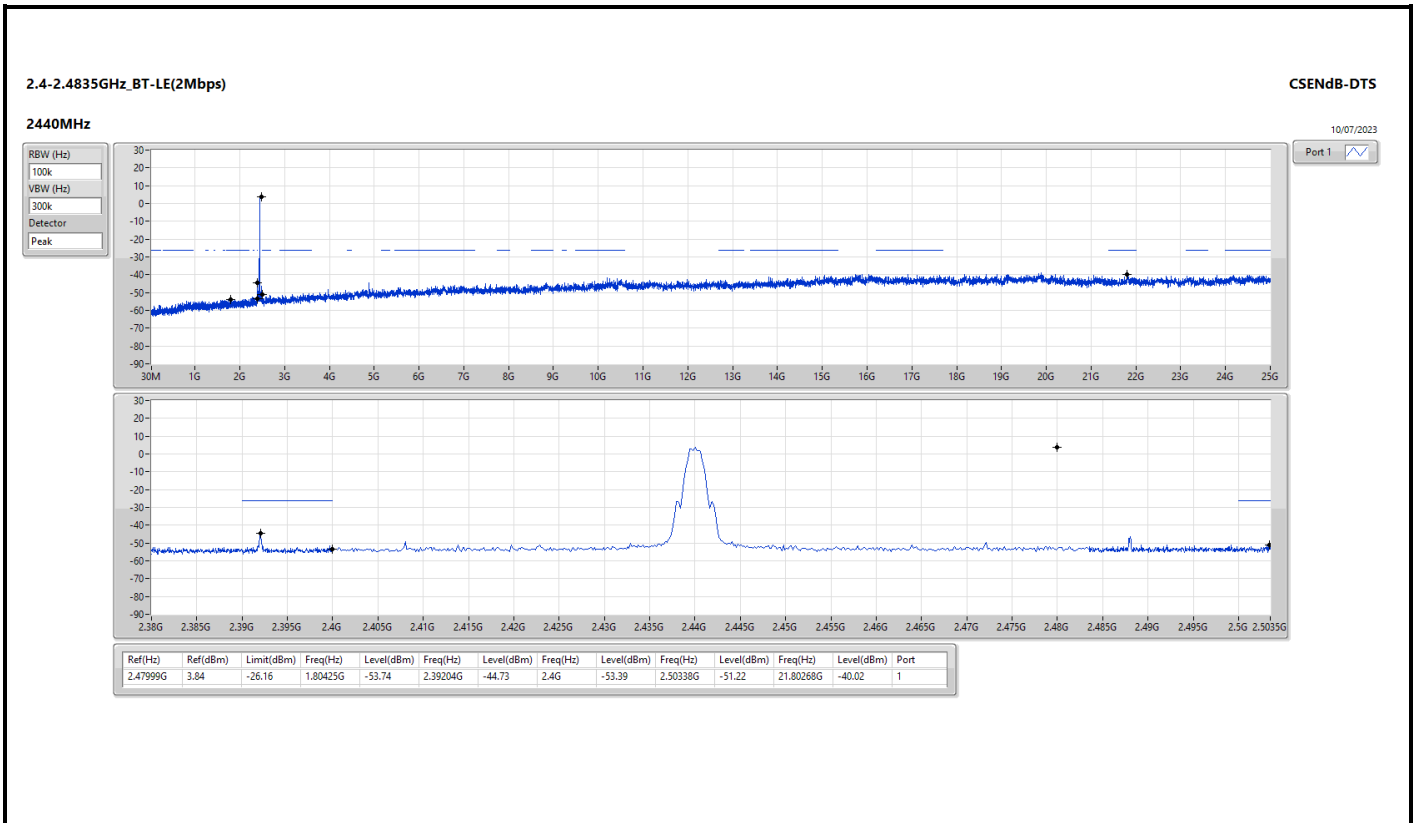


Result

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-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.48033G	3.83	-26.17	2.30598G	-47.56	2.4G	-48.34	2.4G	-46.79	2.50338G	-51.94	14.99749G	-39.63	1
2440MHz	Pass	2.48033G	3.83	-26.17	2.18495G	-52.01	2.392G	-44.66	2.4G	-54.79	2.5017G	-51.86	24.16482G	-39.37	1
2480MHz	Pass	2.48033G	3.83	-26.17	2.3048G	-53.04	2.4G	-48.46	2.4G	-48.17	2.5027G	-51.49	24.22949G	-38.70	1
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.47999G	3.84	-26.16	2.1497G	-52.43	2.4G	-26.99	2.4G	-26.96	2.50306G	-51.73	24.53882G	-38.97	1
2440MHz	Pass	2.47999G	3.84	-26.16	1.80425G	-53.74	2.39204G	-44.73	2.4G	-53.39	2.50338G	-51.22	21.80268G	-40.02	1
2480MHz	Pass	2.47999G	3.84	-26.16	2.14383G	-52.59	2.4G	-47.31	2.4G	-47.42	2.5013G	-51.52	24.52195G	-38.92	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-LE(2Mbps)	Pass	PK	284.14M	42.64	46.00	-3.36	3	Vertical	360	1.00

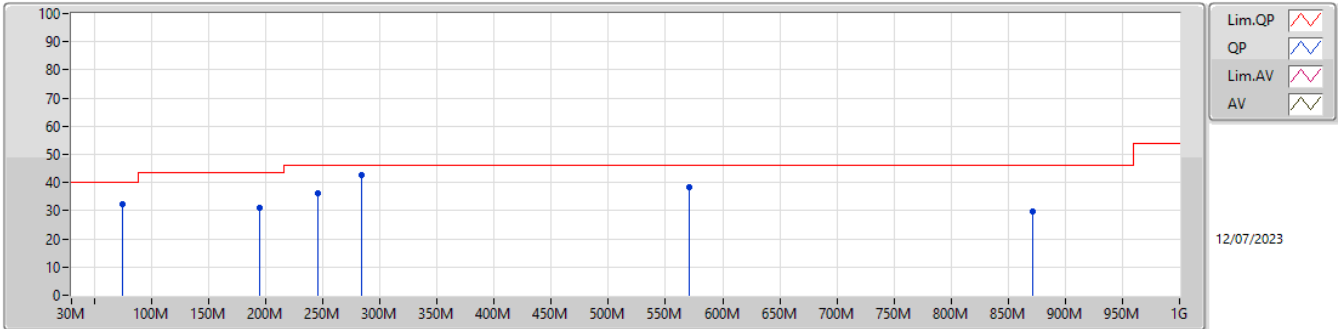


Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	PK	194.9M	31.22	43.50	-12.28	3	Vertical	360	1.00
2402MHz	Pass	PK	245.34M	36.00	46.00	-10.00	3	Vertical	360	1.00
2402MHz	Pass	PK	284.14M	42.64	46.00	-3.36	3	Vertical	360	1.00
2402MHz	Pass	PK	571.26M	38.21	46.00	-7.79	3	Vertical	360	1.00
2402MHz	Pass	PK	871.96M	29.95	46.00	-16.05	3	Vertical	360	1.00
2402MHz	Pass	QP	74.62M	32.13	40.00	-7.87	3	Vertical	191	1.14
2402MHz	Pass	PK	101.78M	35.91	43.50	-7.59	3	Horizontal	0	1.00
2402MHz	Pass	PK	146.4M	30.99	43.50	-12.51	3	Horizontal	0	1.00
2402MHz	Pass	PK	222.06M	31.88	46.00	-14.12	3	Horizontal	0	1.00
2402MHz	Pass	PK	293.84M	37.76	46.00	-8.24	3	Horizontal	0	1.00
2402MHz	Pass	PK	326.82M	37.78	46.00	-8.22	3	Horizontal	0	1.00
2402MHz	Pass	PK	571.26M	32.50	46.00	-13.50	3	Horizontal	0	1.00

2.4-2.4835GHz_BT-LE(2Mbps)

