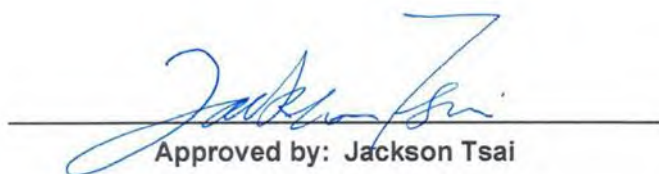


FCC Radio Test Report

Contains FCC ID : RI7LN920
FCC ID : 2AWUU68B66001
Equipment : Outdoor Remote Deployment Camera
Brand Name : Verkada
Model Name : CR63-XXxE-HW (X is any alphanumeric character, blank, or "-" for marketing purpose only.)
Applicant : VERKADA INC
405 E. 4th Ave, San Mateo, CA 94401, United States
Manufacturer : VERKADA INC
405 E. 4th Ave, San Mateo, CA 94401, United States
Standard : 47 CFR FCC Part 15.247

The product was received on Sep. 02, 2025, and testing was started from Oct. 17, 2025 and completed on Oct. 30, 2025. 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 C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024 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.)



Table of Contents

HISTORY OF THIS TEST REPORT	3
SUMMARY OF TEST RESULT	4
1 GENERAL DESCRIPTION	5
1.1 Information.....	5
1.2 Testing Applied Standards	7
1.3 Testing Location Information	7
1.4 Measurement Uncertainty	7
2 TEST CONFIGURATION OF EUT.....	8
2.1 Test Channel Mode	8
2.2 The Worst Case Measurement Configuration.....	9
2.3 Accessories	10
2.4 Support Equipment.....	10
2.5 Test Setup Diagram	11
3 TRANSMITTER TEST RESULT	12
3.1 AC Power-line Conducted Emissions	12
3.2 DTS Bandwidth.....	14
3.3 Maximum Conducted Output Power	15
3.4 Power Spectral Density	17
3.5 Emissions in Non-restricted Frequency Bands	18
3.6 Emissions in Restricted Frequency Bands.....	19
4 TEST EQUIPMENT AND CALIBRATION DATA.....	23
APPENDIX A. TEST RESULTS OF AC POWER-LINE CONDUCTED EMISSIONS	
APPENDIX B. TEST RESULTS OF DTS BANDWIDTH	
APPENDIX C. TEST RESULTS OF MAXIMUM CONDUCTED OUTPUT POWER	
APPENDIX D. TEST RESULTS OF POWER SPECTRAL DENSITY	
APPENDIX E. TEST RESULTS OF EMISSIONS IN NON-RESTRICTED FREQUENCY BANDS	
APPENDIX F. TEST RESULTS OF EMISSIONS IN RESTRICTED FREQUENCY BANDS	
APPENDIX G. TEST RESULTS OF RADIATED EMISSION CO-LOCATION	
APPENDIX H. TEST PHOTOS	
PHOTOGRAPHS OF EUT V01	



History of this test report

TEL : 886-3-3273456
FAX : 886-3-3270973
Report Template No.: HE1-C10 Ver4.4
FCC ID: 2AWUU68B66001

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:

The EUT is considered a Class A device. After verification, the frequency 142.52 MHz in the Radiated Emissions below 1GHz Test was excluded, which was not generated by the RF transmitter. However, it is complied with FCC Part 15 Subpart B Class A limit.

Reviewed by: Barry Hsiao

Report Producer: Michelle Tsai

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
2.4-2.4835GHz	BT-LE(125kbps)	1.0	1TX
2.4-2.4835GHz	BT-LE(500kbps)	1.0	1TX

Note:

- ♦ Bluetooth LE uses a GFSK (1Mbps/2Mbps/125kbps/500kbps) modulation.
- ♦ BWch is the nominal channel bandwidth.
- ♦ Bluetooth LE 125k/500k/1Mbps uses the same modulation, and 1Mbps was found to be the worst case scenario which was performed full test and recorded in this test report.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Support	Radio
1	SPEED	0790A2331L-B01	PIFA	I-Pex	LTE	WWAN
2	SPEED	0790A2331L-C06	Monopole	I-Pex	LTE	WWAN
3	SPEED	0790A2331L-A07	Dipole	I-Pex	BT	Bluetooth

Ant.	Port	Gain (dBi)
		Bluetooth
3	1	2.62

For BT function:

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

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

1.1.3 EUT Information

Operational Condition			
EUT Power Type	From PoE		
EUT Function	☒ Point-to-multipoint	☐ Point-to-point	
Type of EUT			
☒	Stand-alone		
☐	Combined (EUT where the radio part is fully integrated within another device)		
	Combined Equipment - Brand Name / Model No.:	...	
☐	Plug-in radio (EUT intended for a variety of host systems)		
	Host System - Brand Name / Model No.:	...	
☐	Other:		

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF (dB)	T (s)	VBW (Hz) 1/T
BT-LE(1Mbps)	0.632	1.99	395.625u	3k
BT-LE(2Mbps)	0.335	4.75	209.375u	5k

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

1.1.5 Table for Multiple Listing

Model Name	Description
CR63-XXxE-HW (X is any alphanumeric character, blank, or "-" for marketing purpose only.)	All the models are identical, the different model served as marketing strategy.

Note: The model CR63-E-HW was measured during the test.

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 C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024
- The following reference test guidance is not within the scope of accreditation of TAF:
- ♦ KDB 558074 D01 v05r02
 - ♦ KDB 414788 D01 v01r01

1.3 Testing Location Information

Test Lab. : Sporton International Inc. Hsinhua Laboratory				
☒ Hsinhua (TAF: 3785)	ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)			
	TEL: 886-3-327-3456		FAX: 886-3-327-0973	
Test site Designation No. TW3785 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Jack Tang	21.1~21.8℃ / 62~65%	24/Oct/2025
Radiated (Co-location)	03CH02-HY	Andy Wang	21.9~23.1℃ / 52~55%	30/Oct/2025
☒ 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			
RF : Test site Designation No. TW0036 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH06-HY	Johnny Yu	22.7~23.1℃ / 52~55%	30/Oct/2025
☒ Wen 33rd.St. (TAF: 3785)	ADD: No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)			
	TEL: 886-3-318-0787		FAX: 886-3-318-0287	
Test site Designation No. TW0008 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
Radiated	03CH09-HY	Lego Lin	23.8~25.1℃ / 53~56%	17/Oct/2025~29/Oct/2025

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	3.44 dB	Confidence levels of 95%
Conducted Output Power	1.48 dB	Confidence levels of 95%
Bandwidth	0.05 MHz	Confidence levels of 95%
Conducted Emission	1.48 dB	Confidence levels of 95%
Power Spectral Density	1.22 dB	Confidence levels of 95%
Radiated Emission (9 kHz ~ 30 MHz)	2.9 dB	Confidence levels of 95%
Radiated Emission (30 MHz ~ 1 GHz)	5.64 dB	Confidence levels of 95%
Radiated Emission (1 GHz ~ 18 GHz)	5.02 dB	Confidence levels of 95%
Radiated Emission (18 GHz ~ 40 GHz)	5.28 dB	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	Default
2440MHz	Default
2480MHz	Default
BT-LE(2Mbps)	-
2402MHz	Default
2440MHz	Default
2480MHz	Default

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	CTX
1	PoE Mode

The Worst Case Mode for Following Conformance Tests	
Tests Item	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	PoE Mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT			V

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Test Condition	Radiated measurement
Operating Mode	CTX
1	WWAN(LTE) + Bluetooth
Refer to Sporton Test Report No.: FA590115 for Co-location RF Exposure Evaluation and Appendix G for Radiated Emission Co-location.	

2.3 Accessories

Accessories				
Pigtail Cable	Brand Name	Verkada	Model Name	0950A2331L-A03
	Power Cord	0.18 meter, non-shielded cable, w/o ferrite core		
PoE Pigtail Cable	Brand Name	Verkada	Model Name	0950A2331L-A02
	Power Cord	0.45 meter, non-shielded cable, w/o ferrite core		
MC4 Pigtail Cable	Brand Name	Verkada	Model Name	0950A2331L-A01
	Power Cord	0.88 meter, non-shielded cable, w/o ferrite core		
Small Pole Straps*2	Brand Name	Verkada	Model Name	2070A2331L-A36
Large Pole Straps*2	Brand Name	Verkada	Model Name	2070A2331L-A35
Mount Plate	Brand Name	Verkada	Model Name	2070A2331L-A14
Pole Mount	Brand Name	Verkada	Model Name	2070A2331L-B15

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

2.4 Support Equipment

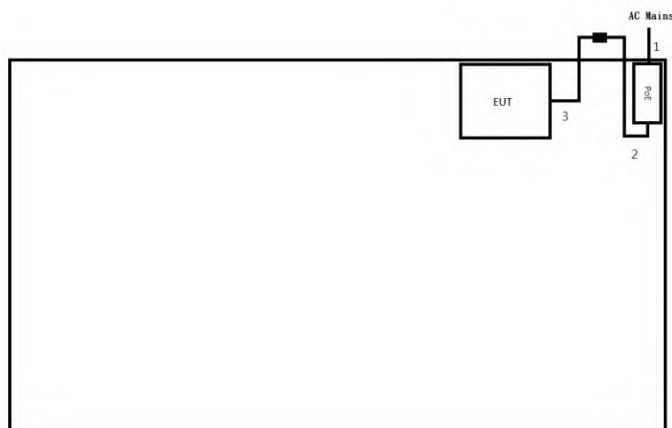
Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	RJ45 Cable	Power sync	CAT-6E-03	-	-
2	PoE	tp-link	POE4824G	-	Provided by Customer
3	AC Power Cable	Power Sync	TPCMRN0006	-	-

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	RJ45 Cable	Power sync	CAT-6E-03	-	-
2	PoE	tp-link	POE4824G	-	Provided by Customer/ Remote
3	AC Power Cable	Power Sync	TPCMRN0006	-	Provided by Customer/ Remote

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-
3	DC12V Adapter	Verkada	DA-80A54	-	-
4	PoE Adapter	tp-link	POE4824G	-	Provided by Customer

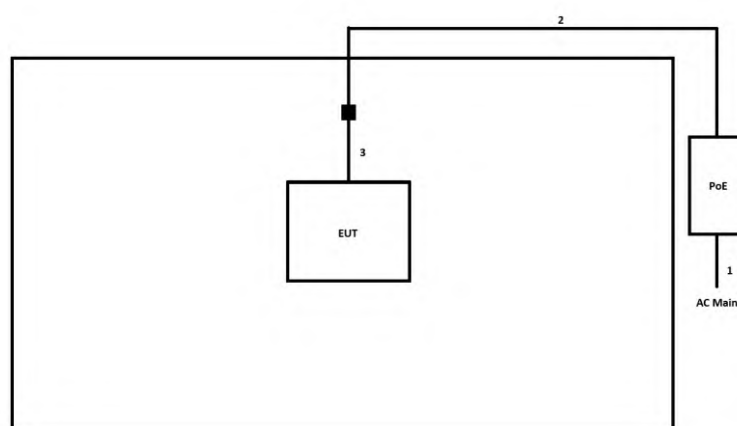
2.5 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	0.8	-
2	RJ45 Cable	No	3.0	-
3	PoE Pigtail Cable	No	0.45	-

