



FCC Radio Test Report

FCC ID : TOR-C460
Equipment : Wireless Access Point
Brand Name : ARISTA
Model Name : C-460E
Applicant : Arista Networks, Inc.
5453 Great America Parkway, Santa Clara, CA 95054 USA
Manufacturer : Arista Networks, Inc.
5453 Great America Parkway, Santa Clara, CA 95054 USA
Standard : 47 CFR FCC Part 15.247

The product was received on May 23, 2024, and testing was started from May 30, 2024 and completed on Jun. 05, 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 variant 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



History of this test report

[illegible]

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: Terry Chang

Report Producer: Amber Chiu

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(125kbps)	1.0	1TX
2.4-2.4835GHz	BT-LE(500kbps)	1.0	1TX
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 (125kbps/500kbps/1Mbps/2Mbps) 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	WHAYU	C393-510225-A	Dipole	Reverse SMA	2.4G+5G+6E	Radio 1_2.4G Radio 3_5G Radio 2_6E
2	WHAYU	C393-510225-A	Dipole	Reverse SMA	2.4G+5G+6E	
3	WHAYU	C393-510225-A	Dipole	Reverse SMA	2.4G+5G+6E	
4	WHAYU	C393-510225-A	Dipole	Reverse SMA	2.4G+5G+6E	Radio 1_2.4G Radio 3_5G Radio 2_6E
5	WHAYU	C393-510225-A	Dipole	Reverse SMA	2.4G+5G+6E	
6	WHAYU	C393-510225-A	Dipole	Reverse SMA	2.4G+5G+6E	
7	WHAYU	C393-510296-A	Dipole	I-Pex	BT	-
8	WHAYU	C393-510296-A	PIFA	I-Pex	GPS	-

Ant.	Port	Gain (dBi)				
		2.4G	5G	6E	BT	GPS
1	1	4.9	6.1	5.1	-	-
2	2	5.7	6.9	5.1	-	-
3	1	4	6	5.1	-	-
4	3	5.1	6.9	5.3	-	-
5	4	6.3	5.9	5.3	-	-
6	2	4	5	5.3	-	-
7	1	-	-	-	5.5	-
8	1	-	-	-	-	4.5

Note 1: The EUT has eight antennas.

For 2.4GHz function:

For IEEE 802.11 b/g/n/VHT/ax mode (2TX/2RX) < **Radio 0** >

Ant. 3 (port 1) and Ant. 6 (port 2) could receive simultaneously.

For IEEE 802.11 b/g/n/VHT/ax/be mode (4TX/4RX) < **Radio 1** >

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

For 5GHz function:

For IEEE 802.11 a/n/ac/ax mode (2TX/2RX) < **Radio 0** >

Ant. 3 (port 1) and Ant. 6 (port 2) could receive simultaneously.

For IEEE 802.11 a/n/ac/ax/be mode (4TX/4RX) < **Radio 3** >

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

For 6GHz function:

For IEEE 802.11axmode (2TX/2RX) < **Radio 0** >

Ant. 3 (port 1) and Ant. 6 (port 2) could receive simultaneously.

For IEEE 802.11 ax/be mode (4TX/4RX) < **Radio 2** >

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

For BT function:

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

Ant. 7 could transmit/receive.

Note 2: Directional gain information

	Maximum Output Power	Power Spectral Density
Non-BF	Directional gain = Max.gain + array gain. For power measurements on IEEE 802.11 devices Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$
BF	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$

1.1.3 EUT Information

Operational Condition	
EUT Power Type	From AC Adapter / 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) $\geq 1/T$
BT-LE(1Mbps)	1	0	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
BT-LE(2Mbps)	1	0	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)

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

1.1.5 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: FR392143AL

Below is the table for the change of the product with respect to the original one.

Modifications	Performance Checking
Model name was added. (C-460E) (Wi-Fi Antenna change to External Antenna)	All test items

1.2 Testing Applied Standards

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

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

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

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

1.3 Testing Location Information

Test Lab. : Sporton International Inc. Hsinhua Laboratory				
☒ Hsinhua (TAF: 3785)	ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)			
	TEL: 886-3-327-3456		FAX: 886-3-327-0973	
Test site Designation No. TW3785 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Daniel Lin	23.1~24.5℃ / 52~ 56%	31/May/2024
RF Conducted	TH07-HY	Raven Chien	22.9~23.2℃ / 55~58%	31/May/2024
☒ Wenhua 3rd. (TAF: 3785)	ADD: No. 58, Aly. 75, Ln. 564, Wenhua 3rd Rd., Guishan Dist. Taoyuan City 333, Taiwan (R.O.C.)			
	TEL: 886-3-327-0868			
Test site Designation No. TW0036 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
Radiated	03CH26-HY	Lego Lin	20.8~22.7℃ / 58~60%	30/May/2024~31/May/2024
Radiated (Co-location)	03CH24-HY	Lego Lin	20.1~22.3℃ / 61~65%	04/Jun/2024~05/Jun/2024

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
AC Power-line Conducted Emissions	4.53 dB	Confidence levels of 95%
Bandwidth	3 MHz	Confidence levels of 95%
Maximum Conducted Output Power	2 dB	Confidence levels of 95%
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	Tera Term Version 4.76
-----------------------	------------------------

Mode	Power Setting
BT-LE(1Mbps)	-
2402MHz	90
2440MHz	90
2480MHz	90
BT-LE(2Mbps)	-
2402MHz	90
2440MHz	90
2480MHz	61

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
2	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	Adapter Mode		
2	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
Operating Mode	CTX
1	Radio 1 + Radio 3 + Radio 2 + Radio 0 (WLAN 2.4GHz) + Bluetooth
2	Radio 1 + Radio 3 + Radio 2 + Radio 0 (WLAN 5GHz) + Bluetooth
3	Radio 1 + Radio 3 + Radio 2 + Radio 0 (WLAN 6GHz) + Bluetooth
Refer to Sporton Test Report No.: FA392143-02 for Co-location RF Exposure Evaluation and Appendix G for Radiated Emission Co-location.	

2.3 Accessories

Accessories				
Ceiling	Brand Name	ARISTA	Model Name	MNT-AP-15MM

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

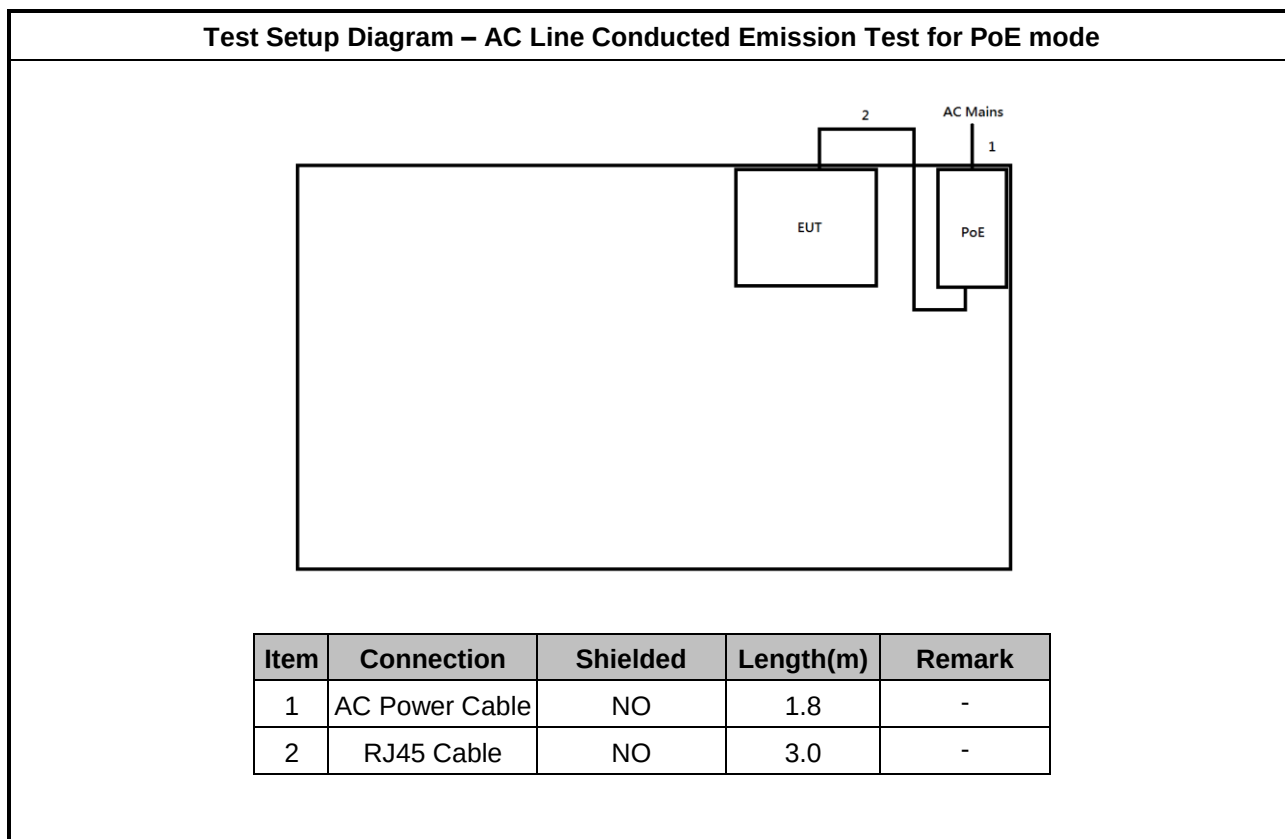
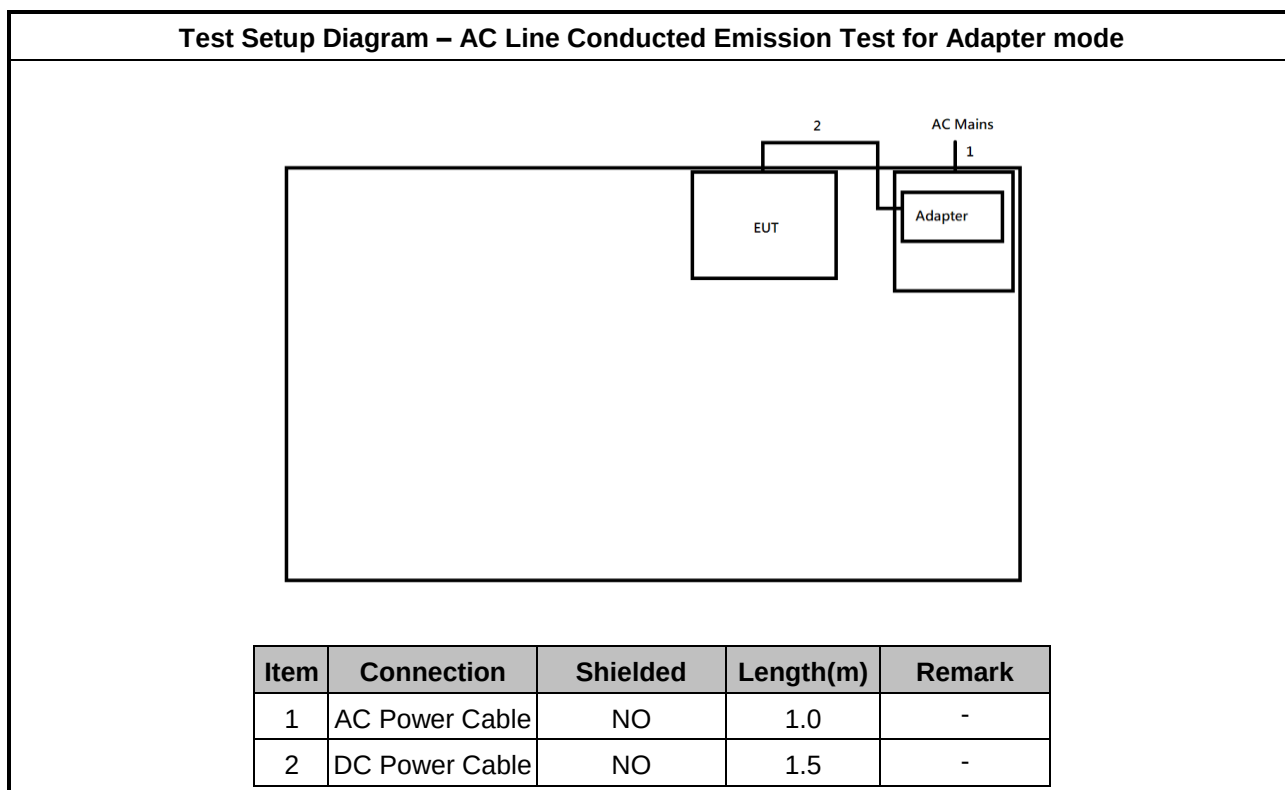
2.4 Support Equipment

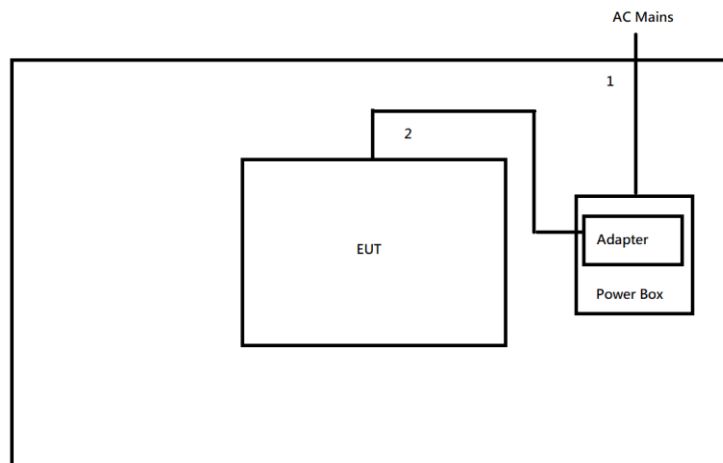
Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Adapter	ASIAN POWER DEVICES	WA-48B12R	-	Provided by Customer
2	RJ45 Cable	Power sync	CAT-6E-03	-	-
3	AC Power Cable	Power sync	PW-GPC180-3	-	-
4	PoE	PHIHONG	POE60U-1BT-5	-	-

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-
3	AC Adapter	ASIAN POWER DEVICES	WA-48B12R	-	Provided by Customer

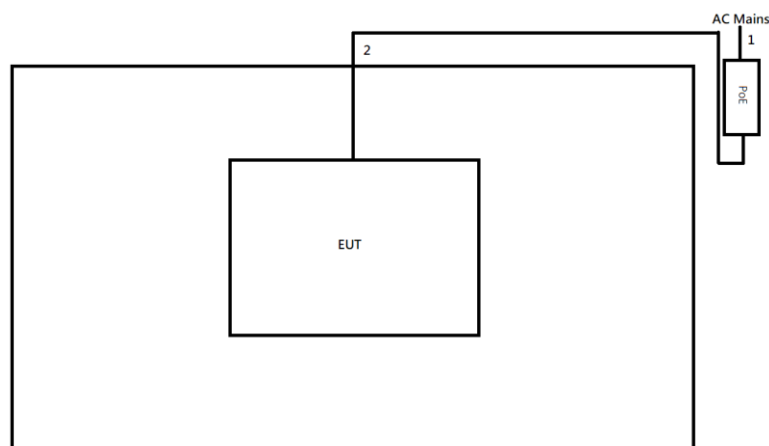
Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Adapter	ASIAN POWER DEVICES	WA-48B12R	-	Provided by Customer
2	RJ45 Cable	Power sync	CAT-6E-03	-	-
3	AC Power Cable (Remote)	Power sync	PW-GPC180-3	-	-
4	PoE (Remote)	PHIHONG	POE60U-1BT-5	-	-

2.5 Test Setup Diagram



Test Setup Diagram - Radiated Test for Adapter mode


Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	NO	1.8	-
2	DC Power Cable	NO	1.5	-

