

FCC Radio Test Report

FCC ID : UDX-600219010
Equipment : Cisco Wireless 9171I Series Wi-Fi 7 Access Point
Brand Name : CISCO
Model Name : CW9171I
Applicant : Cisco Systems, Inc.
170 West Tasman Drive, San Jose, CA 95134 USA
Manufacturer : Cisco Systems, Inc.
170 West Tasman Drive, San Jose, CA 95134 USA
Standard : 47 CFR FCC Part 15.247

The product was received on Apr. 21, 2025, and testing was started from May 19, 2025 and completed on Aug. 11, 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 and shown compliance with the applicable technical standards.

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


Approved by: Jackson Tsai

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

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



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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: Ryan Hsiao

Report Producer: Michelle Tsai

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std.	Ch. Frequency (MHz)	Channel Number
2400-2483.5	802.15.4	2405-2480	11-26 [16]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.15.4	5	1TX

Note:.

- ♦ Zigbee uses a O-QPSK (250kbps) modulation for DSSS.
- ♦ BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Support	Radio
1	Fii	363.00009	PIFA	I-Pex	2.4G+5G+6G	Radio1+2+3
2	Fii	363.00009	PIFA	I-Pex	2.4G+5G+6G	Radio1+2+3
3	Fii	363.00009	PIFA	I-Pex	2.4G+5G+6G	Radio 4 (Scan)
4	Fii	363.00009	PIFA	I-Pex	BT+802.15.4	-

Ant.	Port	Gain (dBi)									
		2.4G	UNII-1	UNII-2A	UNII-2C	UNII-3	UNII-5	UNII-6	UNII-7	UNII-8	BLE& IEEE 802.15.4
1	2	4.75	3.63	3.82	4.65	4.31	4.62	3.78	4.04	3.58	-
2	1	4.56	4.4	4.37	5.26	4.52	3.88	3.44	3.56	4.8	-
3	1	3.75	4.18	4.12	4.81	4.57	4.66	4.38	4.02	3.61	-
4	1	-	-	-	-	-	-	-	-	-	3.66

Wi-Fi Mode	Composite Gain (dBi)								
	2.4G	UNII-1	UNII-2A	UNII-2C	UNII-3	UNII-5	UNII-6	UNII-7	UNII-8
DG [1SS] (dBi)	6.97	5.74	5.95	6.89	6.56	6.65	5.87	5.77	5.67
DG [2SS] (dBi)	4.75	4.4	4.37	5.26	4.52	4.62	3.78	4.04	4.8

Note 1: The EUT has four antennas.

Note 2: The composite gain is derived as KDB 662911 D03 v02 which was used as directional gain. For more detail information, please refer to the Antenna Pattern Report AP541819.

**For 2.4GHz function:**

For IEEE 802.11 b/g/n/VHT/ax/be mode (1TX/2RX) (Radio 1)

Ant. 1 (port 2) and Ant. 2 (port 1) could transmit/receive.

Support diversity function and pre-tested on each single chain, the worst case was Ant. 1 (port 2) and it was recorded in this test report.

For IEEE 802.11 b/g/n/VHT/ax/be mode (2TX/2RX) (Radio 1)

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

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

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

For 5GHz function:

For IEEE 802.11 a/n/ac/ax/be mode (1TX/2RX) (Radio 2)

Ant. 1 (port 2) and Ant. 2 (port 1) could transmit/receive.

Support diversity function and pre-tested on each single chain, the worst case was Ant. 2 (port 1) and it was recorded in this test report.

For IEEE 802.11 a/n/ac/ax/be mode (2TX/2RX) (Radio 2)

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

For IEEE 802.11 a/n/ac/ax mode (1TX/1RX) (Radio 4)

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

For 6GHz function:

For IEEE 802.11 ax/be mode (1TX/2RX) (Radio 3)

Ant. 1 (port 2) and Ant. 2 (port 1) could transmit/receive.

Support diversity function and pre-tested on each single chain, the worst case was Ant. 1 (port 2) and it was recorded in this test report.

For IEEE 802.11 ax/be mode (2TX/2RX) (Radio 3)

Ant. 1 (port 2) and Ant. 2 (port 1) could transmit/receive.

For IEEE 802.11 ax mode (1TX/1RX) (Radio 4)

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

For BT function:

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

Ant. 4 (port 1) could transmit/receive.

For 802.15.4 function:

For IEEE 802.15.4 mode (1TX/1RX)

Ant. 4 (port 1) could transmit/receive.

**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 Table of Serial Number

Test item	Serial Number
RF	FVH2914A1FP

1.1.5 Mode Test Duty Cycle

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.15.4	1	0	30.001m	10Hz (DC>=0.98)

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

1.2 Testing Applied Standards

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

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2020 + Cor.1-2023 + 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	Lego Lin	22.8~24.7°C / 58~63%	30/May/2025
Radiated (Co-location)	03CH02-HY	Vasari Huang	21.6~22.1°C / 53~56%	11/Aug/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	23.7~24.3°C / 54~57%	19/May/2025~07/Jun/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	22.3~23.4°C / 51~58%	21/May/2025~23/May/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
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Mode	Power Setting
802.15.4	-
2405MHz	20
2440MHz	20
2475MHz	20
2480MHz	10

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	R1_2.4G(2*2)+R2_5G(2*2)+Scan:2.4G+5G+6G(1T*1R)+BT
2	R1_2.4G(2*2)+R3_6G(2*2)+Scan:2.4G+5G+6G(1T*1R)+BT
3	R1_2.4G(2*2)+R2_5G(2*2)+Scan:2.4G+5G+6G(1T*1R)+IEEE 802.15.4
4	R1_2.4G(2*2)+R3_6G(2*2)+Scan:2.4G+5G+6G(1T*1R)+IEEE 802.15.4
Refer to Sporton Test Report No.: FA541819 for Co-location RF Exposure Evaluation and Appendix G for Radiated Emission Co-location.	

2.3 Accessories

Accessories				
Low Profile Mounting Bracket	Brand Name	Cisco	Model Name	AIR-AP-BRACKET-1
Ceiling grid clip	Brand Name	Cisco	Model Name	AIR-AP-T-RAIL-R

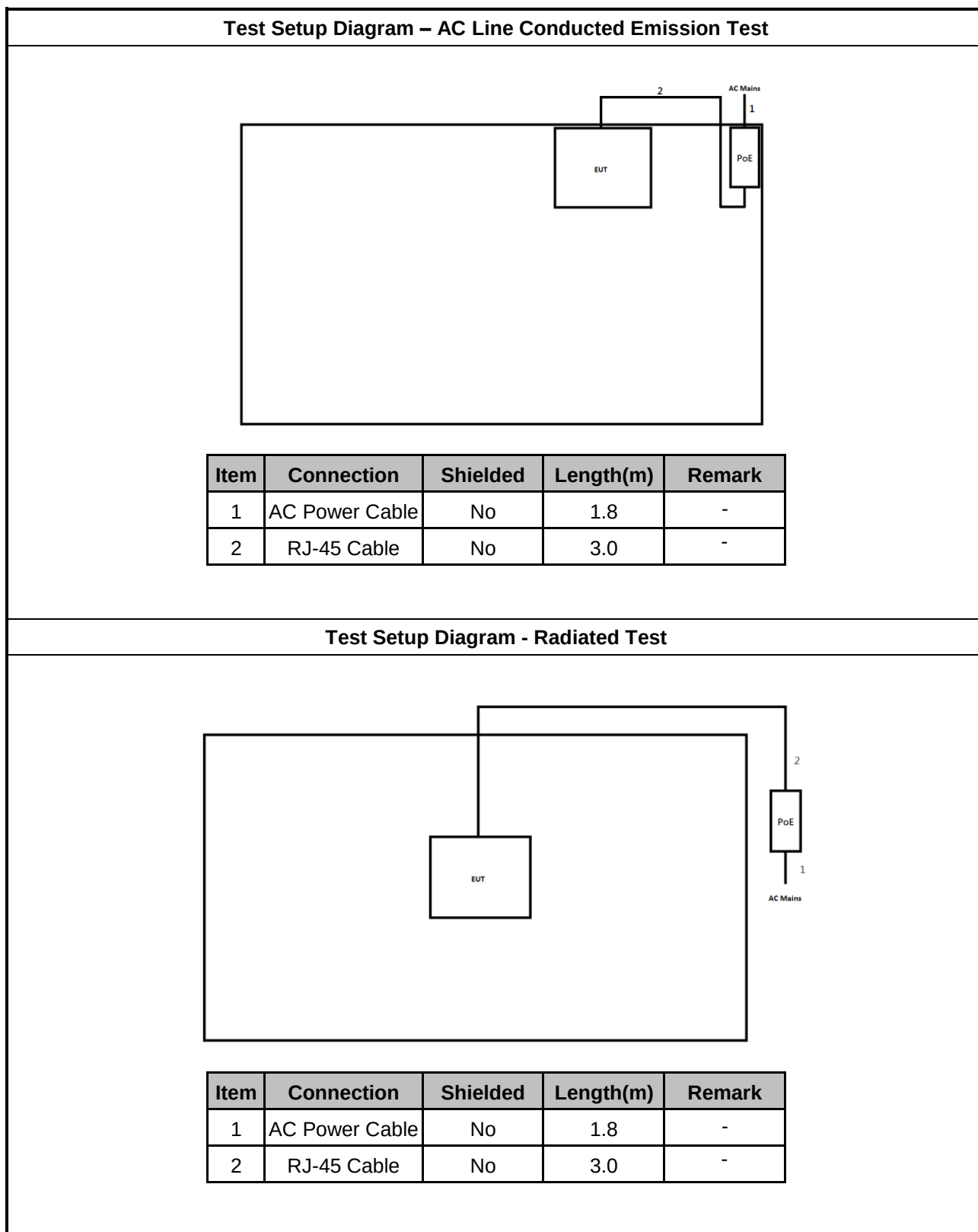
Reminder: Regarding to more detail and other information, please refer to user manual.

2.4 Support Equipment

Support Equipment – AC Conduction and Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	RJ-45 Cable	Power sync	CAT-6E-03	-	-
2	PoE	DELTA	ADH-65AR P(D)	-	Provided by Customer
3	AC Power Cable	Power sync	PW-GPC180-3	-	-

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-
3	PoE 1	DELTA	ADH-65AR B	-	Provided by Customer
4	PoE 2	PHIHONG	POE29U-1AT(PL)	-	Provided by Customer
5	Adapter 1	FSP	FSP050-DWAA1	-	Provided by Customer
6	Adapter 2	CISCO	MA-PWR-50WAC	-	Provided by Customer

2.5 Test Setup Diagram



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50
Note 1: * Decreases with the logarithm of the frequency.		