Test Setup Diagram - Radiated Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	0.8	-
2	RJ45 Cable	No	3.0	-
3	PoE Pigtail Cable	No	0.45	-

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

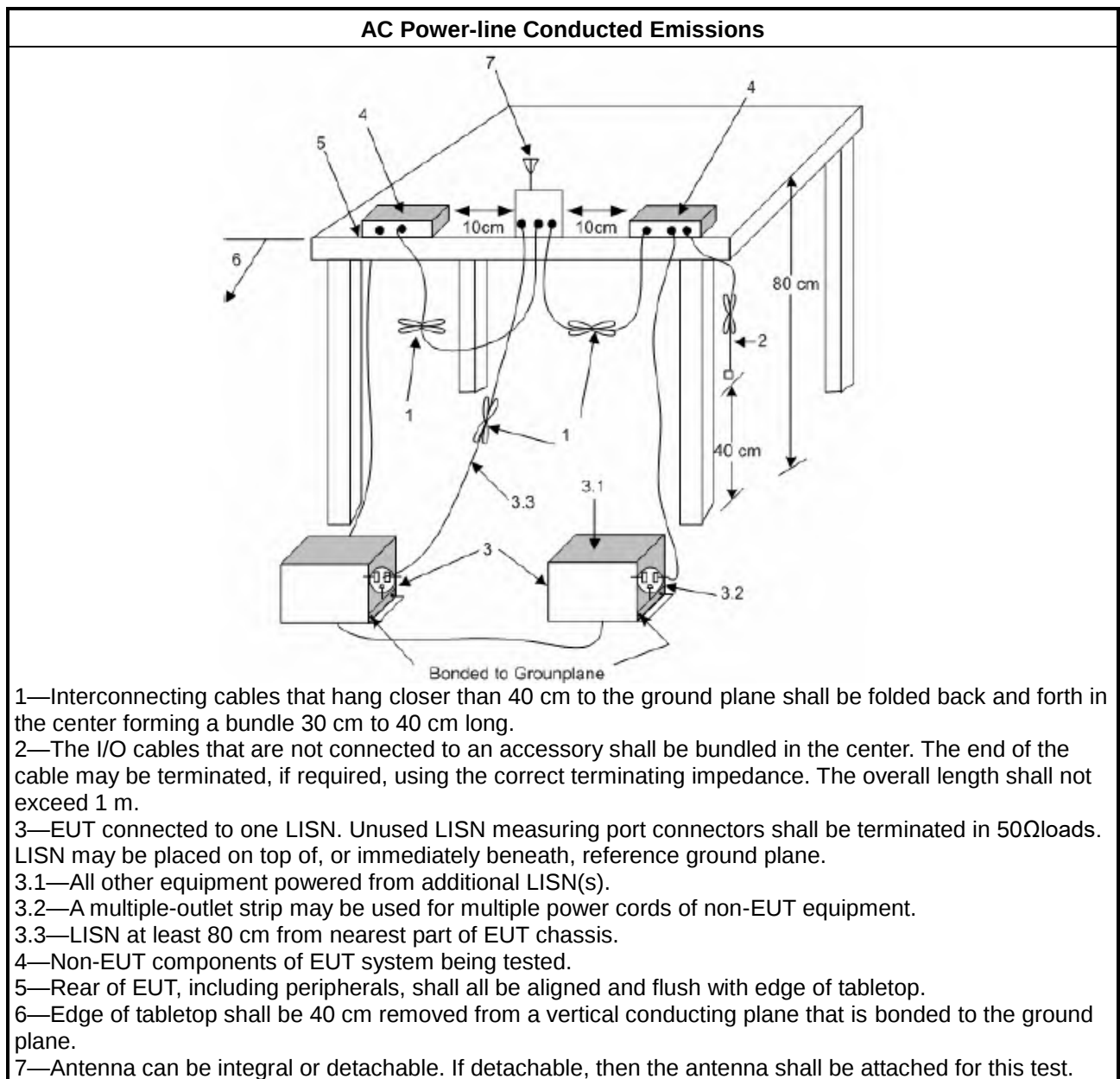
Test Method
▪ Refer as ANSI C63.10, clause 6.2 foray power-line conducted emissions.

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.

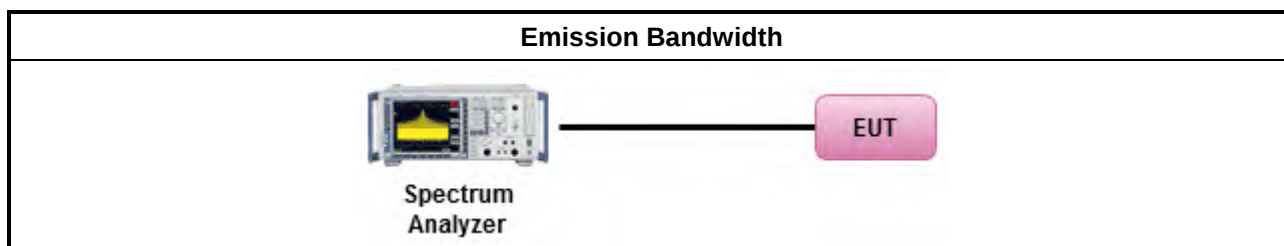
3.2.2 Measuring Instruments

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:
☒	Refer as KDB 558074, clause 8.2 (11.8 of ANSI C63.10) DTS bandwidth measurement.
☐	Refer as RSS-Gen, clause 6.7 for occupied bandwidth testing.
☐	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	
	If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)
	Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm
	Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	Smart antenna system (SAS):
	- Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	- Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	- 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:	
	2400-2483.5 MHz Band
	Point-to-multipoint systems (P2M): $P_{eirp} \leq 36$ dBm (4 W)
	Point-to-point systems (P2P): $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX}])$ dBm
	Smart antenna system (SAS)
	- Single beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	- Overlap beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	- 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.	

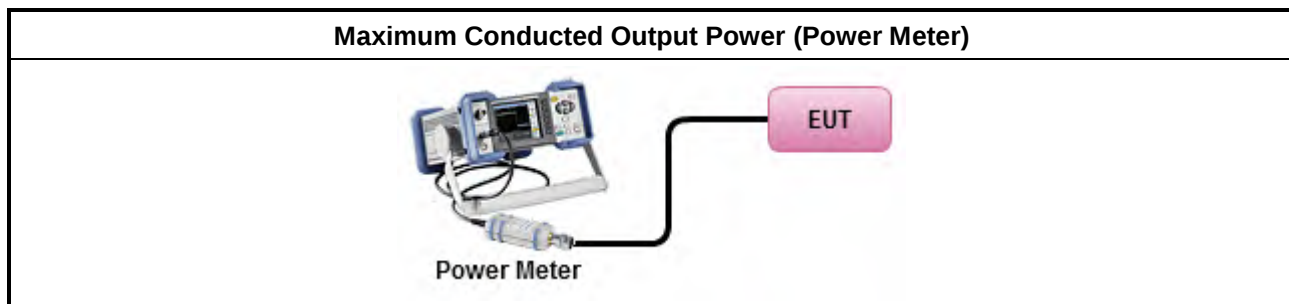
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
Maximum Peak Conducted Output Power	
☐	Refer as KDB 558074, clause 8.3.1.1 (11.9.1.1 of ANSI C63.10) RBW ≥ EBW method.
☐	Refer as KDB 558074, clause 8.3.1.2 integrated band power method.
☐	Refer as KDB 558074, clause 8.3.1.3 (11.9.1.2 of ANSI C63.10) peak power meter.
Maximum Average Conducted Output Power	
☐	Refer as KDB 558074, clause 8.3.2.2 (11.9.2.2 of ANSI C63.10) using a spectrum analyzer.
☒	Refer as KDB 558074, clause 8.3.2.3 (11.9.2.3 of ANSI C63.10) using a power meter.
For conducted measurement.	
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.	
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
Power Spectral Density (PSD) ≤ 8 dBm/3kHz

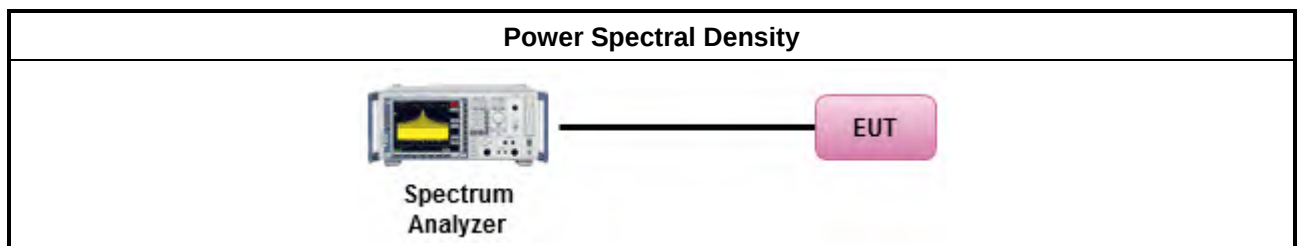
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method
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).
☒ Refer as KDB 558074, clause 8.4 (11.10 of ANSI C63.10) Max. PSD.
For conducted measurement.
If The EUT supports multiple transmit chains using options given below:
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.	

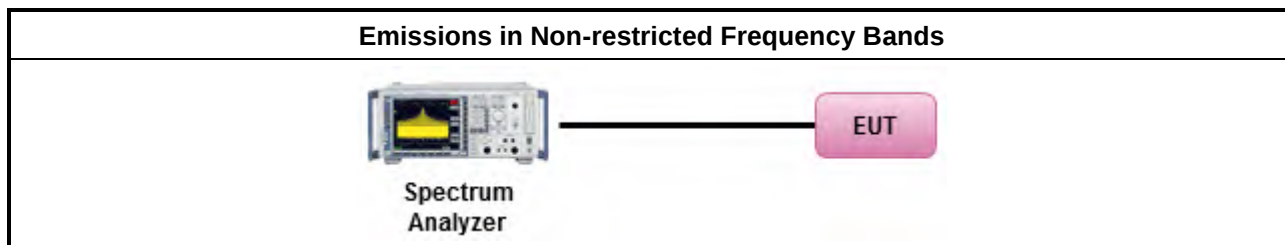
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method
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

