

FCC Radio Test Report

FCC ID : H8NSBE1V1K
Equipment : WiFi 7 Router
Model Name : SBE1V1K
Applicant : ASKEY COMPUTER CORPORATION
10F, No.119, Jiankang Rd., Zhonghe Dist.,
New Taipei City, Taiwan
Manufacturer : ASKEY COMPUTER CORPORATION
10F, No.119, Jiankang Rd., Zhonghe Dist.,
New Taipei City, Taiwan
Standard : 47 CFR FCC Part 15.247

The product was received on Dec. 08, 2023, and testing was started from Jan. 09, 2024 and completed on Feb. 02, 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.



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 V02



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: Ann Hou

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:

- ♦ 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	Support	Radio
1	NA	N03AKBYA	PCB	I-Pex	2.4G+5G	Radio 1
2	NA	N03AKBYB	PCB	I-Pex	2.4G+5G	Radio 1
3	NA	N03AKBYC	PCB	I-Pex	2.4G+5G	Radio 1
4	NA	N03AKBYD	PCB	I-Pex	2.4G+5G	Radio 1
5	NA	N06AKBYE	PCB	I-Pex	6G	Radio 2
6	NA	N06AKBYF	PCB	I-Pex	6G	Radio 2
7	NA	N06AKBG	PCB	I-Pex	6G	Radio 2
8	NA	N06AKBYH	PCB	I-Pex	6G	Radio 2
9	NA	N01AKBYJ	PCB	I-Pex	BT+Thread	Radio 3

Ant.	Port	Gain (dBi)									BT+ Thread
		2.4G	5.2G	5.3G	5.6G	5.785G	6.175G	6.475G	6.695G	6.995G	
1	1	3.1	4.97	5.15	5.24	5.22	-	-	-	-	-
2	2	1.08	3.48	3.77	4.84	4.89	-	-	-	-	-
3	3	1.62	2.48	4.45	4.3	5.28	-	-	-	-	-
4	4	1.27	1.28	2.25	3.67	4.13	-	-	-	-	-
5	1	-	-	-	-	-	3.65	2.68	2.4	2.38	-
6	2	-	-	-	-	-	3.09	2.54	3.38	1.79	-
7	3	-	-	-	-	-	4.21	3.27	3.47	2.7	-
8	4	-	-	-	-	-	3.78	3.55	2.51	2.69	-
9	1	-	-	-	-	-	-	-	-	-	5.3

Composite Gain (dBi)									
	2.4G	5.2G	5.3G	5.6G	5.785G	6.175G	6.475G	6.695G	6.995G
DG [1SS]	3.46	5.06	5.53	5.83	6.19	6.56	6.96	6.38	5.94
DG [2SS]	3.1	4.97	5.15	5.24	5.28	4.21	3.96	3.47	2.94
DG [4SS]	3.1	4.97	5.15	5.24	5.28	4.21	3.55	3.47	2.7

Note 1: The EUT has nine antennas.

Note 2: The composite gain is derived as KDB 662911 D03 v01 which was used as directional gain. For more detail information, please refer to the Antenna Pattern Report AP3N0237.

For 2.4GHz function:

For IEEE 802.11 b/g/n/VHT/ax/be mode (4TX/4RX)

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

For 5GHz function:

For IEEE 802.11 a/n/ac/ax/be mode (4TX/4RX)

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

For 6GHz function:

For IEEE 802.11 ax/be mode (4TX/4RX)

Ant. 5 (port 1), Ant. 6 (port 2), Ant. 7 (port 3) and Ant. 8 (port 4) could transmit/receive simultaneously.

For BT function:

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

Ant. 9 (port 1) could transmit/receive.

For 802.15.4 function:

For IEEE 802.15.4 mode (1TX/1RX)

Ant. 9 (port 1) could transmit/receive.

1.1.3 EUT Information

Operational Condition	
EUT Power Type	From AC 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)
<input type="checkbox"/>	Combined Equipment - Brand Name / Model No.: ...
<input type="checkbox"/>	Plug-in radio (EUT intended for a variety of host systems)
<input type="checkbox"/>	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)	0.681	1.67	425.625u	3k
BT-LE(2Mbps)	0.388	4.11	243.125u	10k

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

1.2 Testing Applied Standards

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

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2013

The following reference test guidance is not within the scope of accreditation of TAF:

- ♦ KDB 558074 D01 v05r02
- ♦ KDB 414788 D01 v01r01

1.3 Testing Location Information

Test Lab. : Sporton International Inc. Hsinhua Laboratory				
<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	21.9~22.6°C / 54~58%	10/Jan/2024
RF Conducted	TH07-HY	Yuna Lin	22.4~23.2°C / 48~52%	09/Jan/2024~10/Jan/2024
Radiated	03CH03-HY	Ivan Chung	22.1~23.0°C / 51~53%	09/Jan/2024~10/Jan/2024
Radiated (Co-location)	03CH02-HY	Daniel Lin	21.9~22.6°C / 53~55%	01/Feb/2024~02/Feb/2024
<input 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.				
<input type="checkbox"/>	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.				

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 0.72
-----------------------	--------------------

Mode	Power Setting
BT-LE(1Mbps)	-
2402MHz	14
2440MHz	14
2480MHz	0C
BT-LE(2Mbps)	-
2402MHz	14
2440MHz	14
2480MHz	08

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	Adapter 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	Adapter mode
Operating Mode > 1GHz	CTX
Orthogonal Planes of EUT	Y Plane
	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Test Condition	Radiated measurement
Operating Mode	CTX
1	WLAN 2.4GHz + WLAN 5GHz + Bluetooth
2	WLAN 2.4GHz + WLAN 5GHz + Thread
3	WLAN 2.4GHz + WLAN 6GHz + Bluetooth
4	WLAN 2.4GHz + WLAN 6GHz + Thread
Refer to Sporton Test Report No.: FA3N0237 for Co-location RF Exposure Evaluation and Appendix G for Radiated Emission Co-location.	



2.3 Accessories

Accessories				
AC Adapter (US Plug)	Brand Name	DELTA	Model Name	RPSU3
	Power Rating	I/P: 100- 120 Vac, 1.0 A, O/P: 12.0 Vdc, 3.5 A		
	Power Cord	1.8 meter, non-shielded cable, w/o ferrite core		
RJ45 Cable [CAT. 6]	Power Cord	1.75 meter, non-shielded cable, w/o ferrite core		

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

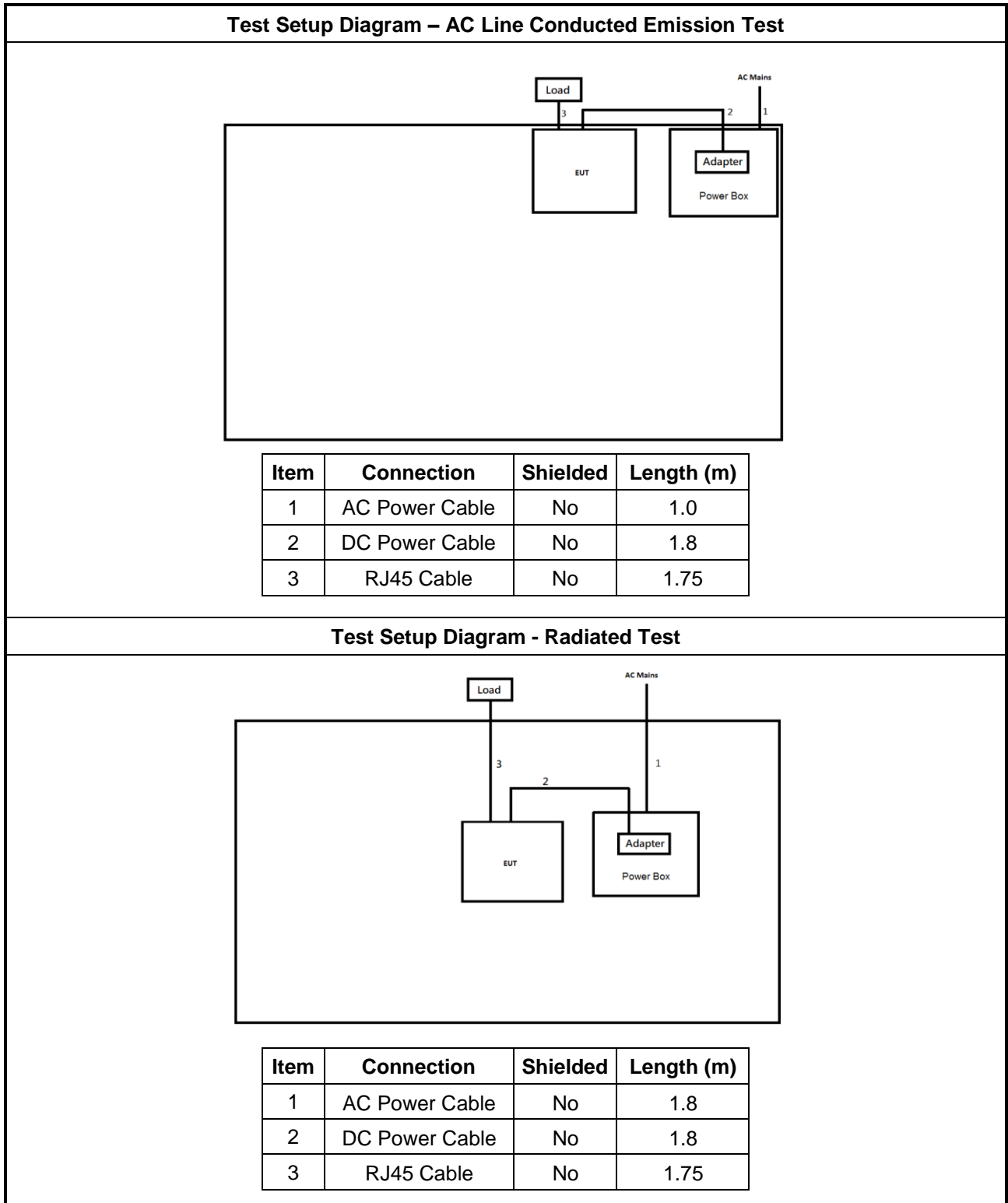
2.4 Support Equipment

Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Load	Sporton	Sporton	-	-

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

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Load	Sporton	Sporton	-	-
2	RJ45 cable	Power Sync	CAT-6E-01	-	-

2.5 Test Setup Diagram





3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: * Decreases with the logarithm of the frequency.

3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

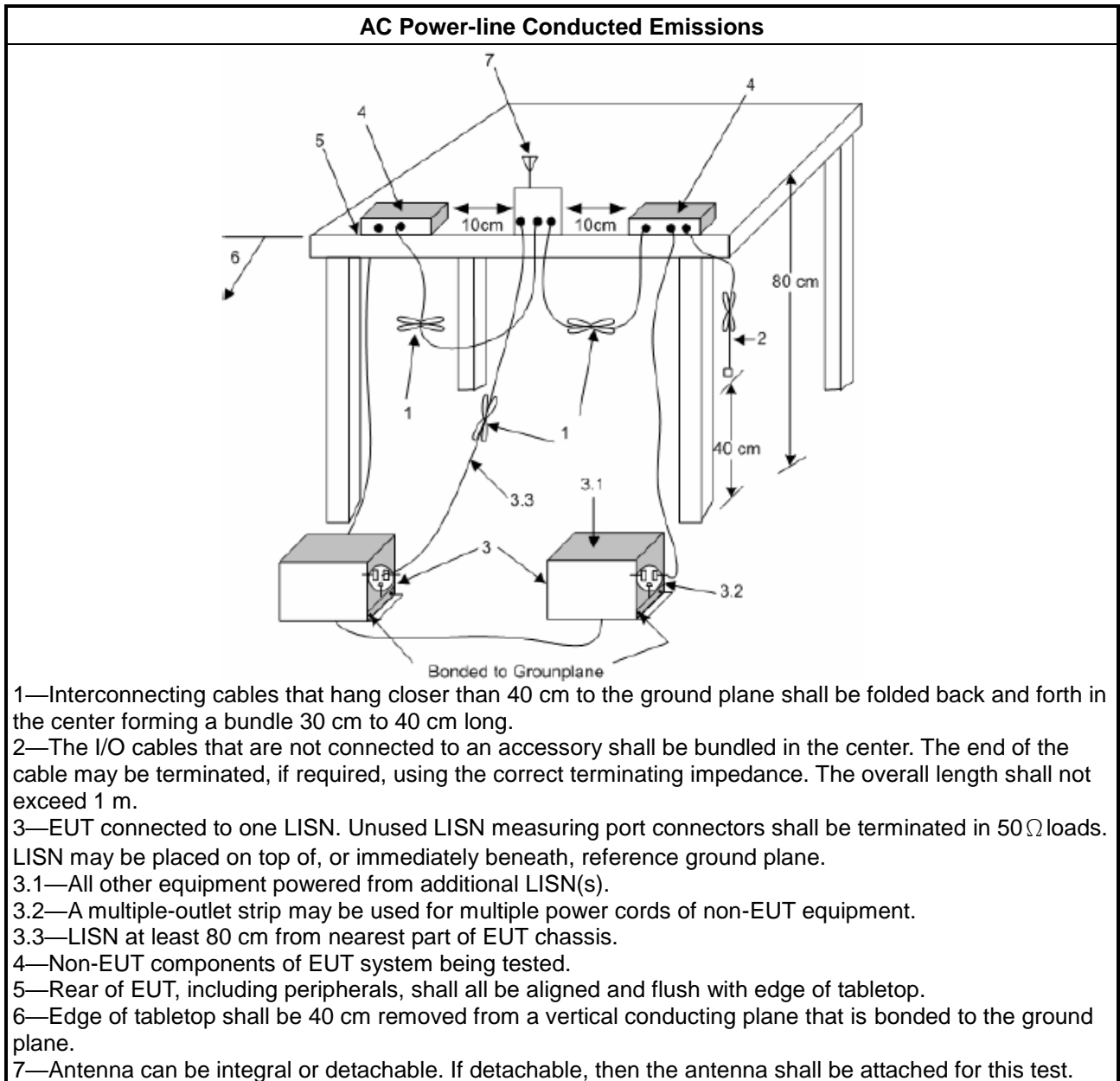
Test Method
▪ Refer as ANSI C63.10-2013, clause 6.2 foray power-line conducted emissions.

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:	
▪	6 dB bandwidth \geq 500 kHz.

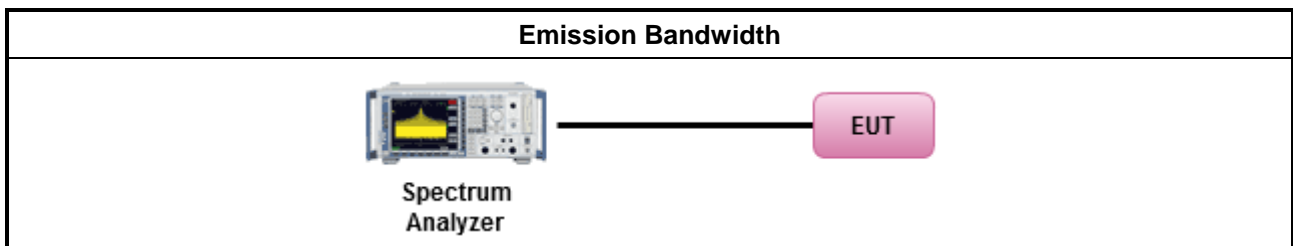
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
▪	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>P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.</p>	

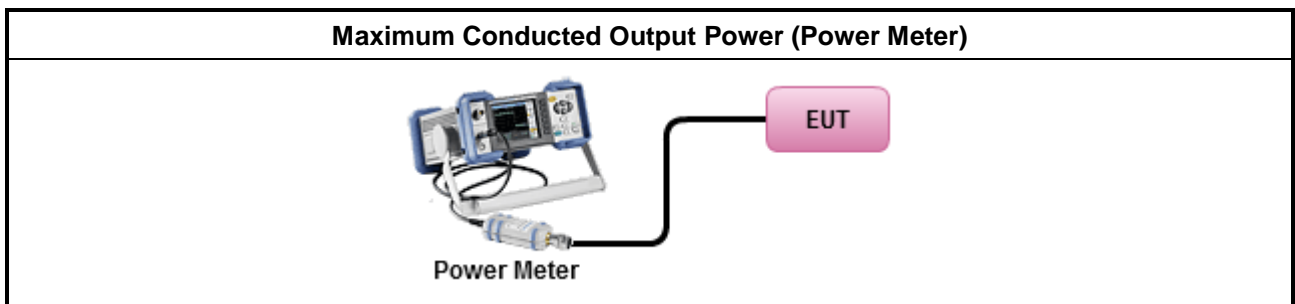
3.3.2 Measuring Instruments

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

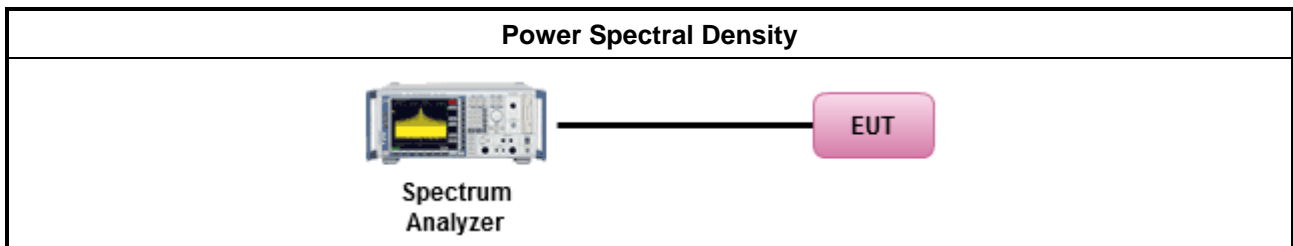
3.4.2 Measuring Instruments

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.

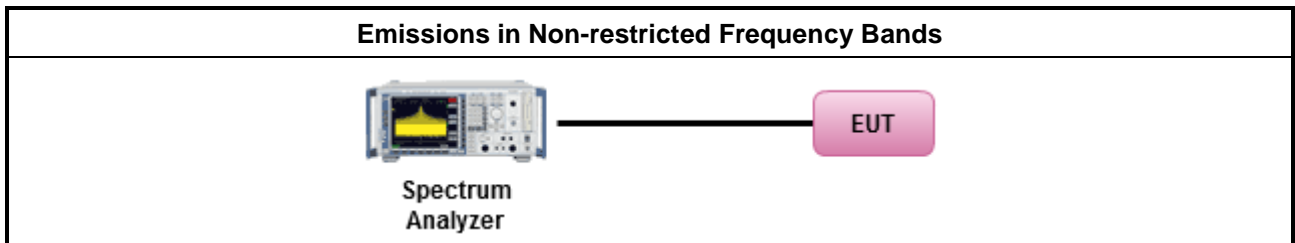
3.5.2 Measuring Instruments

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

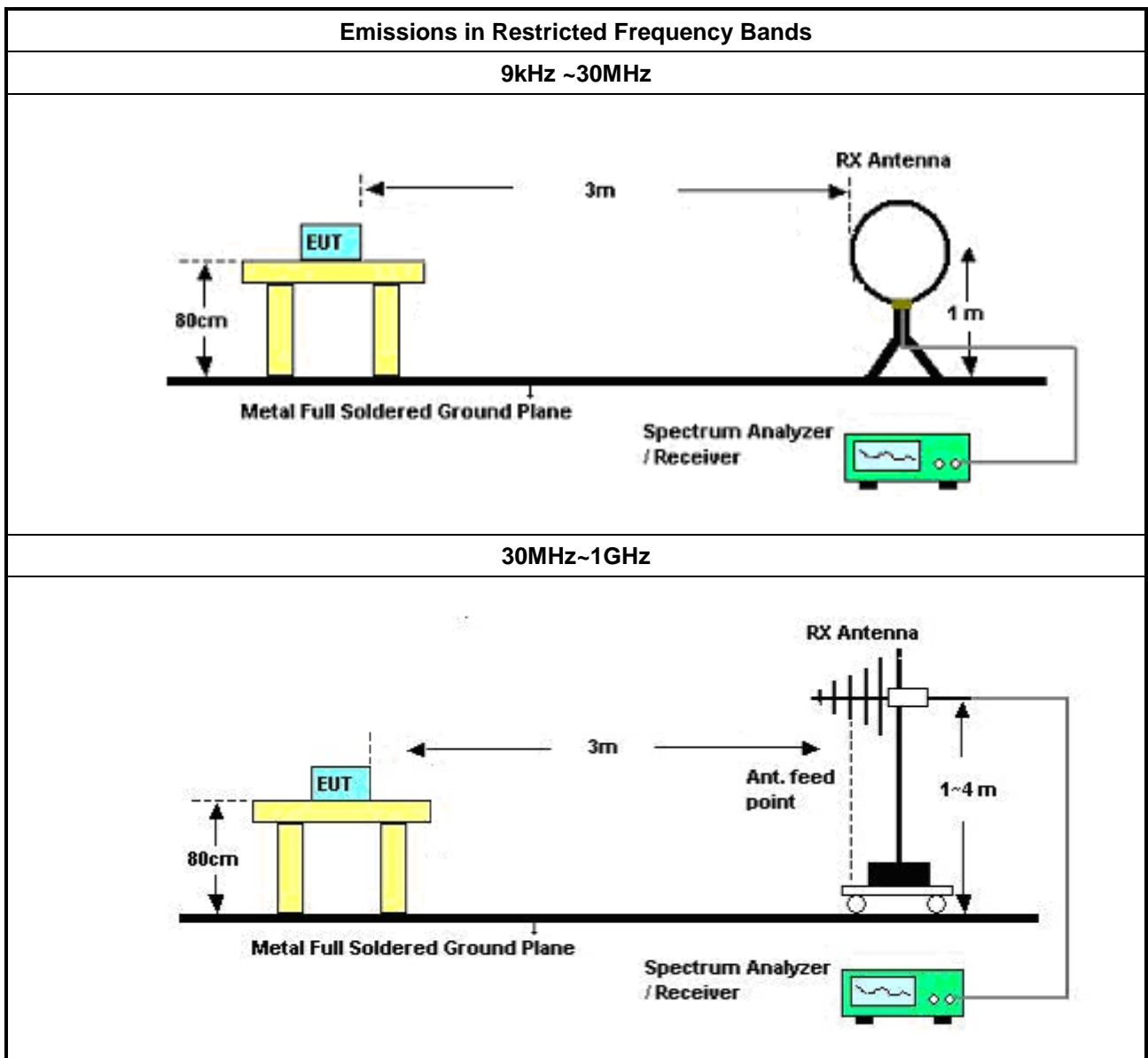
Test Method	
	<ul style="list-style-type: none"> The average emission levels shall be measured in [duty cycle \geq 98 or duty factor].
	<ul style="list-style-type: none"> Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel 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. Refer as KDB 558074, clause 8.7.2 (6.10.6 of ANSI C63.10) for marker-delta method for band-edge measurements. 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. Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ 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. Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