3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

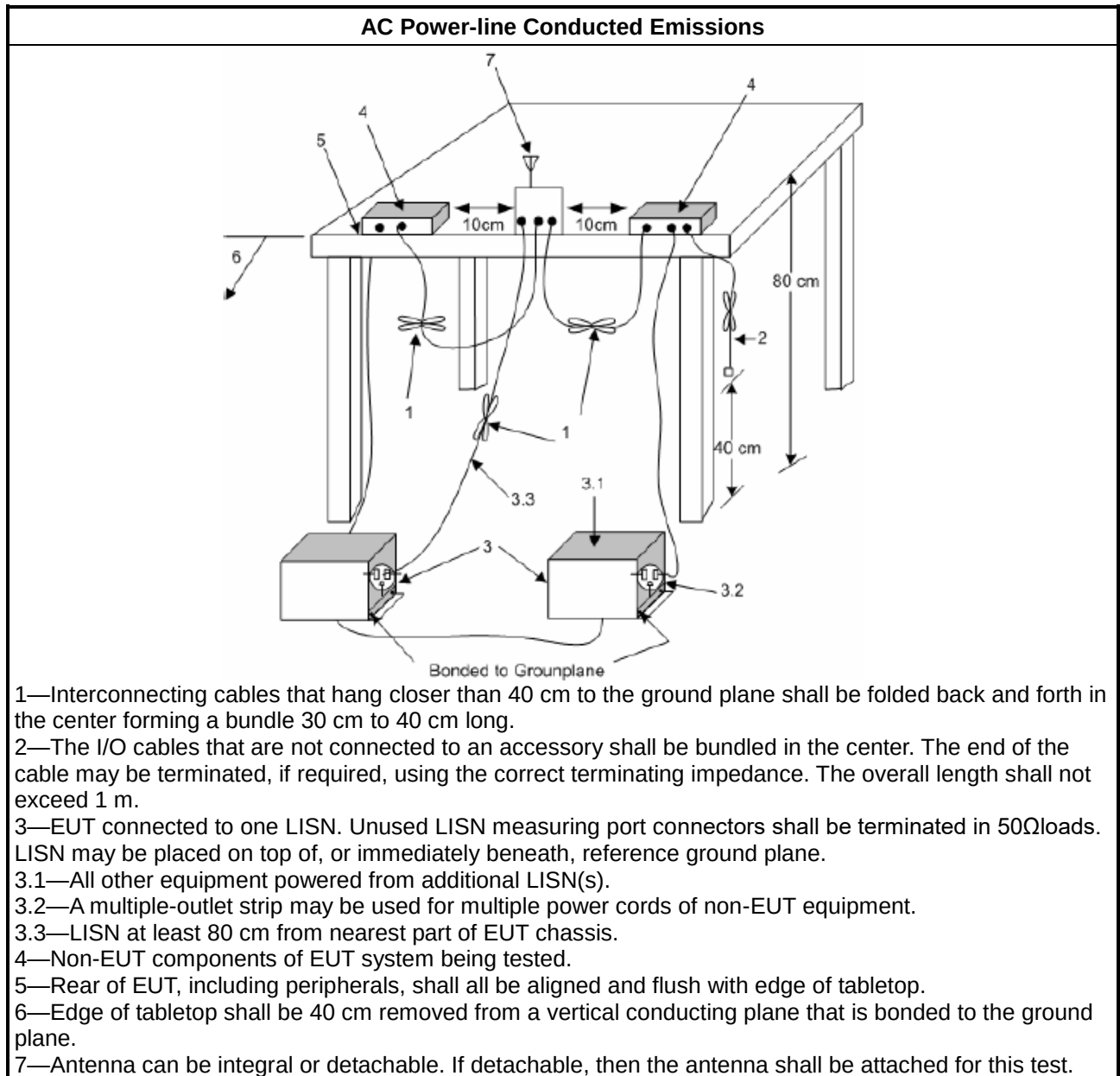
Test Method
☒ Refer as ANSI C63.10, clause 6.2 for AC power-line conducted emissions.

3.1.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + LISN(LISN Factor) + CL(Cable Loss) + AT(Attenuator).

3.1.5 Test Setup



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.

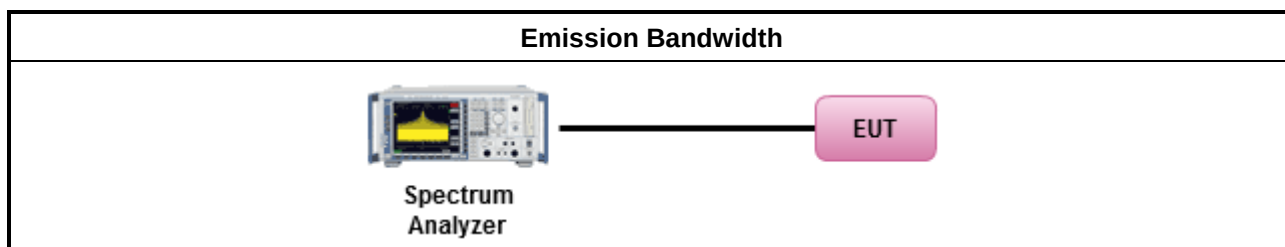
3.2.2 Measuring Instruments

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.	

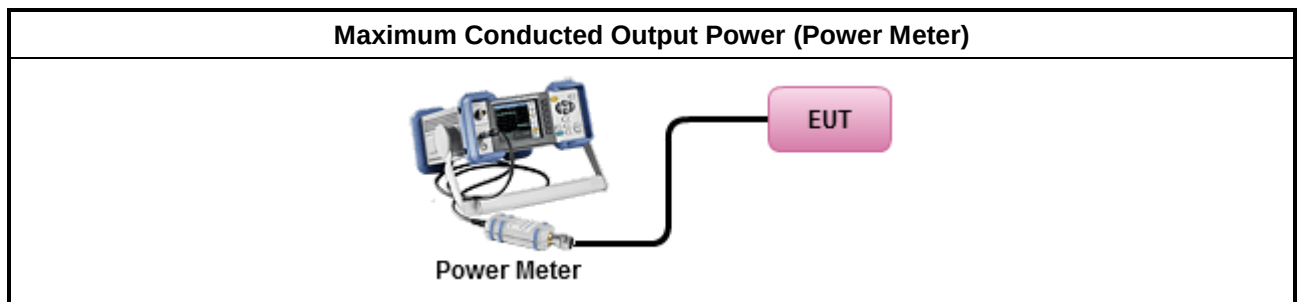
3.3.2 Measuring Instruments

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	

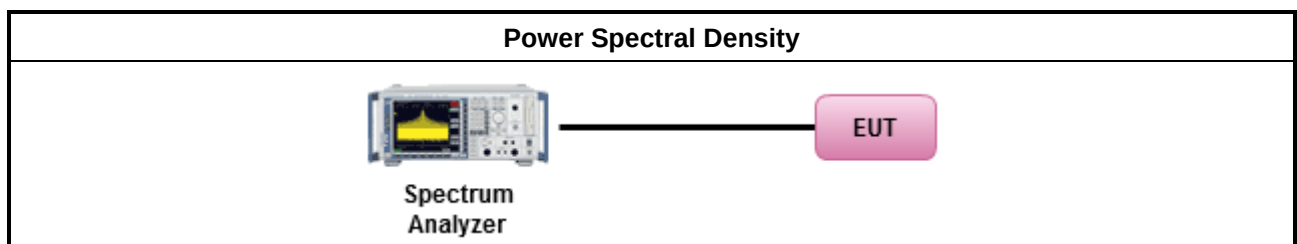
3.4.2 Measuring Instruments

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.	

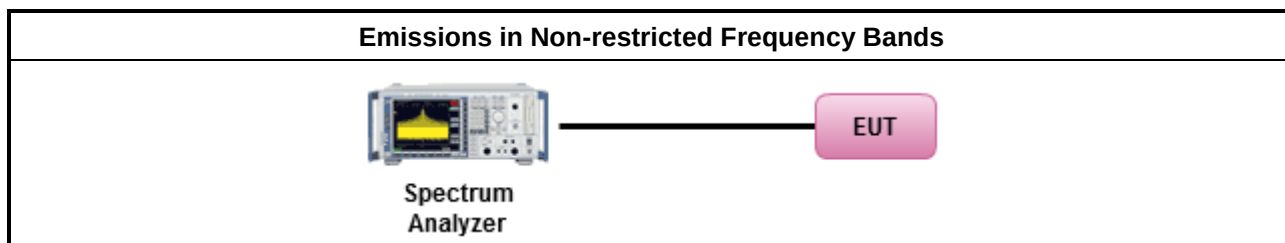
3.5.2 Measuring Instruments

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

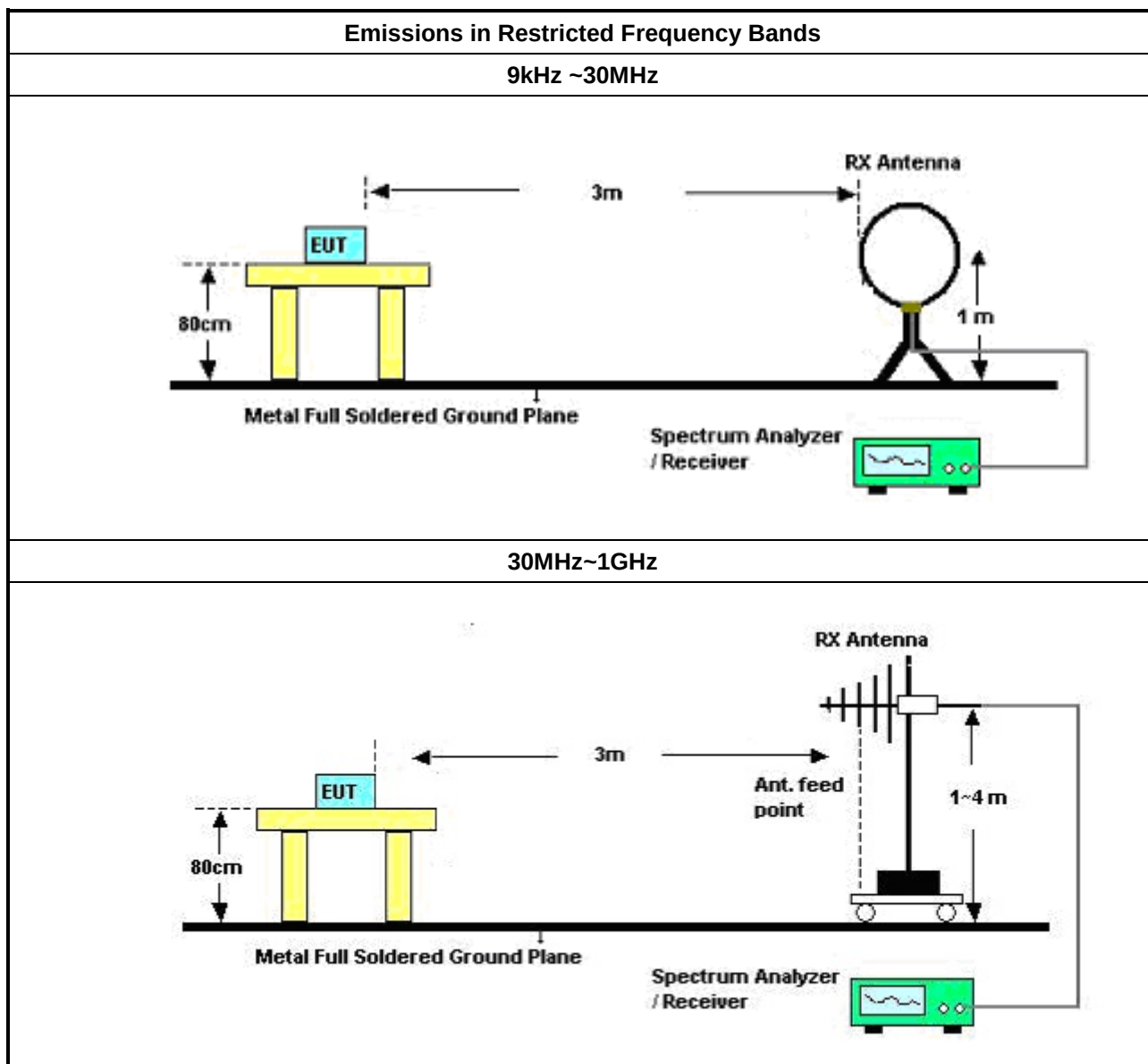
Test Method	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
For the transmitter unwanted 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.
For conducted and cabinet radiation measurement, refer as KDB 558074, clause 3 (12.7.4.2 of ANSI C63.10).	
	For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB
	For KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.

