

NCC Test Report

Equipment : 藍牙耳機
Brand Name : Silicon Power
Model Name : BP80
Applicant : 廣穎電通股份有限公司
台北市 114 內湖區洲子街 106 號 7 樓
Manufacturer : 東莞市和樂電子有限公司
中國廣東省東莞市道滘鎮大嶺丫工業區
Standard : LP0002 Section 4.10 (2020-07-01)

The product was received on Dec. 14, 2020, and testing was started from Feb. 04, 2021 and completed on Feb. 09, 2021. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications 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. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.



Approved by: Allen Lin

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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

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History of this test report

[illegible]

Summary of Test Result

Report Clause	Ref.Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	4.10.1.4	Antenna Requirement	PASS	-
3.1	3.3	AC Power-line Conducted Emissions	PASS	-
3.2	4.10.1.6	DTS Bandwidth	PASS	-
3.3	4.10.1.2	Maximum Conducted Output Power	PASS	-
3.4	4.10.1.6	Power Spectral Density	PASS	-
3.5	4.10.1.5	Emissions in Non-restricted Frequency Bands	PASS	-
3.6	4.10.1.5	Emissions in Restricted Frequency Bands	PASS	-
3.7	3.9	Receiver Radiated Unwanted Emissions	PASS	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and explanations:

None

Reviewed by: Sam Tsai

Report Producer: Michelle Tsai

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	Bluetooth Mode	Ch. Frequency (MHz)	Channel Number
2400-2483.5	LE	2402-2480	0-39 [40]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	BT-LE(1Mbps)	1.0	1TX

Note:

- ♦ Bluetooth LE uses a GFSK (1Mbps) modulation.
- ♦ BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	Unictron	CW505	陶瓷天線	N/A	2.2

For BT function:

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

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

1.1.3 EUT Information

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

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
BT-LE(1Mbps)	0.636	1.97	397.5u	3k

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

1.2 Testing Applied Standards

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

- ♦ LP0002 (2020-07-01)
- ♦ ANSI C63.10-2013
- ♦ ANSI C63.4-2014

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

Testing Location			
☒	HWA YA	ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)	
		TEL : 886-3-327-3456	FAX : 886-3-327-0973
☐	JHUBEI	ADD : No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County, Taiwan (R.O.C.)	
		TEL : 886-3-656-9065	FAX : 886-3-656-9085
☒	Wen Shan	ADD : No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)	
		TEL : 886-3-318-0787	FAX : 886-3-318-0287

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO01-HY	Daniel Lin	21.3~22.8°C/51~57%	09/Feb/2021
RF Conducted	TH01-HY	Vivi Jiang	20.1~26.9°C/50~60%	08/Feb/2021
Radiated	03CH09-HY	Frank Hsieh	20.7~21.0°C/58~66%	04/Feb/2021~08/Feb/2021

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
Conducted Emission (150kHz ~ 30MHz)	0.9 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	2.4 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.0 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 Condition

RF Conducted	Abbreviation	Remark
TnomVnom	Tnom	20°C
-	Vnom	110V

2.2 Test Channel Mode

Test Software Version	AWRDLAB 1.0.9.2
-----------------------	-----------------

Mode	Power Setting
BT-LE(1Mbps)	-
2402MHz	0x0A
2440MHz	0x09
2480MHz	0x0A

2.3 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
Operating Mode	
1	USB Mode ; TX
2	USB Mode ; RX
3	USB Mode ; USB Charging
4	Adapter Mode ; Adapter Charging

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 Receiver Radiated Spurious Emissions		
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			
1	USB Mode ; TX/RX		
2	USB Mode ; USB Charging		
3	Adapter Mode ; Adapter Charging		
Operating Mode > 1GHz			
1	USB Mode ; TX/RX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT		V	

2.4 Accessories

Accessories				
Charging Box	Brand Name	SP	Model Name	BP80
	Power Rating	input: 5Vdc, 400mA ,Capacity:300mAh,Earbud input:5Vdc,500mA		
Charging Box Battery	Brand Name	小鋰	Model Name	602528
Earphone Battery	Brand Name	弘捷	Model Name	541112A
USB-Type C Cable	Brand Name	XiangYiXin Co , Ltd	Model Name	BP80 Cable
	Signal Line	0.3 meter, shielded cable, w/o ferrite core		

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

2.5 Support Equipment

Support Equipment – AC Conduction and Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	HP	ProBook	-	-
2	AC Adapter for NB	HP	PPP012L-E	-	-
3	AC Power Cable for NB	Power Sync	TPCMRN0018	-	-
4	Mouse	lenovo	MOGOUO	-	-
5	iPod	APPLE	A1199	-	-
6	30-pin to USB Original Cable	APPLE	MA591G/C	-	-
7	Adapter for EUT	Apple	A1385	-	-
8	USB Cable	Data Target	USB_QCC_001	-	Note 1
9	Test Fixture	Feasycom	DB006-BT630-USB	-	Note 1

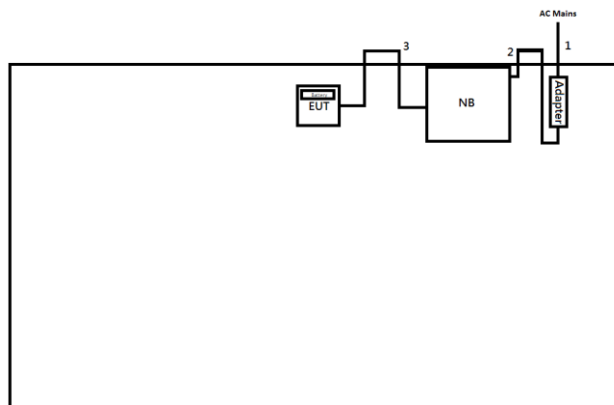
Note 1: Support equipment was provided by customer.

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-
3	Test Fixture	Feasycom	DB006-BT630-USB	-	Note 1

Note 1: Support equipment was provided by customer.