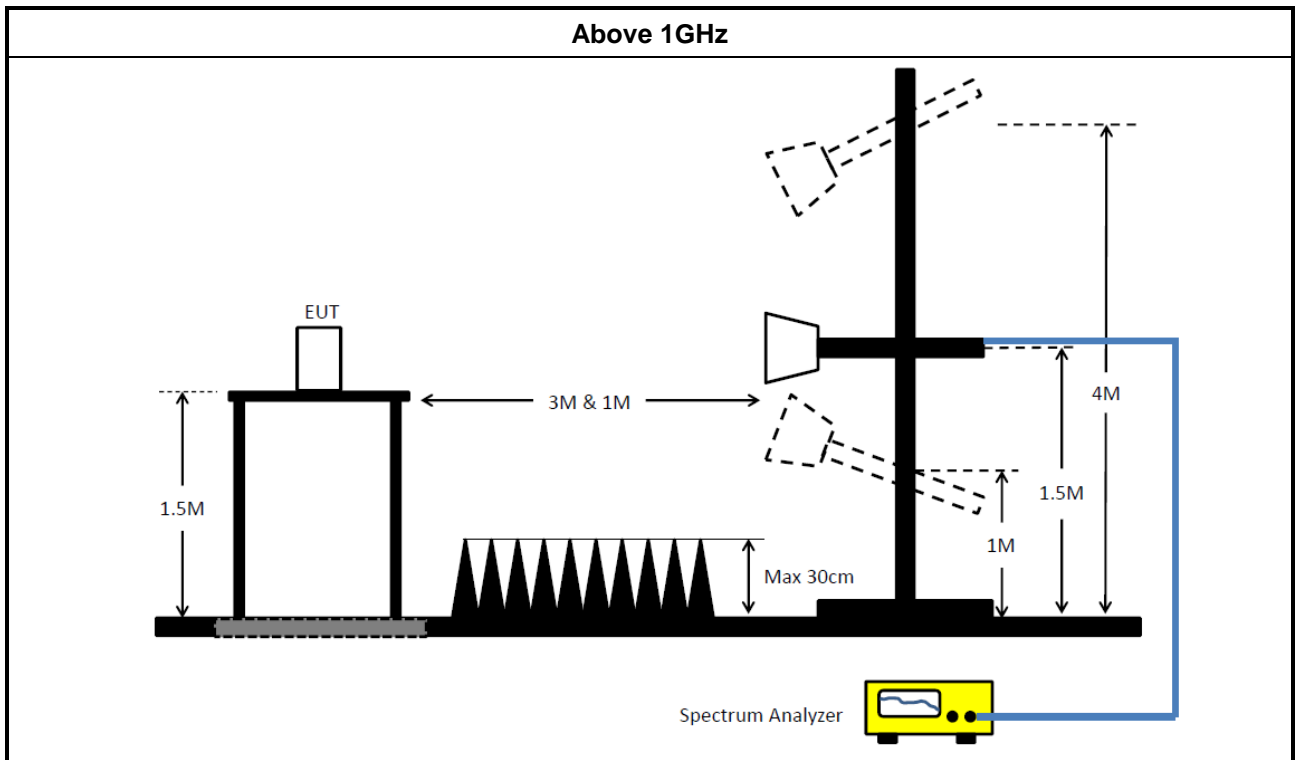
3.6.4 Measurement Results Calculation

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	101295	9kHz ~ 30MHz	31/Jan/2023	30/Jan/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	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	101515	9kHz~40GHz	14/Feb/2023	13/Feb/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	V5.11.15	N/A	N/A	N/A	N/A

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
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30MHz~1GHz 3m	30/Jul/2023	29/Jul/2024
EMI Test Receiver	R&S	ESR	102052	9kHz~3.6GHz	26/May/2023	25/May/2024
Signal Analyzer	R&S	FSV40	101500	10Hz~40GHz	26/Oct/2023	25/Oct/2024
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	23/Mar/2023	22/Mar/2024
Bilog Antenna & 6dB Attenuator	SCHAFFNER / EMCI	CBL6112B / N-6-05	22237 / AT-N-0603	30MHz~1GHz	15/Oct/2023	14/Oct/2024
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02267	1GHz~18GHz	04/Oct/2023	03/Oct/2024
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	01248	18GHz ~ 40GHz	21/Aug/2023	20/Aug/2024
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz~30MHz	13/Jun/2023	12/Jun/2024
RF Cable-R03m	Jye Bao	RG142	03CH03-cable-02	30MHz~1GHz	13/Jun/2023	12/Jun/2024
RF CABLE 5+6m	HUBER+SUHNER	SUOFLEX 104	03CH03-cable-01	1GHz~40GHz	29/Jun/2023	28/Jun/2024
Amplifier	Aglient	8447D	2944A08033	100kHz~1.3GHz	14/Sep/2023	13/Sep/2024
Microwave Prempplier	Agilent	8449B	3008A02326	1GHz~26.5GHz	26/Jul/2023	25/Jul/2024
Microwave Prempplier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~ 40GHz	16/Mar/2023	15/Mar/2024
SENSE-15247_FS	Sporton	V5.11.12	NA	NA	NA	NA



Instrument for Radiated Test (03CH02-HY)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3m	28/Jul/2023	27/Jul/2024
Signal Analyzer	R&S	FSP 40	100593	9kHz~40GHz	17/Mar/2023	16/Mar/2024
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02268	1GHz~18GHz	23/Sep/2023	22/Sep/2024
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	01248	18GHz~40GHz	21/Aug/2023	20/Aug/2024
RF Cable-R03m	HUBER+SUHNER	SUCOFLEX104	03CH02-cable-01	1GHz~40GHz	10/Feb/2023	09/Feb/2024
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz~26.5GHz	24/Oct/2023	23/Oct/2024
Amplifier	EMC INSTRUMENTS	EM18G40GA	060604	18GHz ~40GHz	16/Mar/2023	15/Mar/2024
SENSE-EMI	Sporton	V5.11.6	N/A	N/A	N/A	N/A



Summary

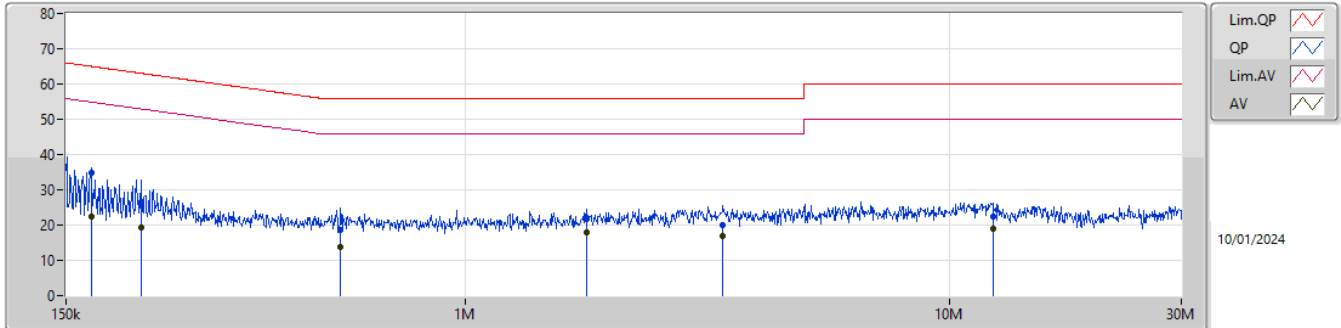
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	369.752k	23.69	48.50	-24.81	Neutral



Result

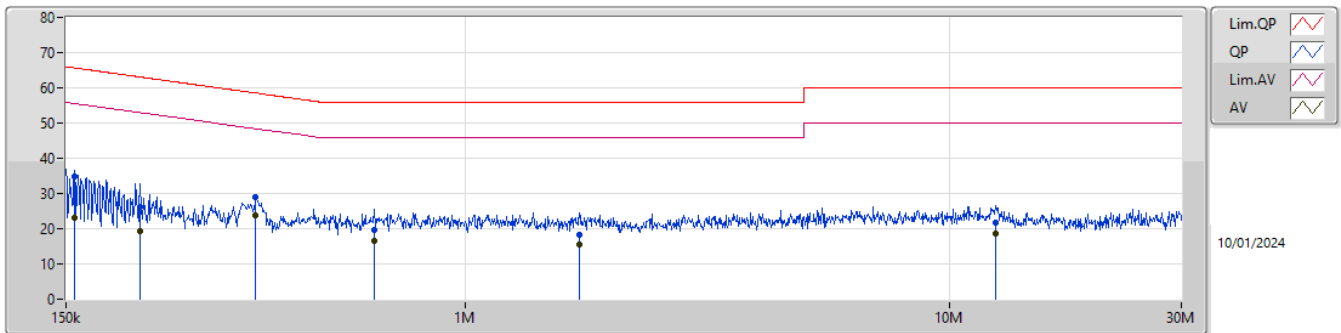
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	169.084k	34.88	65.01	-30.13	Line
Mode 1	Pass	AV	169.084k	22.49	55.01	-32.52	Line
Mode 1	Pass	QP	213.989k	26.59	63.06	-36.47	Line
Mode 1	Pass	AV	213.989k	19.43	53.06	-33.63	Line
Mode 1	Pass	QP	553.37k	18.45	56.00	-37.55	Line
Mode 1	Pass	AV	553.37k	13.86	46.00	-32.14	Line
Mode 1	Pass	QP	1.782M	21.73	56.00	-34.27	Line
Mode 1	Pass	AV	1.782M	17.88	46.00	-28.12	Line
Mode 1	Pass	QP	3.403M	19.85	56.00	-36.15	Line
Mode 1	Pass	AV	3.403M	16.94	46.00	-29.06	Line
Mode 1	Pass	QP	12.257M	22.55	60.00	-37.45	Line
Mode 1	Pass	AV	12.257M	18.90	50.00	-31.10	Line
Mode 1	Pass	QP	156.109k	35.00	65.67	-30.67	Neutral
Mode 1	Pass	AV	156.109k	23.21	55.67	-32.46	Neutral
Mode 1	Pass	QP	213.137k	26.33	63.07	-36.74	Neutral
Mode 1	Pass	AV	213.137k	19.48	53.07	-33.59	Neutral
Mode 1	Pass	QP	369.752k	28.83	58.50	-29.67	Neutral
Mode 1	Pass	AV	369.752k	23.69	48.50	-24.81	Neutral
Mode 1	Pass	QP	649.178k	19.58	56.00	-36.42	Neutral
Mode 1	Pass	AV	649.178k	16.66	46.00	-29.34	Neutral
Mode 1	Pass	QP	1.719M	18.12	56.00	-37.88	Neutral
Mode 1	Pass	AV	1.719M	15.37	46.00	-30.63	Neutral
Mode 1	Pass	QP	12.404M	21.85	60.00	-38.15	Neutral
Mode 1	Pass	AV	12.404M	18.59	50.00	-31.41	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	169.084k	34.88	65.01	-30.13	19.35	Line	-	15.53	9.59	0.03	9.73
AV	169.084k	22.49	55.01	-32.52	19.35	Line	-	3.14	9.59	0.03	9.73
QP	213.989k	26.59	63.06	-36.47	19.31	Line	-	7.28	9.59	0.03	9.69
AV	213.989k	19.43	53.06	-33.63	19.31	Line	-	0.12	9.59	0.03	9.69
QP	553.37k	18.45	56.00	-37.55	19.41	Line	-	-0.96	9.60	0.04	9.77
AV	553.37k	13.86	46.00	-32.14	19.41	Line	-	-5.55	9.60	0.04	9.77
QP	1.782M	21.73	56.00	-34.27	19.52	Line	-	2.21	9.64	0.08	9.80
AV	1.782M	17.88	46.00	-28.12	19.52	Line	-	-1.64	9.64	0.08	9.80
QP	3.403M	19.85	56.00	-36.15	19.57	Line	-	0.28	9.66	0.12	9.79
AV	3.403M	16.94	46.00	-29.06	19.57	Line	-	-2.63	9.66	0.12	9.79
QP	12.257M	22.55	60.00	-37.45	19.74	Line	-	2.81	9.72	0.21	9.81
AV	12.257M	18.90	50.00	-31.10	19.74	Line	-	-0.84	9.72	0.21	9.81

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	156.109k	33.00	65.67	-30.67	19.38	Neutral	-	15.62	9.60	0.03	9.75
AV	156.109k	23.21	55.67	-32.46	19.38	Neutral	-	3.83	9.60	0.03	9.75
QP	213.137k	26.33	63.07	-36.74	19.32	Neutral	-	7.01	9.60	0.03	9.69
AV	213.137k	19.48	53.07	-33.59	19.32	Neutral	-	0.16	9.60	0.03	9.69
QP	369.752k	28.83	58.50	-29.67	19.39	Neutral	-	9.44	9.60	0.04	9.75
AV	369.752k	23.69	48.50	-24.81	19.39	Neutral	-	4.30	9.60	0.04	9.75
QP	649.178k	19.58	56.00	-36.42	19.44	Neutral	-	0.14	9.61	0.05	9.78
AV	649.178k	16.66	46.00	-29.34	19.44	Neutral	-	-2.78	9.61	0.05	9.78
QP	1.719M	18.12	56.00	-37.88	19.49	Neutral	-	-1.37	9.62	0.07	9.80
AV	1.719M	15.37	46.00	-30.63	19.49	Neutral	-	-4.12	9.62	0.07	9.80
QP	12.404M	21.85	60.00	-38.15	19.73	Neutral	-	2.12	9.71	0.21	9.81
AV	12.404M	18.59	50.00	-31.41	19.73	Neutral	-	-1.14	9.71	0.21	9.81



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)	656.25k	1.027M	1M03F1D	610k	1.014M
BT-LE(2Mbps)	1.243M	2.071M	2M07F1D	1.113M	2.019M

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	612.5k	1.026M
2440MHz	Pass	500k	656.25k	1.014M
2480MHz	Pass	500k	610k	1.027M
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	500k	1.243M	2.056M
2440MHz	Pass	500k	1.113M	2.071M
2480MHz	Pass	500k	1.228M	2.019M

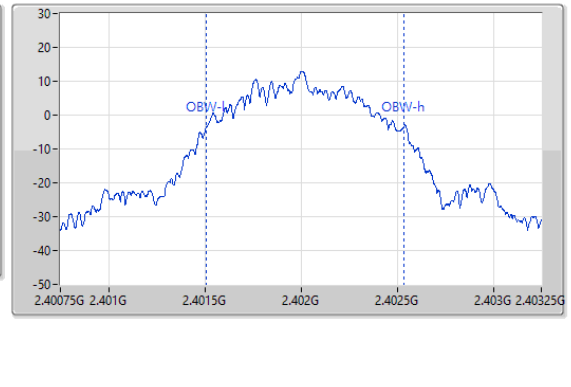
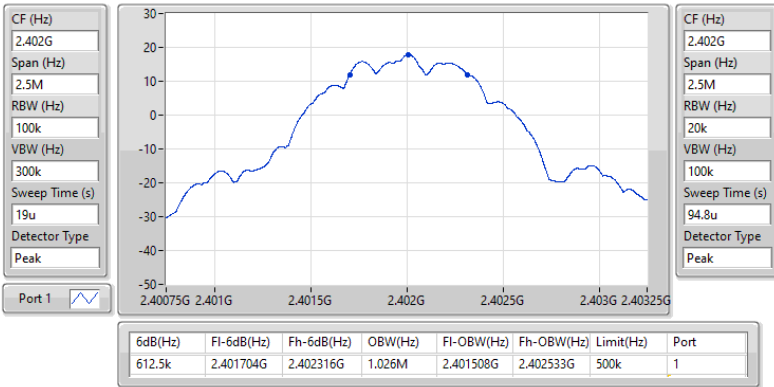
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_BT-LE(1Mbps)

EBW-DTS

2402MHz

09/01/2024

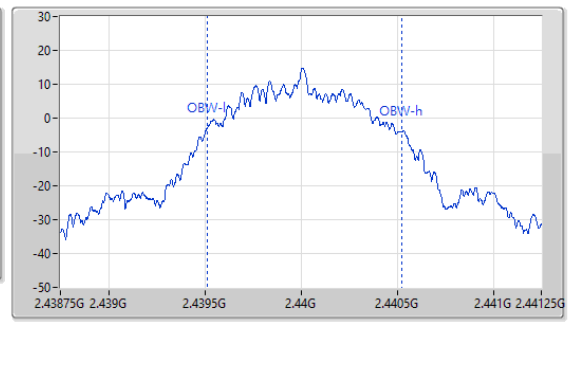
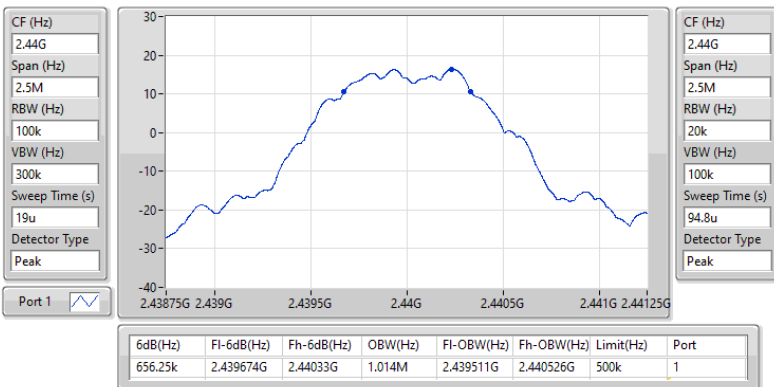


2.4-2.4835GHz_BT-LE(1Mbps)

EBW-DTS

2440MHz

09/01/2024

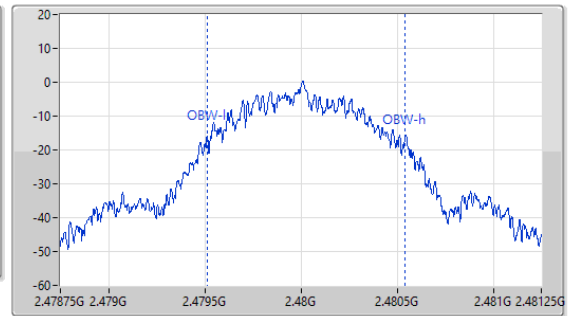
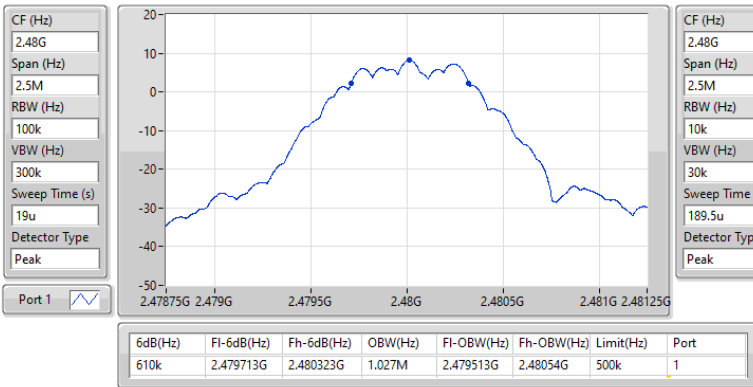


2.4-2.4835GHz_BT-LE(1Mbps)

EBW-DTS

2480MHz

10/01/2024

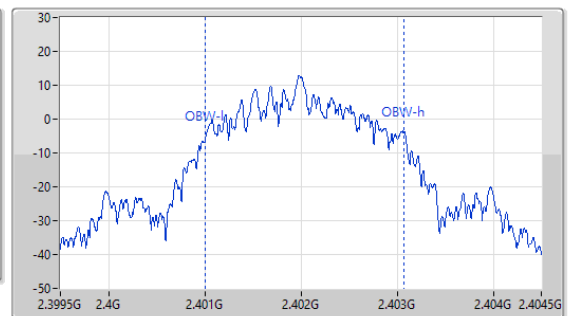
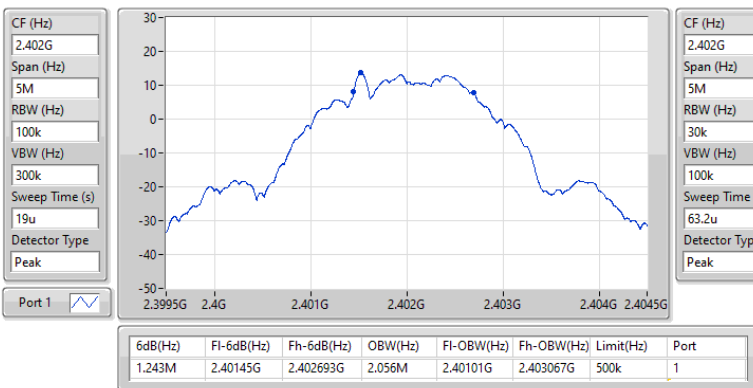


2.4-2.4835GHz_BT-LE(2Mbps)

EBW-DTS

2402MHz

09/01/2024

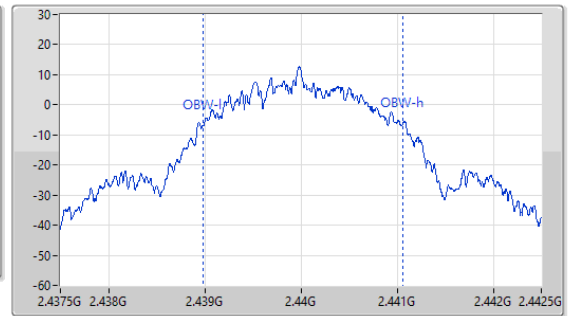
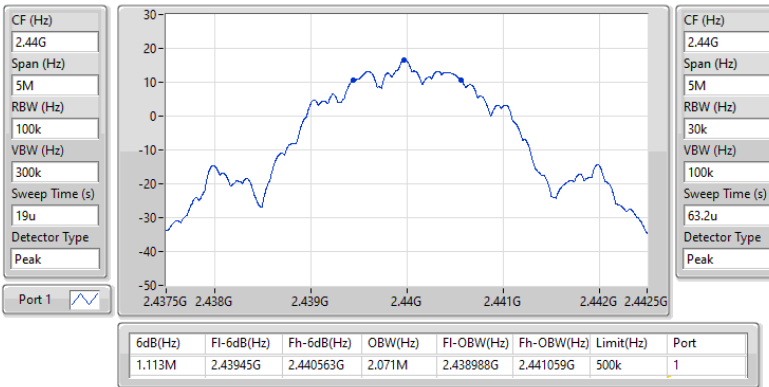