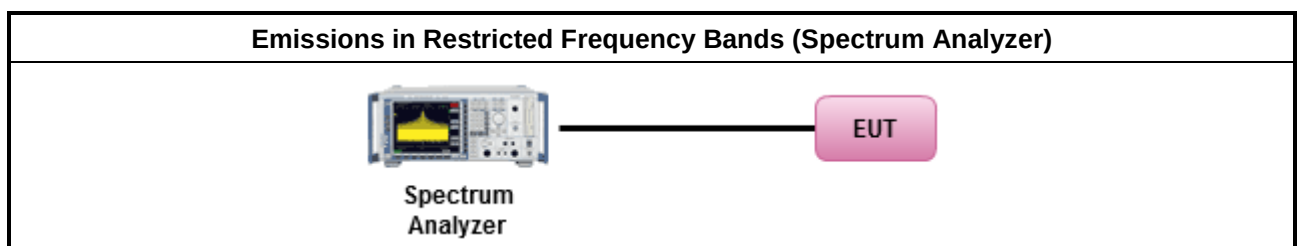
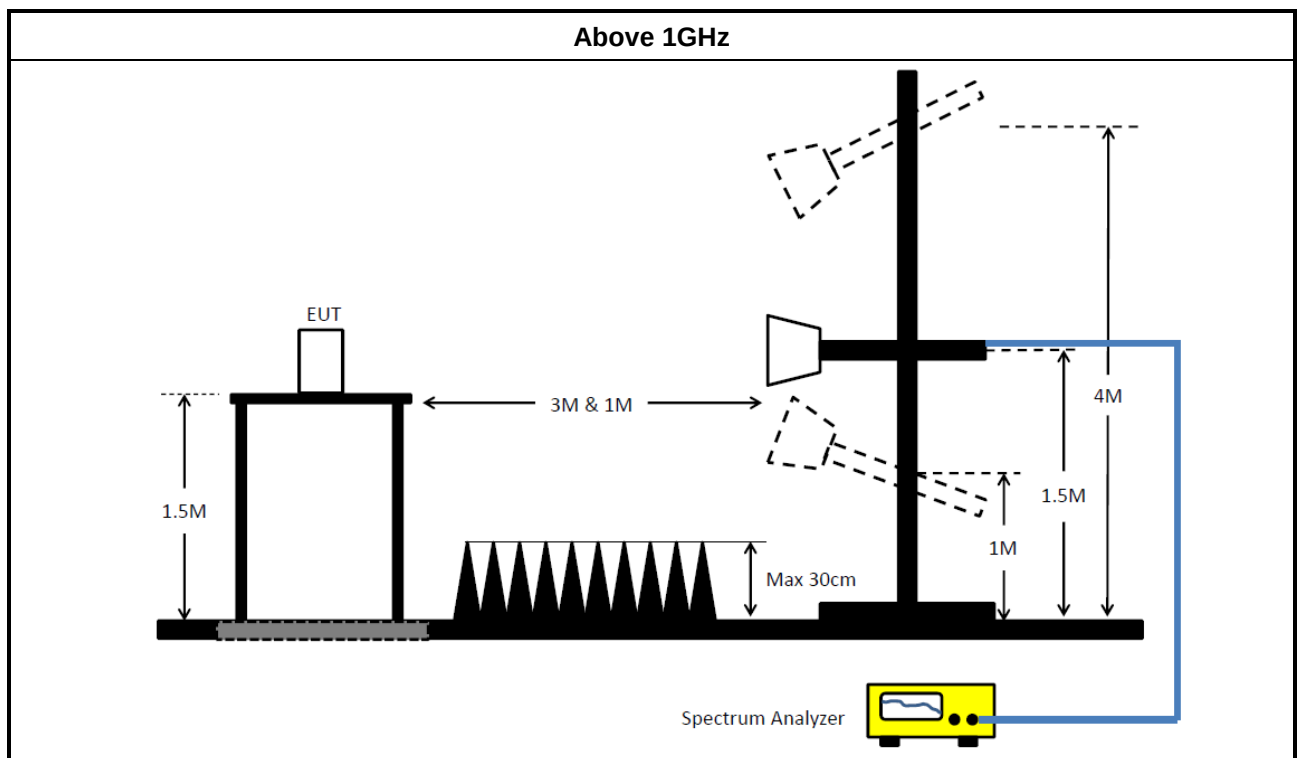
3.6.4 Measurement Results Calculation

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	11/Oct/2024	10/Oct/2025
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	26/Feb/2025	25/Feb/2026
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	17/Oct/2024	16/Oct/2025
SENSE-EMI	Sporton	V5.11.3	N/A	N/A	N/A	N/A

NCR: No Calibration Required

Instrument for Conducted Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101029	10Hz~40GHz	28/Oct/2024	27/Oct/2025
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	16/Oct/2024	15/Oct/2025
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	V5.11.23	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
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	23/Sep/2024	22/Sep/2025
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170154	18GHz~40GHz	02/Jul/2025	01/Jul/2026
RF Cable-R03m	HUBER+ SUHNER	SUCOFLEX 104	03CH02-cable-04	1GHz~40GHz	17/Jul/2025	16/Jul/2026
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz~26.5GHz	01/Oct/2024	30/Sep/2025
Microwave Preamplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~40GHz	26/Apr/2025	25/Apr/2026
SENSE-EMI	Sporton	V5.11.9	N/A	N/A	N/A	N/A

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
Signal Analyzer	R&S	FSV40	101500	10Hz~40GHz	01/Nov/2024	31/Oct/2025
Amplifier	EMC	EMC9135	980232	9kHz~1GHz	09/Apr/2025	08/Apr/2026
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1531	1GHz ~ 18GHz	20/Dec/2024	19/Dec/2025
Microwave Preamplifier	Agilent	8449B	3008A02096	1GHz~26.5GHz	19/Jul/2024	18/Jul/2025
Bilog Antenna & 5dB Attenuator	TESEQ & MTJ	CBL6111D&MT J6102-05	35418 & 3	30MHz~1GHz	26/Aug/2024	25/Aug/2025
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	07/Oct/2024	06/Oct/2025
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	01248	18GHz~40GHz	04/Oct/2024	03/Oct/2025
Amplifier	EM	EM18G40GA	060874	18GHz~40GHz	18/Apr/2025	17/Apr/2026
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	20/Mar/2025	19/Mar/2026
EMI Test Receiver	R&S	ESR	102318	9kHz~3.6GHz	06/Dec/2024	05/Dec/2025
SENSE-15247_FS	Sporton	V5.11.23	NA	NA	NA	NA



Conducted Emissions at Powerline

Appendix A

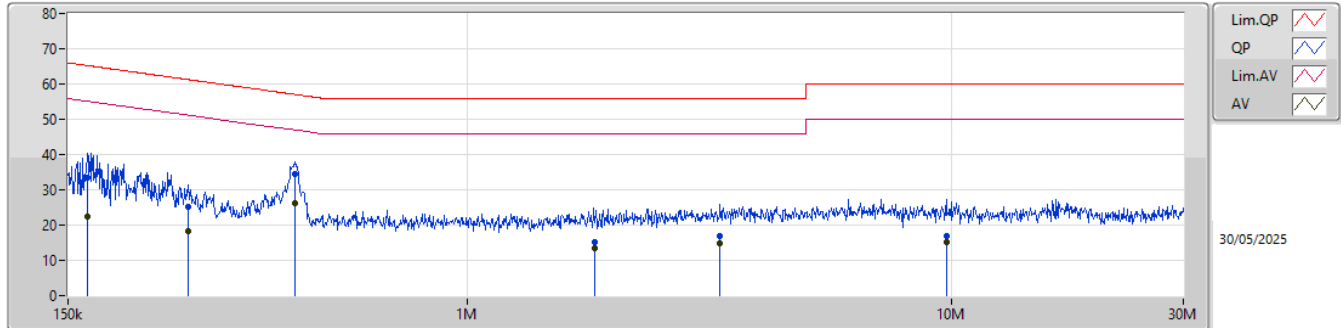
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	440.75k	26.32	47.05	-20.73	Line

Result

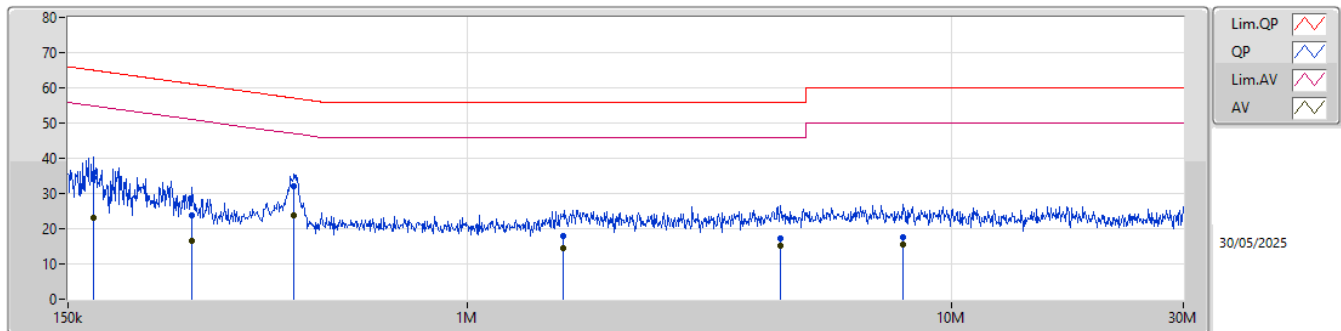
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	164.43k	33.55	65.24	-31.69	Line
Mode 1	Pass	AV	164.43k	22.55	55.24	-32.69	Line
Mode 1	Pass	QP	265.47k	25.21	61.26	-36.05	Line
Mode 1	Pass	AV	265.47k	18.16	51.26	-33.10	Line
Mode 1	Pass	QP	440.75k	34.35	57.05	-22.70	Line
Mode 1	Pass	AV	440.75k	26.32	47.05	-20.73	Line
Mode 1	Pass	QP	1.83M	15.12	56.00	-40.88	Line
Mode 1	Pass	AV	1.83M	13.46	46.00	-32.54	Line
Mode 1	Pass	QP	3.32M	16.77	56.00	-39.23	Line
Mode 1	Pass	AV	3.32M	14.66	46.00	-31.34	Line
Mode 1	Pass	QP	9.72M	16.77	60.00	-43.23	Line
Mode 1	Pass	AV	9.72M	15.20	50.00	-34.80	Line
Mode 1	Pass	QP	169.76k	34.60	64.97	-30.37	Neutral
Mode 1	Pass	AV	169.76k	22.99	54.97	-31.98	Neutral
Mode 1	Pass	QP	269.74k	23.63	61.12	-37.49	Neutral
Mode 1	Pass	AV	269.74k	16.62	51.12	-34.50	Neutral
Mode 1	Pass	QP	439k	32.05	57.09	-25.04	Neutral
Mode 1	Pass	AV	439k	23.86	47.09	-23.23	Neutral
Mode 1	Pass	QP	1.58M	17.87	56.00	-38.13	Neutral
Mode 1	Pass	AV	1.58M	14.52	46.00	-31.48	Neutral
Mode 1	Pass	QP	4.43M	17.22	56.00	-38.78	Neutral
Mode 1	Pass	AV	4.43M	15.15	46.00	-30.85	Neutral
Mode 1	Pass	QP	7.9M	17.47	60.00	-42.53	Neutral
Mode 1	Pass	AV	7.9M	15.46	50.00	-34.54	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	164.43k	33.55	65.24	-31.69	20.18	Line	-	13.37	10.20	0.01	9.97						
AV	164.43k	22.55	55.24	-32.69	20.18	Line	-	2.37	10.20	0.01	9.97						
QP	265.47k	25.21	61.26	-36.05	19.69	Line	-	5.52	9.70	0.02	9.97						
AV	265.47k	18.16	51.26	-33.10	19.69	Line	-	-1.53	9.70	0.02	9.97						
QP	440.75k	34.35	57.05	-22.70	20.04	Line	-	14.31	10.03	0.03	9.98						
AV	440.75k	26.32	47.05	-20.73	20.04	Line	-	6.28	10.03	0.03	9.98						
QP	1.83M	15.12	56.00	-40.88	19.73	Line	-	-4.61	9.73	0.03	9.97						
AV	1.83M	13.46	46.00	-32.54	19.73	Line	-	-6.27	9.73	0.03	9.97						
QP	3.32M	16.77	56.00	-39.23	19.71	Line	-	-2.94	9.69	0.04	9.98						
AV	3.32M	14.66	46.00	-31.34	19.71	Line	-	-5.05	9.69	0.04	9.98						
QP	9.72M	16.77	60.00	-43.23	19.90	Line	-	-3.13	9.69	0.23	9.98						
AV	9.72M	15.20	50.00	-34.80	19.90	Line	-	-4.70	9.69	0.23	9.98						