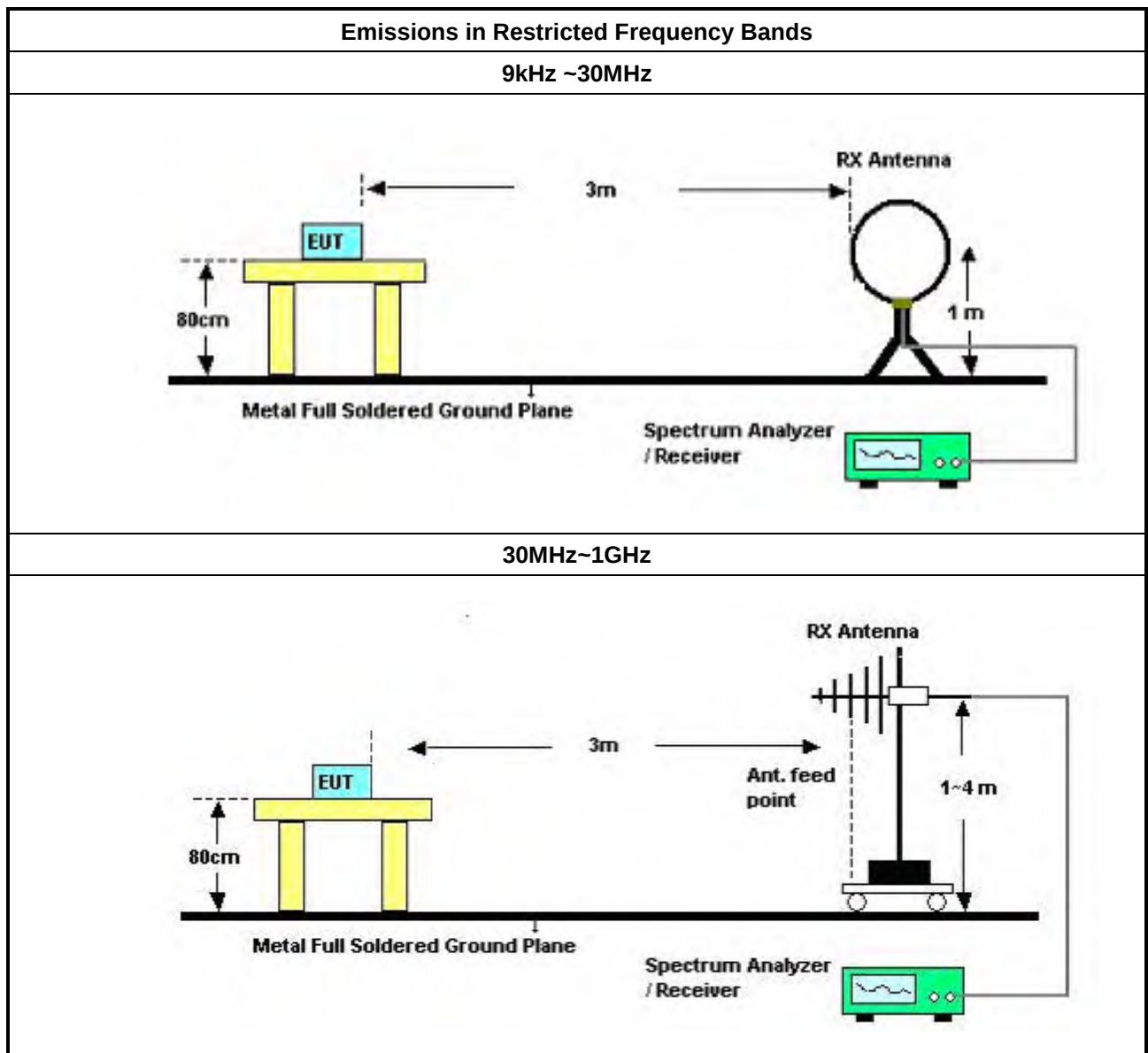
Test Method	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
For the transmitter unwanted emissions shall be measured using following options below:	
	Refer as KDB 558074, clause 8.6 (11.12 of ANSI C63.10) for restricted frequency bands.
For the transmitter band-edge emissions shall be measured using following options below:	
	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.
Use the following spectrum analyzer settings:	
	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.
KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.	
	Based on FCC 15.31(f)(2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
	Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

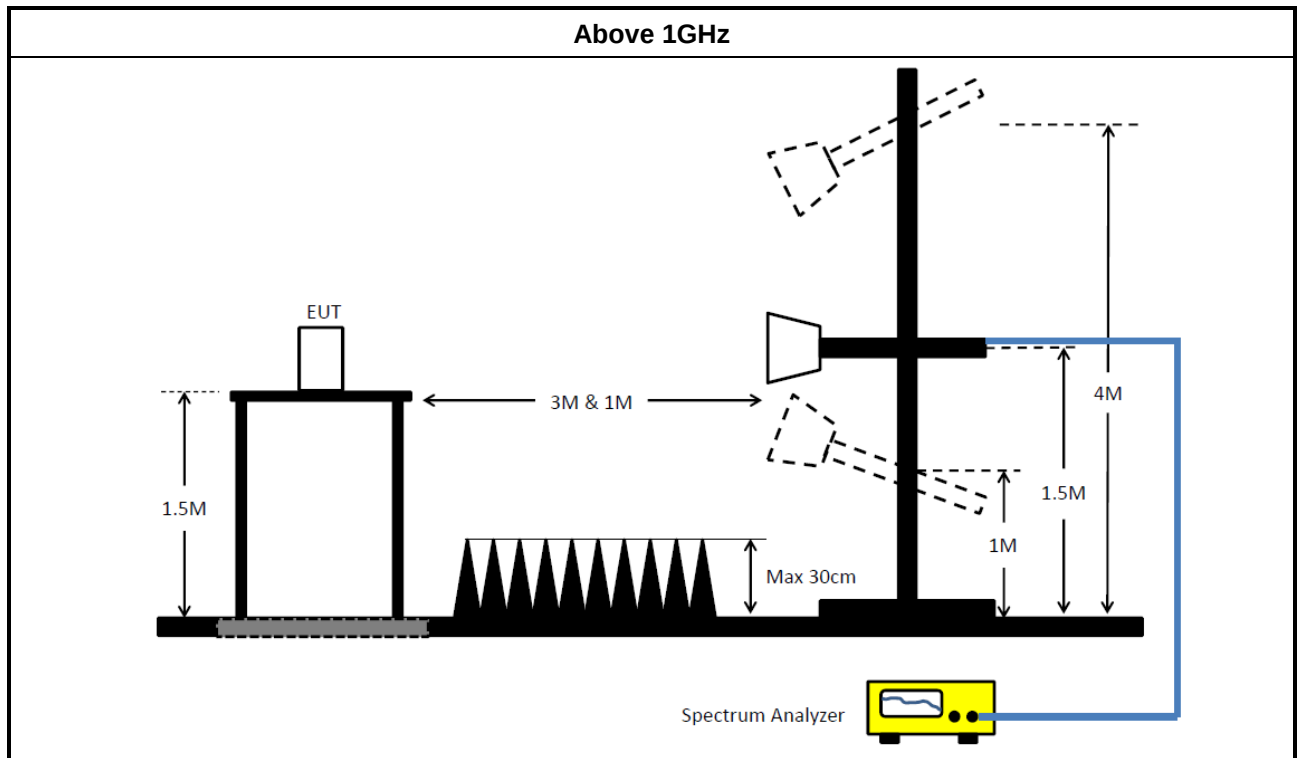
3.6.4 Measurement Results Calculation

The measured Level is calculated using:

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

3.6.5 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	ROHDE & SCHWARZ	ESR3	102051	9kHz ~ 3.6GHz	21/May/2025	20/May/2026
Two-Line V-Network	ROHDE & SCHWARZ	ENV 216	101578	9kHz ~ 30MHz	24/Aug/2025	23/Aug/2026
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	26/Feb/2025	25/Feb/2026
Pulse Limiter	SCHWARZBECK	VTSD 9561F-N	1056	9kHz ~ 30MHz	25/Jun/2025	24/Jun/2026
Software	Sporton	SENSE-EMI	V5.11.6	-	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	FSV3044	101345	10Hz~44GHz	26/Aug/2025	25/Aug/2026
SMB100A Signal Generator	R&S	SMB100A03	183621	23kHz~40GHz	01/Feb/2025	01/Jan/2026
Power Meter	Anritsu	ML2495A	1124009	300MHz~40GHz	28/Mar/2025	27/Mar/2026
Pulse Sensor	Anritsu	MA2411B	1027452	300MHz~40GHz	28/Mar/2025	27/Mar/2026
SENSE-15247_FS	Sporton	V5.11.27	N/A	N/A	N/A	N/A

Instrument for Radiated Test (03CH02-HY)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Site V.S.W.R	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3M	12/Jul/2025	11/Jul/2026
EMI Test Receiver	R&S	ESR	102052	9kHz~3.6GHz	14/May/2025	13/May/2026
Signal Analyzer	ROHDE & SCHWARZ	FSV3044	101750	10Hz~44GHz	10/Apr/2025	09/Apr/2026
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02268	1GHz~18GHz	03/Oct/2025	02/Oct/2026
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170154	18GHz~40GHz	02/Jul/2025	01/Jul/2026
RF Cable HUBER+SUHNER	HUBER+SUHNER	SUCOFLEX 104	03CH02-cable-06	1GHz~40GHz	15/Aug/2025	14/Aug/2026
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz~26.5GHz	30/Sep/2025	29/Sep/2026
Microwave Preamplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~40GHz	26/Apr/2025	25/Apr/2026
SENSE-15407-EMI	Sporton	V5.11.9	N/A	N/A	26/Apr/2025	25/Apr/2026

Instrument for Radiated Test (03CH09-HY)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	30MHz~1GHz 3m	07/Mar/2025	06/Mar/2026
Site V.S.W.R	TDK	SAC-3M	03CH09-HY	1GHz~18GHz 3m	06/Mar/2025	05/Mar/2026
EMI Test Receiver	ROHDE & SCHWARZ	ESR	102318	9kHz~3.6GHz	06/Dec/2024	05/Dec/2025
Signal Analyzer	R&S	FSV40	101500	10Hz~40GHz	01/Nov/2024	31/Oct/2025
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	20/Mar/2025	19/Mar/2026
Bilog Antenna & 5dB Attenuator	TESEQ & MTJ	CBL6111D&MT J6102-05	35418 & 3	30MHz~1GHz	25/Aug/2025	24/Aug/2026
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1531	1GHz ~ 18GHz	20/Dec/2024	19/Dec/2025
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	01248	18GHz~40GHz	07/Oct/2025	06/Oct/2026
RF Cable-R03m	Jye Bao	RG142	03CH09-cable-01	9kHz~1GHz	19/Feb/2025	18/Feb/2026
RF CABLE 5m+3m+1m	HUBER+ SUHNER	SUCOFLEX104	03CH09-cable-02	1GHz~40GHz	09/Oct/2025	08/Oct/2026
Amplifier	EMC	EMC9135	980232	9kHz~1GHz	09/Apr/2025	08/Apr/2026
Microwave Preamplifier	Agilent	8449B	3008A02096	1GHz~26.5GHz	17/Jul/2025	16/Jul/2026
Amplifier	EM	EM18G40GA	060874	18GHz~40GHz	18/Apr/2025	17/Apr/2026
SENSE-15247_FS	Sporton	V5.11.23	NA	NA	NA	NA



Conducted Emissions at Powerline

Appendix A

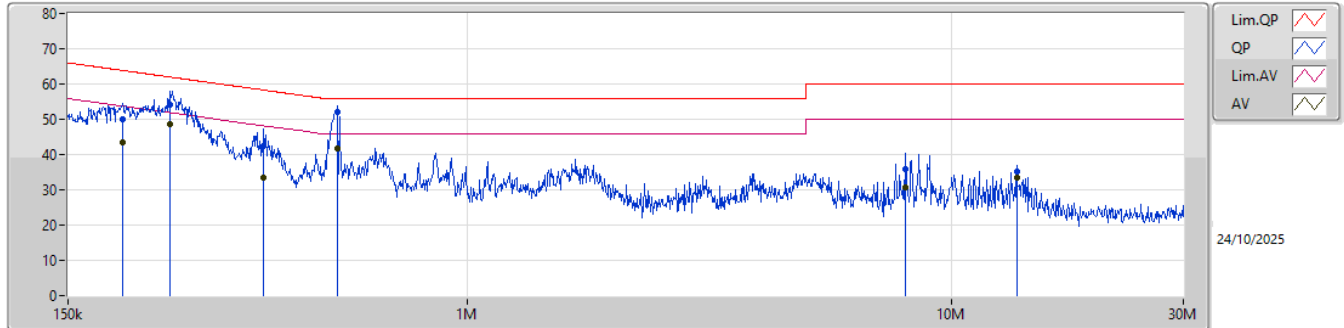
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	244.12k	48.48	51.95	-3.47	Line