2.4-2.4835GHz_BT-LE(2Mbps)

EBW-DTS

2440MHz

09/01/2024

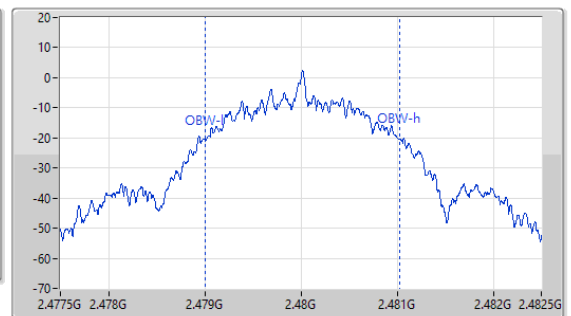
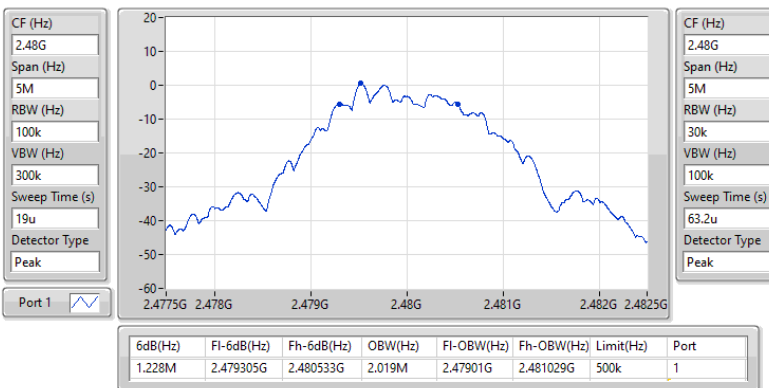


2.4-2.4835GHz_BT-LE(2Mbps)

EBW-DTS

2480MHz

10/01/2024





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	18.20	0.06607
BT-LE(2Mbps)	17.76	0.05970



Result

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	5.30	18.20	30.00
2440MHz	Pass	5.30	18.17	30.00
2480MHz	Pass	5.30	8.57	30.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	5.30	17.76	30.00
2440MHz	Pass	5.30	17.73	30.00
2480MHz	Pass	5.30	4.20	30.00

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



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
BT-LE(1Mbps)	2.86
BT-LE(2Mbps)	2.38

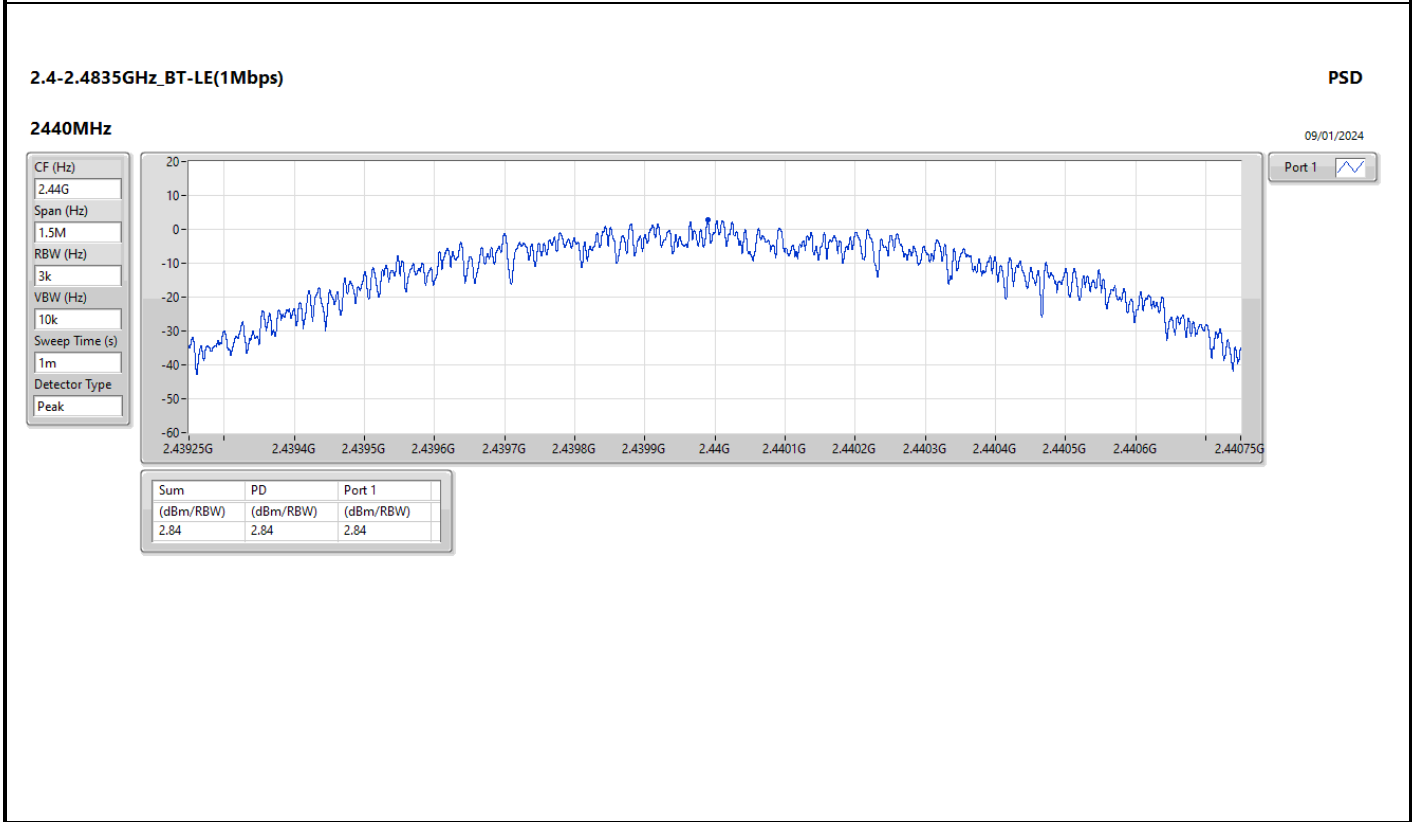
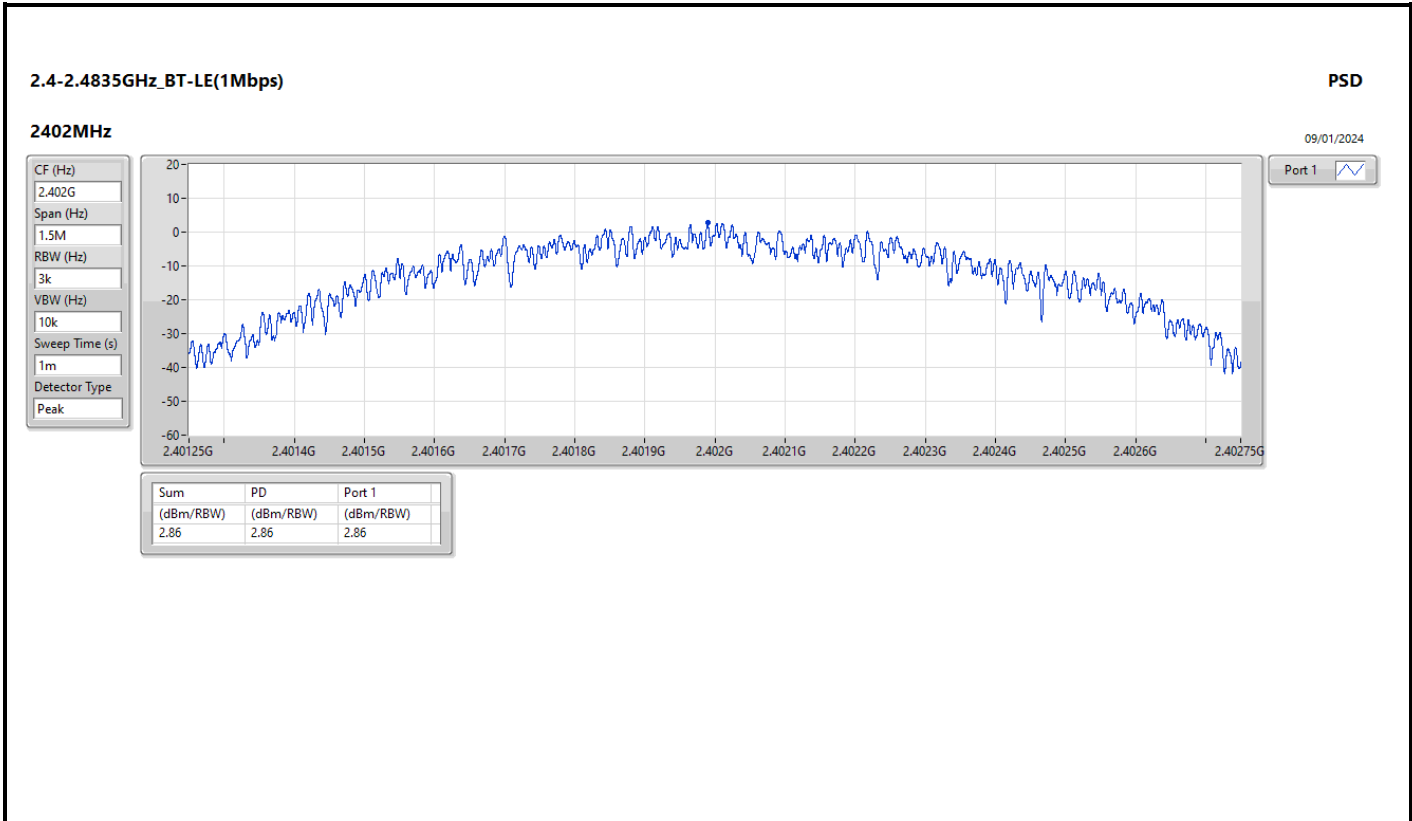
RBW = 3kHz;

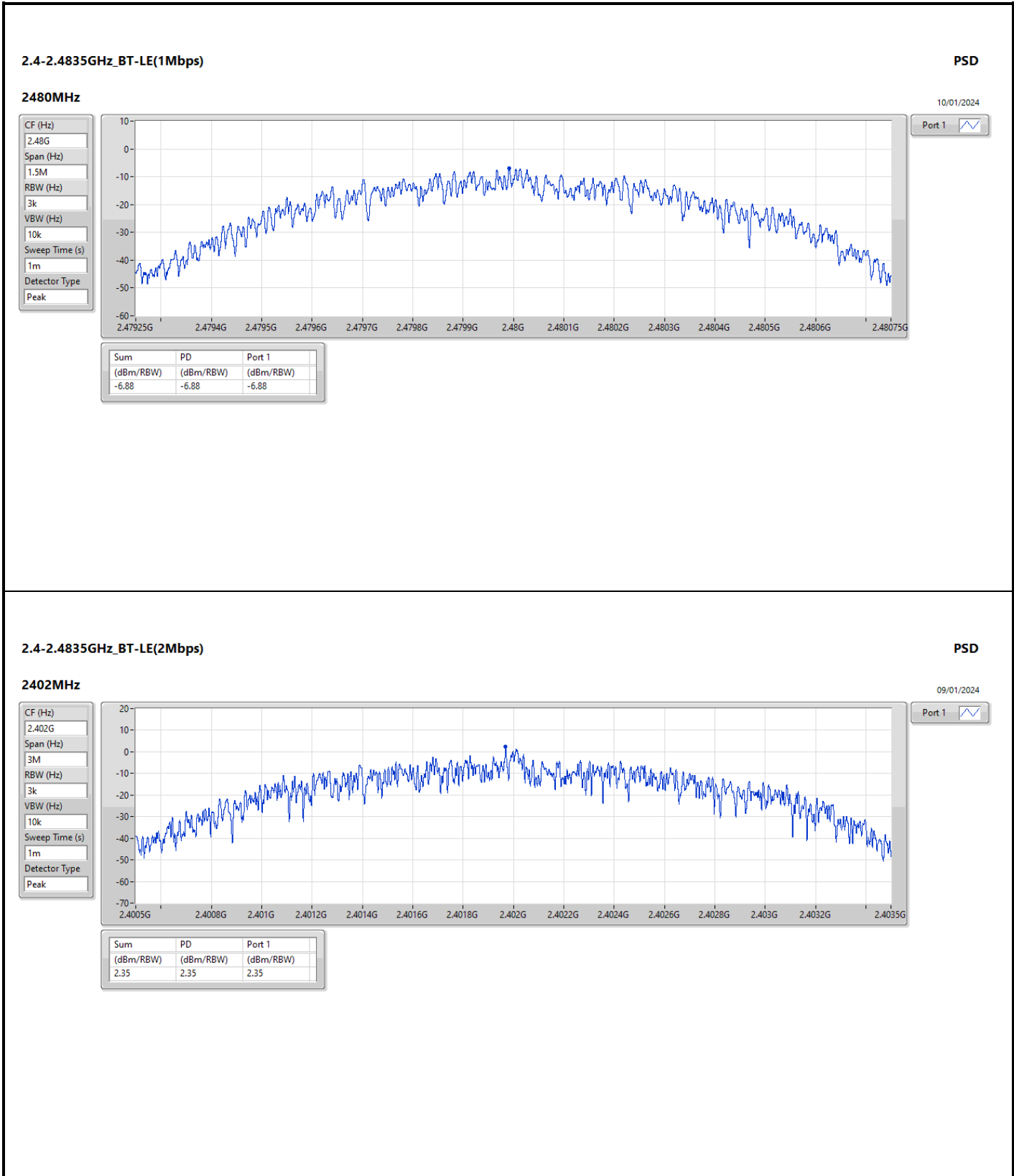


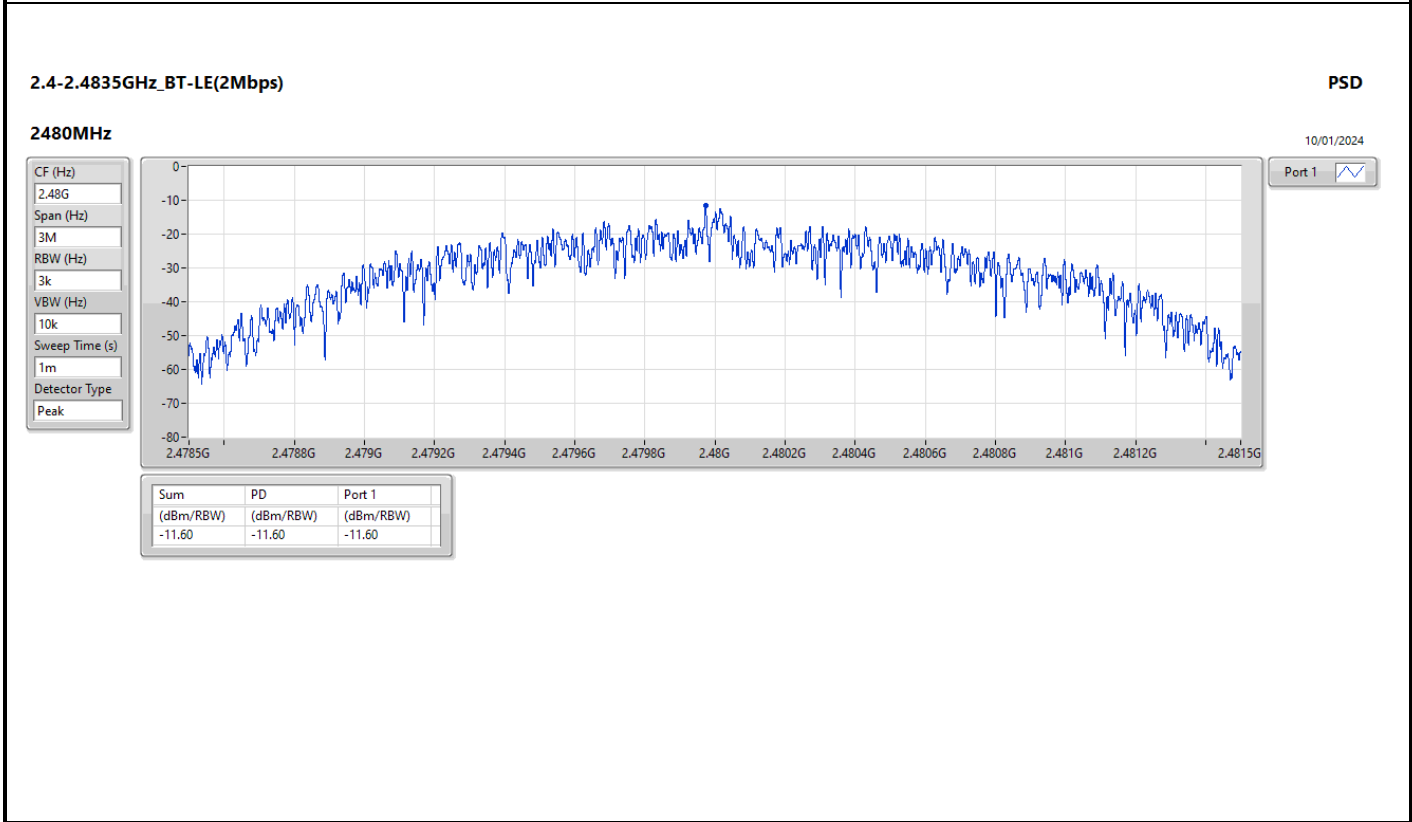
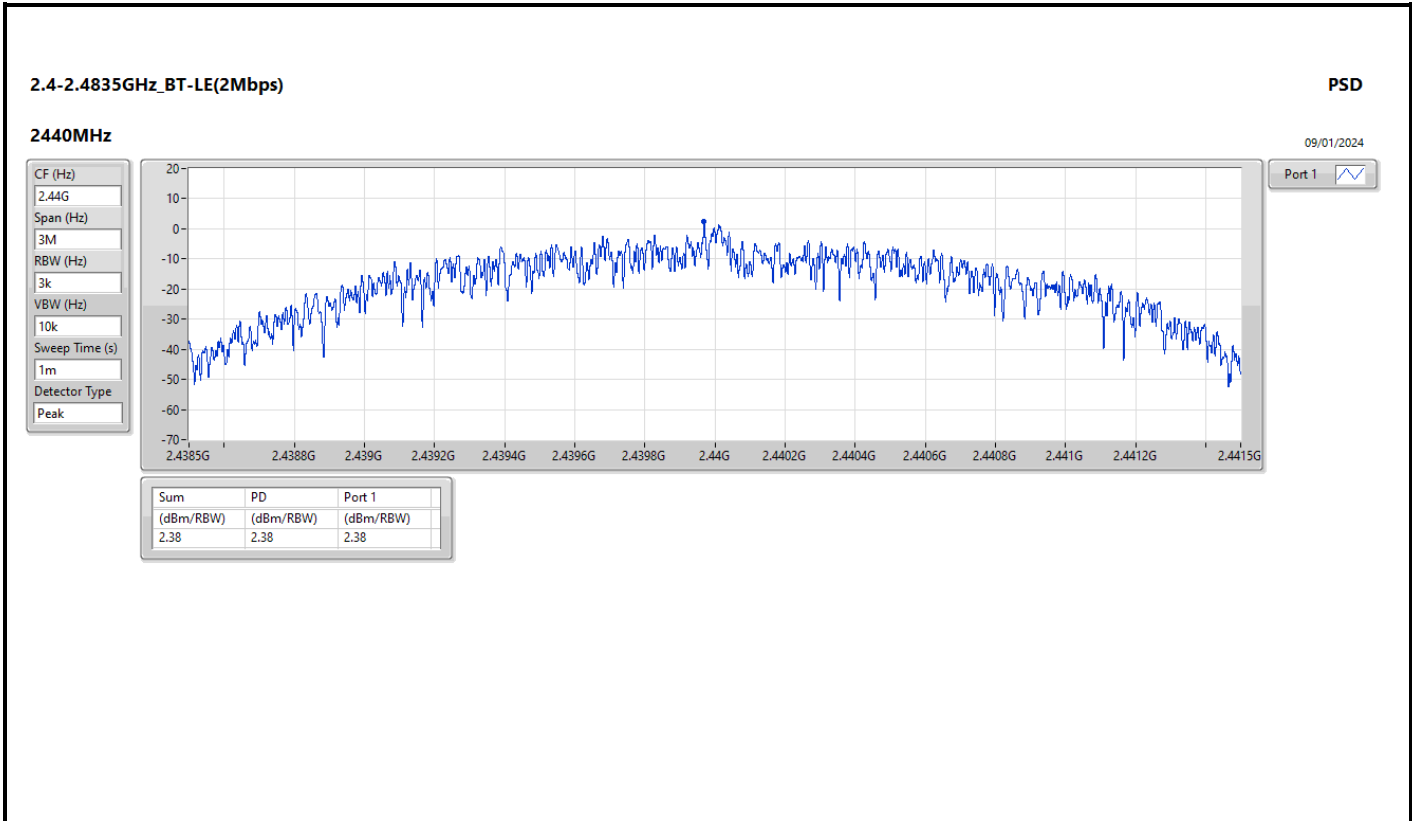
Result

Mode	Result	DG (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	5.30	2.86	8.00
2440MHz	Pass	5.30	2.84	8.00
2480MHz	Pass	5.30	-6.88	8.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	5.30	2.35	8.00
2440MHz	Pass	5.30	2.38	8.00
2480MHz	Pass	5.30	-11.60	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;