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	34.60	64.97	-30.37	20.29	Neutral	-	14.31	10.31	0.01	9.97						
AV	169.76k	22.99	54.97	-31.98	20.29	Neutral	-	2.70	10.31	0.01	9.97						
QP	269.74k	23.63	61.12	-37.49	19.72	Neutral	-	3.91	9.73	0.02	9.97						
AV	269.74k	16.62	51.12	-34.50	19.72	Neutral	-	-3.10	9.73	0.02	9.97						
QP	439k	32.05	57.09	-25.04	20.05	Neutral	-	12.00	10.04	0.03	9.98						
AV	439k	23.86	47.09	-23.23	20.05	Neutral	-	3.81	10.04	0.03	9.98						
QP	1.58M	17.87	56.00	-38.13	19.75	Neutral	-	-1.88	9.74	0.04	9.97						
AV	1.58M	14.52	46.00	-31.48	19.75	Neutral	-	-5.23	9.74	0.04	9.97						
QP	4.43M	17.22	56.00	-38.78	19.73	Neutral	-	-2.51	9.68	0.07	9.98						
AV	4.43M	15.15	46.00	-30.85	19.73	Neutral	-	-4.58	9.68	0.07	9.98						
QP	7.9M	17.47	60.00	-42.53	19.86	Neutral	-	-2.39	9.69	0.19	9.98						
AV	7.9M	15.46	50.00	-34.54	19.86	Neutral	-	-4.40	9.69	0.19	9.98						



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.15.4	1.825M	2.268M	2M27D1D	1.631M	2.218M

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)
802.15.4	-	-	-	-
2405MHz	Pass	500k	1.763M	2.224M
2440MHz	Pass	500k	1.631M	2.218M
2475MHz	Pass	500k	1.631M	2.268M
2480MHz	Pass	500k	1.825M	2.218M

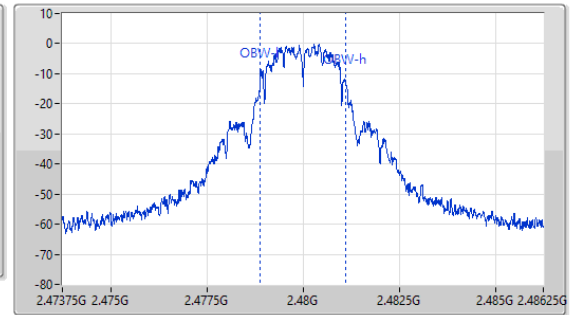
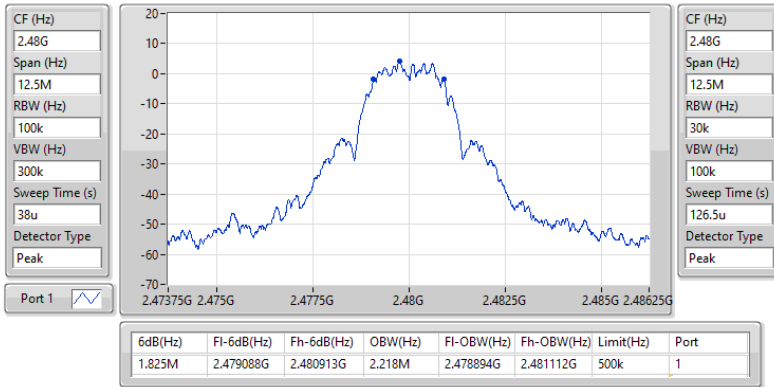
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_802.15.4

EBW-DTS

2480MHz

19/05/2025





Average Power-DTS

Appendix C

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.15.4	18.24	0.06668



Result

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
802.15.4	-	-	-	-
2405MHz	Pass	3.66	18.10	30.00
2440MHz	Pass	3.66	18.08	30.00
2475MHz	Pass	3.66	18.24	30.00
2480MHz	Pass	3.66	9.44	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	-
802.15.4	2.28

RBW = 3kHz;



Result

Mode	Result	DG (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.15.4	-	-	-	-
2405MHz	Pass	3.66	1.10	8.00
2440MHz	Pass	3.66	2.28	8.00
2475MHz	Pass	3.66	1.00	8.00
2480MHz	Pass	3.66	-7.54	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_802.15.4

PSD

2440MHz

19/05/2025

CF (Hz)
2.44G

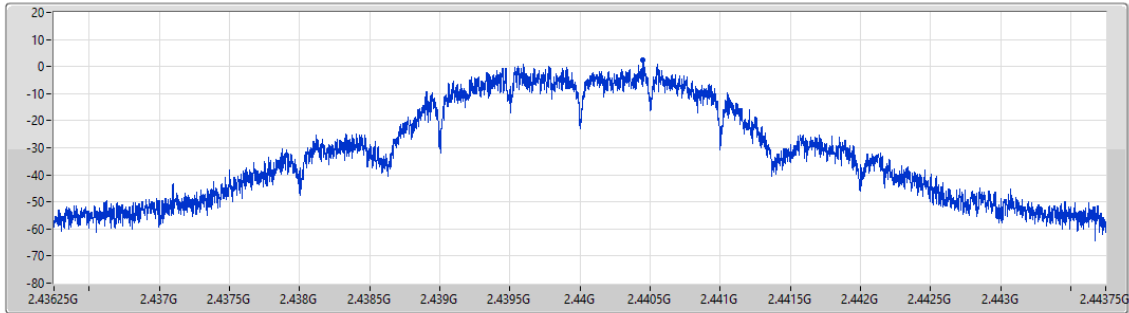
Span (Hz)
7.5M

RBW (Hz)
3k

VBW (Hz)
10k

Sweep Time (s)
1.264m

Detector Type
Peak



Port 1

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.28	2.28	2.28

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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.15.4	Pass	2.40451G	14.29	-15.71	491.78M	-55.43	2.4G	-38.19	2.4G	-39.02	2.50318G	-53.63	17.65489G	-41.37	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
802.15.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2405MHz	Pass	2.40451G	14.29	-15.71	491.78M	-55.43	2.4G	-38.19	2.4G	-39.02	2.50318G	-53.63	17.65489G	-41.37	1
2440MHz	Pass	2.40451G	14.29	-15.71	2.30363G	-55.65	2.39996G	-52.75	2.4G	-52.55	2.50278G	-52.88	17.62115G	-41.56	1
2480MHz	Pass	2.40451G	14.29	-15.71	2.12503G	-55.41	2.39076G	-54.68	2.4G	-57.24	2.5029G	-54.15	17.62396G	-40.20	1

2.4-2.4835GHz_802.15.4

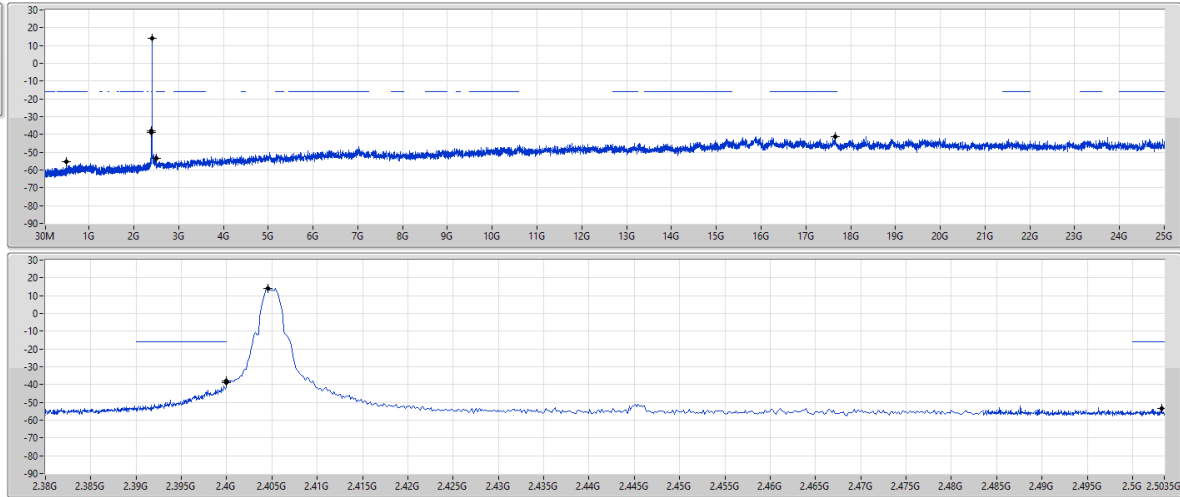
CSEndB-DTS

2405MHz

19/05/2025

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

Port 1



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
2.40451G	14.29	-15.71	491.78M	-55.43	2.4G	-38.19	2.4G	-39.02	2.50318G	-53.63	17.65489G	-41.37	1



Summary

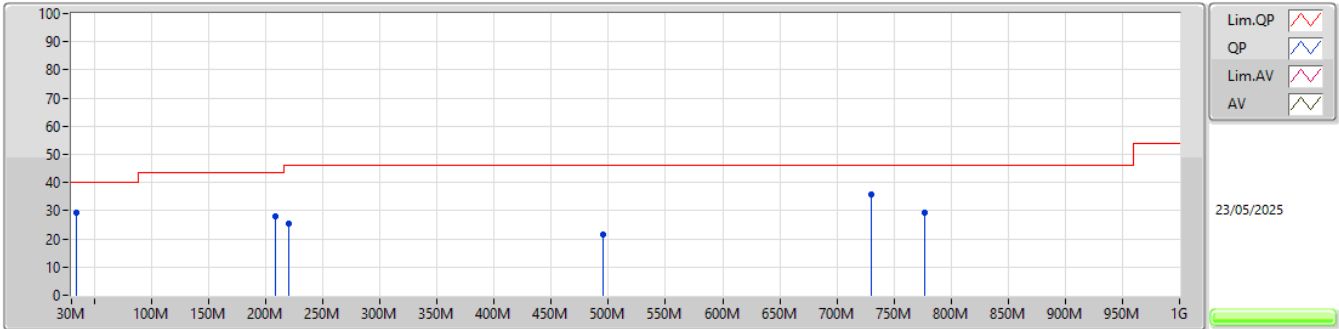
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
802.15.4	Pass	PK	730.34M	35.65	46.00	-10.35	3	Vertical	360	1.00

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
802.15.4	-	-	-	-	-	-	-	-	-	-
2440MHz_PoE	Pass	PK	33.88M	29.35	40.00	-10.65	3	Vertical	360	1.00
2440MHz_PoE	Pass	PK	208.48M	28.12	43.50	-15.38	3	Vertical	360	1.00
2440MHz_PoE	Pass	PK	220.12M	25.59	46.00	-20.41	3	Vertical	360	1.00
2440MHz_PoE	Pass	PK	495.6M	21.55	46.00	-24.45	3	Vertical	360	1.00
2440MHz_PoE	Pass	PK	730.34M	35.65	46.00	-10.35	3	Vertical	360	1.00
2440MHz_PoE	Pass	PK	776.9M	29.22	46.00	-16.78	3	Vertical	360	1.00
2440MHz_PoE	Pass	PK	31.94M	22.29	40.00	-17.71	3	Horizontal	0	1.00
2440MHz_PoE	Pass	PK	210.42M	29.08	43.50	-14.42	3	Horizontal	0	1.00
2440MHz_PoE	Pass	PK	220.12M	26.02	46.00	-19.98	3	Horizontal	0	1.00
2440MHz_PoE	Pass	PK	419.94M	22.42	46.00	-23.58	3	Horizontal	0	1.00
2440MHz_PoE	Pass	PK	747.8M	26.52	46.00	-19.48	3	Horizontal	0	1.00
2440MHz_PoE	Pass	PK	759.44M	29.89	46.00	-16.11	3	Horizontal	0	1.00