Test Setup Diagram - Radiated Test for PoE mode


Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	NO	1.8	-
2	RJ45 Cable	NO	3.0	-

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

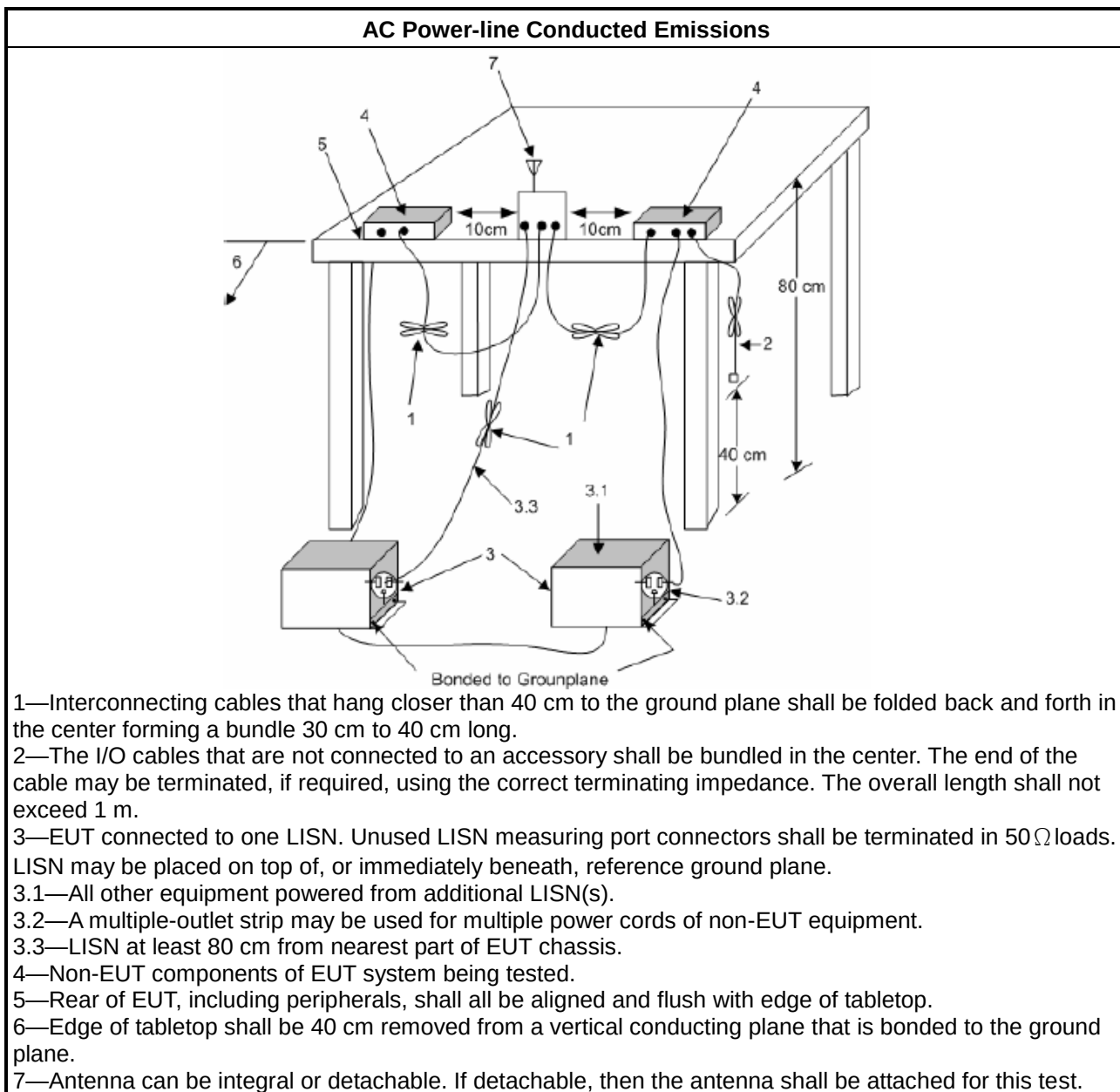
Test Method
▪ Refer as ANSI C63.10-2013, clause 6.2 foray power-line conducted emissions.

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.

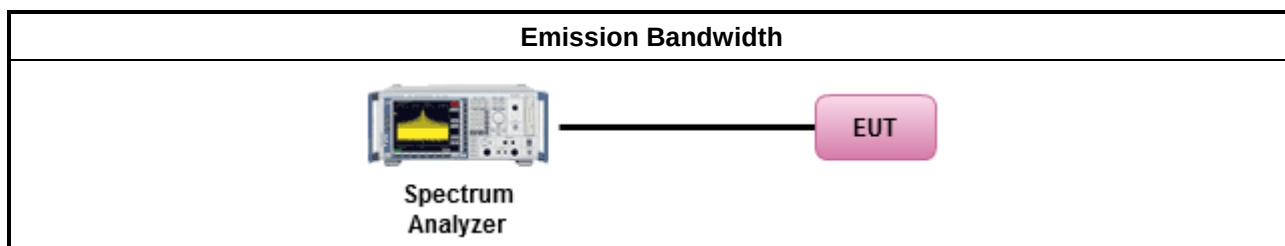
3.2.2 Measuring Instruments

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:
☒	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.	

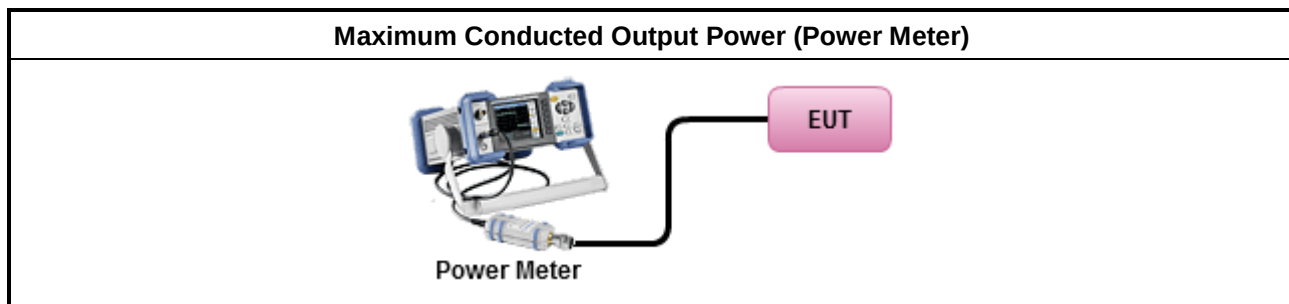
3.3.2 Measuring Instruments

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 (11.9.1.2 of ANSI C63.10) integrated band power method.
☐	Refer as KDB 558074, clause 8.3.1.3 (11.9.1.3 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

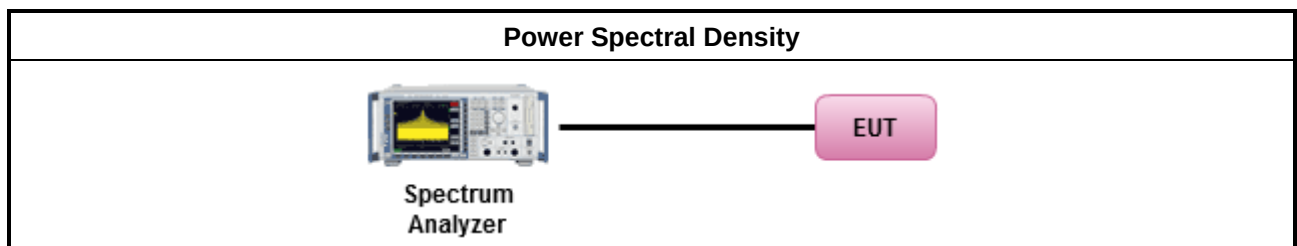
3.4.2 Measuring Instruments

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.	

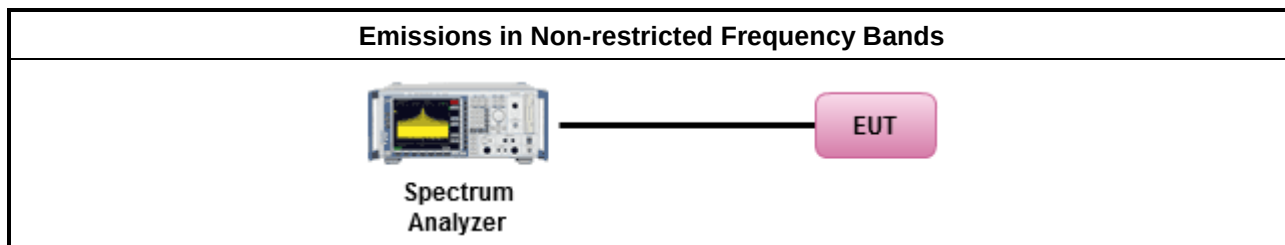
3.5.2 Measuring Instruments

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

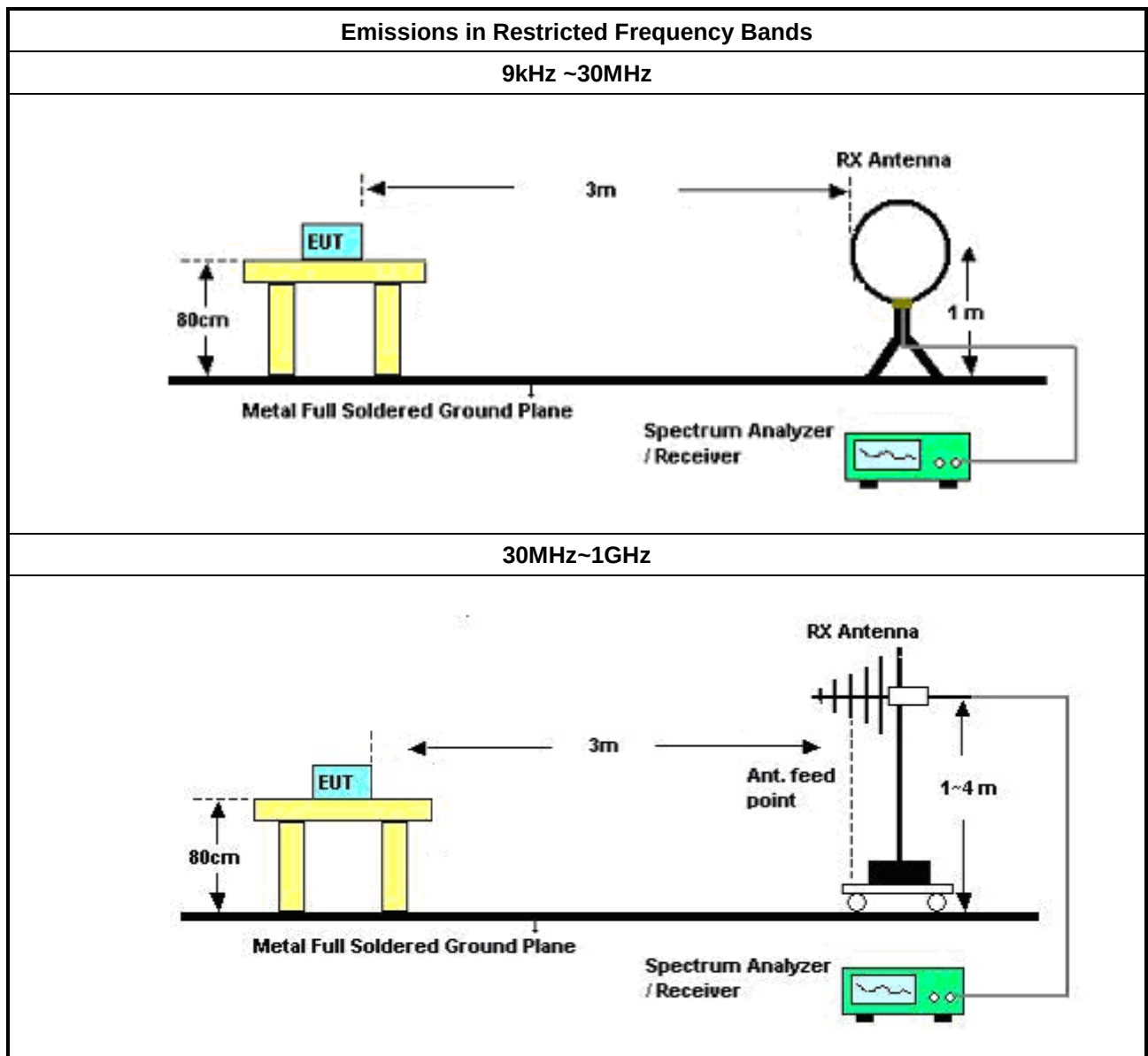
Test Method	
	The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].
	Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.
	For the transmitter unwanted 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.

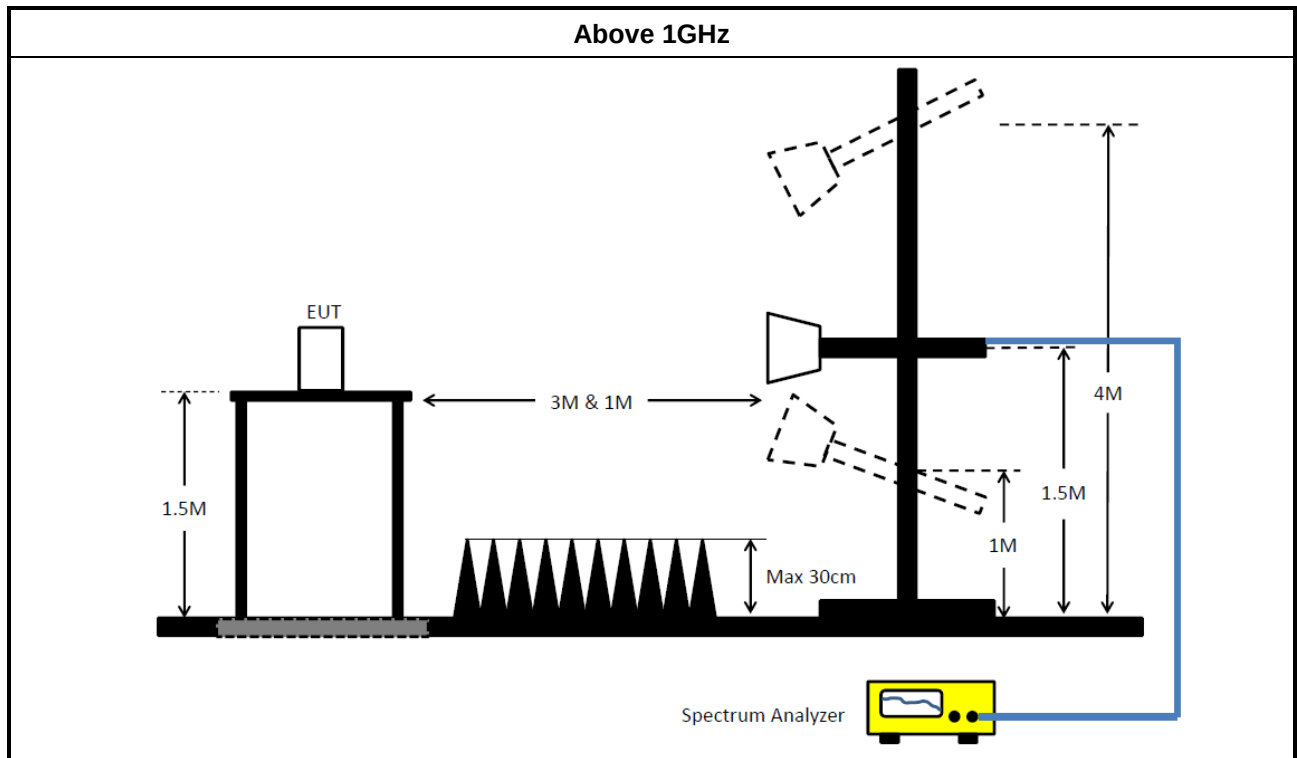
3.6.4 Measurement Results Calculation

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	ESR	102318	9kHz ~ 3.6GHz	27/Dec/2023	26/Dec/2024
LISN(Artificial Mains Network)	SCHWARZBECK	NSLK 8127	8127477	9kHz ~ 30MHz	12/Apr/2024	11/Apr/2025
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	27/Feb/2024	26/Feb/2025
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	18/Oct/2023	17/Oct/2024
Sporton	SENSE-EMI	V5.11.3	N/A	N/A	N/A	N/A