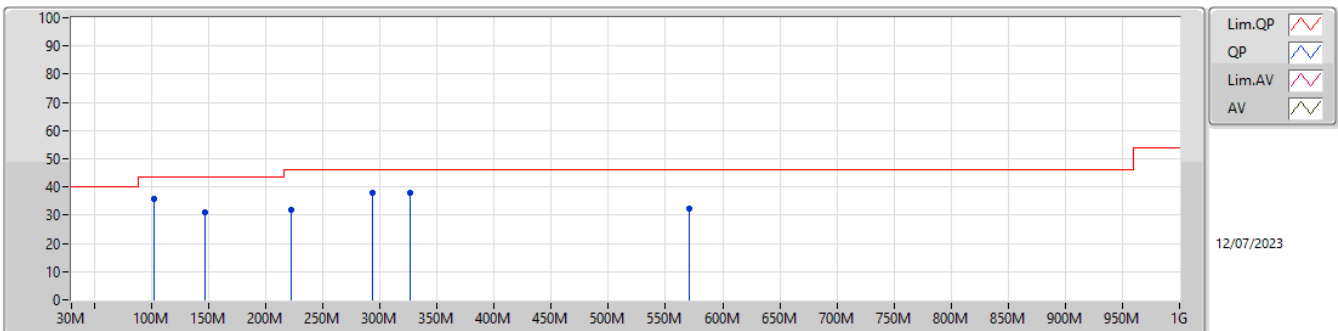
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	194.9M	31.22	43.50	-12.28	-20.65	3	Vertical	360	1.00	51.87	14.03	1.58	36.26
PK	245.34M	36.00	46.00	-10.00	-17.50	3	Vertical	360	1.00	53.50	17.08	1.82	36.40
PK	284.14M	42.64	46.00	-3.36	-16.38	3	Vertical	360	1.00	59.02	18.03	1.98	36.39
PK	571.26M	38.21	46.00	-7.79	-9.05	3	Vertical	360	1.00	47.26	25.06	2.96	37.07
PK	871.96M	29.95	46.00	-16.05	-5.51	3	Vertical	360	1.00	35.46	28.28	3.74	37.53
QP	74.62M	32.13	40.00	-7.87	-23.93	3	Vertical	191	1.14	56.06	11.95	0.94	36.82

2.4-2.4835GHz_BT-LE(2Mbps)

2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	101.78M	35.91	43.50	-7.59	-20.03	3	Horizontal	0	1.00	55.94	15.43	1.12	36.58
PK	146.4M	30.99	43.50	-12.51	-18.57	3	Horizontal	0	1.00	49.56	16.44	1.34	36.35
PK	222.06M	31.88	46.00	-14.12	-20.13	3	Horizontal	0	1.00	52.01	14.46	1.71	36.30
PK	293.84M	37.76	46.00	-8.24	-16.07	3	Horizontal	0	1.00	53.83	18.29	2.02	36.38
PK	326.82M	37.78	46.00	-8.22	-15.49	3	Horizontal	0	1.00	53.27	18.80	2.15	36.44
PK	571.26M	32.50	46.00	-13.50	-9.05	3	Horizontal	0	1.00	41.55	25.06	2.96	37.07



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-LE(1Mbps)	Pass	AV	4.87997G	51.10	54.00	-2.90	3	Vertical	208	1.50
BT-LE(2Mbps)	Pass	AV	2.4835G	49.31	54.00	-4.69	3	Vertical	183	1.00



Result

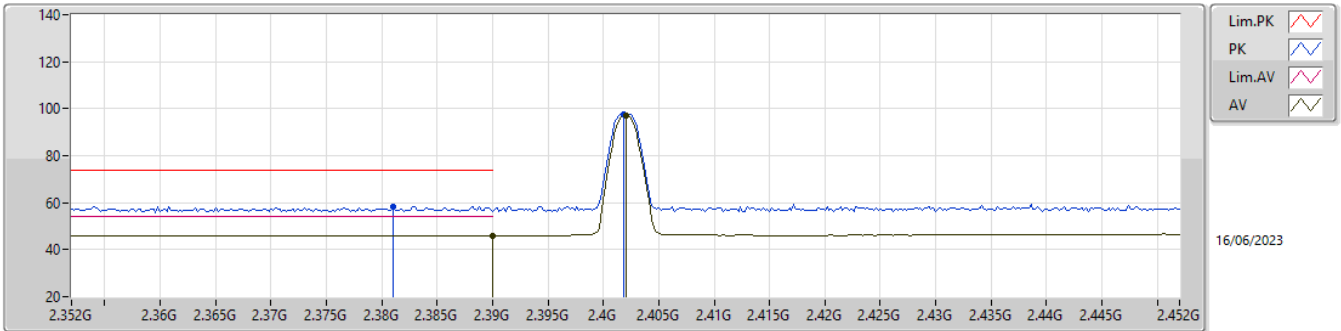
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.39G	46.02	54.00	-7.98	3	Vertical	180	1.50
2402MHz	Pass	AV	2.402G	97.27	Inf	-Inf	3	Vertical	180	1.50
2402MHz	Pass	PK	2.381G	58.46	74.00	-15.54	3	Vertical	180	1.50
2402MHz	Pass	PK	2.4018G	97.74	Inf	-Inf	3	Vertical	180	1.50
2402MHz	Pass	AV	2.3884G	45.97	54.00	-8.03	3	Horizontal	267	1.50
2402MHz	Pass	AV	2.402G	81.54	Inf	-Inf	3	Horizontal	267	1.50
2402MHz	Pass	PK	2.378G	58.95	74.00	-15.05	3	Horizontal	267	1.50
2402MHz	Pass	PK	2.4016G	82.36	Inf	-Inf	3	Horizontal	267	1.50
2402MHz	Pass	AV	4.80393G	47.69	54.00	-6.31	3	Vertical	188	2.61
2402MHz	Pass	PK	4.80362G	54.06	74.00	-19.94	3	Vertical	188	2.61
2402MHz	Pass	AV	4.80395G	42.01	54.00	-11.99	3	Horizontal	225	2.92
2402MHz	Pass	PK	4.8037G	51.00	74.00	-23.00	3	Horizontal	225	2.92
2440MHz	Pass	AV	2.376G	46.03	54.00	-7.97	3	Vertical	183	1.20
2440MHz	Pass	AV	2.44G	96.47	Inf	-Inf	3	Vertical	183	1.20
2440MHz	Pass	AV	2.4996G	46.88	54.00	-7.12	3	Vertical	183	1.20
2440MHz	Pass	PK	2.3796G	58.21	74.00	-15.79	3	Vertical	183	1.20
2440MHz	Pass	PK	2.4404G	96.98	Inf	-Inf	3	Vertical	183	1.20
2440MHz	Pass	PK	2.4924G	59.32	74.00	-14.68	3	Vertical	183	1.20
2440MHz	Pass	AV	2.3872G	45.95	54.00	-8.05	3	Horizontal	256	2.74
2440MHz	Pass	AV	2.44G	85.41	Inf	-Inf	3	Horizontal	256	2.74
2440MHz	Pass	AV	2.5G	46.86	54.00	-7.14	3	Horizontal	256	2.74
2440MHz	Pass	PK	2.3864G	58.23	74.00	-15.77	3	Horizontal	256	2.74
2440MHz	Pass	PK	2.4396G	86.01	Inf	-Inf	3	Horizontal	256	2.74
2440MHz	Pass	PK	2.4884G	59.40	74.00	-14.60	3	Horizontal	256	2.74
2440MHz	Pass	AV	4.87997G	51.10	54.00	-2.90	3	Vertical	208	1.50
2440MHz	Pass	AV	7.31944G	41.09	54.00	-12.91	3	Vertical	207	1.50
2440MHz	Pass	PK	4.87937G	55.81	74.00	-18.19	3	Vertical	208	1.50
2440MHz	Pass	PK	7.31908G	53.29	74.00	-20.71	3	Vertical	207	1.50
2440MHz	Pass	AV	4.87995G	46.09	54.00	-7.91	3	Horizontal	216	2.92
2440MHz	Pass	AV	7.31952G	39.30	54.00	-14.70	3	Horizontal	200	1.20
2440MHz	Pass	PK	4.88043G	52.69	74.00	-21.31	3	Horizontal	216	2.92
2440MHz	Pass	PK	7.31962G	51.94	74.00	-22.06	3	Horizontal	200	1.20
2480MHz	Pass	AV	2.48G	94.17	Inf	-Inf	3	Vertical	185	1.00
2480MHz	Pass	AV	2.4835G	46.98	54.00	-7.02	3	Vertical	185	1.00
2480MHz	Pass	PK	2.4802G	94.67	Inf	-Inf	3	Vertical	185	1.00
2480MHz	Pass	PK	2.4856G	59.20	74.00	-14.80	3	Vertical	185	1.00
2480MHz	Pass	AV	2.48G	83.96	Inf	-Inf	3	Horizontal	214	2.79
2480MHz	Pass	AV	2.4998G	46.87	54.00	-7.13	3	Horizontal	214	2.79
2480MHz	Pass	PK	2.4802G	84.69	Inf	-Inf	3	Horizontal	214	2.79
2480MHz	Pass	PK	2.4998G	59.08	74.00	-14.92	3	Horizontal	214	2.79
2480MHz	Pass	AV	4.95995G	49.04	54.00	-4.96	3	Vertical	179	2.89
2480MHz	Pass	AV	7.43928G	38.57	54.00	-15.43	3	Vertical	200	2.50
2480MHz	Pass	PK	4.95945G	55.13	74.00	-18.87	3	Vertical	179	2.89
2480MHz	Pass	PK	7.43986G	51.68	74.00	-22.32	3	Vertical	200	2.50
2480MHz	Pass	AV	4.95996G	43.45	54.00	-10.55	3	Horizontal	211	2.85
2480MHz	Pass	AV	7.43799G	38.49	54.00	-15.51	3	Horizontal	100	1.20
2480MHz	Pass	PK	4.96034G	51.57	74.00	-22.43	3	Horizontal	211	2.85
2480MHz	Pass	PK	7.43853G	51.10	74.00	-22.90	3	Horizontal	100	1.20
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.388G	46.19	54.00	-7.81	3	Vertical	179	1.50
2402MHz	Pass	AV	2.402G	97.99	Inf	-Inf	3	Vertical	179	1.50
2402MHz	Pass	PK	2.3606G	58.28	74.00	-15.72	3	Vertical	179	1.50
2402MHz	Pass	PK	2.4024G	99.51	Inf	-Inf	3	Vertical	179	1.50
2402MHz	Pass	AV	2.374G	46.09	54.00	-7.91	3	Horizontal	279	2.27
2402MHz	Pass	AV	2.402G	85.13	Inf	-Inf	3	Horizontal	279	2.27
2402MHz	Pass	PK	2.385G	58.60	74.00	-15.40	3	Horizontal	279	2.27
2402MHz	Pass	PK	2.4024G	86.74	Inf	-Inf	3	Horizontal	279	2.27
2402MHz	Pass	AV	4.80328G	44.64	54.00	-9.36	3	Vertical	188	2.31
2402MHz	Pass	PK	4.80304G	53.39	74.00	-20.61	3	Vertical	188	2.31
2402MHz	Pass	AV	4.80311G	36.94	54.00	-17.06	3	Horizontal	315	1.74