2.4-2.4835GHz_802.15.4

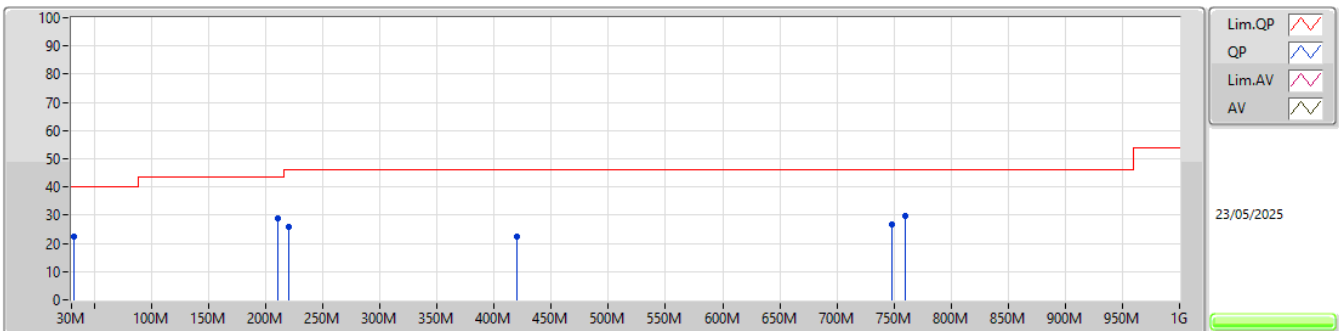
2440MHz_PoE



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	33.88M	29.35	40.00	-10.65	-14.94	3	Vertical	360	1.00	44.29	21.60	0.66	37.20
PK	208.48M	28.12	43.50	-15.38	-20.57	3	Vertical	360	1.00	48.69	13.98	1.69	36.24
PK	220.12M	25.59	46.00	-20.41	-20.26	3	Vertical	360	1.00	45.85	14.24	1.74	36.24
PK	495.6M	21.55	46.00	-24.45	-11.38	3	Vertical	360	1.00	32.93	22.77	2.76	36.91
PK	730.34M	35.65	46.00	-10.35	-7.43	3	Vertical	360	1.00	43.08	26.50	3.41	37.34
PK	776.9M	29.22	46.00	-16.78	-6.59	3	Vertical	360	1.00	35.81	27.28	3.56	37.43

2.4-2.4835GHz_802.15.4

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	31.94M	22.29	40.00	-17.71	-14.06	3	Horizontal	0	1.00	36.35	22.53	0.63	37.22
PK	210.42M	29.08	43.50	-14.42	-20.63	3	Horizontal	0	1.00	49.71	13.91	1.70	36.24
PK	220.12M	26.02	46.00	-19.98	-20.26	3	Horizontal	0	1.00	46.28	14.24	1.74	36.24
PK	419.94M	22.42	46.00	-23.58	-12.74	3	Horizontal	0	1.00	35.16	21.43	2.47	36.64
PK	747.8M	26.52	46.00	-19.48	-6.91	3	Horizontal	0	1.00	33.43	27.01	3.46	37.38
PK	759.44M	29.89	46.00	-16.11	-6.77	3	Horizontal	0	1.00	36.66	27.14	3.50	37.41



Summary

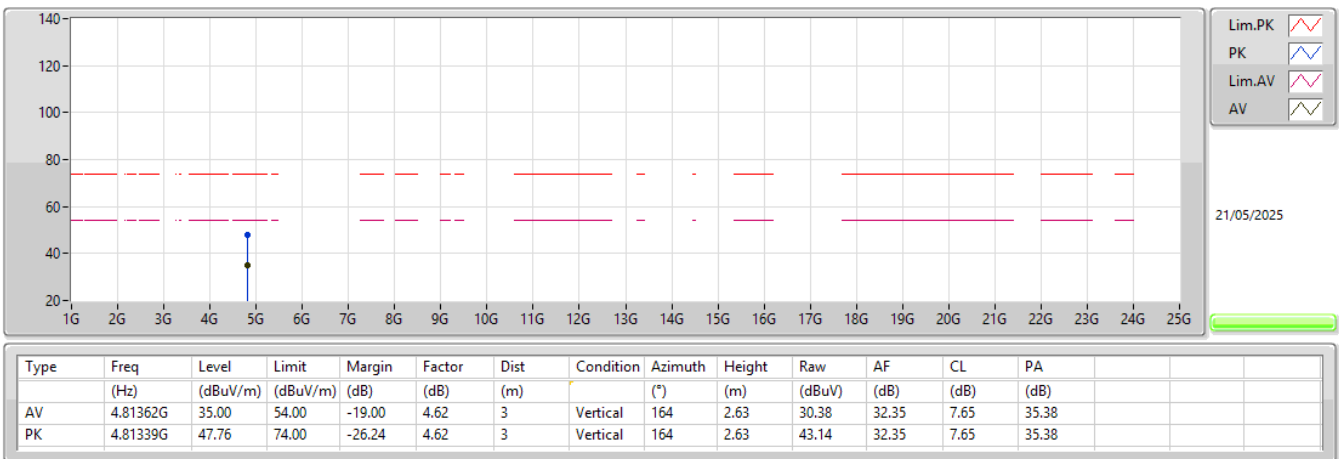
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
802.15.4	Pass	AV	4.81362G	35.00	54.00	-19.00	3	Vertical	164	2.63

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
802.15.4	-	-	-	-	-	-	-	-	-	-
2405MHz	Pass	AV	4.81362G	35.00	54.00	-19.00	3	Vertical	164	2.63
2405MHz	Pass	PK	4.81339G	47.76	74.00	-26.24	3	Vertical	164	2.63
2405MHz	Pass	AV	4.81362G	35.00	54.00	-19.00	3	Horizontal	135	1.50
2405MHz	Pass	PK	4.80723G	47.63	74.00	-26.37	3	Horizontal	135	1.50

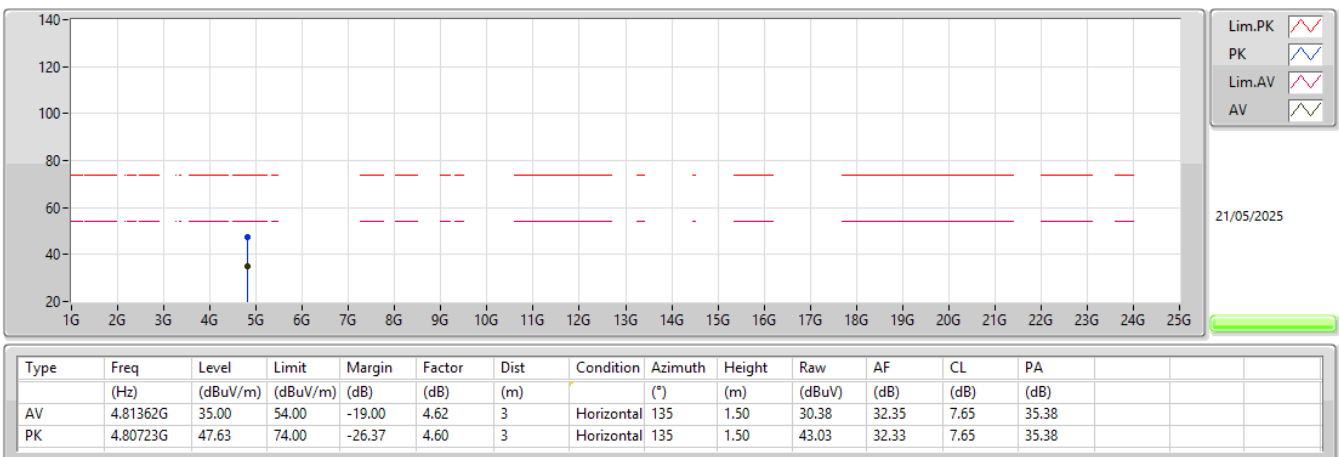
2.4-2.4835GHz_802.15.4

2405MHz_TX



2.4-2.4835GHz_802.15.4

2405MHz_TX





Summary

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
802.15.4	Pass	2.38G	2.5035G	AV	2.48362G	3.66	-46.59	-41.93	-41.20	-0.73

DG = Directional Gain ; PX=Port X; Psum=P1+P2+...PX

**Result**

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
802.15.4	-	-	-	-	-	-	-	-	-	-
2405MHz	Pass	2.38G	2.5035G	AV	2.38988G	3.66	-56.41	-52.75	-41.20	-11.55
2405MHz	Pass	2.38G	2.5035G	PK	2.38951G	3.66	-45.21	-41.55	-21.20	-20.35
2440MHz	Pass	2.38G	2.5035G	AV	2.48448G	3.66	-62.33	-58.67	-41.20	-17.47
2440MHz	Pass	2.38G	2.5035G	PK	2.4872G	3.66	-51.04	-47.38	-21.20	-26.18
2475MHz	Pass	2.38G	2.5035G	AV	2.48374G	3.66	-48.97	-45.31	-41.20	-4.11
2475MHz	Pass	2.38G	2.5035G	PK	2.48399G	3.66	-37.92	-34.26	-21.20	-13.06
2480MHz	Pass	2.38G	2.5035G	AV	2.48362G	3.66	-45.59	-41.93	-41.20	-0.73
2480MHz	Pass	2.38G	2.5035G	PK	2.48362G	3.66	-33.52	-29.86	-21.20	-8.66

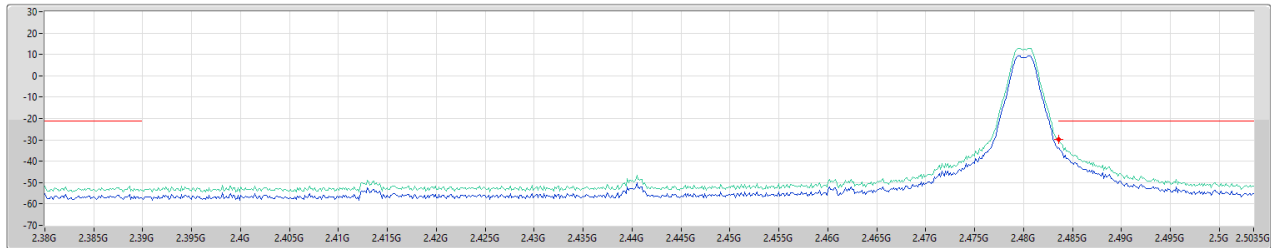
DG = Directional Gain ; PX=Port X; Psum=P1+P2+...PX

2.4-2.4835GHz_802.15.4

CSE Bandedge-DTS [PK]

2480MHz

19/05/2025



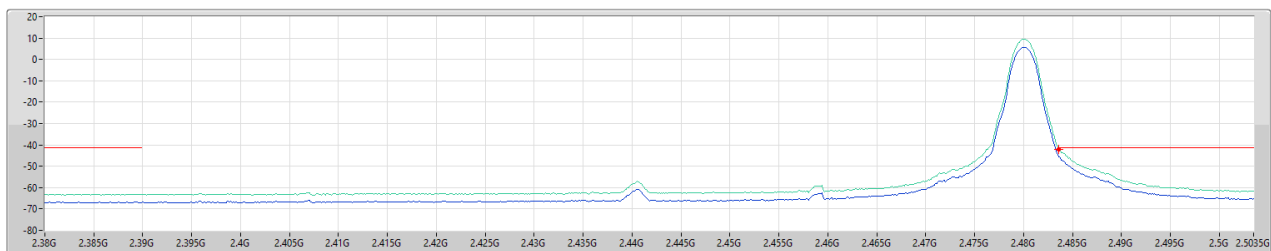
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Psum(dBm)	P1(dBm)
2.38G	2.5035G	1M	PK	2.48362G	-29.86	-21.20	-8.66	3.66	-33.52	-33.52

2.4-2.4835GHz_802.15.4

CSE Bandedge-DTS [AV]

2480MHz

19/05/2025



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Psum(dBm)	P1(dBm)
2.38G	2.5035G	1M	AV	2.48362G	-41.93	-41.20	-0.73	3.66	-45.59	-45.59



Summary

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	EIRP (dBm)	Limit (dBm)	Margin (dB)
2.4-2.4835GHz	-	-	-	-	-	-	-	-
802.15.4	Pass	1G	25G	AV	2.365G	-50.85	-41.20	-9.65