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	02/Feb/2024	01/Feb/2025
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	20/Oct/2023	19/Oct/2024
Power Meter	Anritsu	ML2495A	1517010	300MHz~40GHz	15/Dec/2023	14/Dec/2024
Pulse Sensor	Anritsu	MA2411B	1339407	300MHz~40GHz	15/Dec/2023	14/Dec/2024
SENSE-15247_FS	Sporton	V5.11.18	N/A	N/A	N/A	N/A

**Instrument for Radiated Test (03CH26-HY)**

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH26-HY	30MHz~1GHz 3m	08/Aug/2023	07/Aug/2024
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH26-HY	1GHz~18GHz 3m	08/Aug/2023	07/Aug/2024
EMI Test Receiver	ROHDE & SCHWARZ	ESR	102318	9kHz~3.6GHz	27/Dec/2023	26/Dec/2024
Signal Analyzer	ROHDE&SCHWARZ	FSV3044	101411	10Hz~44GHz	06/Oct/2023	05/Oct/2024
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	19/Mar/2024	18/Mar/2025
Bilog Antenna & 6dB Attenuator	TESEQ & VGT	CBL 6111D & VFA 04002-06	63540/002	30MHz~1GHz	06/Jun/2023	05/Jun/2024
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02877	1GHz~18GHz	12/Jul/2023	11/Jul/2024
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	01248	18GHz~40GHz	21/Aug/2023	20/Aug/2024
RF Cable	HUBER+SUHNER	SUOFLEX 104	CB009	9kHz~1GHz	18/Oct/2023	17/Oct/2024
RF Cable	HUBER+SUHNER	SUOFLEX 104	CB009	1GHz~40GHz	18/Oct/2023	17/Oct/2024
Preamplifier	SGH	PRAMP 903	20230515-2	30MHz~1GHz	24/May/2024	23/May/2025
Preamplifier	SGH	PRAMP 118-H	20230515-4	1GHz ~18GHz	24/May/2024	23/May/2025
Amplifier	EM	EM18G40G	060874	18GHz ~ 40GHz	15/Apr/2024	14/Apr/2025
SENSE-15247-FS	Sporton	V5.11.18	NA	NA	NA	NA

Instrument for Radiated Test (Co-location)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH24-HY	1GHz~18GHz 3m	03/Aug/2023	02/Aug/2024
Signal Analyzer	ROHDE&SCHWARZ	FSV3044	101345	10Hz~44GHz	10/Aug/2023	09/Aug/2024
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02744	1GHz~18GHz	17/Aug/2023	16/Aug/2024
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	01248	18GHz~40GHz	21/Aug/2023	20/Aug/2024
RF Cable	HUBER+SUHNER	SUOFLEX 102	CB001	1GHz~40GHz	21/Jul/2023	20/Jul/2024
Amplifier	EM	EM01G18G	060870	1GHz ~18GHz	10/Aug/2023	09/Aug/2024
Amplifier	EM	EM18G40GA	060874	18GHz ~40GHz	18/Aug/2023	17/Aug/2024
SENSE-EMI	Sporton	V5.11.8	NA	NA	NA	NA



Conducted Emissions at Powerline

Appendix A

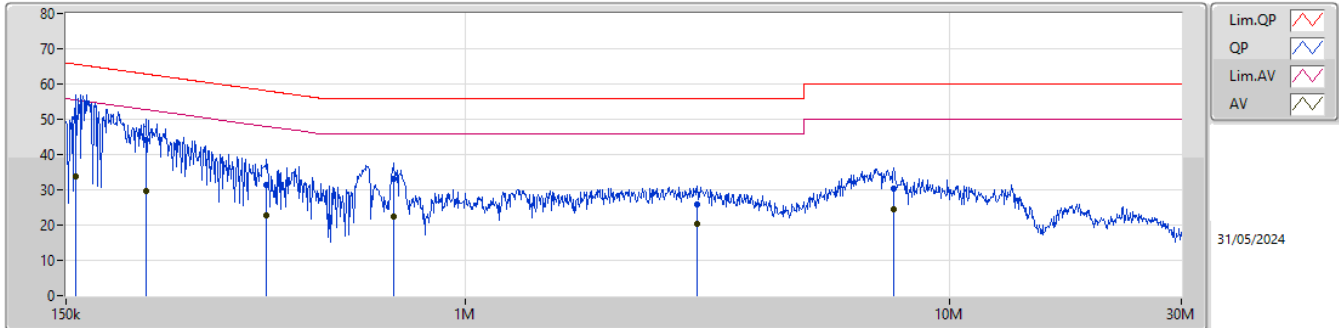
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	169.76k	52.35	64.97	-12.62	Neutral
Mode 2	Pass	AV	14.208M	34.44	50.00	-15.56	Neutral

Result

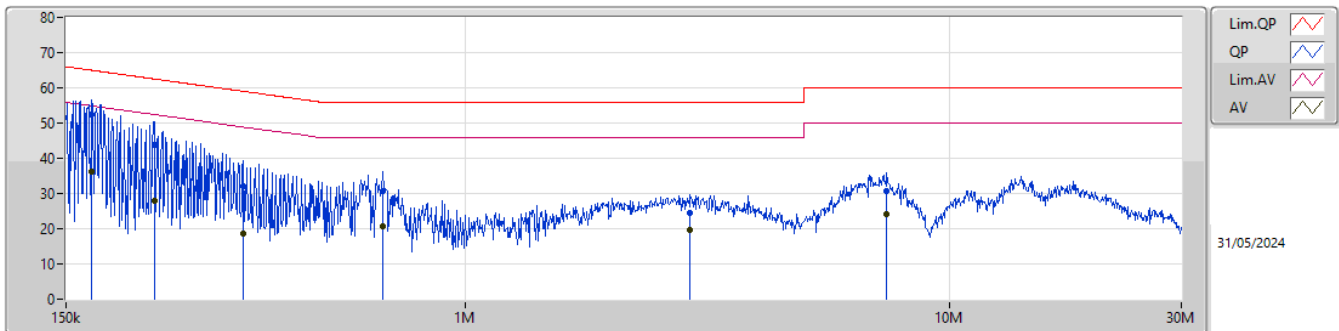
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	156.734k	50.29	65.64	-15.35	Line	-
Mode 1	Pass	AV	156.734k	33.68	55.64	-21.96	Line	-
Mode 1	Pass	QP	220.053k	44.17	62.81	-18.64	Line	-
Mode 1	Pass	AV	220.053k	29.63	52.81	-23.18	Line	-
Mode 1	Pass	QP	389.447k	31.28	58.08	-26.80	Line	-
Mode 1	Pass	AV	389.447k	22.73	48.08	-25.35	Line	-
Mode 1	Pass	QP	711.605k	33.25	56.00	-22.75	Line	-
Mode 1	Pass	AV	711.605k	22.43	46.00	-23.57	Line	-
Mode 1	Pass	QP	3.007M	25.79	56.00	-30.21	Line	-
Mode 1	Pass	AV	3.007M	20.39	46.00	-25.61	Line	-
Mode 1	Pass	QP	7.652M	30.24	60.00	-29.76	Line	-
Mode 1	Pass	AV	7.652M	24.46	50.00	-25.54	Line	-
Mode 1	Pass	QP	169.76k	52.35	64.97	-12.62	Neutral	-
Mode 1	Pass	AV	169.76k	36.11	54.97	-18.86	Neutral	-
Mode 1	Pass	QP	228.103k	43.64	62.52	-18.88	Neutral	-
Mode 1	Pass	AV	228.103k	28.08	52.52	-24.44	Neutral	-
Mode 1	Pass	QP	348.261k	31.95	59.00	-27.05	Neutral	-
Mode 1	Pass	AV	348.261k	18.61	49.00	-30.39	Neutral	-
Mode 1	Pass	QP	675.618k	30.53	56.00	-25.47	Neutral	-
Mode 1	Pass	AV	675.618k	20.64	46.00	-25.36	Neutral	-
Mode 1	Pass	QP	2.912M	24.59	56.00	-31.41	Neutral	-
Mode 1	Pass	AV	2.912M	19.52	46.00	-26.48	Neutral	-
Mode 1	Pass	QP	7.412M	30.57	60.00	-29.43	Neutral	-
Mode 1	Pass	AV	7.412M	24.26	50.00	-25.74	Neutral	-
Mode 2	Pass	QP	151.807k	48.67	65.90	-17.23	Line	-
Mode 2	Pass	AV	151.807k	33.51	55.90	-22.39	Line	-
Mode 2	Pass	QP	247.062k	32.67	61.85	-29.18	Line	-
Mode 2	Pass	AV	247.062k	17.66	51.85	-34.19	Line	-
Mode 2	Pass	QP	442.514k	19.87	57.01	-37.14	Line	-
Mode 2	Pass	AV	442.514k	10.61	47.01	-36.40	Line	-
Mode 2	Pass	QP	560.037k	19.43	56.00	-36.57	Line	-
Mode 2	Pass	AV	560.037k	14.62	46.00	-31.38	Line	-
Mode 2	Pass	QP	3.27M	18.21	56.00	-37.79	Line	-
Mode 2	Pass	AV	3.27M	9.52	46.00	-36.48	Line	-
Mode 2	Pass	QP	13.871M	36.10	60.00	-23.90	Line	-
Mode 2	Pass	AV	13.871M	31.51	50.00	-18.49	Line	-
Mode 2	Pass	QP	151.807k	49.33	65.90	-16.57	Neutral	-
Mode 2	Pass	AV	151.807k	34.18	55.90	-21.72	Neutral	-
Mode 2	Pass	QP	196.781k	41.09	63.74	-22.65	Neutral	-
Mode 2	Pass	AV	196.781k	26.39	53.74	-27.35	Neutral	-
Mode 2	Pass	QP	266.53k	31.97	61.22	-29.25	Neutral	-
Mode 2	Pass	AV	266.53k	18.02	51.22	-33.20	Neutral	-
Mode 2	Pass	QP	542.434k	22.01	56.00	-33.99	Neutral	-
Mode 2	Pass	AV	542.434k	15.09	46.00	-30.91	Neutral	-
Mode 2	Pass	QP	3.067M	17.24	56.00	-38.76	Neutral	-
Mode 2	Pass	AV	3.067M	10.89	46.00	-35.11	Neutral	-
Mode 2	Pass	QP	14.208M	37.88	60.00	-22.12	Neutral	-
Mode 2	Pass	AV	14.208M	34.44	50.00	-15.56	Neutral	-

Conducted Emissions at Powerline_Mode 1



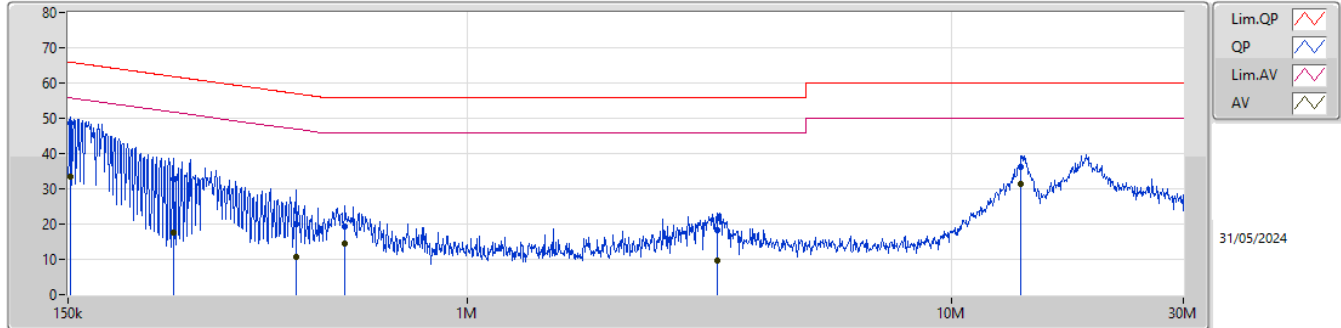
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	156.734k	50.29	65.64	-15.35	9.86	Line	-	40.43	0.04	0.07	9.75						
AV	156.734k	33.68	55.64	-21.96	9.86	Line	-	23.82	0.04	0.07	9.75						
QP	220.053k	44.17	62.81	-18.64	9.82	Line	-	34.35	0.04	0.09	9.69						
AV	220.053k	29.63	52.81	-23.18	9.82	Line	-	19.81	0.04	0.09	9.69						
QP	389.447k	31.28	58.08	-26.80	9.93	Line	-	21.35	0.05	0.12	9.76						
AV	389.447k	22.73	48.08	-25.35	9.93	Line	-	12.80	0.05	0.12	9.76						
QP	711.605k	33.25	56.00	-22.75	9.95	Line	-	23.30	0.06	0.10	9.79						
AV	711.605k	22.43	46.00	-23.57	9.95	Line	-	12.48	0.06	0.10	9.79						
QP	3.007M	25.79	56.00	-30.21	9.97	Line	-	15.82	0.09	0.09	9.79						
AV	3.007M	20.39	46.00	-25.61	9.97	Line	-	10.42	0.09	0.09	9.79						
QP	7.652M	30.24	60.00	-29.76	10.03	Line	-	20.21	0.18	0.06	9.79						
AV	7.652M	24.46	50.00	-25.54	10.03	Line	-	14.43	0.18	0.06	9.79						

Conducted Emissions at Powerline_Mode 1



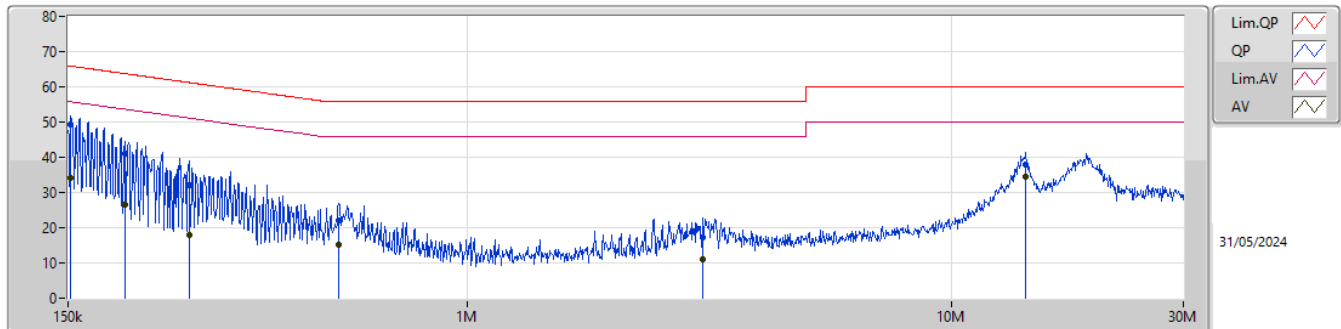
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	169.76k	52.35	64.97	-12.62	9.86	Neutral	-	42.49	0.06	0.08	9.72						
AV	169.76k	36.11	54.97	-18.86	9.86	Neutral	-	26.25	0.06	0.08	9.72						
QP	228.103k	43.64	62.52	-18.88	9.86	Neutral	-	33.78	0.06	0.10	9.70						
AV	228.103k	28.08	52.52	-24.44	9.86	Neutral	-	18.22	0.06	0.10	9.70						
QP	348.261k	31.95	59.00	-27.05	9.92	Neutral	-	22.03	0.07	0.11	9.74						
AV	348.261k	18.61	49.00	-30.39	9.92	Neutral	-	8.69	0.07	0.11	9.74						
QP	675.618k	30.53	56.00	-25.47	9.96	Neutral	-	20.57	0.08	0.10	9.78						
AV	675.618k	20.64	46.00	-25.36	9.96	Neutral	-	10.68	0.08	0.10	9.78						
QP	2.912M	24.59	56.00	-31.41	9.99	Neutral	-	14.60	0.11	0.09	9.79						
AV	2.912M	19.52	46.00	-26.48	9.99	Neutral	-	9.53	0.11	0.09	9.79						
QP	7.412M	30.57	60.00	-29.43	10.07	Neutral	-	20.50	0.22	0.06	9.79						
AV	7.412M	24.26	50.00	-25.74	10.07	Neutral	-	14.19	0.22	0.06	9.79						