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2402MHz	Pass	PK	4.80293G	48.62	74.00	-25.38	3	Horizontal	315	1.74
2440MHz	Pass	AV	2.376G	46.16	54.00	-7.84	3	Vertical	181	1.20
2440MHz	Pass	AV	2.44G	96.60	Inf	-Inf	3	Vertical	181	1.20
2440MHz	Pass	AV	2.5G	46.88	54.00	-7.12	3	Vertical	181	1.20
2440MHz	Pass	PK	2.3824G	58.15	74.00	-15.85	3	Vertical	181	1.20
2440MHz	Pass	PK	2.4404G	98.16	Inf	-Inf	3	Vertical	181	1.20
2440MHz	Pass	PK	2.4908G	58.97	74.00	-15.03	3	Vertical	181	1.20
2440MHz	Pass	AV	2.386G	45.97	54.00	-8.03	3	Horizontal	254	2.73
2440MHz	Pass	AV	2.44G	85.59	Inf	-Inf	3	Horizontal	254	2.73
2440MHz	Pass	AV	2.5G	46.89	54.00	-7.11	3	Horizontal	254	2.73
2440MHz	Pass	PK	2.3472G	58.12	74.00	-15.88	3	Horizontal	254	2.73
2440MHz	Pass	PK	2.4396G	87.19	Inf	-Inf	3	Horizontal	254	2.73
2440MHz	Pass	PK	2.4968G	58.75	74.00	-15.25	3	Horizontal	254	2.73
2440MHz	Pass	AV	4.88062G	48.04	54.00	-5.96	3	Vertical	208	1.98
2440MHz	Pass	AV	7.32129G	40.26	54.00	-13.74	3	Vertical	105	1.50
2440MHz	Pass	PK	4.87906G	55.78	74.00	-18.22	3	Vertical	208	1.98
2440MHz	Pass	PK	7.32108G	52.22	74.00	-21.78	3	Vertical	105	1.50
2440MHz	Pass	AV	4.88077G	38.55	54.00	-15.45	3	Horizontal	110	2.64
2440MHz	Pass	AV	7.31831G	39.41	54.00	-14.59	3	Horizontal	1	1.50
2440MHz	Pass	PK	4.87905G	49.75	74.00	-24.25	3	Horizontal	110	2.64
2440MHz	Pass	PK	7.31877G	51.85	74.00	-22.15	3	Horizontal	1	1.50
2480MHz	Pass	AV	2.48G	94.72	Inf	-Inf	3	Vertical	183	1.00
2480MHz	Pass	AV	2.4835G	49.31	54.00	-4.69	3	Vertical	183	1.00
2480MHz	Pass	PK	2.4794G	96.30	Inf	-Inf	3	Vertical	183	1.00
2480MHz	Pass	PK	2.4838G	58.96	74.00	-15.04	3	Vertical	183	1.00
2480MHz	Pass	AV	2.48G	77.99	Inf	-Inf	3	Horizontal	224	2.65
2480MHz	Pass	AV	2.5G	47.01	54.00	-6.99	3	Horizontal	224	2.65
2480MHz	Pass	PK	2.4794G	80.04	Inf	-Inf	3	Horizontal	224	2.65
2480MHz	Pass	PK	2.4996G	59.34	74.00	-14.66	3	Horizontal	224	2.65
2480MHz	Pass	AV	4.96065G	46.26	54.00	-7.74	3	Vertical	182	1.18
2480MHz	Pass	AV	7.4387G	39.54	54.00	-14.46	3	Vertical	120	2.20
2480MHz	Pass	PK	4.96086G	54.63	74.00	-19.37	3	Vertical	182	1.18
2480MHz	Pass	PK	7.43818G	52.03	74.00	-21.97	3	Vertical	120	2.20
2480MHz	Pass	AV	4.9607G	42.39	54.00	-11.61	3	Horizontal	30	2.42
2480MHz	Pass	AV	7.43882G	38.94	54.00	-15.06	3	Horizontal	159	1.96
2480MHz	Pass	PK	4.96104G	52.83	74.00	-21.17	3	Horizontal	30	2.42
2480MHz	Pass	PK	7.43814G	50.60	74.00	-23.40	3	Horizontal	159	1.96

2.4-2.4835GHz_BT-LE(1Mbps)

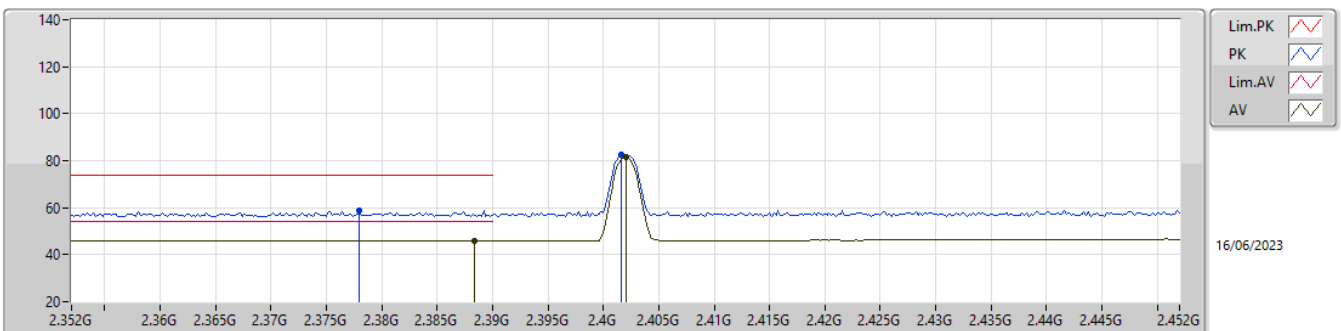
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	46.02	54.00	-7.98	31.14	3	Vertical	180	1.50	14.88	27.38	3.76	-
AV	2.402G	97.27	Inf	-Inf	31.17	3	Vertical	180	1.50	66.10	27.40	3.77	-
PK	2.381G	58.46	74.00	-15.54	31.11	3	Vertical	180	1.50	27.35	27.36	3.75	-
PK	2.4018G	97.74	Inf	-Inf	31.17	3	Vertical	180	1.50	66.57	27.40	3.77	-

2.4-2.4835GHz_BT-LE(1Mbps)