Result

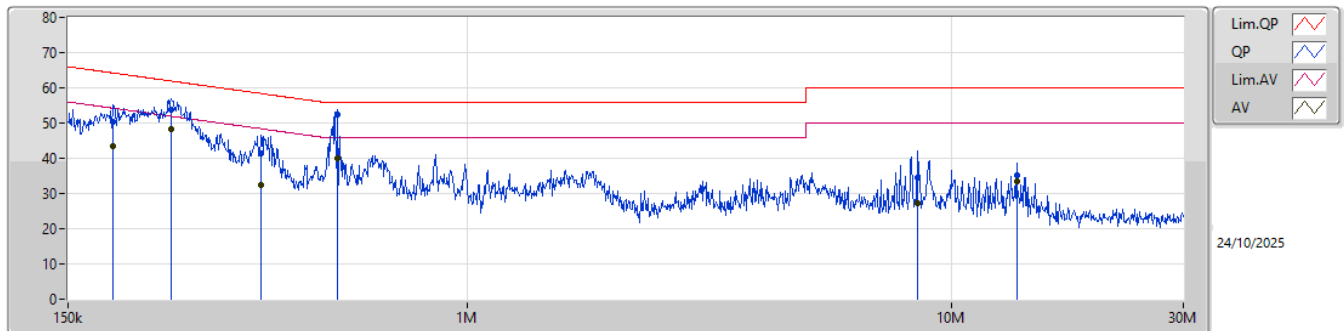
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	194.439k	50.14	63.84	-13.70	Line
Mode 1	Pass	AV	194.439k	43.60	53.84	-10.24	Line
Mode 1	Pass	QP	244.12k	54.17	61.95	-7.78	Line
Mode 1	Pass	AV	244.12k	48.48	51.95	-3.47	Line
Mode 1	Pass	QP	380.23k	42.42	58.28	-15.86	Line
Mode 1	Pass	AV	380.23k	33.54	48.28	-14.74	Line
Mode 1	Pass	QP	538.12k	51.98	56.00	-4.02	Line
Mode 1	Pass	AV	538.12k	41.69	46.00	-4.31	Line
Mode 1	Pass	QP	8.028M	35.71	60.00	-24.29	Line
Mode 1	Pass	AV	8.028M	30.69	50.00	-19.31	Line
Mode 1	Pass	QP	13.597M	35.16	60.00	-24.84	Line
Mode 1	Pass	AV	13.597M	33.39	50.00	-16.61	Line
Mode 1	Pass	QP	185.344k	50.28	64.24	-13.96	Neutral
Mode 1	Pass	AV	185.344k	43.45	54.24	-10.79	Neutral
Mode 1	Pass	QP	245.097k	53.93	61.93	-8.00	Neutral
Mode 1	Pass	AV	245.097k	48.32	51.93	-3.61	Neutral
Mode 1	Pass	QP	375.703k	41.49	58.37	-16.88	Neutral
Mode 1	Pass	AV	375.703k	32.41	48.37	-15.96	Neutral
Mode 1	Pass	QP	540.273k	52.25	56.00	-3.75	Neutral
Mode 1	Pass	AV	540.273k	39.87	46.00	-6.13	Neutral
Mode 1	Pass	QP	8.489M	34.53	60.00	-25.47	Neutral
Mode 1	Pass	AV	8.489M	27.29	50.00	-22.71	Neutral
Mode 1	Pass	QP	13.597M	35.28	60.00	-24.72	Neutral
Mode 1	Pass	AV	13.597M	33.39	50.00	-16.61	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	194.439k	50.14	63.84	-13.70	19.77	Line	-	30.37	9.64	0.01	10.12						
AV	194.439k	43.60	53.84	-10.24	19.77	Line	-	23.83	9.64	0.01	10.12						
QP	244.12k	54.17	61.95	-7.78	19.78	Line	-	34.39	9.64	0.02	10.12						
AV	244.12k	48.48	51.95	-3.47	19.78	Line	-	28.70	9.64	0.02	10.12						
QP	380.23k	42.42	58.28	-15.86	19.78	Line	-	22.64	9.63	0.03	10.12						
AV	380.23k	33.54	48.28	-14.74	19.78	Line	-	13.76	9.63	0.03	10.12						
QP	538.12k	51.98	56.00	-4.02	19.79	Line	-	32.19	9.63	0.04	10.12						
AV	538.12k	41.69	46.00	-4.31	19.79	Line	-	21.90	9.63	0.04	10.12						
QP	8.028M	35.71	60.00	-24.29	20.01	Line	-	15.70	9.68	0.19	10.14						
AV	8.028M	30.69	50.00	-19.31	20.01	Line	-	10.68	9.68	0.19	10.14						
QP	13.597M	35.16	60.00	-24.84	20.06	Line	-	15.10	9.66	0.27	10.13						
AV	13.597M	33.39	50.00	-16.61	20.06	Line	-	13.33	9.66	0.27	10.13						

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	185.344k	50.28	64.24	-13.96	19.76	Neutral	-	30.52	9.63	0.01	10.12						
AV	185.344k	43.45	54.24	-10.79	19.76	Neutral	-	23.69	9.63	0.01	10.12						
QP	245.097k	53.93	61.93	-8.00	19.77	Neutral	-	34.16	9.63	0.02	10.12						
AV	245.097k	48.32	51.93	-3.61	19.77	Neutral	-	28.55	9.63	0.02	10.12						
QP	375.703k	41.49	58.37	-16.88	19.78	Neutral	-	21.71	9.63	0.03	10.12						
AV	375.703k	32.41	48.37	-15.96	19.78	Neutral	-	12.63	9.63	0.03	10.12						
QP	540.273k	52.25	56.00	-3.75	19.79	Neutral	-	32.46	9.63	0.04	10.12						
AV	540.273k	39.87	46.00	-6.13	19.79	Neutral	-	20.08	9.63	0.04	10.12						
QP	8.489M	34.53	60.00	-25.47	20.04	Neutral	-	14.49	9.69	0.21	10.14						
AV	8.489M	27.29	50.00	-22.71	20.04	Neutral	-	7.25	9.69	0.21	10.14						
QP	13.597M	35.28	60.00	-24.72	20.10	Neutral	-	15.18	9.70	0.27	10.13						
AV	13.597M	33.39	50.00	-16.61	20.10	Neutral	-	13.29	9.70	0.27	10.13						

**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)	677.5k	1.051M	1M05F1D	592.5k	1.049M
BT-LE(2Mbps)	597.5k	2.087M	2M09F1D	567.5k	2.082M

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

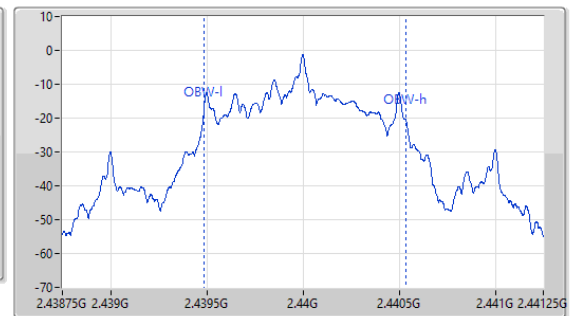
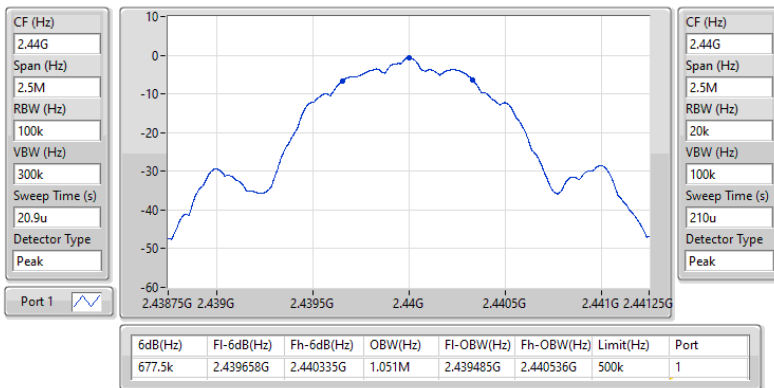
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	500k	592.5k	1.049M
2440MHz	Pass	500k	677.5k	1.051M
2480MHz	Pass	500k	651.25k	1.049M
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	500k	567.5k	2.087M
2440MHz	Pass	500k	597.5k	2.085M
2480MHz	Pass	500k	587.5k	2.082M

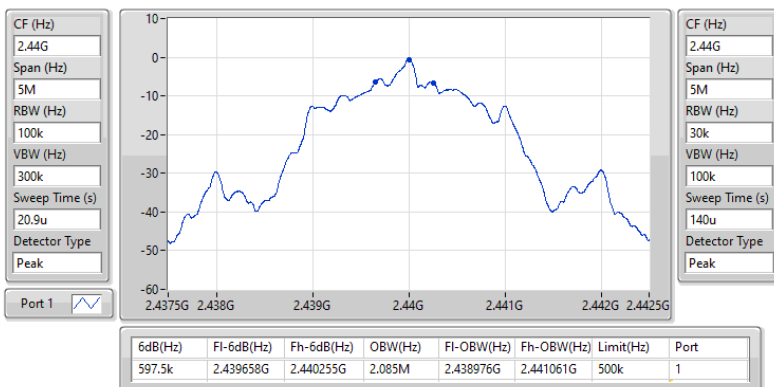
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_BT-LE(1Mbps)
EBW-DTS
2440MHz

30/10/2025


2.4-2.4835GHz_BT-LE(2Mbps)
EBW-DTS
2440MHz

30/10/2025





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	-0.03	0.00099
BT-LE(2Mbps)	-0.14	0.00097

**Result**

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	2.62	-1.29	30.00
2440MHz	Pass	2.62	-0.03	30.00
2480MHz	Pass	2.62	-1.02	30.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	2.62	-1.37	30.00
2440MHz	Pass	2.62	-0.14	30.00
2480MHz	Pass	2.62	-1.17	30.00

DG = Directional Gain; Port X = Port X output power;
Inf = There's no restriction for the limit.



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
BT-LE(1Mbps)	-3.13
BT-LE(2Mbps)	-6.26

RBW = 3kHz;



Result

Mode	Result	DG (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	2.62	-5.69	8.00
2440MHz	Pass	2.62	-3.13	8.00
2480MHz	Pass	2.62	-3.14	8.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	2.62	-11.49	8.00
2440MHz	Pass	2.62	-6.26	8.00
2480MHz	Pass	2.62	-12.41	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;
Inf = There's no restriction for the limit.