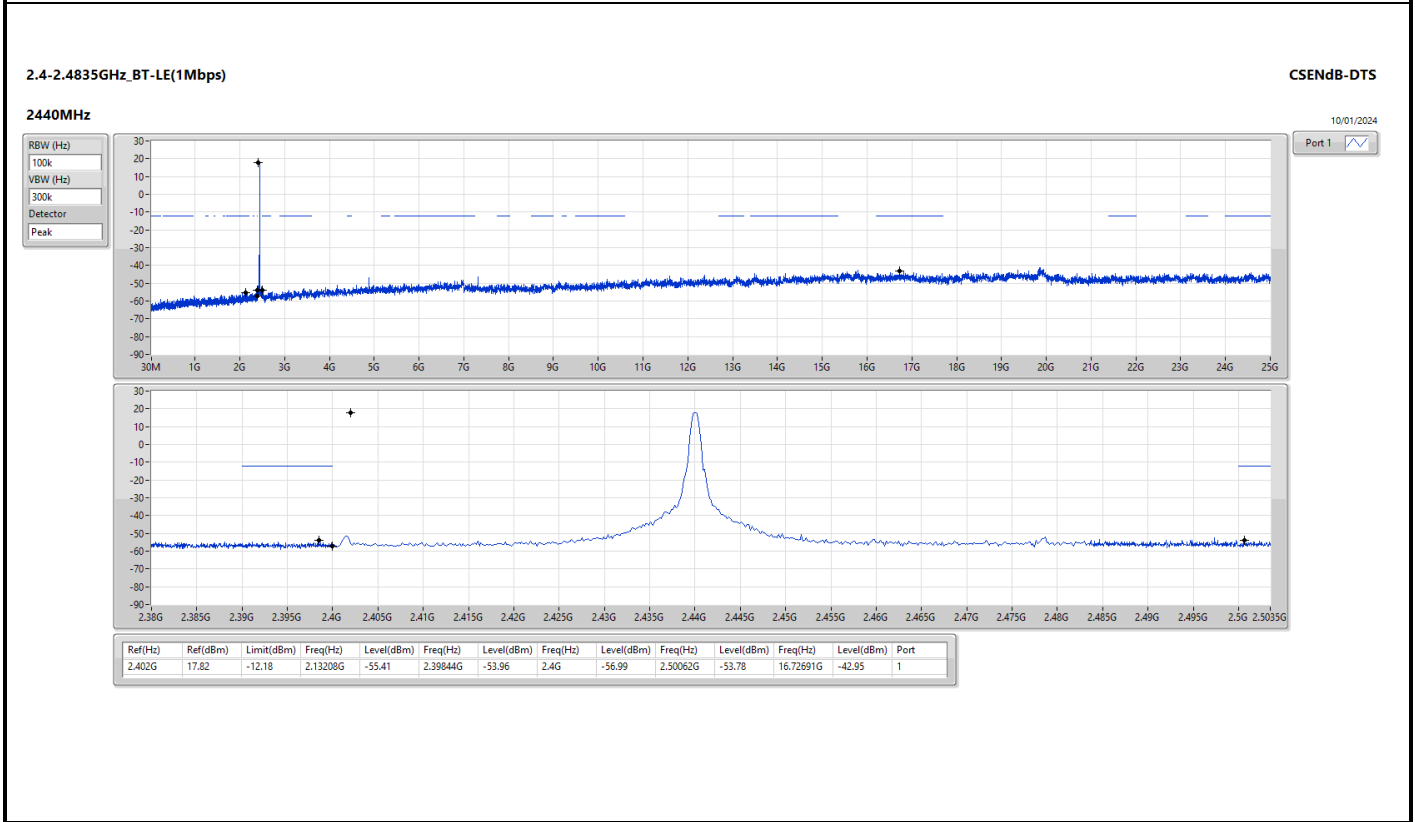
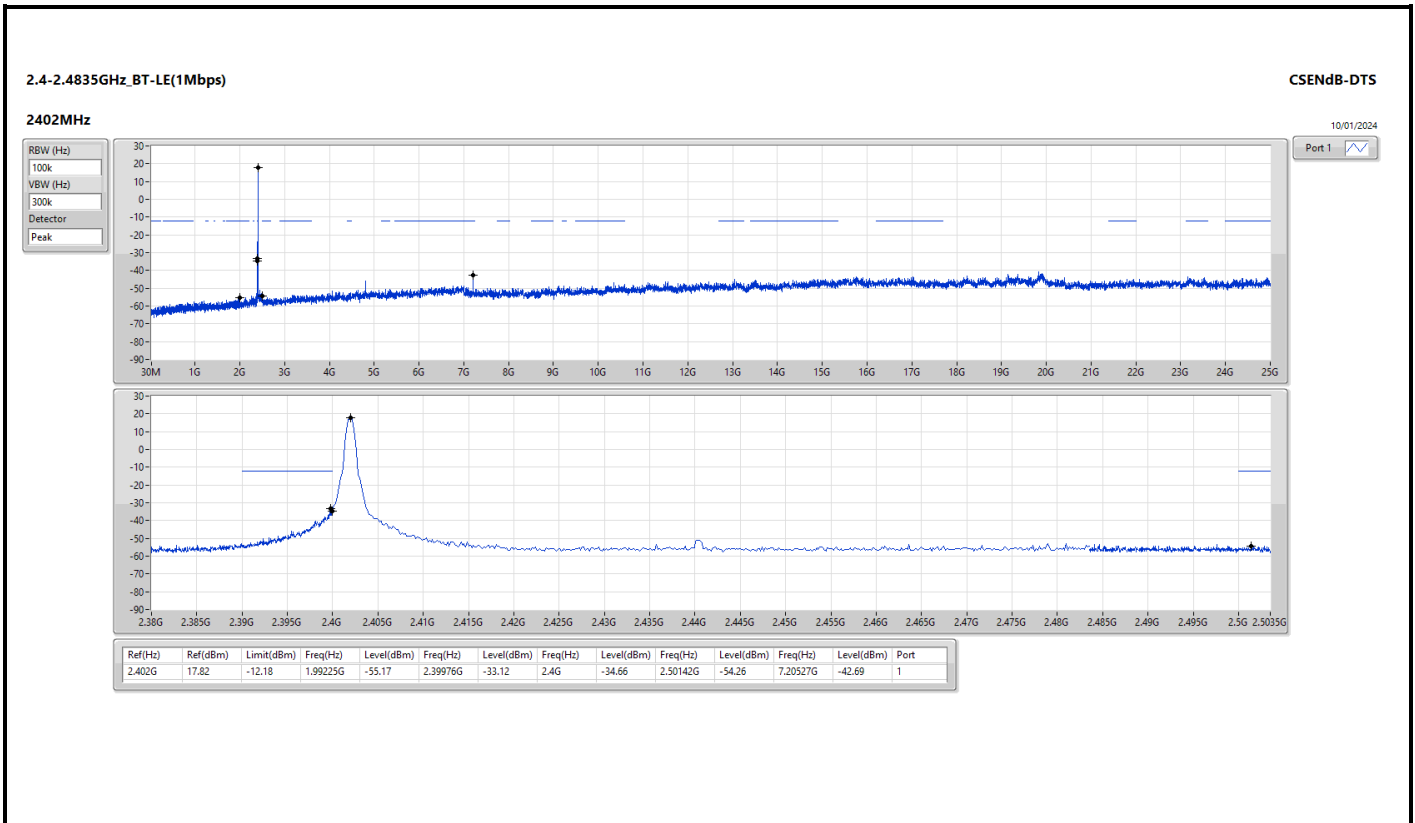
Summary

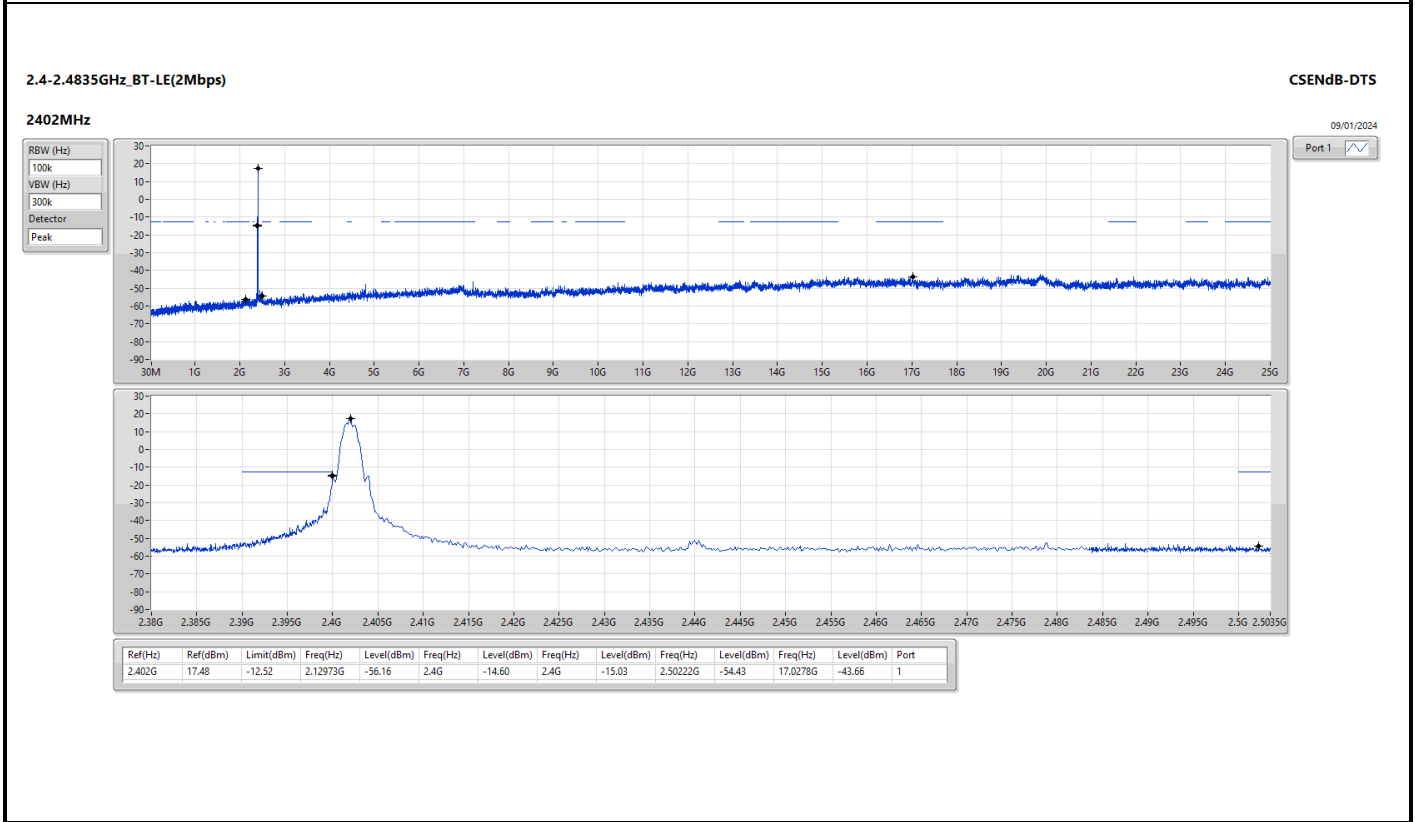
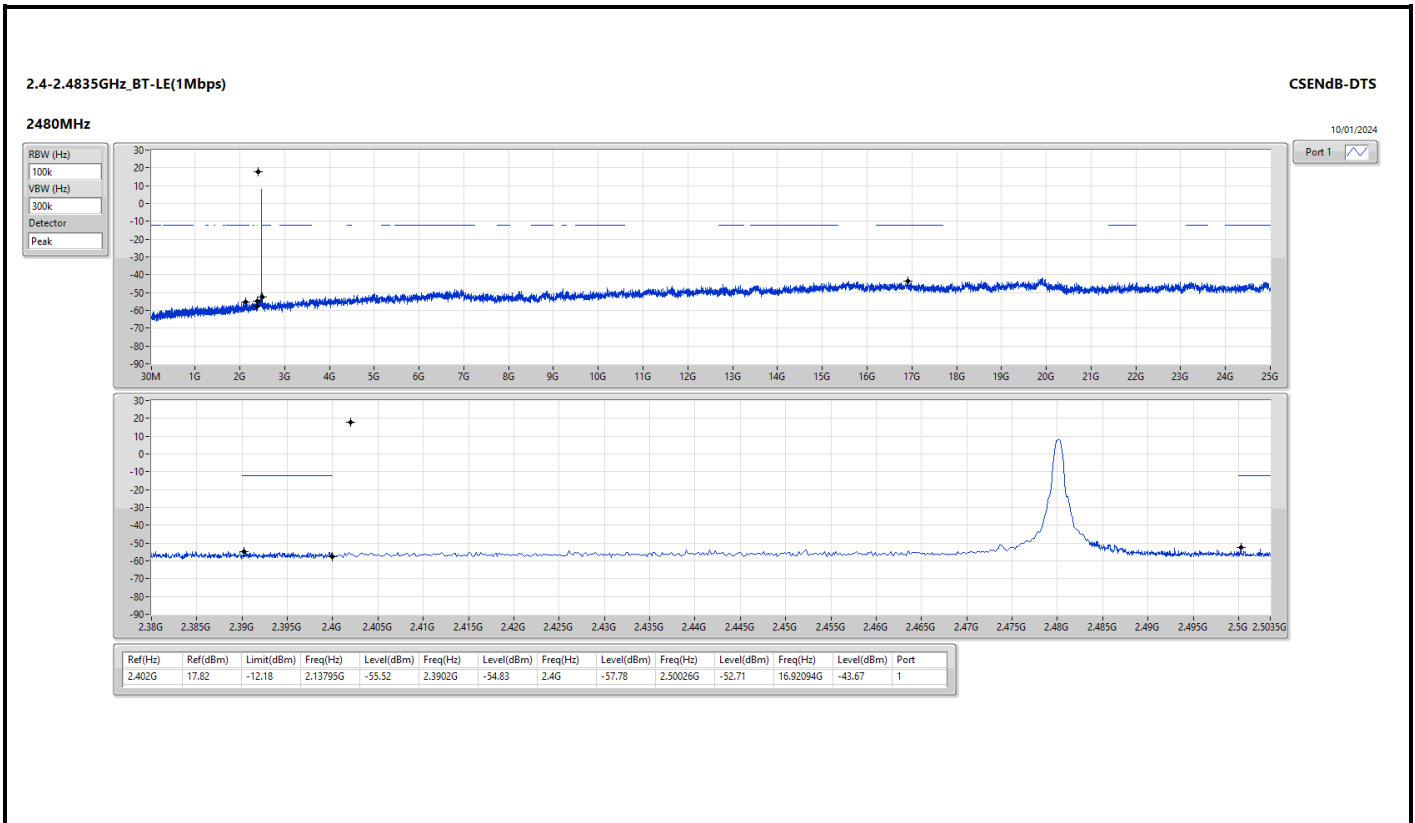
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	2.402G	17.82	-12.18	1.99225G	-55.17	2.39976G	-33.12	2.4G	-34.66	2.50142G	-54.26	7.20527G	-42.69	1
BT-LE(2Mbps)	Pass	2.402G	17.48	-12.52	2.12973G	-56.16	2.4G	-14.60	2.4G	-15.03	2.50222G	-54.43	17.0278G	-43.66	1

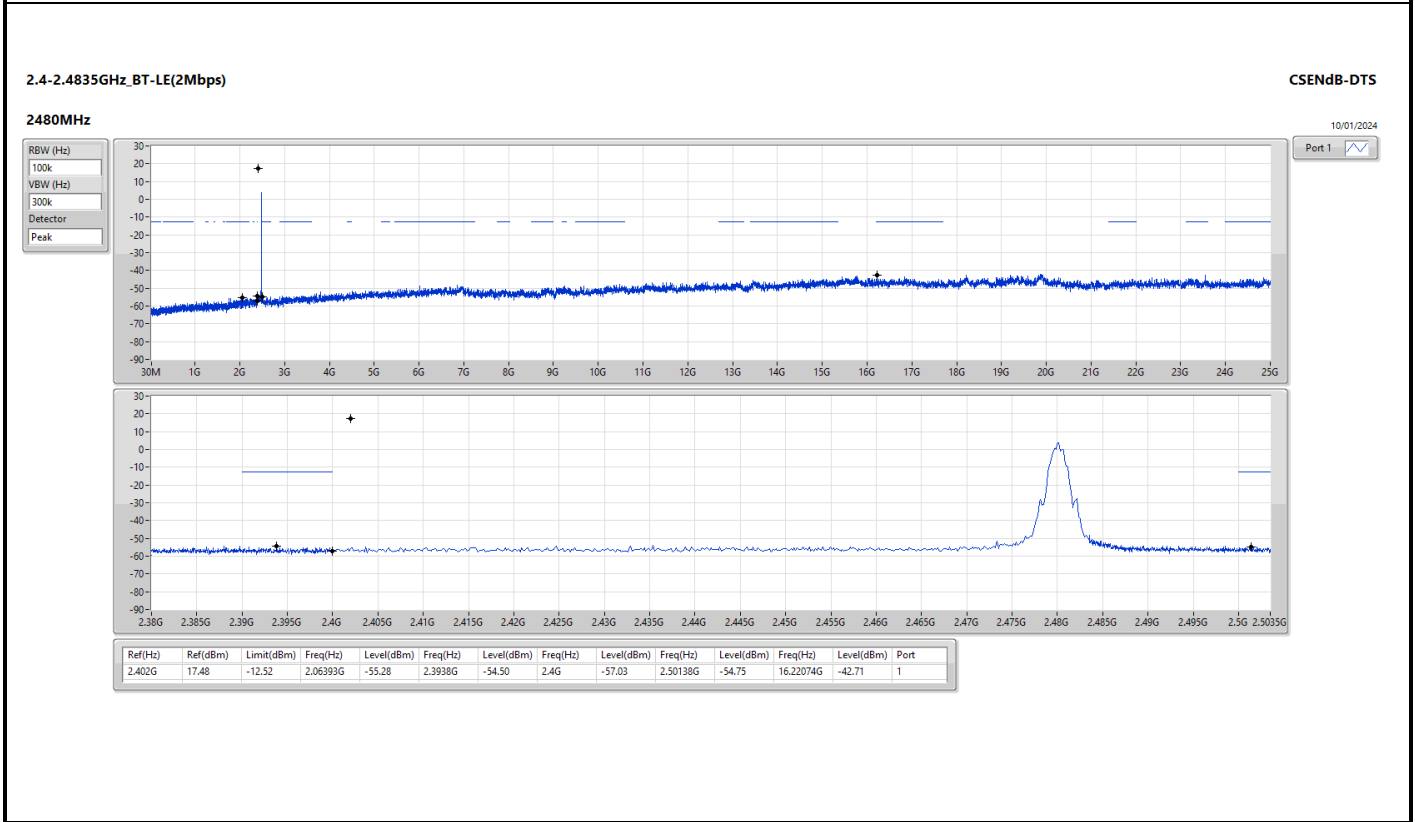
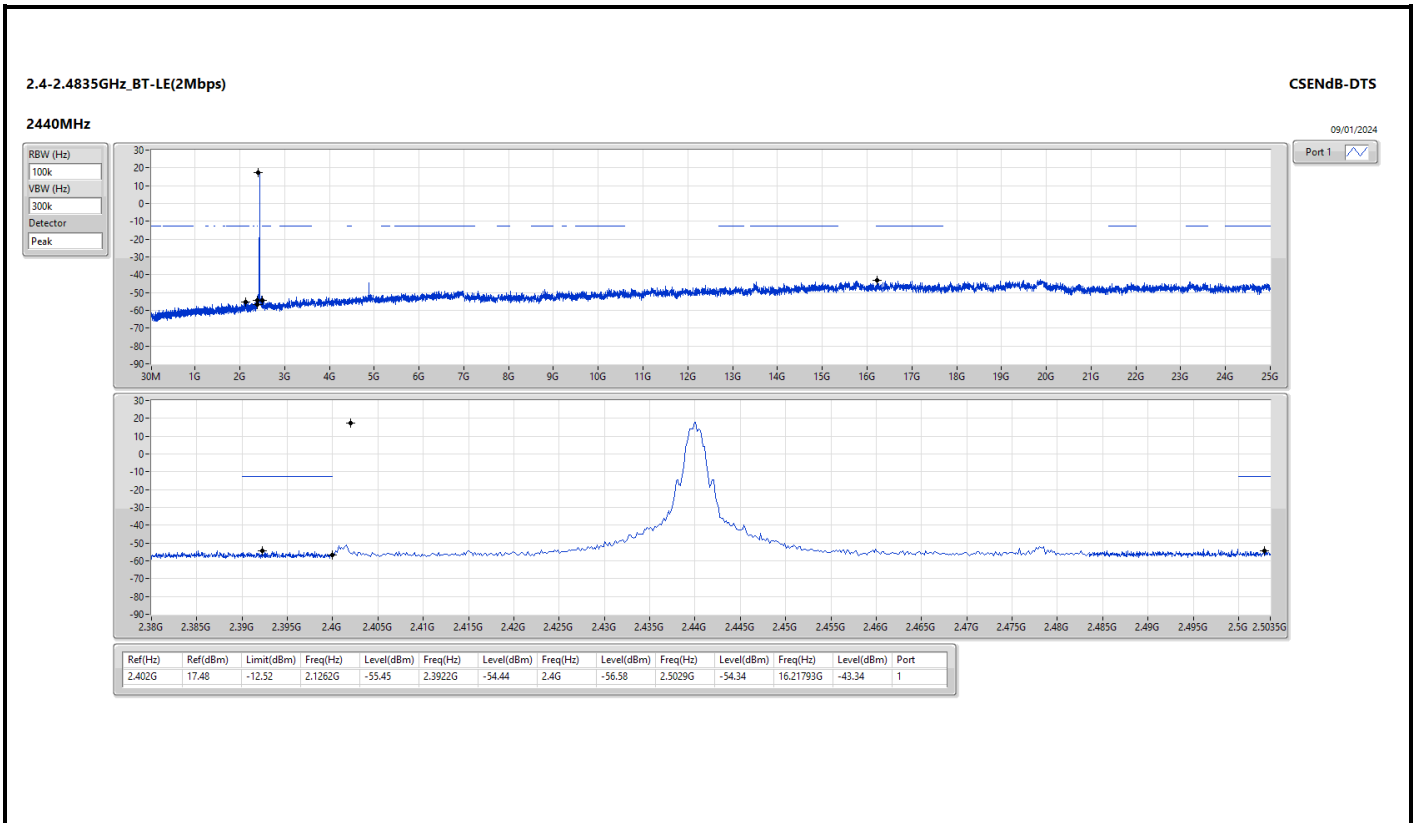