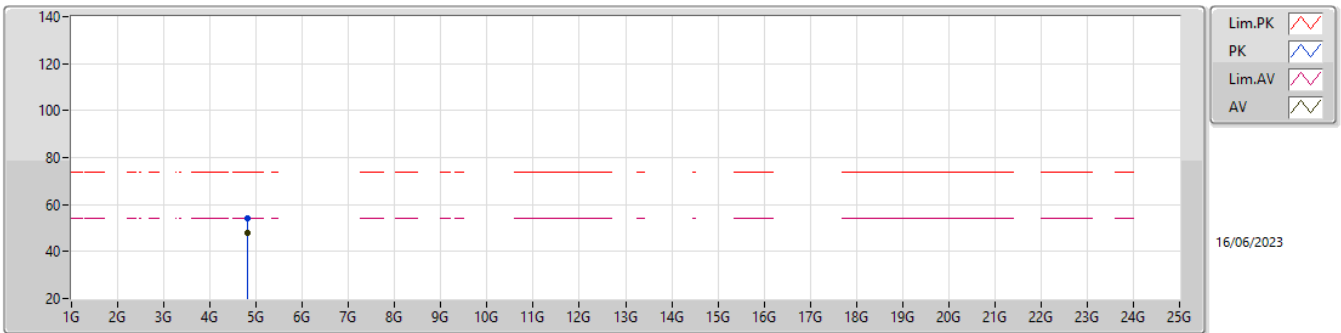
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3884G	45.97	54.00	-8.03	31.14	3	Horizontal	267	1.50	14.83	27.38	3.76	-
AV	2.402G	81.54	Inf	-Inf	31.17	3	Horizontal	267	1.50	50.37	27.40	3.77	-
PK	2.378G	58.95	74.00	-15.05	31.11	3	Horizontal	267	1.50	27.84	27.36	3.75	-
PK	2.4016G	82.36	Inf	-Inf	31.17	3	Horizontal	267	1.50	51.19	27.40	3.77	-

2.4-2.4835GHz_BT-LE(1Mbps)

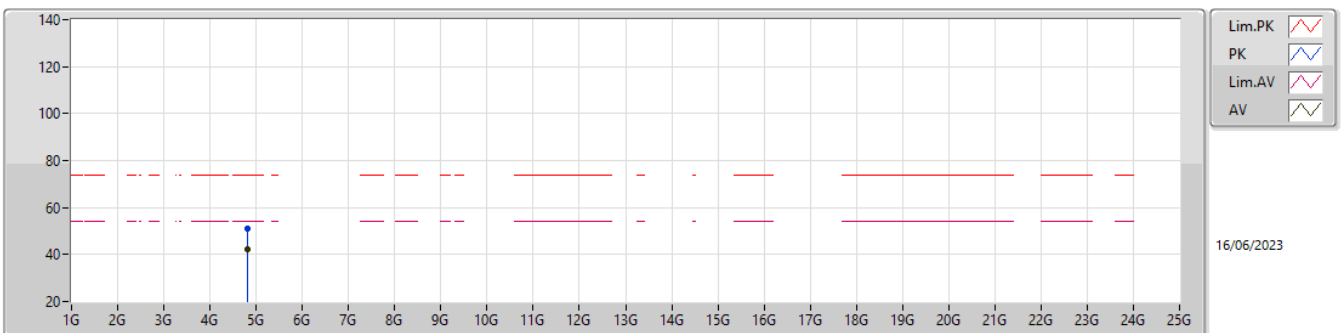
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80393G	47.69	54.00	-6.31	2.98	3	Vertical	188	2.61	44.71	32.32	5.32	34.66
PK	4.80362G	54.06	74.00	-19.94	2.98	3	Vertical	188	2.61	51.08	32.32	5.32	34.66

2.4-2.4835GHz_BT-LE(1Mbps)

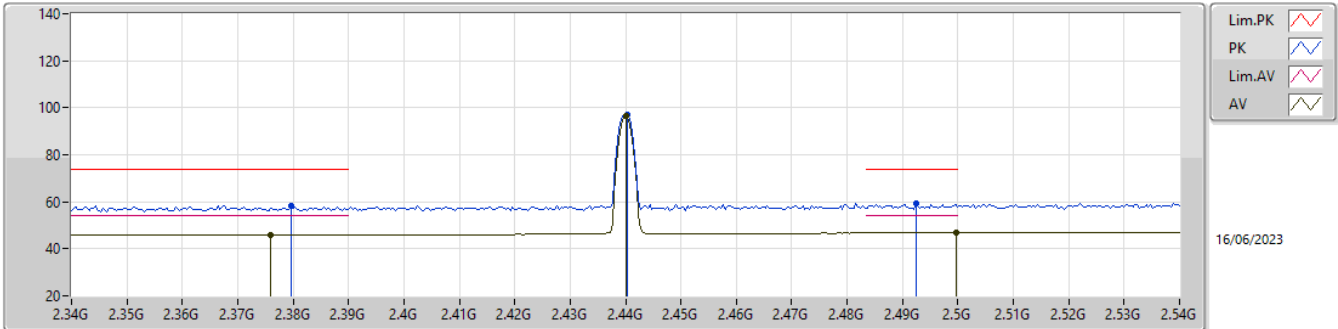
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80395G	42.01	54.00	-11.99	2.98	3	Horizontal	225	2.92	39.03	32.32	5.32	34.66
PK	4.8037G	51.00	74.00	-23.00	2.98	3	Horizontal	225	2.92	48.02	32.32	5.32	34.66

2.4-2.4835GHz_BT-LE(1Mbps)

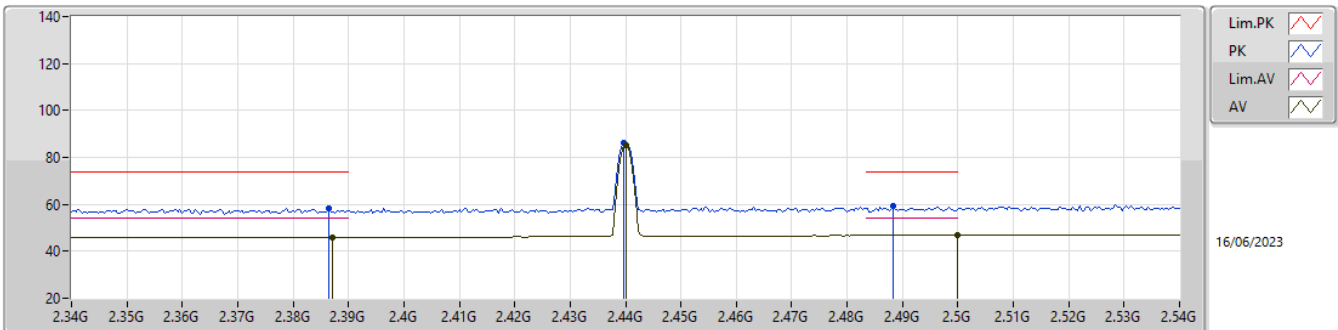
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.376G	46.03	54.00	-7.97	31.09	3	Vertical	183	1.20	14.94	27.35	3.74	-
AV	2.44G	96.47	Inf	-Inf	31.28	3	Vertical	183	1.20	65.19	27.48	3.80	-
AV	2.4996G	46.88	54.00	-7.12	31.65	3	Vertical	183	1.20	15.23	27.80	3.85	-
PK	2.3796G	58.21	74.00	-15.79	31.11	3	Vertical	183	1.20	27.10	27.36	3.75	-
PK	2.4404G	96.98	Inf	-Inf	31.28	3	Vertical	183	1.20	65.70	27.48	3.80	-
PK	2.4924G	59.32	74.00	-14.68	31.60	3	Vertical	183	1.20	27.72	27.75	3.85	-

2.4-2.4835GHz_BT-LE(1Mbps)

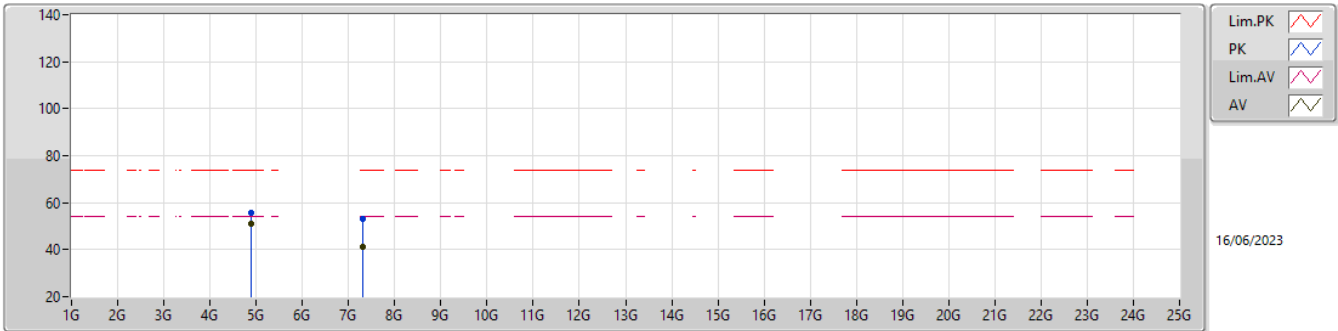
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3872G	45.95	54.00	-8.05	31.13	3	Horizontal	256	2.74	14.82	27.37	3.76	-
AV	2.44G	85.41	Inf	-Inf	31.28	3	Horizontal	256	2.74	54.13	27.48	3.80	-
AV	2.5G	46.86	54.00	-7.14	31.65	3	Horizontal	256	2.74	15.21	27.80	3.85	-
PK	2.3864G	58.23	74.00	-15.77	31.13	3	Horizontal	256	2.74	27.10	27.37	3.76	-
PK	2.4396G	86.01	Inf	-Inf	31.28	3	Horizontal	256	2.74	54.73	27.48	3.80	-
PK	2.4884G	59.40	74.00	-14.60	31.58	3	Horizontal	256	2.74	27.82	27.73	3.85	-