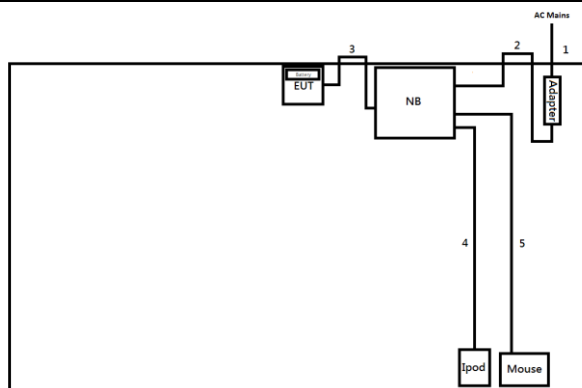
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test – Mode 1 (TX)

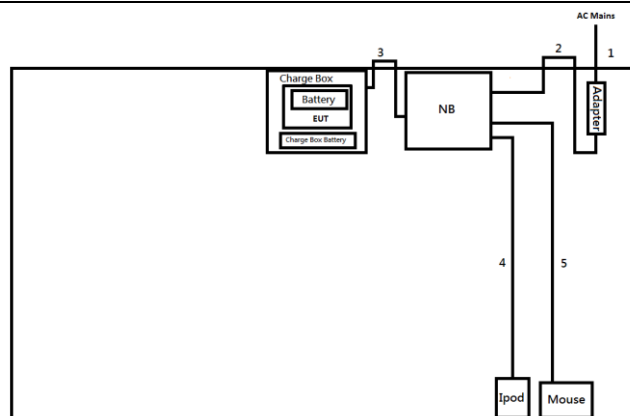


Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	DC Power Cable	No	1.5	-
3	USB Cable	Yes	1.8	-

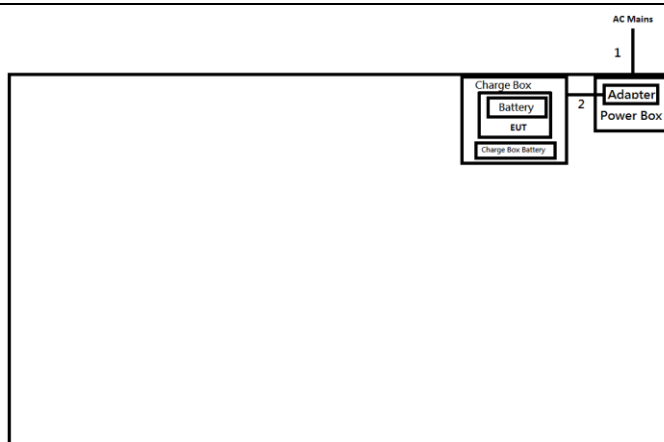
Test Setup Diagram – AC Line Conducted Emission Test – Mode 2 (RX)



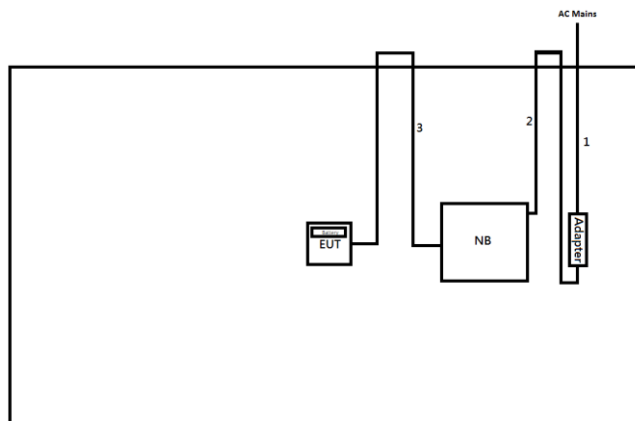
Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	DC Power Cable	No	1.5	-
3	USB Cable	Yes	1.8	-
4	30-pin to USB Original Cable	No	1.0	-
5	USB Cable	No	1.25	-

Test Setup Diagram – AC Line Conducted Emission Test – Mode 3


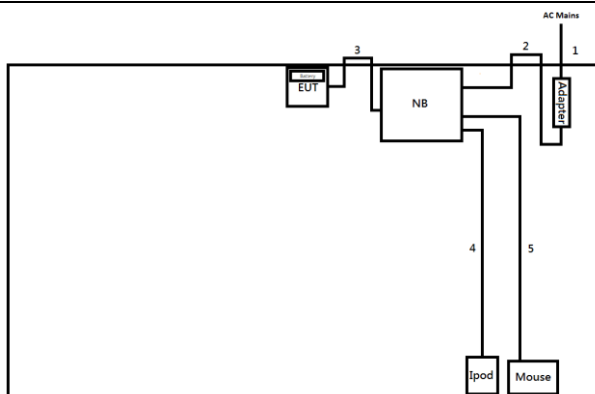
Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	DC Power cable	No	1.5	-
3	USB cable	Yes	0.3	-
4	30-pin to USB Original Cable	No	1.0	-
5	USB Cable	No	1.25	-

Test Setup Diagram – AC Line Conducted Emission Test – Mode 4


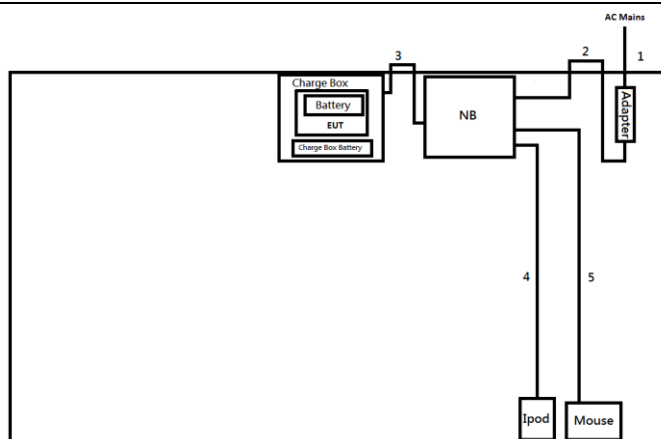
Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	USB Cable	Yes	0.3	-

Test Setup Diagram - Radiated Test – Mode 1 (TX)


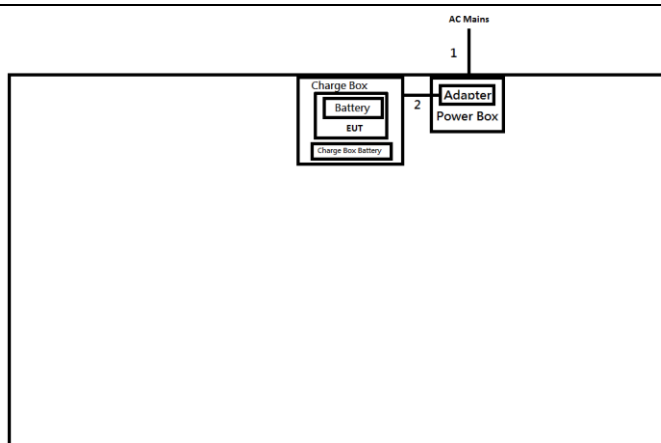
Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	DC Power Cable	No	1.5	-
3	USB Cable	Yes	1.8	-

Test Setup Diagram - Radiated Test – Mode 1 (RX)


Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	DC Power Cable	No	1.5	-
3	USB Cable	Yes	1.8	-
4	30-pin to USB Original Cable	No	1.0	-
5	USB Cable	No	1.25	-

Test Setup Diagram - Radiated Test – Mode 2


Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	DC Power Cable	No	1.5	-
3	USB Cable	Yes	0.3	-
4	30-pin to USB Original Cable	No	1.0	-
5	USB Cable	No	1.25	-