2.4-2.4835GHz_BT-LE(1Mbps)

PSD

2440MHz

30/10/2025

CF (Hz)
2.44G

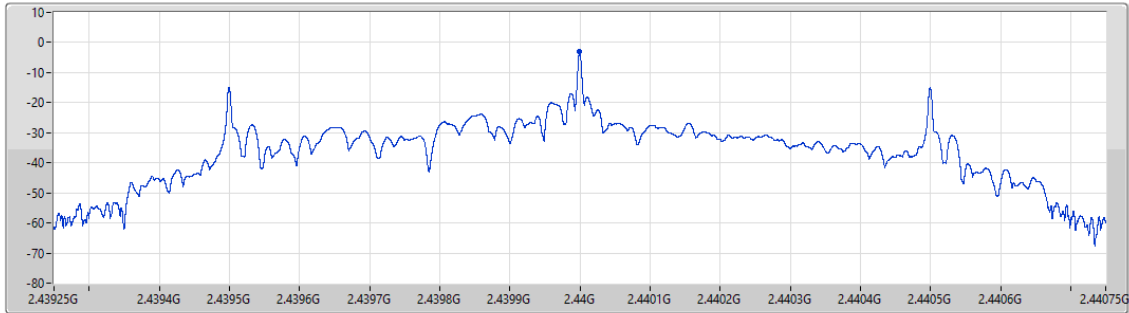
Span (Hz)
1.5M

RBW (Hz)
3k

VBW (Hz)
10k

Sweep Time (s)
1.4m

Detector Type
Peak



Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-3.13	-3.13	-3.13

2.4-2.4835GHz_BT-LE(2Mbps)

PSD

2440MHz

30/10/2025

CF (Hz)
2.44G

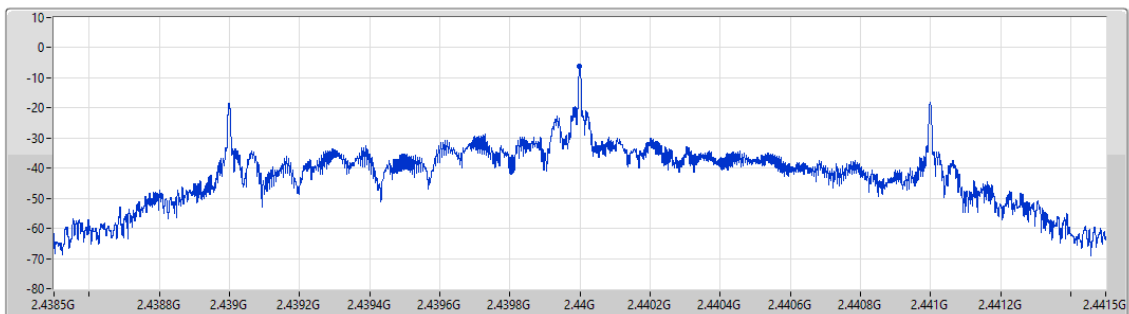
Span (Hz)
3M

RBW (Hz)
3k

VBW (Hz)
10k

Sweep Time (s)
1.4m

Detector Type
Peak



Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-6.26	-6.26	-6.26



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	2.44008G	-0.83	-30.83	1.9805G	-55.81	2.394G	-50.06	2.4G	-54.56	2.50094G	-53.66	21.72676G	-45.17	1
BT-LE(2Mbps)	Pass	2.44008G	-0.87	-30.87	2.3048G	-54.36	2.4G	-31.92	2.4G	-32.48	2.50266G	-53.48	21.95172G	-45.20	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	2.44008G	-0.83	-30.83	1.9805G	-55.81	2.394G	-50.06	2.4G	-54.56	2.50094G	-53.66	21.72676G	-45.17	1
2440MHz	Pass	2.44008G	-0.83	-30.83	2.10623G	-56.08	2.39212G	-52.71	2.4G	-56.64	2.5031G	-53.09	21.63396G	-44.19	1
2480MHz	Pass	2.44008G	-0.83	-30.83	2.08508G	-55.52	2.3958G	-53.54	2.4G	-57.15	2.50186G	-53.15	21.70145G	-45.15	1
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.44008G	-0.87	-30.87	2.3048G	-54.36	2.4G	-31.92	2.4G	-32.48	2.50266G	-53.48	21.95172G	-45.20	1
2440MHz	Pass	2.44008G	-0.87	-30.87	2.19553G	-55.08	2.39388G	-52.45	2.4G	-57.27	2.5009G	-53.32	21.53273G	-45.09	1
2480MHz	Pass	2.44008G	-0.87	-30.87	2.1262G	-55.79	2.3902G	-52.84	2.4G	-56.51	2.50002G	-52.12	21.60303G	-43.71	1

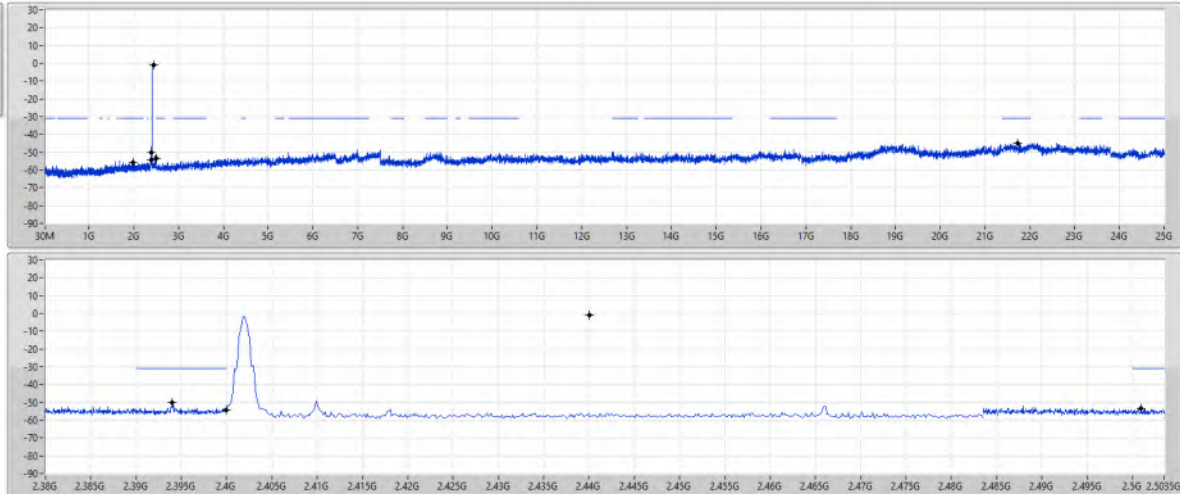
2.4-2.4835GHz_BT-LE(1Mbps)

CSEndB-DTS

2402MHz

30/10/2025

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



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44020G	-0.83	-30.83	1.9805G	-55.81	2.394G	-50.06	2.4G	-54.56	2.50094G	-53.66	21.72676G	-45.17	1

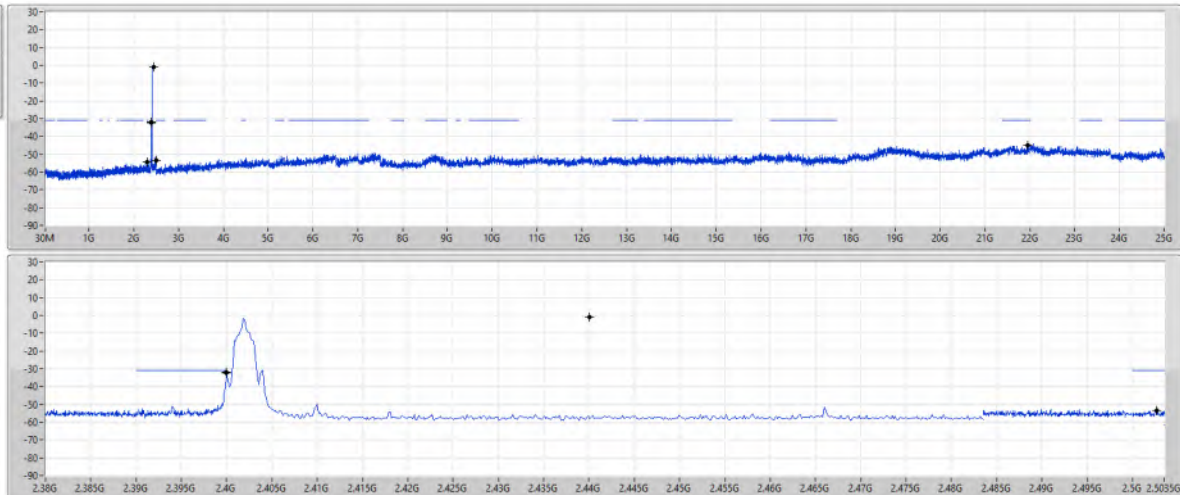
2.4-2.4835GHz_BT-LE(2Mbps)

CSEndB-DTS

2402MHz

30/10/2025

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



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44020G	-0.87	-30.87	2.3048G	-54.36	2.4G	-31.92	2.4G	-32.48	2.50266G	-53.48	21.95172G	-45.20	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	QP	142.52M	46.18	-	-	3	Vertical	194	1.00

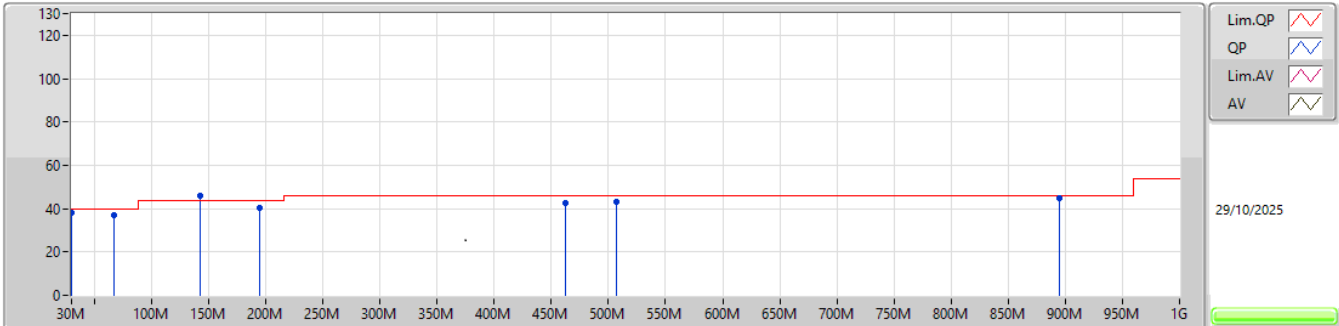
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-
2440MHz_PoE	Pass	QP	30M	37.84	40.00	-2.16	3	Vertical	206	1.00
2440MHz_PoE	Pass	QP	66.86M	36.76	40.00	-3.24	3	Vertical	165	1.00
*2440MHz_PoE	Pass	QP	142.52M	46.18	-	-	3	Vertical	194	1.00
2440MHz_PoE	Pass	QP	194.9M	40.52	43.50	-2.98	3	Vertical	204	1.00
2440MHz_PoE	Pass	QP	462.58M	42.52	46.00	-3.48	3	Vertical	266	1.00
2440MHz_PoE	Pass	QP	507.24M	42.98	46.00	-3.02	3	Vertical	324	1.00
2440MHz_PoE	Pass	QP	895.24M	44.56	46.00	-1.44	3	Vertical	257	1.00
2440MHz_PoE	Pass	PK	507.24M	43.78	46.00	-2.22	3	Horizontal	0	1.00
2440MHz_PoE	Pass	PK	586.78M	45.36	46.00	-0.64	3	Horizontal	0	1.00
*2440MHz_PoE	Pass	QP	142.52M	45.99	-	-	3	Horizontal	138	2.12
2440MHz_PoE	Pass	QP	194.9M	41.11	43.50	-2.39	3	Horizontal	249	1.31
2440MHz_PoE	Pass	QP	417.9M	42.19	46.00	-3.81	3	Horizontal	281	1.62
2440MHz_PoE	Pass	QP	804.06M	43.51	46.00	-2.49	3	Horizontal	254	1.42
2440MHz_PoE	Pass	QP	895.24M	42.69	46.00	-3.31	3	Horizontal	320	2.14

*The frequencies mentioned in Comments and Explanations are not limited to this Limit.