2.4-2.4835GHz_BT-LE(1Mbps)

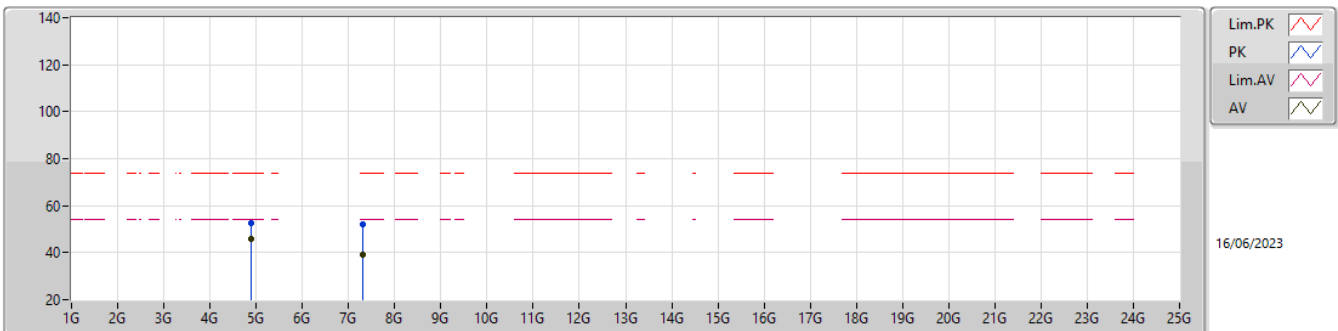
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87997G	51.10	54.00	-2.90	3.33	3	Vertical	208	1.50	47.77	32.60	5.38	34.65
AV	7.31944G	41.09	54.00	-12.91	8.52	3	Vertical	207	1.50	32.57	36.66	6.64	34.78
PK	4.87937G	55.81	74.00	-18.19	3.33	3	Vertical	208	1.50	52.48	32.60	5.38	34.65
PK	7.31908G	53.29	74.00	-20.71	8.52	3	Vertical	207	1.50	44.77	36.66	6.64	34.78

2.4-2.4835GHz_BT-LE(1Mbps)

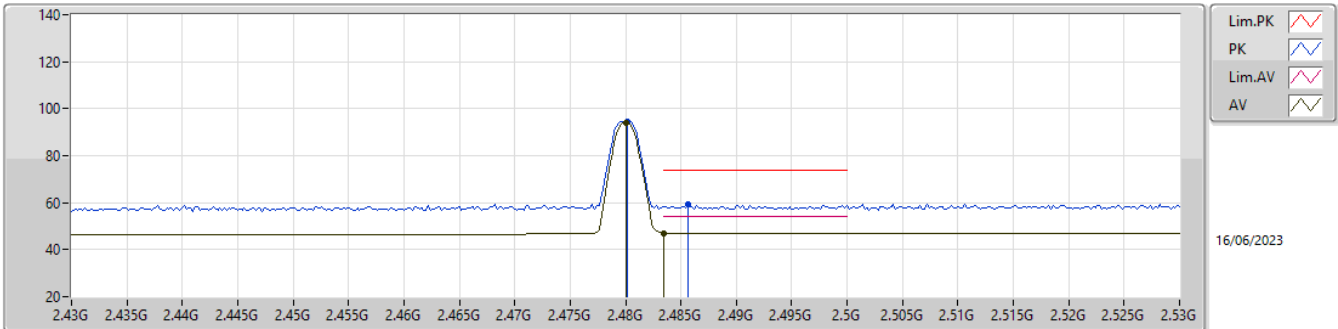
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87995G	46.09	54.00	-7.91	3.33	3	Horizontal	216	2.92	42.76	32.60	5.38	34.65
AV	7.31952G	39.30	54.00	-14.70	8.52	3	Horizontal	200	1.20	30.78	36.66	6.64	34.78
PK	4.88043G	52.69	74.00	-21.31	3.33	3	Horizontal	216	2.92	49.36	32.60	5.38	34.65
PK	7.31962G	51.94	74.00	-22.06	8.52	3	Horizontal	200	1.20	43.42	36.66	6.64	34.78

2.4-2.4835GHz_BT-LE(1Mbps)

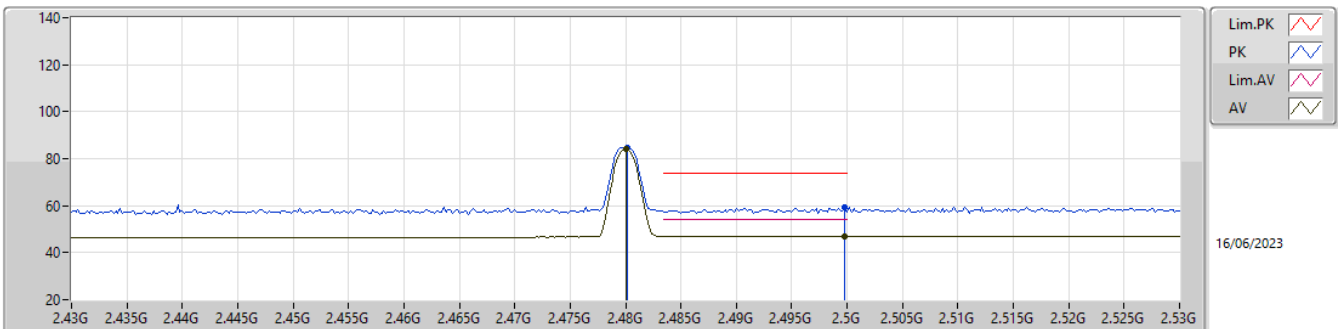
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	94.17	Inf	-Inf	31.52	3	Vertical	185	1.00	62.65	27.68	3.84	-
AV	2.4835G	46.98	54.00	-7.02	31.54	3	Vertical	185	1.00	15.44	27.70	3.84	-
PK	2.4802G	94.67	Inf	-Inf	31.52	3	Vertical	185	1.00	63.15	27.68	3.84	-
PK	2.4856G	59.20	74.00	-14.80	31.55	3	Vertical	185	1.00	27.65	27.71	3.84	-

2.4-2.4835GHz_BT-LE(1Mbps)

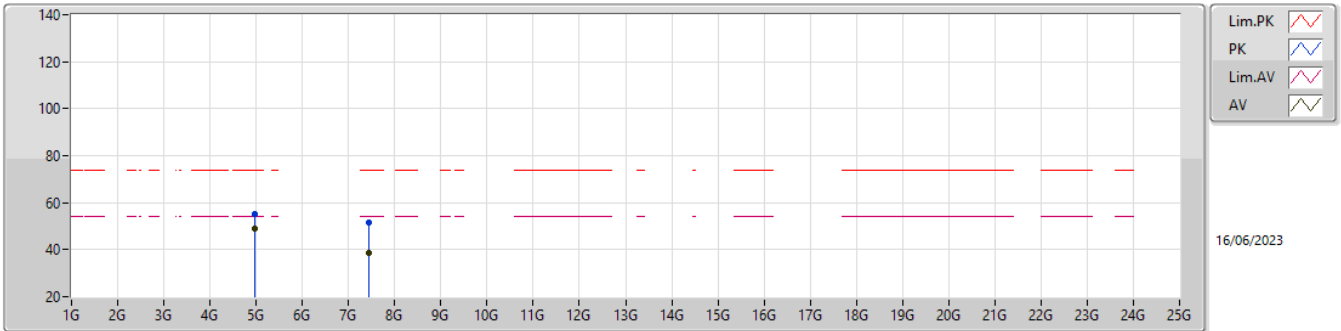
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	83.96	Inf	-Inf	31.52	3	Horizontal	214	2.79	52.44	27.68	3.84	-
AV	2.4998G	46.87	54.00	-7.13	31.65	3	Horizontal	214	2.79	15.22	27.80	3.85	-
PK	2.4802G	84.69	Inf	-Inf	31.52	3	Horizontal	214	2.79	53.17	27.68	3.84	-
PK	2.4998G	59.08	74.00	-14.92	31.65	3	Horizontal	214	2.79	27.43	27.80	3.85	-

2.4-2.4835GHz_BT-LE(1Mbps)

