

FCC Radio Test Report

FCC ID : TVE-3518T01236
Equipment : Secured Wireless Access Point
Brand Name : FORTINET
Model Name : FortiAP 231Gxxxxxx, FORTIAP-231Gxxxxxx, FAP-231Gxxxxxx, FortiAP 233Gxxxxxx, FORTIAP-233Gxxxxxx, FAP-233Gxxxxxx, (where “x” can be used as “A-Z”, or “0-9”, or “-”, or blank for software changes or marketing purposes only)
Applicant : Fortinet, Inc.
899 Kifer Road, Sunnyvale, CA 94086, USA
Manufacturer : Fortinet, Inc.
899 Kifer Road, Sunnyvale, CA 94086, USA
Standard : 47 CFR FCC Part 15.247

The product was received on Jun. 29, 2022, and testing was started from Aug. 03, 2022 and completed on Nov. 15, 2022. We, SPORTON INTERNATIONAL INC. Hsinhua Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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



Approved by: Jackson Tsai

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

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



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PHOTOGRAPHS OF EUT V01



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:
Note

Reviewed by: Ben Tseng

Report Producer: Jenny Yang

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	Zigbee	5	1TX

Note:.

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

1.1.2 Antenna Information

FAP-231G

Ant.	Brand	Model Name	Antenna Type	Connector	Support
1	SENAO	5718A0675300	PIFA	I-Pex	2.4G+5G
2	SENAO	5718A0677300	PIFA	I-Pex	2.4G+5G
3	SENAO	5718A0678300	PIFA	I-Pex	2.4G+5G+6G
4	SENAO	5718A0676300	PIFA	I-Pex	2.4G+5G+6G
5	SENAO	5718A0679300	PIFA	I-Pex	BT & Zigbee

Ant.	Port	Gain (dBi)				Remark
		2.4G	5G	6G	BT & Zigbee	
1	1	4.5	5.3	-	-	Radio 1 2.4G 2*2 & Radio2 5G 2*2 Radio 3 2.4G/5G/6G 2*2 Radio 2 5G Low Band+ Radio 3 5G High Band 2*2
2	2	4.3	5.3	-	-	
3	1	4.3	5.2	5.3	-	
4	2	4.4	5.3	5.2	-	
5	1	-	-	-	5.1	

FAP-233G

Ant.	Brand	Model Name	Antenna Type	Connector	Support
1	AWAN	7102A0560000	Dipole	Reverse SMA	2.4G+5G
2	AWAN	7102A0560000	Dipole	Reverse SMA	2.4G+5G
3	AWAN	7102A0561000	Dipole	I-Pex	2.4G+5G+6G
4	AWAN	7102A0562000	Dipole	I-Pex	2.4G+5G+6G
5	SENAO	5718A0679300	PIFA	I-Pex	BT & Zigbee

Ant.	Port	Gain (dBi)				Remark
		2.4G	5G	6G	BT & Zigbee	
1	1	4.94	4.58	-	-	Radio 1 2.4G 2*2 & Radio2 5G 2*2 Radio 3 2.4G/5G/6G 2*2 Radio 2 5G Low Band+ Radio 3 5G High Band 2*2
2	2	5.24	4.98	-	-	
3	1	4.53	4.62	4.77	-	
4	2	4.27	4.23	4.37	-	
5	1	-	-	-	5.1	-

Note 1: The EUT has five antennas.

For 2.4GHz function:

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

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

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

For BT function:

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

Only Ant.5 (port 1) can be used as transmitting/receiving.

For 5GHz function:

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

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

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

For 6GHz function:

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

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



1.1.3 EUT Information

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

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
Zigbee	1	0	n/a (DC>=0.98)	n/a (DC>=0.98)

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

1.1.5 Table for Multiple Listing

The model names in the following table are all refer to the identical product.

Model Name	Description
FortiAP 231Gxxxxxx, FORTIAP-231Gxxxxxx, FAP-231Gxxxxxx, (where “x” can be used as “A-Z”, or “0-9”, or “-”, or blank for software changes or marketing purposes only)	FAP-231G indicates that it comes with internal antennas and FAP-233G indicates that the access point comes with external antennas. Series models serve different marketing purpose.
FortiAP 233Gxxxxxx, FORTIAP-233Gxxxxxx, FAP-233Gxxxxxx, (where “x” can be used as “A-Z”, or “0-9”, or “-”, or blank for software changes or marketing purposes only)	

From the above model, FAP-231G was selected as representative SKU for the test and its data was recorded in this report.

1.2 Testing Applied Standards

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

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

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

- ◆ KDB 558074 D01 v05r02
- ◆ KDB 414788 D01 v01r01

1.3 Testing Location Information

Test Lab. : Sporton International Inc. Hsinhua Laboratory				
<input checked="" type="checkbox"/>	Hsinhua (TAF: 3785)	ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)		
		TEL: 886-3-327-3456	FAX: 886-3-327-0973	
Test site Designation No. TW3785 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Bart Chen	23.4~24°C / 57~60%	04/Oct/2022
RF Conducted	TH01-HY	Johnny Yu	20.6~26.9°C / 50~60%	08/Aug/2022~15/Nov/2022
Radiated	03CH03-HY	Bart Chen	23.5~24.2°C / 57~68%	03/Aug/2022~05/Oct/2022
Radiated for Co-location	03CH02-HY	Daniel Lin	21~24.4°C / 58~63%	18/Oct/2022~20/Oct/2022
<input type="checkbox"/>	Wen 33rd.St. (TAF: 3785)	ADD: No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)		
		TEL: 886-3-318-0787	FAX: 886-3-318-0287	
Test site Designation No. TW0008 with FCC.				

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%
Receiver Radiated Unwanted Emissions	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	DOS V6.1
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Mode	Power Setting
Zigbee	-
2405MHz	100
2440MHz	100
2475MHz	100
2480MHz	60

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, FAP-231G
2	Adapter Mode, FAP-233G

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, FAP-231G		
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	Normal Link
1	Radio 1:2.4G + Radio 2:5G + Radio 3:2.4G + Bluetooth
2	Radio 1:2.4G + Radio 2:5G + Radio 3:5G + Bluetooth
3	Radio 1:2.4G + Radio 2:5G + Radio 3:6G + Bluetooth
4	Radio 1:2.4G + Radio 2:5G + Radio 3:2.4G + Zigbee
5	Radio 1:2.4G + Radio 2:5G + Radio 3:5G + Zigbee
6	Radio 1:2.4G + Radio 2:5G + Radio 3:6G + Zigbee
7	Radio 1:2.4G + (Radio 2:5G(Low Band) + Radio 3:5G(High Band)) + Bluetooth
8	Radio 1:2.4G + (Radio 2:5G(Low Band) + Radio 3:5G(High Band)) + Zigbee
Refer to Appendix G for Radiated Emission Co-location.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Operating Mode	CTX
1	Radio 1:2.4G + Radio 2:5G + Radio 3:2.4G + Bluetooth
2	Radio 1:2.4G + Radio 2:5G + Radio 3:5G + Bluetooth
3	Radio 1:2.4G + Radio 2:5G + Radio 3:6G + Bluetooth
4	Radio 1:2.4G + Radio 2:5G + Radio 3:2.4G + Zigbee
5	Radio 1:2.4G + Radio 2:5G + Radio 3:5G + Zigbee
6	Radio 1:2.4G + Radio 2:5G + Radio 3:6G + Zigbee
7	Radio 1:2.4G + (Radio 2:5G(Low Band) + Radio 3:5G(High Band)) + Bluetooth
8	Radio 1:2.4G + (Radio 2:5G(Low Band) + Radio 3:5G(High Band)) + Zigbee
Refer to Sporton Test Report No.: FA262434 for Co-location RF Exposure Evaluation.	



2.3 Accessories

Accessories				
Bracket ceiling mount 1	Brand Name	DRAGONJET CORPORATION	Model Name	CLIP CEILING 9/16 LFP
Bracket ceiling mount 2	Brand Name	DRAGONJET CORPORATION	Model Name	CLIP CEILING 15/16 LFP

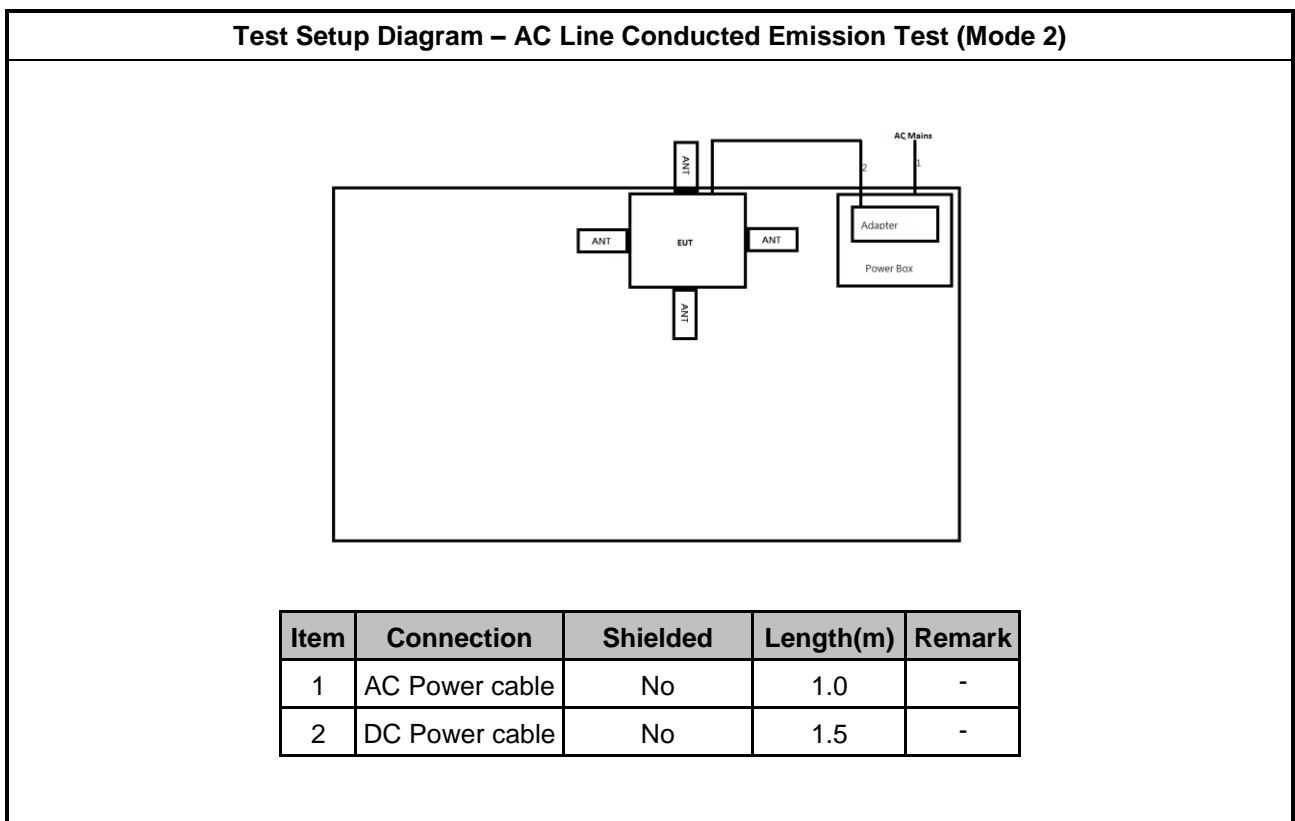
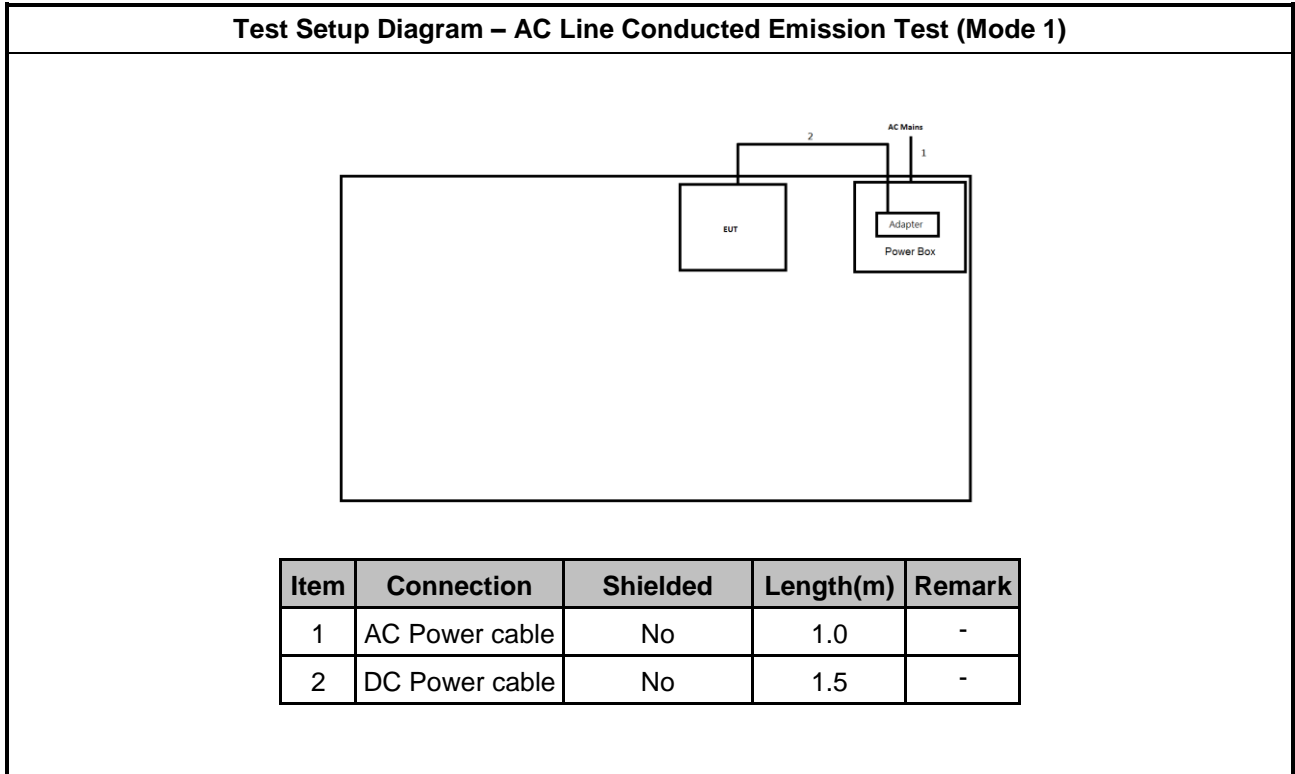
2.4 Support Equipment

Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	AC Power cable	Power sync	PW-GPC180-3	-	-
2	AC Adapter	ASIAN POWER DEVICES INC.	WA-48A12R	-	Provided by Customer

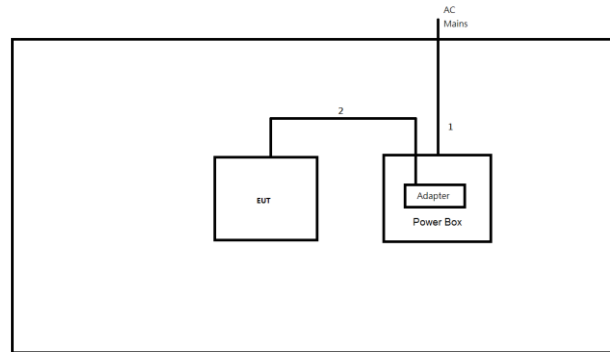
Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-
3	AC Adapter	ASIAN POWER DEVICES INC.	WA-48A12R	-	Provided by Customer
4	PoE Adapter	SENAO	EPA5006GPR	-	Provided by Customer

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	AC Power cable	Power sync	PW-GPC180-3	-	-
2	AC Adapter	ASIAN POWER DEVICES INC.	WA-48A12R	-	Provided by Customer

2.5 Test Setup Diagram



Test Setup Diagram - Radiated Test



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



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

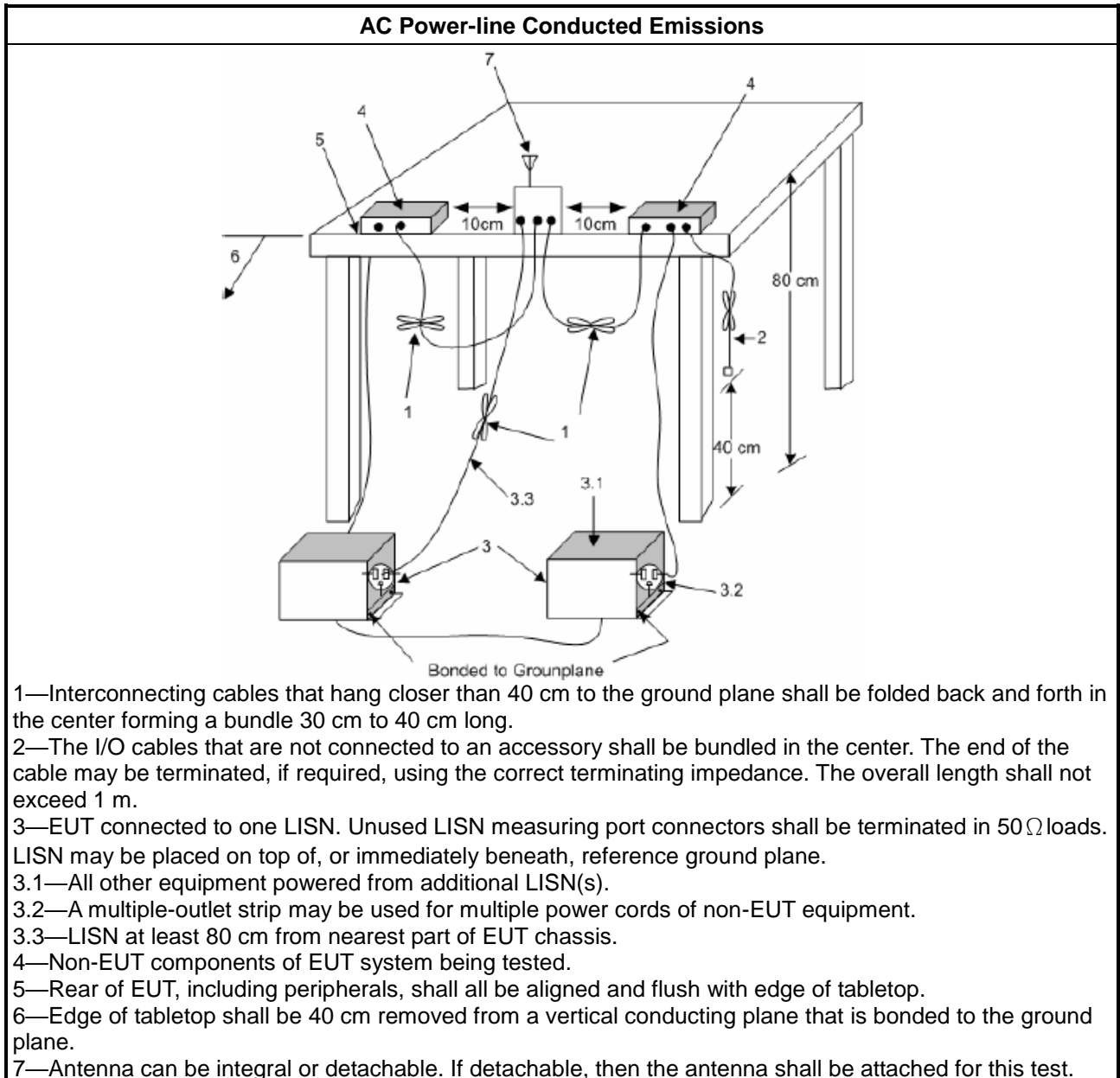
Test Method
<input checked="" type="checkbox"/> Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

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:
<ul style="list-style-type: none"> ▪ 6 dB bandwidth \geq 500 kHz.

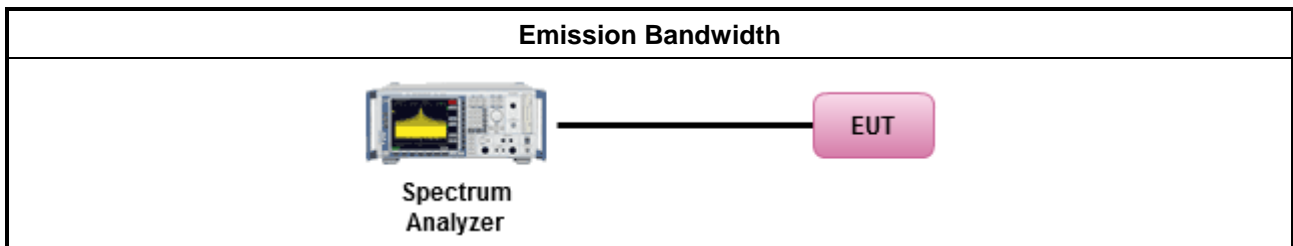
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

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

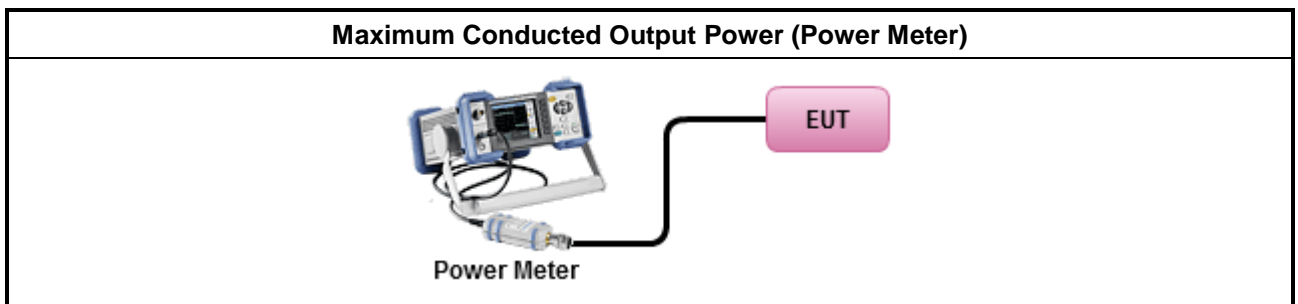
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

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

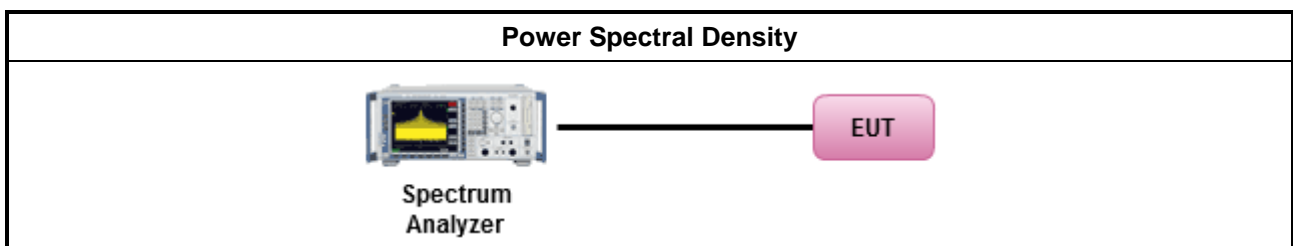
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

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

Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak level.

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

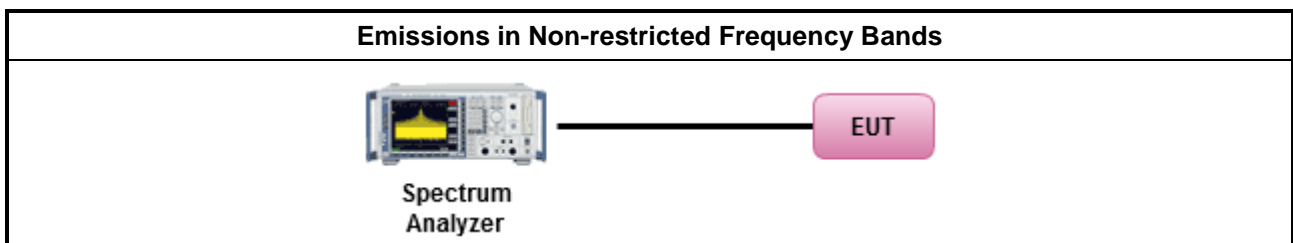
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

Restricted Band Emissions Limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

Note 3: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m.

3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

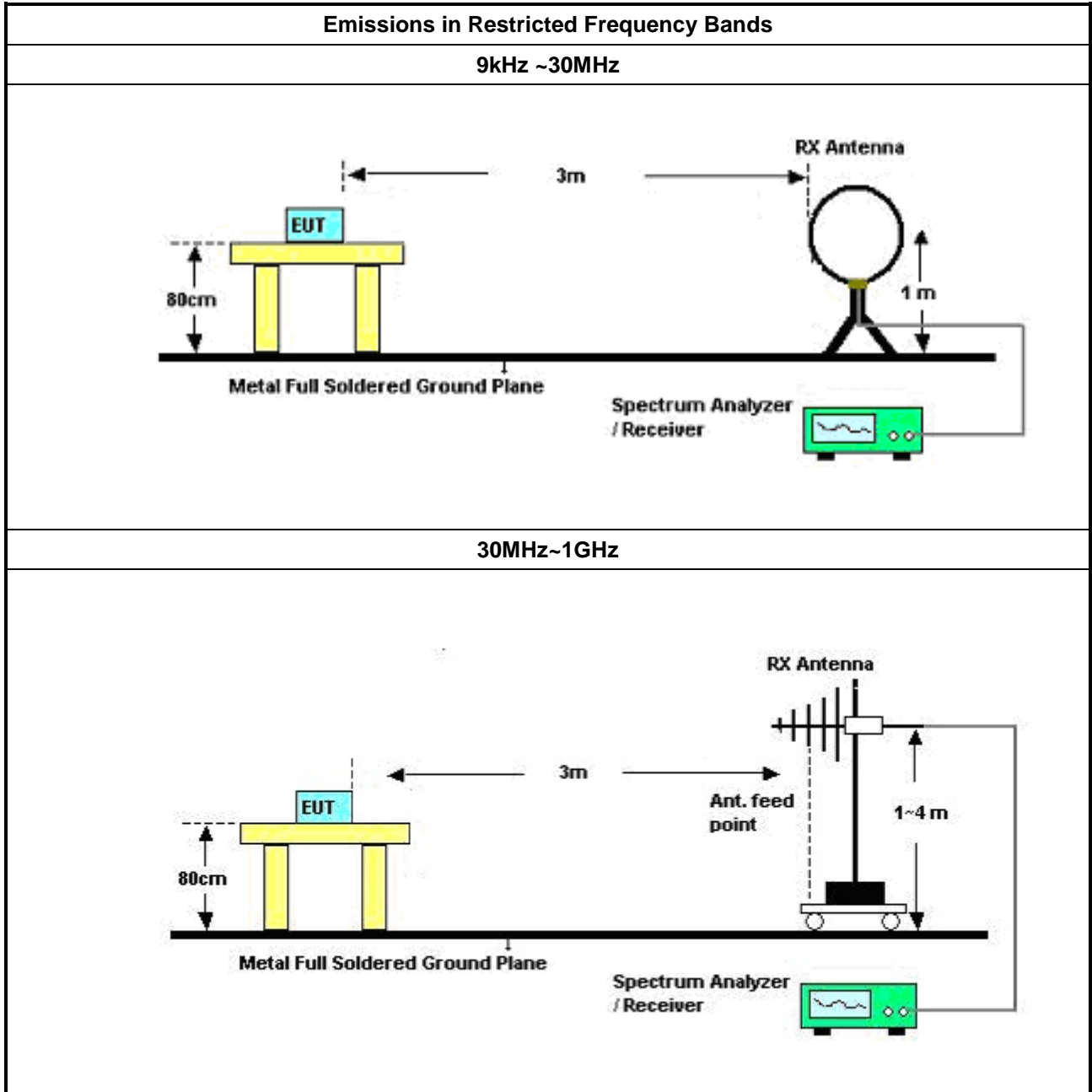
Test Method	
	<ul style="list-style-type: none"> ▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].
	<ul style="list-style-type: none"> ▪ Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel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

3.6.4 Measurement Results Calculation

The measured Level is calculated using:

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

3.6.5 Test Setup



4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR3	102051	9kHz ~ 3.6GHz	13/May/2022	12/May/2023
Two-Line V-Network	R&S	ENV 216	100003	9kHz ~ 30MHz	18/Feb/2022	17/Feb/2023
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	01/Mar/2022	28/Feb/2023
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	26/Oct/2021	25/Oct/2022
Software	Sporton	SENSE-EMI	V5.10.8.7	-	NCR	NCR

NCR: No Calibration Required

Instrument for Conducted Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101013	10Hz~40GHz	01/Apr/2022	31/Mar/2023
Signal Generator	R&S	SMB100A	181239	1 MHz ~40GHz	05/Jan/2022	04/Jan/2023
Pulse Sensor	Anritsu	MA2411B	0917017	300MHz~40GHz	21/Feb/2022	20/Feb/2023
Power Meter	Anritsu	ML2495A	0949003	300MHz~40GHz	21/Feb/2022	20/Feb/2023
SENSE-15247_FS	Sporton	V5.14.7.16	N/A	N/A	N/A	N/A

Instrument for Radiated for Co-location Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3m	30/Jul/2022	29/Jul/2023
Signal Analyzer	R&S	FSP40	100593	9kHz~40GHz	08/Apr/2022	07/Apr/2023
Microwave System Prempplier	KEYSIGHT	83017A	MY53270197	1GHz~26.5GHz	30/Nov/2021	29/Nov/2022
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02268	1GHz ~18GHz	27/Sep/2022	26/Sep/2023
RF Cable-R03m	HUBER+SUHNER	SUCOFLEX10 4	805193/4+805192/4	1GHz~40GHz	01/Apr/2022	31/Mar/2023
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz~40GHz	18/Mar/2022	17/Mar/2023
Microwave Prempplier	EMC INSTRUMENTS	EM18G40G	060604	18GHz~40GHz	08/Mar/2022	07/Mar/2023
SENSE-EMI	Sporton	V5.10.8.3	N/A	N/A	N/A	N/A