Conducted Emissions at Powerline_Mode 2



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	151.807k	48.67	65.90	-17.23	9.87	Line	-	38.80	0.04	0.07	9.76						
AV	151.807k	33.51	55.90	-22.39	9.87	Line	-	23.64	0.04	0.07	9.76						
QP	247.062k	32.67	61.85	-29.18	9.84	Line	-	22.83	0.04	0.10	9.70						
AV	247.062k	17.66	51.85	-34.19	9.84	Line	-	7.82	0.04	0.10	9.70						
QP	442.514k	19.87	57.01	-37.14	9.93	Line	-	9.94	0.05	0.12	9.76						
AV	442.514k	10.61	47.01	-36.40	9.93	Line	-	0.68	0.05	0.12	9.76						
QP	560.037k	19.43	56.00	-36.57	9.93	Line	-	9.50	0.05	0.11	9.77						
AV	560.037k	14.62	46.00	-31.38	9.93	Line	-	4.69	0.05	0.11	9.77						
QP	3.27M	18.21	56.00	-37.79	9.96	Line	-	8.25	0.09	0.08	9.79						
AV	3.27M	9.52	46.00	-36.48	9.96	Line	-	-0.44	0.09	0.08	9.79						
QP	13.871M	36.10	60.00	-23.90	10.16	Line	-	25.94	0.26	0.08	9.82						
AV	13.871M	31.51	50.00	-18.49	10.16	Line	-	21.35	0.26	0.08	9.82						

Conducted Emissions at Powerline_Mode 2



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	151.807k	49.33	65.90	-16.57	9.89	Neutral	-	39.44	0.06	0.07	9.76						
AV	151.807k	34.18	55.90	-21.72	9.89	Neutral	-	24.29	0.06	0.07	9.76						
QP	196.781k	41.09	63.74	-22.65	9.83	Neutral	-	31.26	0.06	0.09	9.68						
AV	196.781k	26.39	53.74	-27.35	9.83	Neutral	-	16.56	0.06	0.09	9.68						
QP	266.53k	31.97	61.22	-29.25	9.87	Neutral	-	22.10	0.06	0.10	9.71						
AV	266.53k	18.02	51.22	-33.20	9.87	Neutral	-	8.15	0.06	0.10	9.71						
QP	542.434k	22.01	56.00	-33.99	9.95	Neutral	-	12.06	0.07	0.11	9.77						
AV	542.434k	15.09	46.00	-30.91	9.95	Neutral	-	5.14	0.07	0.11	9.77						
QP	3.067M	17.24	56.00	-38.76	9.99	Neutral	-	7.25	0.11	0.09	9.79						
AV	3.067M	10.89	46.00	-35.11	9.99	Neutral	-	0.90	0.11	0.09	9.79						
QP	14.208M	37.88	60.00	-22.12	10.23	Neutral	-	27.65	0.33	0.08	9.82						
AV	14.208M	34.44	50.00	-15.56	10.23	Neutral	-	24.21	0.33	0.08	9.82						

**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)	718.75k	1.046M	1M05F1D	707.5k	1.038M
BT-LE(2Mbps)	1.36M	2.114M	2M11F1D	1.32M	2.106M

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

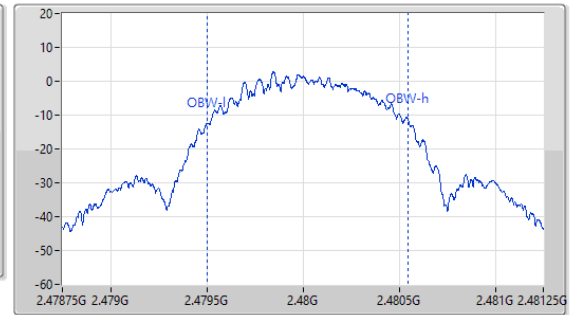
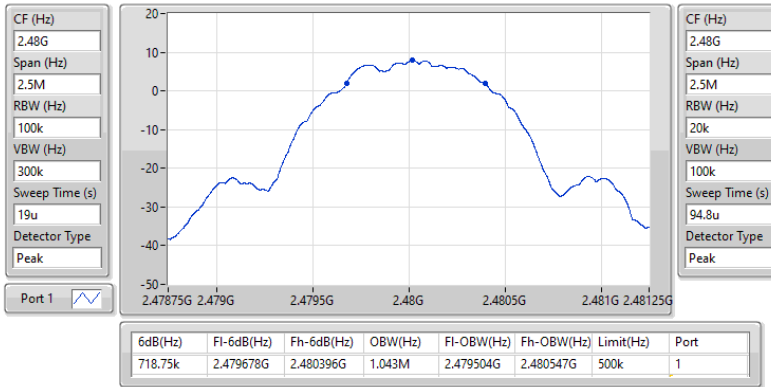
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	500k	707.5k	1.038M
2440MHz	Pass	500k	715k	1.046M
2480MHz	Pass	500k	718.75k	1.043M
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	500k	1.32M	2.109M
2440MHz	Pass	500k	1.325M	2.106M
2480MHz	Pass	500k	1.36M	2.114M

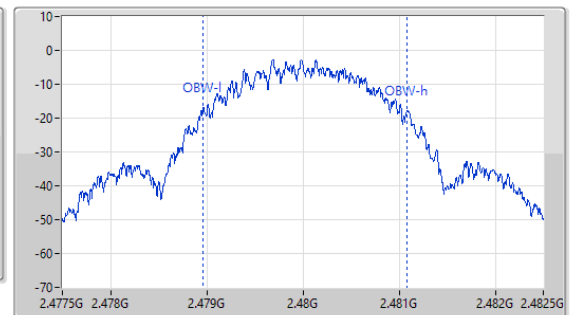
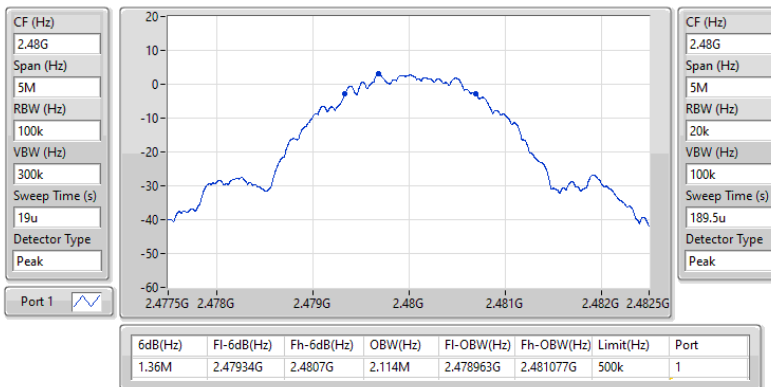
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_BT-LE(1Mbps)
EBW-DTS
2480MHz

09/08/2024


2.4-2.4835GHz_BT-LE(2Mbps)
EBW-DTS
2480MHz

12/08/2024





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	9.78	0.00951
BT-LE(2Mbps)	9.80	0.00955

**Result**

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	5.50	9.78	30.00
2440MHz	Pass	5.50	9.71	30.00
2480MHz	Pass	5.50	9.67	30.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	5.50	9.79	30.00
2440MHz	Pass	5.50	9.80	30.00
2480MHz	Pass	5.50	7.10	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)	-8.21
BT-LE(2Mbps)	-7.68

RBW = 3kHz;



Result

Mode	Result	DG (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	5.50	-8.21	8.00
2440MHz	Pass	5.50	-8.26	8.00
2480MHz	Pass	5.50	-8.26	8.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	5.50	-7.82	8.00
2440MHz	Pass	5.50	-7.68	8.00
2480MHz	Pass	5.50	-10.54	8.00

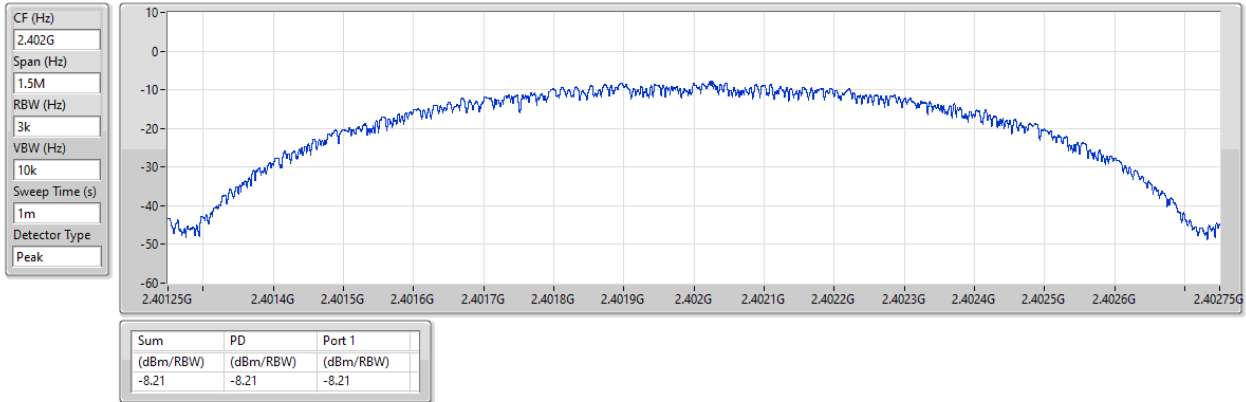
DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;
Inf = There's no restriction for the limit.

2.4-2.4835GHz_BT-LE(1Mbps)

PSD

2402MHz

09/08/2024

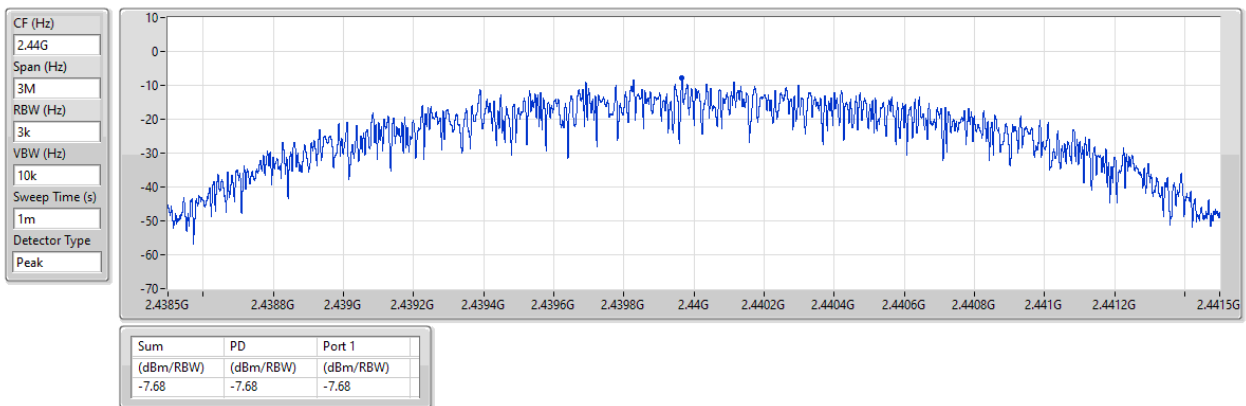


2.4-2.4835GHz_BT-LE(2Mbps)

PSD

2440MHz

12/08/2024



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	2.40217G	8.60	-21.40	2.15558G	-54.95	2.4G	-42.11	2.4G	-43.32	2.50306G	-52.75	16.26011G	-41.25	1
BT-LE(2Mbps)	Pass	2.44008G	6.69	-23.31	2.11798G	-55.40	2.4G	-24.66	2.4G	-23.70	2.50162G	-52.60	16.91813G	-40.98	1

Result

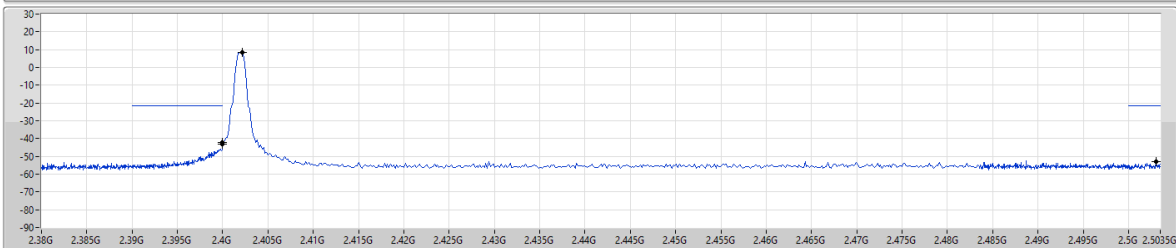
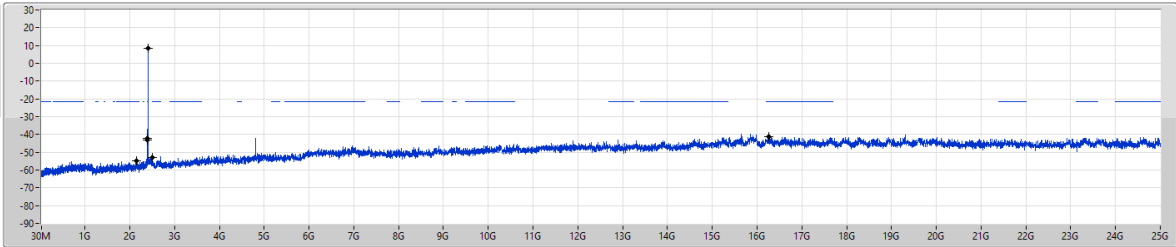
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40217G	8.60	-21.40	2.15558G	-54.95	2.4G	-42.11	2.4G	-43.32	2.50306G	-52.75	16.26011G	-41.25	1
2440MHz	Pass	2.40217G	8.60	-21.40	668.03M	-55.09	2.39652G	-53.88	2.4G	-56.01	2.50162G	-53.01	16.20387G	-40.91	1
2480MHz	Pass	2.40217G	8.60	-21.40	2.1121G	-54.34	2.394G	-52.97	2.4G	-57.45	2.50014G	-53.41	23.31839G	-41.07	1
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.44008G	6.69	-23.31	2.11798G	-55.40	2.4G	-24.66	2.4G	-23.70	2.50162G	-52.60	16.91813G	-40.98	1
2440MHz	Pass	2.44008G	6.69	-23.31	2.3095G	-54.65	2.39016G	-53.63	2.4G	-54.54	2.50058G	-53.35	23.30714G	-40.52	1
2480MHz	Pass	2.44008G	6.69	-23.31	1.96288G	-54.36	2.39804G	-52.78	2.4G	-55.46	2.50294G	-53.06	16.29667G	-40.63	1

2.4-2.4835GHz_BT-LE(1Mbps)