Test Setup Diagram - Radiated Test – Mode 3


Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	USB Cable	Yes	0.3	-

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

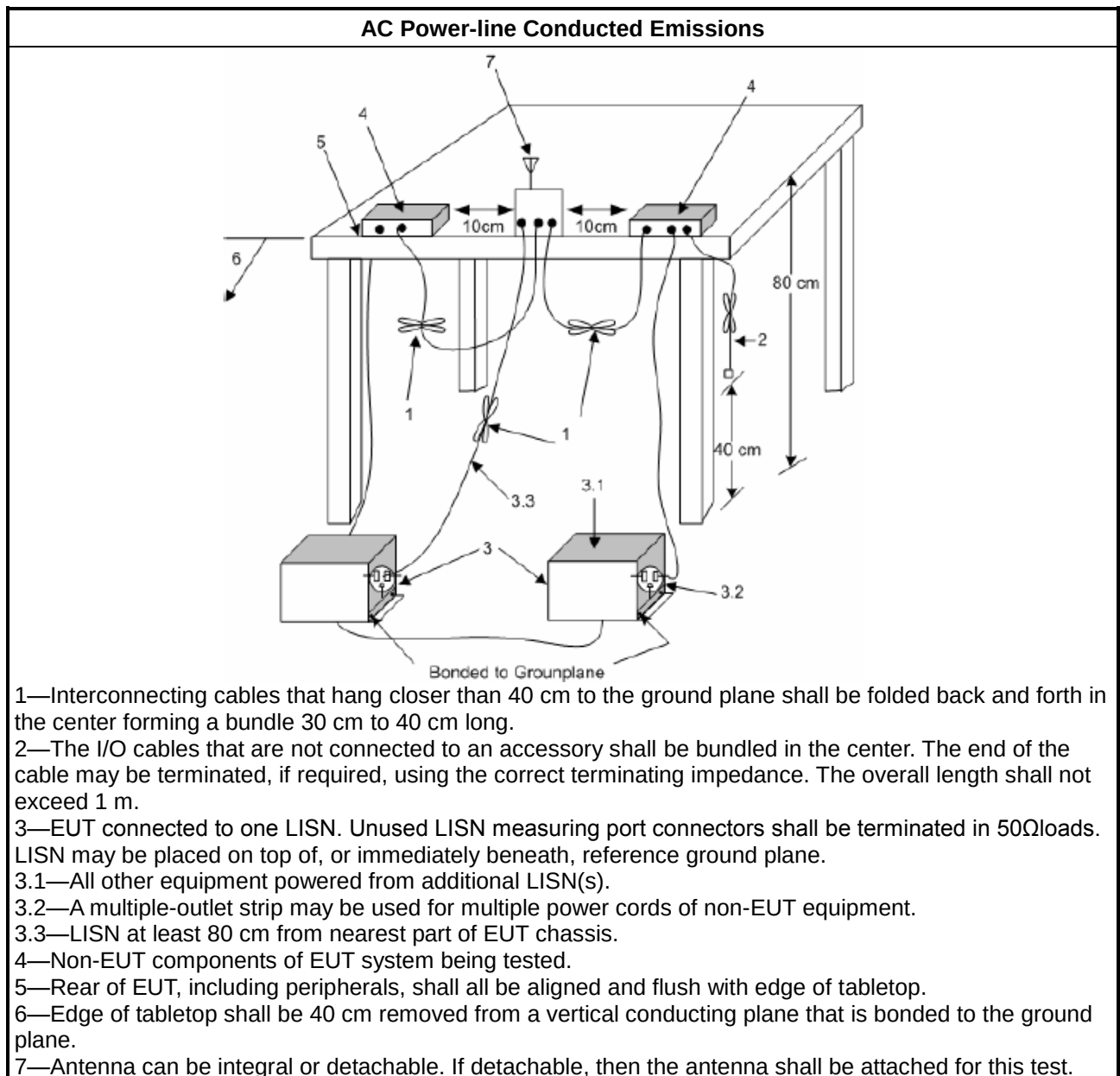
Test Method
▪ Refer as ANSI C63.10-2013, clause 6.2 foray power-line conducted emissions.

3.1.4 Measurement Results Calculation

The measured Level is calculated using:

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

3.1.5 Test Setup



3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

6dB Bandwidth Limit	
Systems using digital modulation techniques:	
▪	6 dB bandwidth $\geq$ 500 kHz.

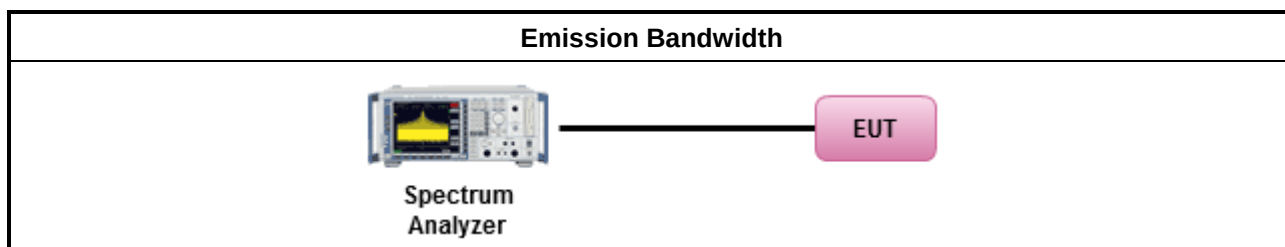
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
▪ For the emission bandwidth shall be measured using one of the options below:	
☒	Refer as KDB 558074, clause 8.2 (11.8 of ANSI C63.10) DTS bandwidth measurement.
☐	Refer as RSS-Gen, clause 6.7 for occupied bandwidth testing.
☐	Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
	<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_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

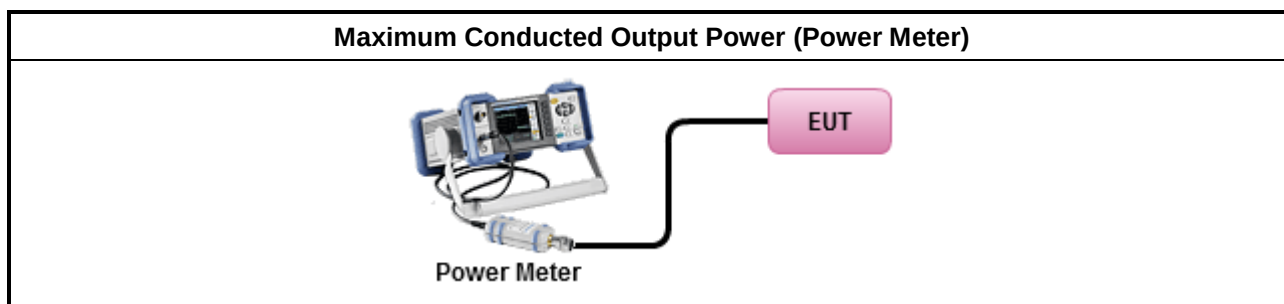
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> Maximum Peak Conducted Output Power 	
☐	Refer as KDB 558074, clause 8.3.1.1 (11.9.1.1 of ANSI C63.10) RBW ≥ EBW method.
☐	Refer as KDB 558074, clause 8.3.1.2 (11.9.1.2 of ANSI C63.10) integrated band power method.
☐	Refer as KDB 558074, clause 8.3.1.3 (11.9.1.3 of ANSI C63.10) peak power meter.
<ul style="list-style-type: none"> Maximum Average Conducted Output Power 	
☐	Refer as KDB 558074, clause 8.3.2.2 (11.9.2.2 of ANSI C63.10) using a spectrum analyzer.
☒	Refer as KDB 558074, clause 8.3.2.3 (11.9.2.3 of ANSI C63.10) using a power meter.
<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