Instrument for Radiated Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30MHz~1GHz 3m	01/Aug/2022	31/Jul/2023
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	1GHz~18GHz 3m	02/Aug/2022	01/Aug/2023
Signal Analyzer	R&S	FSV40	101500	10Hz~40GHz	12/Oct/2021	11/Oct/2022
Amplifier	HP	8447D	2944A08033	10kHz~1.3GHz	08/Apr/2022	07/Apr/2023
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02267	1GHz ~18GHz	14/Sep/2021	13/Sep/2022
Bilog Antenna & 6dB Attenuator	SCHAFFNER / EMCI	CBL6112B / N-6-05	22237 / AT-N-0603	30MHz~1GHz	17/Oct/2021	16/Oct/2022
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz~30MHz	13/Jun/2022	12/Jun/2023
RF Cable-R03m	Jye Bao	RG142	MY37335/4+CB021-1+CB021-2	30MHz~1GHz	22/Mar/2022	21/Mar/2023
RF CABLE 5+6m	HUBER+SUHNER	SUOFLEX 104	03CH03-cable-01	1GHz~40GHz	27/Jul/2022	26/Jul/2023
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz~40GHz	18/Mar/2022	17/Mar/2023
Microwave Premplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~ 40GHz	08/Mar/2022	07/Mar/2023
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	18/Mar/2022	17/Mar/2023
EMI Test Receiver	R&S	ESR3	102052	9kHz~3.6GHz	13/May/2022	12/May/2023
Microwave Preamplifier	Agilent	8449B	3008A02326	1GHz~26.5GHz	14/Jul/2022	13/Jul/2023
SENSE-15247_DTS	Sporton	v5.10.8.3	NA	2.4G	NA	NA



Summary

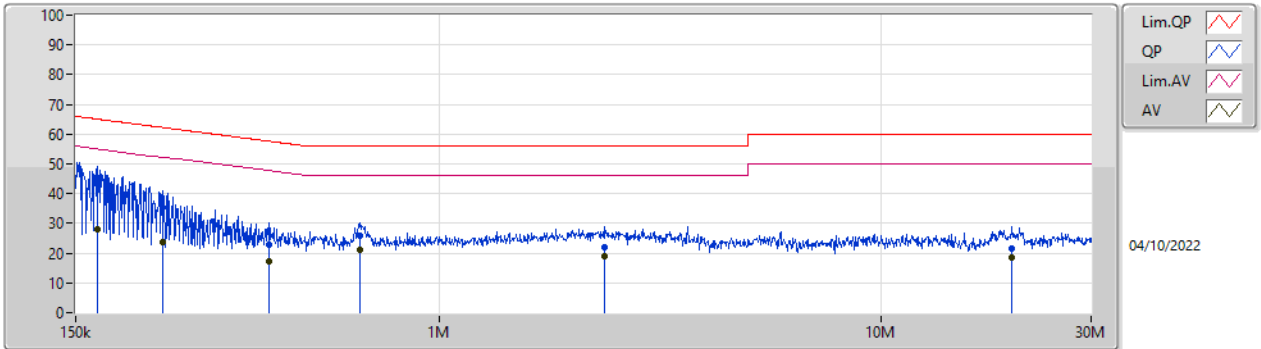
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	167.739k	44.94	65.06	-20.12	Line



Result

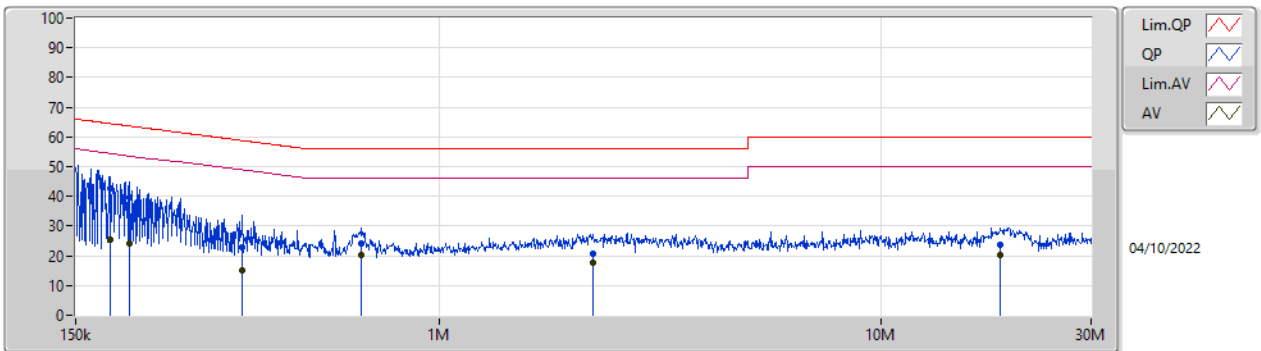
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	167.739k	44.94	65.06	-20.12	Line	-
Mode 1	Pass	AV	167.739k	28.04	55.06	-27.02	Line	-
Mode 1	Pass	QP	235.505k	35.40	62.25	-26.85	Line	-
Mode 1	Pass	AV	235.505k	23.50	52.25	-28.75	Line	-
Mode 1	Pass	QP	411.832k	22.86	57.61	-34.75	Line	-
Mode 1	Pass	AV	411.832k	17.39	47.61	-30.22	Line	-
Mode 1	Pass	QP	659.627k	25.68	56.00	-30.32	Line	-
Mode 1	Pass	AV	659.627k	20.96	46.00	-25.04	Line	-
Mode 1	Pass	QP	2.376M	22.06	56.00	-33.94	Line	-
Mode 1	Pass	AV	2.376M	18.84	46.00	-27.16	Line	-
Mode 1	Pass	QP	19.868M	21.74	60.00	-38.26	Line	-
Mode 1	Pass	AV	19.868M	18.54	50.00	-31.46	Line	-
Mode 1	Pass	QP	179.518k	42.53	64.51	-21.98	Neutral	-
Mode 1	Pass	AV	179.518k	25.26	54.51	-29.25	Neutral	-
Mode 1	Pass	QP	199.152k	39.68	63.65	-23.97	Neutral	-
Mode 1	Pass	AV	199.152k	24.27	53.65	-29.38	Neutral	-
Mode 1	Pass	QP	358.13k	22.86	58.77	-35.91	Neutral	-
Mode 1	Pass	AV	358.13k	14.89	48.77	-33.88	Neutral	-
Mode 1	Pass	QP	667.575k	24.32	56.00	-31.68	Neutral	-
Mode 1	Pass	AV	667.575k	20.29	46.00	-25.71	Neutral	-
Mode 1	Pass	QP	2.229M	20.72	56.00	-35.28	Neutral	-
Mode 1	Pass	AV	2.229M	17.79	46.00	-28.21	Neutral	-
Mode 1	Pass	QP	18.713M	23.80	60.00	-36.20	Neutral	-
Mode 1	Pass	AV	18.713M	20.45	50.00	-29.55	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	167.739k	44.94	65.06	-20.12	19.63	Line	-	25.31	9.69	0.03	9.91
AV	167.739k	28.04	55.06	-27.02	19.63	Line	-	8.41	9.69	0.03	9.91
QP	235.505k	35.40	62.25	-26.85	19.63	Line	-	15.77	9.69	0.03	9.91
AV	235.505k	23.50	52.25	-28.75	19.63	Line	-	3.87	9.69	0.03	9.91
QP	411.832k	22.86	57.61	-34.75	19.63	Line	-	3.23	9.68	0.04	9.91
AV	411.832k	17.39	47.61	-30.22	19.63	Line	-	-2.24	9.68	0.04	9.91
QP	659.627k	25.68	56.00	-30.32	19.65	Line	-	6.03	9.68	0.05	9.92
AV	659.627k	20.96	46.00	-25.04	19.65	Line	-	1.31	9.68	0.05	9.92
QP	2.376M	22.06	56.00	-33.94	19.71	Line	-	2.35	9.70	0.09	9.92
AV	2.376M	18.84	46.00	-27.16	19.71	Line	-	-0.87	9.70	0.09	9.92
QP	19.868M	21.74	60.00	-38.26	19.99	Line	-	1.75	9.79	0.27	9.93
AV	19.868M	18.54	50.00	-31.46	19.99	Line	-	-1.45	9.79	0.27	9.93

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	179.518k	42.53	64.51	-21.98	19.66	Neutral	-	22.87	9.72	0.03	9.91
AV	179.518k	25.26	54.51	-29.25	19.66	Neutral	-	5.60	9.72	0.03	9.91
QP	199.152k	39.68	63.65	-23.97	19.66	Neutral	-	20.02	9.72	0.03	9.91
AV	199.152k	24.27	53.65	-29.38	19.66	Neutral	-	4.61	9.72	0.03	9.91
QP	358.13k	22.86	58.77	-35.91	19.67	Neutral	-	3.19	9.72	0.04	9.91
AV	358.13k	14.89	48.77	-33.88	19.67	Neutral	-	-4.78	9.72	0.04	9.91
QP	667.575k	24.32	56.00	-31.68	19.70	Neutral	-	4.62	9.73	0.05	9.92
AV	667.575k	20.29	46.00	-25.71	19.70	Neutral	-	0.59	9.73	0.05	9.92
QP	2.229M	20.72	56.00	-35.28	19.75	Neutral	-	0.97	9.74	0.09	9.92
AV	2.229M	17.79	46.00	-28.21	19.75	Neutral	-	-1.96	9.74	0.09	9.92
QP	18.713M	23.80	60.00	-36.20	20.17	Neutral	-	3.63	9.98	0.26	9.93
AV	18.713M	20.45	50.00	-29.55	20.17	Neutral	-	0.28	9.98	0.26	9.93



Summary

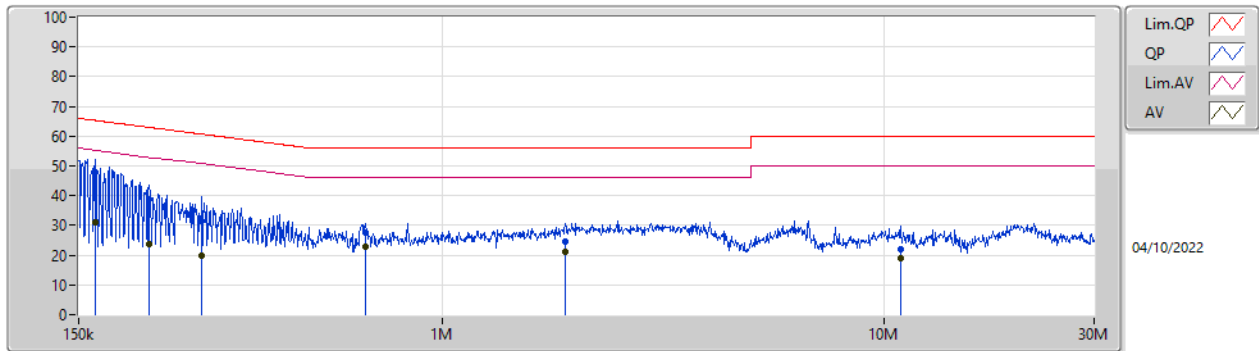
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 2	Pass	QP	163.117k	47.90	65.31	-17.41	Line



Result

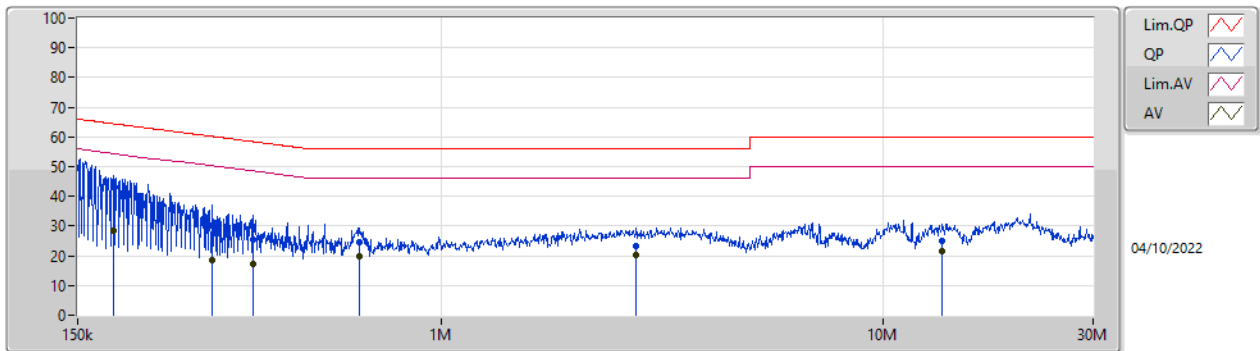
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 2	Pass	QP	163.117k	47.90	65.31	-17.41	Line	-
Mode 2	Pass	AV	163.117k	31.17	55.31	-24.14	Line	-
Mode 2	Pass	QP	216.567k	38.60	62.94	-24.34	Line	-
Mode 2	Pass	AV	216.567k	23.85	52.94	-29.09	Line	-
Mode 2	Pass	QP	285.246k	31.37	60.67	-29.30	Line	-
Mode 2	Pass	AV	285.246k	19.62	50.67	-31.05	Line	-
Mode 2	Pass	QP	670.245k	27.62	56.00	-28.38	Line	-
Mode 2	Pass	AV	670.245k	22.95	46.00	-23.05	Line	-
Mode 2	Pass	QP	1.9M	24.56	56.00	-31.44	Line	-
Mode 2	Pass	AV	1.9M	20.94	46.00	-25.06	Line	-
Mode 2	Pass	QP	10.917M	21.80	60.00	-38.20	Line	-
Mode 2	Pass	AV	10.917M	18.81	50.00	-31.19	Line	-
Mode 2	Pass	QP	180.957k	44.85	64.43	-19.58	Neutral	-
Mode 2	Pass	AV	180.957k	28.53	54.43	-25.90	Neutral	-
Mode 2	Pass	QP	302.848k	30.02	60.17	-30.15	Neutral	-
Mode 2	Pass	AV	302.848k	18.38	50.17	-31.79	Neutral	-
Mode 2	Pass	QP	375.703k	25.64	58.37	-32.73	Neutral	-
Mode 2	Pass	AV	375.703k	17.16	48.37	-31.21	Neutral	-
Mode 2	Pass	QP	654.382k	24.40	56.00	-31.60	Neutral	-
Mode 2	Pass	AV	654.382k	19.67	46.00	-26.33	Neutral	-
Mode 2	Pass	QP	2.765M	23.48	56.00	-32.52	Neutral	-
Mode 2	Pass	AV	2.765M	20.17	46.00	-25.83	Neutral	-
Mode 2	Pass	QP	13.652M	24.88	60.00	-35.12	Neutral	-
Mode 2	Pass	AV	13.652M	21.63	50.00	-28.37	Neutral	-

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	163.117k	47.90	65.31	-17.41	19.63	Line	-	28.27	9.69	0.03	9.91
AV	163.117k	31.17	55.31	-24.14	19.63	Line	-	11.54	9.69	0.03	9.91
QP	216.567k	38.60	62.94	-24.34	19.63	Line	-	18.97	9.69	0.03	9.91
AV	216.567k	23.85	52.94	-29.09	19.63	Line	-	4.22	9.69	0.03	9.91
QP	285.246k	31.37	60.67	-29.30	19.63	Line	-	11.74	9.68	0.04	9.91
AV	285.246k	19.62	50.67	-31.05	19.63	Line	-	-0.01	9.68	0.04	9.91
QP	670.245k	27.62	56.00	-28.38	19.65	Line	-	7.97	9.68	0.05	9.92
AV	670.245k	22.95	46.00	-23.05	19.65	Line	-	3.30	9.68	0.05	9.92
QP	1.9M	24.56	56.00	-31.44	19.70	Line	-	4.86	9.70	0.08	9.92
AV	1.9M	20.94	46.00	-25.06	19.70	Line	-	1.24	9.70	0.08	9.92
QP	10.917M	21.80	60.00	-38.20	19.93	Line	-	1.87	9.81	0.19	9.93
AV	10.917M	18.81	50.00	-31.19	19.93	Line	-	-1.12	9.81	0.19	9.93

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	180.957k	44.85	64.43	-19.58	19.66	Neutral	-	25.19	9.72	0.03	9.91
AV	180.957k	28.53	54.43	-25.90	19.66	Neutral	-	8.87	9.72	0.03	9.91
QP	302.848k	30.02	60.17	-30.15	19.67	Neutral	-	10.35	9.72	0.04	9.91
AV	302.848k	18.38	50.17	-31.79	19.67	Neutral	-	-1.29	9.72	0.04	9.91
QP	375.703k	25.64	58.37	-32.73	19.67	Neutral	-	5.97	9.72	0.04	9.91
AV	375.703k	17.16	48.37	-31.21	19.67	Neutral	-	-2.51	9.72	0.04	9.91
QP	654.382k	24.40	56.00	-31.60	19.70	Neutral	-	4.70	9.73	0.05	9.92
AV	654.382k	19.67	46.00	-26.33	19.70	Neutral	-	-0.03	9.73	0.05	9.92
QP	2.765M	23.48	56.00	-32.52	19.77	Neutral	-	3.71	9.75	0.10	9.92
AV	2.765M	20.17	46.00	-25.83	19.77	Neutral	-	0.40	9.75	0.10	9.92
QP	13.652M	24.88	60.00	-35.12	20.09	Neutral	-	4.79	9.93	0.23	9.93
AV	13.652M	21.63	50.00	-28.37	20.09	Neutral	-	1.54	9.93	0.23	9.93



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
Zigbee	1.631M	2.268M	2M27G1D	1.613M	2.261M

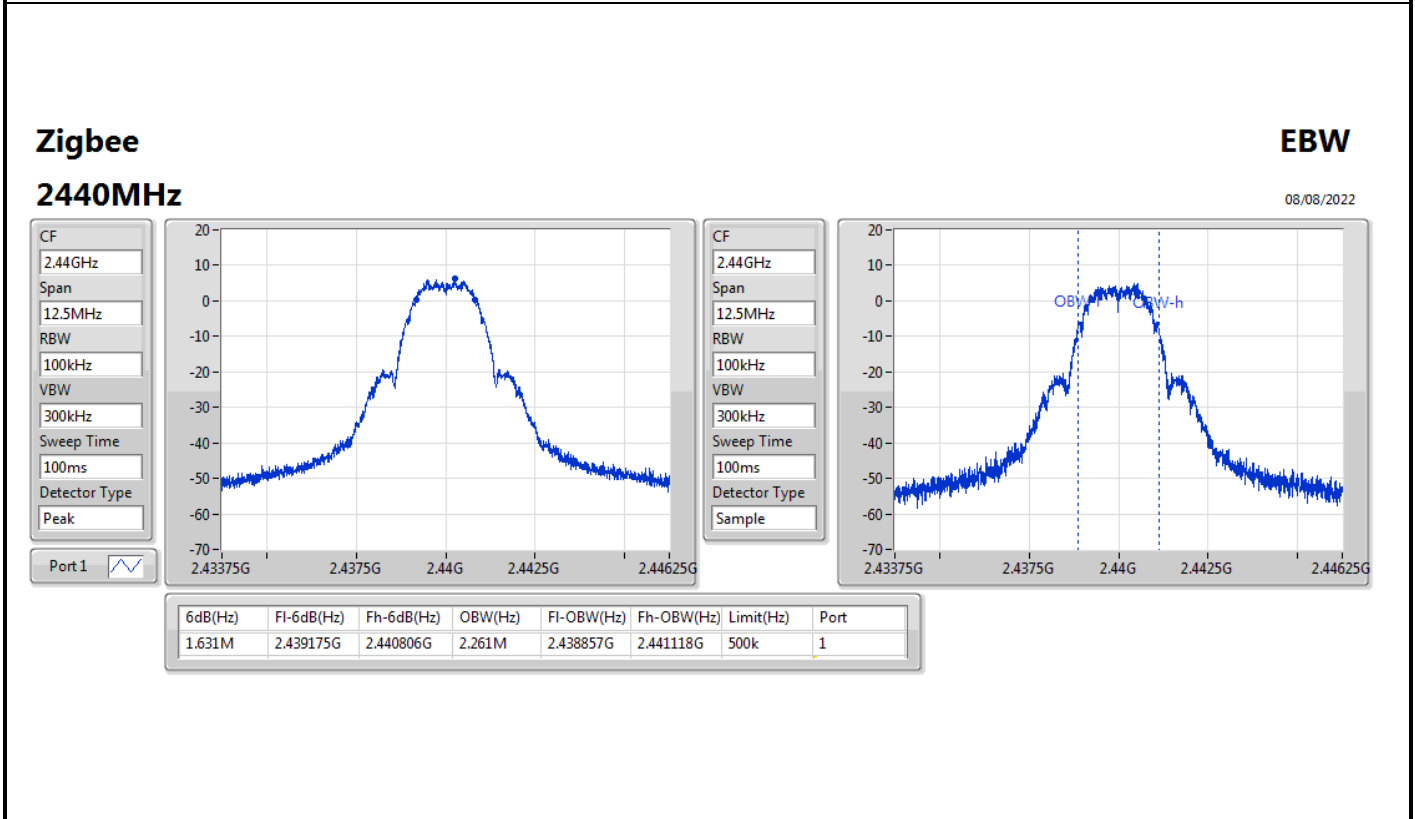
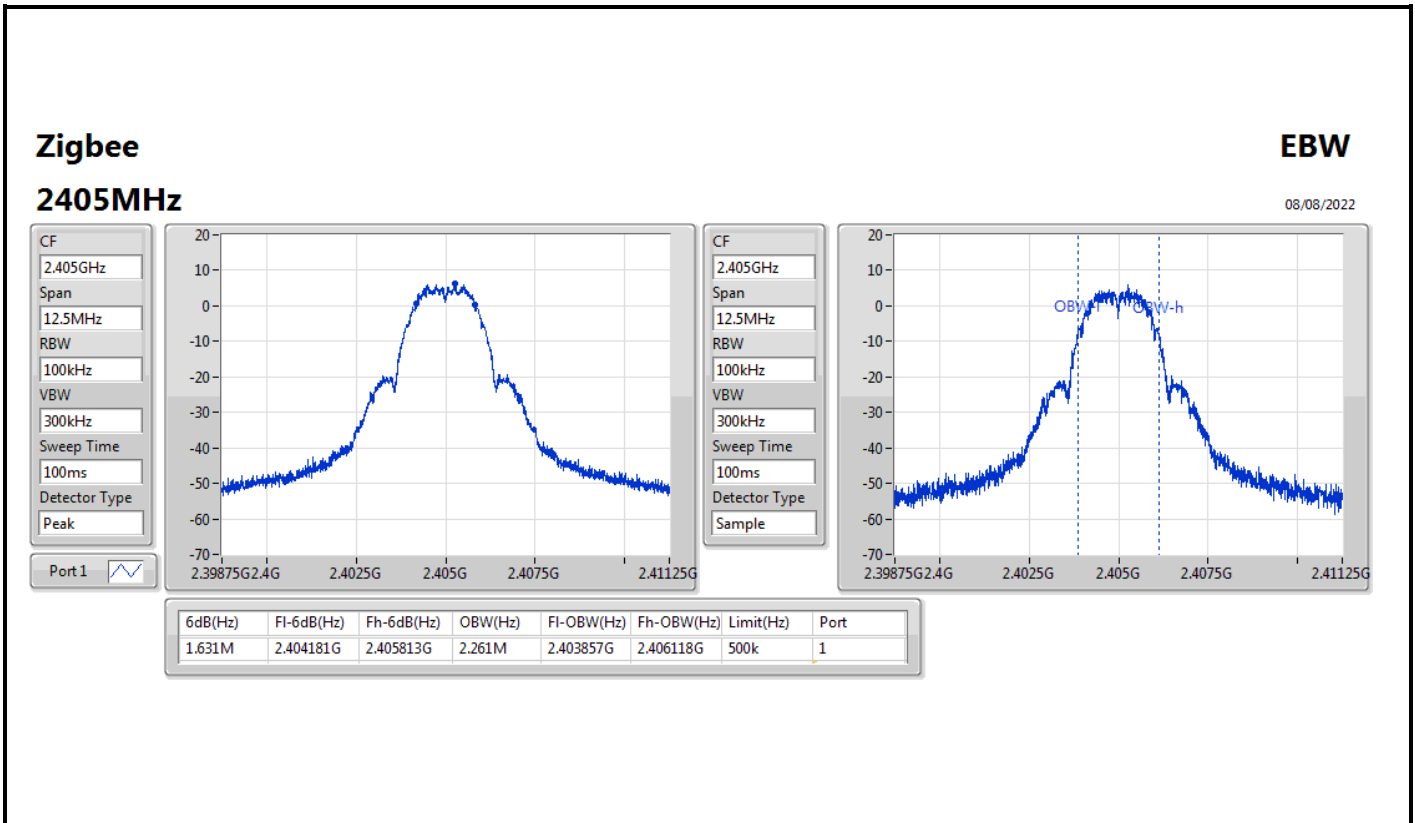
Max-N dB = Maximum 6dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

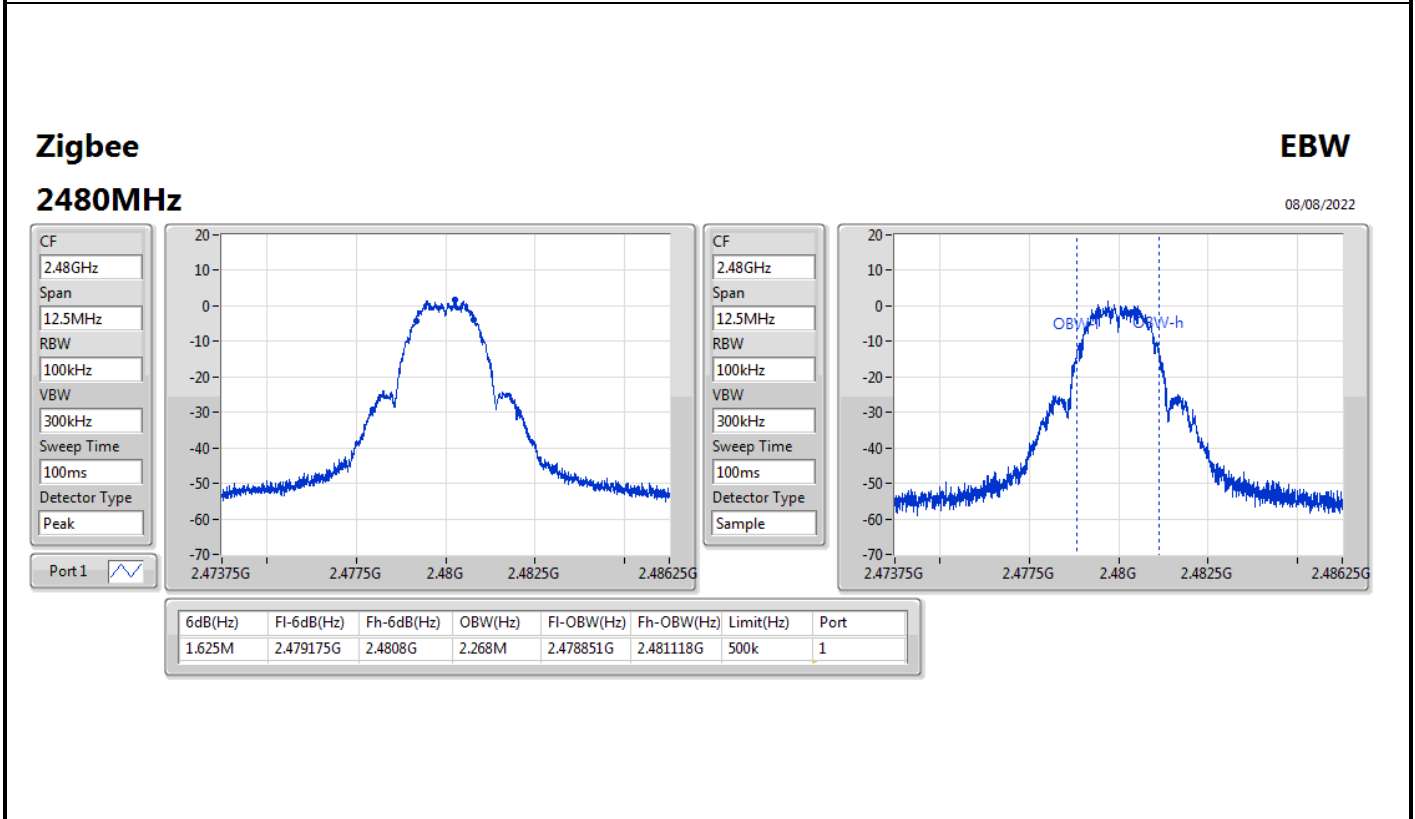
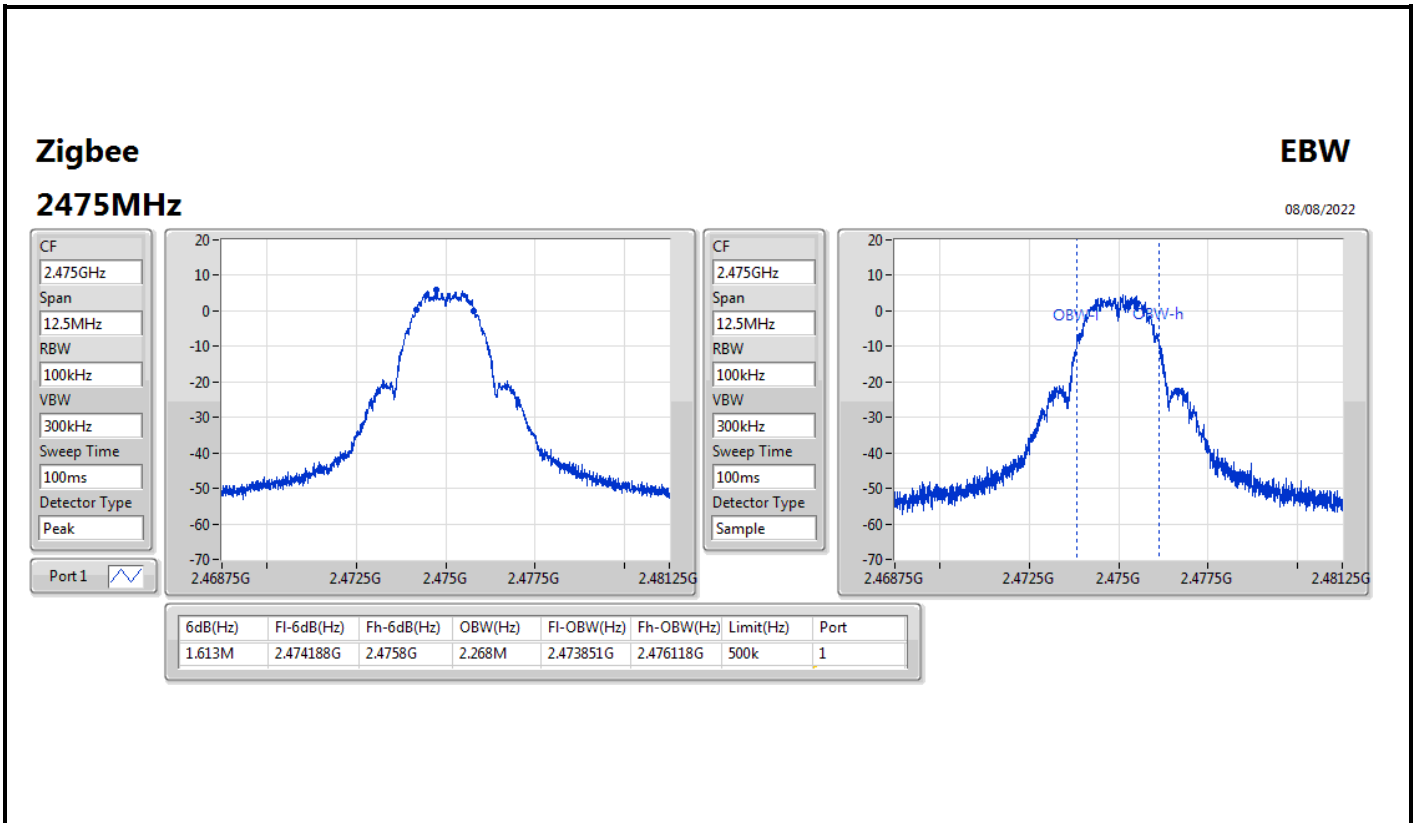


Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
Zigbee	-	-	-	-
2405MHz	Pass	500k	1.631M	2.261M
2440MHz	Pass	500k	1.631M	2.261M
2475MHz	Pass	500k	1.613M	2.268M
2480MHz	Pass	500k	1.625M	2.268M

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







Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
Zigbee	9.78	0.00951



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)
Zigbee	-	-	-	-	-
2405MHz	Pass	5.10	9.78	9.78	30.00
2440MHz	Pass	5.10	9.71	9.71	30.00
2475MHz	Pass	5.10	9.42	9.42	30.00
2480MHz	Pass	5.10	5.36	5.36	30.00

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



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
Zigbee	-6.43

RBW = 3kHz;



Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
Zigbee	-	-	-	-	-
2405MHz	Pass	5.10	-6.97	-6.97	8.00
2440MHz	Pass	5.10	-6.97	-6.97	8.00
2475MHz	Pass	5.10	-6.43	-6.43	8.00
2480MHz	Pass	5.10	-11.18	-11.18	8.00

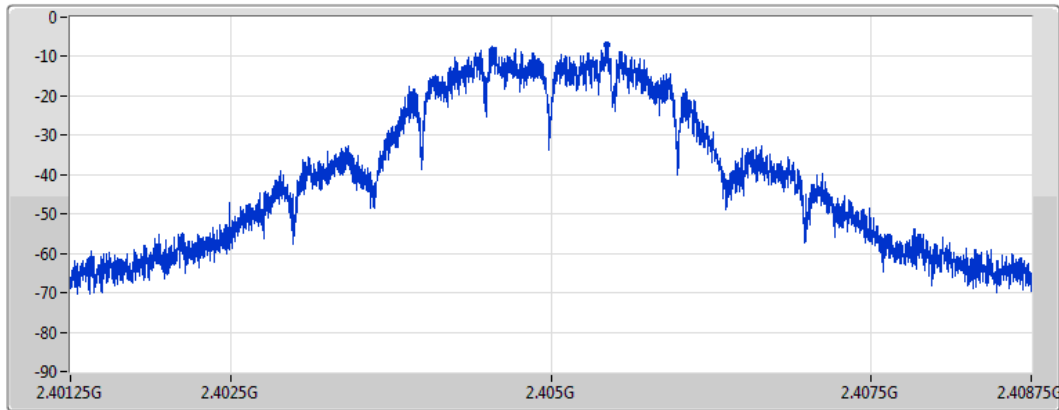
DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;


Zigbee

2405MHz

08/08/2022

CF
2.405GHz
Span
7.5MHz
RBW
3kHz
VBW
10kHz
Sweep Time
1.264102ms
Detector Type
Peak



Port 1 

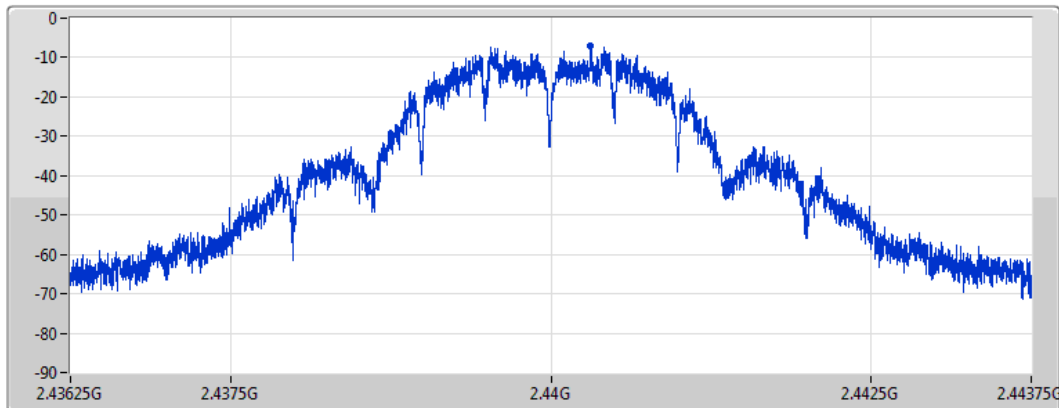
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.97	-6.97	-6.97


Zigbee

2440MHz

08/08/2022

CF
2.44GHz
Span
7.5MHz
RBW
3kHz
VBW
10kHz
Sweep Time
1.264102ms
Detector Type
Peak



Port 1 

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.97	-6.97	-6.97

Zigbee

PSD

2475MHz

08/08/2022

CF
2.475GHz

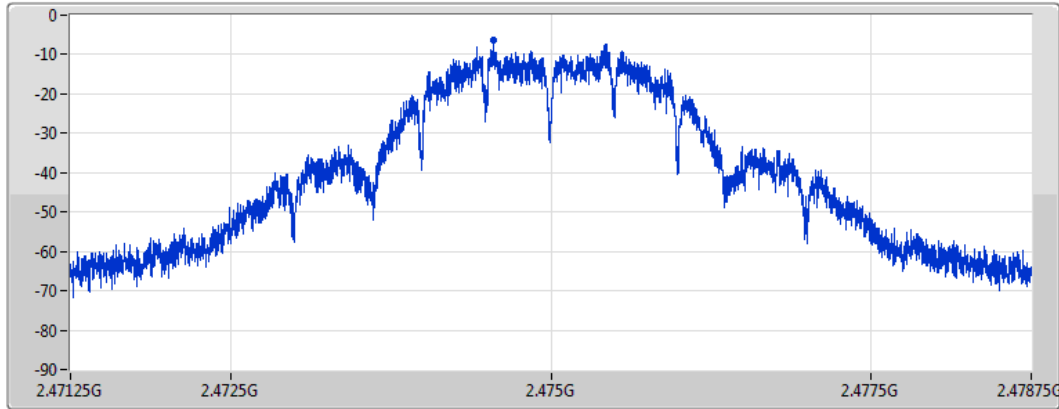
Span
7.5MHz

RBW
3kHz

VBW
10kHz

Sweep Time
1.264102ms

Detector Type
Peak



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.43	-6.43	-6.43

Zigbee

PSD

2480MHz

08/08/2022

CF
2.48GHz

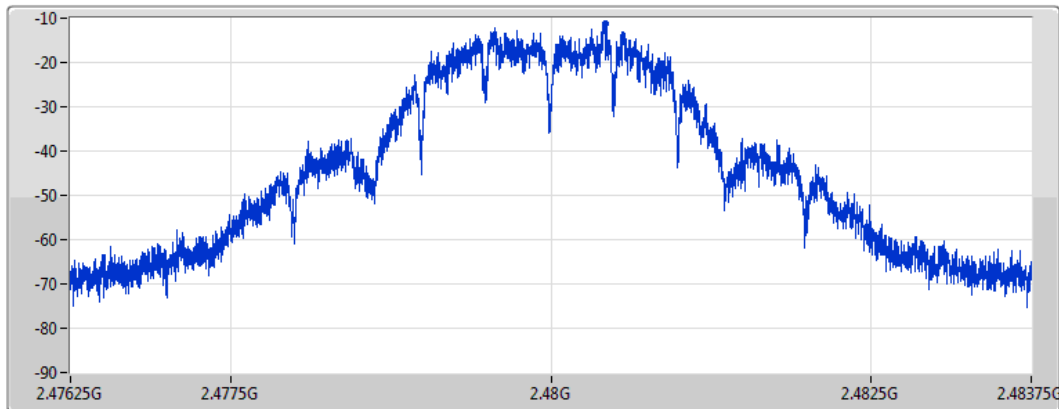
Span
7.5MHz

RBW
3kHz

VBW
10kHz

Sweep Time
1.264102ms

Detector Type
Peak



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-11.18	-11.18	-11.18



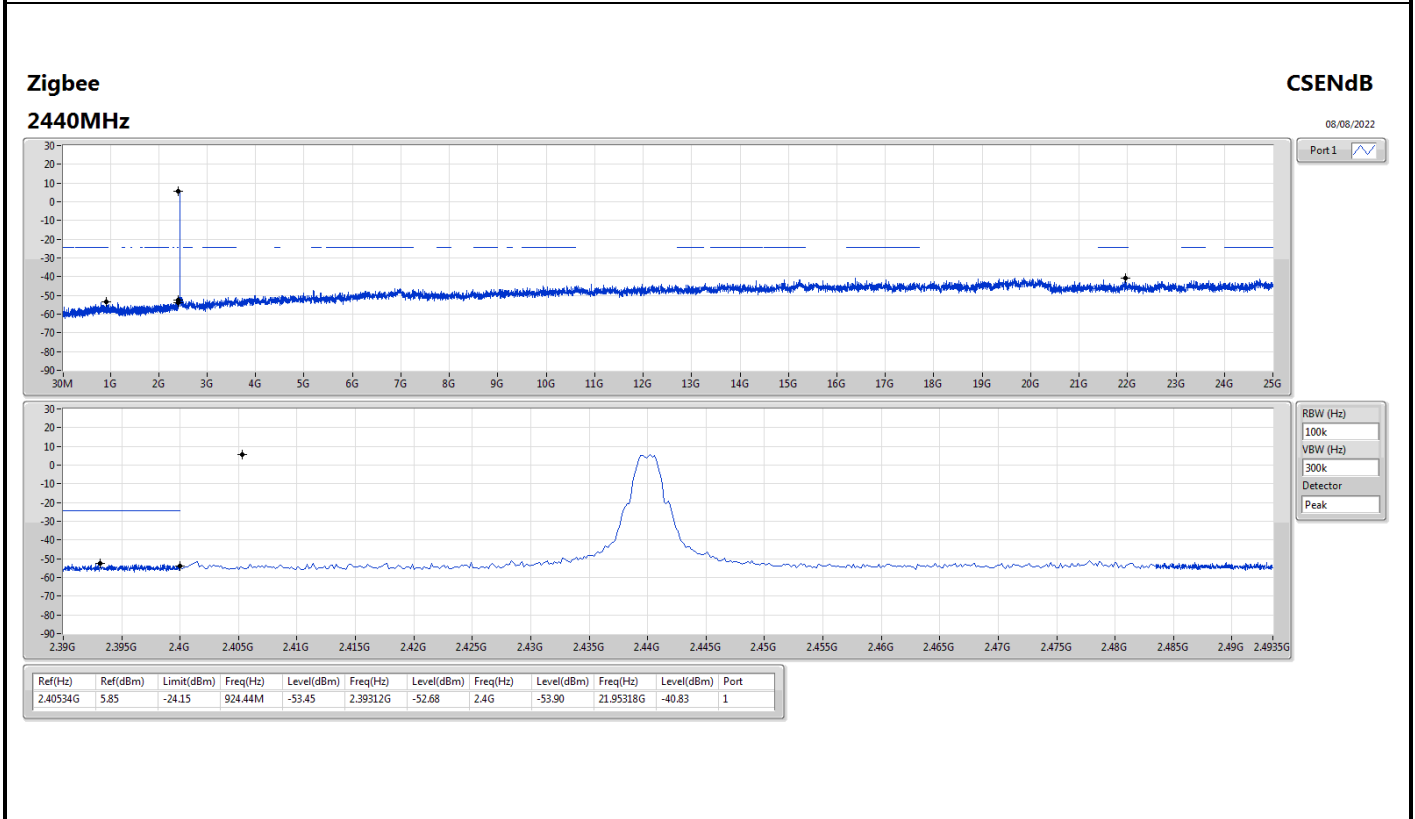
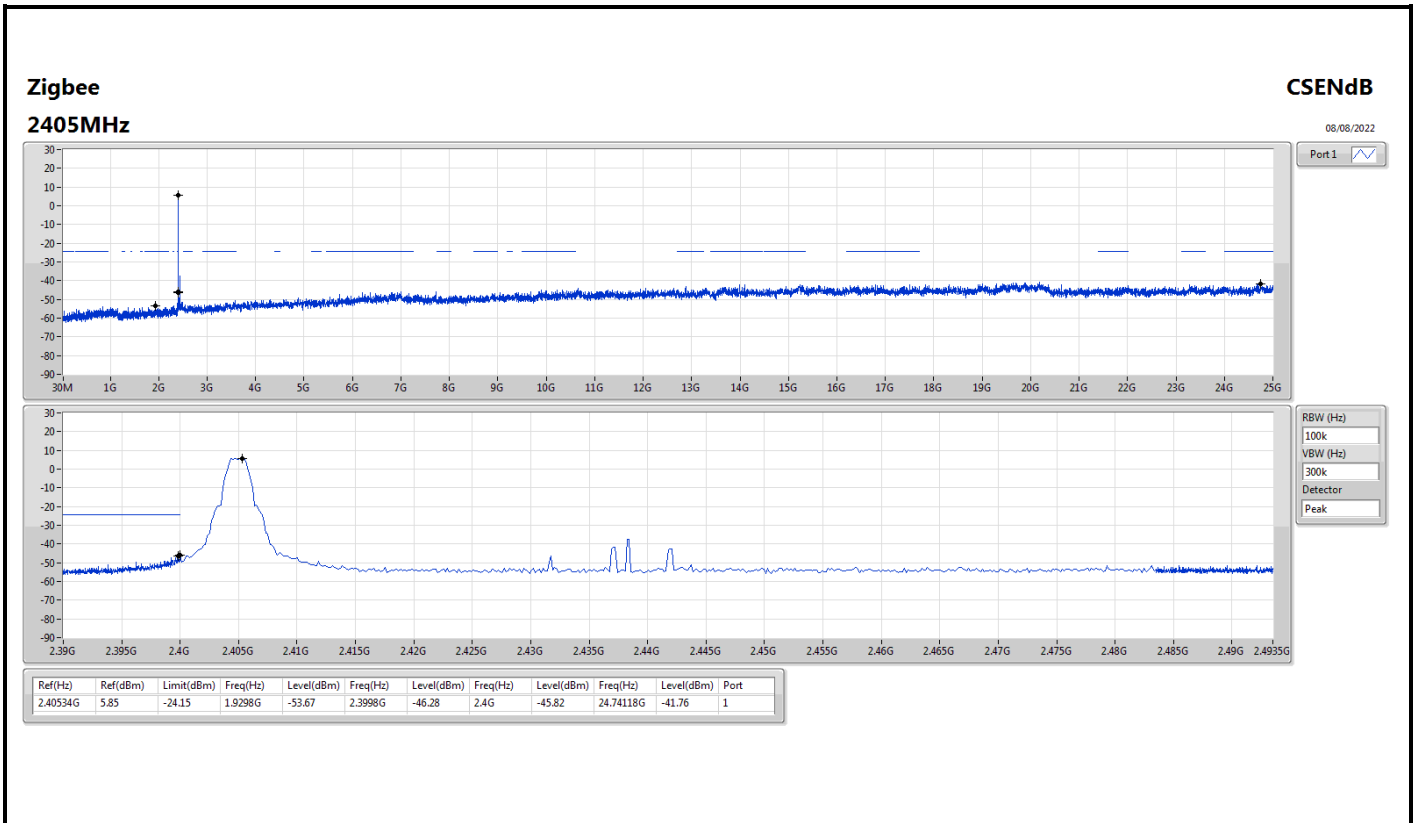
Summary

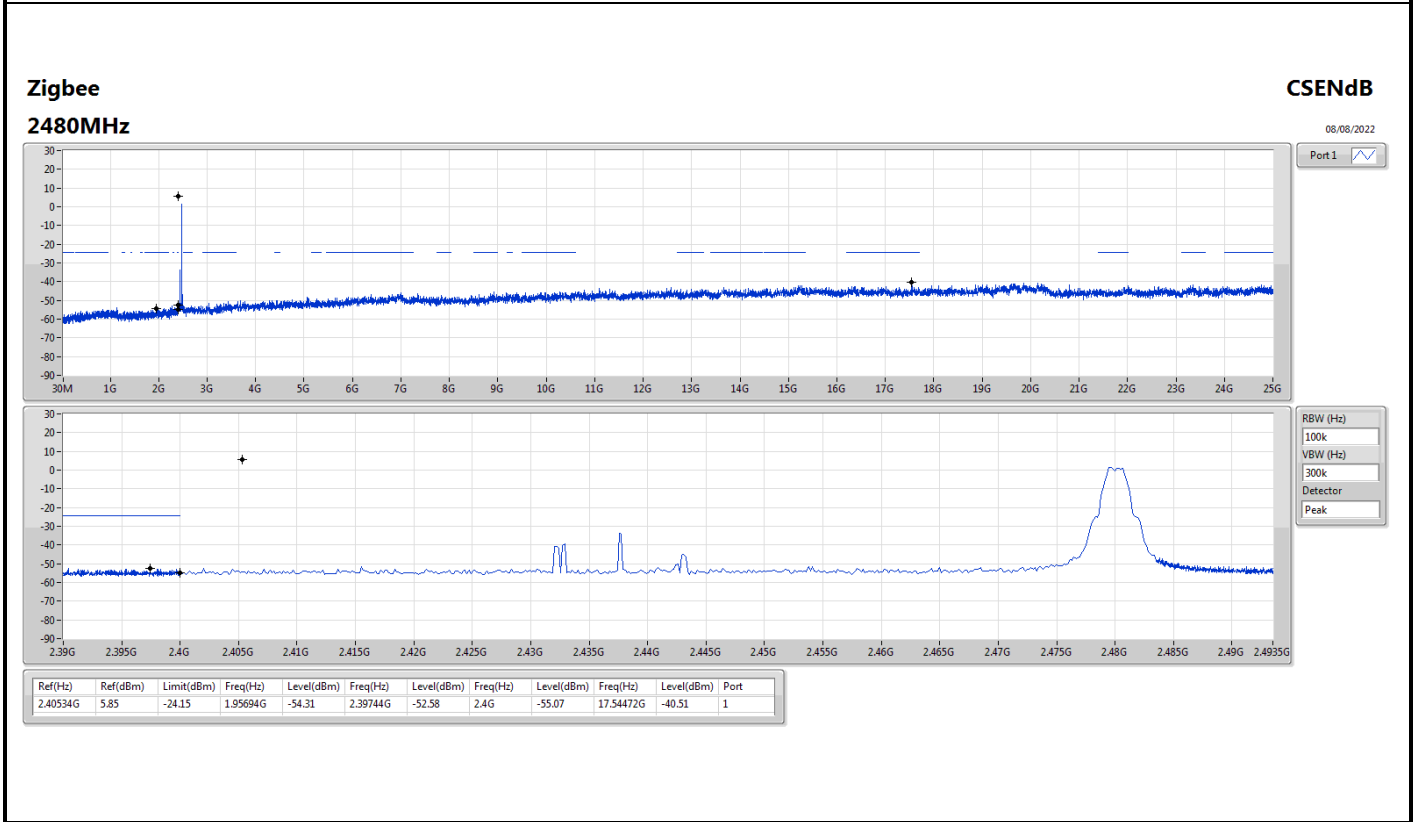
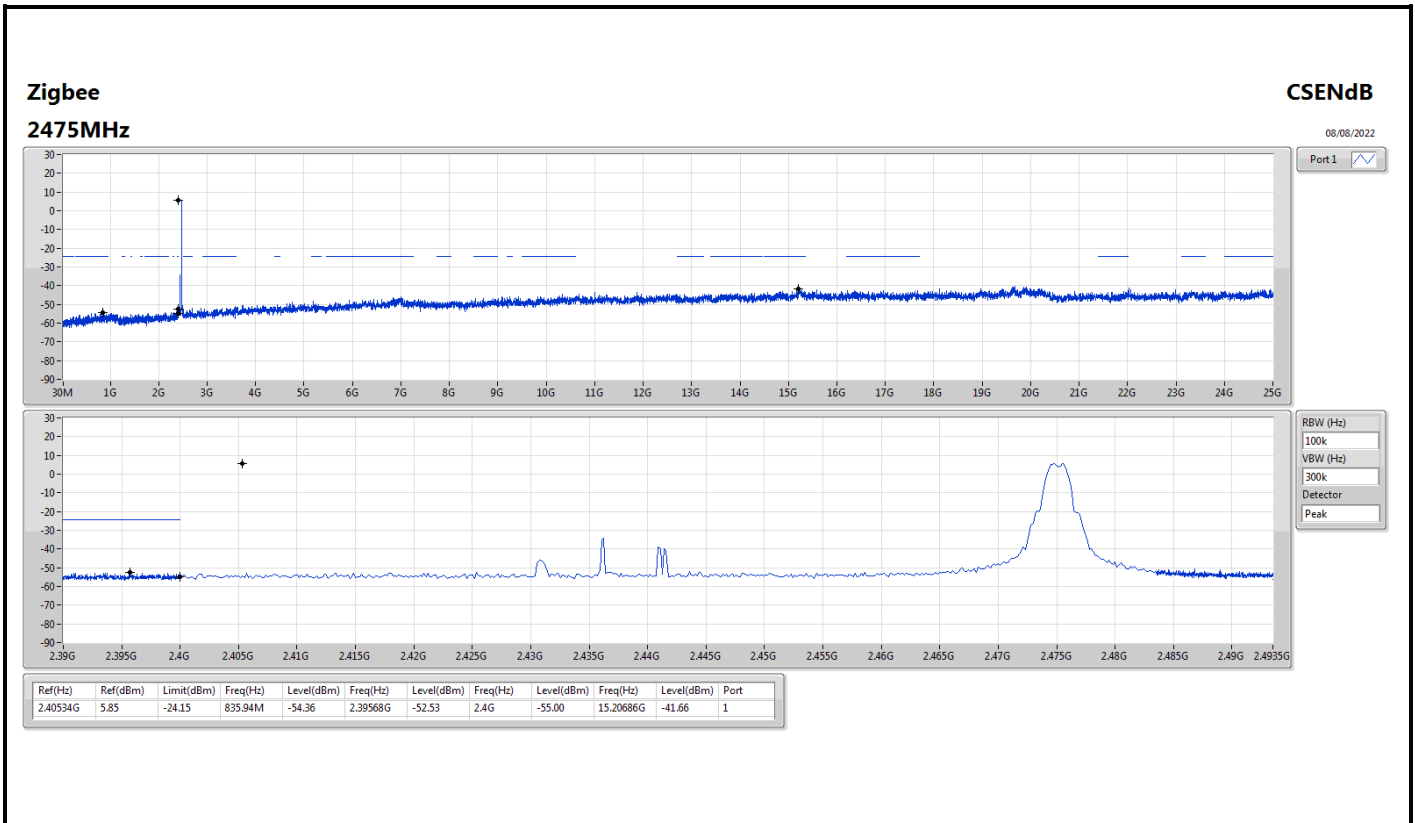
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-
Zigbee	Pass	2.40534G	5.85	-24.15	1.95694G	-54.31	2.39744G	-52.58	2.4G	-55.07	17.54472G	-40.51	1



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)	Port
Zigbee	-	-	-	-	-	-	-	-	-	-	-	-	-
2405MHz	Pass	2.40534G	5.85	-24.15	1.9298G	-53.67	2.3998G	-46.28	2.4G	-45.82	24.74118G	-41.76	1
2440MHz	Pass	2.40534G	5.85	-24.15	924.44M	-53.45	2.39312G	-52.68	2.4G	-53.90	21.95318G	-40.83	1
2475MHz	Pass	2.40534G	5.85	-24.15	835.94M	-54.36	2.39568G	-52.53	2.4G	-55.00	15.20686G	-41.66	1
2480MHz	Pass	2.40534G	5.85	-24.15	1.95694G	-54.31	2.39744G	-52.58	2.4G	-55.07	17.54472G	-40.51	1







Summary

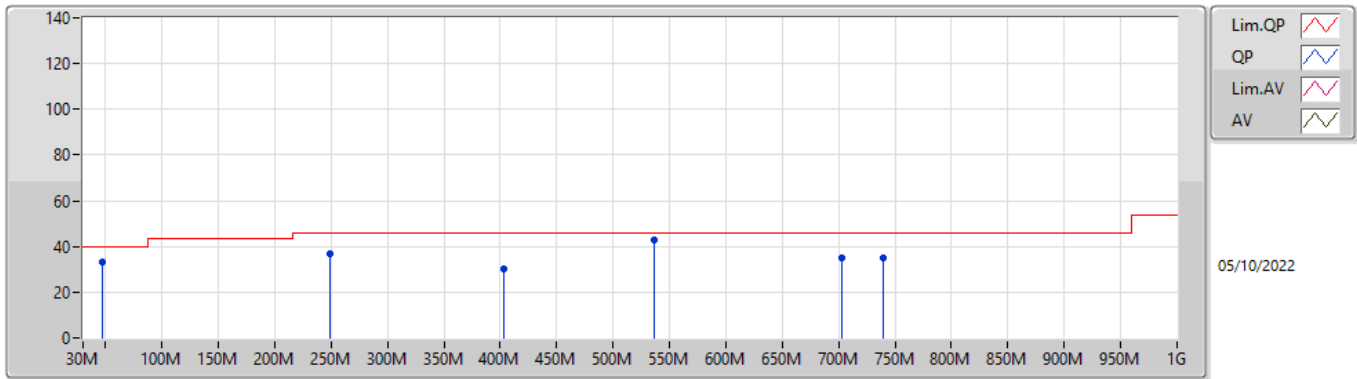
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
Zigbee	Pass	PK	536.34M	42.58	46.00	-3.42	3	Vertical	360	1.00	-



Result

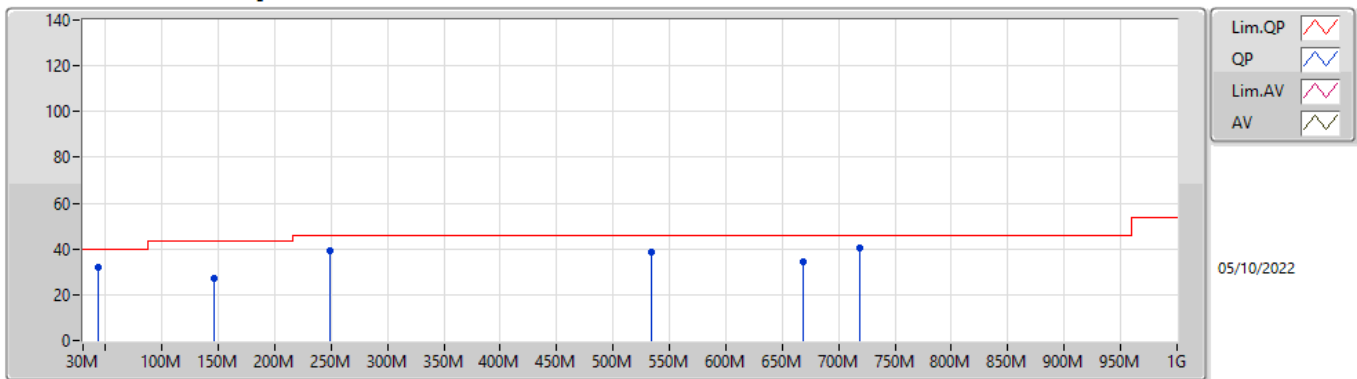
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
Zigbee	-	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	PK	47.46M	33.12	40.00	-6.88	3	Vertical	360	1.00	-
2440MHz	Pass	PK	249.22M	37.09	46.00	-8.91	3	Vertical	360	1.00	-
2440MHz	Pass	PK	402.48M	30.28	46.00	-15.72	3	Vertical	360	1.00	-
2440MHz	Pass	PK	536.34M	42.58	46.00	-3.42	3	Vertical	360	1.00	-
2440MHz	Pass	PK	703.18M	35.26	46.00	-10.74	3	Vertical	360	1.00	-
2440MHz	Pass	PK	740.04M	35.23	46.00	-10.77	3	Vertical	360	1.00	-
2440MHz	Pass	PK	43.58M	31.81	40.00	-8.19	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	146.4M	27.21	43.50	-16.29	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	249.22M	39.50	46.00	-6.50	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	534.4M	38.37	46.00	-7.63	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	668.26M	34.10	46.00	-11.90	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	718.7M	40.45	46.00	-5.55	3	Horizontal	0	1.00	-

Zigbee 2440MHz_Adapter



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	47.46M	33.12	40.00	-6.88	-12.17	3	Vertical	360	1.00	-	45.29	14.24	1.10	27.51
PK	249.22M	37.09	46.00	-8.91	-6.61	3	Vertical	360	1.00	-	43.70	17.44	2.63	26.68
PK	402.48M	30.28	46.00	-15.72	-2.73	3	Vertical	360	1.00	-	33.01	21.09	3.39	27.21
PK	536.34M	42.58	46.00	-3.42	-0.16	3	Vertical	360	1.00	-	42.74	23.84	3.93	27.93
PK	703.18M	35.26	46.00	-10.74	0.85	3	Vertical	360	1.00	-	34.41	24.15	4.57	27.87
PK	740.04M	35.23	46.00	-10.77	1.96	3	Vertical	360	1.00	-	33.27	25.03	4.70	27.77