Result

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	2.402G	17.82	-12.18	1.99225G	-55.17	2.39976G	-33.12	2.4G	-34.66	2.50142G	-54.26	7.20527G	-42.69	1
2440MHz	Pass	2.402G	17.82	-12.18	2.13208G	-55.41	2.39844G	-53.96	2.4G	-56.99	2.50062G	-53.78	16.72691G	-42.95	1
2480MHz	Pass	2.402G	17.82	-12.18	2.13795G	-55.52	2.3902G	-54.83	2.4G	-57.78	2.50026G	-52.71	16.92094G	-43.67	1
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.402G	17.48	-12.52	2.12973G	-56.16	2.4G	-14.60	2.4G	-15.03	2.50222G	-54.43	17.0278G	-43.66	1
2440MHz	Pass	2.402G	17.48	-12.52	2.1262G	-55.45	2.3922G	-54.44	2.4G	-56.58	2.5029G	-54.34	16.21793G	-43.34	1
2480MHz	Pass	2.402G	17.48	-12.52	2.06393G	-55.28	2.3938G	-54.50	2.4G	-57.03	2.50138G	-54.75	16.22074G	-42.71	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	43.58M	35.26	40.00	-4.74	3	Vertical	360	1.00

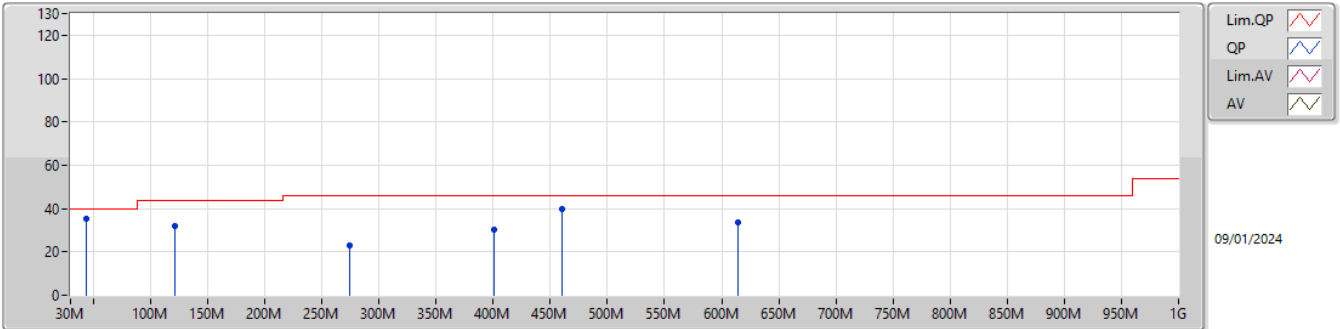


Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	PK	43.58M	35.26	40.00	-4.74	3	Vertical	360	1.00
2440MHz	Pass	PK	121.18M	32.20	43.50	-11.30	3	Vertical	360	1.00
2440MHz	Pass	PK	274.44M	22.82	46.00	-23.18	3	Vertical	360	1.00
2440MHz	Pass	PK	400.54M	29.99	46.00	-16.01	3	Vertical	360	1.00
2440MHz	Pass	PK	460.68M	39.51	46.00	-6.49	3	Vertical	360	1.00
2440MHz	Pass	PK	613.94M	33.53	46.00	-12.47	3	Vertical	360	1.00
2440MHz	Pass	PK	41.64M	25.51	40.00	-14.49	3	Horizontal	0	1.00
2440MHz	Pass	PK	130.88M	25.93	43.50	-17.57	3	Horizontal	0	1.00
2440MHz	Pass	PK	185.2M	28.67	43.50	-14.83	3	Horizontal	0	1.00
2440MHz	Pass	PK	355.92M	25.44	46.00	-20.56	3	Horizontal	0	1.00
2440MHz	Pass	PK	402.48M	28.34	46.00	-17.66	3	Horizontal	0	1.00
2440MHz	Pass	PK	460.68M	35.60	46.00	-10.40	3	Horizontal	0	1.00

2.4-2.4835GHz_BT-LE(2Mbps)

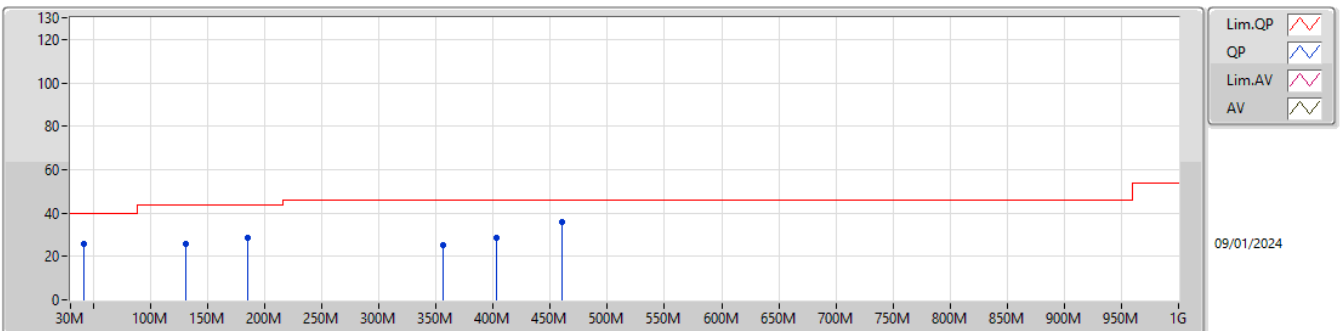
2440MHz_Adapter



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	43.58M	35.26	40.00	-4.74	-10.32	3	Vertical	360	1.00	45.58	16.18	1.07	27.57
PK	121.18M	32.20	43.50	-11.30	-8.08	3	Vertical	360	1.00	40.28	17.45	1.83	27.36
PK	274.44M	22.82	46.00	-23.18	-6.32	3	Vertical	360	1.00	29.14	17.92	2.77	27.01
PK	400.54M	29.99	46.00	-16.01	-3.02	3	Vertical	360	1.00	33.01	21.01	3.37	27.40
PK	460.68M	39.51	46.00	-6.49	-1.61	3	Vertical	360	1.00	41.12	22.56	3.67	27.84
PK	613.94M	33.53	46.00	-12.47	0.37	3	Vertical	360	1.00	33.16	24.13	4.39	28.15

2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_Adapter



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	41.64M	25.51	40.00	-14.49	-9.31	3	Horizontal	0	1.00	34.82	17.22	1.04	27.57
PK	130.88M	25.93	43.50	-17.57	-8.30	3	Horizontal	0	1.00	34.23	17.14	1.89	27.33
PK	185.2M	28.67	43.50	-14.83	-10.59	3	Horizontal	0	1.00	39.26	14.29	2.26	27.14
PK	355.92M	25.44	46.00	-20.56	-4.22	3	Horizontal	0	1.00	29.66	19.72	3.19	27.13
PK	402.48M	28.34	46.00	-17.66	-2.92	3	Horizontal	0	1.00	31.26	21.12	3.38	27.42
PK	460.68M	35.60	46.00	-10.40	-1.61	3	Horizontal	0	1.00	37.21	22.56	3.67	27.84



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	2.4835G	53.22	54.00	-0.78	3	Vertical	312	2.16
BT-LE(2Mbps)	Pass	AV	2.4835G	53.07	54.00	-0.93	3	Vertical	321	2.47



Result

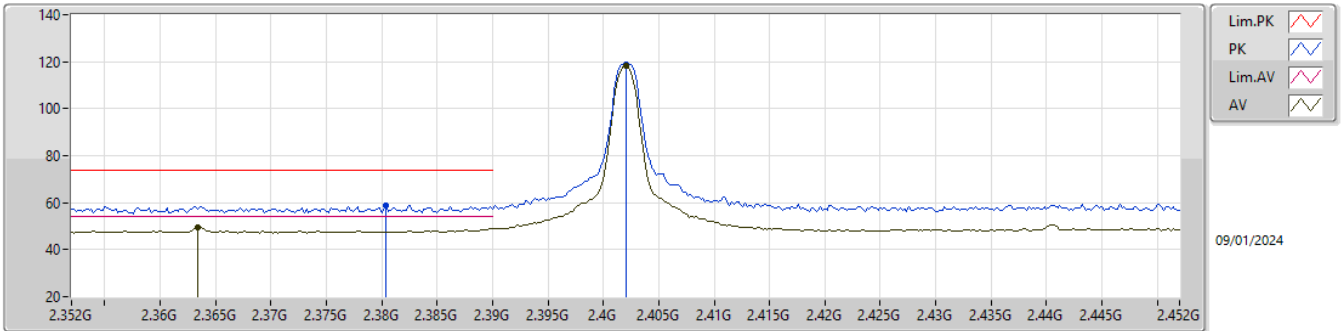
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3634G	49.46	54.00	-4.54	3	Vertical	326	2.39
2402MHz	Pass	AV	2.402G	118.26	Inf	-Inf	3	Vertical	326	2.39
2402MHz	Pass	PK	2.3804G	58.87	74.00	-15.13	3	Vertical	326	2.39
2402MHz	Pass	PK	2.402G	119.05	Inf	-Inf	3	Vertical	326	2.39
2402MHz	Pass	AV	2.3886G	48.05	54.00	-5.95	3	Horizontal	263	1.99
2402MHz	Pass	AV	2.402G	109.69	Inf	-Inf	3	Horizontal	263	1.99
2402MHz	Pass	PK	2.3538G	59.04	74.00	-14.96	3	Horizontal	263	1.99
2402MHz	Pass	PK	2.4022G	110.50	Inf	-Inf	3	Horizontal	263	1.99
2402MHz	Pass	AV	4.80404G	36.33	54.00	-17.67	3	Vertical	148	1.50
2402MHz	Pass	PK	4.80364G	46.83	74.00	-27.17	3	Vertical	148	1.50
2402MHz	Pass	AV	4.80368G	36.78	54.00	-17.22	3	Horizontal	33	1.30
2402MHz	Pass	PK	4.80456G	46.35	74.00	-27.65	3	Horizontal	33	1.30
2440MHz	Pass	AV	2.3656G	48.02	54.00	-5.98	3	Vertical	319	2.28
2440MHz	Pass	AV	2.44G	113.65	Inf	-Inf	3	Vertical	319	2.28
2440MHz	Pass	AV	2.4924G	49.23	54.00	-4.77	3	Vertical	319	2.28
2440MHz	Pass	PK	2.3528G	58.72	74.00	-15.28	3	Vertical	319	2.28
2440MHz	Pass	PK	2.4396G	114.46	Inf	-Inf	3	Vertical	319	2.28
2440MHz	Pass	PK	2.4968G	59.36	74.00	-14.64	3	Vertical	319	2.28
2440MHz	Pass	AV	2.38G	47.93	54.00	-6.07	3	Horizontal	288	2.66
2440MHz	Pass	AV	2.44G	108.97	Inf	-Inf	3	Horizontal	288	2.66
2440MHz	Pass	AV	2.4956G	48.99	54.00	-5.01	3	Horizontal	288	2.66
2440MHz	Pass	PK	2.3468G	59.01	74.00	-14.99	3	Horizontal	288	2.66
2440MHz	Pass	PK	2.4404G	109.83	Inf	-Inf	3	Horizontal	288	2.66
2440MHz	Pass	PK	2.4852G	59.81	74.00	-14.19	3	Horizontal	288	2.66
2440MHz	Pass	AV	4.87976G	36.10	54.00	-17.90	3	Vertical	199	1.50
2440MHz	Pass	AV	7.31936G	47.68	54.00	-6.32	3	Vertical	350	1.27
2440MHz	Pass	PK	4.88214G	46.50	74.00	-27.50	3	Vertical	199	1.50
2440MHz	Pass	PK	7.31938G	55.52	74.00	-18.48	3	Vertical	350	1.27
2440MHz	Pass	AV	4.8798G	38.02	54.00	-15.98	3	Horizontal	48	2.00
2440MHz	Pass	AV	7.31942G	49.59	54.00	-4.41	3	Horizontal	37	1.39
2440MHz	Pass	PK	4.8796G	48.52	74.00	-25.48	3	Horizontal	48	2.00
2440MHz	Pass	PK	7.31924G	57.16	74.00	-16.84	3	Horizontal	37	1.39
2480MHz	Pass	AV	2.48G	108.42	Inf	-Inf	3	Vertical	312	2.16
2480MHz	Pass	AV	2.4835G	53.22	54.00	-0.78	3	Vertical	312	2.16
2480MHz	Pass	PK	2.48G	109.21	Inf	-Inf	3	Vertical	312	2.16
2480MHz	Pass	PK	2.4836G	63.40	74.00	-10.60	3	Vertical	312	2.16
2480MHz	Pass	AV	2.48G	96.35	Inf	-Inf	3	Horizontal	266	2.46
2480MHz	Pass	AV	2.4918G	49.01	54.00	-4.99	3	Horizontal	266	2.46
2480MHz	Pass	PK	2.48G	97.19	Inf	-Inf	3	Horizontal	266	2.46
2480MHz	Pass	PK	2.499G	59.63	74.00	-14.37	3	Horizontal	266	2.46
2480MHz	Pass	AV	4.9639G	35.30	54.00	-18.70	3	Vertical	324	1.50
2480MHz	Pass	AV	7.43926G	42.07	54.00	-11.93	3	Vertical	348	1.23
2480MHz	Pass	PK	4.96358G	46.00	74.00	-28.00	3	Vertical	324	1.50
2480MHz	Pass	PK	7.43936G	52.01	74.00	-21.99	3	Vertical	348	1.23
2480MHz	Pass	AV	4.96012G	35.93	54.00	-18.07	3	Horizontal	43	1.50
2480MHz	Pass	AV	7.43932G	42.12	54.00	-11.88	3	Horizontal	35	1.50
2480MHz	Pass	PK	4.96018G	46.73	74.00	-27.27	3	Horizontal	43	1.50
2480MHz	Pass	PK	7.43982G	52.21	74.00	-21.79	3	Horizontal	35	1.50
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3636G	50.00	54.00	-4.00	3	Vertical	331	2.42
2402MHz	Pass	AV	2.402G	114.77	Inf	-Inf	3	Vertical	331	2.42
2402MHz	Pass	PK	2.363G	58.96	74.00	-15.04	3	Vertical	331	2.42
2402MHz	Pass	PK	2.402G	116.29	Inf	-Inf	3	Vertical	331	2.42
2402MHz	Pass	AV	2.3818G	49.75	54.00	-4.25	3	Horizontal	260	2.02
2402MHz	Pass	AV	2.402G	107.80	Inf	-Inf	3	Horizontal	260	2.02
2402MHz	Pass	PK	2.3754G	58.12	74.00	-15.88	3	Horizontal	260	2.02
2402MHz	Pass	PK	2.402G	109.32	Inf	-Inf	3	Horizontal	260	2.02
2402MHz	Pass	AV	4.80354G	36.78	54.00	-17.22	3	Vertical	152	1.41
2402MHz	Pass	PK	4.80876G	46.18	74.00	-27.82	3	Vertical	152	1.41
2402MHz	Pass	AV	4.80394G	38.00	54.00	-16.00	3	Horizontal	44	1.55



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2402MHz	Pass	PK	4.8048G	46.02	74.00	-27.98	3	Horizontal	44	1.55
2440MHz	Pass	AV	2.3668G	49.26	54.00	-4.74	3	Vertical	316	2.51
2440MHz	Pass	AV	2.44G	113.59	Inf	-Inf	3	Vertical	316	2.51
2440MHz	Pass	AV	2.486G	50.65	54.00	-3.35	3	Vertical	316	2.51
2440MHz	Pass	PK	2.3484G	58.56	74.00	-15.44	3	Vertical	316	2.51
2440MHz	Pass	PK	2.4396G	115.16	Inf	-Inf	3	Vertical	316	2.51
2440MHz	Pass	PK	2.4972G	59.02	74.00	-14.98	3	Vertical	316	2.51
2440MHz	Pass	AV	2.3896G	49.12	54.00	-4.88	3	Horizontal	289	2.66
2440MHz	Pass	AV	2.44G	108.41	Inf	-Inf	3	Horizontal	289	2.66
2440MHz	Pass	AV	2.4876G	50.27	54.00	-3.73	3	Horizontal	289	2.66
2440MHz	Pass	PK	2.3572G	58.35	74.00	-15.65	3	Horizontal	289	2.66
2440MHz	Pass	PK	2.4404G	110.03	Inf	-Inf	3	Horizontal	289	2.66
2440MHz	Pass	PK	2.49G	58.81	74.00	-15.19	3	Horizontal	289	2.66
2440MHz	Pass	AV	4.87994G	37.58	54.00	-16.42	3	Vertical	206	1.47
2440MHz	Pass	AV	7.32006G	48.45	54.00	-5.55	3	Vertical	353	1.10
2440MHz	Pass	PK	4.88052G	46.82	74.00	-27.18	3	Vertical	206	1.47
2440MHz	Pass	PK	7.31868G	54.86	74.00	-19.14	3	Vertical	353	1.10
2440MHz	Pass	AV	4.87982G	38.89	54.00	-15.11	3	Horizontal	44	1.49
2440MHz	Pass	AV	7.32002G	50.90	54.00	-3.10	3	Horizontal	36	1.31
2440MHz	Pass	PK	4.87988G	47.20	74.00	-26.80	3	Horizontal	44	1.49
2440MHz	Pass	PK	7.31998G	56.86	74.00	-17.14	3	Horizontal	36	1.31
2480MHz	Pass	AV	2.48G	103.16	Inf	-Inf	3	Vertical	321	2.47
2480MHz	Pass	AV	2.4835G	53.07	54.00	-0.93	3	Vertical	321	2.47
2480MHz	Pass	PK	2.48G	104.77	Inf	-Inf	3	Vertical	321	2.47
2480MHz	Pass	PK	2.4835G	62.63	74.00	-11.37	3	Vertical	321	2.47
2480MHz	Pass	AV	2.48G	92.00	Inf	-Inf	3	Horizontal	266	2.44
2480MHz	Pass	AV	2.4972G	50.46	54.00	-3.54	3	Horizontal	266	2.44
2480MHz	Pass	PK	2.4796G	93.68	Inf	-Inf	3	Horizontal	266	2.44
2480MHz	Pass	PK	2.495G	59.77	74.00	-14.23	3	Horizontal	266	2.44
2480MHz	Pass	AV	4.9559G	36.91	54.00	-17.09	3	Vertical	360	1.50
2480MHz	Pass	AV	7.4427G	42.07	54.00	-11.93	3	Vertical	176	1.50
2480MHz	Pass	PK	4.95936G	46.21	74.00	-27.79	3	Vertical	360	1.50
2480MHz	Pass	PK	7.44122G	51.43	74.00	-22.57	3	Vertical	176	1.50
2480MHz	Pass	AV	4.95544G	36.74	54.00	-17.26	3	Horizontal	101	1.50
2480MHz	Pass	AV	7.43998G	42.53	54.00	-11.47	3	Horizontal	33	1.50
2480MHz	Pass	PK	4.96498G	45.83	74.00	-28.17	3	Horizontal	101	1.50
2480MHz	Pass	PK	7.43928G	51.69	74.00	-22.31	3	Horizontal	33	1.50

2.4-2.4835GHz_BT-LE(1Mbps)

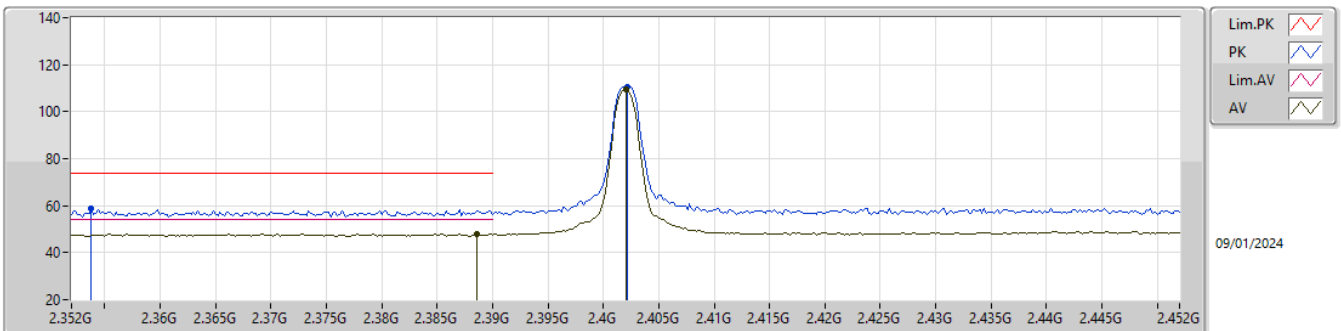
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Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3634G	49.46	54.00	-4.54	31.82	3	Vertical	326	2.39	17.64	27.20	4.62	-
AV	2.402G	118.26	Inf	-Inf	32.06	3	Vertical	326	2.39	86.20	27.40	4.66	-
PK	2.3804G	58.87	74.00	-15.13	31.74	3	Vertical	326	2.39	27.13	27.10	4.64	-
PK	2.402G	119.05	Inf	-Inf	32.06	3	Vertical	326	2.39	86.99	27.40	4.66	-

2.4-2.4835GHz_BT-LE(1Mbps)

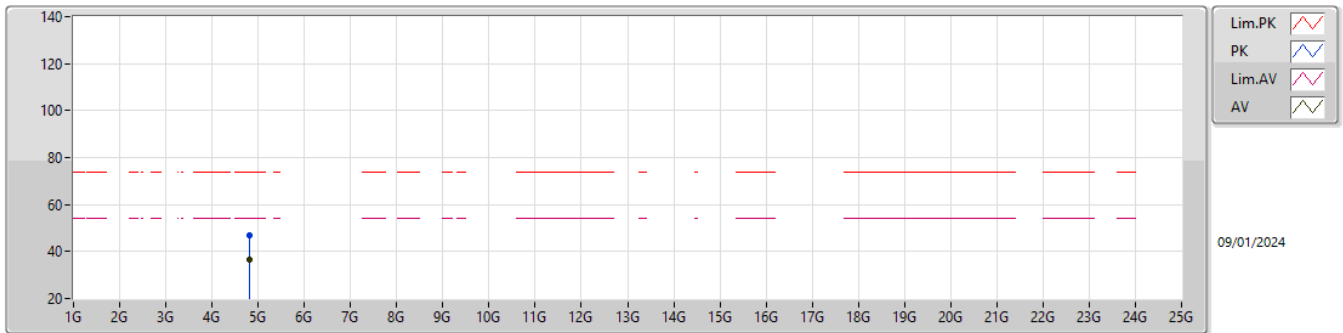
2402MHz_TX



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	2.3886G	48.05	54.00	-5.95	31.84	3	Horizontal	263	1.99	16.21	27.19	4.65	-
AV	2.402G	109.69	Inf	-Inf	32.06	3	Horizontal	263	1.99	77.63	27.40	4.66	-
PK	2.3538G	59.04	74.00	-14.96	31.74	3	Horizontal	263	1.99	27.30	27.14	4.60	-
PK	2.4022G	110.50	Inf	-Inf	32.06	3	Horizontal	263	1.99	78.44	27.40	4.66	-