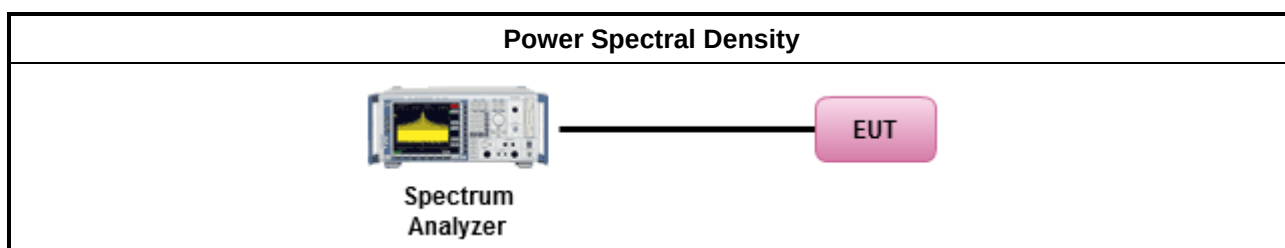
3.4.2 Measuring Instruments

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).
☒ 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
<p>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.</p> <p>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.</p>	

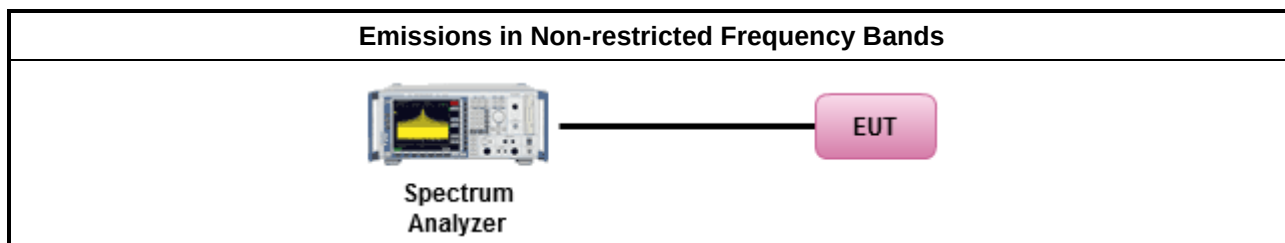
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

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

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

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

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

3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

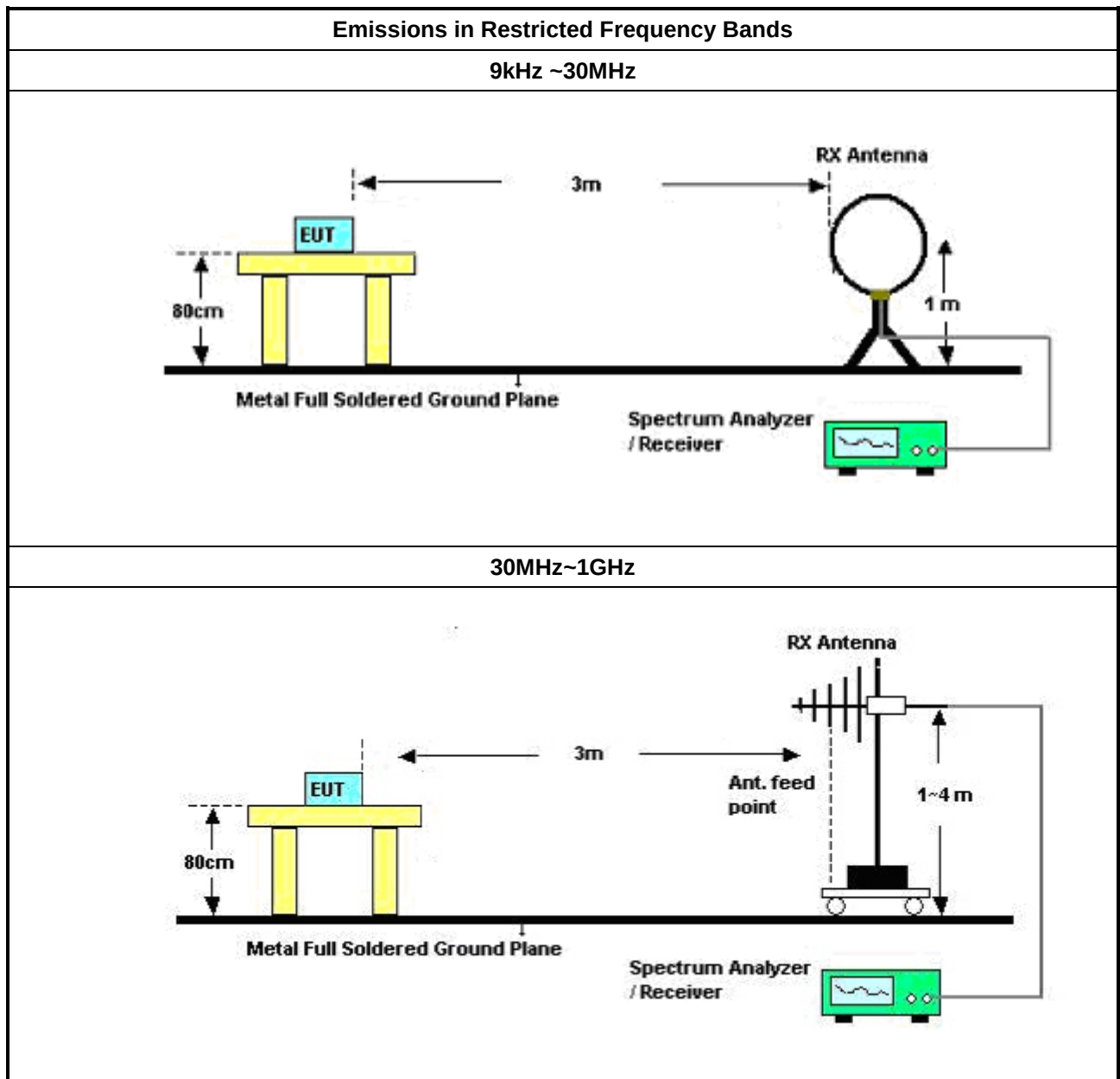
Test Method	
<ul style="list-style-type: none"> The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor]. 	
<ul style="list-style-type: none"> Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band. 	
<ul style="list-style-type: none"> For the transmitter unwanted emissions shall be measured using following options below: 	
	<ul style="list-style-type: none"> Refer as KDB 558074, clause 8.6 (11.12 of ANSI C63.10) for restricted frequency bands.
<ul style="list-style-type: none"> For the transmitter band-edge emissions shall be measured using following options below: 	
	<ul style="list-style-type: none"> Refer as KDB 558074 clause 8.7.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.
	<ul style="list-style-type: none"> Refer as KDB 558074, clause 8.7.2 (6.10.6 of ANSI C63.10) for marker-delta method for band-edge measurements.
	<ul style="list-style-type: none"> Refer as KDB 558074, clause 8.7.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels.
<ul style="list-style-type: none"> Use the following spectrum analyzer settings: 	
	<ul style="list-style-type: none"> Set RBW=100 kHz for $f < 1$ GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.
	<ul style="list-style-type: none"> Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement. For average measurement, refer as 1.1.4.
<ul style="list-style-type: none"> KDB 414788 Open-Field Test Sites and Chamber Correlation Justification. 	
	<ul style="list-style-type: none"> Based on LP0002 6.5.2: 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.
	<ul style="list-style-type: none"> Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