Zigbee 2440MHz_Adapter



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	43.58M	31.81	40.00	-8.19	-10.56	3	Horizontal	0	1.00	-	42.37	15.90	1.06	27.52
PK	146.4M	27.21	43.50	-16.29	-9.49	3	Horizontal	0	1.00	-	36.70	15.69	1.98	27.16
PK	249.22M	39.50	46.00	-6.50	-6.61	3	Horizontal	0	1.00	-	46.11	17.44	2.63	26.68
PK	534.4M	38.37	46.00	-7.63	-0.35	3	Horizontal	0	1.00	-	38.72	23.65	3.92	27.92
PK	668.26M	34.10	46.00	-11.90	0.56	3	Horizontal	0	1.00	-	33.54	24.09	4.45	27.98
PK	718.7M	40.45	46.00	-5.55	1.23	3	Horizontal	0	1.00	-	39.22	24.44	4.62	27.83



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
Zigbee	Pass	AV	2.4835G	53.42	54.00	-0.58	3	Horizontal	349	1.59



Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
Zigbee	-	-	-	-	-	-	-	-	-	-
2405MHz	Pass	AV	2.3838G	46.67	54.00	-7.33	3	Vertical	0	2.96
2405MHz	Pass	AV	2.405G	97.42	Inf	-Inf	3	Vertical	0	2.96
2405MHz	Pass	PK	2.3822G	59.05	74.00	-14.95	3	Vertical	0	2.96
2405MHz	Pass	PK	2.4056G	101.19	Inf	-Inf	3	Vertical	0	2.96
2405MHz	Pass	AV	2.366G	47.16	54.00	-6.84	3	Horizontal	342	1.44
2405MHz	Pass	AV	2.405G	106.17	Inf	-Inf	3	Horizontal	342	1.44
2405MHz	Pass	PK	2.3664G	58.91	74.00	-15.09	3	Horizontal	342	1.44
2405MHz	Pass	PK	2.4054G	109.90	Inf	-Inf	3	Horizontal	342	1.44
2405MHz	Pass	AV	4.81213G	32.00	54.00	-22.00	3	Vertical	352	1.50
2405MHz	Pass	PK	4.80854G	44.29	74.00	-29.71	3	Vertical	352	1.50
2405MHz	Pass	AV	4.80883G	32.16	54.00	-21.84	3	Horizontal	0	1.34
2405MHz	Pass	PK	4.81096G	45.33	74.00	-28.67	3	Horizontal	0	1.34
2440MHz	Pass	AV	2.3404G	46.72	54.00	-7.28	3	Vertical	360	2.93
2440MHz	Pass	AV	2.44G	97.69	Inf	-Inf	3	Vertical	360	2.93
2440MHz	Pass	AV	2.4968G	47.57	54.00	-6.43	3	Vertical	360	2.93
2440MHz	Pass	PK	2.3608G	58.51	74.00	-15.49	3	Vertical	360	2.93
2440MHz	Pass	PK	2.4404G	101.42	Inf	-Inf	3	Vertical	360	2.93
2440MHz	Pass	PK	2.4844G	59.00	74.00	-15.00	3	Vertical	360	2.93
2440MHz	Pass	AV	2.3732G	46.67	54.00	-7.33	3	Horizontal	344	1.90
2440MHz	Pass	AV	2.44G	105.31	Inf	-Inf	3	Horizontal	344	1.90
2440MHz	Pass	AV	2.4976G	47.31	54.00	-6.69	3	Horizontal	344	1.90
2440MHz	Pass	PK	2.3464G	58.64	74.00	-15.36	3	Horizontal	344	1.90
2440MHz	Pass	PK	2.4396G	109.06	Inf	-Inf	3	Horizontal	344	1.90
2440MHz	Pass	PK	2.4968G	60.21	74.00	-13.79	3	Horizontal	344	1.90
2440MHz	Pass	AV	4.88043G	32.13	54.00	-21.87	3	Vertical	0	2.26
2440MHz	Pass	AV	7.31859G	41.62	54.00	-12.38	3	Vertical	197	2.79
2440MHz	Pass	PK	4.87908G	44.93	74.00	-29.07	3	Vertical	0	2.26
2440MHz	Pass	PK	7.31863G	51.45	74.00	-22.55	3	Vertical	197	2.79
2440MHz	Pass	AV	4.88186G	32.05	54.00	-21.95	3	Horizontal	84	1.50
2440MHz	Pass	AV	7.32208G	38.90	54.00	-15.10	3	Horizontal	48	2.26
2440MHz	Pass	PK	4.87759G	45.02	74.00	-28.98	3	Horizontal	84	1.50
2440MHz	Pass	PK	7.32154G	50.70	74.00	-23.30	3	Horizontal	48	2.26
2475MHz	Pass	AV	2.475G	97.85	Inf	-Inf	3	Vertical	23	2.04
2475MHz	Pass	AV	2.4978G	47.31	54.00	-6.69	3	Vertical	23	2.04
2475MHz	Pass	PK	2.4744G	101.71	Inf	-Inf	3	Vertical	23	2.04
2475MHz	Pass	PK	2.498G	59.97	74.00	-14.03	3	Vertical	23	2.04
2475MHz	Pass	AV	2.475G	105.35	Inf	-Inf	3	Horizontal	351	2.05
2475MHz	Pass	AV	2.4835G	48.28	54.00	-5.72	3	Horizontal	351	2.05
2475MHz	Pass	PK	2.4744G	109.09	Inf	-Inf	3	Horizontal	351	2.05
2475MHz	Pass	PK	2.4858G	60.11	74.00	-13.89	3	Horizontal	351	2.05
2475MHz	Pass	AV	4.9488G	32.43	54.00	-21.57	3	Vertical	177	1.50
2475MHz	Pass	AV	7.42646G	40.34	54.00	-13.66	3	Vertical	95	2.25
2475MHz	Pass	PK	4.95069G	45.32	74.00	-28.68	3	Vertical	177	1.50
2475MHz	Pass	PK	7.42658G	52.54	74.00	-21.46	3	Vertical	95	2.25
2475MHz	Pass	AV	4.95132G	32.25	54.00	-21.75	3	Horizontal	41	1.78
2475MHz	Pass	AV	7.42658G	38.03	54.00	-15.97	3	Horizontal	166	1.31
2475MHz	Pass	PK	4.95237G	45.48	74.00	-28.52	3	Horizontal	41	1.78
2475MHz	Pass	PK	7.42622G	50.79	74.00	-23.21	3	Horizontal	166	1.31
2480MHz	Pass	AV	2.48G	93.80	Inf	-Inf	3	Vertical	24	1.97
2480MHz	Pass	AV	2.4835G	48.98	54.00	-5.02	3	Vertical	24	1.97
2480MHz	Pass	PK	2.4806G	97.61	Inf	-Inf	3	Vertical	24	1.97
2480MHz	Pass	PK	2.4842G	60.24	74.00	-13.76	3	Vertical	24	1.97
2480MHz	Pass	AV	2.48G	102.03	Inf	-Inf	3	Horizontal	349	1.59
2480MHz	Pass	AV	2.4835G	53.42	54.00	-0.58	3	Horizontal	349	1.59
2480MHz	Pass	PK	2.4804G	105.74	Inf	-Inf	3	Horizontal	349	1.59
2480MHz	Pass	PK	2.4835G	63.77	74.00	-10.23	3	Horizontal	349	1.59
2480MHz	Pass	AV	4.9619G	32.66	54.00	-21.34	3	Vertical	339	1.50
2480MHz	Pass	AV	7.43979G	37.52	54.00	-16.48	3	Vertical	70	1.48
2480MHz	Pass	PK	4.95913G	45.67	74.00	-28.33	3	Vertical	339	1.50
2480MHz	Pass	PK	7.43894G	50.70	74.00	-23.30	3	Vertical	70	1.48



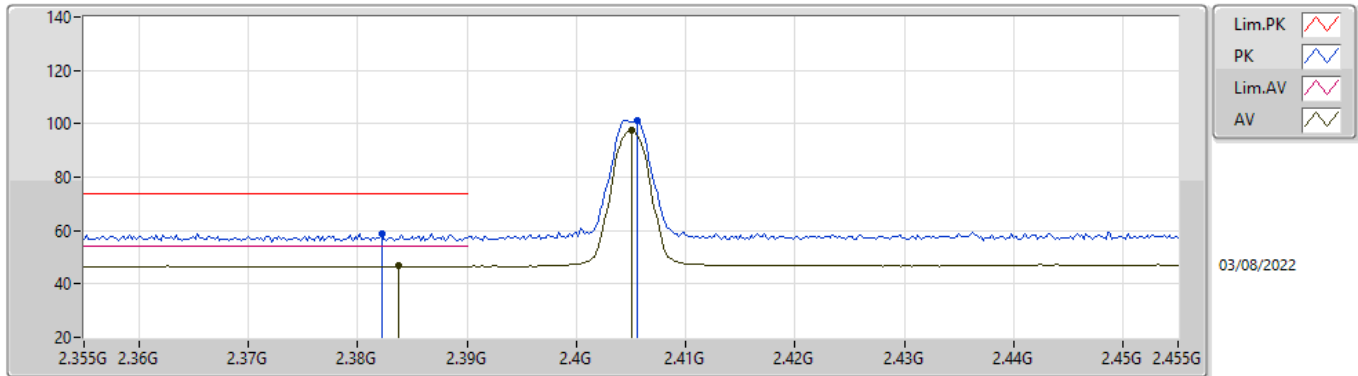
RSE TX above 1GHz

Appendix F.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2480MHz	Pass	AV	4.9608G	32.66	54.00	-21.34	3	Horizontal	255	1.04
2480MHz	Pass	AV	7.4396G	37.52	54.00	-16.48	3	Horizontal	24	1.50
2480MHz	Pass	PK	4.96248G	44.88	74.00	-29.12	3	Horizontal	255	1.04
2480MHz	Pass	PK	7.43866G	50.64	74.00	-23.36	3	Horizontal	24	1.50

2.4-2.4835GHz_Zigbee

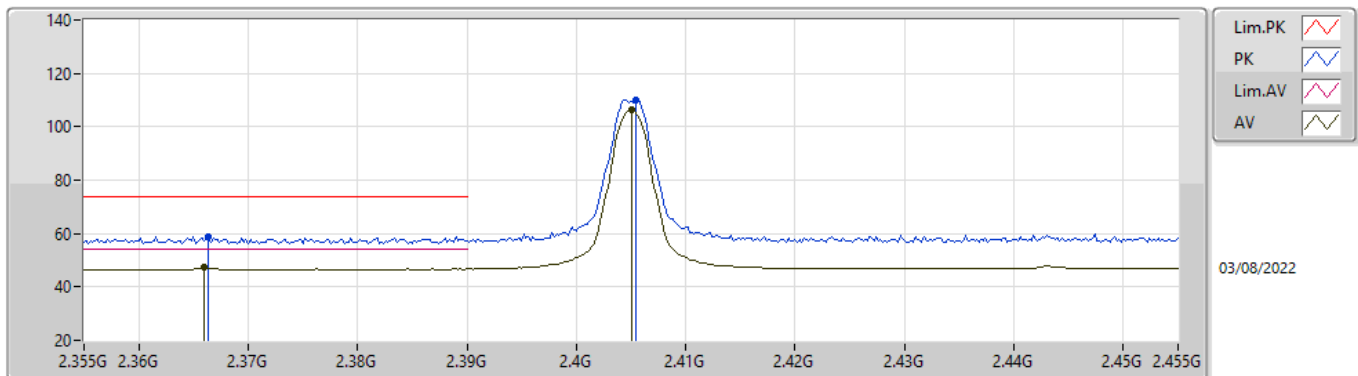
2405MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3838G	46.67	54.00	-7.33	31.85	3	Vertical	0	2.96	14.82	27.37	4.48	-
AV	2.405G	97.42	Inf	-Inf	31.89	3	Vertical	0	2.96	65.53	27.42	4.47	-
PK	2.3822G	59.05	74.00	-14.95	31.84	3	Vertical	0	2.96	27.21	27.36	4.48	-
PK	2.4056G	101.19	Inf	-Inf	31.89	3	Vertical	0	2.96	69.30	27.42	4.47	-

2.4-2.4835GHz_Zigbee

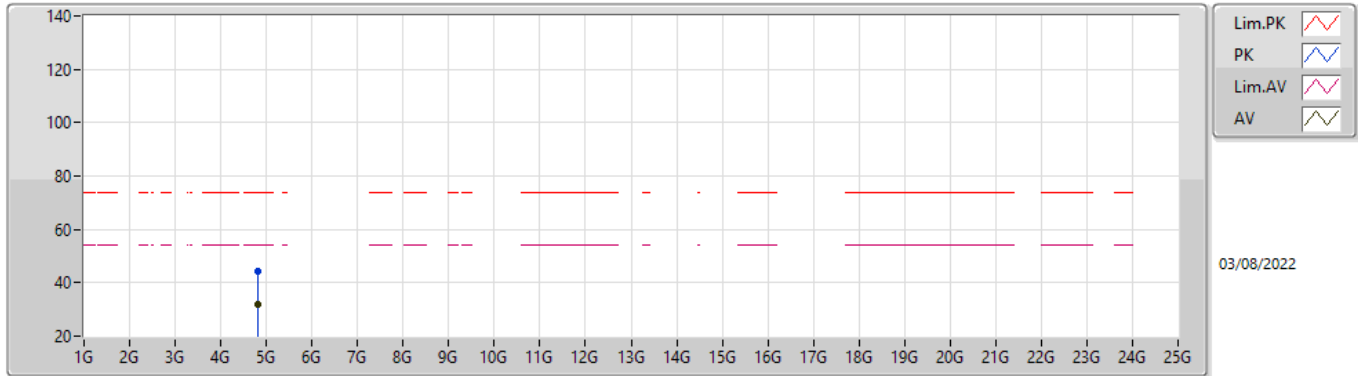
2405MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.366G	47.16	54.00	-6.84	31.82	3	Horizontal	342	1.44	15.34	27.33	4.49	-
AV	2.405G	106.17	Inf	-Inf	31.89	3	Horizontal	342	1.44	74.28	27.42	4.47	-
PK	2.3664G	58.91	74.00	-15.09	31.82	3	Horizontal	342	1.44	27.09	27.33	4.49	-
PK	2.4054G	109.90	Inf	-Inf	31.89	3	Horizontal	342	1.44	78.01	27.42	4.47	-

2.4-2.4835GHz_Zigbee

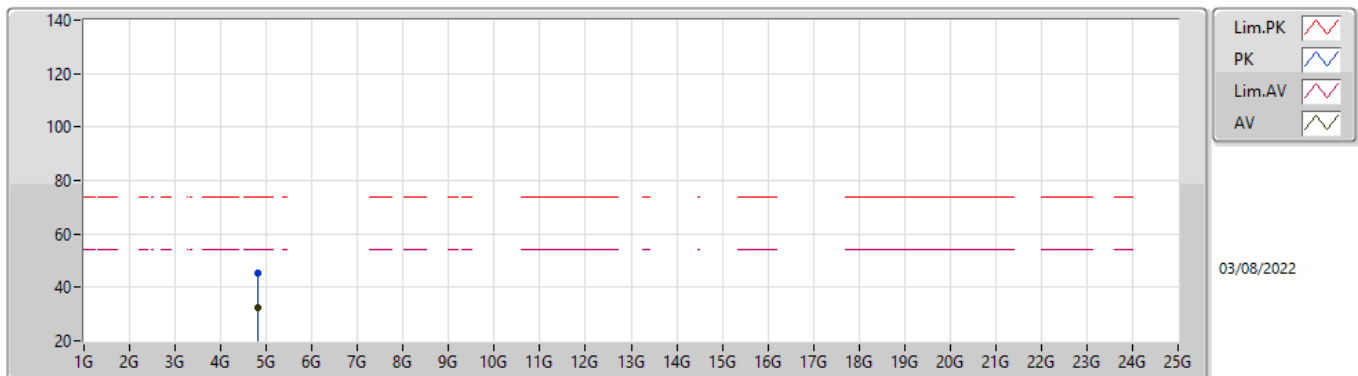
2405MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.81213G	32.00	54.00	-22.00	5.16	3	Vertical	352	1.50	26.84	32.55	6.90	34.29
PK	4.80854G	44.29	74.00	-29.71	5.14	3	Vertical	352	1.50	39.15	32.53	6.90	34.29

2.4-2.4835GHz_Zigbee

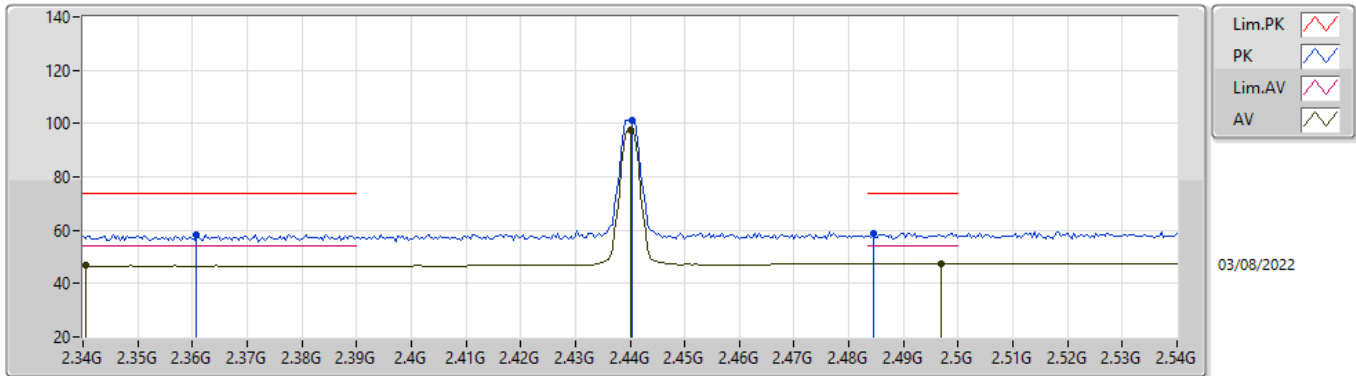
2405MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80883G	32.16	54.00	-21.84	5.15	3	Horizontal	0	1.34	27.01	32.54	6.90	34.29
PK	4.81096G	45.33	74.00	-28.67	5.15	3	Horizontal	0	1.34	40.18	32.54	6.90	34.29

2.4-2.4835GHz_Zigbee

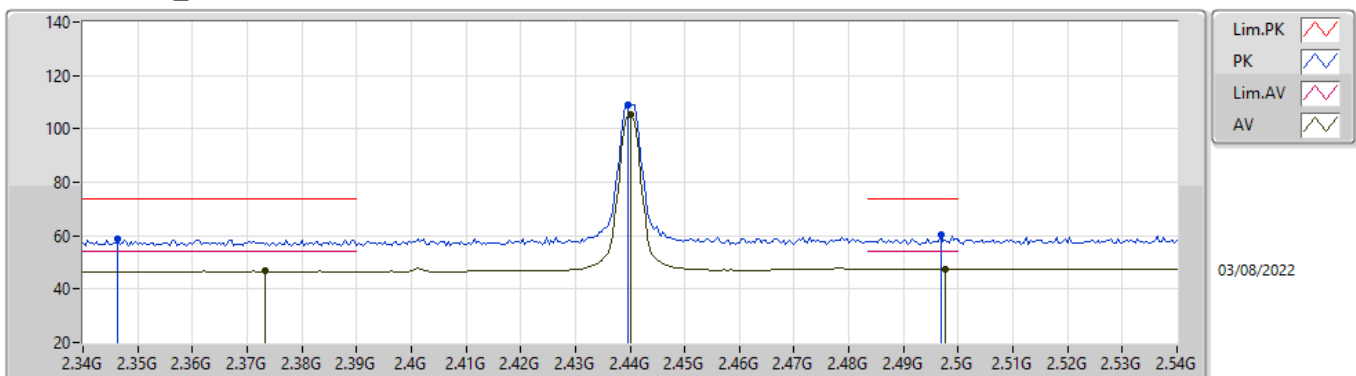
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3404G	46.72	54.00	-7.28	31.77	3	Vertical	360	2.93	14.95	27.26	4.51	-
AV	2.44G	97.69	Inf	-Inf	32.04	3	Vertical	360	2.93	65.65	27.56	4.48	-
AV	2.4968G	47.57	54.00	-6.43	32.36	3	Vertical	360	2.93	15.21	27.88	4.48	-
PK	2.3608G	58.51	74.00	-15.49	31.81	3	Vertical	360	2.93	26.70	27.32	4.49	-
PK	2.4404G	101.42	Inf	-Inf	32.04	3	Vertical	360	2.93	69.38	27.56	4.48	-
PK	2.4844G	59.00	74.00	-15.00	32.29	3	Vertical	360	2.93	26.71	27.81	4.48	-

2.4-2.4835GHz_Zigbee

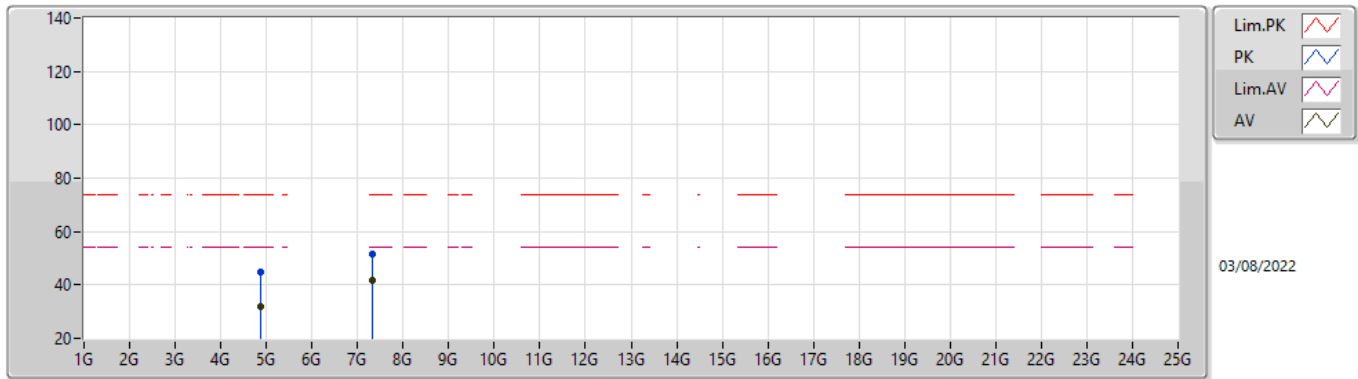
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3732G	46.67	54.00	-7.33	31.84	3	Horizontal	344	1.90	14.83	27.35	4.49	-
AV	2.44G	105.31	Inf	-Inf	32.04	3	Horizontal	344	1.90	73.27	27.56	4.48	-
AV	2.4976G	47.31	54.00	-6.69	32.37	3	Horizontal	344	1.90	14.94	27.89	4.48	-
PK	2.3464G	58.64	74.00	-15.36	31.79	3	Horizontal	344	1.90	26.85	27.29	4.50	-
PK	2.4396G	109.06	Inf	-Inf	32.04	3	Horizontal	344	1.90	77.02	27.56	4.48	-
PK	2.4968G	60.21	74.00	-13.79	32.36	3	Horizontal	344	1.90	27.85	27.88	4.48	-

2.4-2.4835GHz_Zigbee

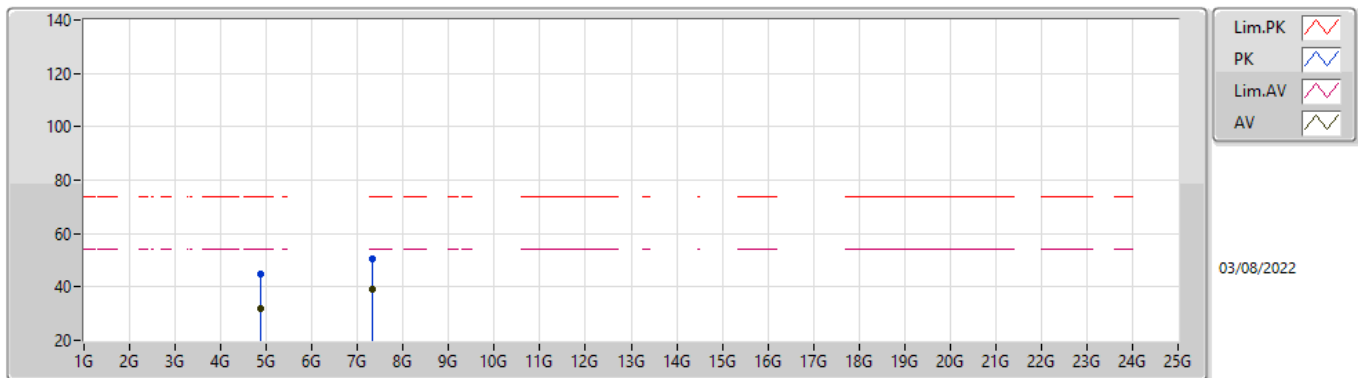
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.88043G	32.13	54.00	-21.87	5.38	3	Vertical	0	2.26	26.75	32.76	6.90	34.28
AV	7.31859G	41.62	54.00	-12.38	10.51	3	Vertical	197	2.79	31.11	36.77	8.54	34.80
PK	4.87908G	44.93	74.00	-29.07	5.38	3	Vertical	0	2.26	39.55	32.76	6.90	34.28
PK	7.31863G	51.45	74.00	-22.55	10.51	3	Vertical	197	2.79	40.94	36.77	8.54	34.80

2.4-2.4835GHz_Zigbee

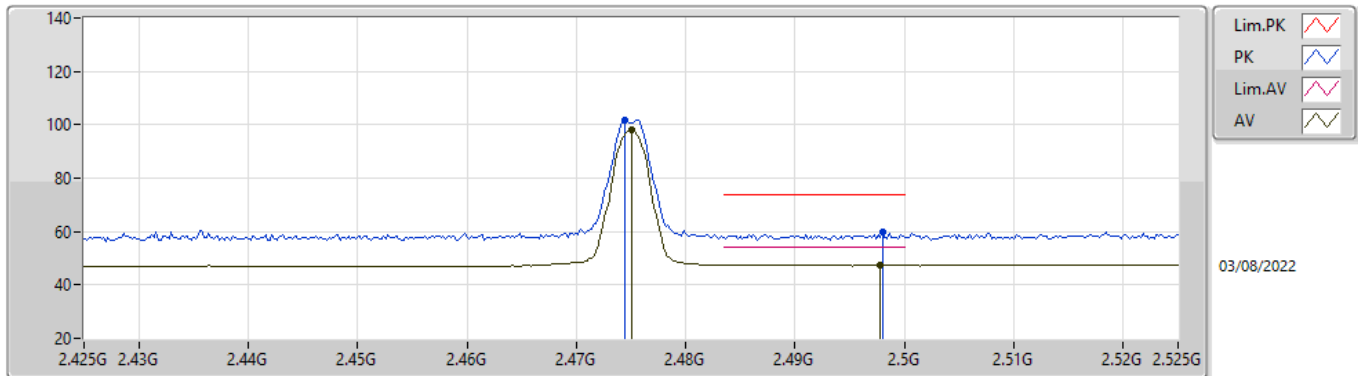
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.88186G	32.05	54.00	-21.95	5.38	3	Horizontal	84	1.50	26.67	32.76	6.90	34.28
AV	7.32208G	38.90	54.00	-15.10	10.52	3	Horizontal	48	2.26	28.38	36.79	8.54	34.81
PK	4.87759G	45.02	74.00	-28.98	5.38	3	Horizontal	84	1.50	39.64	32.76	6.90	34.28
PK	7.32154G	50.70	74.00	-23.30	10.52	3	Horizontal	48	2.26	40.18	36.79	8.54	34.81

2.4-2.4835GHz_Zigbee

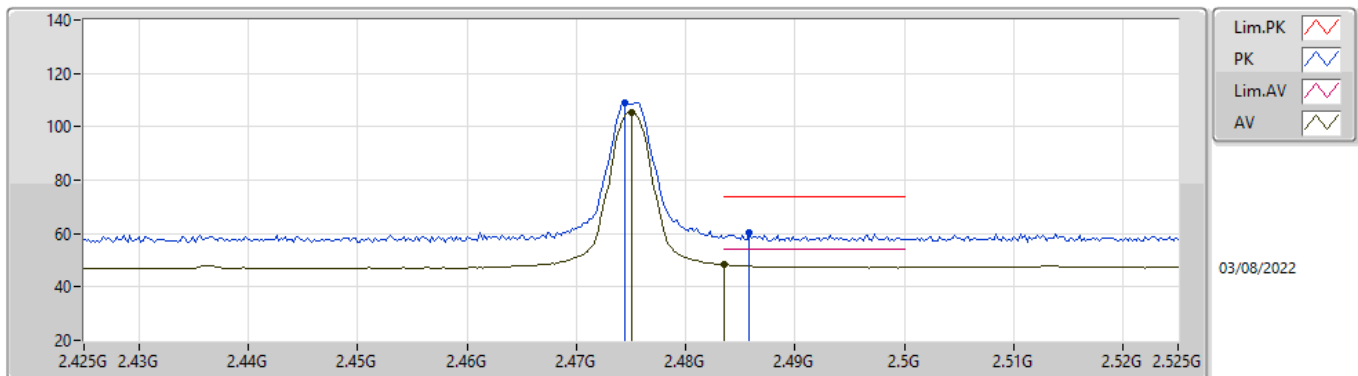
2475MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.475G	97.85	Inf	-Inf	32.23	3	Vertical	23	2.04	65.62	27.75	4.48	-
AV	2.4978G	47.31	54.00	-6.69	32.37	3	Vertical	23	2.04	14.94	27.89	4.48	-
PK	2.4744G	101.71	Inf	-Inf	32.23	3	Vertical	23	2.04	69.48	27.75	4.48	-
PK	2.498G	59.97	74.00	-14.03	32.37	3	Vertical	23	2.04	27.60	27.89	4.48	-