2.4-2.4835GHz_BT-LE(2Mbps)

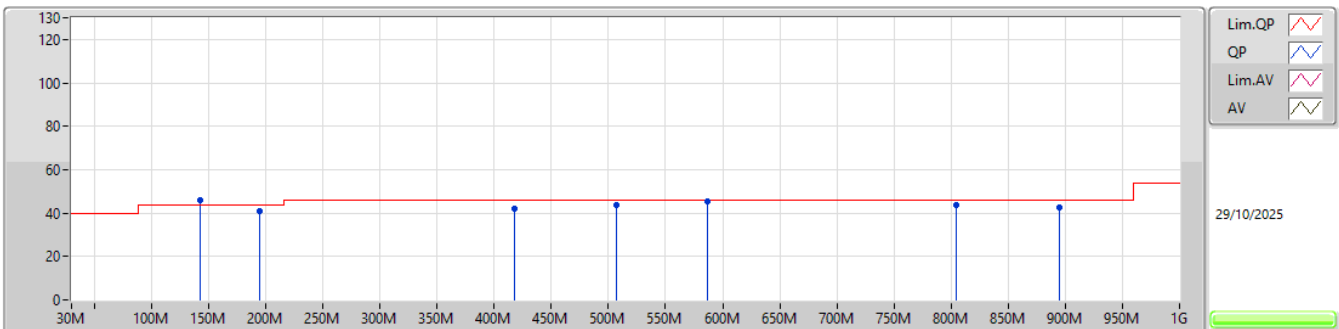
2440MHz_PoE



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)
QP	30M	37.84	40.00	-2.16	-13.04	3	Vertical	206	1.00	50.88	23.60	0.61	37.25
QP	66.86M	36.76	40.00	-3.24	-24.58	3	Vertical	165	1.00	61.34	11.33	0.91	36.82
QP	142.52M	46.18	-	-	-18.28	3	Vertical	194	1.00	64.46	16.77	1.37	36.42
QP	194.9M	40.52	43.50	-2.98	-20.76	3	Vertical	204	1.00	61.28	13.87	1.63	36.26
QP	462.58M	42.52	46.00	-3.48	-11.83	3	Vertical	266	1.00	54.35	22.32	2.62	36.77
QP	507.24M	42.98	46.00	-3.02	-11.27	3	Vertical	324	1.00	54.25	22.87	2.80	36.94
QP	895.24M	44.56	46.00	-1.44	-5.56	3	Vertical	257	1.00	50.12	27.98	3.90	37.44

2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_PoE



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	507.24M	43.78	46.00	-2.22	-11.27	3	Horizontal	0	1.00	55.05	22.87	2.80	36.94
PK	586.78M	45.36	46.00	-0.64	-9.49	3	Horizontal	0	1.00	54.85	24.59	3.03	37.11
QP	142.52M	45.99	-	-	-18.28	3	Horizontal	138	2.12	64.27	16.77	1.37	36.42
QP	194.9M	41.11	43.50	-2.39	-20.76	3	Horizontal	249	1.31	61.87	13.87	1.63	36.26
QP	417.9M	42.19	46.00	-3.81	-12.63	3	Horizontal	281	1.62	54.82	21.53	2.47	36.63
QP	804.06M	43.51	46.00	-2.49	-6.81	3	Horizontal	254	1.42	50.32	27.01	3.65	37.47
QP	895.24M	42.69	46.00	-3.31	-5.56	3	Horizontal	320	2.14	48.25	27.98	3.90	37.44



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	2.4956G	51.69	54.00	-2.31	3	Vertical	205	1.00
BT-LE(2Mbps)	Pass	AV	2.4908G	51.88	54.00	-2.12	3	Vertical	211	1.00

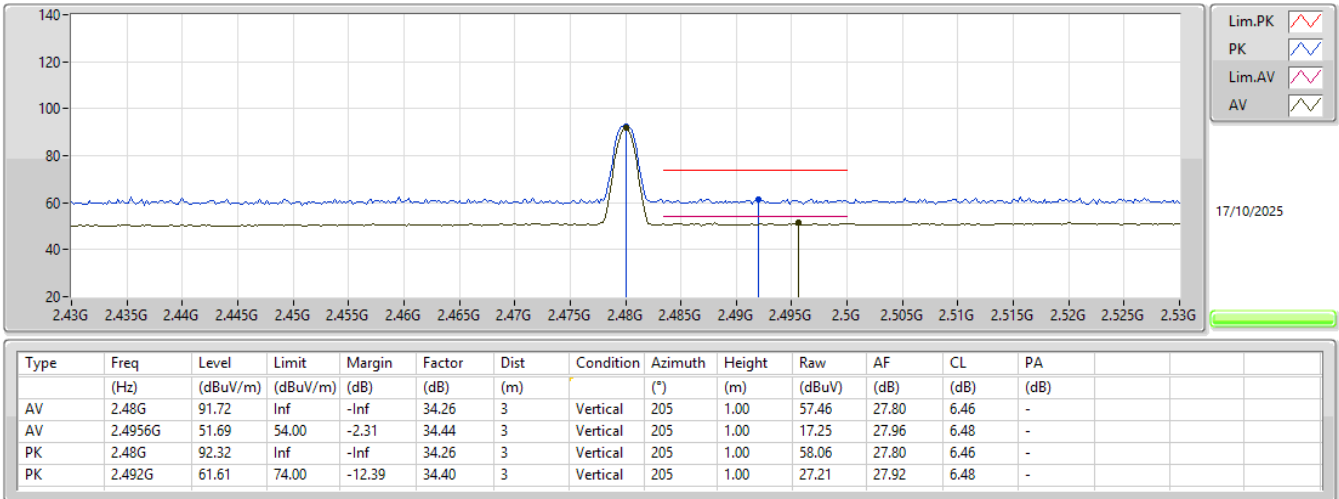
Result

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	2.3648G	49.94	54.00	-4.06	3	Vertical	208	1.00
2402MHz	Pass	AV	2.402G	92.21	Inf	-Inf	3	Vertical	208	1.00
2402MHz	Pass	PK	2.3646G	61.52	74.00	-12.48	3	Vertical	208	1.00
2402MHz	Pass	PK	2.4022G	92.68	Inf	-Inf	3	Vertical	208	1.00
2402MHz	Pass	AV	2.3656G	50.16	54.00	-3.84	3	Horizontal	315	3.00
2402MHz	Pass	AV	2.402G	93.74	Inf	-Inf	3	Horizontal	315	3.00
2402MHz	Pass	PK	2.3786G	61.48	74.00	-12.52	3	Horizontal	315	3.00
2402MHz	Pass	PK	2.4022G	94.25	Inf	-Inf	3	Horizontal	315	3.00
2402MHz	Pass	AV	4.80236G	36.82	54.00	-17.18	3	Vertical	242	1.50
2402MHz	Pass	PK	4.80556G	48.52	74.00	-25.48	3	Vertical	242	1.50
2402MHz	Pass	AV	4.80403G	36.74	54.00	-17.26	3	Horizontal	360	1.50
2402MHz	Pass	PK	4.80411G	47.89	74.00	-26.11	3	Horizontal	360	1.50
2402MHz	Pass	AV	2.3872G	50.07	54.00	-3.93	3	Vertical	204	1.50
2440MHz	Pass	AV	2.44G	90.67	Inf	-Inf	3	Vertical	204	1.50
2440MHz	Pass	AV	2.4948G	51.22	54.00	-2.78	3	Vertical	204	1.50
2440MHz	Pass	PK	2.3724G	61.10	74.00	-12.90	3	Vertical	204	1.50
2440MHz	Pass	PK	2.44G	91.25	Inf	-Inf	3	Vertical	204	1.50
2440MHz	Pass	PK	2.4872G	62.25	74.00	-11.75	3	Vertical	204	1.50
2440MHz	Pass	AV	2.3844G	49.99	54.00	-4.01	3	Horizontal	318	2.72
2440MHz	Pass	AV	2.44G	94.27	Inf	-Inf	3	Horizontal	318	2.72
2440MHz	Pass	AV	2.4992G	51.02	54.00	-2.98	3	Horizontal	318	2.72
2440MHz	Pass	PK	2.3848G	61.21	74.00	-12.79	3	Horizontal	318	2.72
2440MHz	Pass	PK	2.4396G	94.81	Inf	-Inf	3	Horizontal	318	2.72
2440MHz	Pass	PK	2.4884G	61.50	74.00	-12.50	3	Horizontal	318	2.72
2440MHz	Pass	AV	4.88032G	37.17	54.00	-16.83	3	Vertical	210	2.44
2440MHz	Pass	PK	4.87915G	48.41	74.00	-25.59	3	Vertical	210	2.44
2440MHz	Pass	AV	4.87981G	37.11	54.00	-16.89	3	Horizontal	276	1.59
2440MHz	Pass	PK	4.88228G	48.28	74.00	-25.72	3	Horizontal	276	1.59
2480MHz	Pass	AV	2.48G	91.72	Inf	-Inf	3	Vertical	205	1.00
2480MHz	Pass	AV	2.4956G	51.69	54.00	-2.31	3	Vertical	205	1.00
2480MHz	Pass	PK	2.48G	92.32	Inf	-Inf	3	Vertical	205	1.00
2480MHz	Pass	PK	2.492G	61.61	74.00	-12.39	3	Vertical	205	1.00
2480MHz	Pass	AV	2.48G	92.84	Inf	-Inf	3	Horizontal	316	2.35
2480MHz	Pass	AV	2.4988G	51.26	54.00	-2.74	3	Horizontal	316	2.35
2480MHz	Pass	PK	2.48G	93.34	Inf	-Inf	3	Horizontal	316	2.35
2480MHz	Pass	PK	2.492G	62.85	74.00	-11.15	3	Horizontal	316	2.35
2480MHz	Pass	AV	4.95771G	37.15	54.00	-16.85	3	Vertical	149	1.85
2480MHz	Pass	PK	4.95837G	48.71	74.00	-25.29	3	Vertical	149	1.85
2480MHz	Pass	AV	4.95755G	37.15	54.00	-16.85	3	Horizontal	358	2.39
2480MHz	Pass	PK	4.96216G	48.35	74.00	-25.65	3	Horizontal	358	2.39
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3526G	50.89	54.00	-3.11	3	Vertical	211	1.50
2402MHz	Pass	AV	2.402G	91.21	Inf	-Inf	3	Vertical	211	1.50
2402MHz	Pass	PK	2.3894G	60.87	74.00	-13.13	3	Vertical	211	1.50
2402MHz	Pass	PK	2.402G	91.95	Inf	-Inf	3	Vertical	211	1.50
2402MHz	Pass	AV	2.3542G	50.68	54.00	-3.32	3	Horizontal	321	1.50
2402MHz	Pass	AV	2.402G	92.58	Inf	-Inf	3	Horizontal	321	1.50
2402MHz	Pass	PK	2.3766G	60.91	74.00	-13.09	3	Horizontal	321	1.50
2402MHz	Pass	PK	2.4024G	93.25	Inf	-Inf	3	Horizontal	321	1.50
2402MHz	Pass	AV	4.8053G	37.01	54.00	-16.99	3	Vertical	314	2.39
2402MHz	Pass	PK	4.80415G	47.70	74.00	-26.30	3	Vertical	314	2.39
2402MHz	Pass	AV	4.80336G	37.45	54.00	-16.55	3	Horizontal	140	1.20
2402MHz	Pass	PK	4.80155G	47.81	74.00	-26.19	3	Horizontal	140	1.20
2440MHz	Pass	AV	2.3508G	50.68	54.00	-3.32	3	Vertical	211	1.00
2440MHz	Pass	AV	2.44G	90.40	Inf	-Inf	3	Vertical	211	1.00
2440MHz	Pass	AV	2.4908G	51.88	54.00	-2.12	3	Vertical	211	1.00
2440MHz	Pass	PK	2.3796G	60.71	74.00	-13.29	3	Vertical	211	1.00
2440MHz	Pass	PK	2.4396G	94.05	Inf	-Inf	3	Vertical	211	1.00
2440MHz	Pass	PK	2.5G	61.52	74.00	-12.48	3	Vertical	211	1.00
2440MHz	Pass	AV	2.3416G	50.85	54.00	-3.15	3	Horizontal	316	3.00