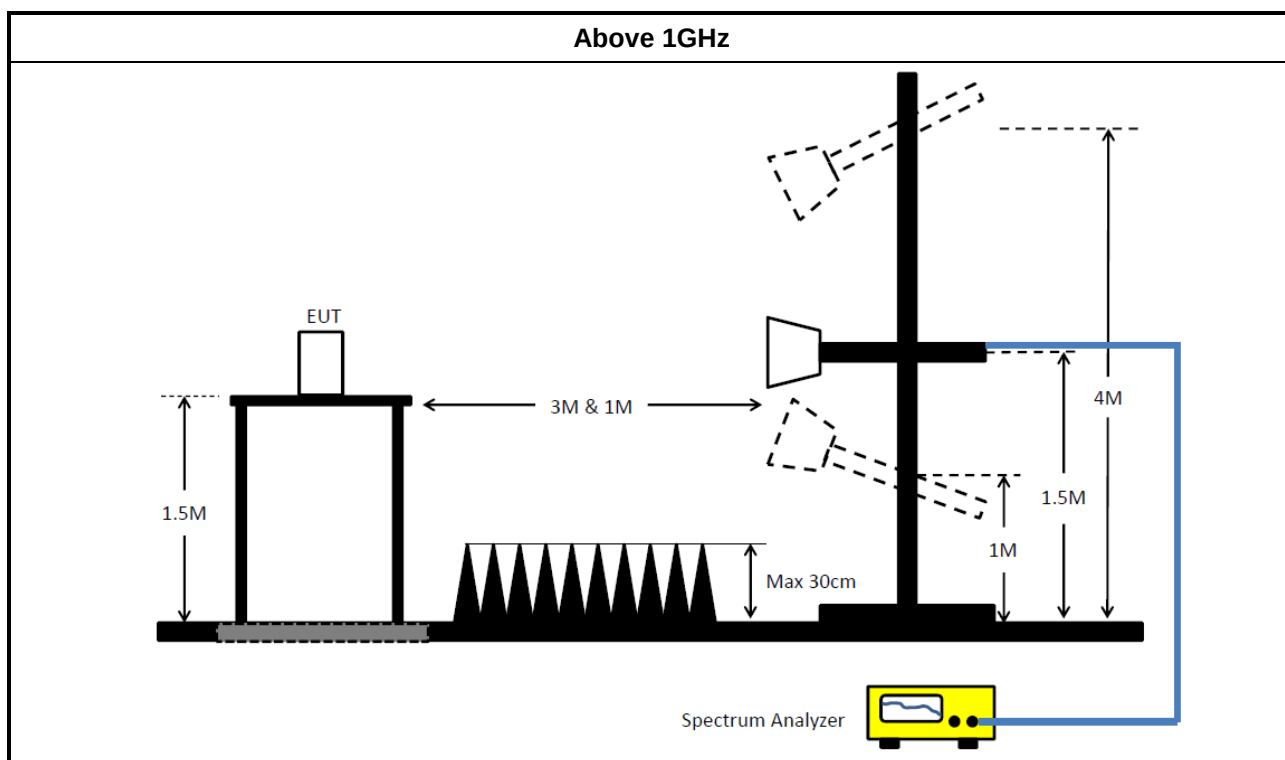
3.6.4 Measurement Results Calculation

The measured Level is calculated using:

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

3.6.5 Test Setup





3.6.6 Test Result of Emissions in Restricted Frequency Bands (Below 30MHz)

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F

3.7 Receiver Radiated Spurious Emissions

3.7.1 Receiver in Radiated Spurious Emissions Limit

Restricted Spurious 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.

3.7.2 Measuring Instruments

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

3.7.3 Test Procedures

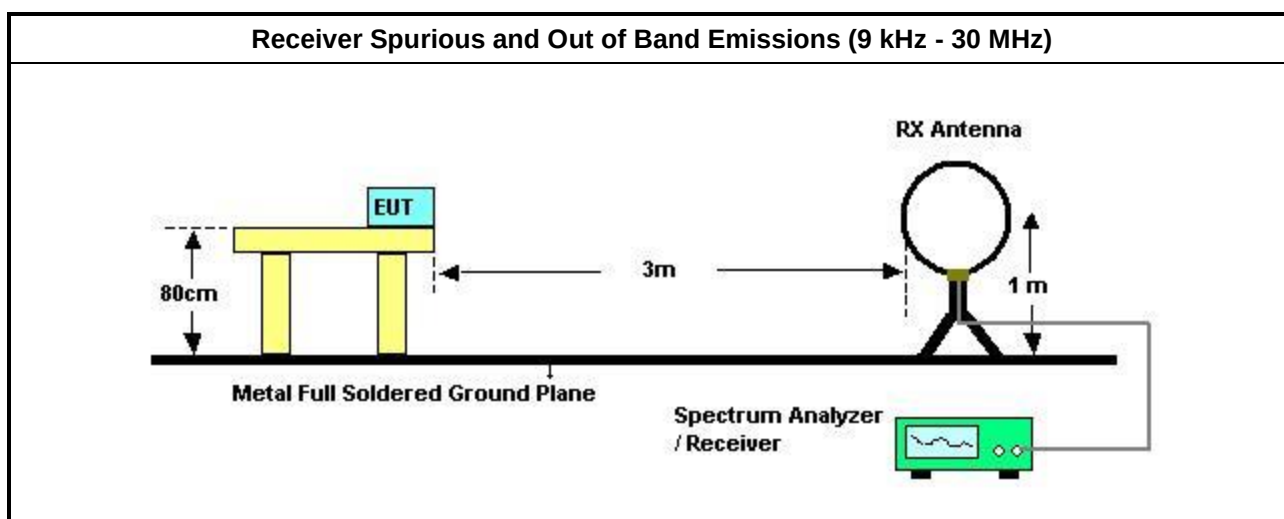
Test Method	
☒	The search for spurious emissions shall be from the lowest frequency internally generated or used in the receiver (e.g. local oscillator, intermediate or carrier frequency), or 30 MHz, whichever is higher, to at least 3 times the highest tuneable or local oscillator frequency, whichever is higher, without exceeding 40 GHz.
☒	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).
☒	For radiated measurement, refer as ANSI C63.4, clause 8.3.
☒	Refer as ANSI C63.4, clause 8.3.1.1 and 8.3.2.1 for radiated emissions from below 30 MHz.
☒	Refer as ANSI C63.4, clause 8.3.1.1 and 8.3.2.1 for radiated emissions from 30 MHz-1 GHz. For the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the QP-Limit so that the QP level does not need to be reported in addition.
☒	Refer as ANSI C63.4, clause 8.3.1.2 and 8.3.2.2 for radiated emissions from above 1 GHz. For the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
☒	All amplitude of spurious emissions that are attenuated by more than 30 dB below the permissible value has no need to be reported.