2.4-2.4835GHz_Zigbee

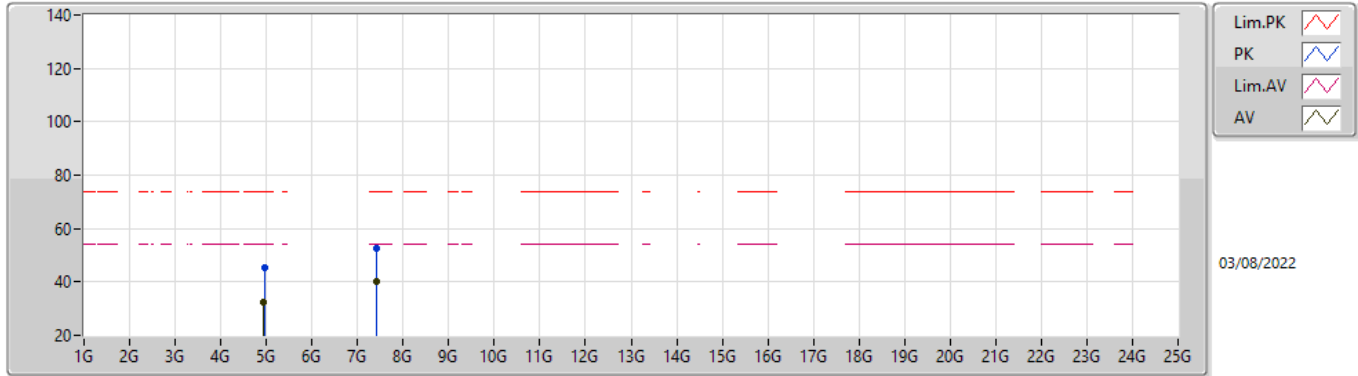
2475MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.475G	105.35	Inf	-Inf	32.23	3	Horizontal	351	2.05	73.12	27.75	4.48	-
AV	2.4835G	48.28	54.00	-5.72	32.28	3	Horizontal	351	2.05	16.00	27.80	4.48	-
PK	2.4744G	109.09	Inf	-Inf	32.23	3	Horizontal	351	2.05	76.86	27.75	4.48	-
PK	2.4858G	60.11	74.00	-13.89	32.29	3	Horizontal	351	2.05	27.82	27.81	4.48	-

2.4-2.4835GHz_Zigbee

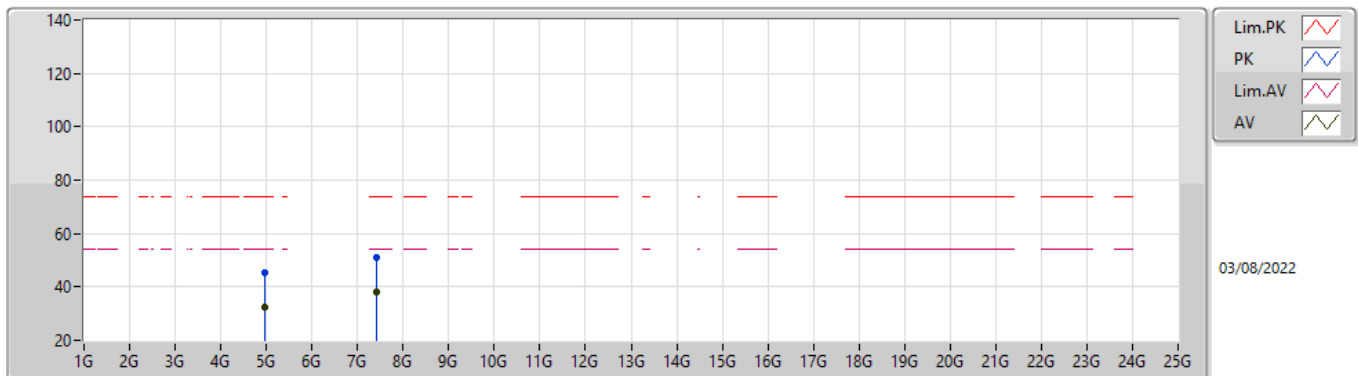
2475MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.9488G	32.43	54.00	-21.57	5.72	3	Vertical	177	1.50	26.71	33.09	6.91	34.28
AV	7.42646G	40.34	54.00	-13.66	10.42	3	Vertical	95	2.25	29.92	36.60	8.64	34.82
PK	4.95069G	45.32	74.00	-28.68	5.73	3	Vertical	177	1.50	39.59	33.10	6.91	34.28
PK	7.42658G	52.54	74.00	-21.46	10.42	3	Vertical	95	2.25	42.12	36.60	8.64	34.82

2.4-2.4835GHz_Zigbee

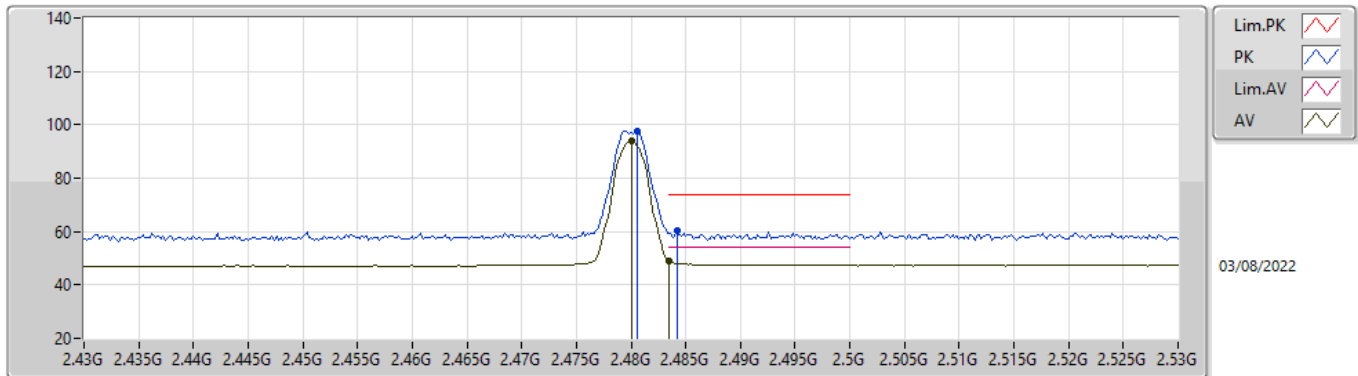
2475MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.95132G	32.25	54.00	-21.75	5.74	3	Horizontal	41	1.78	26.51	33.11	6.91	34.28
AV	7.42658G	38.03	54.00	-15.97	10.42	3	Horizontal	166	1.31	27.61	36.60	8.64	34.82
PK	4.95237G	45.48	74.00	-28.52	5.74	3	Horizontal	41	1.78	39.74	33.11	6.91	34.28
PK	7.42622G	50.79	74.00	-23.21	10.42	3	Horizontal	166	1.31	40.37	36.60	8.64	34.82

2.4-2.4835GHz_Zigbee

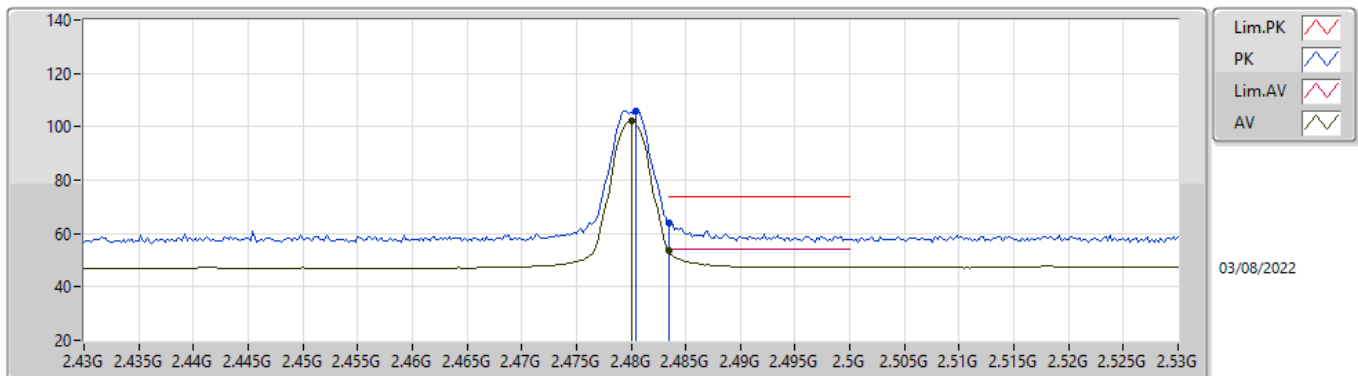
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	93.80	Inf	-Inf	32.26	3	Vertical	24	1.97	61.54	27.78	4.48	-
AV	2.4835G	48.98	54.00	-5.02	32.28	3	Vertical	24	1.97	16.70	27.80	4.48	-
PK	2.4806G	97.61	Inf	-Inf	32.26	3	Vertical	24	1.97	65.35	27.78	4.48	-
PK	2.4842G	60.24	74.00	-13.76	32.29	3	Vertical	24	1.97	27.95	27.81	4.48	-

2.4-2.4835GHz_Zigbee

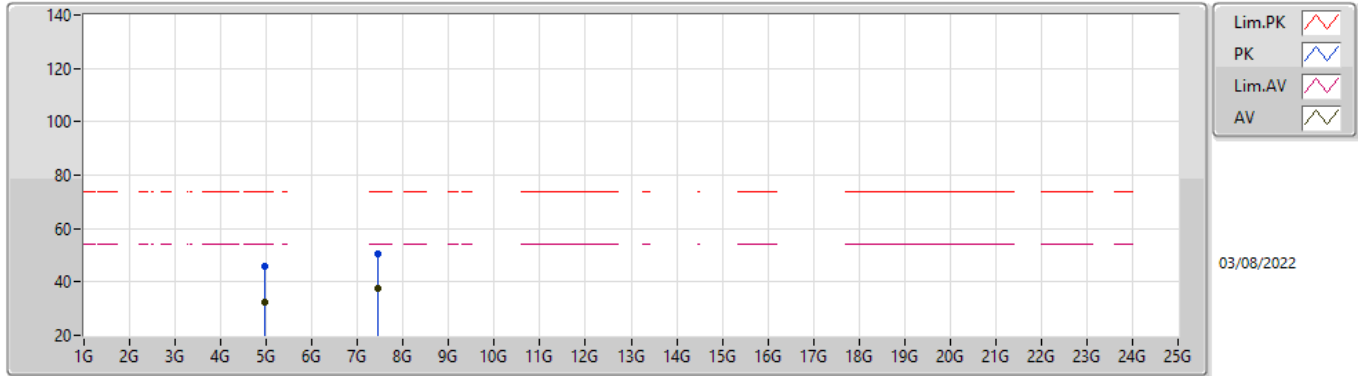
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	102.03	Inf	-Inf	32.26	3	Horizontal	349	1.59	69.77	27.78	4.48	-
AV	2.4835G	53.42	54.00	-0.58	32.28	3	Horizontal	349	1.59	21.14	27.80	4.48	-
PK	2.4804G	105.74	Inf	-Inf	32.26	3	Horizontal	349	1.59	73.48	27.78	4.48	-
PK	2.4835G	63.77	74.00	-10.23	32.28	3	Horizontal	349	1.59	31.49	27.80	4.48	-

2.4-2.4835GHz_Zigbee

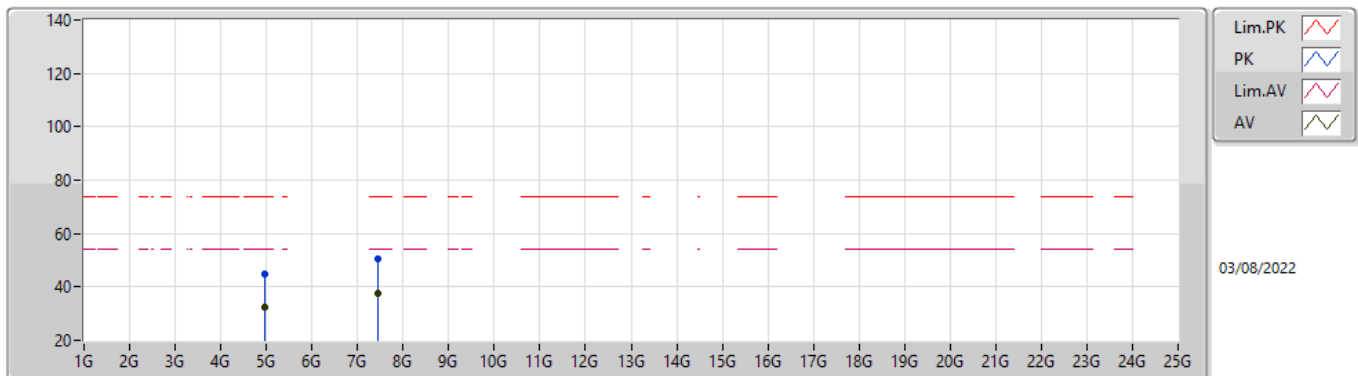
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.9619G	32.66	54.00	-21.34	5.79	3	Vertical	339	1.50	26.87	33.15	6.91	34.27
AV	7.43979G	37.52	54.00	-16.48	10.43	3	Vertical	70	1.48	27.09	36.60	8.65	34.82
PK	4.95913G	45.67	74.00	-28.33	5.78	3	Vertical	339	1.50	39.89	33.14	6.91	34.27
PK	7.43894G	50.70	74.00	-23.30	10.43	3	Vertical	70	1.48	40.27	36.60	8.65	34.82

2.4-2.4835GHz_Zigbee

2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.9608G	32.66	54.00	-21.34	5.78	3	Horizontal	255	1.04	26.88	33.14	6.91	34.27
AV	7.4396G	37.52	54.00	-16.48	10.43	3	Horizontal	24	1.50	27.09	36.60	8.65	34.82
PK	4.96248G	44.88	74.00	-29.12	5.79	3	Horizontal	255	1.04	39.09	33.15	6.91	34.27
PK	7.43866G	50.64	74.00	-23.36	10.43	3	Horizontal	24	1.50	40.21	36.60	8.65	34.82



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	4.875G	50.75	54.00	-3.25	Vertical
Mode 2	Pass	AV	1.07097G	44.75	54.00	-9.25	Vertical
Mode 3	Pass	PK	3.21352G	56.71	68.20	-11.49	Vertical
Mode 4	Pass	AV	4.876G	50.12	54.00	-3.88	Vertical
Mode 5	Pass	AV	1.06G	44.54	54.00	-9.46	Vertical
Mode 6	Pass	AV	1.06G	43.38	54.00	-10.62	Vertical
Mode 7	Pass	AV	1.06G	45.42	54.00	-8.58	Vertical
Mode 8	Pass	AV	1.06G	45.74	54.00	-8.26	Vertical



Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
Mode 1	Pass	AV	1.07G	45.45	54.00	-8.55	3	Vertical	333	3.00	-
Mode 1	Pass	AV	1.235G	40.77	54.00	-13.23	3	Vertical	360	2.95	-
Mode 1	Pass	AV	1.605G	34.50	54.00	-19.50	3	Vertical	187	1.56	-
Mode 1	Pass	AV	4.875G	50.75	54.00	-3.25	3	Vertical	338	2.57	-
Mode 1	Pass	PK	1.07G	48.50	74.00	-25.50	3	Vertical	333	3.00	-
Mode 1	Pass	PK	1.235G	54.70	74.00	-19.30	3	Vertical	360	2.95	-
Mode 1	Pass	PK	1.605G	48.50	74.00	-25.50	3	Vertical	187	1.56	-
Mode 1	Pass	PK	4.875G	52.25	74.00	-21.75	3	Vertical	338	2.57	-
Mode 1	Pass	AV	1.066G	45.39	54.00	-8.61	3	Horizontal	19	2.88	-
Mode 1	Pass	AV	2.14G	42.62	68.20	-25.58	3	Horizontal	322	1.82	-
Mode 1	Pass	AV	3.214G	40.93	68.20	-27.27	3	Horizontal	319	1.00	-
Mode 1	Pass	AV	4.876G	50.16	54.00	-3.84	3	Horizontal	60	2.52	-
Mode 1	Pass	PK	1.066G	52.62	74.00	-21.38	3	Horizontal	19	2.88	-
Mode 1	Pass	PK	2.14G	47.79	68.20	-20.41	3	Horizontal	322	1.82	-
Mode 1	Pass	PK	3.214G	49.89	68.20	-18.31	3	Horizontal	319	1.00	-
Mode 1	Pass	PK	4.876G	51.47	74.00	-22.53	3	Horizontal	60	2.52	-
Mode 2	Pass	AV	1.07097G	44.75	54.00	-9.25	3	Vertical	354	1.55	-
Mode 2	Pass	AV	1.23691G	41.13	54.00	-12.87	3	Vertical	301	2.82	-
Mode 2	Pass	AV	2.4377G	44.21	68.20	-23.99	3	Vertical	356	1.04	-
Mode 2	Pass	PK	1.07097G	47.92	74.00	-26.08	3	Vertical	354	1.55	-
Mode 2	Pass	PK	1.23691G	51.29	74.00	-22.71	3	Vertical	301	2.82	-
Mode 2	Pass	PK	2.4377G	47.74	68.20	-20.46	3	Vertical	356	1.04	-
Mode 2	Pass	PK	1.07106G	47.63	74.00	-26.37	3	Horizontal	42.8	1.35	-
Mode 2	Pass	PK	2.43777G	52.78	68.20	-15.42	3	Horizontal	236	1.49	-
Mode 2	Pass	PK	5.18531G	55.57	68.20	-12.63	3	Horizontal	124	3.00	-
Mode 2	Pass	AV	1.07106G	43.91	54.00	-10.09	3	Horizontal	42.8	1.35	-
Mode 2	Pass	AV	2.43777G	41.68	68.20	-26.52	3	Horizontal	236	1.49	-
Mode 2	Pass	AV	5.18531G	47.61	68.20	-20.59	3	Horizontal	124	3.00	-
Mode 3	Pass	AV	1.07097G	40.51	54.00	-13.49	3	Vertical	255	1.15	-
Mode 3	Pass	AV	1.24296G	37.45	68.20	-30.75	3	Vertical	266	1.20	-
Mode 3	Pass	AV	1.33658G	27.01	54.00	-26.99	3	Vertical	243	1.60	-
Mode 3	Pass	AV	3.2128G	36.91	68.20	-31.29	3	Vertical	202	3.00	-
Mode 3	Pass	PK	1.07122G	49.65	74.00	-24.35	3	Vertical	255	1.15	-
Mode 3	Pass	PK	1.24364G	56.11	68.20	-12.09	3	Vertical	266	1.20	-
Mode 3	Pass	PK	1.33872G	49.74	74.00	-24.26	3	Vertical	243	1.60	-
Mode 3	Pass	PK	3.21352G	56.71	68.20	-11.49	3	Vertical	202	3.00	-
Mode 3	Pass	AV	1.07096G	36.08	54.00	-17.92	3	Horizontal	191	1.92	-
Mode 3	Pass	AV	1.24192G	34.36	68.20	-33.84	3	Horizontal	242	1.50	-
Mode 3	Pass	AV	3.208G	36.93	68.20	-31.27	3	Horizontal	196	1.49	-
Mode 3	Pass	PK	1.07092G	46.29	74.00	-27.71	3	Horizontal	191	1.92	-
Mode 3	Pass	PK	1.24328G	50.45	68.20	-17.75	3	Horizontal	242	1.50	-
Mode 3	Pass	PK	3.208G	47.74	68.20	-20.46	3	Horizontal	196	1.49	-
Mode 4	Pass	AV	1.06G	45.13	54.00	-8.87	3	Vertical	236	1.50	-
Mode 4	Pass	AV	1.24G	39.78	68.20	-28.42	3	Vertical	96	2.64	-
Mode 4	Pass	AV	1.468G	29.50	54.00	-24.50	3	Vertical	307	2.79	-
Mode 4	Pass	AV	4.876G	50.12	54.00	-3.88	3	Vertical	36	2.89	-
Mode 4	Pass	PK	1.06G	46.79	74.00	-27.21	3	Vertical	236	1.50	-
Mode 4	Pass	PK	1.24G	50.59	68.20	-17.61	3	Vertical	96	2.64	-
Mode 4	Pass	PK	1.468G	50.75	74.00	-23.25	3	Vertical	307	2.79	-
Mode 4	Pass	PK	4.876G	54.64	74.00	-19.36	3	Vertical	36	2.89	-

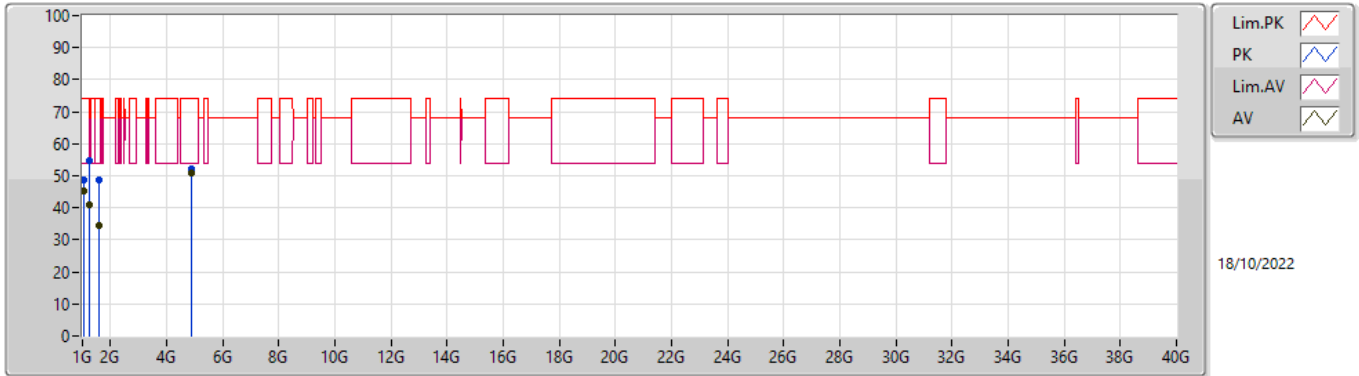


Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
Mode 4	Pass	AV	1.06G	35.78	54.00	-18.22	3	Horizontal	194	2.02	-
Mode 4	Pass	AV	1.24G	34.70	68.20	-33.50	3	Horizontal	260	2.99	-
Mode 4	Pass	AV	4.876G	43.76	54.00	-10.24	3	Horizontal	360	2.99	-
Mode 4	Pass	PK	1.06G	43.51	74.00	-30.49	3	Horizontal	194	2.02	-
Mode 4	Pass	PK	1.24G	48.68	68.20	-19.52	3	Horizontal	260	2.99	-
Mode 4	Pass	PK	4.876G	47.05	74.00	-26.95	3	Horizontal	360	2.99	-
Mode 5	Pass	AV	1.06G	44.54	54.00	-9.46	3	Vertical	238	1.48	-
Mode 5	Pass	AV	1.24G	37.53	68.20	-30.67	3	Vertical	129	2.60	-
Mode 5	Pass	AV	3.208G	37.45	68.20	-30.75	3	Vertical	0	2.87	-
Mode 5	Pass	PK	1.06G	47.84	74.00	-26.16	3	Vertical	238	1.48	-
Mode 5	Pass	PK	1.24G	50.65	68.20	-17.55	3	Vertical	129	2.60	-
Mode 5	Pass	PK	3.208G	46.77	68.20	-21.43	3	Vertical	0	2.87	-
Mode 5	Pass	AV	1.06G	36.64	54.00	-17.36	3	Horizontal	192	2.06	-
Mode 5	Pass	AV	1.228G	33.12	54.00	-20.88	3	Horizontal	227	2.59	-
Mode 5	Pass	AV	3.22G	35.04	68.20	-33.16	3	Horizontal	360	2.80	-
Mode 5	Pass	PK	1.06G	44.19	74.00	-29.81	3	Horizontal	192	2.06	-
Mode 5	Pass	PK	1.228G	47.78	74.00	-26.22	3	Horizontal	227	2.59	-
Mode 5	Pass	PK	3.22G	47.68	68.20	-20.52	3	Horizontal	360	2.80	-
Mode 6	Pass	AV	1.06G	43.38	54.00	-10.62	3	Vertical	238	1.49	-
Mode 6	Pass	AV	1.24G	37.39	68.20	-30.81	3	Vertical	120	2.61	-
Mode 6	Pass	AV	3.208G	36.14	68.20	-32.06	3	Vertical	217	2.59	-
Mode 6	Pass	PK	1.06G	48.60	74.00	-25.40	3	Vertical	238	1.49	-
Mode 6	Pass	PK	1.24G	51.66	68.20	-16.54	3	Vertical	120	2.61	-
Mode 6	Pass	PK	3.208G	46.63	68.20	-21.57	3	Vertical	217	2.59	-
Mode 6	Pass	AV	1.06G	37.35	54.00	-16.65	3	Horizontal	189	1.50	-
Mode 6	Pass	AV	1.24G	32.54	68.20	-35.66	3	Horizontal	341	1.50	-
Mode 6	Pass	AV	3.388G	31.50	68.20	-36.70	3	Horizontal	345	1.50	-
Mode 6	Pass	PK	1.06G	44.19	74.00	-29.81	3	Horizontal	189	1.50	-
Mode 6	Pass	PK	1.24G	48.78	68.20	-19.42	3	Horizontal	341	1.50	-
Mode 6	Pass	PK	3.388G	45.31	68.20	-22.89	3	Horizontal	345	1.50	-
Mode 7	Pass	AV	1.06G	45.42	54.00	-8.58	3	Vertical	238	1.59	-
Mode 7	Pass	AV	1.24G	35.62	68.20	-32.58	3	Vertical	156	1.50	-
Mode 7	Pass	AV	1.6G	34.73	54.00	-19.27	3	Vertical	4	1.13	-
Mode 7	Pass	PK	1.06G	46.04	74.00	-27.96	3	Vertical	238	1.59	-
Mode 7	Pass	PK	1.24G	51.43	68.20	-16.77	3	Vertical	156	1.50	-
Mode 7	Pass	PK	1.6G	46.51	74.00	-27.49	3	Vertical	4	1.13	-
Mode 7	Pass	AV	1.06G	36.42	54.00	-17.58	3	Horizontal	194	1.92	-
Mode 7	Pass	AV	1.24G	35.13	68.20	-33.07	3	Horizontal	256	1.50	-
Mode 7	Pass	AV	3.208G	35.92	68.20	-32.28	3	Horizontal	198	1.88	-
Mode 7	Pass	PK	1.06G	42.39	74.00	-31.61	3	Horizontal	194	1.92	-
Mode 7	Pass	PK	1.24G	52.82	68.20	-15.38	3	Horizontal	256	1.50	-
Mode 7	Pass	PK	3.208G	46.50	68.20	-21.70	3	Horizontal	198	1.88	-
Mode 8	Pass	AV	1.06G	45.74	54.00	-8.26	3	Vertical	238	1.50	-
Mode 8	Pass	AV	1.24G	38.32	68.20	-29.88	3	Vertical	95	2.68	-
Mode 8	Pass	AV	3.22G	37.40	68.20	-30.80	3	Vertical	202	3.00	-
Mode 8	Pass	PK	1.06G	46.09	74.00	-27.91	3	Vertical	238	1.50	-
Mode 8	Pass	PK	1.24G	52.25	68.20	-15.95	3	Vertical	95	2.68	-
Mode 8	Pass	PK	3.22G	48.05	68.20	-20.15	3	Vertical	202	3.00	-
Mode 8	Pass	AV	1.06G	40.22	54.00	-13.78	3	Horizontal	121	2.70	-
Mode 8	Pass	AV	1.24G	36.18	68.20	-32.02	3	Horizontal	231	1.56	-



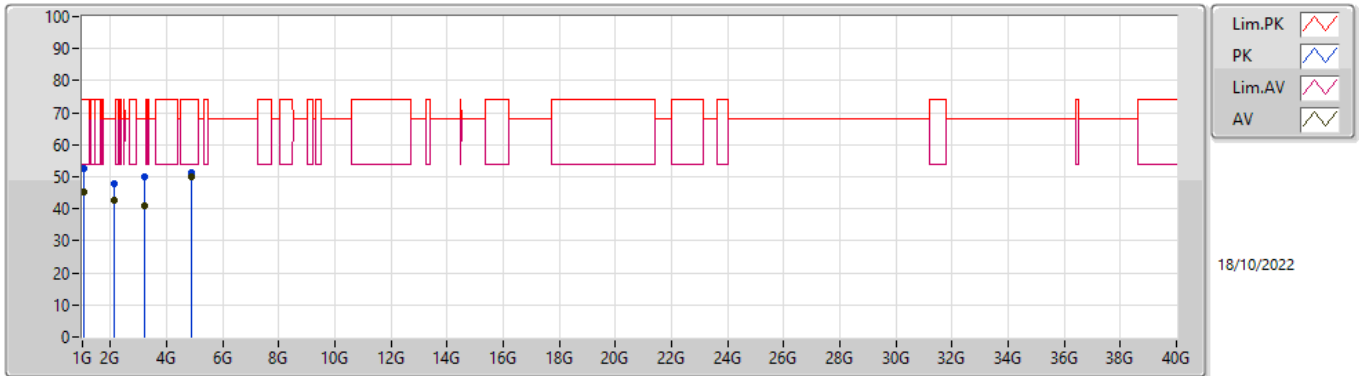
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
Mode 8	Pass	AV	3.208G	34.74	68.20	-33.46	3	Horizontal	191	1.25	-
Mode 8	Pass	PK	1.06G	43.70	74.00	-30.30	3	Horizontal	121	2.70	-
Mode 8	Pass	PK	1.24G	52.25	68.20	-15.95	3	Horizontal	231	1.56	-
Mode 8	Pass	PK	3.208G	49.48	68.20	-18.72	3	Horizontal	191	1.25	-