2.4-2.4835GHz_BT-LE(1Mbps)

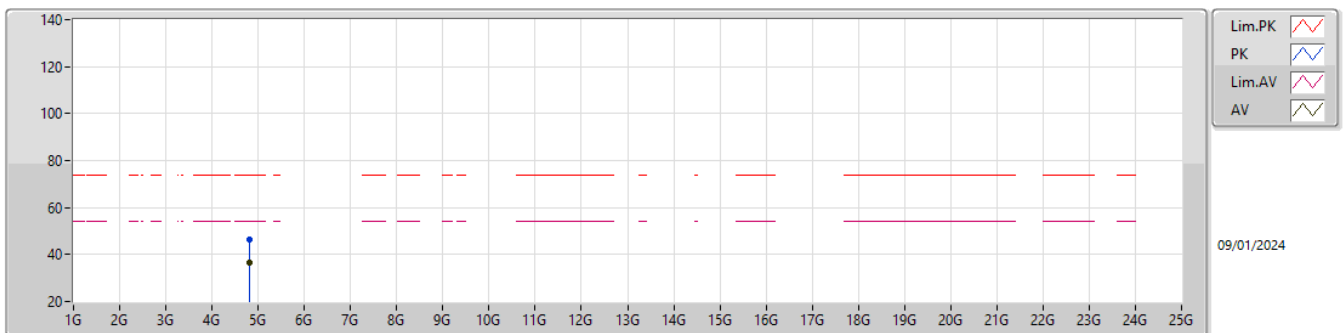
2402MHz_TX



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	4.80404G	36.33	54.00	-17.67	4.80	3	Vertical	148	1.50	31.53	32.02	6.79	34.01
PK	4.80364G	46.83	74.00	-27.17	4.80	3	Vertical	148	1.50	42.03	32.02	6.79	34.01

2.4-2.4835GHz_BT-LE(1Mbps)

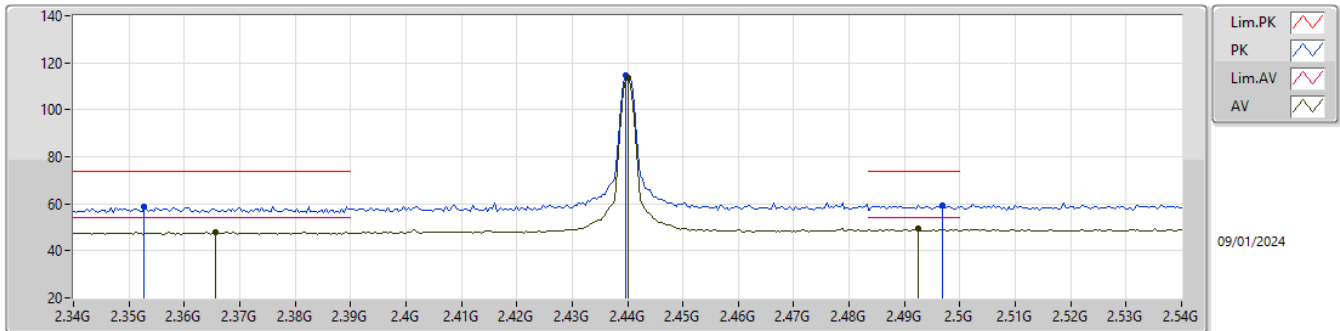
2402MHz_TX



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	4.80368G	36.78	54.00	-17.22	4.80	3	Horizontal	33	1.30	31.98	32.02	6.79	34.01
PK	4.80456G	46.35	74.00	-27.65	4.81	3	Horizontal	33	1.30	41.54	32.03	6.79	34.01

2.4-2.4835GHz_BT-LE(1Mbps)

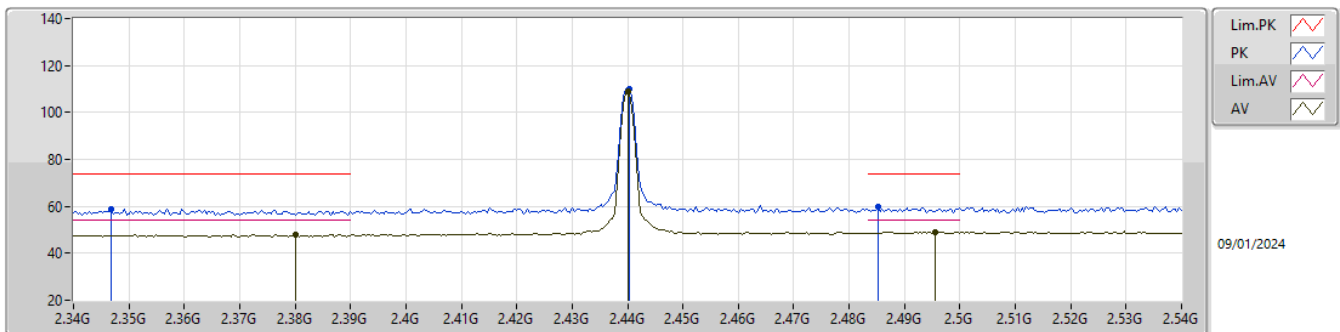
2440MHz_TX



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	2.3656G	48.02	54.00	-5.98	31.82	3	Vertical	319	2.28	16.20	27.20	4.62	-
AV	2.44G	113.65	Inf	-Inf	32.33	3	Vertical	319	2.28	81.32	27.60	4.73	-
AV	2.4924G	49.23	54.00	-4.77	32.62	3	Vertical	319	2.28	16.61	27.80	4.82	-
PK	2.3528G	58.72	74.00	-15.28	31.73	3	Vertical	319	2.28	26.99	27.13	4.60	-
PK	2.4396G	114.46	Inf	-Inf	32.33	3	Vertical	319	2.28	82.13	27.60	4.73	-
PK	2.4968G	59.36	74.00	-14.64	32.62	3	Vertical	319	2.28	26.74	27.80	4.82	-

2.4-2.4835GHz_BT-LE(1Mbps)

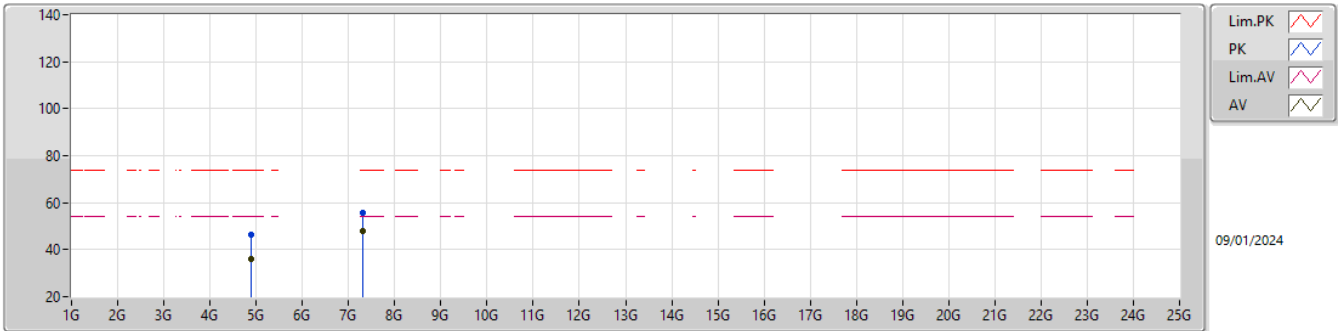
2440MHz_TX



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	2.38G	47.93	54.00	-6.07	31.74	3	Horizontal	288	2.66	16.19	27.10	4.64	-
AV	2.44G	108.97	Inf	-Inf	32.33	3	Horizontal	288	2.66	76.64	27.60	4.73	-
AV	2.4956G	48.99	54.00	-5.01	32.62	3	Horizontal	288	2.66	16.37	27.80	4.82	-
PK	2.3468G	59.01	74.00	-14.99	31.67	3	Horizontal	288	2.66	27.34	27.07	4.60	-
PK	2.4404G	109.83	Inf	-Inf	32.33	3	Horizontal	288	2.66	77.50	27.60	4.73	-
PK	2.4852G	59.81	74.00	-14.19	32.55	3	Horizontal	288	2.66	27.26	27.75	4.80	-

2.4-2.4835GHz_BT-LE(1Mbps)

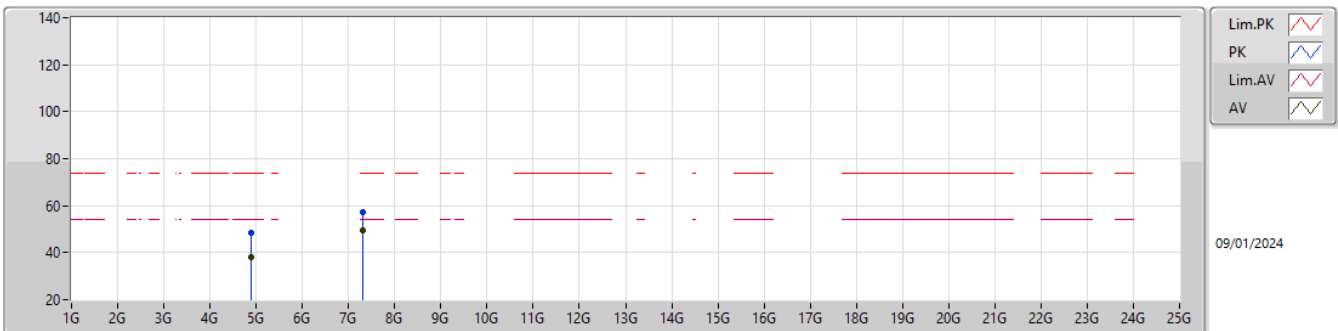
2440MHz_TX



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	4.87976G	36.10	54.00	-17.90	5.30	3	Vertical	199	1.50	30.80	32.48	6.82	34.00
AV	7.31936G	47.68	54.00	-6.32	10.92	3	Vertical	350	1.27	36.76	36.66	8.60	34.34
PK	4.88214G	46.50	74.00	-27.50	5.31	3	Vertical	199	1.50	41.19	32.49	6.82	34.00
PK	7.31938G	55.52	74.00	-18.48	10.92	3	Vertical	350	1.27	44.60	36.66	8.60	34.34

2.4-2.4835GHz_BT-LE(1Mbps)

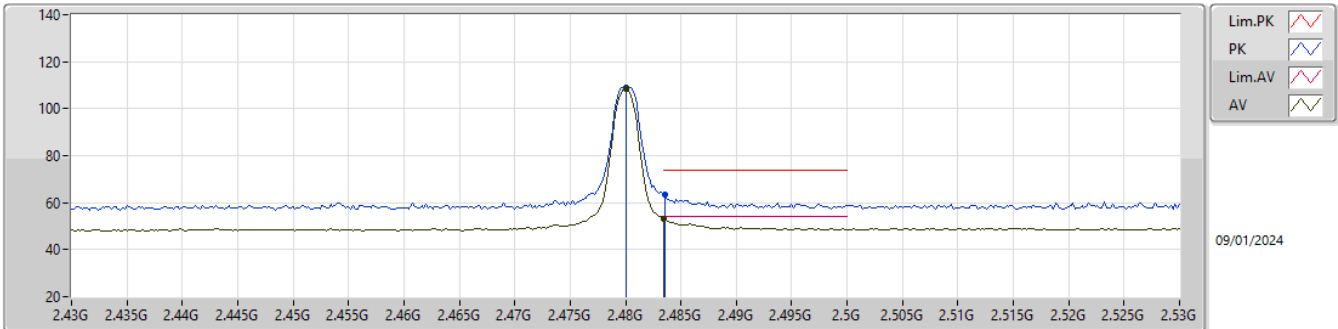
2440MHz_TX



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	4.8798G	38.02	54.00	-15.98	5.30	3	Horizontal	48	2.00	32.72	32.48	6.82	34.00
AV	7.31942G	49.59	54.00	-4.41	10.92	3	Horizontal	37	1.39	38.67	36.66	8.60	34.34
PK	4.8796G	48.52	74.00	-25.48	5.30	3	Horizontal	48	2.00	43.22	32.48	6.82	34.00
PK	7.31924G	57.16	74.00	-16.84	10.92	3	Horizontal	37	1.39	46.24	36.66	8.60	34.34

2.4-2.4835GHz_BT-LE(1Mbps)

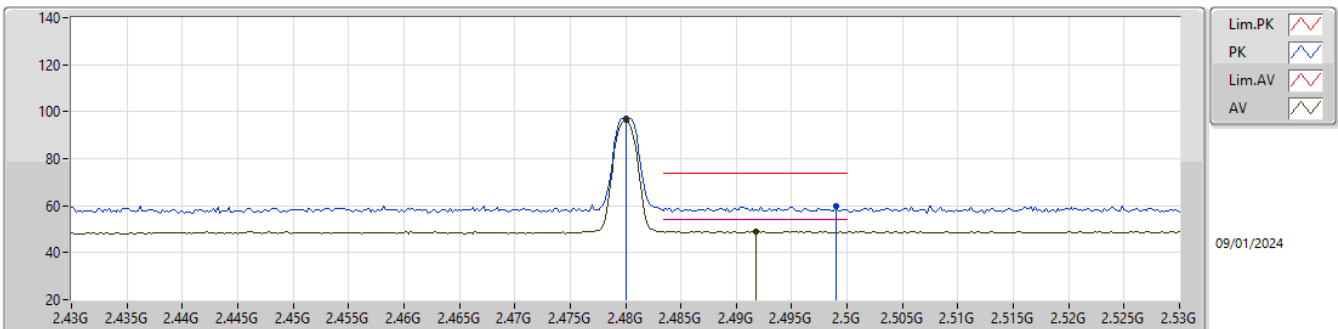
2480MHz_TX



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	108.42	Inf	-Inf	32.50	3	Vertical	312	2.16	75.92	27.70	4.80	-
AV	2.4835G	53.22	54.00	-0.78	32.54	3	Vertical	312	2.16	20.68	27.74	4.80	-
PK	2.48G	109.21	Inf	-Inf	32.50	3	Vertical	312	2.16	76.71	27.70	4.80	-
PK	2.4836G	63.40	74.00	-10.60	32.54	3	Vertical	312	2.16	30.86	27.74	4.80	-

2.4-2.4835GHz_BT-LE(1Mbps)

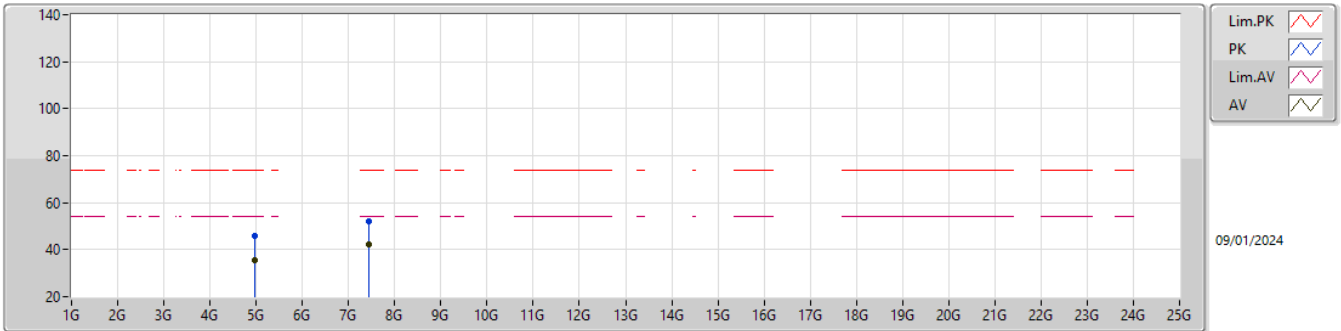
2480MHz_TX



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	96.35	Inf	-Inf	32.50	3	Horizontal	266	2.46	63.85	27.70	4.80	-
AV	2.4918G	49.01	54.00	-4.99	32.62	3	Horizontal	266	2.46	16.39	27.80	4.82	-
PK	2.48G	97.19	Inf	-Inf	32.50	3	Horizontal	266	2.46	64.69	27.70	4.80	-
PK	2.499G	59.63	74.00	-14.37	32.63	3	Horizontal	266	2.46	27.00	27.80	4.83	-

2.4-2.4835GHz_BT-LE(1Mbps)

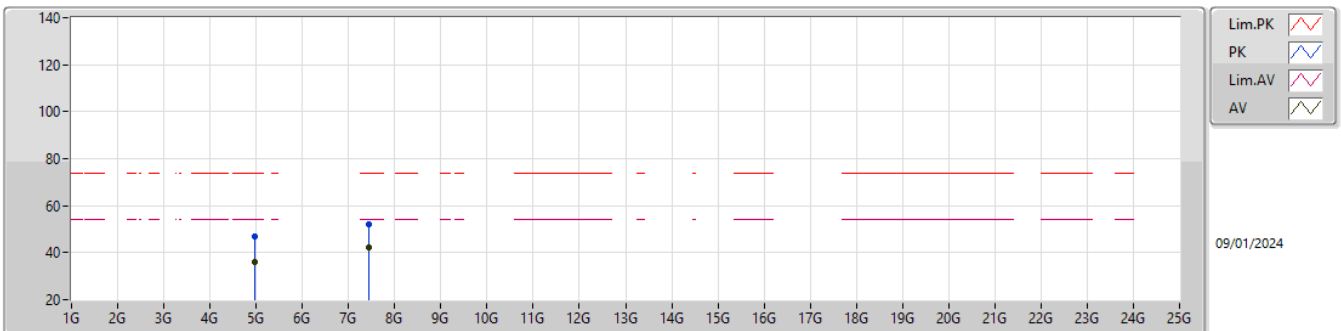
2480MHz_TX



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	4.9639G	35.30	54.00	-18.70	5.75	3	Vertical	324	1.50	29.55	32.88	6.86	33.99
AV	7.43926G	42.07	54.00	-11.93	10.63	3	Vertical	348	1.23	31.44	36.32	8.66	34.35
PK	4.96358G	46.00	74.00	-28.00	5.75	3	Vertical	324	1.50	40.25	32.88	6.86	33.99
PK	7.43936G	52.01	74.00	-21.99	10.63	3	Vertical	348	1.23	41.38	36.32	8.66	34.35

2.4-2.4835GHz_BT-LE(1Mbps)

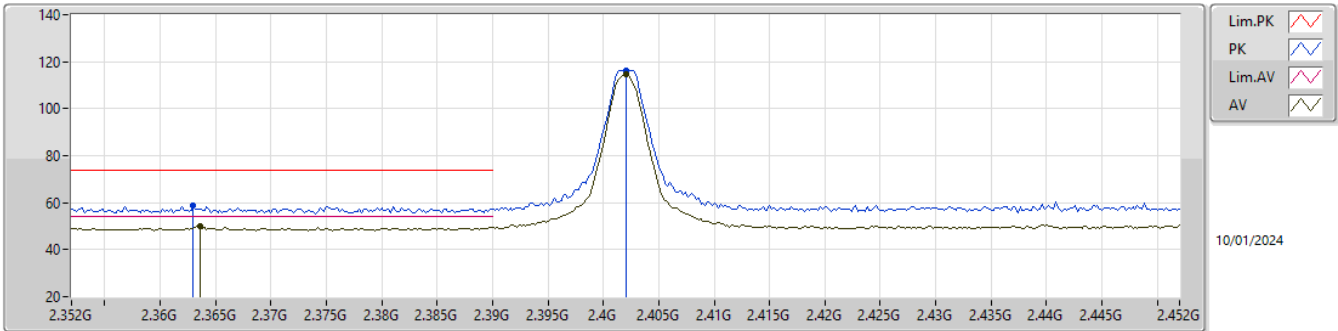
2480MHz_TX



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	4.96012G	35.93	54.00	-18.07	5.72	3	Horizontal	43	1.50	30.21	32.86	6.85	33.99
AV	7.43932G	42.12	54.00	-11.88	10.63	3	Horizontal	35	1.50	31.49	36.32	8.66	34.35
PK	4.96018G	46.73	74.00	-27.27	5.72	3	Horizontal	43	1.50	41.01	32.86	6.85	33.99
PK	7.43982G	52.21	74.00	-21.79	10.63	3	Horizontal	35	1.50	41.58	36.32	8.66	34.35

2.4-2.4835GHz_BT-LE(2Mbps)

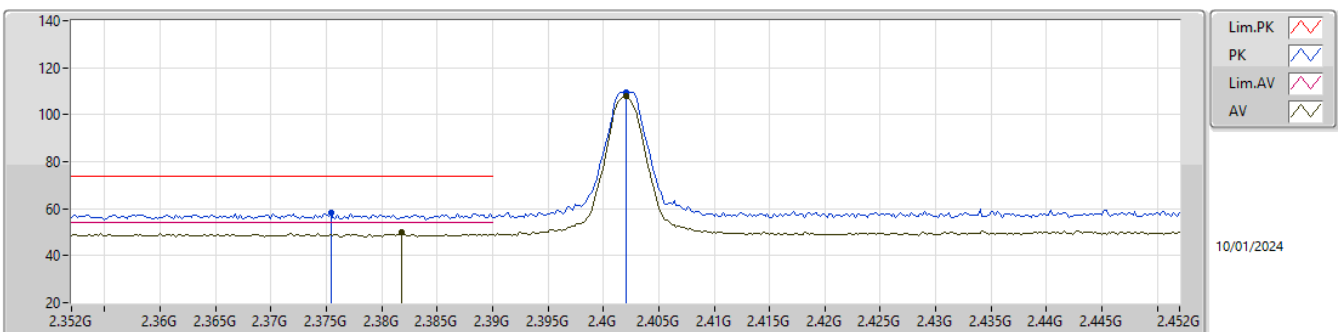
2402MHz_TX



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	2.3636G	50.00	54.00	-4.00	31.82	3	Vertical	331	2.42	18.18	27.20	4.62	-
AV	2.402G	114.77	Inf	-Inf	32.06	3	Vertical	331	2.42	82.71	27.40	4.66	-
PK	2.363G	58.96	74.00	-15.04	31.82	3	Vertical	331	2.42	27.14	27.20	4.62	-
PK	2.402G	116.29	Inf	-Inf	32.06	3	Vertical	331	2.42	84.23	27.40	4.66	-