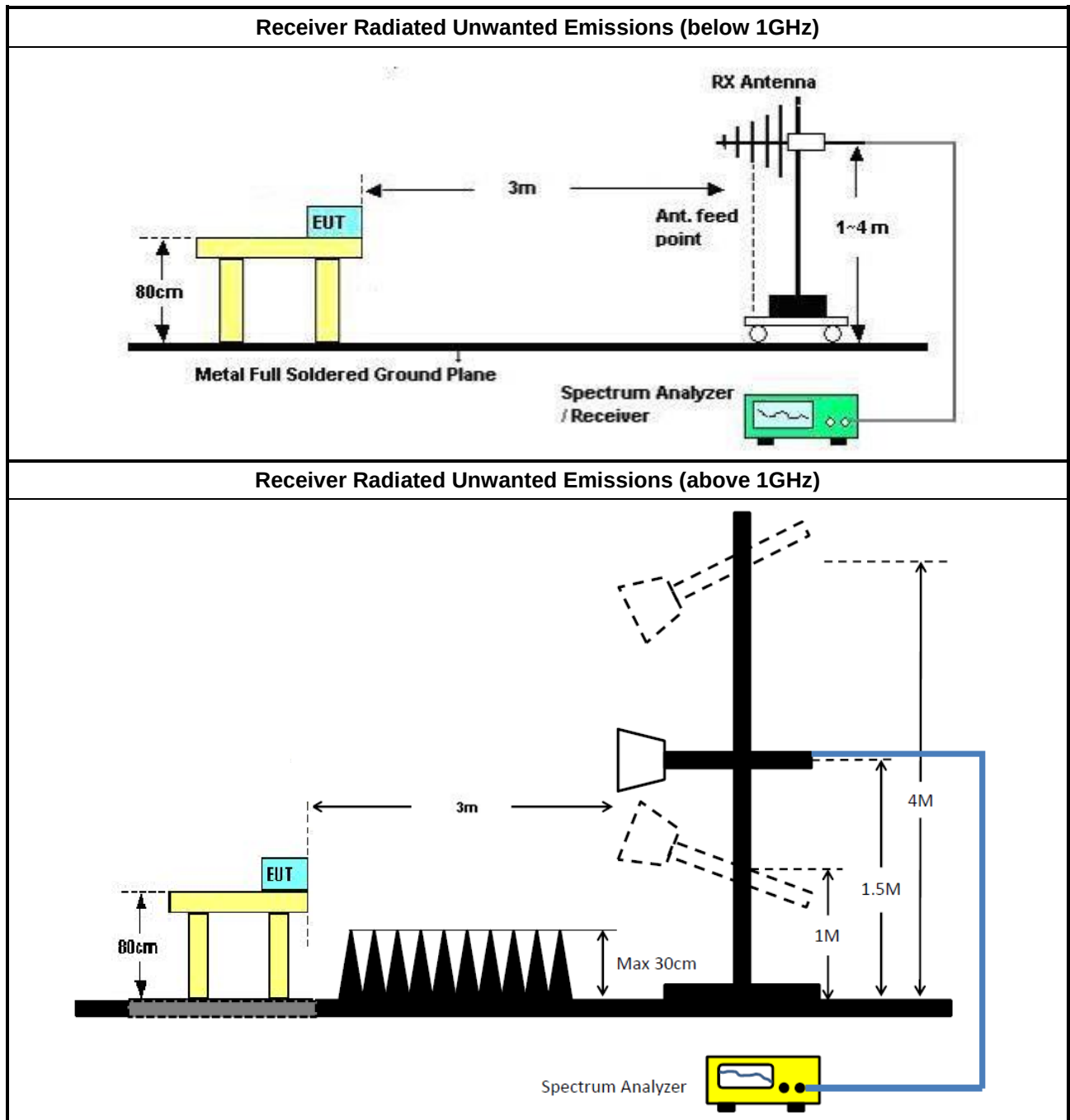
3.7.4 Measurement Results Calculation

The measured Level is calculated using:

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

3.7.5 Test Setup





3.7.6 Receiver Radiated Unwanted Emissions (Below 30MHz)

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

3.7.7 Test Result of Receiver Radiated Unwanted Emissions

Refer as Appendix G

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	102052	9kHz ~ 3.6GHz	09/Apr/2020	08/Apr/2021
Two-Line V Network (LISN)	R&S	ENV 216	101274	9kHz ~ 30MHz	10/Jun/2020	09/Jun/2021
Cable	MTJ	RG 142	CO01-cable-01	100kHz ~ 1GHz	13/Jul/2020	12/Jul/2021
Pulse Limiter	SCHWARZBECK	VTSD 9561F	9495	9kHz ~ 30MHz	21/Sep/2020	20/Sep/2021

Instrument for Radiated Test

Instrument	Manufacturer/ Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	30MHz~1GHz 3m	27/Mar/2020	26/Mar/2021
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	1GHz~18GHz 3m	19/Mar/2020	18/Mar/2021
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200885	10Hz~44GHz	11/Aug/2020	10/Aug/2021
Amplifier	EMC	EMC9135	980232	9kHz~1GHz	14/Apr/2020	13/Apr/2021
Microwave Preamplifier	Agilent	8449B	3008A02096	1GHz~26.5GHz	24/Jul/2020	23/Jul/2021
Bilog Antenna & 5dB Attenuator	TESEQ & MTJ	CBL6111D&MT J6102-05	35418 & 3	30MHz~1GHz	06/Sep/2020	05/Sep/2021
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA9120 D 1534	1GHz~18GHz	28/May/2020	27/May/2021
RF Cable-low	Jye Bao	RG142	CB031+324530/4	9kHz~30MHz	03/Sep/2020	02/Sep/2021
RF Cable-low	Jye Bao	RG142	CB031+324530/4	30MHz~1GHz	12/Feb/2020	11/Feb/2021
RF CABLE 5m+3m+1m	HUBER+SUHNER	SUCOFLEX104	SN MY25918/4+ SN MY39478/4 + SN 324530/4	1GHz~40GHz	15/Aug/2020	14/Aug/2021
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	18GHz~40GHz	13/Mar/2020	12/Mar/2021
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	16/Mar/2020	15/Mar/2021
EMI Test Receiver	R&S	ESR3	102051	9kHz~3.6GHz	29/May/2020	28/May/2021