DG = Directional Gain ; PX=Port X; Psum=P1+P2+...PX

**Result**

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	EIRP (dBm)	Limit (dBm)	Margin (dB)
802.15.4	-	-	-	-	-	-	-	-
2405MHz	Pass	1G	25G	AV	2.365G	-50.85	-41.20	-9.65
2405MHz	Pass	1G	25G	AV	4.804G	-67.91	-41.20	-26.71
2405MHz	Pass	1G	25G	PK	2.365G	-44.36	-21.20	-23.16
2405MHz	Pass	1G	25G	PK	4.813G	-61.84	-21.20	-40.64
2440MHz	Pass	1G	25G	AV	4.885G	-67.87	-41.20	-26.67
2440MHz	Pass	1G	25G	AV	15.844G	-56.52	-41.20	-15.32
2440MHz	Pass	1G	25G	PK	4.885G	-60.69	-21.20	-39.49
2440MHz	Pass	1G	25G	PK	15.595G	-49.57	-21.20	-28.37
2475MHz	Pass	1G	25G	AV	2.515G	-54.04	-41.20	-12.84
2475MHz	Pass	1G	25G	AV	4.951G	-66.63	-41.20	-25.43
2475MHz	Pass	1G	25G	PK	2.515G	-47.82	-21.20	-26.62
2475MHz	Pass	1G	25G	PK	4.945G	-60.19	-21.20	-38.99
2480MHz	Pass	1G	25G	AV	4.96G	-67.57	-41.20	-26.37
2480MHz	Pass	1G	25G	AV	15.895G	-56.85	-41.20	-15.65
2480MHz	Pass	1G	25G	PK	4.96G	-60.74	-21.20	-39.54
2480MHz	Pass	1G	25G	PK	15.934G	-49.29	-21.20	-28.09

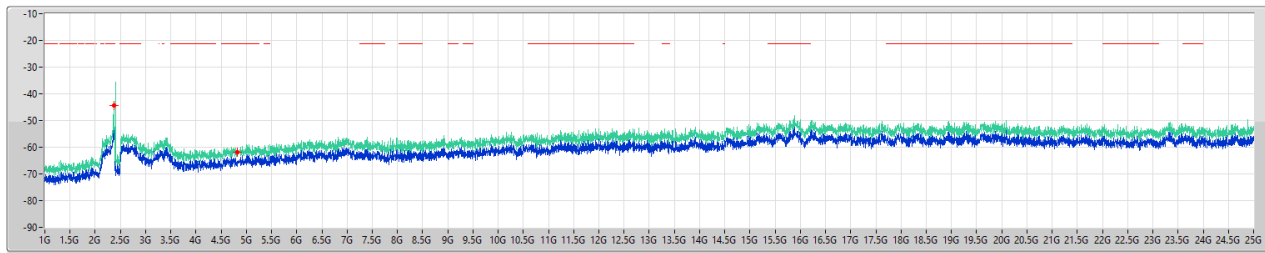
DG = Directional Gain ; PX=Port X; Psum=P1+P2+...PX

2.4-2.4835GHz_802.15.4

CSE-DTS [PK]

2405MHz

19/05/2025



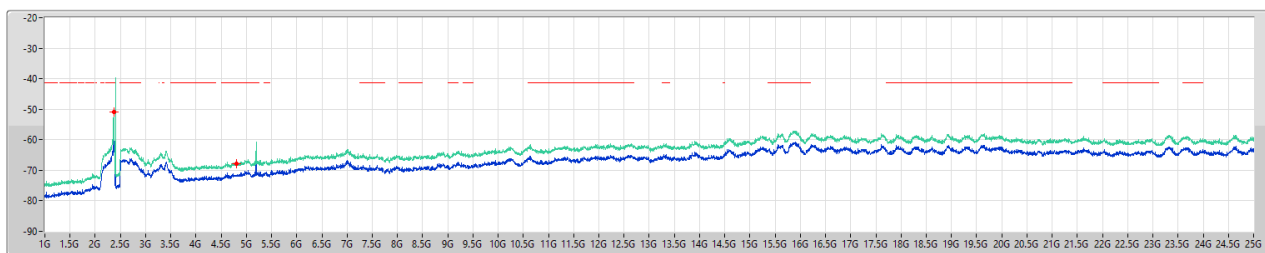
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Psum(dBm)	P1(dBm)
1G	25G	1M	PK	2.365G	-44.36	-21.20	-23.16	3.66	-48.02	-48.02
1G	25G	1M	PK	4.813G	-61.84	-21.20	-40.64	3.66	-65.50	-65.50

2.4-2.4835GHz_802.15.4

CSE-DTS [AV]

2405MHz

19/05/2025



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Psum(dBm)	P1(dBm)
1G	25G	1M	AV	2.365G	-50.85	-41.20	-9.65	3.66	-54.51	-54.51
1G	25G	1M	AV	4.804G	-67.91	-41.20	-26.71	3.66	-71.57	-71.57



Summary

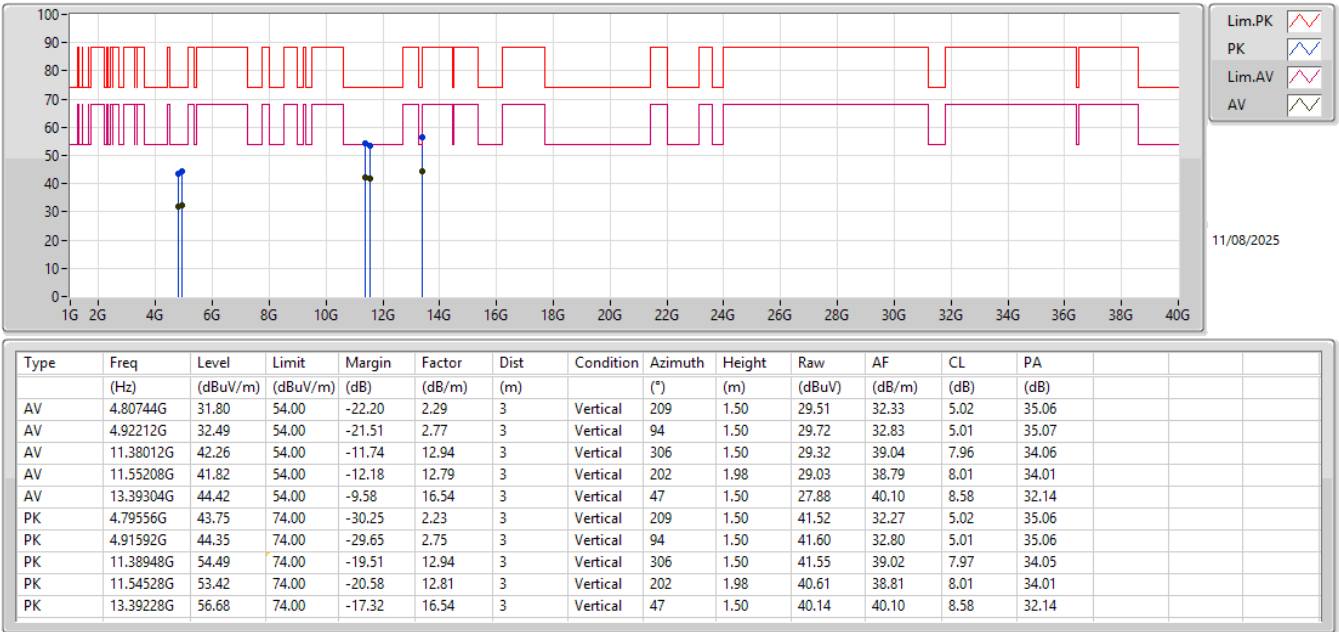
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	13.39304G	44.46	54.00	-9.54	Horizontal
Mode 2	Pass	AV	13.36644G	44.57	54.00	-9.43	Horizontal
Mode 3	Pass	AV	13.38792G	44.48	54.00	-9.52	Horizontal
Mode 4	Pass	AV	13.373G	44.54	54.00	-9.46	Horizontal

Result

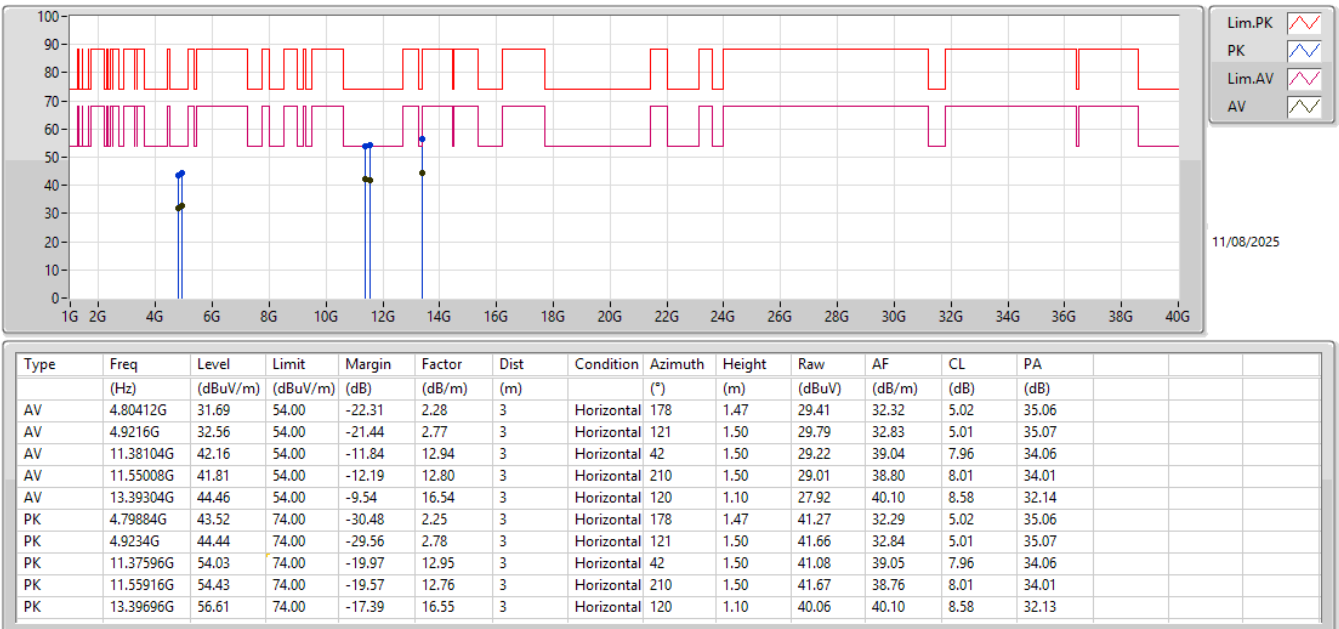
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
Mode 1	Pass	AV	4.80744G	31.80	54.00	-22.20	3	Vertical	209	1.50
Mode 1	Pass	AV	4.92212G	32.49	54.00	-21.51	3	Vertical	94	1.50
Mode 1	Pass	AV	11.38012G	42.26	54.00	-11.74	3	Vertical	306	1.50
Mode 1	Pass	AV	11.55208G	41.82	54.00	-12.18	3	Vertical	202	1.98
Mode 1	Pass	AV	13.39304G	44.42	54.00	-9.58	3	Vertical	47	1.50
Mode 1	Pass	PK	4.79556G	43.75	74.00	-30.25	3	Vertical	209	1.50
Mode 1	Pass	PK	4.91592G	44.35	74.00	-29.65	3	Vertical	94	1.50
Mode 1	Pass	PK	11.38948G	54.49	74.00	-19.51	3	Vertical	306	1.50
Mode 1	Pass	PK	11.54528G	53.42	74.00	-20.58	3	Vertical	202	1.98
Mode 1	Pass	PK	13.39228G	56.68	74.00	-17.32	3	Vertical	47	1.50
Mode 1	Pass	AV	4.80412G	31.69	54.00	-22.31	3	Horizontal	178	1.47
Mode 1	Pass	AV	4.9216G	32.56	54.00	-21.44	3	Horizontal	121	1.50
Mode 1	Pass	AV	11.38104G	42.16	54.00	-11.84	3	Horizontal	42	1.50
Mode 1	Pass	AV	11.55008G	41.81	54.00	-12.19	3	Horizontal	210	1.50
Mode 1	Pass	AV	13.39304G	44.46	54.00	-9.54	3	Horizontal	120	1.10
Mode 1	Pass	PK	4.79884G	43.52	74.00	-30.48	3	Horizontal	178	1.47
Mode 1	Pass	PK	4.9234G	44.44	74.00	-29.56	3	Horizontal	121	1.50
Mode 1	Pass	PK	11.37596G	54.03	74.00	-19.97	3	Horizontal	42	1.50
Mode 1	Pass	PK	11.55916G	54.43	74.00	-19.57	3	Horizontal	210	1.50
Mode 1	Pass	PK	13.39696G	56.61	74.00	-17.39	3	Horizontal	120	1.10
Mode 2	Pass	AV	4.80564G	31.70	54.00	-22.30	3	Vertical	127	1.50
Mode 2	Pass	AV	4.92016G	32.42	54.00	-21.58	3	Vertical	70	1.78
Mode 2	Pass	AV	11.5516G	41.92	54.00	-12.08	3	Vertical	17	1.50
Mode 2	Pass	AV	13.37092G	44.53	54.00	-9.47	3	Vertical	186	1.55
Mode 2	Pass	AV	13.39332G	44.37	54.00	-9.63	3	Vertical	94	1.50
Mode 2	Pass	PK	4.80444G	44.04	74.00	-29.96	3	Vertical	127	1.50
Mode 2	Pass	PK	4.92632G	44.43	74.00	-29.57	3	Vertical	70	1.78
Mode 2	Pass	PK	11.5472G	53.67	74.00	-20.33	3	Vertical	17	1.50
Mode 2	Pass	PK	13.36092G	56.49	74.00	-17.51	3	Vertical	186	1.55
Mode 2	Pass	PK	13.39692G	56.66	74.00	-17.34	3	Vertical	94	1.50
Mode 2	Pass	AV	4.7944G	31.82	54.00	-22.18	3	Horizontal	138	1.50
Mode 2	Pass	AV	4.91488G	32.49	54.00	-21.51	3	Horizontal	34	1.50
Mode 2	Pass	AV	11.55496G	41.89	54.00	-12.11	3	Horizontal	138	1.50
Mode 2	Pass	AV	13.36644G	44.57	54.00	-9.43	3	Horizontal	41	1.50
Mode 2	Pass	AV	13.39108G	44.30	54.00	-9.70	3	Horizontal	16	1.50
Mode 2	Pass	PK	4.8064G	44.01	74.00	-29.99	3	Horizontal	138	1.50
Mode 2	Pass	PK	4.9212G	44.43	74.00	-29.57	3	Horizontal	34	1.50
Mode 2	Pass	PK	11.5524G	54.30	74.00	-19.70	3	Horizontal	138	1.50
Mode 2	Pass	PK	13.37752G	56.48	74.00	-17.52	3	Horizontal	41	1.50
Mode 2	Pass	PK	13.39832G	56.81	74.00	-17.19	3	Horizontal	16	1.50
Mode 3	Pass	AV	4.81968G	31.87	54.00	-22.13	3	Vertical	21	1.50
Mode 3	Pass	AV	4.92108G	32.56	54.00	-21.44	3	Vertical	295	1.50
Mode 3	Pass	AV	11.381G	42.31	54.00	-11.69	3	Vertical	302	1.50
Mode 3	Pass	AV	11.55408G	41.88	54.00	-12.12	3	Vertical	25	1.50
Mode 3	Pass	AV	13.39472G	44.42	54.00	-9.58	3	Vertical	5	1.48
Mode 3	Pass	PK	4.8134G	44.48	74.00	-29.52	3	Vertical	21	1.50
Mode 3	Pass	PK	4.92048G	44.79	74.00	-29.21	3	Vertical	295	1.50
Mode 3	Pass	PK	11.38468G	54.56	74.00	-19.44	3	Vertical	302	1.50
Mode 3	Pass	PK	11.55708G	53.74	74.00	-20.26	3	Vertical	25	1.50
Mode 3	Pass	PK	13.39972G	56.17	74.00	-17.83	3	Vertical	5	1.48