CSEndB-DTS

2402MHz

09/08/2024

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

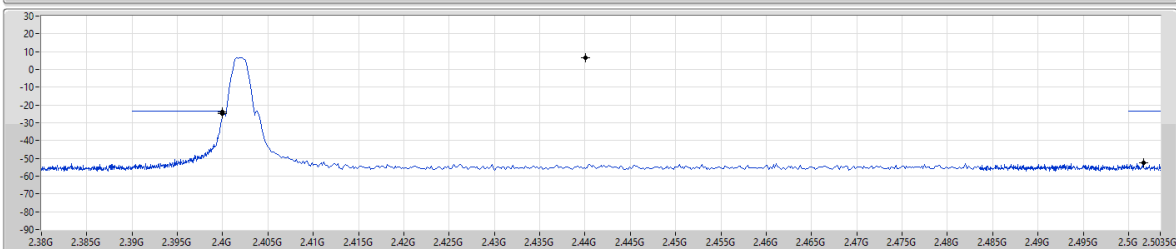
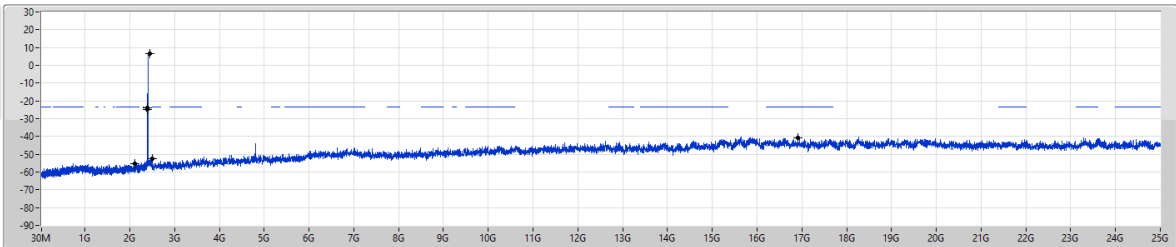
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.40217G	8.60	-21.40	2.15558G	-54.95	2.4G	-42.11	2.4G	-43.32	2.50306G	-52.75	16.26011G	-41.25	1

2.4-2.4835GHz_BT-LE(2Mbps)

CSEndB-DTS

2402MHz

12/08/2024

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
2.44008G	6.69	-23.31	2.11798G	-55.40	2.4G	-24.66	2.4G	-23.70	2.50162G	-52.60	16.91813G	-40.98	1



Summary

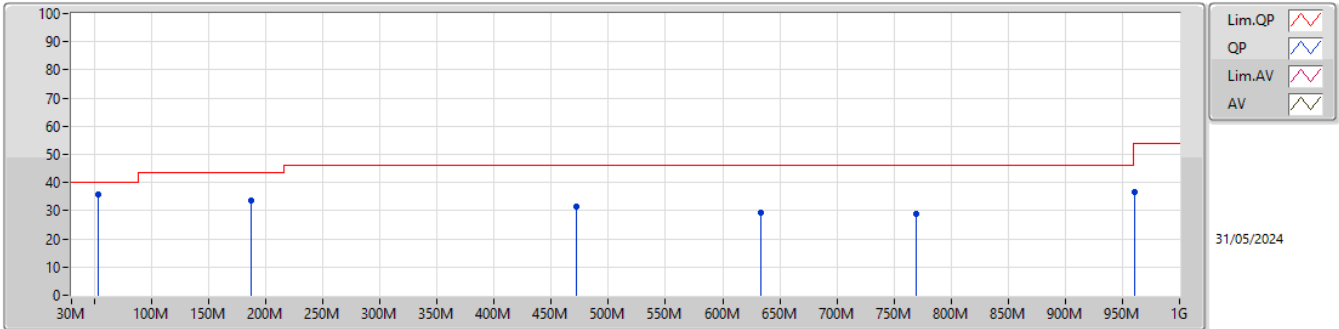
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
BT-LE(2Mbps)	Pass	PK	53.28M	35.83	40.00	-4.17	3	Vertical	0	1.00

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-
2440MHz_Adapter	Pass	PK	53.28M	35.83	40.00	-4.17	3	Vertical	0	1.00
2440MHz_Adapter	Pass	PK	187.14M	33.74	43.50	-9.76	3	Vertical	0	1.00
2440MHz_Adapter	Pass	PK	472.32M	31.29	46.00	-14.71	3	Vertical	0	1.00
2440MHz_Adapter	Pass	PK	633.34M	29.36	46.00	-16.64	3	Vertical	0	1.00
2440MHz_Adapter	Pass	PK	769.14M	28.85	46.00	-17.15	3	Vertical	0	1.00
2440MHz_Adapter	Pass	PK	961.2M	36.46	54.00	-17.54	3	Vertical	0	1.00
2440MHz_Adapter	Pass	PK	53.28M	31.33	40.00	-8.67	3	Horizontal	360	1.00
2440MHz_Adapter	Pass	PK	187.14M	30.85	43.50	-12.65	3	Horizontal	360	1.00
2440MHz_Adapter	Pass	PK	464.56M	31.75	46.00	-14.25	3	Horizontal	360	1.00
2440MHz_Adapter	Pass	PK	656.62M	36.36	46.00	-9.64	3	Horizontal	360	1.00
2440MHz_Adapter	Pass	PK	769.14M	34.66	46.00	-11.34	3	Horizontal	360	1.00
2440MHz_Adapter	Pass	PK	961.2M	36.55	54.00	-17.45	3	Horizontal	360	1.00
2440MHz_PoE	Pass	PK	111.48M	26.20	43.50	-17.30	3	Vertical	360	1.00
2440MHz_PoE	Pass	PK	192.96M	27.85	43.50	-15.65	3	Vertical	360	1.00
2440MHz_PoE	Pass	PK	470.38M	32.70	46.00	-13.30	3	Vertical	360	1.00
2440MHz_PoE	Pass	PK	633.34M	29.89	46.00	-16.11	3	Vertical	360	1.00
2440MHz_PoE	Pass	PK	769.14M	29.12	46.00	-16.88	3	Vertical	360	1.00
2440MHz_PoE	Pass	PK	961.2M	39.37	54.00	-14.63	3	Vertical	360	1.00
2440MHz_PoE	Pass	PK	117.3M	28.50	43.50	-15.00	3	Horizontal	0	1.00
2440MHz_PoE	Pass	PK	307.42M	26.62	46.00	-19.38	3	Horizontal	0	1.00
2440MHz_PoE	Pass	PK	431.58M	39.99	46.00	-6.01	3	Horizontal	0	1.00
2440MHz_PoE	Pass	PK	656.62M	36.51	46.00	-9.49	3	Horizontal	0	1.00
2440MHz_PoE	Pass	PK	769.14M	33.99	46.00	-12.01	3	Horizontal	0	1.00
2440MHz_PoE	Pass	PK	961.2M	37.56	54.00	-16.44	3	Horizontal	0	1.00

2.4-2.4835GHz_BT-LE(2Mbps)

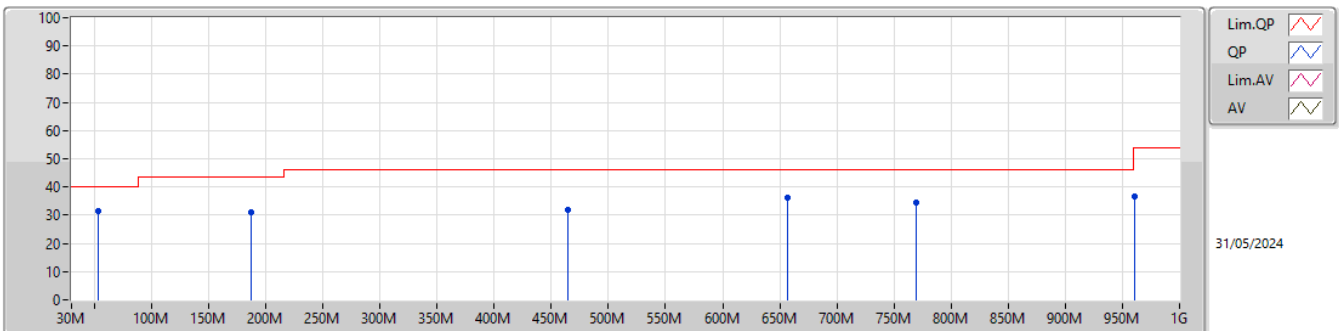
2440MHz_Adapter



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	53.28M	35.83	40.00	-4.17	-30.64	3	Vertical	0	1.00	66.47	13.32	0.70	44.66
PK	187.14M	33.74	43.50	-9.76	-28.28	3	Vertical	0	1.00	62.02	14.99	1.30	44.57
PK	472.32M	31.29	46.00	-14.71	-18.31	3	Vertical	0	1.00	49.60	23.69	2.00	44.00
PK	633.34M	29.36	46.00	-16.64	-14.79	3	Vertical	0	1.00	44.15	26.87	2.28	43.94
PK	769.14M	28.85	46.00	-17.15	-12.60	3	Vertical	0	1.00	41.45	28.70	2.54	43.84
PK	961.2M	36.46	54.00	-17.54	-9.44	3	Vertical	0	1.00	45.90	31.48	2.86	43.78

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	53.28M	31.33	40.00	-8.67	-30.64	3	Horizontal	360	1.00	61.97	13.32	0.70	44.66
PK	187.14M	30.85	43.50	-12.65	-28.28	3	Horizontal	360	1.00	59.13	14.99	1.30	44.57
PK	464.56M	31.75	46.00	-14.25	-18.45	3	Horizontal	360	1.00	50.20	23.59	1.97	44.01
PK	656.62M	36.36	46.00	-9.64	-14.68	3	Horizontal	360	1.00	51.04	26.93	2.33	43.94
PK	769.14M	34.66	46.00	-11.34	-12.60	3	Horizontal	360	1.00	47.26	28.70	2.54	43.84
PK	961.2M	36.55	54.00	-17.45	-9.44	3	Horizontal	360	1.00	45.99	31.48	2.86	43.78



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	50.12	54.00	-3.88	3	Vertical	45	1.61
BT-LE(2Mbps)	Pass	AV	2.4835G	53.78	54.00	-0.22	3	Vertical	44	1.50

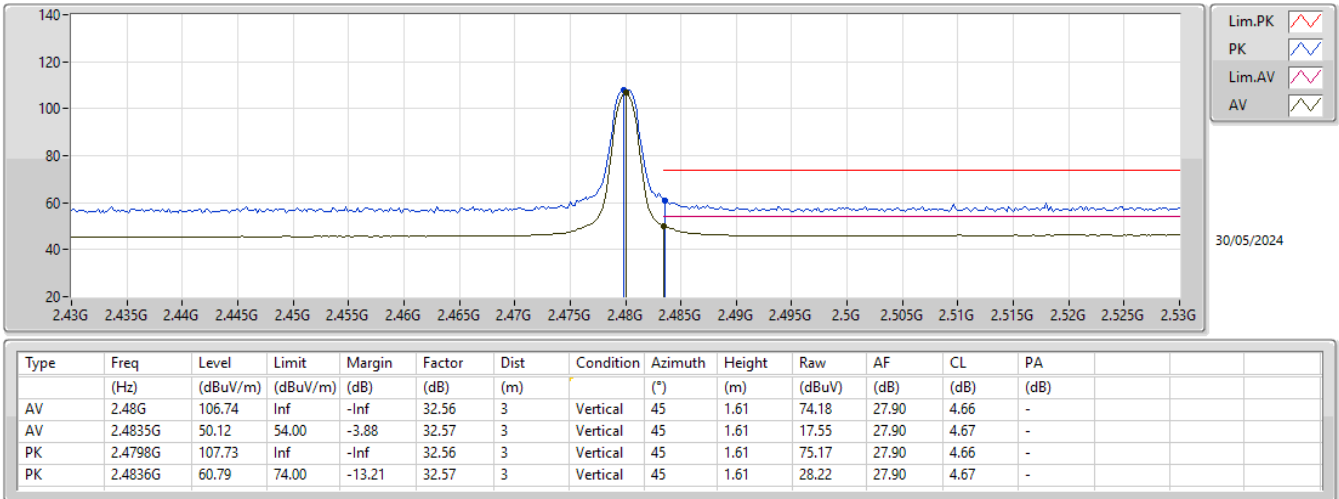
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.39G	45.47	54.00	-8.53	3	Vertical	43	1.58
2402MHz	Pass	AV	2.402G	107.71	Inf	-Inf	3	Vertical	43	1.58
2402MHz	Pass	PK	2.3846G	57.87	74.00	-16.13	3	Vertical	43	1.58
2402MHz	Pass	PK	2.4018G	108.72	Inf	-Inf	3	Vertical	43	1.58
2402MHz	Pass	AV	2.3896G	45.44	54.00	-8.56	3	Horizontal	344	2.95
2402MHz	Pass	AV	2.402G	105.98	Inf	-Inf	3	Horizontal	344	2.95
2402MHz	Pass	PK	2.3524G	58.57	74.00	-15.43	3	Horizontal	344	2.95
2402MHz	Pass	PK	2.4022G	106.98	Inf	-Inf	3	Horizontal	344	2.95
2402MHz	Pass	AV	4.80396G	48.05	54.00	-5.95	3	Vertical	48	1.83
2402MHz	Pass	PK	4.80338G	53.66	74.00	-20.34	3	Vertical	48	1.83
2402MHz	Pass	AV	4.80396G	43.56	54.00	-10.44	3	Horizontal	34	1.50
2402MHz	Pass	PK	4.80368G	50.18	74.00	-23.82	3	Horizontal	34	1.50
2402MHz	Pass	AV	2.3876G	45.27	54.00	-8.73	3	Vertical	43	1.16
2440MHz	Pass	AV	2.44G	106.61	Inf	-Inf	3	Vertical	43	1.16
2440MHz	Pass	AV	2.4944G	45.98	54.00	-8.02	3	Vertical	43	1.16
2440MHz	Pass	PK	2.3628G	57.93	74.00	-16.07	3	Vertical	43	1.16
2440MHz	Pass	PK	2.4404G	107.60	Inf	-Inf	3	Vertical	43	1.16
2440MHz	Pass	PK	2.4876G	58.60	74.00	-15.40	3	Vertical	43	1.16
2440MHz	Pass	AV	2.3884G	45.29	54.00	-8.71	3	Horizontal	10	2.93
2440MHz	Pass	AV	2.44G	100.11	Inf	-Inf	3	Horizontal	10	2.93
2440MHz	Pass	AV	2.4956G	46.00	54.00	-8.00	3	Horizontal	10	2.93
2440MHz	Pass	PK	2.3412G	57.95	74.00	-16.05	3	Horizontal	10	2.93
2440MHz	Pass	PK	2.4404G	101.07	Inf	-Inf	3	Horizontal	10	2.93
2440MHz	Pass	PK	2.4856G	58.12	74.00	-15.88	3	Horizontal	10	2.93
2440MHz	Pass	AV	4.88G	42.90	54.00	-11.10	3	Vertical	57	1.83
2440MHz	Pass	PK	4.87948G	50.27	74.00	-23.73	3	Vertical	57	1.83
2440MHz	Pass	AV	4.87998G	39.34	54.00	-14.66	3	Horizontal	25	1.47
2440MHz	Pass	PK	4.88052G	48.19	74.00	-25.81	3	Horizontal	25	1.47
2480MHz	Pass	AV	2.48G	106.74	Inf	-Inf	3	Vertical	45	1.61
2480MHz	Pass	AV	2.4835G	50.12	54.00	-3.88	3	Vertical	45	1.61
2480MHz	Pass	PK	2.4798G	107.73	Inf	-Inf	3	Vertical	45	1.61
2480MHz	Pass	PK	2.4836G	60.79	74.00	-13.21	3	Vertical	45	1.61
2480MHz	Pass	AV	2.48G	103.22	Inf	-Inf	3	Horizontal	346	2.83
2480MHz	Pass	AV	2.4835G	48.07	54.00	-5.93	3	Horizontal	346	2.83
2480MHz	Pass	PK	2.4798G	104.25	Inf	-Inf	3	Horizontal	346	2.83
2480MHz	Pass	PK	2.4835G	59.38	74.00	-14.62	3	Horizontal	346	2.83
2480MHz	Pass	AV	4.95992G	44.97	54.00	-9.03	3	Vertical	48	1.53
2480MHz	Pass	PK	4.95986G	51.86	74.00	-22.14	3	Vertical	48	1.53
2480MHz	Pass	AV	4.96004G	40.67	54.00	-13.33	3	Horizontal	21	1.47
2480MHz	Pass	PK	4.96042G	48.99	74.00	-25.01	3	Horizontal	21	1.47
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.39G	45.61	54.00	-8.39	3	Vertical	42	1.57
2402MHz	Pass	AV	2.402G	105.92	Inf	-Inf	3	Vertical	42	1.57
2402MHz	Pass	PK	2.389G	58.11	74.00	-15.89	3	Vertical	42	1.57
2402MHz	Pass	PK	2.4016G	108.46	Inf	-Inf	3	Vertical	42	1.57
2402MHz	Pass	AV	2.3898G	45.54	54.00	-8.46	3	Horizontal	343	2.95
2402MHz	Pass	AV	2.402G	104.19	Inf	-Inf	3	Horizontal	343	2.95
2402MHz	Pass	PK	2.3832G	58.21	74.00	-15.79	3	Horizontal	343	2.95
2402MHz	Pass	PK	2.4016G	106.72	Inf	-Inf	3	Horizontal	343	2.95
2402MHz	Pass	AV	4.80306G	45.78	54.00	-8.22	3	Vertical	49	1.90
2402MHz	Pass	PK	4.8031G	53.99	74.00	-20.01	3	Vertical	49	1.90
2402MHz	Pass	AV	4.80314G	41.31	54.00	-12.69	3	Horizontal	32	1.44
2402MHz	Pass	PK	4.803G	50.29	74.00	-23.71	3	Horizontal	32	1.44
2440MHz	Pass	AV	2.3828G	45.28	54.00	-8.72	3	Vertical	43	1.18
2440MHz	Pass	AV	2.44G	105.20	Inf	-Inf	3	Vertical	43	1.18
2440MHz	Pass	AV	2.4992G	46.01	54.00	-7.99	3	Vertical	43	1.18
2440MHz	Pass	PK	2.35G	58.01	74.00	-15.99	3	Vertical	43	1.18
2440MHz	Pass	PK	2.4404G	107.73	Inf	-Inf	3	Vertical	43	1.18
2440MHz	Pass	PK	2.4984G	58.88	74.00	-15.12	3	Vertical	43	1.18
2440MHz	Pass	AV	2.3548G	45.30	54.00	-8.70	3	Horizontal	0	2.93