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	19/Mar/2020	18/Mar/2021
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	20/Oct/2020	19/Oct/2021
Pulse Sensor	Anritsu	MA2411B	917017	300MHz~40GHz	17/Feb/2020	16/Feb/2021
Power Meter	Anritsu	ML2495A	949003	300MHz~40GHz	17/Feb/2020	16/Feb/2021

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	151.202k	59.41	65.92	-6.51	Line
Mode 2	Pass	QP	151.202k	57.43	65.92	-8.49	Neutral
Mode 3	Pass	QP	152.414k	56.59	65.87	-9.28	Neutral
Mode 4	Pass	AV	798.945k	25.68	46.00	-20.32	Line

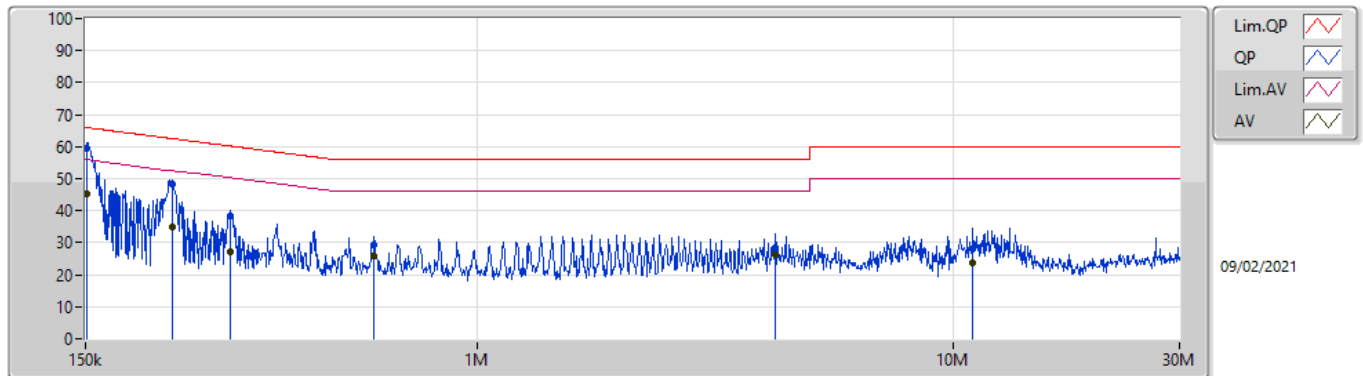
Mode Configure

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	151.202k	59.41	65.92	-6.51	Line	-
Mode 1	Pass	AV	151.202k	45.26	55.92	-10.66	Line	-
Mode 1	Pass	QP	228.103k	48.25	62.52	-14.27	Line	-
Mode 1	Pass	AV	228.103k	34.88	52.52	-17.64	Line	-
Mode 1	Pass	QP	302.848k	38.56	60.17	-21.61	Line	-
Mode 1	Pass	AV	302.848k	27.22	50.17	-22.95	Line	-
Mode 1	Pass	QP	606.584k	29.22	56.00	-26.78	Line	-
Mode 1	Pass	AV	606.584k	25.73	46.00	-20.27	Line	-
Mode 1	Pass	QP	4.238M	28.50	56.00	-27.50	Line	-
Mode 1	Pass	AV	4.238M	26.36	46.00	-19.64	Line	-
Mode 1	Pass	QP	11.048M	28.16	60.00	-31.84	Line	-
Mode 1	Pass	AV	11.048M	23.81	50.00	-26.19	Line	-
Mode 1	Pass	QP	152.414k	58.88	65.87	-6.99	Neutral	-
Mode 1	Pass	AV	152.414k	44.75	55.87	-11.12	Neutral	-
Mode 1	Pass	QP	228.103k	48.27	62.52	-14.25	Neutral	-
Mode 1	Pass	AV	228.103k	34.86	52.52	-17.66	Neutral	-
Mode 1	Pass	QP	302.848k	38.32	60.17	-21.85	Neutral	-
Mode 1	Pass	AV	302.848k	26.95	50.17	-23.22	Neutral	-
Mode 1	Pass	QP	456.875k	30.00	56.75	-26.75	Neutral	-
Mode 1	Pass	AV	456.875k	22.54	46.75	-24.21	Neutral	-
Mode 1	Pass	QP	1.892M	29.39	56.00	-26.61	Neutral	-
Mode 1	Pass	AV	1.892M	27.32	46.00	-18.68	Neutral	-
Mode 1	Pass	QP	11.967M	31.02	60.00	-28.98	Neutral	-
Mode 1	Pass	AV	11.967M	26.89	50.00	-23.11	Neutral	-
Mode 2	Pass	QP	150.6k	57.42	65.96	-8.54	Line	-
Mode 2	Pass	AV	150.6k	42.95	55.96	-13.01	Line	-
Mode 2	Pass	QP	229.015k	47.09	62.48	-15.39	Line	-
Mode 2	Pass	AV	229.015k	33.73	52.48	-18.75	Line	-
Mode 2	Pass	QP	305.276k	37.98	60.09	-22.11	Line	-
Mode 2	Pass	AV	305.276k	26.89	50.09	-23.20	Line	-
Mode 2	Pass	QP	531.714k	31.98	56.00	-24.02	Line	-
Mode 2	Pass	AV	531.714k	27.84	46.00	-18.16	Line	-
Mode 2	Pass	QP	2.357M	30.41	56.00	-25.59	Line	-
Mode 2	Pass	AV	2.357M	28.44	46.00	-17.56	Line	-
Mode 2	Pass	QP	11.637M	31.22	60.00	-28.78	Line	-
Mode 2	Pass	AV	11.637M	25.35	50.00	-24.65	Line	-
Mode 2	Pass	QP	151.202k	57.43	65.92	-8.49	Neutral	-
Mode 2	Pass	AV	151.202k	43.03	55.92	-12.89	Neutral	-
Mode 2	Pass	QP	229.015k	46.99	62.48	-15.49	Neutral	-
Mode 2	Pass	AV	229.015k	33.58	52.48	-18.90	Neutral	-
Mode 2	Pass	QP	302.848k	37.40	60.17	-22.77	Neutral	-