Radiated Emissions above 1GHz_Mode 1



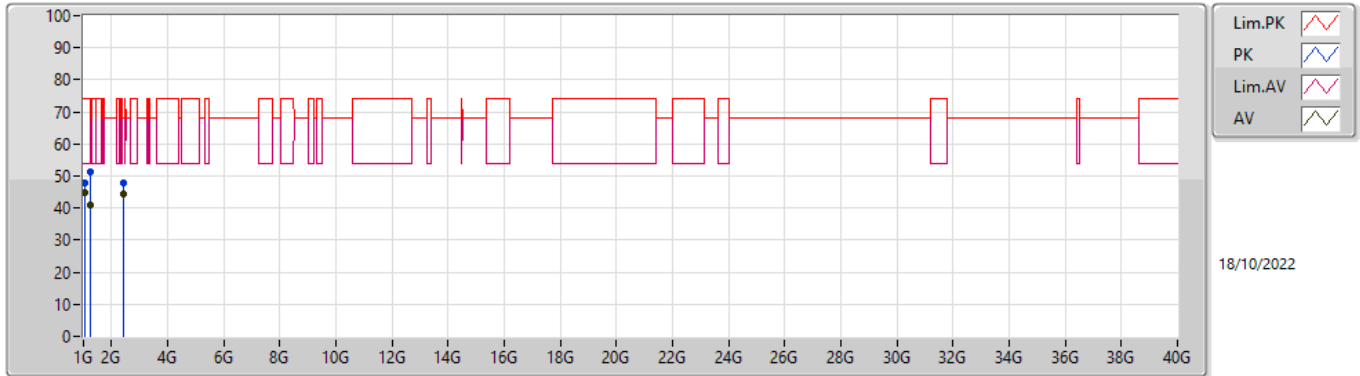
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.07G	45.45	54.00	-8.55	-2.78	3	Vertical	333	3.00	-	48.23	25.26	5.50	33.54
AV	1.235G	40.77	54.00	-13.23	-0.78	3	Vertical	360	2.95	-	41.55	26.03	6.00	32.81
AV	1.605G	34.50	54.00	-19.50	1.05	3	Vertical	187	1.56	-	33.45	25.48	7.08	31.51
AV	4.875G	50.75	54.00	-3.25	12.30	3	Vertical	338	2.57	-	38.45	32.60	9.70	30.00
PK	1.07G	48.50	74.00	-25.50	-2.78	3	Vertical	333	3.00	-	51.28	25.26	5.50	33.54
PK	1.235G	54.70	74.00	-19.30	-0.78	3	Vertical	360	2.95	-	55.48	26.03	6.00	32.81
PK	1.605G	48.50	74.00	-25.50	1.05	3	Vertical	187	1.56	-	47.45	25.48	7.08	31.51
PK	4.875G	52.25	74.00	-21.75	12.30	3	Vertical	338	2.57	-	39.95	32.60	9.70	30.00

Radiated Emissions above 1GHz_Mode 1



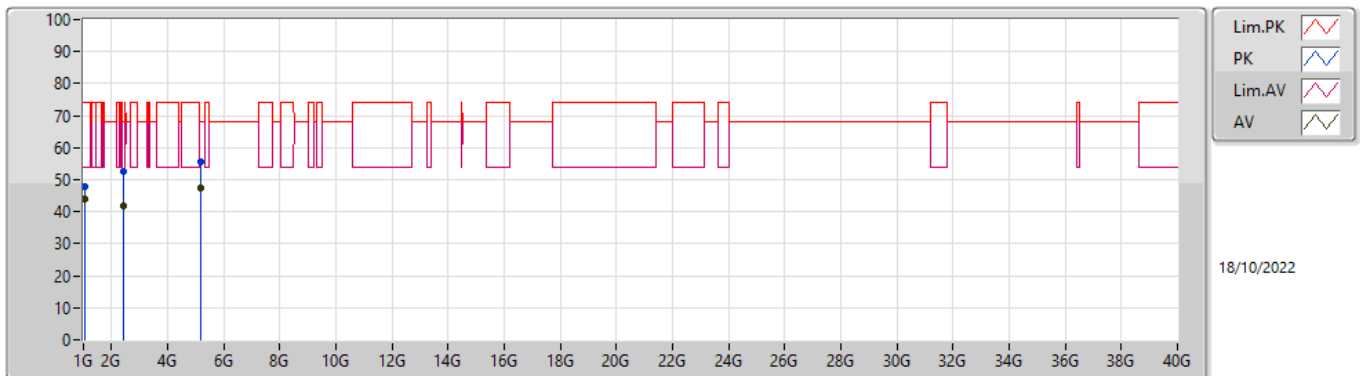
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.066G	45.39	54.00	-8.61	-2.84	3	Horizontal	19	2.88	-	48.23	25.23	5.49	33.56
AV	2.14G	42.62	68.20	-25.58	4.51	3	Horizontal	322	1.82	-	38.11	27.42	8.06	30.97
AV	3.214G	40.93	68.20	-27.27	8.05	3	Horizontal	319	1.00	-	32.88	29.77	8.86	30.58
AV	4.876G	50.16	54.00	-3.84	12.30	3	Horizontal	60	2.52	-	37.86	32.60	9.70	30.00
PK	1.066G	52.62	74.00	-21.38	-2.84	3	Horizontal	19	2.88	-	55.46	25.23	5.49	33.56
PK	2.14G	47.79	68.20	-20.41	4.51	3	Horizontal	322	1.82	-	43.28	27.42	8.06	30.97
PK	3.214G	49.89	68.20	-18.31	8.05	3	Horizontal	319	1.00	-	41.84	29.77	8.86	30.58
PK	4.876G	51.47	74.00	-22.53	12.30	3	Horizontal	60	2.52	-	39.17	32.60	9.70	30.00

Radiated Emissions above 1GHz_Mode 2



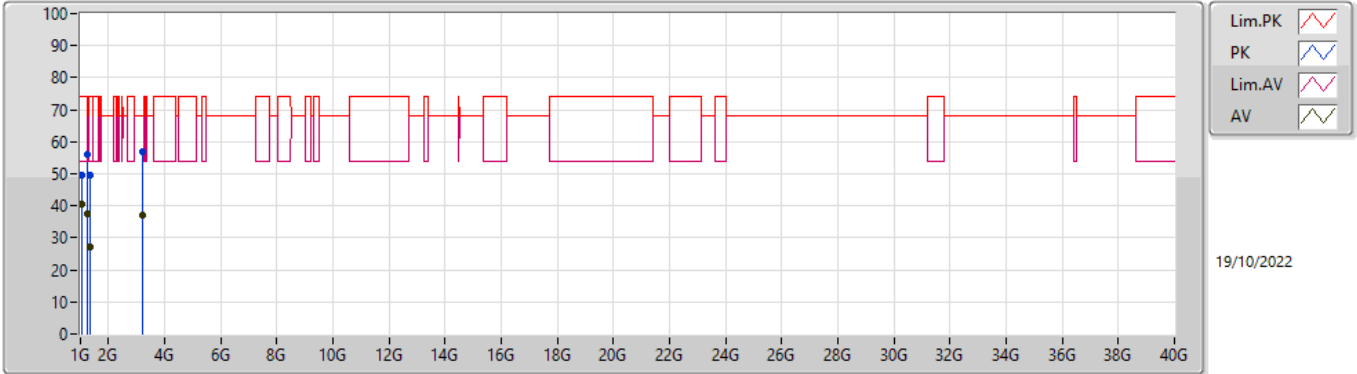
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.07097G	44.75	54.00	-9.25	-2.77	3	Vertical	354	1.55	-	47.52	25.27	5.50	33.54
AV	1.23691G	41.13	54.00	-12.87	-0.76	3	Vertical	301	2.82	-	41.89	26.03	6.01	32.80
AV	2.4377G	44.21	68.20	-23.99	5.16	3	Vertical	356	1.04	-	39.05	27.68	8.31	30.83
PK	1.07097G	47.92	74.00	-26.08	-2.77	3	Vertical	354	1.55	-	50.69	25.27	5.50	33.54
PK	1.23691G	51.29	74.00	-22.71	-0.76	3	Vertical	301	2.82	-	52.05	26.03	6.01	32.80
PK	2.4377G	47.74	68.20	-20.46	5.16	3	Vertical	356	1.04	-	42.58	27.68	8.31	30.83

Radiated Emissions above 1GHz_Mode 2



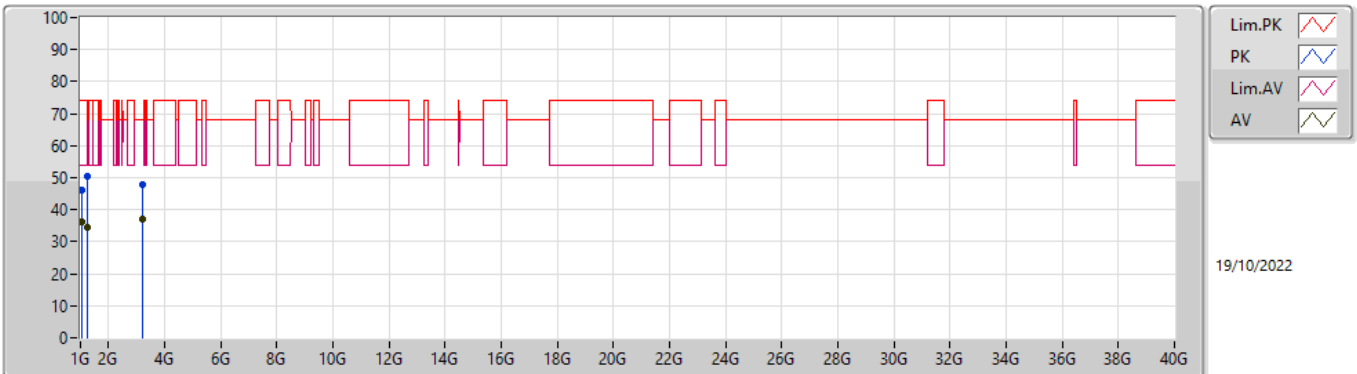
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	1.07106G	47.63	74.00	-26.37	-2.78	3	Horizontal	42.8	1.35	-	50.41	25.26	5.50	33.54
PK	2.43777G	52.78	68.20	-15.42	5.15	3	Horizontal	236	1.49	-	47.63	27.67	8.31	30.83
PK	5.18531G	55.57	68.20	-12.63	12.94	3	Horizontal	124	3.00	-	42.63	33.10	9.85	30.01
AV	1.07106G	43.91	54.00	-10.09	-2.77	3	Horizontal	42.8	1.35	-	46.68	25.27	5.50	33.54
AV	2.43777G	41.68	68.20	-26.52	5.16	3	Horizontal	236	1.49	-	36.52	27.68	8.31	30.83
AV	5.18531G	47.61	68.20	-20.59	12.94	3	Horizontal	124	3.00	-	34.67	33.10	9.85	30.01

Radiated Emissions above 1GHz_Mode 3



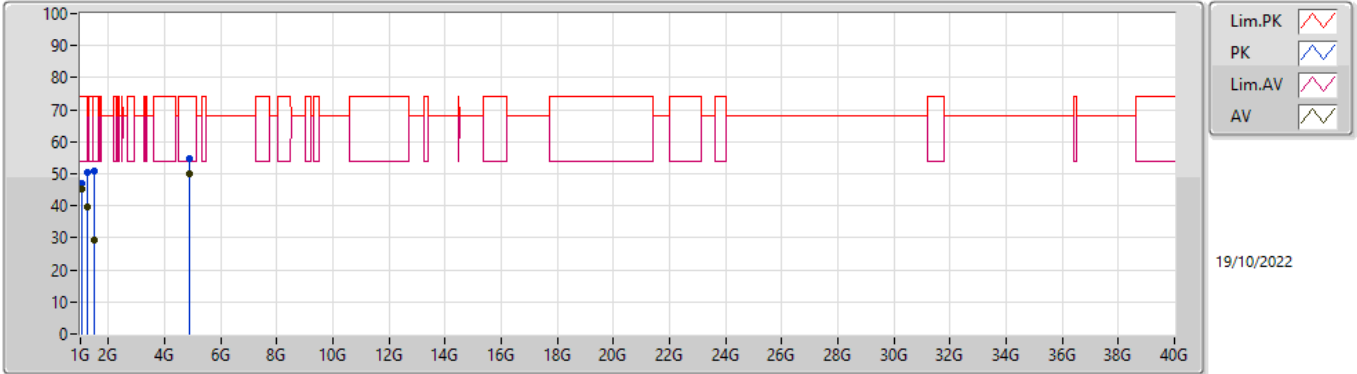
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.07097G	40.51	54.00	-13.49	-2.77	3	Vertical	255	1.15	-	43.28	25.27	5.50	33.54
AV	1.24296G	37.45	68.20	-30.75	-0.74	3	Vertical	266	1.20	-	38.19	26.01	6.03	32.78
AV	1.33658G	27.01	54.00	-26.99	-0.04	3	Vertical	243	1.60	-	27.05	25.99	6.33	32.36
AV	3.2128G	36.91	68.20	-31.29	8.05	3	Vertical	202	3.00	-	28.86	29.77	8.86	30.58
PK	1.07122G	49.65	74.00	-24.35	-2.77	3	Vertical	255	1.15	-	52.42	25.27	5.50	33.54
PK	1.24364G	56.11	68.20	-12.09	-0.73	3	Vertical	266	1.20	-	56.84	26.01	6.03	32.77
PK	1.33872G	49.74	74.00	-24.26	0.00	3	Vertical	243	1.60	-	49.74	26.01	6.34	32.35
PK	3.21352G	56.71	68.20	-11.49	8.05	3	Vertical	202	3.00	-	48.66	29.77	8.86	30.58

Radiated Emissions above 1GHz_Mode 3



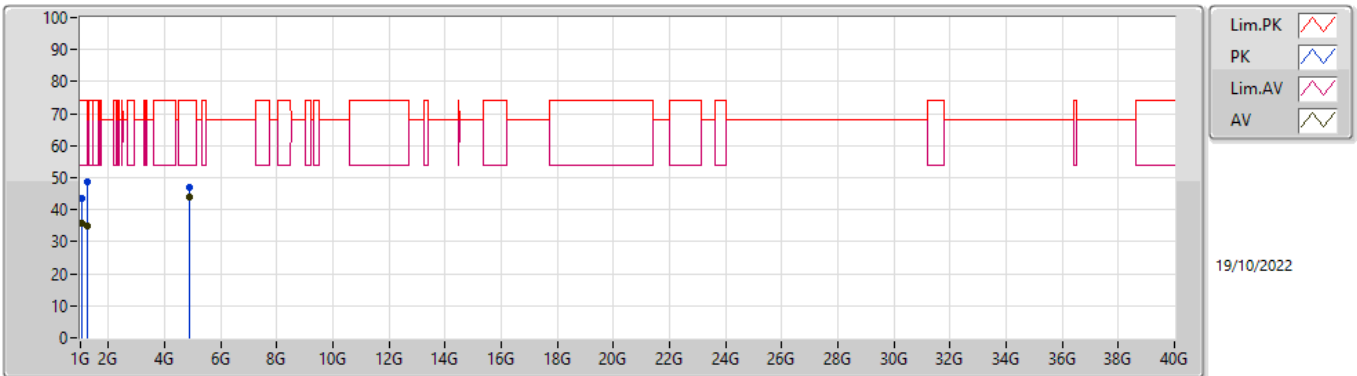
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.07096G	36.08	54.00	-17.92	-2.77	3	Horizontal	191	1.92	-	38.85	25.27	5.50	33.54
AV	1.24192G	34.36	68.20	-33.84	-0.73	3	Horizontal	242	1.50	-	35.09	26.02	6.03	32.78
AV	3.208G	36.93	68.20	-31.27	8.06	3	Horizontal	196	1.49	-	28.87	29.78	8.86	30.58
PK	1.07092G	46.29	74.00	-27.71	-2.77	3	Horizontal	191	1.92	-	49.06	25.27	5.50	33.54
PK	1.24328G	50.45	68.20	-17.75	-0.73	3	Horizontal	242	1.50	-	51.18	26.01	6.03	32.77
PK	3.208G	47.74	68.20	-20.46	8.06	3	Horizontal	196	1.49	-	39.68	29.78	8.86	30.58

Radiated Emissions above 1GHz_Mode 4



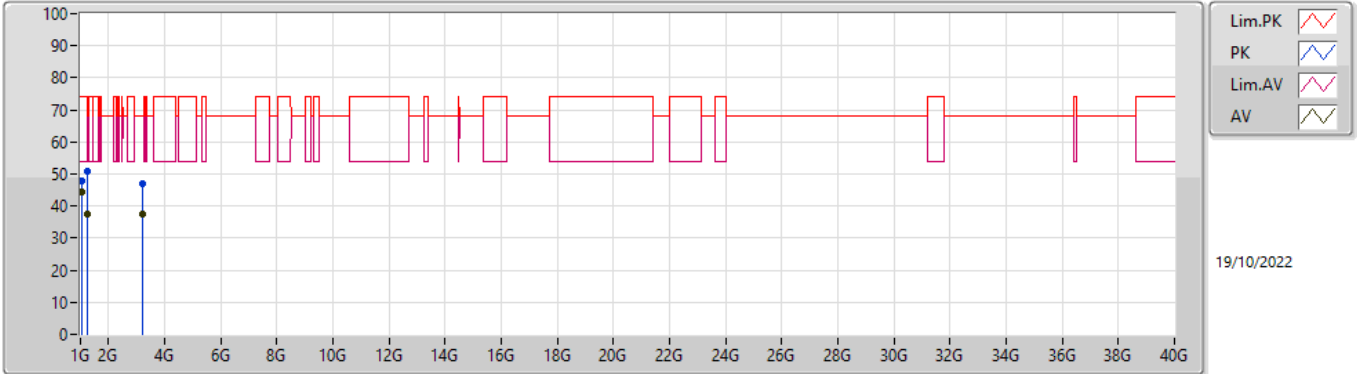
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.06G	45.13	54.00	-8.87	-2.93	3	Vertical	236	1.50	-	48.06	25.18	5.47	33.58
AV	1.24G	39.78	68.20	-28.42	-0.75	3	Vertical	96	2.64	-	40.53	26.02	6.02	32.79
AV	1.468G	29.50	54.00	-24.50	0.70	3	Vertical	307	2.79	-	28.80	25.76	6.72	31.78
AV	4.876G	50.12	54.00	-3.88	12.30	3	Vertical	36	2.89	-	37.82	32.60	9.70	30.00
PK	1.06G	46.79	74.00	-27.21	-2.93	3	Vertical	236	1.50	-	49.72	25.18	5.47	33.58
PK	1.24G	50.59	68.20	-17.61	-0.75	3	Vertical	96	2.64	-	51.34	26.02	6.02	32.79
PK	1.468G	50.75	74.00	-23.25	0.70	3	Vertical	307	2.79	-	50.05	25.76	6.72	31.78
PK	4.876G	54.64	74.00	-19.36	12.30	3	Vertical	36	2.89	-	42.34	32.60	9.70	30.00

Radiated Emissions above 1GHz_Mode 4



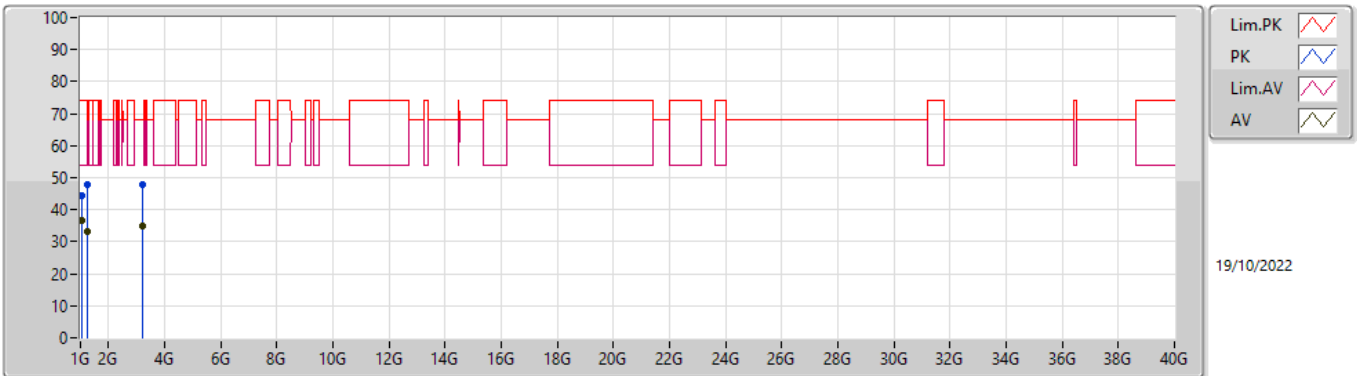
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.06G	35.78	54.00	-18.22	-2.93	3	Horizontal	194	2.02	-	38.71	25.18	5.47	33.58
AV	1.24G	34.70	68.20	-33.50	-0.75	3	Horizontal	260	2.99	-	35.45	26.02	6.02	32.79
AV	4.876G	43.76	54.00	-10.24	12.30	3	Horizontal	360	2.99	-	31.46	32.60	9.70	30.00
PK	1.06G	43.51	74.00	-30.49	-2.93	3	Horizontal	194	2.02	-	46.44	25.18	5.47	33.58
PK	1.24G	48.68	68.20	-19.52	-0.75	3	Horizontal	260	2.99	-	49.43	26.02	6.02	32.79
PK	4.876G	47.05	74.00	-26.95	12.30	3	Horizontal	360	2.99	-	34.75	32.60	9.70	30.00

Radiated Emissions above 1GHz_Mode 5



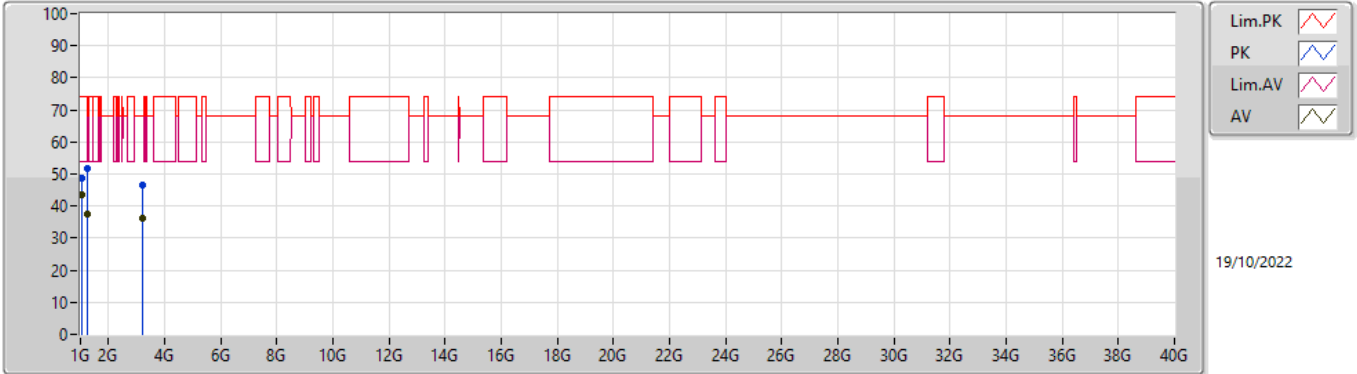
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.06G	44.54	54.00	-9.46	-2.93	3	Vertical	238	1.48	-	47.47	25.18	5.47	33.58
AV	1.24G	37.53	68.20	-30.67	-0.75	3	Vertical	129	2.60	-	38.28	26.02	6.02	32.79
AV	3.208G	37.45	68.20	-30.75	8.06	3	Vertical	0	2.87	-	29.39	29.78	8.86	30.58
PK	1.06G	47.84	74.00	-26.16	-2.93	3	Vertical	238	1.48	-	50.77	25.18	5.47	33.58
PK	1.24G	50.65	68.20	-17.55	-0.75	3	Vertical	129	2.60	-	51.40	26.02	6.02	32.79
PK	3.208G	46.77	68.20	-21.43	8.06	3	Vertical	0	2.87	-	38.71	29.78	8.86	30.58

Radiated Emissions above 1GHz_Mode 5



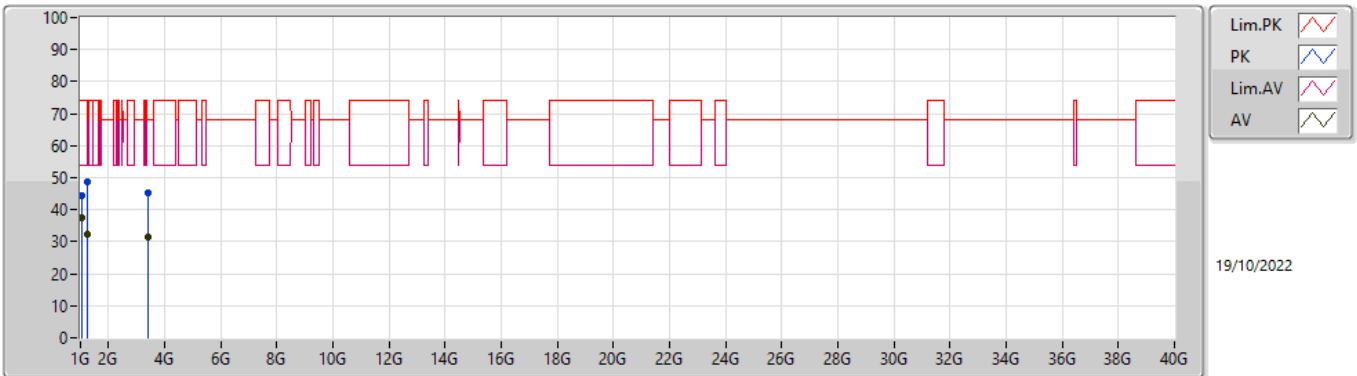
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.06G	36.64	54.00	-17.36	-2.93	3	Horizontal	192	2.06	-	39.57	25.18	5.47	33.58
AV	1.228G	33.12	54.00	-20.88	-0.82	3	Horizontal	227	2.59	-	33.94	26.04	5.98	32.84
AV	3.22G	35.04	68.20	-33.16	8.04	3	Horizontal	360	2.80	-	27.00	29.76	8.86	30.58
PK	1.06G	44.19	74.00	-29.81	-2.93	3	Horizontal	192	2.06	-	47.12	25.18	5.47	33.58
PK	1.228G	47.78	74.00	-26.22	-0.82	3	Horizontal	227	2.59	-	48.60	26.04	5.98	32.84
PK	3.22G	47.68	68.20	-20.52	8.04	3	Horizontal	360	2.80	-	39.64	29.76	8.86	30.58

Radiated Emissions above 1GHz_Mode 6



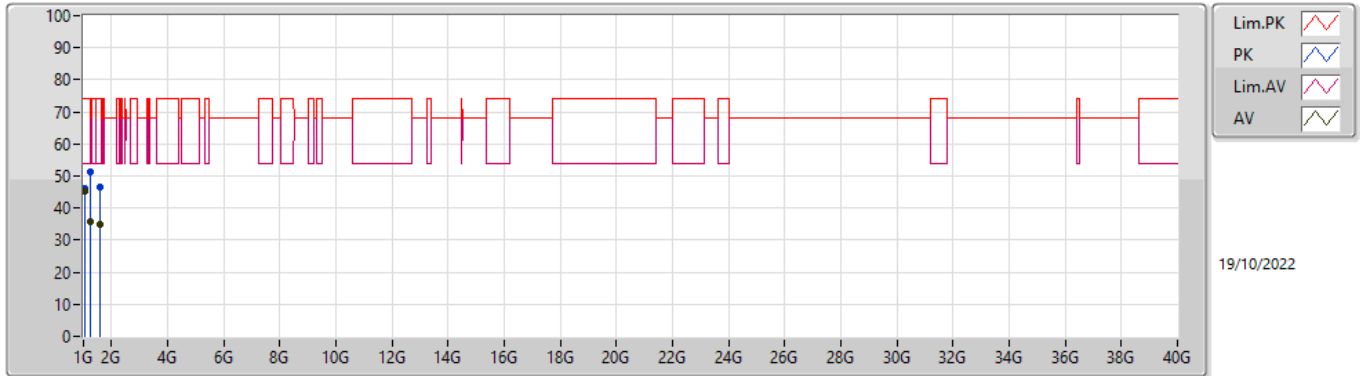
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.06G	43.38	54.00	-10.62	-2.93	3	Vertical	238	1.49	-	46.31	25.18	5.47	33.58
AV	1.24G	37.39	68.20	-30.81	-0.75	3	Vertical	120	2.61	-	38.14	26.02	6.02	32.79
AV	3.208G	36.14	68.20	-32.06	8.06	3	Vertical	217	2.59	-	28.08	29.78	8.86	30.58
PK	1.06G	48.60	74.00	-25.40	-2.93	3	Vertical	238	1.49	-	51.53	25.18	5.47	33.58
PK	1.24G	51.66	68.20	-16.54	-0.75	3	Vertical	120	2.61	-	52.41	26.02	6.02	32.79
PK	3.208G	46.63	68.20	-21.57	8.06	3	Vertical	217	2.59	-	38.57	29.78	8.86	30.58

Radiated Emissions above 1GHz_Mode 6



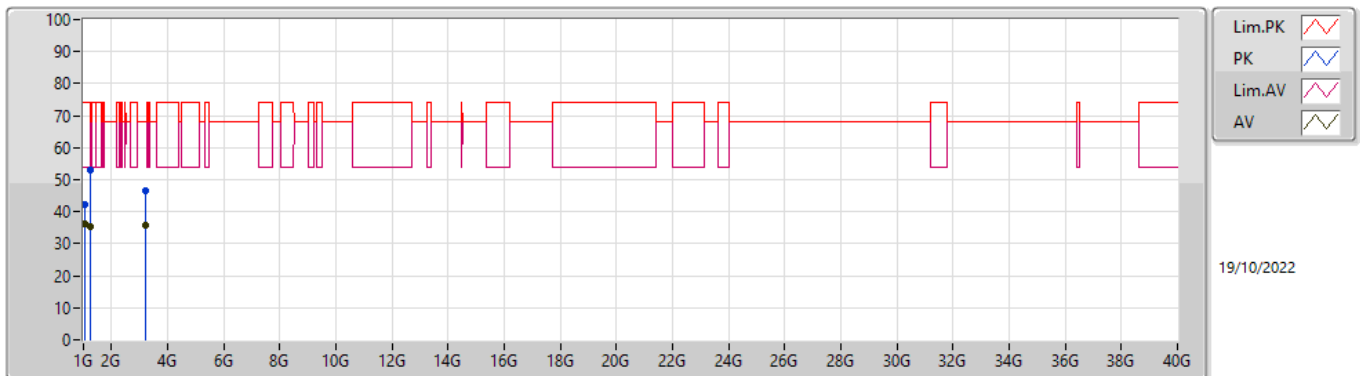
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.06G	37.35	54.00	-16.65	-2.93	3	Horizontal	189	1.50	-	40.28	25.18	5.47	33.58
AV	1.24G	32.54	68.20	-35.66	-0.75	3	Horizontal	341	1.50	-	33.29	26.02	6.02	32.79
AV	3.388G	31.50	68.20	-36.70	7.98	3	Horizontal	345	1.50	-	23.52	29.58	8.90	30.50
PK	1.06G	44.19	74.00	-29.81	-2.93	3	Horizontal	189	1.50	-	47.12	25.18	5.47	33.58
PK	1.24G	48.78	68.20	-19.42	-0.75	3	Horizontal	341	1.50	-	49.53	26.02	6.02	32.79
PK	3.388G	45.31	68.20	-22.89	7.98	3	Horizontal	345	1.50	-	37.33	29.58	8.90	30.50