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2440MHz	Pass	AV	2.44G	102.03	Inf	-Inf	3	Horizontal	0	2.93
2440MHz	Pass	AV	2.4992G	46.01	54.00	-7.99	3	Horizontal	0	2.93
2440MHz	Pass	PK	2.3884G	57.37	74.00	-16.63	3	Horizontal	0	2.93
2440MHz	Pass	PK	2.4404G	104.58	Inf	-Inf	3	Horizontal	0	2.93
2440MHz	Pass	PK	2.4948G	58.38	74.00	-15.62	3	Horizontal	0	2.93
2440MHz	Pass	AV	4.88094G	39.97	54.00	-14.03	3	Vertical	55	1.50
2440MHz	Pass	PK	4.881G	49.76	74.00	-24.24	3	Vertical	55	1.50
2440MHz	Pass	AV	4.88096G	37.53	54.00	-16.47	3	Horizontal	25	1.33
2440MHz	Pass	PK	4.87906G	48.79	74.00	-25.21	3	Horizontal	25	1.33
2480MHz	Pass	AV	2.48G	104.74	Inf	-Inf	3	Vertical	44	1.50
2480MHz	Pass	AV	2.4835G	53.78	54.00	-0.22	3	Vertical	44	1.50
2480MHz	Pass	PK	2.4796G	107.30	Inf	-Inf	3	Vertical	44	1.50
2480MHz	Pass	PK	2.4835G	64.24	74.00	-9.76	3	Vertical	44	1.50
2480MHz	Pass	AV	2.48G	101.72	Inf	-Inf	3	Horizontal	347	2.83
2480MHz	Pass	AV	2.4835G	51.41	54.00	-2.59	3	Horizontal	347	2.83
2480MHz	Pass	PK	2.4796G	104.31	Inf	-Inf	3	Horizontal	347	2.83
2480MHz	Pass	PK	2.4835G	62.84	74.00	-11.16	3	Horizontal	347	2.83
2480MHz	Pass	AV	4.9591G	42.29	54.00	-11.71	3	Vertical	48	1.54
2480MHz	Pass	PK	4.95906G	51.30	74.00	-22.70	3	Vertical	48	1.54
2480MHz	Pass	AV	4.9609G	38.42	54.00	-15.58	3	Horizontal	22	1.50
2480MHz	Pass	PK	4.95894G	48.51	74.00	-25.49	3	Horizontal	22	1.50

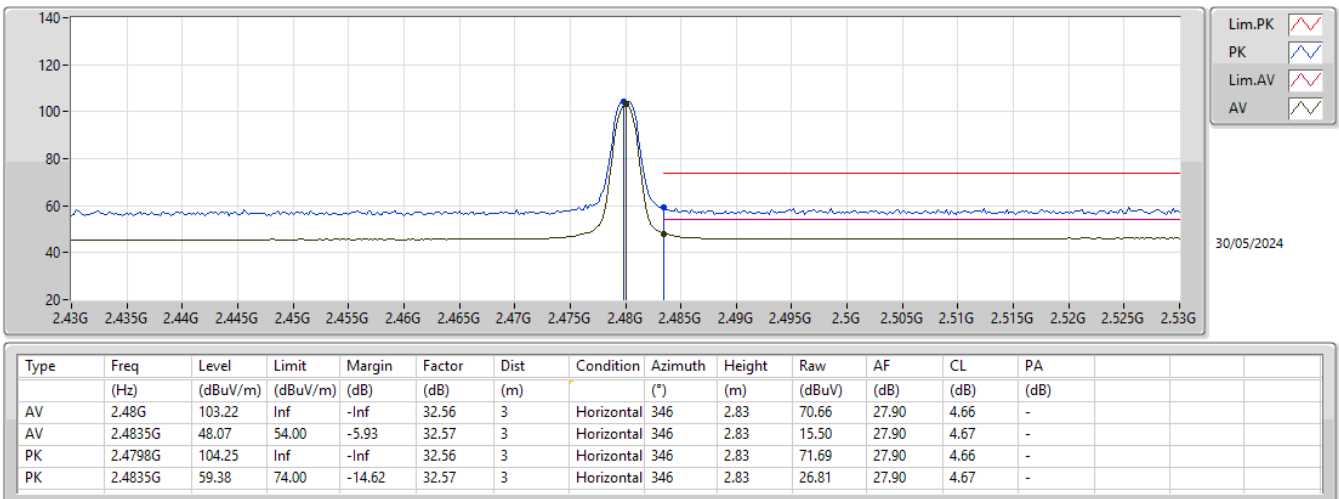
2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX



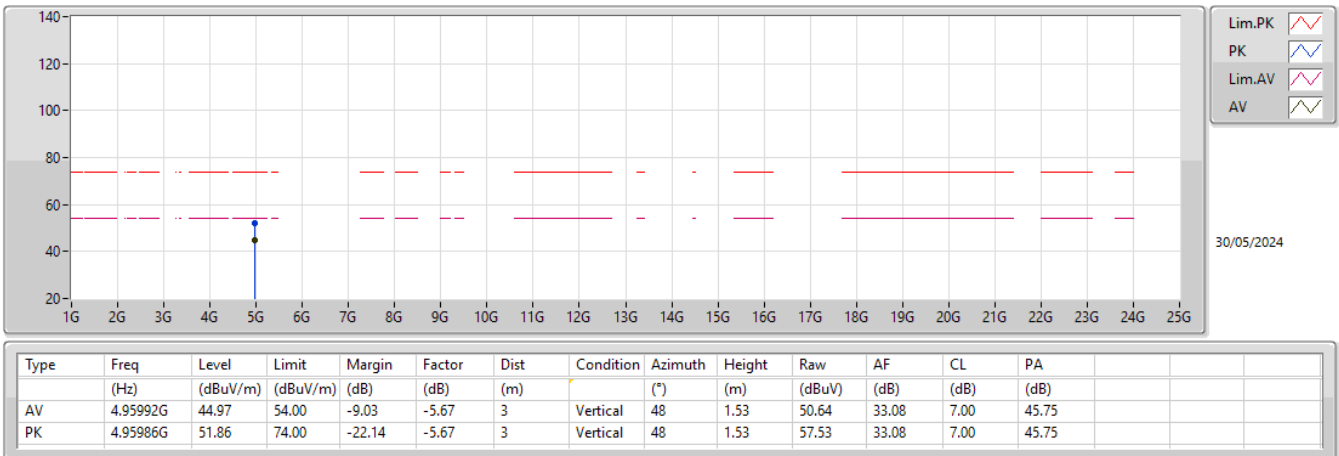
2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX



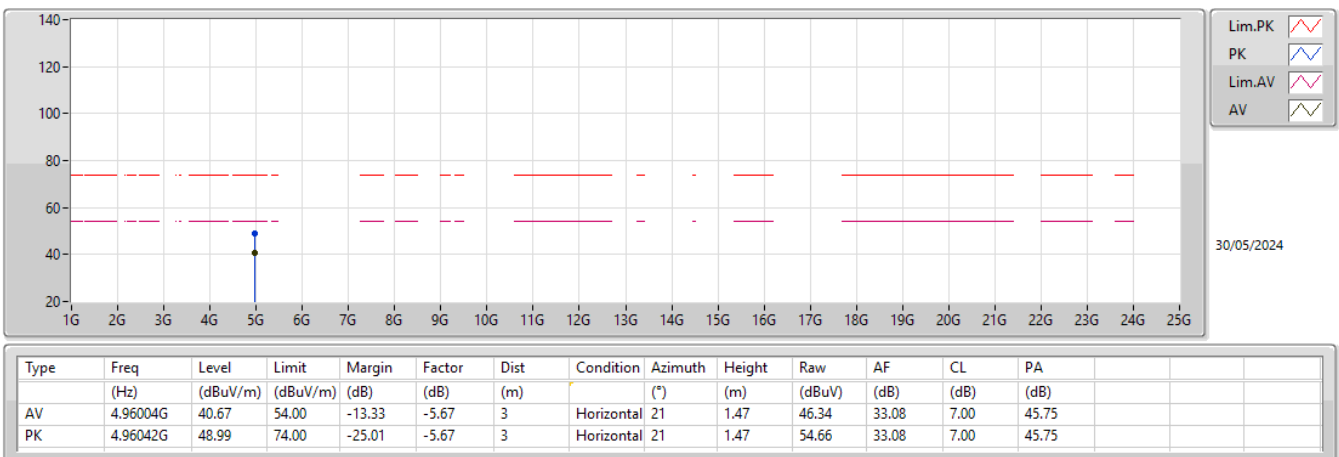
2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX



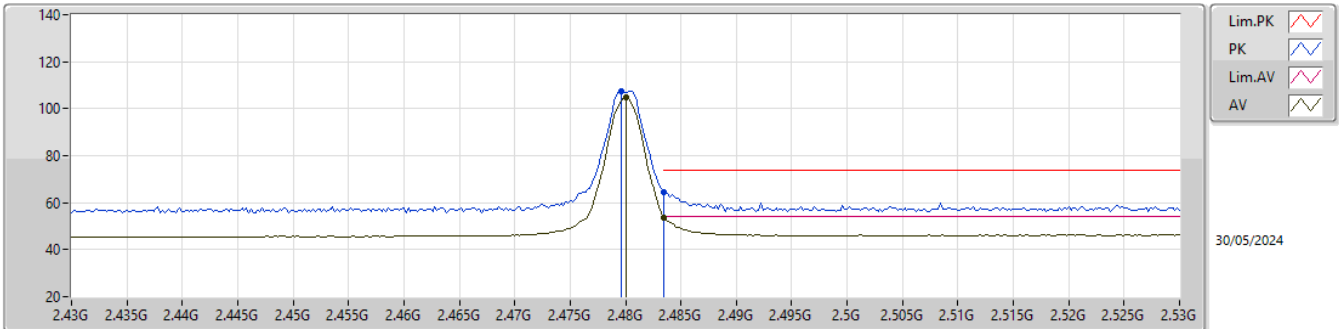
2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX



2.4-2.4835GHz_BT-LE(2Mbps)

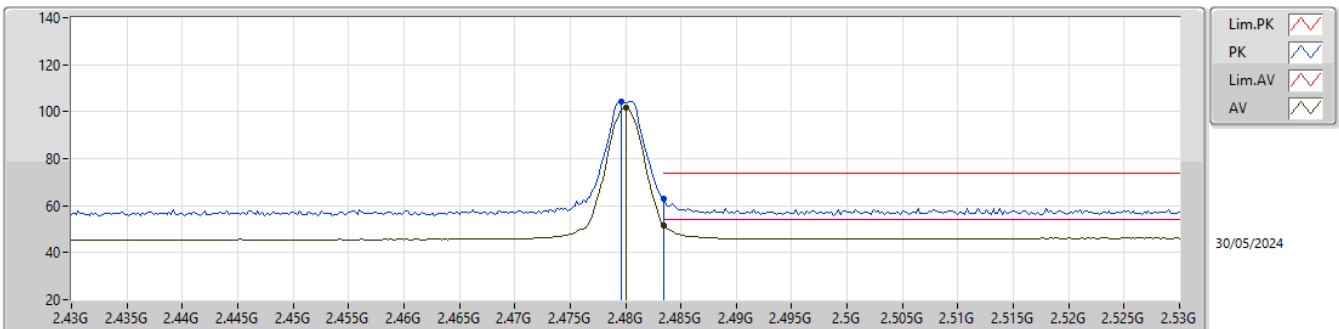
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.48G	104.74	Inf	-Inf	32.56	3	Vertical	44	1.50	72.18	27.90	4.66	-
AV	2.4835G	53.78	54.00	-0.22	32.57	3	Vertical	44	1.50	21.21	27.90	4.67	-
PK	2.4796G	107.30	Inf	-Inf	32.56	3	Vertical	44	1.50	74.74	27.90	4.66	-
PK	2.4835G	64.24	74.00	-9.76	32.57	3	Vertical	44	1.50	31.67	27.90	4.67	-

2.4-2.4835GHz_BT-LE(2Mbps)