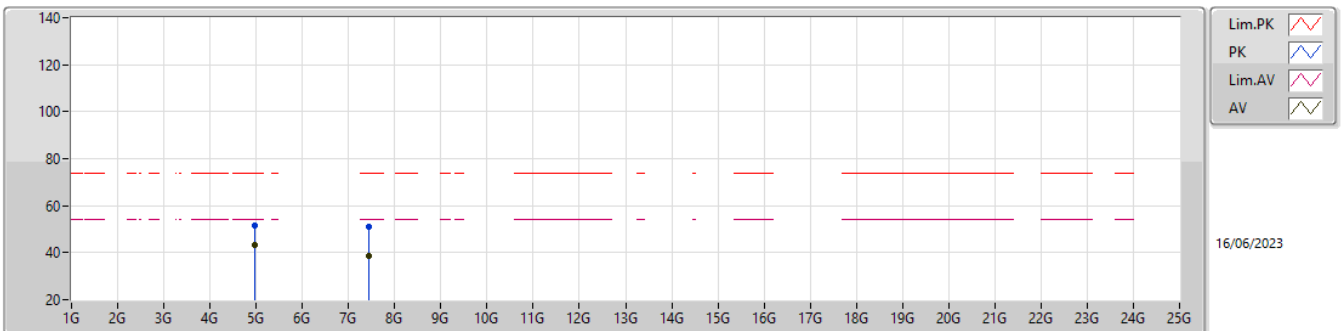
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.95995G	49.04	54.00	-4.96	3.64	3	Vertical	179	2.89	45.40	32.84	5.44	34.64
AV	7.43928G	38.57	54.00	-15.43	8.23	3	Vertical	200	2.50	30.34	36.32	6.70	34.79
PK	4.95945G	55.13	74.00	-18.87	3.64	3	Vertical	179	2.89	51.49	32.84	5.44	34.64
PK	7.43986G	51.68	74.00	-22.32	8.23	3	Vertical	200	2.50	43.45	36.32	6.70	34.79

2.4-2.4835GHz_BT-LE(1Mbps)

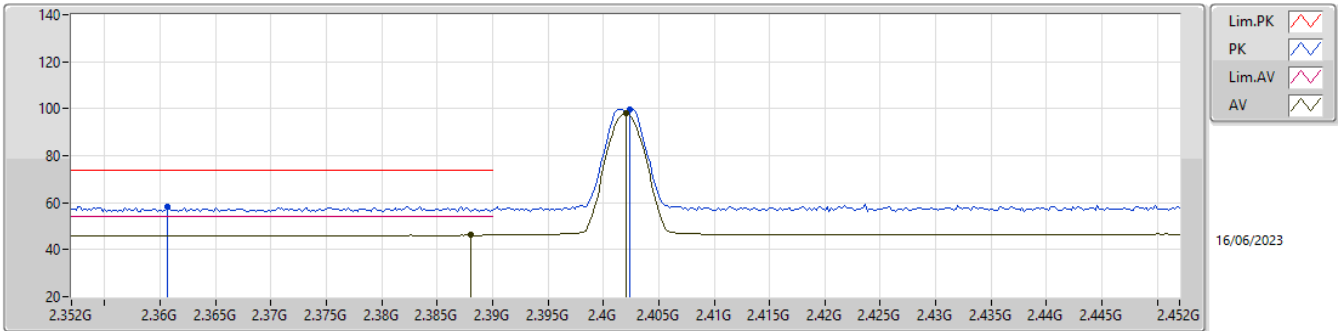
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.95996G	43.45	54.00	-10.55	3.64	3	Horizontal	211	2.85	39.81	32.84	5.44	34.64
AV	7.43799G	38.49	54.00	-15.51	8.23	3	Horizontal	100	1.20	30.26	36.32	6.70	34.79
PK	4.96034G	51.57	74.00	-22.43	3.64	3	Horizontal	211	2.85	47.93	32.84	5.44	34.64
PK	7.43853G	51.10	74.00	-22.90	8.23	3	Horizontal	100	1.20	42.87	36.32	6.70	34.79

2.4-2.4835GHz_BT-LE(2Mbps)

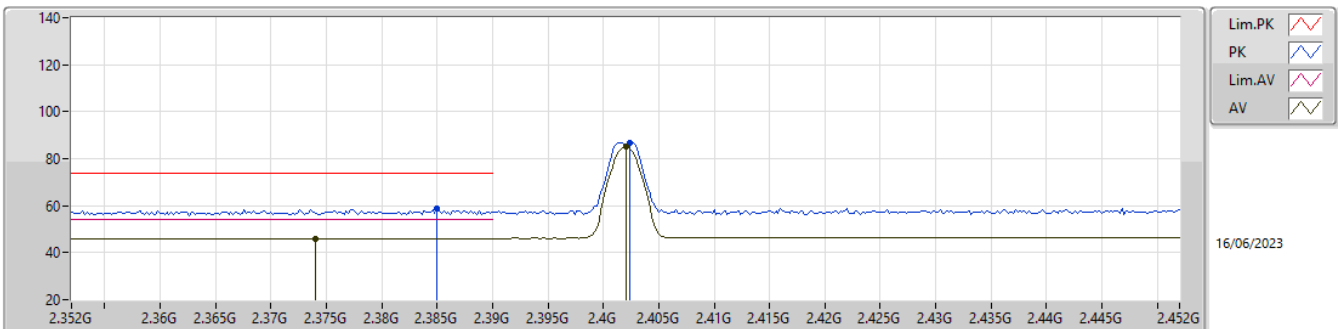
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.388G	46.19	54.00	-7.81	31.14	3	Vertical	179	1.50	15.05	27.38	3.76	-
AV	2.402G	97.99	Inf	-Inf	31.17	3	Vertical	179	1.50	66.82	27.40	3.77	-
PK	2.3606G	58.28	74.00	-15.72	31.05	3	Vertical	179	1.50	27.23	27.32	3.73	-
PK	2.4024G	99.51	Inf	-Inf	31.17	3	Vertical	179	1.50	68.34	27.40	3.77	-

2.4-2.4835GHz_BT-LE(2Mbps)

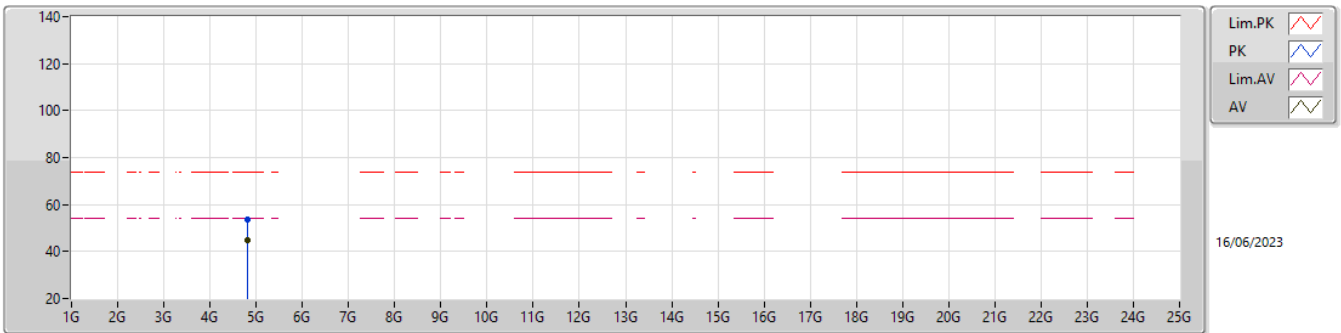
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.374G	46.09	54.00	-7.91	31.09	3	Horizontal	279	2.27	15.00	27.35	3.74	-
AV	2.402G	85.13	Inf	-Inf	31.17	3	Horizontal	279	2.27	53.96	27.40	3.77	-
PK	2.385G	58.60	74.00	-15.40	31.12	3	Horizontal	279	2.27	27.48	27.37	3.75	-
PK	2.4024G	86.74	Inf	-Inf	31.17	3	Horizontal	279	2.27	55.57	27.40	3.77	-

2.4-2.4835GHz_BT-LE(2Mbps)

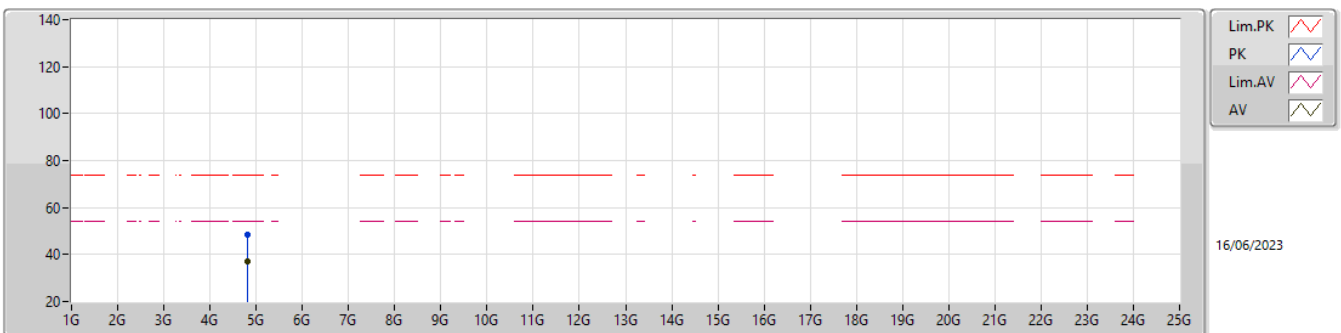
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80328G	44.64	54.00	-9.36	2.98	3	Vertical	188	2.31	41.66	32.32	5.32	34.66
PK	4.80304G	53.39	74.00	-20.61	2.98	3	Vertical	188	2.31	50.41	32.32	5.32	34.66