2.4-2.4835GHz_BT-LE(2Mbps)

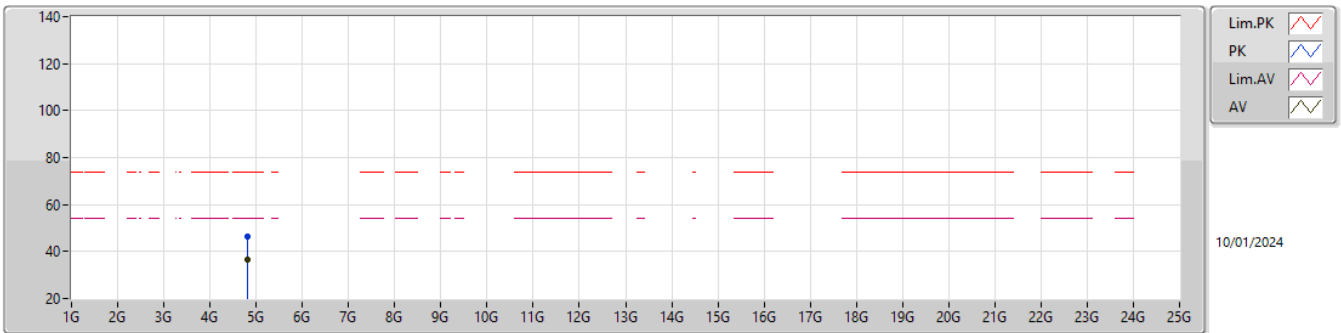
2402MHz_TX



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	2.3818G	49.75	54.00	-4.25	31.76	3	Horizontal	260	2.02	17.99	27.12	4.64	-
AV	2.402G	107.80	Inf	-Inf	32.06	3	Horizontal	260	2.02	75.74	27.40	4.66	-
PK	2.3754G	58.12	74.00	-15.88	31.78	3	Horizontal	260	2.02	26.34	27.15	4.63	-
PK	2.402G	109.32	Inf	-Inf	32.06	3	Horizontal	260	2.02	77.26	27.40	4.66	-

2.4-2.4835GHz_BT-LE(2Mbps)

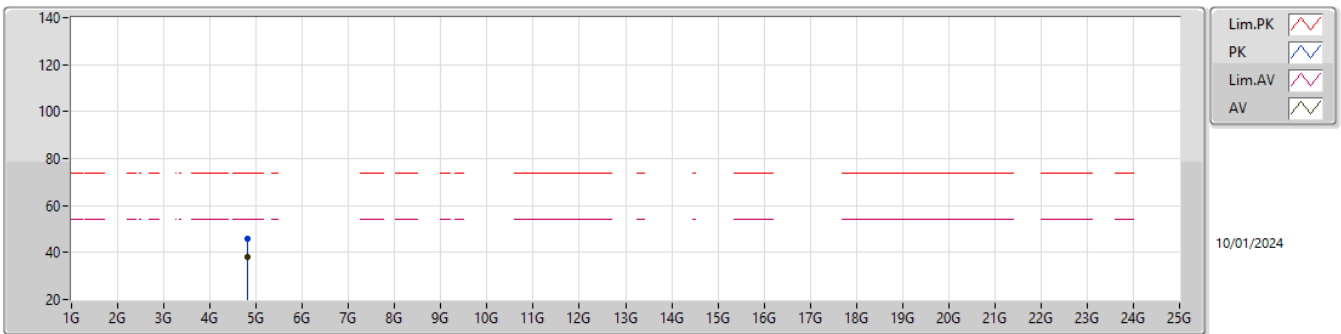
2402MHz_TX



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	4.80354G	36.78	54.00	-17.22	4.80	3	Vertical	152	1.41	31.98	32.02	6.79	34.01
PK	4.80876G	46.18	74.00	-27.82	4.83	3	Vertical	152	1.41	41.35	32.05	6.79	34.01

2.4-2.4835GHz_BT-LE(2Mbps)

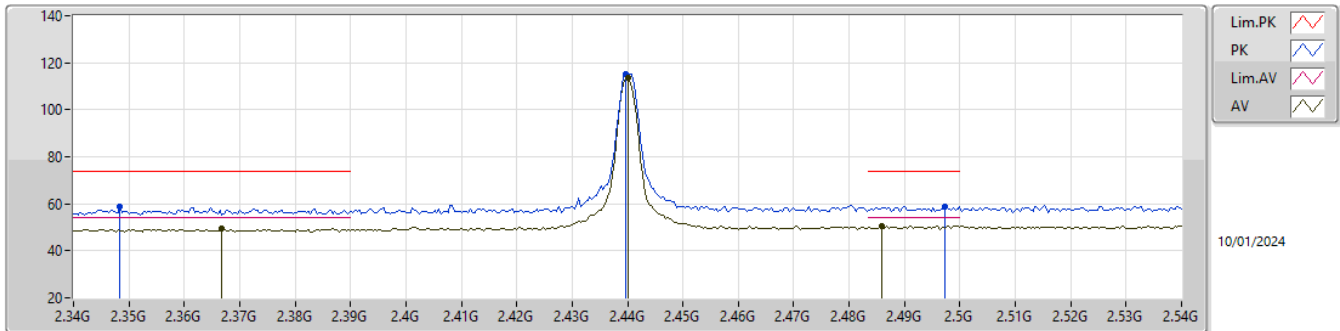
2402MHz_TX



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	4.80394G	38.00	54.00	-16.00	4.80	3	Horizontal	44	1.55	33.20	32.02	6.79	34.01
PK	4.8048G	46.02	74.00	-27.98	4.81	3	Horizontal	44	1.55	41.21	32.03	6.79	34.01

2.4-2.4835GHz_BT-LE(2Mbps)

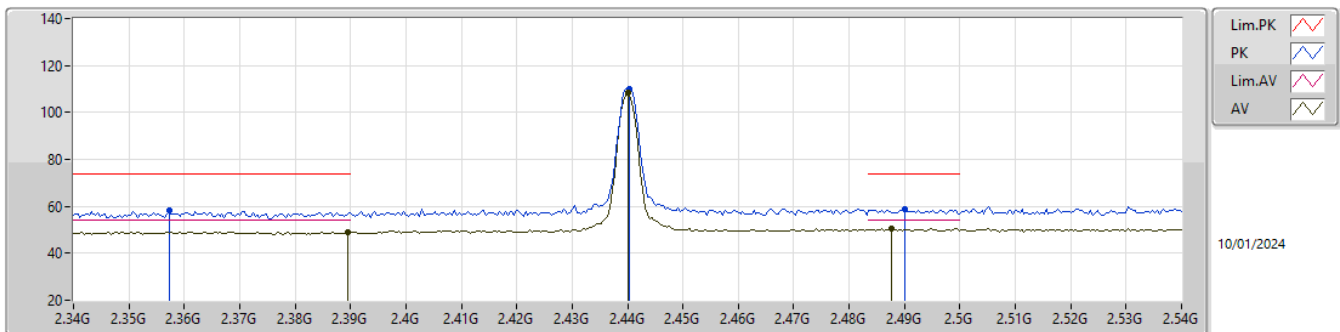
2440MHz_TX



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	2.3668G	49.26	54.00	-4.74	31.82	3	Vertical	316	2.51	17.44	27.20	4.62	-
AV	2.44G	113.59	Inf	-Inf	32.33	3	Vertical	316	2.51	81.26	27.60	4.73	-
AV	2.486G	50.65	54.00	-3.35	32.57	3	Vertical	316	2.51	18.08	27.76	4.81	-
PK	2.3484G	58.56	74.00	-15.44	31.68	3	Vertical	316	2.51	26.88	27.08	4.60	-
PK	2.4396G	115.16	Inf	-Inf	32.33	3	Vertical	316	2.51	82.83	27.60	4.73	-
PK	2.4972G	59.02	74.00	-14.98	32.63	3	Vertical	316	2.51	26.39	27.80	4.83	-

2.4-2.4835GHz_BT-LE(2Mbps)

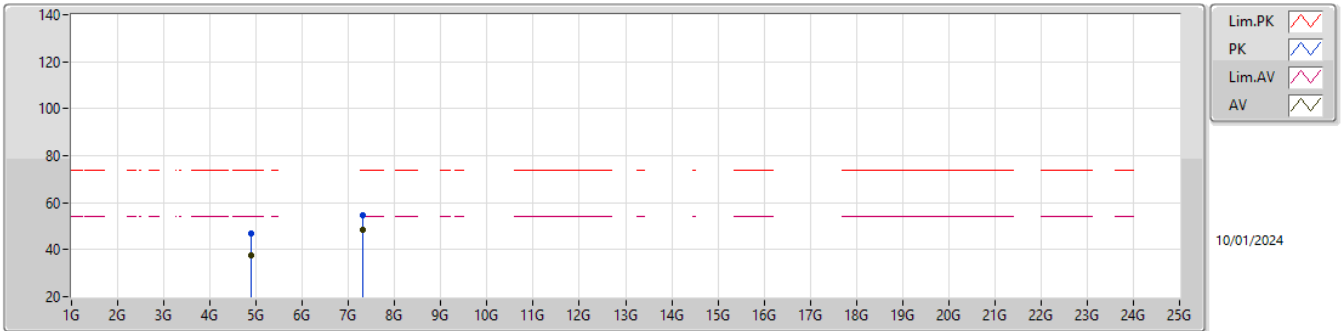
2440MHz_TX



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	2.3896G	49.12	54.00	-4.88	31.85	3	Horizontal	289	2.66	17.27	27.20	4.65	-
AV	2.44G	108.41	Inf	-Inf	32.33	3	Horizontal	289	2.66	76.08	27.60	4.73	-
AV	2.4876G	50.27	54.00	-3.73	32.59	3	Horizontal	289	2.66	17.68	27.78	4.81	-
PK	2.3572G	58.35	74.00	-15.65	31.78	3	Horizontal	289	2.66	26.57	27.17	4.61	-
PK	2.4404G	110.03	Inf	-Inf	32.33	3	Horizontal	289	2.66	77.70	27.60	4.73	-
PK	2.49G	58.81	74.00	-15.19	32.61	3	Horizontal	289	2.66	26.20	27.80	4.81	-

2.4-2.4835GHz_BT-LE(2Mbps)

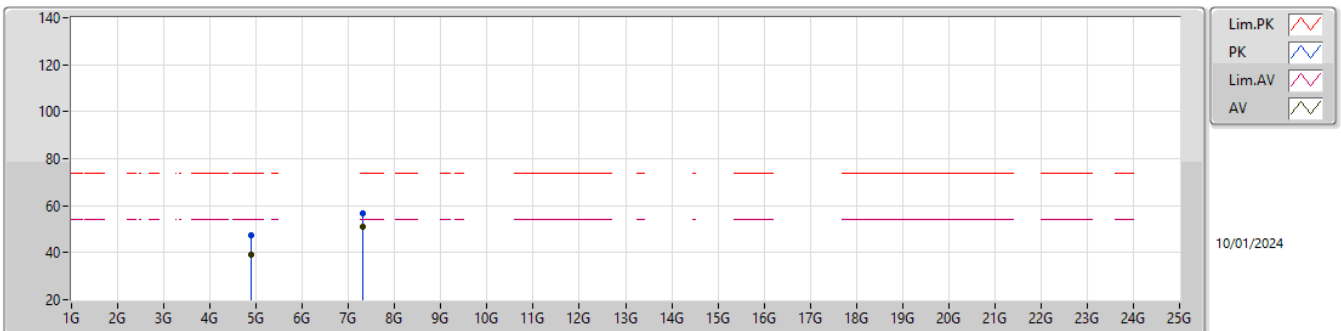
2440MHz_TX



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	4.87994G	37.58	54.00	-16.42	5.30	3	Vertical	206	1.47	32.28	32.48	6.82	34.00
AV	7.32006G	48.45	54.00	-5.55	10.92	3	Vertical	353	1.10	37.53	36.66	8.60	34.34
PK	4.88052G	46.82	74.00	-27.18	5.30	3	Vertical	206	1.47	41.52	32.48	6.82	34.00
PK	7.31868G	54.86	74.00	-19.14	10.92	3	Vertical	353	1.10	43.94	36.66	8.60	34.34

2.4-2.4835GHz_BT-LE(2Mbps)

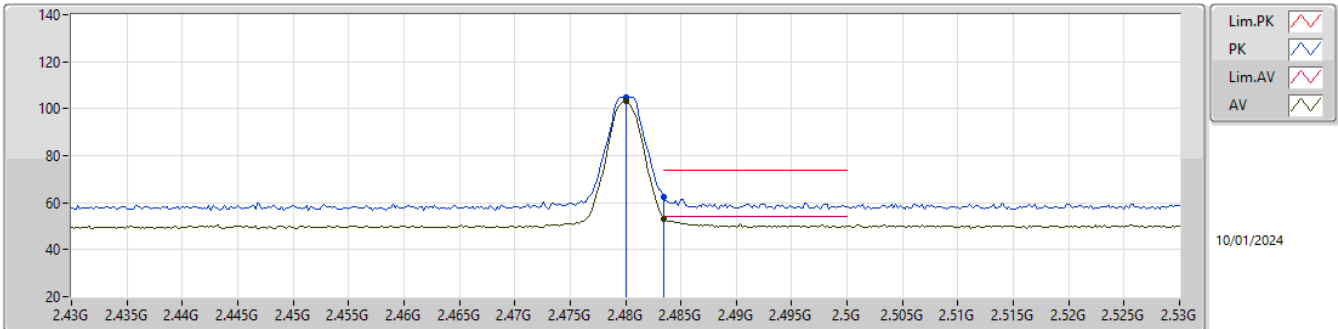
2440MHz_TX



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	4.87982G	38.89	54.00	-15.11	5.30	3	Horizontal	44	1.49	33.59	32.48	6.82	34.00
AV	7.32002G	50.90	54.00	-3.10	10.92	3	Horizontal	36	1.31	39.98	36.66	8.60	34.34
PK	4.87988G	47.20	74.00	-26.80	5.30	3	Horizontal	44	1.49	41.90	32.48	6.82	34.00
PK	7.31998G	56.86	74.00	-17.14	10.92	3	Horizontal	36	1.31	45.94	36.66	8.60	34.34

2.4-2.4835GHz_BT-LE(2Mbps)

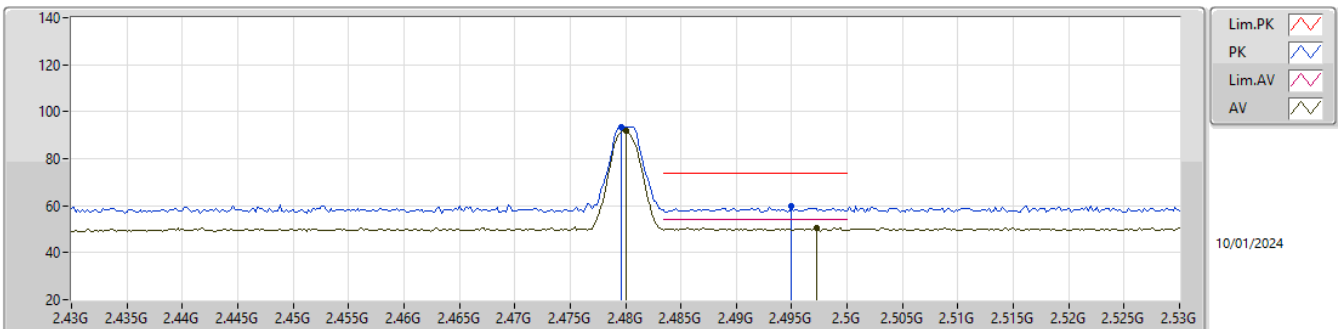
2480MHz_TX



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	103.16	Inf	-Inf	32.50	3	Vertical	321	2.47	70.66	27.70	4.80	-
AV	2.4835G	53.07	54.00	-0.93	32.54	3	Vertical	321	2.47	20.53	27.74	4.80	-
PK	2.48G	104.77	Inf	-Inf	32.50	3	Vertical	321	2.47	72.27	27.70	4.80	-
PK	2.4835G	62.63	74.00	-11.37	32.54	3	Vertical	321	2.47	30.09	27.74	4.80	-

2.4-2.4835GHz_BT-LE(2Mbps)

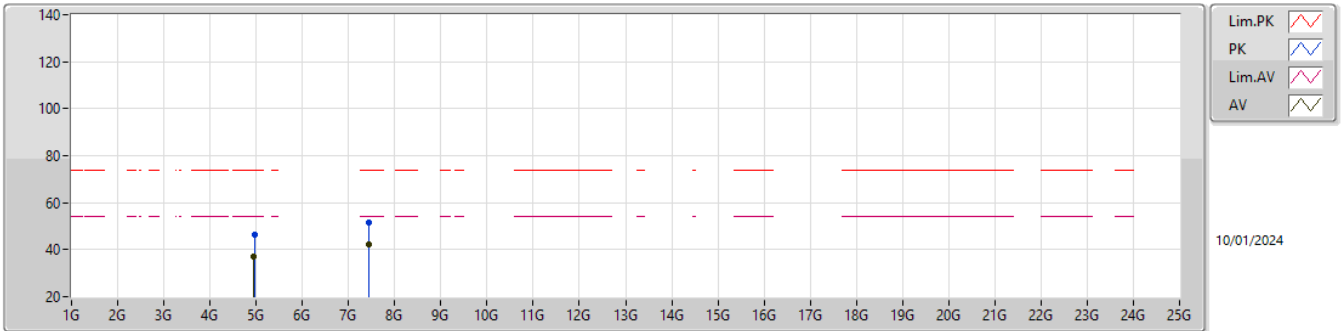
2480MHz_TX



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	92.00	Inf	-Inf	32.50	3	Horizontal	266	2.44	59.50	27.70	4.80	-
AV	2.4972G	50.46	54.00	-3.54	32.63	3	Horizontal	266	2.44	17.83	27.80	4.83	-
PK	2.4796G	93.68	Inf	-Inf	32.50	3	Horizontal	266	2.44	61.18	27.70	4.80	-
PK	2.495G	59.77	74.00	-14.23	32.62	3	Horizontal	266	2.44	27.15	27.80	4.82	-

2.4-2.4835GHz_BT-LE(2Mbps)

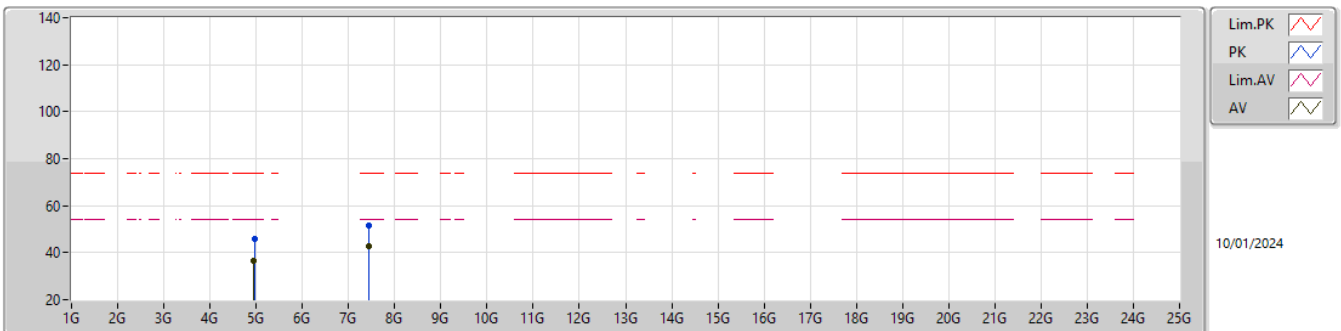
2480MHz_TX



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	4.9559G	36.91	54.00	-17.09	5.69	3	Vertical	360	1.50	31.22	32.84	6.85	34.00
AV	7.4427G	42.07	54.00	-11.93	10.62	3	Vertical	176	1.50	31.45	36.31	8.66	34.35
PK	4.95936G	46.21	74.00	-27.79	5.72	3	Vertical	360	1.50	40.49	32.86	6.85	33.99
PK	7.44122G	51.43	74.00	-22.57	10.63	3	Vertical	176	1.50	40.80	36.32	8.66	34.35

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	4.95544G	36.74	54.00	-17.26	5.68	3	Horizontal	101	1.50	31.06	32.83	6.85	34.00
AV	7.43998G	42.53	54.00	-11.47	10.63	3	Horizontal	33	1.50	31.90	36.32	8.66	34.35
PK	4.96498G	45.83	74.00	-28.17	5.76	3	Horizontal	101	1.50	40.07	32.89	6.86	33.99
PK	7.43928G	51.69	74.00	-22.31	10.63	3	Horizontal	33	1.50	41.06	36.32	8.66	34.35



Summary

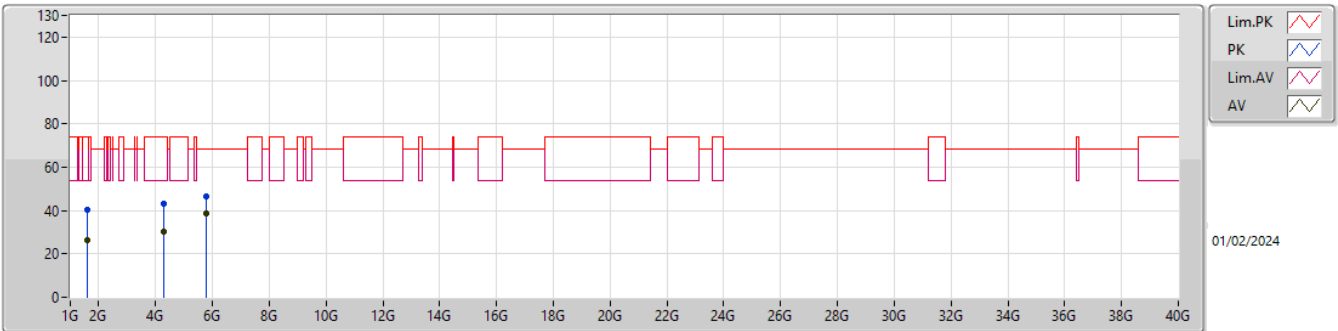
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	PK	5.79985G	46.52	68.20	-21.68	Vertical
Mode 2	Pass	PK	5.79336G	50.67	68.20	-17.53	Vertical
Mode 3	Pass	AV	4.9867G	34.12	54.00	-19.88	Horizontal
Mode 4	Pass	AV	1.59628G	27.45	54.00	-26.55	Horizontal