Radiated Emissions above 1GHz_Mode 7



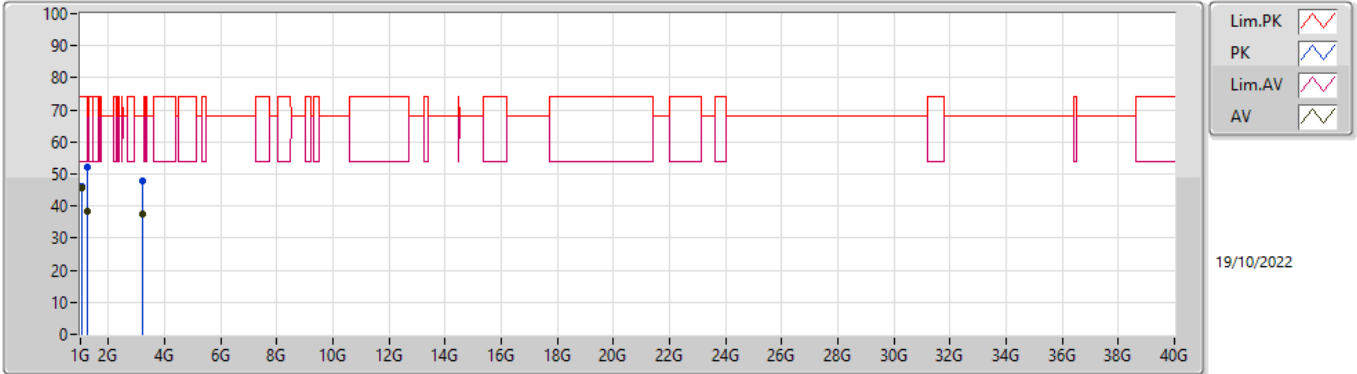
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.06G	45.42	54.00	-8.58	-2.93	3	Vertical	238	1.59	-	48.35	25.18	5.47	33.58
AV	1.24G	35.62	68.20	-32.58	-0.75	3	Vertical	156	1.50	-	36.37	26.02	6.02	32.79
AV	1.6G	34.73	54.00	-19.27	1.05	3	Vertical	4	1.13	-	33.68	25.50	7.07	31.52
PK	1.06G	46.04	74.00	-27.96	-2.93	3	Vertical	238	1.59	-	48.97	25.18	5.47	33.58
PK	1.24G	51.43	68.20	-16.77	-0.75	3	Vertical	156	1.50	-	52.18	26.02	6.02	32.79
PK	1.6G	46.51	74.00	-27.49	1.05	3	Vertical	4	1.13	-	45.46	25.50	7.07	31.52

Radiated Emissions above 1GHz_Mode 7



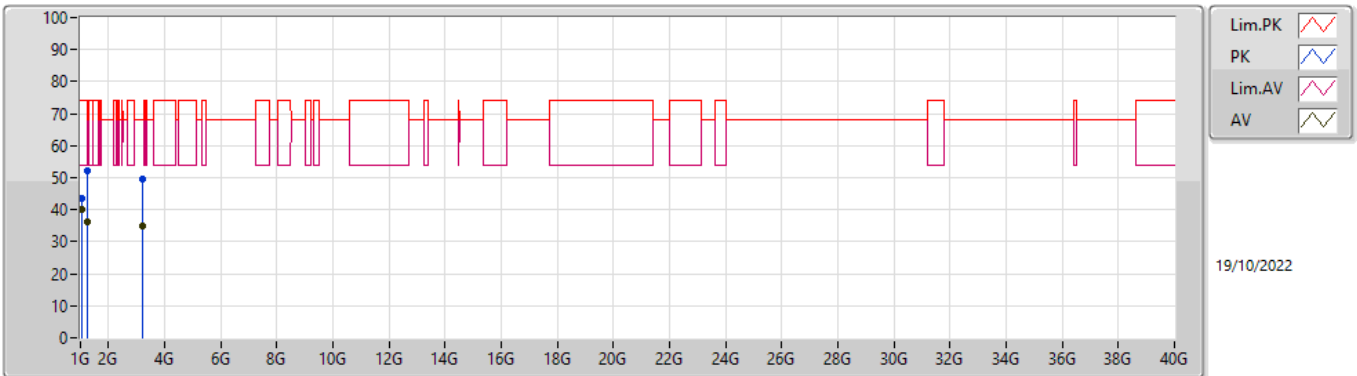
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.06G	36.42	54.00	-17.58	-2.93	3	Horizontal	194	1.92	-	39.35	25.18	5.47	33.58
AV	1.24G	35.13	68.20	-33.07	-0.75	3	Horizontal	256	1.50	-	35.88	26.02	6.02	32.79
AV	3.208G	35.92	68.20	-32.28	8.06	3	Horizontal	198	1.88	-	27.86	29.78	8.86	30.58
PK	1.06G	42.39	74.00	-31.61	-2.93	3	Horizontal	194	1.92	-	45.32	25.18	5.47	33.58
PK	1.24G	52.82	68.20	-15.38	-0.75	3	Horizontal	256	1.50	-	53.57	26.02	6.02	32.79
PK	3.208G	46.50	68.20	-21.70	8.06	3	Horizontal	198	1.88	-	38.44	29.78	8.86	30.58

Radiated Emissions above 1GHz_Mode 8



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.06G	45.74	54.00	-8.26	-2.93	3	Vertical	238	1.50	-	48.67	25.18	5.47	33.58
AV	1.24G	38.32	68.20	-29.88	-0.75	3	Vertical	95	2.68	-	39.07	26.02	6.02	32.79
AV	3.22G	37.40	68.20	-30.80	8.04	3	Vertical	202	3.00	-	29.36	29.76	8.86	30.58
PK	1.06G	46.09	74.00	-27.91	-2.93	3	Vertical	238	1.50	-	49.02	25.18	5.47	33.58
PK	1.24G	52.25	68.20	-15.95	-0.75	3	Vertical	95	2.68	-	53.00	26.02	6.02	32.79
PK	3.22G	48.05	68.20	-20.15	8.04	3	Vertical	202	3.00	-	40.01	29.76	8.86	30.58

Radiated Emissions above 1GHz_Mode 8



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.06G	40.22	54.00	-13.78	-2.93	3	Horizontal	121	2.70	-	43.15	25.18	5.47	33.58
AV	1.24G	36.18	68.20	-32.02	-0.75	3	Horizontal	231	1.56	-	36.93	26.02	6.02	32.79
AV	3.208G	34.74	68.20	-33.46	8.06	3	Horizontal	191	1.25	-	26.68	29.78	8.86	30.58
PK	1.06G	43.70	74.00	-30.30	-2.93	3	Horizontal	121	2.70	-	46.63	25.18	5.47	33.58
PK	1.24G	52.25	68.20	-15.95	-0.75	3	Horizontal	231	1.56	-	53.00	26.02	6.02	32.79
PK	3.208G	49.48	68.20	-18.72	8.06	3	Horizontal	191	1.25	-	41.42	29.78	8.86	30.58



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	1.07102G	37.93	54.00	-16.07	Vertical
Mode 2	Pass	AV	1.07103G	39.88	54.00	-14.12	Horizontal
Mode 3	Pass	PK	3.21243G	54.77	68.20	-13.43	Vertical
Mode 4	Pass	AV	1.07078G	40.85	54.00	-13.15	Vertical
Mode 5	Pass	AV	1.07093G	39.22	54.00	-14.78	Horizontal
Mode 6	Pass	PK	3.21252G	58.03	68.20	-10.17	Vertical
Mode 7	Pass	AV	4.876G	48.10	54.00	-5.90	Vertical
Mode 8	Pass	AV	1.06G	38.90	54.00	-15.10	Horizontal



Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
Mode 1	Pass	AV	1.07102G	37.93	54.00	-16.07	3	Vertical	288	1.37	-
Mode 1	Pass	AV	3.20722G	35.39	68.20	-32.81	3	Vertical	202	1.72	-
Mode 1	Pass	AV	4.5675G	32.01	54.00	-21.99	3	Vertical	201	2.47	-
Mode 1	Pass	PK	1.07078G	51.48	74.00	-22.52	3	Vertical	288	1.37	-
Mode 1	Pass	PK	3.20722G	44.05	68.20	-24.15	3	Vertical	202	1.72	-
Mode 1	Pass	PK	4.5675G	45.77	74.00	-28.23	3	Vertical	201	2.47	-
Mode 1	Pass	AV	1.07094G	37.67	54.00	-16.33	3	Horizontal	322	1.38	-
Mode 1	Pass	AV	1.16082G	30.60	54.00	-23.40	3	Horizontal	357	3.00	-
Mode 1	Pass	AV	3.34084G	30.28	68.20	-37.92	3	Horizontal	107	1.35	-
Mode 1	Pass	PK	1.07078G	51.86	74.00	-22.14	3	Horizontal	322	1.38	-
Mode 1	Pass	PK	1.15428G	50.16	74.00	-23.84	3	Horizontal	357	3.00	-
Mode 1	Pass	PK	3.34332G	44.50	68.20	-23.70	3	Horizontal	107	1.35	-
Mode 2	Pass	AV	1.07098G	37.64	54.00	-16.36	3	Vertical	179	1.50	-
Mode 2	Pass	AV	1.33354G	29.14	54.00	-24.86	3	Vertical	34	1.79	-
Mode 2	Pass	AV	1.43491G	30.76	68.20	-37.44	3	Vertical	49	1.23	-
Mode 2	Pass	PK	1.07091G	49.26	74.00	-24.74	3	Vertical	179	1.50	-
Mode 2	Pass	PK	1.33893G	49.57	74.00	-24.43	3	Vertical	34	1.79	-
Mode 2	Pass	PK	1.43253G	49.07	68.20	-19.13	3	Vertical	49	1.23	-
Mode 2	Pass	AV	1.07103G	39.88	54.00	-14.12	3	Horizontal	309	1.50	-
Mode 2	Pass	AV	1.15984G	29.82	54.00	-24.18	3	Horizontal	0	3.00	-
Mode 2	Pass	AV	1.42186G	32.34	54.00	-21.66	3	Horizontal	40	2.67	-
Mode 2	Pass	PK	1.07111G	58.44	74.00	-15.56	3	Horizontal	309	1.50	-
Mode 2	Pass	PK	1.15412G	49.92	74.00	-24.08	3	Horizontal	0	3.00	-
Mode 2	Pass	PK	1.42294G	48.31	74.00	-25.69	3	Horizontal	40	2.67	-
Mode 3	Pass	AV	1.07103G	36.78	54.00	-17.22	3	Vertical	289	1.80	-
Mode 3	Pass	AV	1.42056G	34.44	54.00	-19.56	3	Vertical	88	3.00	-
Mode 3	Pass	AV	3.2126G	37.10	68.20	-31.10	3	Vertical	202	1.33	-
Mode 3	Pass	PK	1.07094G	49.13	74.00	-24.87	3	Vertical	289	1.80	-
Mode 3	Pass	PK	1.42544G	51.19	74.00	-22.81	3	Vertical	88	3.00	-
Mode 3	Pass	PK	3.21243G	54.77	68.20	-13.43	3	Vertical	202	1.33	-
Mode 3	Pass	AV	1.07101G	39.44	54.00	-14.56	3	Horizontal	306	1.50	-
Mode 3	Pass	AV	1.19584G	26.62	54.00	-27.38	3	Horizontal	196	2.96	-
Mode 3	Pass	AV	1.47056G	28.12	54.00	-25.88	3	Horizontal	337	2.86	-
Mode 3	Pass	PK	1.07096G	53.24	74.00	-20.76	3	Horizontal	306	1.50	-
Mode 3	Pass	PK	1.19578G	40.94	74.00	-33.06	3	Horizontal	196	2.96	-
Mode 3	Pass	PK	1.47158G	48.17	74.00	-25.83	3	Horizontal	337	2.86	-
Mode 4	Pass	AV	1.07078G	40.85	54.00	-13.15	3	Vertical	284	1.48	-
Mode 4	Pass	AV	1.15636G	31.59	54.00	-22.41	3	Vertical	110	1.72	-
Mode 4	Pass	AV	3.47052G	31.26	68.20	-36.94	3	Vertical	292	1.71	-
Mode 4	Pass	PK	1.07133G	52.71	74.00	-21.29	3	Vertical	284	1.48	-
Mode 4	Pass	PK	1.1542G	51.20	74.00	-22.80	3	Vertical	110	1.72	-
Mode 4	Pass	PK	3.4734G	45.17	68.20	-23.03	3	Vertical	292	1.71	-
Mode 4	Pass	AV	1.07089G	38.47	54.00	-15.53	3	Horizontal	320	2.38	-
Mode 4	Pass	AV	1.16284G	33.44	54.00	-20.56	3	Horizontal	9	3.00	-
Mode 4	Pass	AV	1.42036G	34.59	54.00	-19.41	3	Horizontal	53	2.57	-
Mode 4	Pass	PK	1.07078G	51.10	74.00	-22.90	3	Horizontal	320	2.38	-
Mode 4	Pass	PK	1.15404G	51.51	74.00	-22.49	3	Horizontal	9	3.00	-
Mode 4	Pass	PK	1.42852G	51.37	68.20	-16.83	3	Horizontal	53	2.57	-
Mode 5	Pass	AV	1.07094G	38.29	54.00	-15.71	3	Vertical	282	1.50	-
Mode 5	Pass	AV	1.15648G	30.54	54.00	-23.46	3	Vertical	112	2.36	-

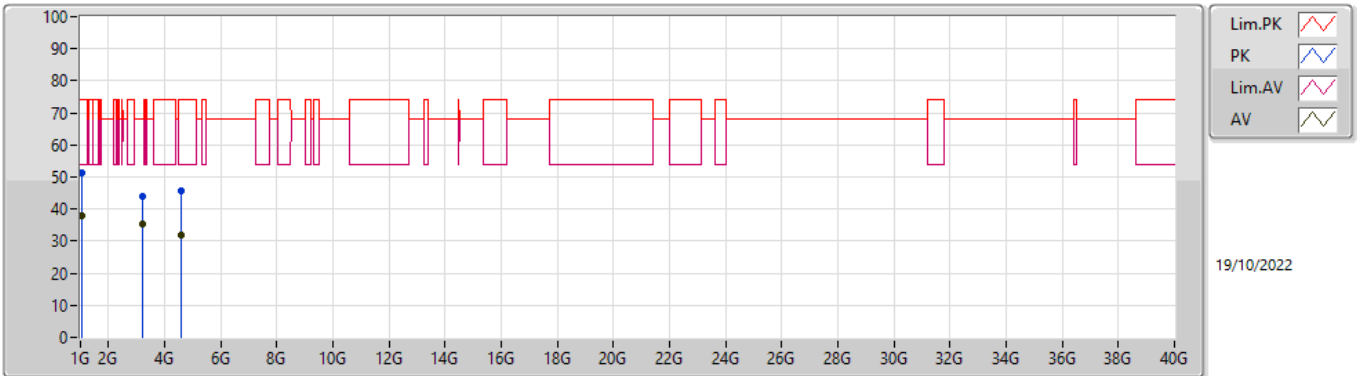


Radiated Emissions above 1GHz_FAP-233G

Appendix G.2

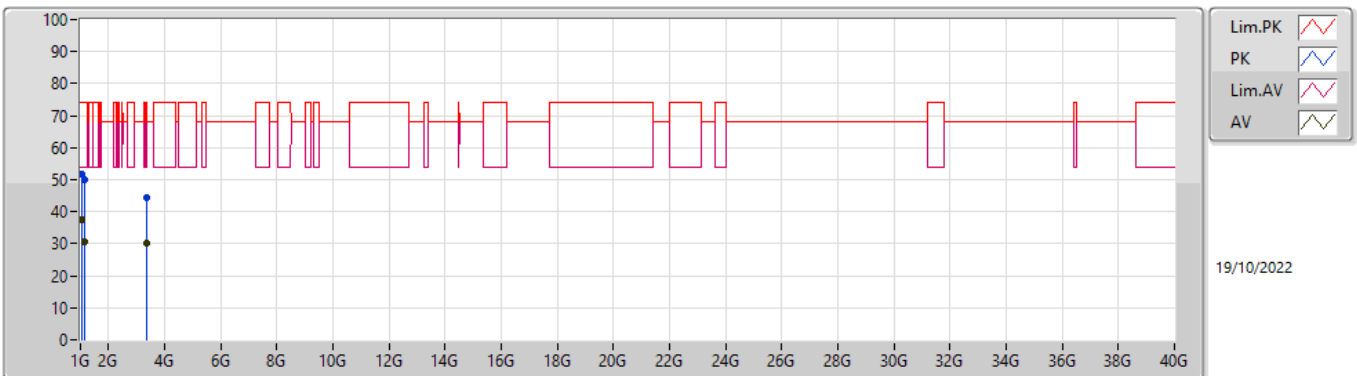
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
Mode 5	Pass	AV	1.4112G	33.79	54.00	-20.21	3	Vertical	80	2.64	-
Mode 5	Pass	PK	1.0709G	52.54	74.00	-21.46	3	Vertical	282	1.50	-
Mode 5	Pass	PK	1.15396G	51.58	74.00	-22.42	3	Vertical	112	2.36	-
Mode 5	Pass	PK	1.41568G	50.38	74.00	-23.62	3	Vertical	80	2.64	-
Mode 5	Pass	AV	1.07093G	39.22	54.00	-14.78	3	Horizontal	306	1.50	-
Mode 5	Pass	AV	1.15856G	33.01	54.00	-20.99	3	Horizontal	5	2.96	-
Mode 5	Pass	AV	1.33416G	29.09	54.00	-24.91	3	Horizontal	225	1.00	-
Mode 5	Pass	PK	1.07072G	53.16	74.00	-20.84	3	Horizontal	306	1.50	-
Mode 5	Pass	PK	1.15422G	50.39	74.00	-23.61	3	Horizontal	5	2.96	-
Mode 5	Pass	PK	1.33896G	50.69	74.00	-23.31	3	Horizontal	225	1.00	-
Mode 6	Pass	AV	1.07094G	37.36	54.00	-16.64	3	Vertical	276	2.03	-
Mode 6	Pass	AV	1.4188G	31.96	54.00	-22.04	3	Vertical	131	1.50	-
Mode 6	Pass	AV	3.2126G	37.21	68.20	-30.99	3	Vertical	204	1.28	-
Mode 6	Pass	PK	1.07114G	52.01	74.00	-21.99	3	Vertical	276	2.03	-
Mode 6	Pass	PK	1.42088G	47.51	74.00	-26.49	3	Vertical	131	1.50	-
Mode 6	Pass	PK	3.21252G	58.03	68.20	-10.17	3	Vertical	204	1.28	-
Mode 6	Pass	AV	1.07109G	38.63	54.00	-15.37	3	Horizontal	313	1.62	-
Mode 6	Pass	AV	1.16864G	31.58	54.00	-22.42	3	Horizontal	0	3.00	-
Mode 6	Pass	AV	1.42488G	31.73	54.00	-22.27	3	Horizontal	55	2.66	-
Mode 6	Pass	PK	1.07041G	51.21	74.00	-22.79	3	Horizontal	313	1.62	-
Mode 6	Pass	PK	1.17488G	51.37	74.00	-22.63	3	Horizontal	0	3.00	-
Mode 6	Pass	PK	1.42268G	48.04	74.00	-25.96	3	Horizontal	55	2.66	-
Mode 7	Pass	AV	1.06G	40.70	54.00	-13.30	3	Vertical	289	1.75	-
Mode 7	Pass	AV	1.42G	35.83	54.00	-18.17	3	Vertical	117	1.50	-
Mode 7	Pass	AV	3.208G	38.20	68.20	-30.00	3	Vertical	218	1.50	-
Mode 7	Pass	AV	4.876G	48.10	54.00	-5.90	3	Vertical	241	1.11	-
Mode 7	Pass	PK	1.06G	46.72	74.00	-27.28	3	Vertical	289	1.75	-
Mode 7	Pass	PK	1.42G	51.98	74.00	-22.02	3	Vertical	117	1.50	-
Mode 7	Pass	PK	3.208G	49.02	68.20	-19.18	3	Vertical	218	1.50	-
Mode 7	Pass	PK	4.876G	51.89	74.00	-22.11	3	Vertical	241	1.11	-
Mode 7	Pass	AV	1.06G	40.67	54.00	-13.33	3	Horizontal	342	1.50	-
Mode 7	Pass	AV	1.144G	32.97	54.00	-21.03	3	Horizontal	0	2.97	-
Mode 7	Pass	AV	3.208G	36.76	68.20	-31.44	3	Horizontal	0	2.52	-
Mode 7	Pass	AV	4.876G	42.82	54.00	-11.18	3	Horizontal	26	1.00	-
Mode 7	Pass	PK	1.06G	47.04	74.00	-26.96	3	Horizontal	342	1.50	-
Mode 7	Pass	PK	1.144G	46.66	74.00	-27.34	3	Horizontal	0	2.97	-
Mode 7	Pass	PK	3.208G	46.57	68.20	-21.63	3	Horizontal	0	2.52	-
Mode 7	Pass	PK	4.876G	47.83	74.00	-26.17	3	Horizontal	26	1.00	-
Mode 8	Pass	AV	1.06G	38.49	54.00	-15.51	3	Vertical	192	2.22	-
Mode 8	Pass	AV	1.408G	29.71	54.00	-24.29	3	Vertical	74	2.65	-
Mode 8	Pass	AV	3.208G	37.51	68.20	-30.69	3	Vertical	217	1.00	-
Mode 8	Pass	PK	1.06G	44.94	74.00	-29.06	3	Vertical	192	2.22	-
Mode 8	Pass	PK	1.408G	47.08	74.00	-26.92	3	Vertical	74	2.65	-
Mode 8	Pass	PK	3.208G	47.48	68.20	-20.72	3	Vertical	217	1.00	-
Mode 8	Pass	AV	1.06G	38.90	54.00	-15.10	3	Horizontal	161	2.00	-
Mode 8	Pass	AV	1.168G	33.27	54.00	-20.73	3	Horizontal	11	3.00	-
Mode 8	Pass	AV	3.136G	32.30	68.20	-35.90	3	Horizontal	266	1.50	-
Mode 8	Pass	PK	1.06G	50.25	74.00	-23.75	3	Horizontal	161	2.00	-
Mode 8	Pass	PK	1.168G	49.46	74.00	-24.54	3	Horizontal	11	3.00	-
Mode 8	Pass	PK	3.136G	45.39	68.20	-22.81	3	Horizontal	266	1.50	-

Radiated Emissions above 1GHz_Mode 1



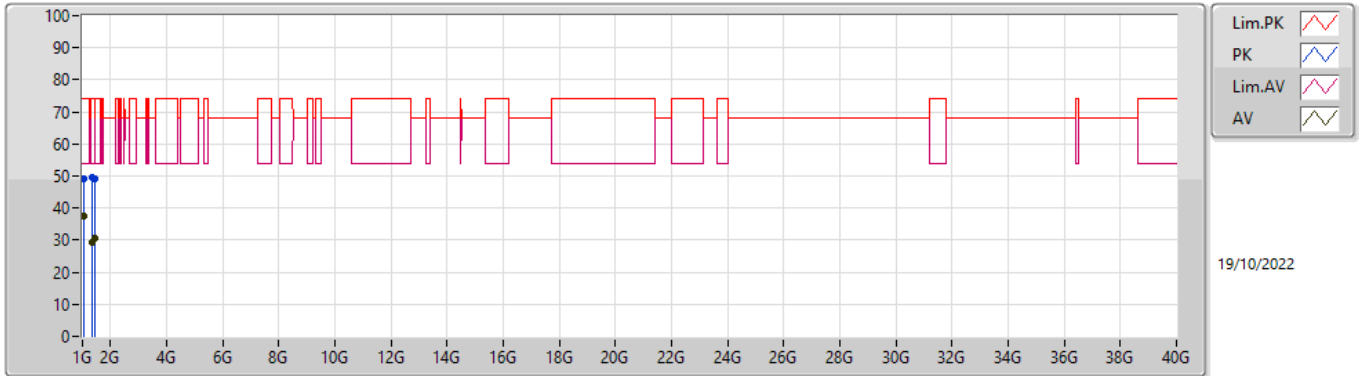
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.07102G	37.93	54.00	-16.07	-2.77	3	Vertical	288	1.37	-	40.70	25.27	5.50	33.54
AV	3.20722G	35.39	68.20	-32.81	8.07	3	Vertical	202	1.72	-	27.32	29.79	8.86	30.58
AV	4.5675G	32.01	54.00	-21.99	11.07	3	Vertical	201	2.47	-	20.94	31.66	9.52	30.11
PK	1.07078G	51.48	74.00	-22.52	-2.77	3	Vertical	288	1.37	-	54.25	25.27	5.50	33.54
PK	3.20722G	44.05	68.20	-24.15	8.07	3	Vertical	202	1.72	-	35.98	29.79	8.86	30.58
PK	4.5675G	45.77	74.00	-28.23	11.07	3	Vertical	201	2.47	-	34.70	31.66	9.52	30.11

Radiated Emissions above 1GHz_Mode 1



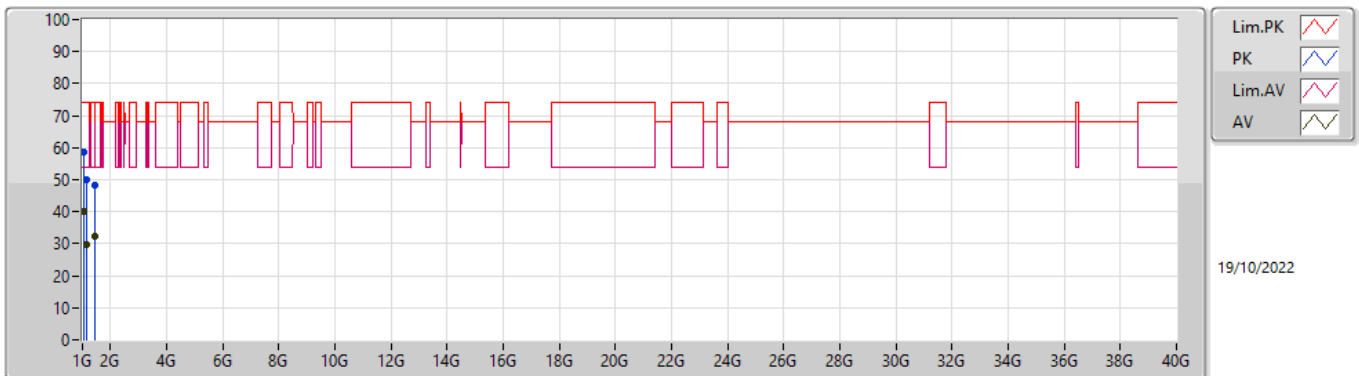
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AV	1.07094G	37.67	54.00	-16.33	-2.77	3	Horizontal	322	1.38	-	40.44	25.27	5.50	33.54
AV	1.16082G	30.60	54.00	-23.40	-1.27	3	Horizontal	357	3.00	-	31.87	26.10	5.77	33.14
AV	3.34084G	30.28	68.20	-37.92	7.89	3	Horizontal	107	1.35	-	22.39	29.52	8.89	30.52
PK	1.07078G	51.86	74.00	-22.14	-2.77	3	Horizontal	322	1.38	-	54.63	25.27	5.50	33.54
PK	1.15428G	50.16	74.00	-23.84	-1.32	3	Horizontal	357	3.00	-	51.48	26.10	5.75	33.17
PK	3.34332G	44.50	68.20	-23.70	7.88	3	Horizontal	107	1.35	-	36.62	29.51	8.89	30.52

Radiated Emissions above 1GHz_Mode 2



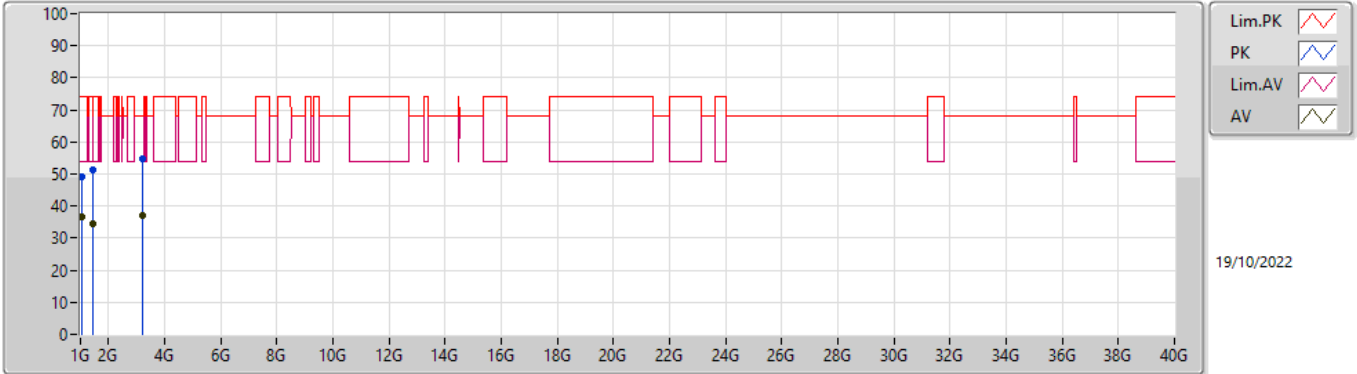
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.07098G	37.64	54.00	-16.36	-2.77	3	Vertical	179	1.50	-	40.41	25.27	5.50	33.54
AV	1.33354G	29.14	54.00	-24.86	-0.09	3	Vertical	34	1.79	-	29.23	25.97	6.32	32.38
AV	1.43491G	30.76	68.20	-37.44	0.57	3	Vertical	49	1.23	-	30.19	25.87	6.63	31.93
PK	1.07091G	49.26	74.00	-24.74	-2.77	3	Vertical	179	1.50	-	52.03	25.27	5.50	33.54
PK	1.33893G	49.57	74.00	-24.43	0.00	3	Vertical	34	1.79	-	49.57	26.01	6.34	32.35
PK	1.43253G	49.07	68.20	-19.13	0.56	3	Vertical	49	1.23	-	48.51	25.87	6.63	31.94