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
Mode 3	Pass	AV	4.80808G	31.73	54.00	-22.27	3	Horizontal	358	1.50
Mode 3	Pass	AV	4.91836G	32.48	54.00	-21.52	3	Horizontal	221	1.64
Mode 3	Pass	AV	11.37812G	42.19	54.00	-11.81	3	Horizontal	132	1.50
Mode 3	Pass	AV	11.54908G	41.93	54.00	-12.07	3	Horizontal	60	1.02
Mode 3	Pass	AV	13.38792G	44.48	54.00	-9.52	3	Horizontal	314	1.50
Mode 3	Pass	PK	4.81568G	44.44	74.00	-29.56	3	Horizontal	358	1.50
Mode 3	Pass	PK	4.92016G	44.72	74.00	-29.28	3	Horizontal	221	1.64
Mode 3	Pass	PK	11.3814G	53.60	74.00	-20.40	3	Horizontal	132	1.50
Mode 3	Pass	PK	11.54628G	54.05	74.00	-19.95	3	Horizontal	60	1.02
Mode 3	Pass	PK	13.39892G	56.18	74.00	-17.82	3	Horizontal	314	1.50
Mode 4	Pass	AV	4.80164G	31.83	54.00	-22.17	3	Vertical	351	2.33
Mode 4	Pass	AV	4.92376G	32.51	54.00	-21.49	3	Vertical	347	1.50
Mode 4	Pass	AV	11.55248G	41.90	54.00	-12.10	3	Vertical	2	1.56
Mode 4	Pass	AV	13.37248G	44.45	54.00	-9.55	3	Vertical	184	1.50
Mode 4	Pass	AV	13.3938G	44.50	54.00	-9.50	3	Vertical	201	1.62
Mode 4	Pass	PK	4.8084G	43.79	74.00	-30.21	3	Vertical	351	2.33
Mode 4	Pass	PK	4.92836G	44.16	74.00	-29.84	3	Vertical	347	1.50
Mode 4	Pass	PK	11.55392G	54.22	74.00	-19.78	3	Vertical	2	1.56
Mode 4	Pass	PK	13.37012G	56.34	74.00	-17.66	3	Vertical	184	1.50
Mode 4	Pass	PK	13.38432G	55.87	74.00	-18.13	3	Vertical	201	1.62
Mode 4	Pass	AV	4.8196G	32.01	54.00	-21.99	3	Horizontal	76	1.15
Mode 4	Pass	AV	4.91452G	32.36	54.00	-21.64	3	Horizontal	111	1.66
Mode 4	Pass	AV	11.54664G	41.77	54.00	-12.23	3	Horizontal	125	2.91
Mode 4	Pass	AV	13.373G	44.54	54.00	-9.46	3	Horizontal	138	1.30
Mode 4	Pass	AV	13.38768G	44.35	54.00	-9.65	3	Horizontal	78	2.05
Mode 4	Pass	PK	4.81144G	43.29	74.00	-30.71	3	Horizontal	76	1.15
Mode 4	Pass	PK	4.92816G	44.08	74.00	-29.92	3	Horizontal	111	1.66
Mode 4	Pass	PK	11.5402G	53.50	74.00	-20.50	3	Horizontal	125	2.91
Mode 4	Pass	PK	13.37556G	56.42	74.00	-17.58	3	Horizontal	138	1.30
Mode 4	Pass	PK	13.38196G	56.17	74.00	-17.83	3	Horizontal	78	2.05

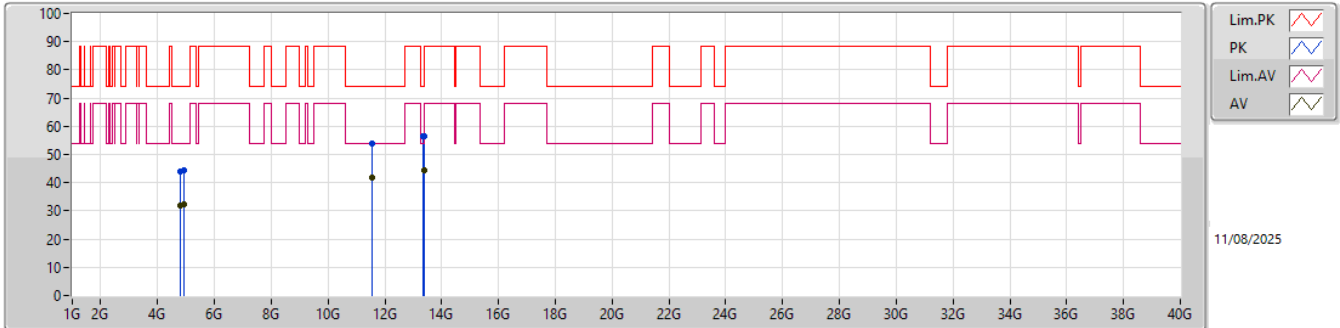
Radiated Emissions above 1GHz_Mode 1



Radiated Emissions above 1GHz_Mode 1

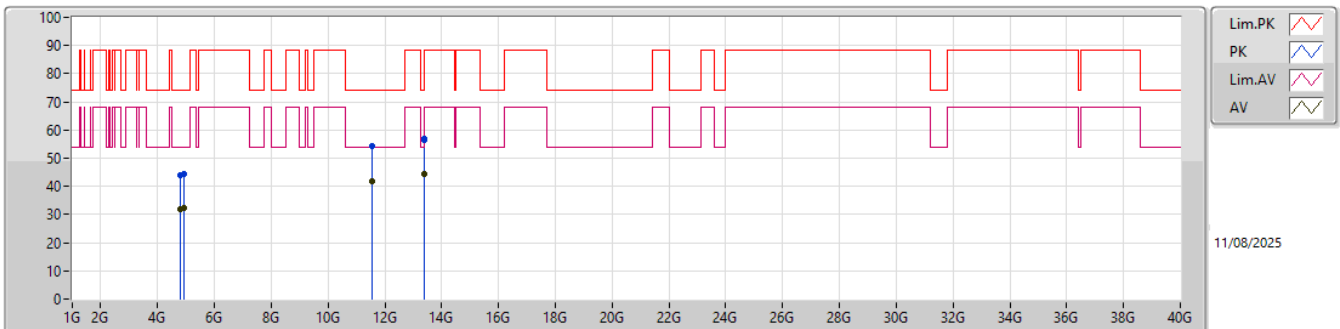


Radiated Emissions above 1GHz_Mode 2



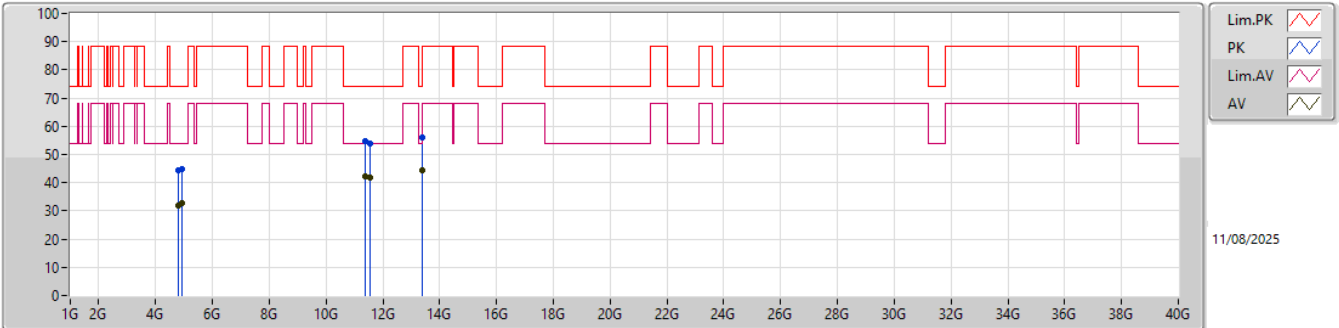
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)
AV	4.80564G	31.70	54.00	-22.30	2.28	3	Vertical	127	1.50	29.42	32.32	5.02	35.06
AV	4.92016G	32.42	54.00	-21.58	2.76	3	Vertical	70	1.78	29.66	32.82	5.01	35.07
AV	11.5516G	41.92	54.00	-12.08	12.79	3	Vertical	17	1.50	29.13	38.79	8.01	34.01
AV	13.37092G	44.53	54.00	-9.47	16.50	3	Vertical	186	1.55	28.03	40.10	8.57	32.17
AV	13.39332G	44.37	54.00	-9.63	16.54	3	Vertical	94	1.50	27.83	40.10	8.58	32.14
PK	4.80444G	44.04	74.00	-29.96	2.28	3	Vertical	127	1.50	41.76	32.32	5.02	35.06
PK	4.92632G	44.43	74.00	-29.57	2.80	3	Vertical	70	1.78	41.63	32.86	5.01	35.07
PK	11.5472G	53.67	74.00	-20.33	12.81	3	Vertical	17	1.50	40.86	38.81	8.01	34.01
PK	13.36092G	56.49	74.00	-17.51	16.49	3	Vertical	186	1.55	40.00	40.10	8.57	32.18
PK	13.39692G	56.66	74.00	-17.34	16.55	3	Vertical	94	1.50	40.11	40.10	8.58	32.13