Result

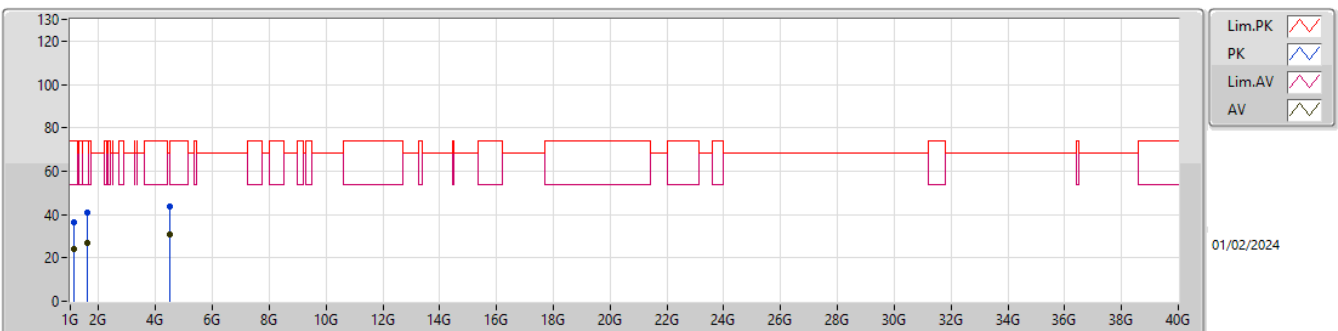
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
Mode 1	Pass	AV	1.59731G	26.56	54.00	-27.44	3	Vertical	200	1.53	-
Mode 1	Pass	AV	4.27259G	30.39	54.00	-23.61	3	Vertical	315	1.23	-
Mode 1	Pass	AV	5.79766G	38.65	68.20	-29.55	3	Vertical	35	1.56	-
Mode 1	Pass	PK	1.59412G	40.41	74.00	-33.59	3	Vertical	200	1.53	-
Mode 1	Pass	PK	4.26914G	43.22	74.00	-30.78	3	Vertical	315	1.23	-
Mode 1	Pass	PK	5.79985G	46.52	68.20	-21.68	3	Vertical	35	1.56	-
Mode 1	Pass	AV	1.13407G	24.11	54.00	-29.89	3	Horizontal	20	1.50	-
Mode 1	Pass	AV	1.59777G	26.85	54.00	-27.15	3	Horizontal	1	1.50	-
Mode 1	Pass	AV	4.50891G	30.64	54.00	-23.36	3	Horizontal	250	1.67	-
Mode 1	Pass	PK	1.11399G	36.19	74.00	-37.81	3	Horizontal	20	1.50	-
Mode 1	Pass	PK	1.59437G	40.84	74.00	-33.16	3	Horizontal	1	1.50	-
Mode 1	Pass	PK	4.51651G	43.74	74.00	-30.26	3	Horizontal	250	1.67	-
Mode 2	Pass	AV	1.59725G	27.19	54.00	-26.81	3	Vertical	221	1.50	-
Mode 2	Pass	AV	3.52G	30.56	68.20	-37.64	3	Vertical	149	2.80	-
Mode 2	Pass	AV	5.7864G	35.75	68.20	-32.45	3	Vertical	48	2.73	-
Mode 2	Pass	PK	1.59615G	41.69	74.00	-32.31	3	Vertical	221	1.50	-
Mode 2	Pass	PK	3.49486G	46.24	68.20	-21.96	3	Vertical	149	2.80	-
Mode 2	Pass	PK	5.79336G	50.67	68.20	-17.53	3	Vertical	48	2.73	-
Mode 2	Pass	AV	1.59772G	27.14	54.00	-26.86	3	Horizontal	354	1.32	-
Mode 2	Pass	AV	3.50844G	30.28	68.20	-37.92	3	Horizontal	48	1.50	-
Mode 2	Pass	AV	5.83578G	35.51	68.20	-32.69	3	Horizontal	10	1.07	-
Mode 2	Pass	PK	1.5943G	40.88	74.00	-33.12	3	Horizontal	354	1.32	-
Mode 2	Pass	PK	3.4869G	49.20	68.20	-19.00	3	Horizontal	48	1.50	-
Mode 2	Pass	PK	5.83242G	47.72	68.20	-20.48	3	Horizontal	10	1.07	-
Mode 3	Pass	AV	1.59494G	26.37	54.00	-27.63	3	Vertical	185	1.50	-
Mode 3	Pass	AV	3.24866G	30.99	68.20	-37.21	3	Vertical	26	2.43	-
Mode 3	Pass	AV	5.17222G	34.43	68.20	-33.77	3	Vertical	252	2.39	-
Mode 3	Pass	PK	1.59758G	39.90	74.00	-34.10	3	Vertical	185	1.50	-
Mode 3	Pass	PK	3.24542G	43.38	88.20	-44.82	3	Vertical	26	2.43	-
Mode 3	Pass	PK	5.16898G	46.34	88.20	-41.86	3	Vertical	252	2.39	-
Mode 3	Pass	AV	1.59736G	28.56	54.00	-25.44	3	Horizontal	353	1.50	-
Mode 3	Pass	AV	3.7252G	31.51	54.00	-22.49	3	Horizontal	124	1.21	-
Mode 3	Pass	AV	4.9867G	34.12	54.00	-19.88	3	Horizontal	73	1.46	-
Mode 3	Pass	PK	1.59712G	41.65	74.00	-32.35	3	Horizontal	353	1.50	-
Mode 3	Pass	PK	3.71488G	43.53	74.00	-30.47	3	Horizontal	124	1.21	-
Mode 3	Pass	PK	4.99624G	46.87	74.00	-27.13	3	Horizontal	73	1.46	-
Mode 4	Pass	AV	1.59763G	27.26	54.00	-26.74	3	Vertical	220	1.27	-
Mode 4	Pass	AV	2.50491G	32.01	68.20	-36.19	3	Vertical	290	1.96	-
Mode 4	Pass	AV	5.80438G	33.41	68.20	-34.79	3	Vertical	284	1.49	-
Mode 4	Pass	PK	1.59645G	43.66	74.00	-30.34	3	Vertical	220	1.27	-
Mode 4	Pass	PK	2.51432G	52.52	88.20	-35.68	3	Vertical	290	1.96	-
Mode 4	Pass	PK	5.79535G	46.41	88.20	-41.79	3	Vertical	284	1.49	-
Mode 4	Pass	AV	1.59628G	27.45	54.00	-26.55	3	Horizontal	335	2.26	-
Mode 4	Pass	AV	4.45454G	31.17	68.20	-37.03	3	Horizontal	15	1.50	-
Mode 4	Pass	AV	5.89774G	34.20	68.20	-34.00	3	Horizontal	360	1.50	-
Mode 4	Pass	PK	1.5994G	45.56	74.00	-28.44	3	Horizontal	335	2.26	-
Mode 4	Pass	PK	4.43234G	44.02	88.20	-44.18	3	Horizontal	15	1.50	-
Mode 4	Pass	PK	5.90392G	46.87	88.20	-41.33	3	Horizontal	360	1.50	-

Radiated Emissions above 1GHz_Mode 1



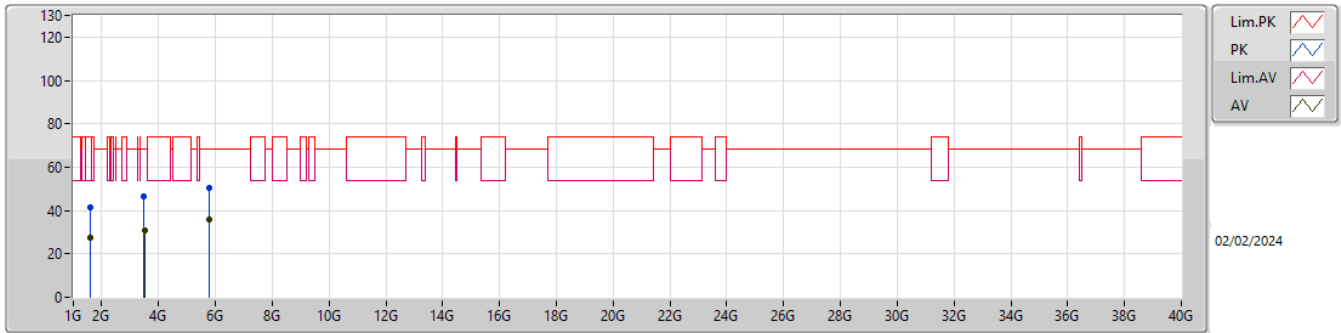
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.59731G	26.56	54.00	-27.44	-6.14	3	Vertical	200	1.53	32.70	25.33	3.47	34.94
AV	4.27259G	30.39	54.00	-23.61	1.99	3	Vertical	315	1.23	28.40	31.14	5.73	34.88
AV	5.79766G	38.65	68.20	-29.55	6.01	3	Vertical	35	1.56	32.64	33.89	6.90	34.78
PK	1.59412G	40.41	74.00	-33.59	-6.12	3	Vertical	200	1.53	46.53	25.36	3.46	34.94
PK	4.26914G	43.22	74.00	-30.78	1.96	3	Vertical	315	1.23	41.26	31.11	5.73	34.88
PK	5.79985G	46.52	68.20	-21.68	6.02	3	Vertical	35	1.56	40.50	33.90	6.90	34.78

Radiated Emissions above 1GHz_Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.13407G	24.11	54.00	-29.89	-6.50	3	Horizontal	20	1.50	30.61	26.20	2.88	35.58
AV	1.59777G	26.85	54.00	-27.15	-6.15	3	Horizontal	1	1.50	33.00	25.32	3.47	34.94
AV	4.50891G	30.64	54.00	-23.36	2.34	3	Horizontal	250	1.67	28.30	31.40	5.86	34.92
PK	1.11399G	36.19	74.00	-37.81	-6.87	3	Horizontal	20	1.50	43.06	25.88	2.86	35.61
PK	1.59437G	40.84	74.00	-33.16	-6.12	3	Horizontal	1	1.50	46.96	25.36	3.46	34.94
PK	4.51651G	43.74	74.00	-30.26	2.35	3	Horizontal	250	1.67	41.39	31.40	5.87	34.92

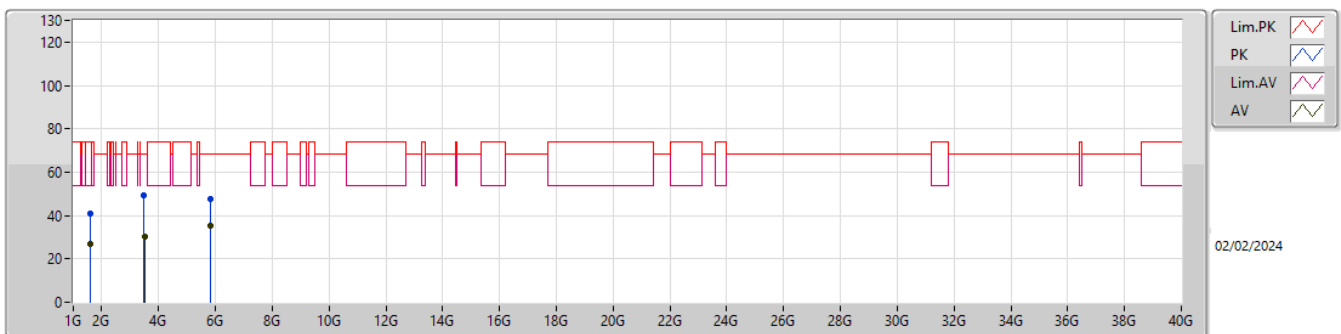
Radiated Emissions above 1GHz_Mode 2



02/02/2024

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.59725G	27.19	54.00	-26.81	-6.14	3	Vertical	221	1.50	33.33	25.33	3.47	34.94
AV	3.52G	30.56	68.20	-37.64	-0.47	3	Vertical	149	2.80	31.03	29.30	5.21	34.98
AV	5.7864G	35.75	68.20	-32.45	5.93	3	Vertical	48	2.73	29.82	33.82	6.89	34.78
PK	1.59615G	41.69	74.00	-32.31	-6.13	3	Vertical	221	1.50	47.82	25.34	3.47	34.94
PK	3.49486G	46.24	68.20	-21.96	-0.50	3	Vertical	149	2.80	46.74	29.30	5.19	34.99
PK	5.79336G	50.67	68.20	-17.53	5.98	3	Vertical	48	2.73	44.69	33.86	6.90	34.78

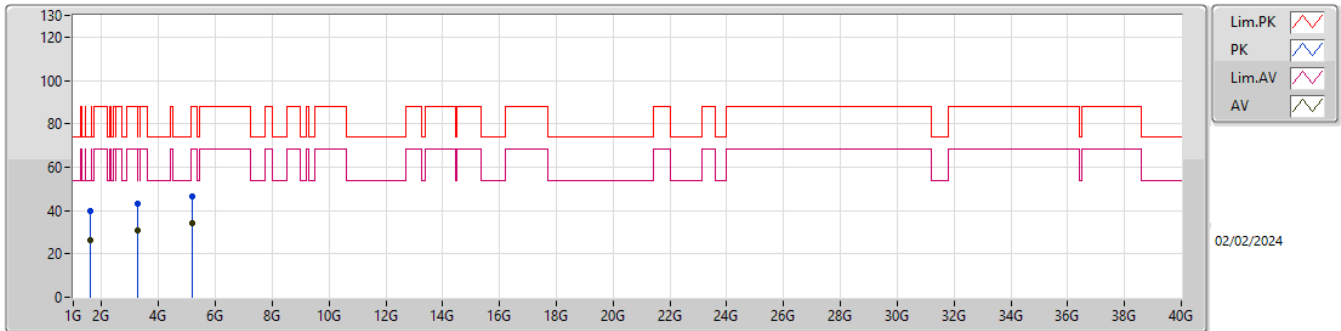
Radiated Emissions above 1GHz_Mode 2



02/02/2024

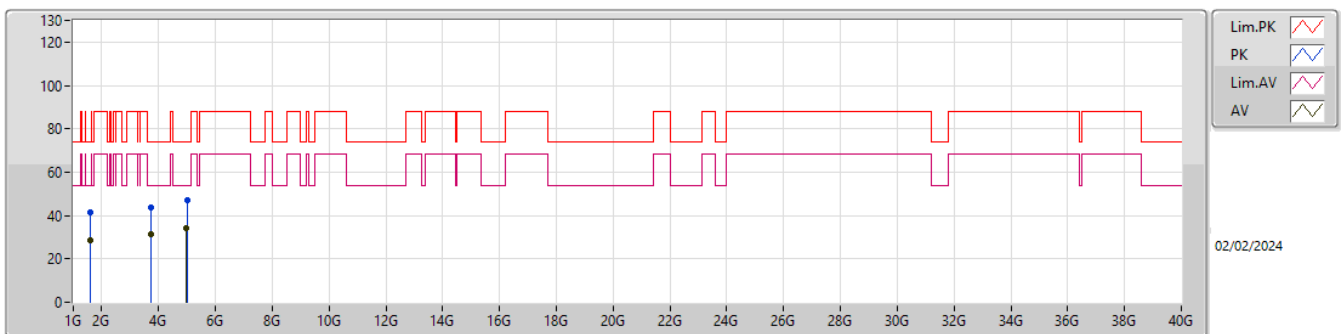
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.59772G	27.14	54.00	-26.86	-6.15	3	Horizontal	354	1.32	33.29	25.32	3.47	34.94
AV	3.50844G	30.28	68.20	-37.92	-0.49	3	Horizontal	48	1.50	30.77	29.30	5.20	34.99
AV	5.83578G	35.51	68.20	-32.69	6.04	3	Horizontal	10	1.07	29.47	33.90	6.93	34.79
PK	1.5943G	40.88	74.00	-33.12	-6.12	3	Horizontal	354	1.32	47.00	25.36	3.46	34.94
PK	3.4869G	49.20	68.20	-19.00	-0.51	3	Horizontal	48	1.50	49.71	29.30	5.18	34.99
PK	5.83242G	47.72	68.20	-20.48	6.04	3	Horizontal	10	1.07	41.68	33.90	6.93	34.79

Radiated Emissions above 1GHz_Mode 3



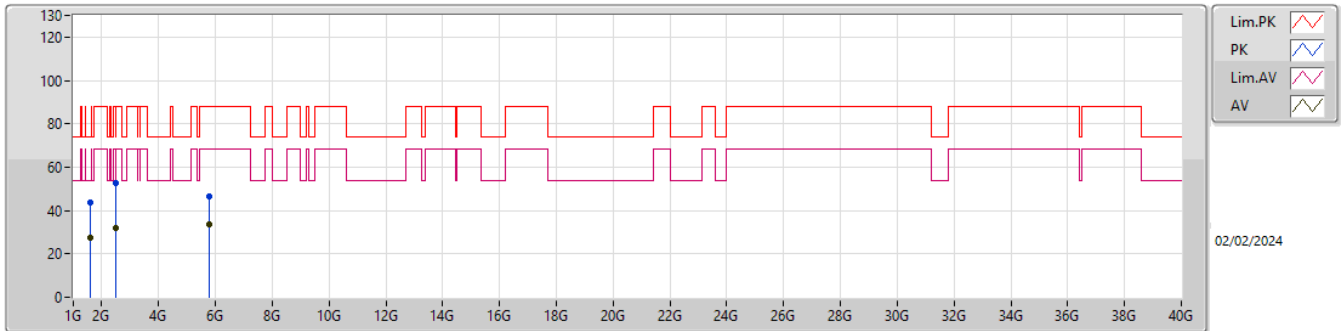
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.59494G	26.37	54.00	-27.63	-6.13	3	Vertical	185	1.50	32.50	25.35	3.46	34.94
AV	3.24866G	30.99	68.20	-37.21	-0.53	3	Vertical	26	2.43	31.52	29.51	4.98	35.02
AV	5.17222G	34.43	68.20	-33.77	4.69	3	Vertical	252	2.39	29.74	33.01	6.43	34.75
PK	1.59758G	39.90	74.00	-34.10	-6.15	3	Vertical	185	1.50	46.05	25.32	3.47	34.94
PK	3.24542G	43.38	88.20	-44.82	-0.52	3	Vertical	26	2.43	43.90	29.52	4.98	35.02
PK	5.16898G	46.34	88.20	-41.86	4.70	3	Vertical	252	2.39	41.64	33.02	6.43	34.75

Radiated Emissions above 1GHz_Mode 3



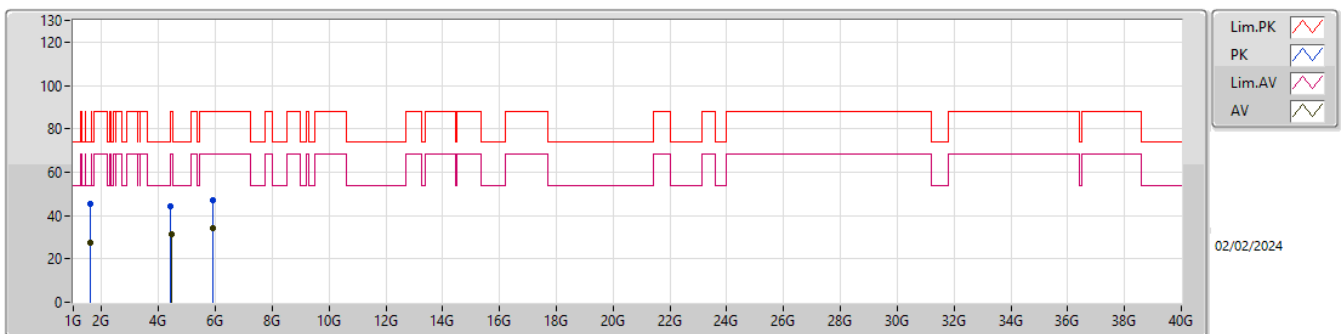
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.59736G	28.56	54.00	-25.44	-6.14	3	Horizontal	353	1.50	34.70	25.33	3.47	34.94
AV	3.7252G	31.51	54.00	-22.49	0.32	3	Horizontal	124	1.21	31.19	29.85	5.39	34.92
AV	4.9867G	34.12	54.00	-19.88	4.57	3	Horizontal	73	1.46	29.55	33.05	6.29	34.77
PK	1.59712G	41.65	74.00	-32.35	-6.14	3	Horizontal	353	1.50	47.79	25.33	3.47	34.94
PK	3.71488G	43.53	74.00	-30.47	0.24	3	Horizontal	124	1.21	43.29	29.79	5.38	34.93
PK	4.99624G	46.87	74.00	-27.13	4.61	3	Horizontal	73	1.46	42.26	33.08	6.30	34.77

Radiated Emissions above 1GHz_Mode 4



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.59763G	27.26	54.00	-26.74	-6.15	3	Vertical	220	1.27	33.41	25.32	3.47	34.94
AV	2.50491G	32.01	68.20	-36.19	-3.01	3	Vertical	290	1.96	35.02	27.65	4.32	34.98
AV	5.80438G	33.41	68.20	-34.79	6.02	3	Vertical	284	1.49	27.39	33.90	6.90	34.78
PK	1.59645G	43.66	74.00	-30.34	-6.13	3	Vertical	220	1.27	49.79	25.34	3.47	34.94
PK	2.51432G	52.52	88.20	-35.68	-2.91	3	Vertical	290	1.96	55.43	27.74	4.33	34.98
PK	5.79535G	46.41	88.20	-41.79	5.99	3	Vertical	284	1.49	40.42	33.87	6.90	34.78

Radiated Emissions above 1GHz_Mode 4



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.59628G	27.45	54.00	-26.55	-6.13	3	Horizontal	335	2.26	33.58	25.34	3.47	34.94
AV	4.45454G	31.17	68.20	-37.03	2.38	3	Horizontal	15	1.50	28.79	31.49	5.80	34.91
AV	5.89774G	34.20	68.20	-34.00	6.27	3	Horizontal	360	1.50	27.93	34.09	6.98	34.80
PK	1.5994G	45.56	74.00	-28.44	-6.16	3	Horizontal	335	2.26	51.72	25.31	3.47	34.94
PK	4.43234G	44.02	88.20	-44.18	2.37	3	Horizontal	15	1.50	41.65	31.50	5.78	34.91
PK	5.90392G	46.87	88.20	-41.33	6.28	3	Horizontal	360	1.50	40.59	34.09	6.99	34.80