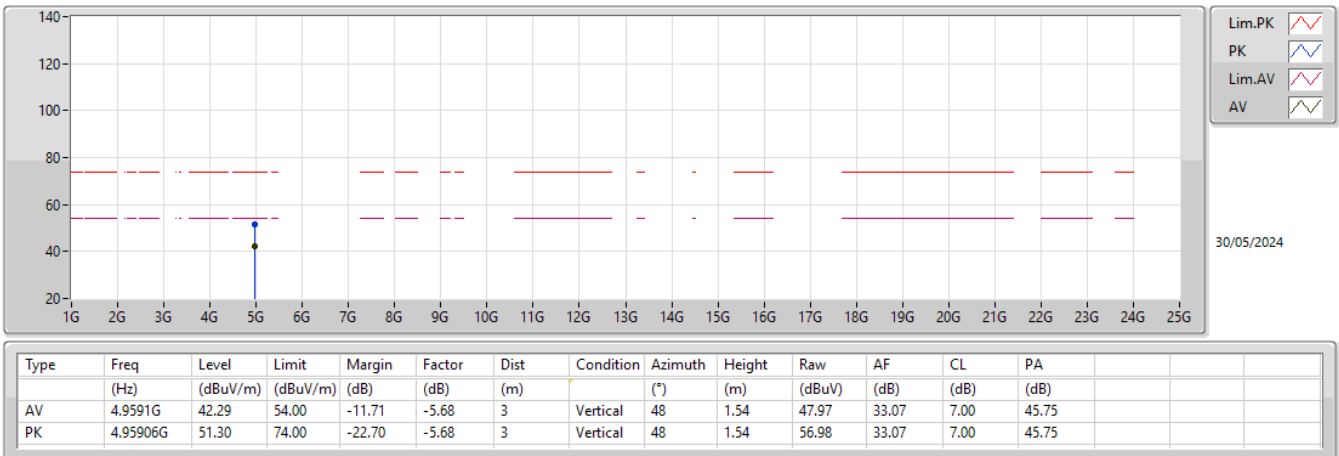
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.48G	101.72	Inf	-Inf	32.56	3	Horizontal	347	2.83	69.16	27.90	4.66	-
AV	2.4835G	51.41	54.00	-2.59	32.57	3	Horizontal	347	2.83	18.84	27.90	4.67	-
PK	2.4796G	104.31	Inf	-Inf	32.56	3	Horizontal	347	2.83	71.75	27.90	4.66	-
PK	2.4835G	62.84	74.00	-11.16	32.57	3	Horizontal	347	2.83	30.27	27.90	4.67	-

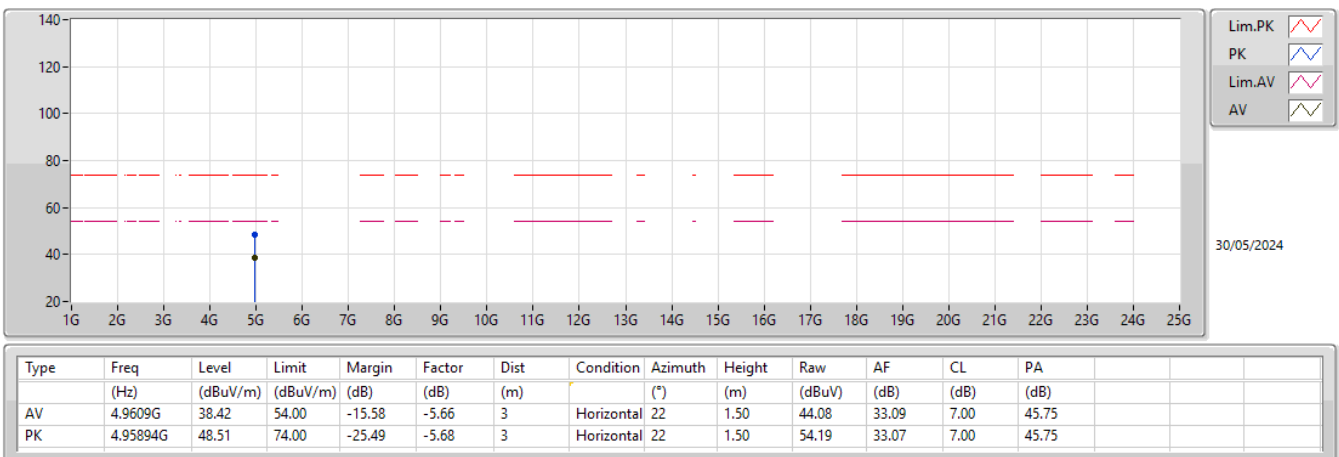
2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX



2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX





Summary

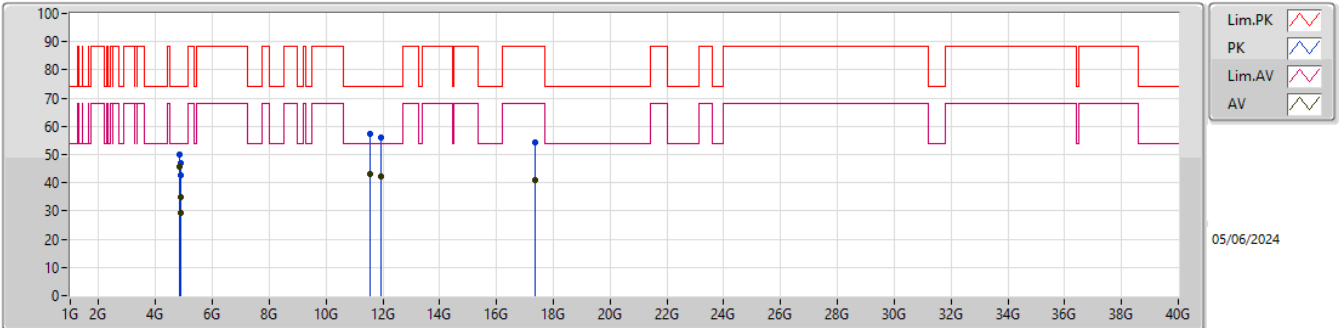
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	4.82402G	46.80	54.00	-7.20	Horizontal
Mode 2	Pass	AV	4.82398G	43.86	54.00	-10.14	Horizontal
Mode 3	Pass	AV	4.82407G	43.59	54.00	-10.41	Horizontal

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
Mode 1	Pass	AV	4.82404G	45.49	54.00	-8.51	3	Vertical	50	1.01
Mode 1	Pass	AV	4.87186G	29.24	54.00	-24.76	3	Vertical	101	2.77
Mode 1	Pass	AV	4.87904G	34.88	54.00	-19.12	3	Vertical	55	1.50
Mode 1	Pass	AV	11.57216G	43.19	54.00	-10.81	3	Vertical	65	1.42
Mode 1	Pass	AV	11.93714G	42.17	54.00	-11.83	3	Vertical	23	1.21
Mode 1	Pass	AV	17.3562G	41.03	68.20	-27.17	3	Vertical	302	1.41
Mode 1	Pass	PK	4.82401G	50.06	74.00	-23.94	3	Vertical	50	1.01
Mode 1	Pass	PK	4.87554G	42.84	74.00	-31.16	3	Vertical	101	2.77
Mode 1	Pass	PK	4.8807G	46.81	74.00	-27.19	3	Vertical	55	1.50
Mode 1	Pass	PK	11.57168G	57.26	74.00	-16.74	3	Vertical	65	1.42
Mode 1	Pass	PK	11.93732G	56.10	74.00	-17.90	3	Vertical	23	1.21
Mode 1	Pass	PK	17.35608G	54.50	88.20	-33.70	3	Vertical	302	1.41
Mode 1	Pass	AV	4.82402G	46.80	54.00	-7.20	3	Horizontal	360	1.00
Mode 1	Pass	AV	4.86685G	34.12	54.00	-19.88	3	Horizontal	1	2.03
Mode 1	Pass	AV	4.88093G	32.86	54.00	-21.14	3	Horizontal	23	1.27
Mode 1	Pass	AV	11.56712G	43.02	54.00	-10.98	3	Horizontal	309	1.44
Mode 1	Pass	AV	11.9396G	41.16	54.00	-12.84	3	Horizontal	70	1.63
Mode 1	Pass	AV	17.35002G	41.21	68.20	-26.99	3	Horizontal	347	1.50
Mode 1	Pass	PK	4.82399G	50.39	74.00	-23.61	3	Horizontal	360	1.00
Mode 1	Pass	PK	4.86585G	49.28	74.00	-24.72	3	Horizontal	1	2.03
Mode 1	Pass	PK	4.88093G	45.62	74.00	-28.38	3	Horizontal	23	1.27
Mode 1	Pass	PK	11.56532G	56.32	74.00	-17.68	3	Horizontal	309	1.44
Mode 1	Pass	PK	11.9399G	54.43	74.00	-19.57	3	Horizontal	70	1.63
Mode 1	Pass	PK	17.37042G	55.86	88.20	-32.34	3	Horizontal	347	1.50
Mode 2	Pass	AV	4.82403G	42.17	54.00	-11.83	3	Vertical	356	1.65
Mode 2	Pass	AV	4.88095G	33.69	54.00	-20.31	3	Vertical	54	1.50
Mode 2	Pass	AV	11.14044G	38.39	54.00	-15.61	3	Vertical	164	1.50
Mode 2	Pass	AV	11.57222G	42.82	54.00	-11.18	3	Vertical	64	1.50
Mode 2	Pass	AV	11.93732G	42.29	54.00	-11.71	3	Vertical	20	1.24
Mode 2	Pass	AV	16.75878G	39.93	68.20	-28.27	3	Vertical	337	1.50
Mode 2	Pass	AV	17.3553G	40.78	68.20	-27.42	3	Vertical	300	1.50
Mode 2	Pass	PK	4.82371G	48.71	74.00	-25.29	3	Vertical	356	1.65
Mode 2	Pass	PK	4.88101G	46.09	74.00	-27.91	3	Vertical	54	1.50
Mode 2	Pass	PK	11.13006G	52.33	74.00	-21.67	3	Vertical	164	1.50
Mode 2	Pass	PK	11.58074G	56.91	74.00	-17.09	3	Vertical	64	1.50
Mode 2	Pass	PK	11.93684G	55.92	74.00	-18.08	3	Vertical	20	1.24
Mode 2	Pass	PK	16.71624G	53.57	88.20	-34.63	3	Vertical	337	1.50
Mode 2	Pass	PK	17.36658G	54.71	88.20	-33.49	3	Vertical	300	1.50
Mode 2	Pass	AV	4.82398G	43.86	54.00	-10.14	3	Horizontal	357	1.50
Mode 2	Pass	AV	4.8809G	32.42	54.00	-21.58	3	Horizontal	24	1.00
Mode 2	Pass	AV	11.14464G	38.45	54.00	-15.55	3	Horizontal	46	1.90
Mode 2	Pass	AV	11.56718G	42.42	54.00	-11.58	3	Horizontal	310	1.50
Mode 2	Pass	AV	11.93894G	41.28	54.00	-12.72	3	Horizontal	68	1.60
Mode 2	Pass	AV	16.75734G	39.97	68.20	-28.23	3	Horizontal	282	1.50
Mode 2	Pass	AV	17.34954G	41.19	68.20	-27.01	3	Horizontal	348	1.50
Mode 2	Pass	PK	4.82402G	49.87	74.00	-24.13	3	Horizontal	357	1.50
Mode 2	Pass	PK	4.8808G	44.91	74.00	-29.09	3	Horizontal	24	1.00
Mode 2	Pass	PK	11.1558G	52.53	74.00	-21.47	3	Horizontal	46	1.90
Mode 2	Pass	PK	11.56802G	54.90	74.00	-19.10	3	Horizontal	310	1.50
Mode 2	Pass	PK	11.93882G	55.11	74.00	-18.89	3	Horizontal	68	1.60

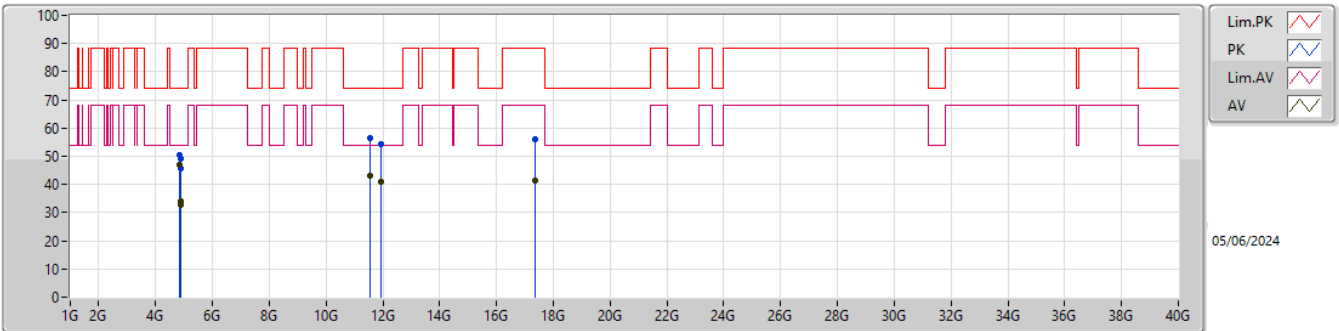
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
Mode 2	Pass	PK	16.7886G	53.12	88.20	-35.08	3	Horizontal	282	1.50
Mode 2	Pass	PK	17.34954G	54.32	88.20	-33.88	3	Horizontal	348	1.50
Mode 3	Pass	AV	4.82399G	41.75	54.00	-12.25	3	Vertical	357	1.64
Mode 3	Pass	AV	4.88092G	33.91	54.00	-20.09	3	Vertical	54	1.50
Mode 3	Pass	AV	11.57207G	42.73	54.00	-11.27	3	Vertical	64	1.44
Mode 3	Pass	AV	11.93711G	42.62	54.00	-11.38	3	Vertical	18	1.33
Mode 3	Pass	AV	12.84272G	39.46	68.20	-28.74	3	Vertical	111	1.50
Mode 3	Pass	AV	17.35515G	41.01	68.20	-27.19	3	Vertical	302	1.50
Mode 3	Pass	PK	4.82391G	48.47	74.00	-25.53	3	Vertical	357	1.64
Mode 3	Pass	PK	4.88089G	46.72	74.00	-27.28	3	Vertical	54	1.50
Mode 3	Pass	PK	11.57273G	57.17	74.00	-16.83	3	Vertical	64	1.44
Mode 3	Pass	PK	11.93726G	56.50	74.00	-17.50	3	Vertical	18	1.33
Mode 3	Pass	PK	12.82256G	53.74	88.20	-34.46	3	Vertical	111	1.50
Mode 3	Pass	PK	17.35455G	55.07	88.20	-33.13	3	Vertical	302	1.50
Mode 3	Pass	AV	4.82407G	43.59	54.00	-10.41	3	Horizontal	357	1.50
Mode 3	Pass	AV	4.88087G	32.30	54.00	-21.70	3	Horizontal	24	1.14
Mode 3	Pass	AV	11.56673G	41.79	54.00	-12.21	3	Horizontal	311	1.50
Mode 3	Pass	AV	11.93939G	41.04	54.00	-12.96	3	Horizontal	69	1.56
Mode 3	Pass	AV	12.84422G	39.53	68.20	-28.67	3	Horizontal	360	1.23
Mode 3	Pass	AV	17.35878G	41.72	68.20	-26.48	3	Horizontal	319	2.97
Mode 3	Pass	PK	4.82398G	49.75	74.00	-24.25	3	Horizontal	357	1.50
Mode 3	Pass	PK	4.88119G	45.10	74.00	-28.90	3	Horizontal	24	1.14
Mode 3	Pass	PK	11.56655G	56.05	74.00	-17.95	3	Horizontal	311	1.50
Mode 3	Pass	PK	11.94017G	54.40	74.00	-19.60	3	Horizontal	69	1.56
Mode 3	Pass	PK	12.82799G	53.54	88.20	-34.66	3	Horizontal	360	1.23
Mode 3	Pass	PK	17.35959G	55.77	88.20	-32.43	3	Horizontal	319	2.97