Radiated Emissions above 1GHz_Mode 2



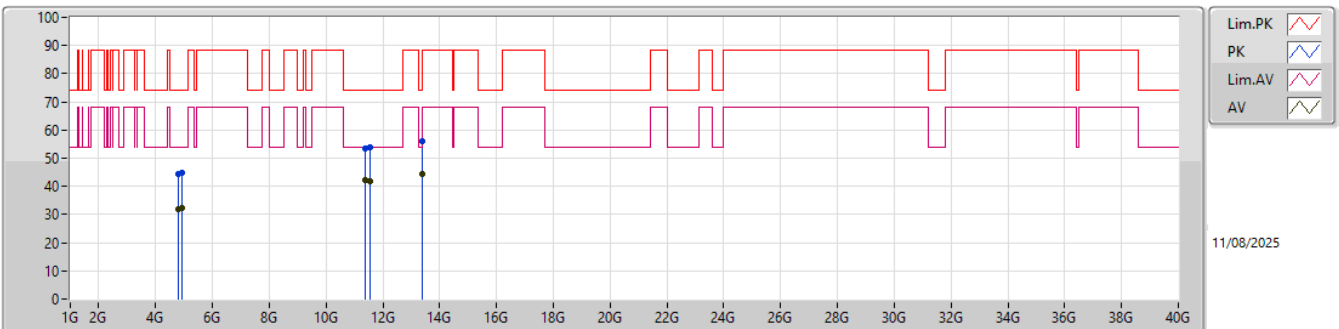
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)
AV	4.7944G	31.82	54.00	-22.18	2.23	3	Horizontal	138	1.50	29.59	32.27	5.02	35.06
AV	4.91488G	32.49	54.00	-21.51	2.74	3	Horizontal	34	1.50	29.75	32.79	5.01	35.06
AV	11.55496G	41.89	54.00	-12.11	12.78	3	Horizontal	138	1.50	29.11	38.78	8.01	34.01
AV	13.36644G	44.57	54.00	-9.43	16.50	3	Horizontal	41	1.50	28.07	40.10	8.57	32.17
AV	13.39108G	44.30	54.00	-9.70	16.54	3	Horizontal	16	1.50	27.76	40.10	8.58	32.14
PK	4.8064G	44.01	74.00	-29.99	2.29	3	Horizontal	138	1.50	41.72	32.33	5.02	35.06
PK	4.9212G	44.43	74.00	-29.57	2.77	3	Horizontal	34	1.50	41.66	32.83	5.01	35.07
PK	11.5524G	54.30	74.00	-19.70	12.79	3	Horizontal	138	1.50	41.51	38.79	8.01	34.01
PK	13.37752G	56.48	74.00	-17.52	16.51	3	Horizontal	41	1.50	39.97	40.10	8.57	32.16
PK	13.39832G	56.81	74.00	-17.19	16.55	3	Horizontal	16	1.50	40.26	40.10	8.58	32.13

Radiated Emissions above 1GHz_Mode 3



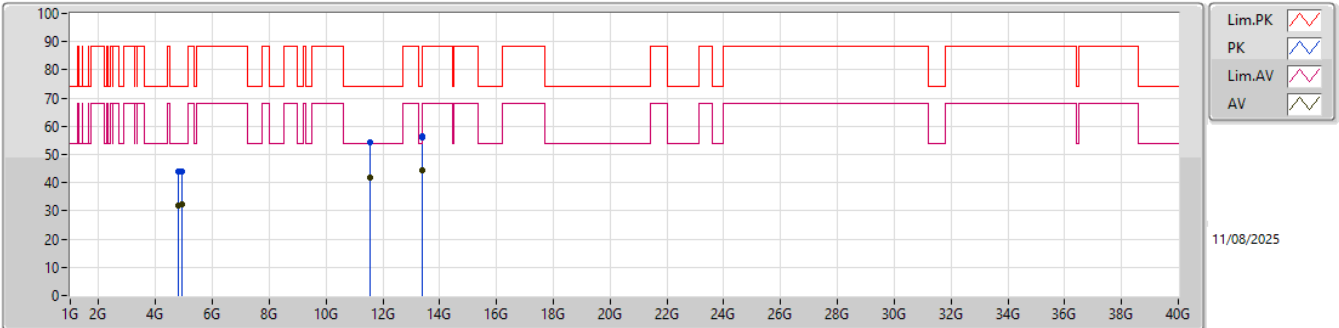
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)
AV	4.81968G	31.87	54.00	-22.13	2.34	3	Vertical	21	1.50	29.53	32.38	5.02	35.06
AV	4.92108G	32.56	54.00	-21.44	2.77	3	Vertical	295	1.50	29.79	32.83	5.01	35.07
AV	11.381G	42.31	54.00	-11.69	12.94	3	Vertical	302	1.50	29.37	39.04	7.96	34.06
AV	11.55408G	41.88	54.00	-12.12	12.78	3	Vertical	25	1.50	29.10	38.78	8.01	34.01
AV	13.39472G	44.42	54.00	-9.58	16.55	3	Vertical	5	1.48	27.87	40.10	8.58	32.13
PK	4.8134G	44.48	74.00	-29.52	2.31	3	Vertical	21	1.50	42.17	32.35	5.02	35.06
PK	4.92048G	44.79	74.00	-29.21	2.76	3	Vertical	295	1.50	42.03	32.82	5.01	35.07
PK	11.38468G	54.56	74.00	-19.44	12.94	3	Vertical	302	1.50	41.62	39.03	7.96	34.05
PK	11.55708G	53.74	74.00	-20.26	12.77	3	Vertical	25	1.50	40.97	38.77	8.01	34.01
PK	13.39972G	56.17	74.00	-17.83	16.55	3	Vertical	5	1.48	39.62	40.10	8.58	32.13

Radiated Emissions above 1GHz_Mode 3



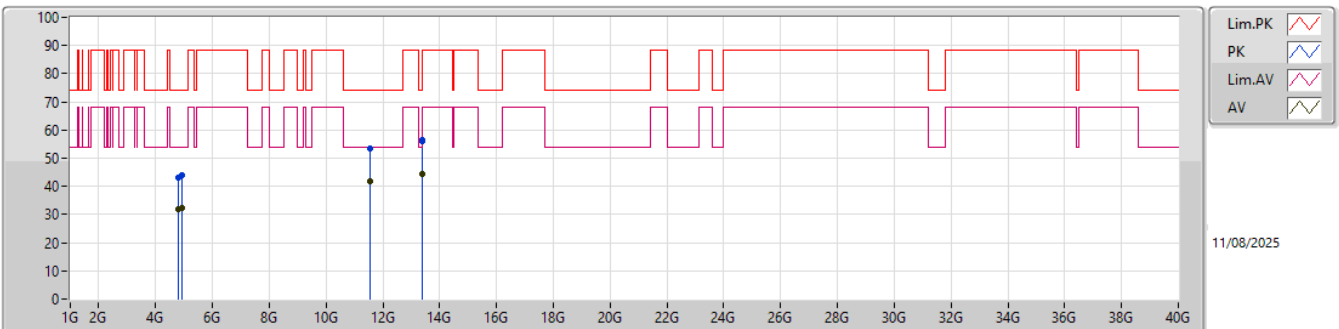
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)
AV	4.80808G	31.73	54.00	-22.27	2.29	3	Horizontal	358	1.50	29.44	32.33	5.02	35.06
AV	4.91836G	32.48	54.00	-21.52	2.75	3	Horizontal	221	1.64	29.73	32.81	5.01	35.07
AV	11.37812G	42.19	54.00	-11.81	12.94	3	Horizontal	132	1.50	29.25	39.04	7.96	34.06
AV	11.54908G	41.93	54.00	-12.07	12.80	3	Horizontal	60	1.02	29.13	38.80	8.01	34.01
AV	13.38792G	44.48	54.00	-9.52	16.53	3	Horizontal	314	1.50	27.95	40.10	8.57	32.14
PK	4.81568G	44.44	74.00	-29.56	2.32	3	Horizontal	358	1.50	42.12	32.36	5.02	35.06
PK	4.92016G	44.72	74.00	-29.28	2.76	3	Horizontal	221	1.64	41.96	32.82	5.01	35.07
PK	11.3814G	53.60	74.00	-20.40	12.94	3	Horizontal	132	1.50	40.66	39.04	7.96	34.06
PK	11.54628G	54.05	74.00	-19.95	12.81	3	Horizontal	60	1.02	41.24	38.81	8.01	34.01
PK	13.39892G	56.18	74.00	-17.82	16.55	3	Horizontal	314	1.50	39.63	40.10	8.58	32.13

Radiated Emissions above 1GHz_Mode 4



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)
AV	4.80164G	31.83	54.00	-22.17	2.27	3	Vertical	351	2.33	29.56	32.31	5.02	35.06
AV	4.92376G	32.51	54.00	-21.49	2.78	3	Vertical	347	1.50	29.73	32.84	5.01	35.07
AV	11.55248G	41.90	54.00	-12.10	12.79	3	Vertical	2	1.56	29.11	38.79	8.01	34.01
AV	13.37248G	44.45	54.00	-9.55	16.50	3	Vertical	184	1.50	27.95	40.10	8.57	32.17
AV	13.3938G	44.50	54.00	-9.50	16.54	3	Vertical	201	1.62	27.96	40.10	8.58	32.14
PK	4.8084G	43.79	74.00	-30.21	2.29	3	Vertical	351	2.33	41.50	32.33	5.02	35.06
PK	4.92836G	44.16	74.00	-29.84	2.81	3	Vertical	347	1.50	41.35	32.87	5.01	35.07
PK	11.55392G	54.22	74.00	-19.78	12.78	3	Vertical	2	1.56	41.44	38.78	8.01	34.01
PK	13.37012G	56.34	74.00	-17.66	16.50	3	Vertical	184	1.50	39.84	40.10	8.57	32.17
PK	13.38432G	55.87	74.00	-18.13	16.52	3	Vertical	201	1.62	39.35	40.10	8.57	32.15

Radiated Emissions above 1GHz_Mode 4



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)
AV	4.8196G	32.01	54.00	-21.99	2.34	3	Horizontal	76	1.15	29.67	32.38	5.02	35.06
AV	4.91452G	32.36	54.00	-21.64	2.74	3	Horizontal	111	1.66	29.62	32.79	5.01	35.06
AV	11.54664G	41.77	54.00	-12.23	12.81	3	Horizontal	125	2.91	28.96	38.81	8.01	34.01
AV	13.373G	44.54	54.00	-9.46	16.50	3	Horizontal	138	1.30	28.04	40.10	8.57	32.17
AV	13.38768G	44.35	54.00	-9.65	16.53	3	Horizontal	78	2.05	27.82	40.10	8.57	32.14
PK	4.81144G	43.29	74.00	-30.71	2.31	3	Horizontal	76	1.15	40.98	32.35	5.02	35.06
PK	4.92816G	44.08	74.00	-29.92	2.81	3	Horizontal	111	1.66	41.27	32.87	5.01	35.07
PK	11.5402G	53.50	74.00	-20.50	12.82	3	Horizontal	125	2.91	40.68	38.82	8.01	34.01
PK	13.37556G	56.42	74.00	-17.58	16.51	3	Horizontal	138	1.30	39.91	40.10	8.57	32.16
PK	13.38196G	56.17	74.00	-17.83	16.52	3	Horizontal	78	2.05	39.65	40.10	8.57	32.15