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2440MHz	Pass	AV	2.44G	90.78	Inf	-Inf	3	Horizontal	316	3.00
2440MHz	Pass	AV	2.492G	51.66	54.00	-2.34	3	Horizontal	316	3.00
2440MHz	Pass	PK	2.354G	61.40	74.00	-12.60	3	Horizontal	316	3.00
2440MHz	Pass	PK	2.44G	94.30	Inf	-Inf	3	Horizontal	316	3.00
2440MHz	Pass	PK	2.4928G	62.42	74.00	-11.58	3	Horizontal	316	3.00
2440MHz	Pass	AV	4.88137G	37.63	54.00	-16.37	3	Vertical	136	1.07
2440MHz	Pass	PK	4.88007G	48.63	74.00	-25.37	3	Vertical	136	1.07
2440MHz	Pass	AV	4.8793G	37.72	54.00	-16.28	3	Horizontal	110	1.75
2440MHz	Pass	PK	4.88006G	48.00	74.00	-26.00	3	Horizontal	110	1.75
2480MHz	Pass	AV	2.48G	89.95	Inf	-Inf	3	Vertical	204	1.50
2480MHz	Pass	AV	2.4956G	51.69	54.00	-2.31	3	Vertical	204	1.50
2480MHz	Pass	PK	2.48G	90.71	Inf	-Inf	3	Vertical	204	1.50
2480MHz	Pass	PK	2.4884G	62.25	74.00	-11.75	3	Vertical	204	1.50
2480MHz	Pass	AV	2.48G	92.26	Inf	-Inf	3	Horizontal	318	1.50
2480MHz	Pass	AV	2.4835G	51.83	54.00	-2.17	3	Horizontal	318	1.50
2480MHz	Pass	PK	2.48G	92.96	Inf	-Inf	3	Horizontal	318	1.50
2480MHz	Pass	PK	2.4902G	61.80	74.00	-12.20	3	Horizontal	318	1.50
2480MHz	Pass	AV	4.9578G	37.70	54.00	-16.30	3	Vertical	245	2.17
2480MHz	Pass	PK	4.96125G	48.54	74.00	-25.46	3	Vertical	245	2.17
2480MHz	Pass	AV	4.95957G	37.62	54.00	-16.38	3	Horizontal	103	2.05
2480MHz	Pass	PK	4.95936G	47.89	74.00	-26.11	3	Horizontal	103	2.05

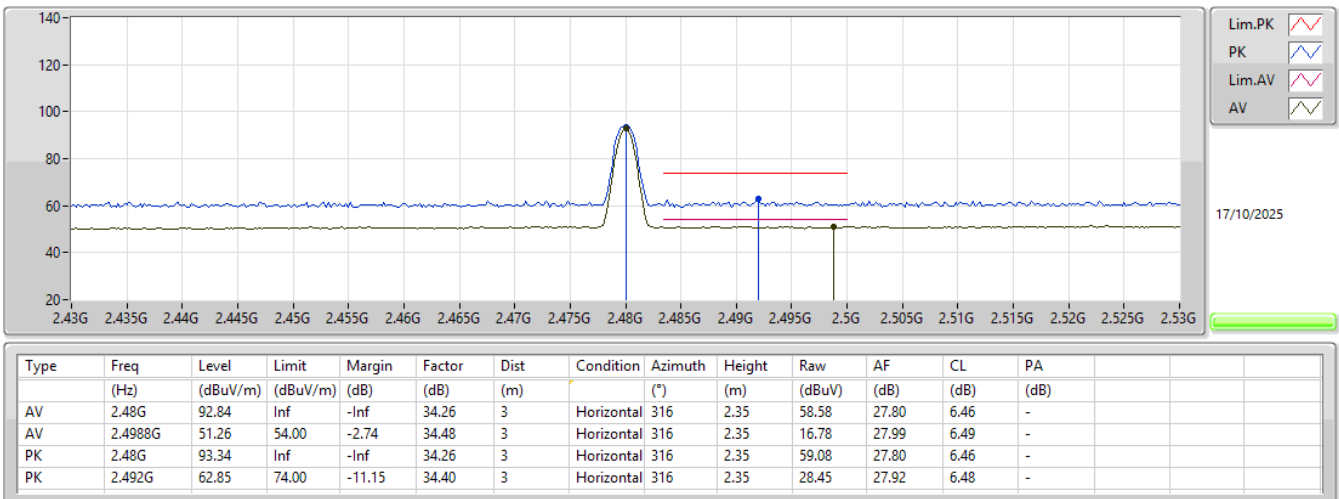
2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX



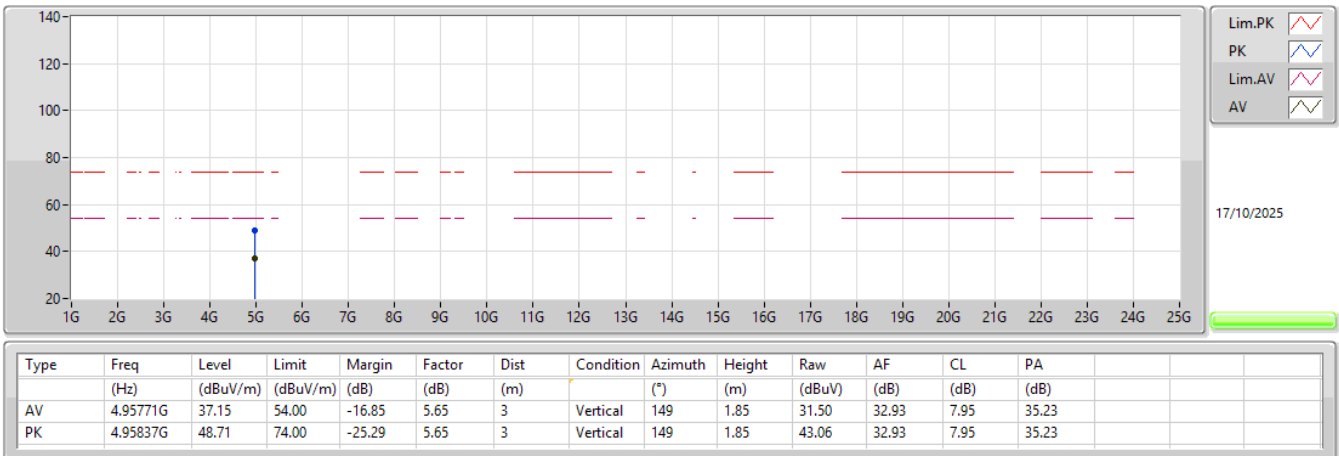
2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX



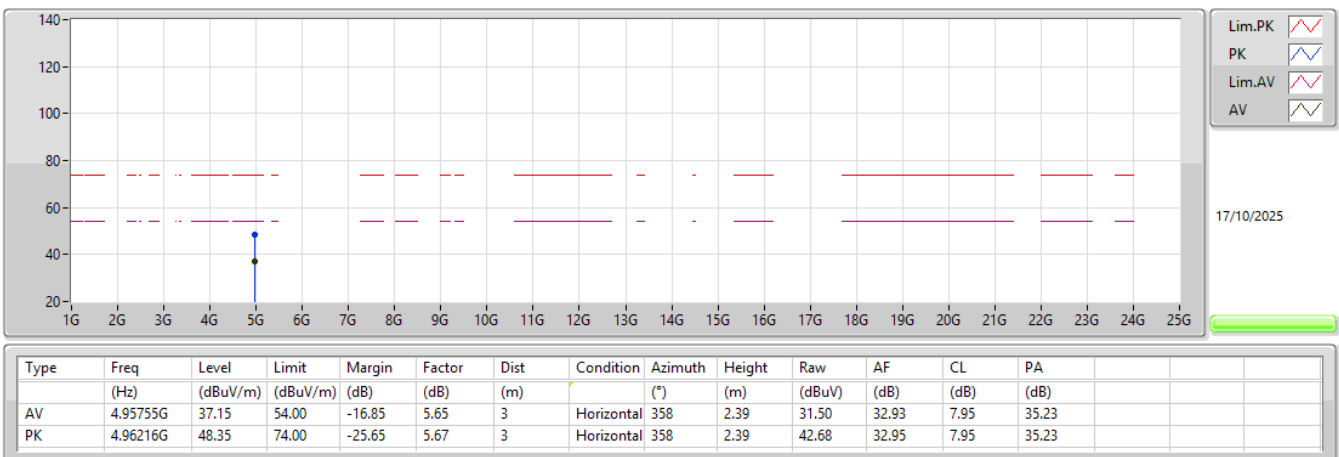
2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX



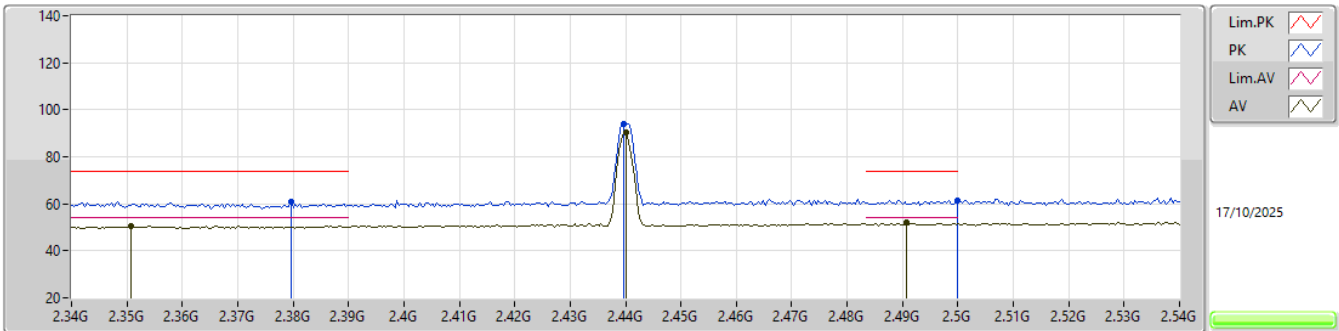
2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX



2.4-2.4835GHz_BT-LE(2Mbps)

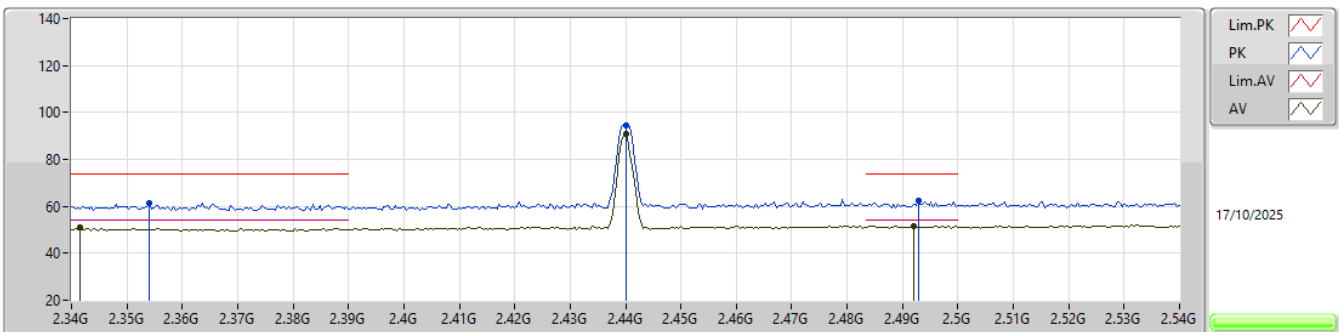
2440MHz_TX



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	2.3508G	50.68	54.00	-3.32	33.56	3	Vertical	211	1.00	17.12	27.30	6.26	-
AV	2.44G	90.40	Inf	-Inf	33.91	3	Vertical	211	1.00	56.49	27.50	6.41	-
AV	2.4908G	51.88	54.00	-2.12	34.39	3	Vertical	211	1.00	17.49	27.91	6.48	-
PK	2.3796G	60.71	74.00	-13.29	33.51	3	Vertical	211	1.00	27.20	27.20	6.31	-
PK	2.4396G	94.05	Inf	-Inf	33.91	3	Vertical	211	1.00	60.14	27.50	6.41	-
PK	2.5G	61.52	74.00	-12.48	34.49	3	Vertical	211	1.00	27.03	28.00	6.49	-

2.4-2.4835GHz_BT-LE(2Mbps)

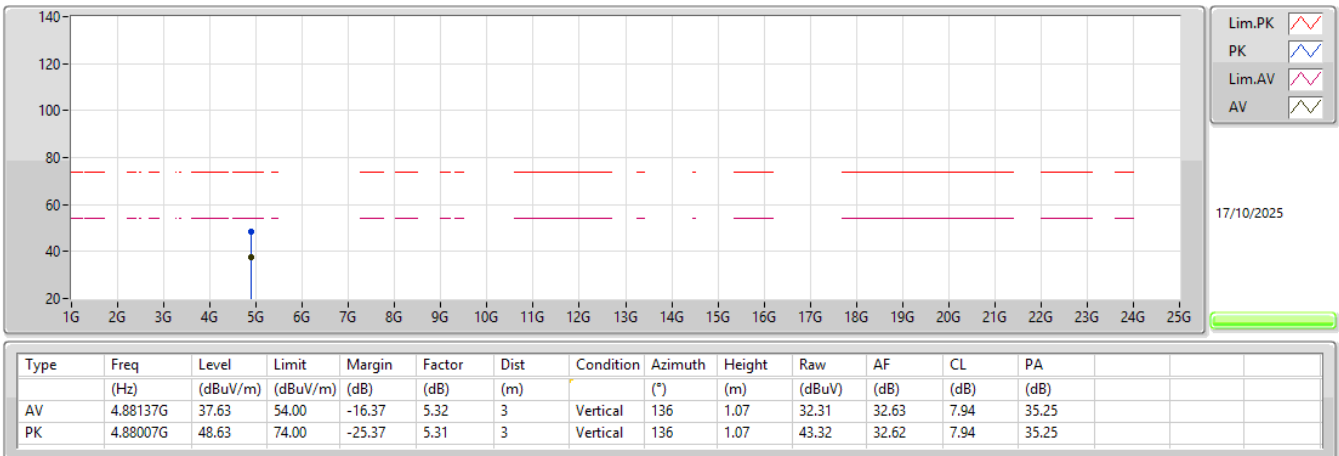
2440MHz_TX



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	2.3416G	50.85	54.00	-3.15	33.46	3	Horizontal	316	3.00	17.39	27.22	6.24	-
AV	2.44G	90.78	Inf	-Inf	33.91	3	Horizontal	316	3.00	56.87	27.50	6.41	-
AV	2.492G	51.66	54.00	-2.34	34.40	3	Horizontal	316	3.00	17.26	27.92	6.48	-
PK	2.354G	61.40	74.00	-12.60	33.57	3	Horizontal	316	3.00	27.83	27.30	6.27	-
PK	2.44G	94.30	Inf	-Inf	33.91	3	Horizontal	316	3.00	60.39	27.50	6.41	-
PK	2.4928G	62.42	74.00	-11.58	34.41	3	Horizontal	316	3.00	28.01	27.93	6.48	-

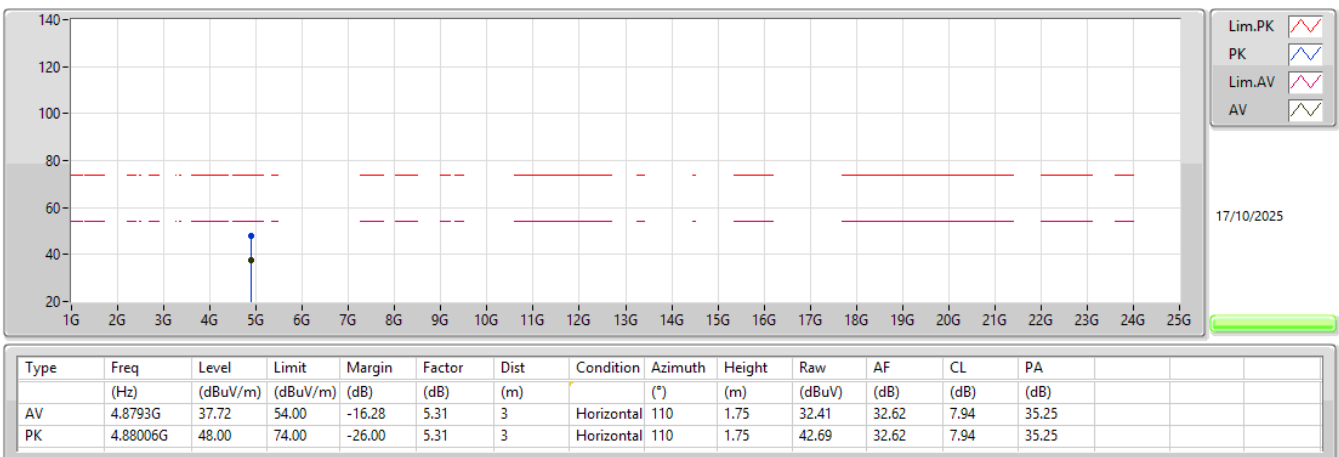
2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_TX



2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_TX





Radiated Emissions above 1GHz

Appendix G

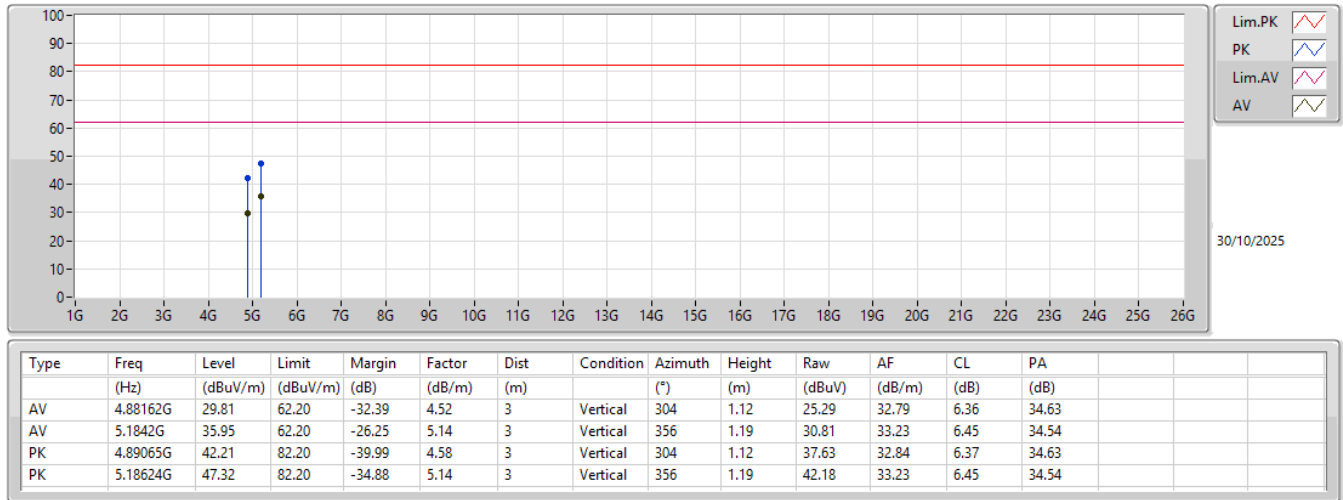
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	5.1842G	35.95	62.20	-26.25	Vertical

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
Mode 1	Pass	AV	4.88162G	29.81	62.20	-32.39	3	Vertical	304	1.12
Mode 1	Pass	AV	5.1842G	35.95	62.20	-26.25	3	Vertical	356	1.19
Mode 1	Pass	PK	4.89065G	42.21	82.20	-39.99	3	Vertical	304	1.12
Mode 1	Pass	PK	5.18624G	47.32	82.20	-34.88	3	Vertical	356	1.19
Mode 1	Pass	AV	4.88456G	29.79	62.20	-32.41	3	Horizontal	310	2.10
Mode 1	Pass	AV	5.18224G	31.94	62.20	-30.26	3	Horizontal	355	1.50
Mode 1	Pass	PK	4.87756G	41.36	82.20	-40.84	3	Horizontal	310	2.10
Mode 1	Pass	PK	5.18632G	43.46	82.20	-38.74	3	Horizontal	355	1.50

Radiated Emissions above 1GHz_Mode 1



Radiated Emissions above 1GHz_Mode 1