2.4-2.4835GHz_BT-LE(2Mbps)

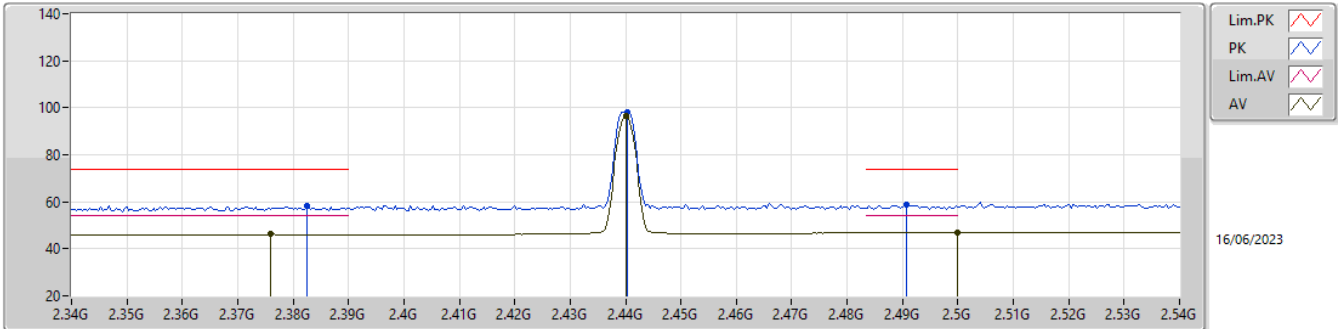
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80311G	36.94	54.00	-17.06	2.98	3	Horizontal	315	1.74	33.96	32.32	5.32	34.66
PK	4.80293G	48.62	74.00	-25.38	2.98	3	Horizontal	315	1.74	45.64	32.32	5.32	34.66

2.4-2.4835GHz_BT-LE(2Mbps)

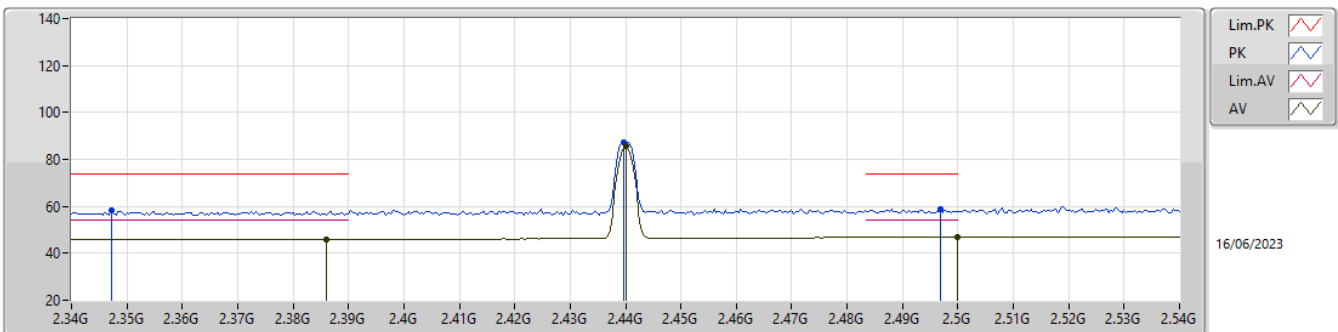
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.376G	46.16	54.00	-7.84	31.09	3	Vertical	181	1.20	15.07	27.35	3.74	-
AV	2.44G	96.60	Inf	-Inf	31.28	3	Vertical	181	1.20	65.32	27.48	3.80	-
AV	2.5G	46.88	54.00	-7.12	31.65	3	Vertical	181	1.20	15.23	27.80	3.85	-
PK	2.3824G	58.15	74.00	-15.85	31.11	3	Vertical	181	1.20	27.04	27.36	3.75	-
PK	2.4404G	98.16	Inf	-Inf	31.28	3	Vertical	181	1.20	66.88	27.48	3.80	-
PK	2.4908G	58.97	74.00	-15.03	31.59	3	Vertical	181	1.20	27.38	27.74	3.85	-

2.4-2.4835GHz_BT-LE(2Mbps)

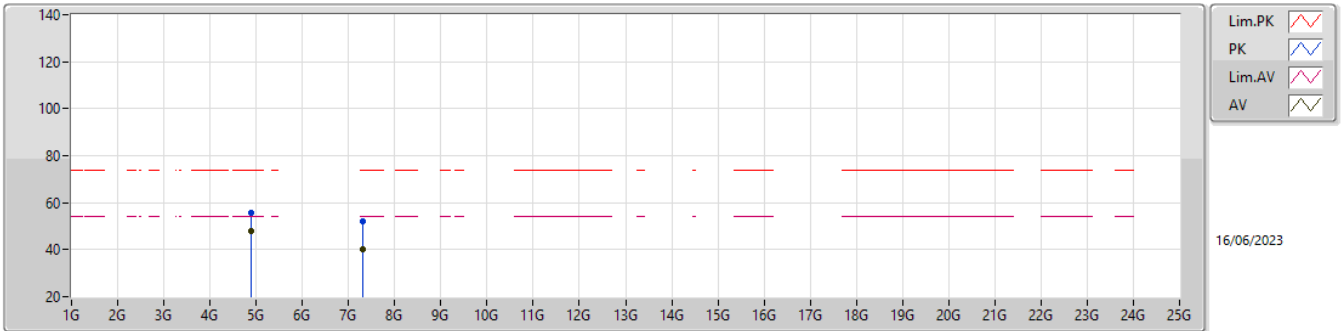
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.386G	45.97	54.00	-8.03	31.13	3	Horizontal	254	2.73	14.84	27.37	3.76	-
AV	2.44G	85.59	Inf	-Inf	31.28	3	Horizontal	254	2.73	54.31	27.48	3.80	-
AV	2.5G	46.89	54.00	-7.11	31.65	3	Horizontal	254	2.73	15.24	27.80	3.85	-
PK	2.3472G	58.12	74.00	-15.88	31.00	3	Horizontal	254	2.73	27.12	27.29	3.71	-
PK	2.4396G	87.19	Inf	-Inf	31.28	3	Horizontal	254	2.73	55.91	27.48	3.80	-
PK	2.4968G	58.75	74.00	-15.25	31.63	3	Horizontal	254	2.73	27.12	27.78	3.85	-

2.4-2.4835GHz_BT-LE(2Mbps)

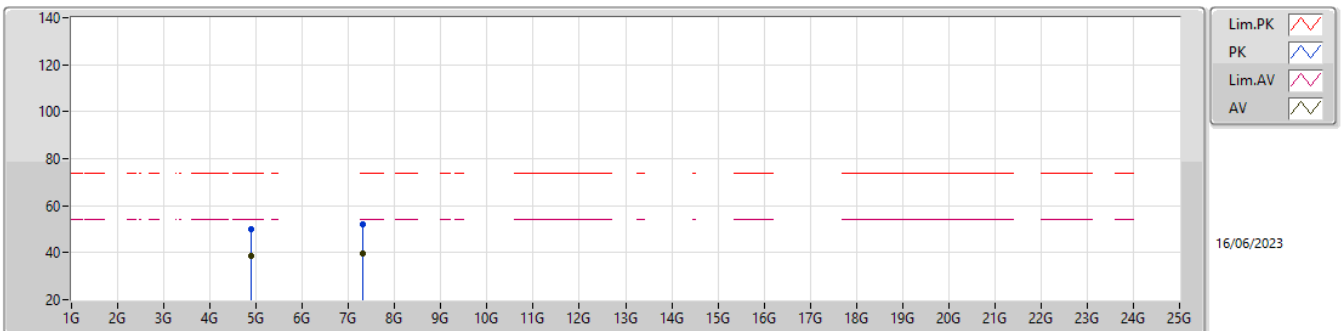
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.88062G	48.04	54.00	-5.96	3.33	3	Vertical	208	1.98	44.71	32.60	5.38	34.65
AV	7.32129G	40.26	54.00	-13.74	8.52	3	Vertical	105	1.50	31.74	36.66	6.64	34.78
PK	4.87906G	55.78	74.00	-18.22	3.33	3	Vertical	208	1.98	52.45	32.60	5.38	34.65
PK	7.32108G	52.22	74.00	-21.78	8.52	3	Vertical	105	1.50	43.70	36.66	6.64	34.78