Radiated Emissions above 1GHz_Mode 2



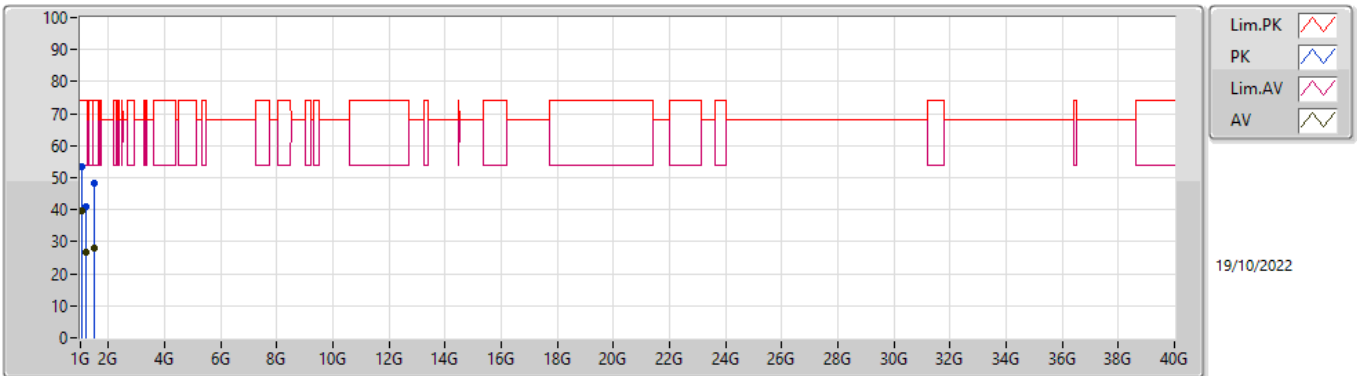
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.07103G	39.88	54.00	-14.12	-2.77	3	Horizontal	309	1.50	-	42.65	25.27	5.50	33.54
AV	1.15984G	29.82	54.00	-24.18	-1.27	3	Horizontal	0	3.00	-	31.09	26.10	5.77	33.14
AV	1.42186G	32.34	54.00	-21.66	0.45	3	Horizontal	40	2.67	-	31.89	25.84	6.60	31.99
PK	1.07111G	58.44	74.00	-15.56	-2.77	3	Horizontal	309	1.50	-	61.21	25.27	5.50	33.54
PK	1.15412G	49.92	74.00	-24.08	-1.32	3	Horizontal	0	3.00	-	51.24	26.10	5.75	33.17
PK	1.42294G	48.31	74.00	-25.69	0.47	3	Horizontal	40	2.67	-	47.84	25.85	6.60	31.98

Radiated Emissions above 1GHz_Mode 3



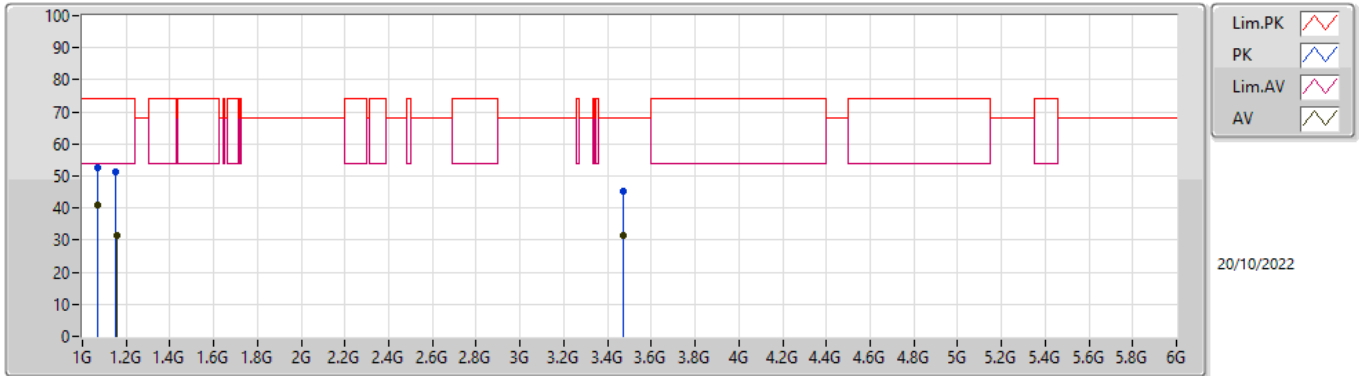
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.07103G	36.78	54.00	-17.22	-2.77	3	Vertical	289	1.80	-	39.55	25.27	5.50	33.54
AV	1.42056G	34.44	54.00	-19.56	0.44	3	Vertical	88	3.00	-	34.00	25.84	6.59	31.99
AV	3.2126G	37.10	68.20	-31.10	8.05	3	Vertical	202	1.33	-	29.05	29.77	8.86	30.58
PK	1.07094G	49.13	74.00	-24.87	-2.77	3	Vertical	289	1.80	-	51.90	25.27	5.50	33.54
PK	1.42544G	51.19	74.00	-22.81	0.49	3	Vertical	88	3.00	-	50.70	25.85	6.61	31.97
PK	3.21243G	54.77	68.20	-13.43	8.06	3	Vertical	202	1.33	-	46.71	29.78	8.86	30.58

Radiated Emissions above 1GHz_Mode 3



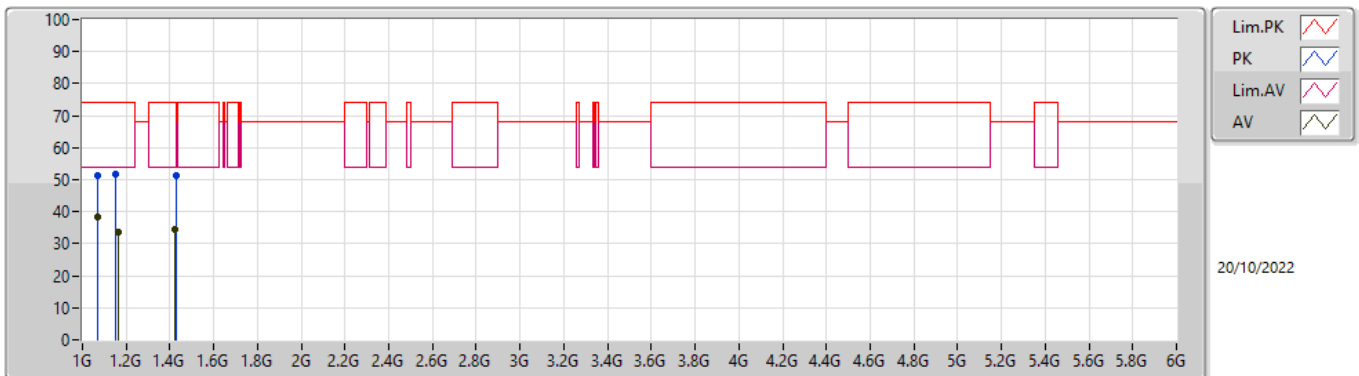
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.07101G	39.44	54.00	-14.56	-2.77	3	Horizontal	306	1.50	-	42.21	25.27	5.50	33.54
AV	1.19584G	26.62	54.00	-27.38	-1.00	3	Horizontal	196	2.96	-	27.62	26.10	5.88	32.98
AV	1.47056G	28.12	54.00	-25.88	0.70	3	Horizontal	337	2.86	-	27.42	25.74	6.73	31.77
PK	1.07096G	53.24	74.00	-20.76	-2.77	3	Horizontal	306	1.50	-	56.01	25.27	5.50	33.54
PK	1.19578G	40.94	74.00	-33.06	-1.00	3	Horizontal	196	2.96	-	41.94	26.10	5.88	32.98
PK	1.47158G	48.17	74.00	-25.83	0.69	3	Horizontal	337	2.86	-	47.48	25.73	6.73	31.77

Radiated Emissions above 1GHz_Mode 4



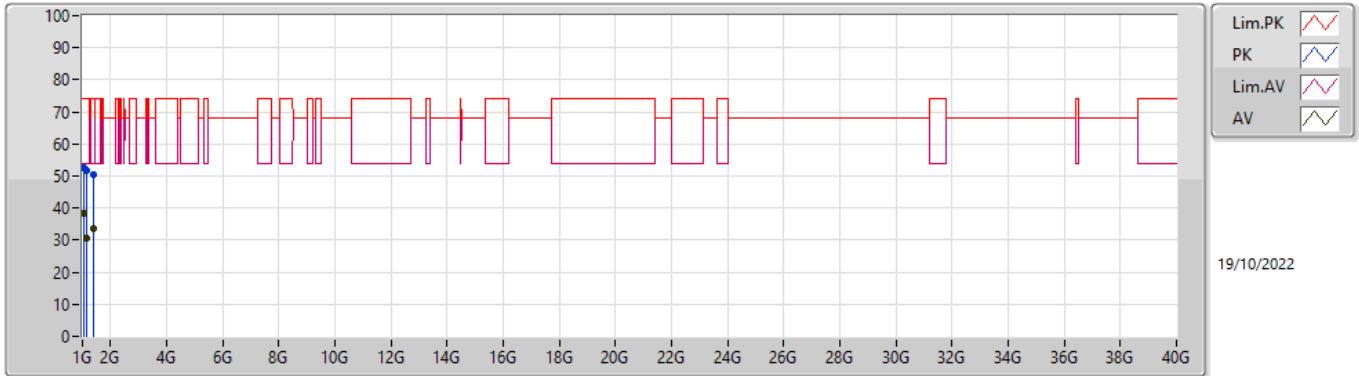
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.07078G	40.85	54.00	-13.15	-2.77	3	Vertical	284	1.48	-	43.62	25.27	5.50	33.54
AV	1.15636G	31.59	54.00	-22.41	-1.30	3	Vertical	110	1.72	-	32.89	26.10	5.76	33.16
AV	3.47052G	31.26	68.20	-36.94	8.00	3	Vertical	292	1.71	-	23.26	29.50	8.96	30.46
PK	1.07133G	52.71	74.00	-21.29	-2.76	3	Vertical	284	1.48	-	55.47	25.27	5.50	33.53
PK	1.1542G	51.20	74.00	-22.80	-1.32	3	Vertical	110	1.72	-	52.52	26.10	5.75	33.17
PK	3.4734G	45.17	68.20	-23.03	8.00	3	Vertical	292	1.71	-	37.17	29.50	8.96	30.46

Radiated Emissions above 1GHz_Mode 4



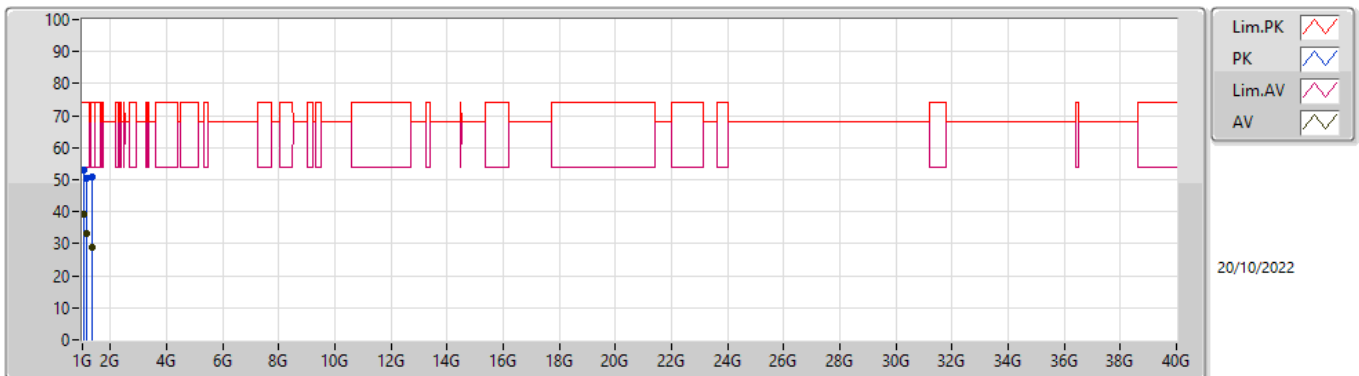
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.07089G	38.47	54.00	-15.53	-2.77	3	Horizontal	320	2.38	-	41.24	25.27	5.50	33.54
AV	1.16284G	33.44	54.00	-20.56	-1.25	3	Horizontal	9	3.00	-	34.69	26.10	5.78	33.13
AV	1.42036G	34.59	54.00	-19.41	0.44	3	Horizontal	53	2.57	-	34.15	25.84	6.59	31.99
PK	1.07078G	51.10	74.00	-22.90	-2.77	3	Horizontal	320	2.38	-	53.87	25.27	5.50	33.54
PK	1.15404G	51.51	74.00	-22.49	-1.32	3	Horizontal	9	3.00	-	52.83	26.10	5.75	33.17
PK	1.42852G	51.37	68.20	-16.83	0.52	3	Horizontal	53	2.57	-	50.85	25.86	6.62	31.96

Radiated Emissions above 1GHz_Mode 5



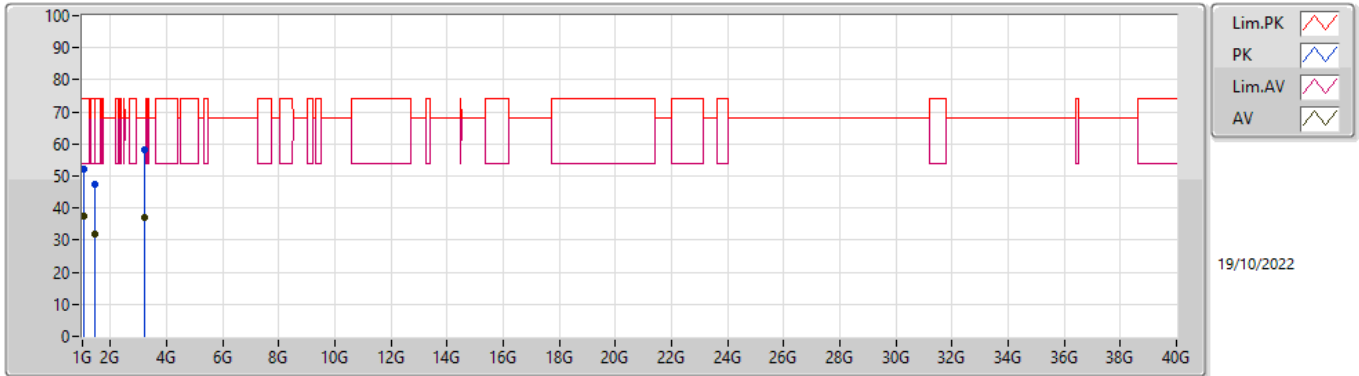
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.07094G	38.29	54.00	-15.71	-2.77	3	Vertical	282	1.50	-	41.06	25.27	5.50	33.54
AV	1.15648G	30.54	54.00	-23.46	-1.30	3	Vertical	112	2.36	-	31.84	26.10	5.76	33.16
AV	1.4112G	33.79	54.00	-20.21	0.36	3	Vertical	80	2.64	-	33.43	25.82	6.57	32.03
PK	1.0709G	52.54	74.00	-21.46	-2.77	3	Vertical	282	1.50	-	55.31	25.27	5.50	33.54
PK	1.15396G	51.58	74.00	-22.42	-1.32	3	Vertical	112	2.36	-	52.90	26.10	5.75	33.17
PK	1.41568G	50.38	74.00	-23.62	0.40	3	Vertical	80	2.64	-	49.98	25.83	6.58	32.01

Radiated Emissions above 1GHz_Mode 5



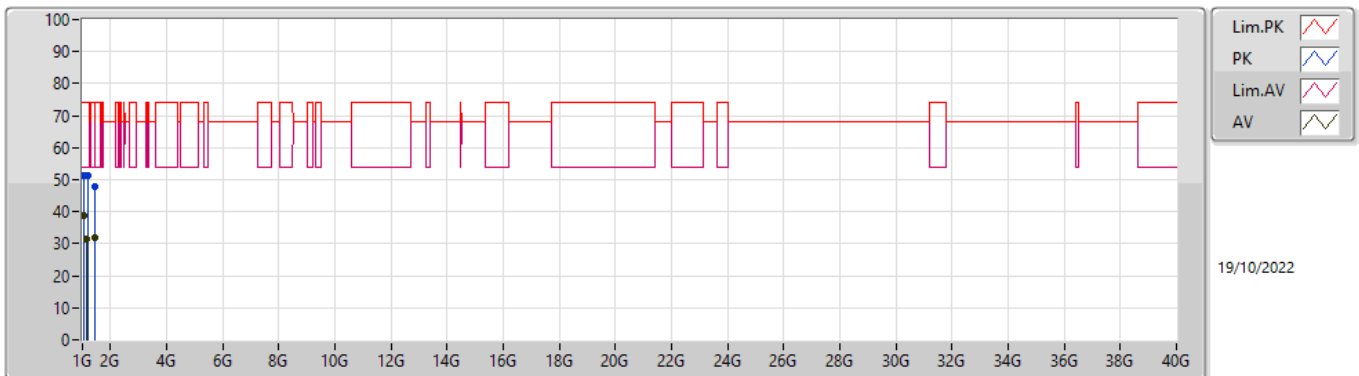
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.07093G	39.22	54.00	-14.78	-2.77	3	Horizontal	306	1.50	-	41.99	25.27	5.50	33.54
AV	1.15856G	33.01	54.00	-20.99	-1.28	3	Horizontal	5	2.96	-	34.29	26.10	5.77	33.15
AV	1.33416G	29.09	54.00	-24.91	-0.07	3	Horizontal	225	1.00	-	29.16	25.97	6.33	32.37
PK	1.07072G	53.16	74.00	-20.84	-2.77	3	Horizontal	306	1.50	-	55.93	25.27	5.50	33.54
PK	1.15422G	50.39	74.00	-23.61	-1.32	3	Horizontal	5	2.96	-	51.71	26.10	5.75	33.17
PK	1.33896G	50.69	74.00	-23.31	0.00	3	Horizontal	225	1.00	-	50.69	26.01	6.34	32.35

Radiated Emissions above 1GHz_Mode 6



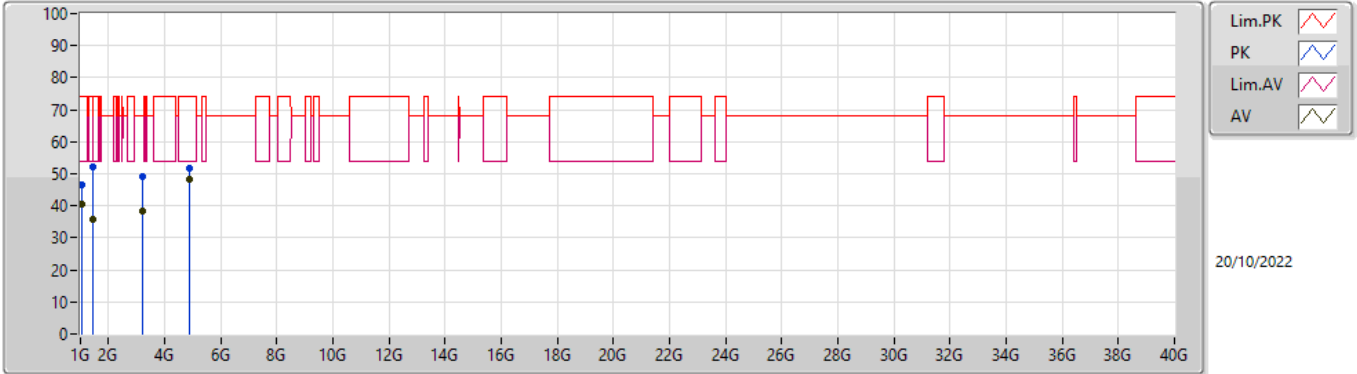
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.07094G	37.36	54.00	-16.64	-2.77	3	Vertical	276	2.03	-	40.13	25.27	5.50	33.54
AV	1.4188G	31.96	54.00	-22.04	0.43	3	Vertical	131	1.50	-	31.53	25.84	6.59	32.00
AV	3.2126G	37.21	68.20	-30.99	8.05	3	Vertical	204	1.28	-	29.16	29.77	8.86	30.58
PK	1.07114G	52.01	74.00	-21.99	-2.77	3	Vertical	276	2.03	-	54.78	25.27	5.50	33.54
PK	1.42088G	47.51	74.00	-26.49	0.45	3	Vertical	131	1.50	-	47.06	25.84	6.60	31.99
PK	3.21252G	58.03	68.20	-10.17	8.05	3	Vertical	204	1.28	-	49.98	29.77	8.86	30.58

Radiated Emissions above 1GHz_Mode 6



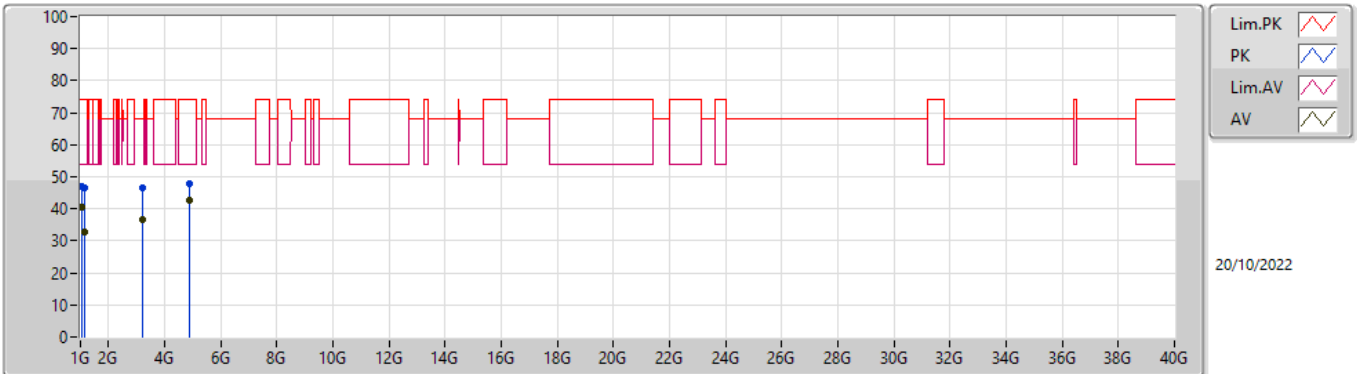
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.07109G	38.63	54.00	-15.37	-2.77	3	Horizontal	313	1.62	-	41.40	25.27	5.50	33.54
AV	1.16864G	31.58	54.00	-22.42	-1.20	3	Horizontal	0	3.00	-	32.78	26.10	5.80	33.10
AV	1.42488G	31.73	54.00	-22.27	0.49	3	Horizontal	55	2.66	-	31.24	25.85	6.61	31.97
PK	1.07041G	51.21	74.00	-22.79	-2.78	3	Horizontal	313	1.62	-	53.99	25.26	5.50	33.54
PK	1.17488G	51.37	74.00	-22.63	-1.17	3	Horizontal	0	3.00	-	52.54	26.10	5.81	33.08
PK	1.42268G	48.04	74.00	-25.96	0.47	3	Horizontal	55	2.66	-	47.57	25.85	6.60	31.98

Radiated Emissions above 1GHz_Mode 7



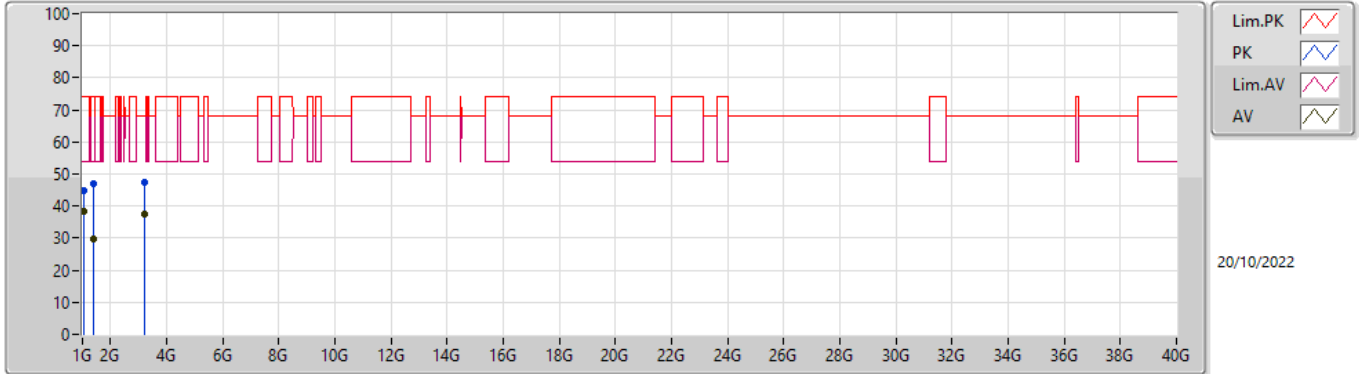
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.06G	40.70	54.00	-13.30	-2.93	3	Vertical	289	1.75	-	43.63	25.18	5.47	33.58
AV	1.42G	35.83	54.00	-18.17	0.44	3	Vertical	117	1.50	-	35.39	25.84	6.59	31.99
AV	3.208G	38.20	68.20	-30.00	8.06	3	Vertical	218	1.50	-	30.14	29.78	8.86	30.58
AV	4.876G	48.10	54.00	-5.90	12.30	3	Vertical	241	1.11	-	35.80	32.60	9.70	30.00
PK	1.06G	46.72	74.00	-27.28	-2.93	3	Vertical	289	1.75	-	49.65	25.18	5.47	33.58
PK	1.42G	51.98	74.00	-22.02	0.44	3	Vertical	117	1.50	-	51.54	25.84	6.59	31.99
PK	3.208G	49.02	68.20	-19.18	8.06	3	Vertical	218	1.50	-	40.96	29.78	8.86	30.58
PK	4.876G	51.89	74.00	-22.11	12.30	3	Vertical	241	1.11	-	39.59	32.60	9.70	30.00

Radiated Emissions above 1GHz_Mode 7



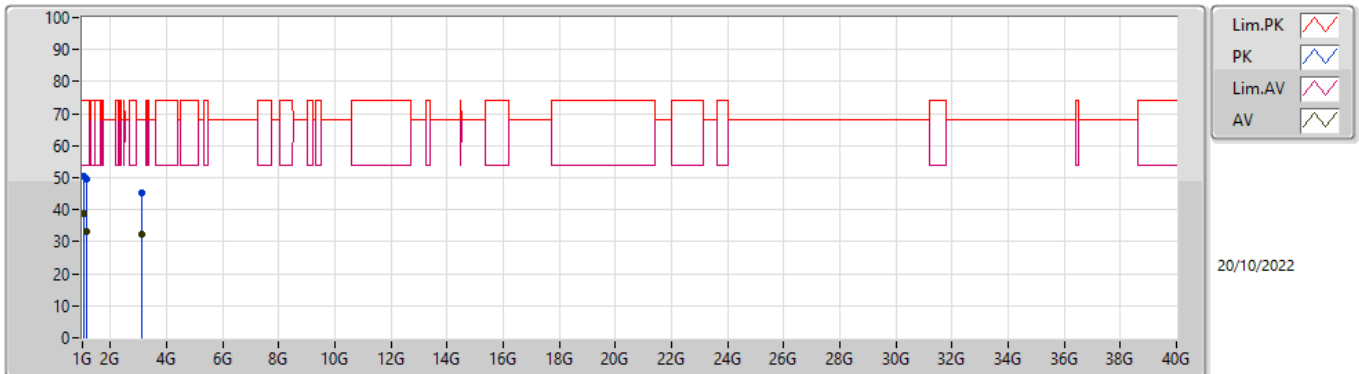
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.06G	40.67	54.00	-13.33	-2.93	3	Horizontal	342	1.50	-	43.60	25.18	5.47	33.58
AV	1.144G	32.97	54.00	-21.03	-1.46	3	Horizontal	0	2.97	-	34.43	26.03	5.72	33.21
AV	3.208G	36.76	68.20	-31.44	8.06	3	Horizontal	0	2.52	-	28.70	29.78	8.86	30.58
AV	4.876G	42.82	54.00	-11.18	12.30	3	Horizontal	26	1.00	-	30.52	32.60	9.70	30.00
PK	1.06G	47.04	74.00	-26.96	-2.93	3	Horizontal	342	1.50	-	49.97	25.18	5.47	33.58
PK	1.144G	46.66	74.00	-27.34	-1.46	3	Horizontal	0	2.97	-	48.12	26.03	5.72	33.21
PK	3.208G	46.57	68.20	-21.63	8.06	3	Horizontal	0	2.52	-	38.51	29.78	8.86	30.58
PK	4.876G	47.83	74.00	-26.17	12.30	3	Horizontal	26	1.00	-	35.53	32.60	9.70	30.00

Radiated Emissions above 1GHz_Mode 8



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.06G	38.49	54.00	-15.51	-2.93	3	Vertical	192	2.22	-	41.42	25.18	5.47	33.58
AV	1.408G	29.71	54.00	-24.29	0.33	3	Vertical	74	2.65	-	29.38	25.82	6.56	32.05
AV	3.208G	37.51	68.20	-30.69	8.06	3	Vertical	217	1.00	-	29.45	29.78	8.86	30.58
PK	1.06G	44.94	74.00	-29.06	-2.93	3	Vertical	192	2.22	-	47.87	25.18	5.47	33.58
PK	1.408G	47.08	74.00	-26.92	0.33	3	Vertical	74	2.65	-	46.75	25.82	6.56	32.05
PK	3.208G	47.48	68.20	-20.72	8.06	3	Vertical	217	1.00	-	39.42	29.78	8.86	30.58

Radiated Emissions above 1GHz_Mode 8



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.06G	38.90	54.00	-15.10	-2.93	3	Horizontal	161	2.00	-	41.83	25.18	5.47	33.58
AV	1.168G	33.27	54.00	-20.73	-1.22	3	Horizontal	11	3.00	-	34.49	26.10	5.79	33.11
AV	3.136G	32.30	68.20	-35.90	7.95	3	Horizontal	266	1.50	-	24.35	29.77	8.80	30.62
PK	1.06G	50.25	74.00	-23.75	-2.93	3	Horizontal	161	2.00	-	53.18	25.18	5.47	33.58
PK	1.168G	49.46	74.00	-24.54	-1.22	3	Horizontal	11	3.00	-	50.68	26.10	5.79	33.11
PK	3.136G	45.39	68.20	-22.81	7.95	3	Horizontal	266	1.50	-	37.44	29.77	8.80	30.62