Radiated Emissions above 1GHz_Mode 1



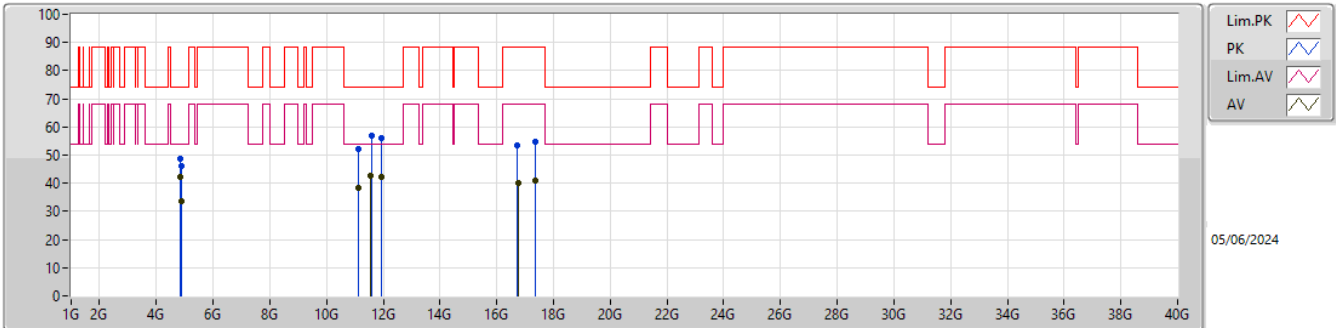
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)
AV	4.82404G	45.49	54.00	-8.51	0.54	3	Vertical	50	1.01	44.95	32.64	5.30	37.40
AV	4.87186G	29.24	54.00	-24.76	0.78	3	Vertical	101	2.77	28.46	32.80	5.32	37.34
AV	4.87904G	34.88	54.00	-19.12	0.79	3	Vertical	55	1.50	34.09	32.80	5.33	37.34
AV	11.57216G	43.19	54.00	-10.81	9.80	3	Vertical	65	1.42	33.39	39.11	8.61	37.92
AV	11.93714G	42.17	54.00	-11.83	10.11	3	Vertical	23	1.21	32.06	39.27	8.78	37.94
AV	17.3562G	41.03	68.20	-27.17	10.53	3	Vertical	302	1.41	30.50	38.01	10.62	38.10
PK	4.82401G	50.06	74.00	-23.94	0.54	3	Vertical	50	1.01	49.52	32.64	5.30	37.40
PK	4.87554G	42.84	74.00	-31.16	0.78	3	Vertical	101	2.77	42.06	32.80	5.32	37.34
PK	4.8807G	46.81	74.00	-27.19	0.80	3	Vertical	55	1.50	46.01	32.80	5.33	37.33
PK	11.57168G	57.26	74.00	-16.74	9.80	3	Vertical	65	1.42	47.46	39.11	8.61	37.92
PK	11.93732G	56.10	74.00	-17.90	10.11	3	Vertical	23	1.21	45.99	39.27	8.78	37.94
PK	17.35608G	54.50	88.20	-33.70	10.53	3	Vertical	302	1.41	43.97	38.01	10.62	38.10

Radiated Emissions above 1GHz_Mode 1



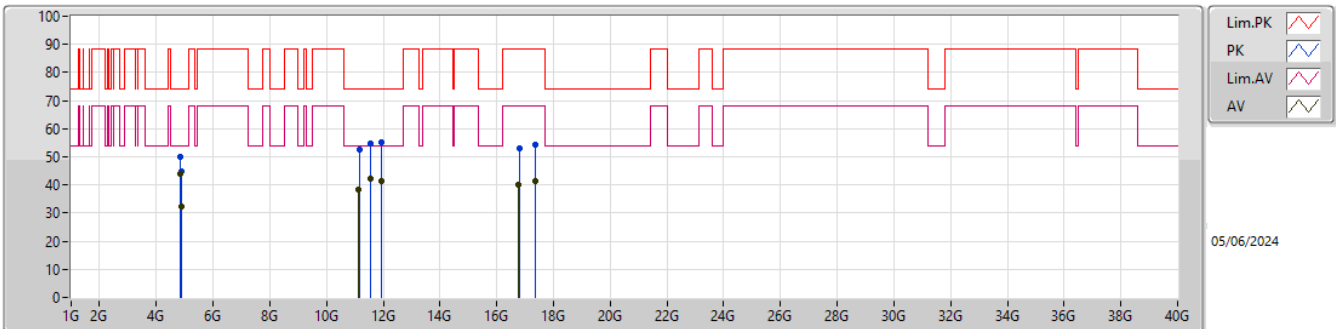
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)
AV	4.82402G	46.80	54.00	-7.20	0.54	3	Horizontal	360	1.00	46.26	32.64	5.30	37.40
AV	4.86685G	34.12	54.00	-19.88	0.77	3	Horizontal	1	2.03	33.35	32.80	5.32	37.35
AV	4.88093G	32.86	54.00	-21.14	0.80	3	Horizontal	23	1.27	32.06	32.80	5.33	37.33
AV	11.56712G	43.02	54.00	-10.98	9.82	3	Horizontal	309	1.44	33.20	39.13	8.61	37.92
AV	11.9396G	41.16	54.00	-12.84	10.12	3	Horizontal	70	1.63	31.04	39.28	8.78	37.94
AV	17.35002G	41.21	68.20	-26.99	10.52	3	Horizontal	347	1.50	30.69	38.00	10.62	38.10
PK	4.82399G	50.39	74.00	-23.61	0.54	3	Horizontal	360	1.00	49.85	32.64	5.30	37.40
PK	4.86585G	49.28	74.00	-24.72	0.77	3	Horizontal	1	2.03	48.51	32.80	5.32	37.35
PK	4.88093G	45.62	74.00	-28.38	0.80	3	Horizontal	23	1.27	44.82	32.80	5.33	37.33
PK	11.56532G	56.32	74.00	-17.68	9.83	3	Horizontal	309	1.44	46.49	39.14	8.61	37.92
PK	11.9399G	54.43	74.00	-19.57	10.12	3	Horizontal	70	1.63	44.31	39.28	8.78	37.94
PK	17.37042G	55.86	88.20	-32.34	10.57	3	Horizontal	347	1.50	45.29	38.04	10.62	38.09

Radiated Emissions above 1GHz_Mode 2



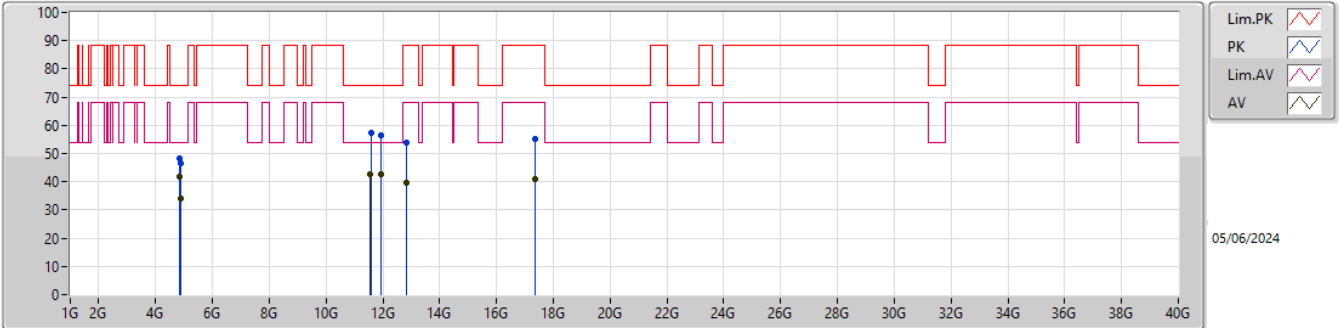
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)
AV	4.82403G	42.17	54.00	-11.83	0.54	3	Vertical	356	1.65	41.63	32.64	5.30	37.40
AV	4.88095G	33.69	54.00	-20.31	0.80	3	Vertical	54	1.50	32.89	32.80	5.33	37.33
AV	11.14044G	38.39	54.00	-15.61	9.91	3	Vertical	164	1.50	28.48	39.18	8.41	37.68
AV	11.57222G	42.82	54.00	-11.18	9.80	3	Vertical	64	1.50	33.02	39.11	8.61	37.92
AV	11.93732G	42.29	54.00	-11.71	10.11	3	Vertical	20	1.24	32.18	39.27	8.78	37.94
AV	16.75878G	39.93	68.20	-28.27	9.98	3	Vertical	337	1.50	29.95	37.80	10.44	38.26
AV	17.3553G	40.78	68.20	-27.42	10.53	3	Vertical	300	1.50	30.25	38.01	10.62	38.10
PK	4.82371G	48.71	74.00	-25.29	0.54	3	Vertical	356	1.65	48.17	32.64	5.30	37.40
PK	4.88101G	46.09	74.00	-27.91	0.80	3	Vertical	54	1.50	45.29	32.80	5.33	37.33
PK	11.13006G	52.33	74.00	-21.67	9.88	3	Vertical	164	1.50	42.45	39.16	8.40	37.68
PK	11.58074G	56.91	74.00	-17.09	9.77	3	Vertical	64	1.50	47.14	39.08	8.61	37.92
PK	11.93684G	55.92	74.00	-18.08	10.11	3	Vertical	20	1.24	45.81	39.27	8.78	37.94
PK	16.71624G	53.57	88.20	-34.63	10.11	3	Vertical	337	1.50	43.46	37.94	10.42	38.25
PK	17.36658G	54.71	88.20	-33.49	10.56	3	Vertical	300	1.50	44.15	38.03	10.62	38.09

Radiated Emissions above 1GHz_Mode 2



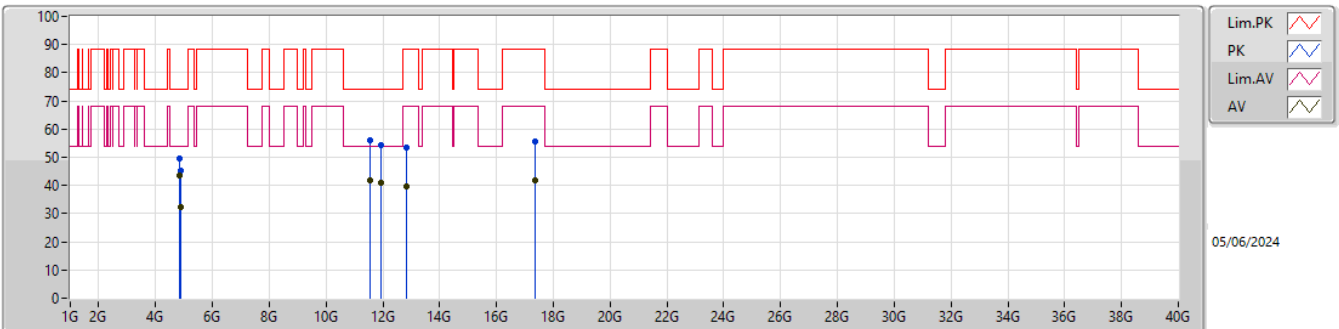
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)
AV	4.82398G	43.86	54.00	-10.14	0.54	3	Horizontal	357	1.50	43.32	32.64	5.30	37.40
AV	4.8809G	32.42	54.00	-21.58	0.80	3	Horizontal	24	1.00	31.62	32.80	5.33	37.33
AV	11.14464G	38.45	54.00	-15.55	9.91	3	Horizontal	46	1.90	28.54	39.19	8.41	37.69
AV	11.56718G	42.42	54.00	-11.58	9.82	3	Horizontal	310	1.50	32.60	39.13	8.61	37.92
AV	11.93894G	41.28	54.00	-12.72	10.12	3	Horizontal	68	1.60	31.16	39.28	8.78	37.94
AV	16.75734G	39.97	68.20	-28.23	9.98	3	Horizontal	282	1.50	29.99	37.80	10.44	38.26
AV	17.34954G	41.19	68.20	-27.01	10.51	3	Horizontal	348	1.50	30.68	38.00	10.61	38.10
PK	4.82402G	49.87	74.00	-24.13	0.54	3	Horizontal	357	1.50	49.33	32.64	5.30	37.40
PK	4.8808G	44.91	74.00	-29.09	0.80	3	Horizontal	24	1.00	44.11	32.80	5.33	37.33
PK	11.1558G	52.53	74.00	-21.47	9.91	3	Horizontal	46	1.90	42.62	39.19	8.41	37.69
PK	11.56802G	54.90	74.00	-19.10	9.82	3	Horizontal	310	1.50	45.08	39.13	8.61	37.92
PK	11.93882G	55.11	74.00	-18.89	10.12	3	Horizontal	68	1.60	44.99	39.28	8.78	37.94
PK	16.7886G	53.12	88.20	-35.08	9.99	3	Horizontal	282	1.50	43.13	37.80	10.45	38.26
PK	17.34954G	54.32	88.20	-33.88	10.51	3	Horizontal	348	1.50	43.81	38.00	10.61	38.10

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)	AF (dB/m)	CL (dB)	PA (dB)
AV	4.82399G	41.75	54.00	-12.25	0.54	3	Vertical	357	1.64	41.21	32.64	5.30	37.40
AV	4.88092G	33.91	54.00	-20.09	0.80	3	Vertical	54	1.50	33.11	32.80	5.33	37.33
AV	11.57207G	42.73	54.00	-11.27	9.80	3	Vertical	64	1.44	32.93	39.11	8.61	37.92
AV	11.93711G	42.62	54.00	-11.38	10.11	3	Vertical	18	1.33	32.51	39.27	8.78	37.94
AV	12.84272G	39.46	68.20	-28.74	10.49	3	Vertical	111	1.50	28.97	39.87	9.08	38.46
AV	17.35515G	41.01	68.20	-27.19	10.53	3	Vertical	302	1.50	30.48	38.01	10.62	38.10
PK	4.82391G	48.47	74.00	-25.53	0.54	3	Vertical	357	1.64	47.93	32.64	5.30	37.40
PK	4.88089G	46.72	74.00	-27.28	0.80	3	Vertical	54	1.50	45.92	32.80	5.33	37.33
PK	11.57273G	57.17	74.00	-16.83	9.80	3	Vertical	64	1.44	47.37	39.11	8.61	37.92
PK	11.93726G	56.50	74.00	-17.50	10.11	3	Vertical	18	1.33	46.39	39.27	8.78	37.94
PK	12.82256G	53.74	88.20	-34.46	10.41	3	Vertical	111	1.50	43.33	39.79	9.07	38.45
PK	17.35455G	55.07	88.20	-33.13	10.53	3	Vertical	302	1.50	44.54	38.01	10.62	38.10

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)	AF (dB/m)	CL (dB)	PA (dB)
AV	4.82407G	43.59	54.00	-10.41	0.54	3	Horizontal	357	1.50	43.05	32.64	5.30	37.40
AV	4.88087G	32.30	54.00	-21.70	0.80	3	Horizontal	24	1.14	31.50	32.80	5.33	37.33
AV	11.56673G	41.79	54.00	-12.21	9.82	3	Horizontal	311	1.50	31.97	39.13	8.61	37.92
AV	11.93939G	41.04	54.00	-12.96	10.12	3	Horizontal	69	1.56	30.92	39.28	8.78	37.94
AV	12.84422G	39.53	68.20	-28.67	10.50	3	Horizontal	360	1.23	29.03	39.88	9.08	38.46
AV	17.35878G	41.72	68.20	-26.48	10.55	3	Horizontal	319	2.97	31.17	38.02	10.62	38.09
PK	4.82398G	49.75	74.00	-24.25	0.54	3	Horizontal	357	1.50	49.21	32.64	5.30	37.40
PK	4.88119G	45.10	74.00	-28.90	0.80	3	Horizontal	24	1.14	44.30	32.80	5.33	37.33
PK	11.56655G	56.05	74.00	-17.95	9.82	3	Horizontal	311	1.50	46.23	39.13	8.61	37.92
PK	11.94017G	54.40	74.00	-19.60	10.12	3	Horizontal	69	1.56	44.28	39.28	8.78	37.94
PK	12.82799G	53.54	88.20	-34.66	10.43	3	Horizontal	360	1.23	43.11	39.81	9.07	38.45
PK	17.35959G	55.77	88.20	-32.43	10.55	3	Horizontal	319	2.97	45.22	38.02	10.62	38.09