2.4-2.4835GHz_BT-LE(2Mbps)

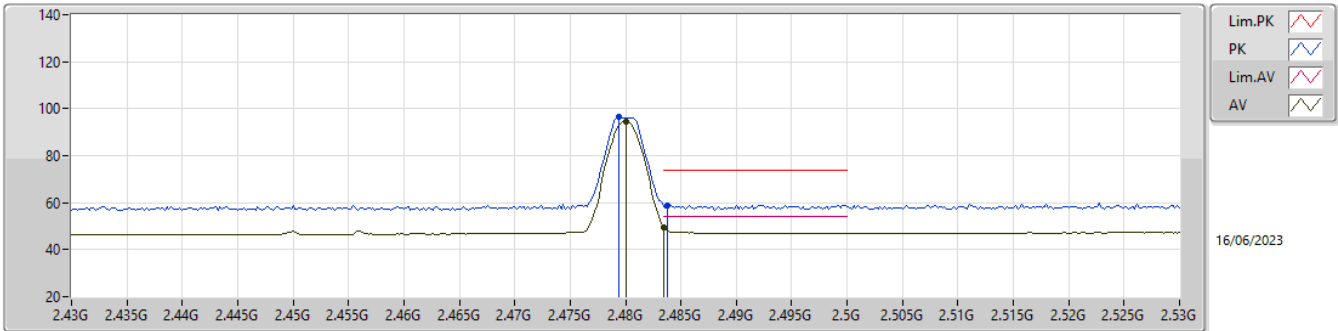
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.88077G	38.55	54.00	-15.45	3.33	3	Horizontal	110	2.64	35.22	32.60	5.38	34.65
AV	7.31831G	39.41	54.00	-14.59	8.52	3	Horizontal	1	1.50	30.89	36.66	6.64	34.78
PK	4.87905G	49.75	74.00	-24.25	3.33	3	Horizontal	110	2.64	46.42	32.60	5.38	34.65
PK	7.31877G	51.85	74.00	-22.15	8.52	3	Horizontal	1	1.50	43.33	36.66	6.64	34.78

2.4-2.4835GHz_BT-LE(2Mbps)

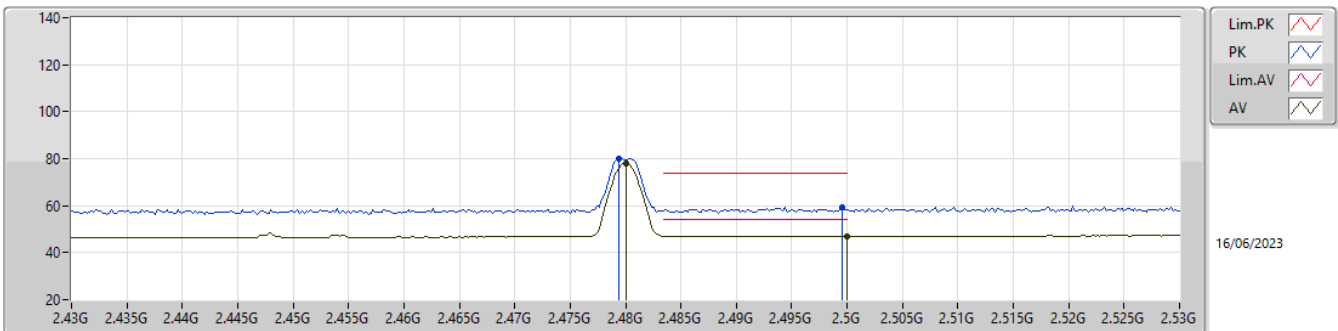
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	94.72	Inf	-Inf	31.52	3	Vertical	183	1.00	63.20	27.68	3.84	-
AV	2.4835G	49.31	54.00	-4.69	31.54	3	Vertical	183	1.00	17.77	27.70	3.84	-
PK	2.4794G	96.30	Inf	-Inf	31.52	3	Vertical	183	1.00	64.78	27.68	3.84	-
PK	2.4838G	58.96	74.00	-15.04	31.54	3	Vertical	183	1.00	27.42	27.70	3.84	-

2.4-2.4835GHz_BT-LE(2Mbps)

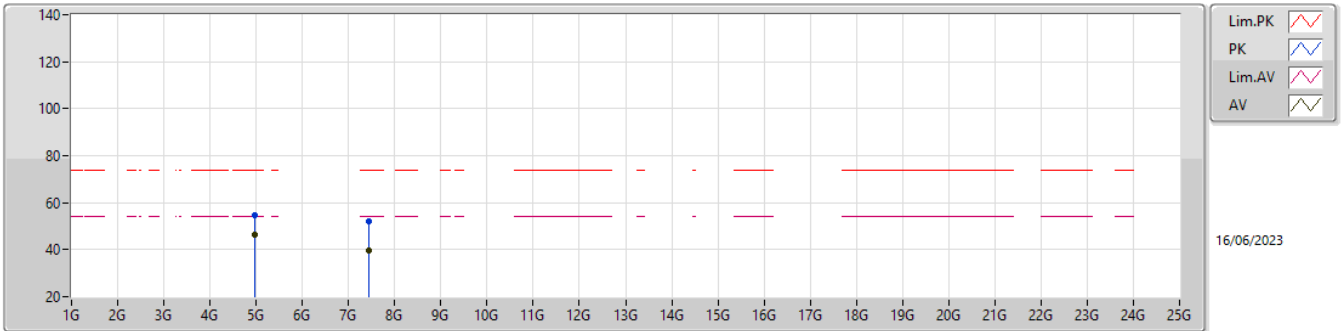
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	77.99	Inf	-Inf	31.52	3	Horizontal	224	2.65	46.47	27.68	3.84	-
AV	2.5G	47.01	54.00	-6.99	31.65	3	Horizontal	224	2.65	15.36	27.80	3.85	-
PK	2.4794G	80.04	Inf	-Inf	31.52	3	Horizontal	224	2.65	48.52	27.68	3.84	-
PK	2.4996G	59.34	74.00	-14.66	31.65	3	Horizontal	224	2.65	27.69	27.80	3.85	-

2.4-2.4835GHz_BT-LE(2Mbps)

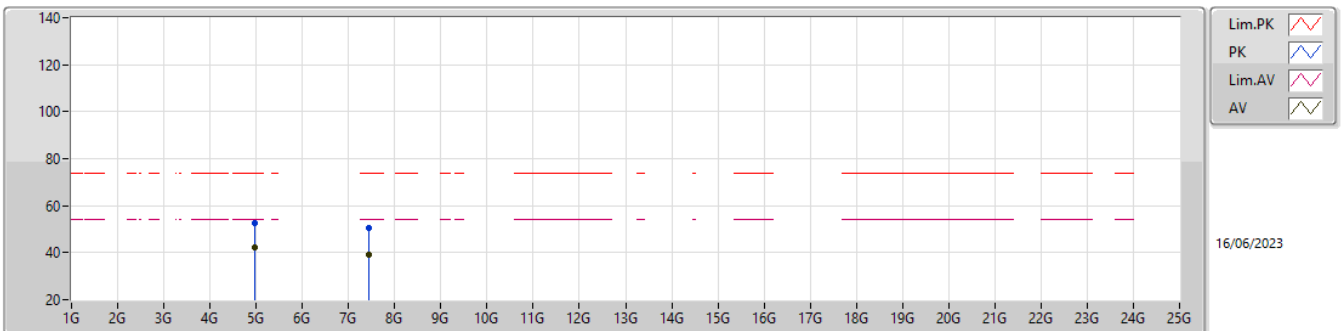
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.96065G	46.26	54.00	-7.74	3.64	3	Vertical	182	1.18	42.62	32.84	5.44	34.64
AV	7.4387G	39.54	54.00	-14.46	8.23	3	Vertical	120	2.20	31.31	36.32	6.70	34.79
PK	4.96086G	54.63	74.00	-19.37	3.64	3	Vertical	182	1.18	50.99	32.84	5.44	34.64
PK	7.43818G	52.03	74.00	-21.97	8.23	3	Vertical	120	2.20	43.80	36.32	6.70	34.79

2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.9607G	42.39	54.00	-11.61	3.64	3	Horizontal	30	2.42	38.75	32.84	5.44	34.64
AV	7.43882G	38.94	54.00	-15.06	8.23	3	Horizontal	159	1.96	30.71	36.32	6.70	34.79
PK	4.96104G	52.83	74.00	-21.17	3.64	3	Horizontal	30	2.42	49.19	32.84	5.44	34.64
PK	7.43814G	50.60	74.00	-23.40	8.23	3	Horizontal	159	1.96	42.37	36.32	6.70	34.79