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 2	Pass	AV	302.848k	26.31	50.17	-23.86	Neutral	-
Mode 2	Pass	QP	1.977M	30.45	56.00	-25.55	Neutral	-
Mode 2	Pass	AV	1.977M	28.71	46.00	-17.29	Neutral	-
Mode 2	Pass	QP	3.499M	27.61	56.00	-28.39	Neutral	-
Mode 2	Pass	AV	3.499M	25.52	46.00	-20.48	Neutral	-
Mode 2	Pass	QP	12.705M	32.08	60.00	-27.92	Neutral	-
Mode 2	Pass	AV	12.705M	27.79	50.00	-22.21	Neutral	-
Mode 3	Pass	QP	153.024k	56.31	65.83	-9.52	Line	-
Mode 3	Pass	AV	153.024k	41.50	55.83	-14.33	Line	-
Mode 3	Pass	QP	227.194k	46.30	62.56	-16.26	Line	-
Mode 3	Pass	AV	227.194k	32.28	52.56	-20.28	Line	-
Mode 3	Pass	QP	304.059k	38.16	60.13	-21.97	Line	-
Mode 3	Pass	AV	304.059k	26.36	50.13	-23.77	Line	-
Mode 3	Pass	QP	1.826M	30.24	56.00	-25.76	Line	-
Mode 3	Pass	AV	1.826M	28.90	46.00	-17.10	Line	-
Mode 3	Pass	QP	2.283M	28.55	56.00	-27.45	Line	-
Mode 3	Pass	AV	2.283M	26.98	46.00	-19.02	Line	-
Mode 3	Pass	QP	12.705M	30.12	60.00	-29.88	Line	-
Mode 3	Pass	AV	12.705M	25.08	50.00	-24.92	Line	-
Mode 3	Pass	QP	152.414k	56.59	65.87	-9.28	Neutral	-
Mode 3	Pass	AV	152.414k	41.69	55.87	-14.18	Neutral	-
Mode 3	Pass	QP	227.194k	46.44	62.56	-16.12	Neutral	-
Mode 3	Pass	AV	227.194k	32.29	52.56	-20.27	Neutral	-
Mode 3	Pass	QP	305.276k	37.63	60.09	-22.46	Neutral	-
Mode 3	Pass	AV	305.276k	26.09	50.09	-24.00	Neutral	-
Mode 3	Pass	QP	535.976k	28.39	56.00	-27.61	Neutral	-
Mode 3	Pass	AV	535.976k	23.16	46.00	-22.84	Neutral	-
Mode 3	Pass	QP	1.826M	30.53	56.00	-25.47	Neutral	-
Mode 3	Pass	AV	1.826M	29.19	46.00	-16.81	Neutral	-
Mode 3	Pass	QP	12.554M	30.06	60.00	-29.94	Neutral	-
Mode 3	Pass	AV	12.554M	25.20	50.00	-24.80	Neutral	-
Mode 4	Pass	QP	163.117k	30.04	65.31	-35.27	Line	-
Mode 4	Pass	AV	163.117k	17.86	55.31	-37.45	Line	-
Mode 4	Pass	QP	238.343k	24.65	62.16	-37.51	Line	-
Mode 4	Pass	AV	238.343k	15.74	52.16	-36.42	Line	-
Mode 4	Pass	QP	248.05k	24.92	61.81	-36.89	Line	-
Mode 4	Pass	AV	248.05k	16.42	51.81	-35.39	Line	-
Mode 4	Pass	QP	798.945k	32.39	56.00	-23.61	Line	-
Mode 4	Pass	AV	798.945k	25.68	46.00	-20.32	Line	-
Mode 4	Pass	QP	4.74M	21.80	56.00	-34.20	Line	-
Mode 4	Pass	AV	4.74M	18.47	46.00	-27.53	Line	-
Mode 4	Pass	QP	11.637M	20.18	60.00	-39.82	Line	-
Mode 4	Pass	AV	11.637M	17.32	50.00	-32.68	Line	-
Mode 4	Pass	QP	244.12k	22.46	61.95	-39.49	Neutral	-
Mode 4	Pass	AV	244.12k	17.15	51.95	-34.80	Neutral	-
Mode 4	Pass	QP	371.231k	26.95	58.47	-31.52	Neutral	-
Mode 4	Pass	AV	371.231k	20.45	48.47	-28.02	Neutral	-
Mode 4	Pass	QP	421.816k	30.27	57.41	-27.14	Neutral	-
Mode 4	Pass	AV	421.816k	23.05	47.41	-24.36	Neutral	-
Mode 4	Pass	QP	755.518k	18.39	56.00	-37.61	Neutral	-

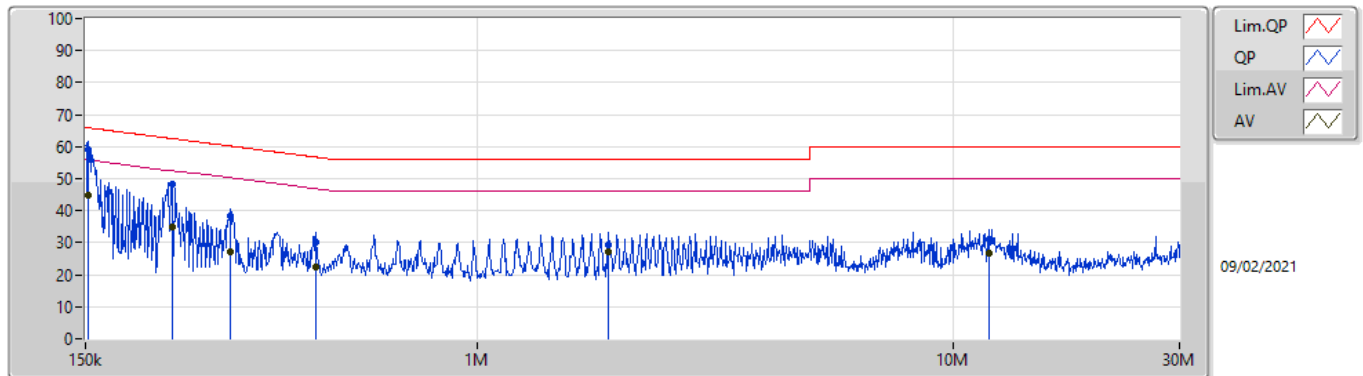
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 4	Pass	AV	755.518k	14.65	46.00	-31.35	Neutral	-
Mode 4	Pass	QP	2.512M	14.73	56.00	-41.27	Neutral	-
Mode 4	Pass	AV	2.512M	13.03	46.00	-32.97	Neutral	-
Mode 4	Pass	QP	10.282M	15.99	60.00	-44.01	Neutral	-
Mode 4	Pass	AV	10.282M	14.51	50.00	-35.49	Neutral	-

Conducted Emissions at Powerline_Mode 1



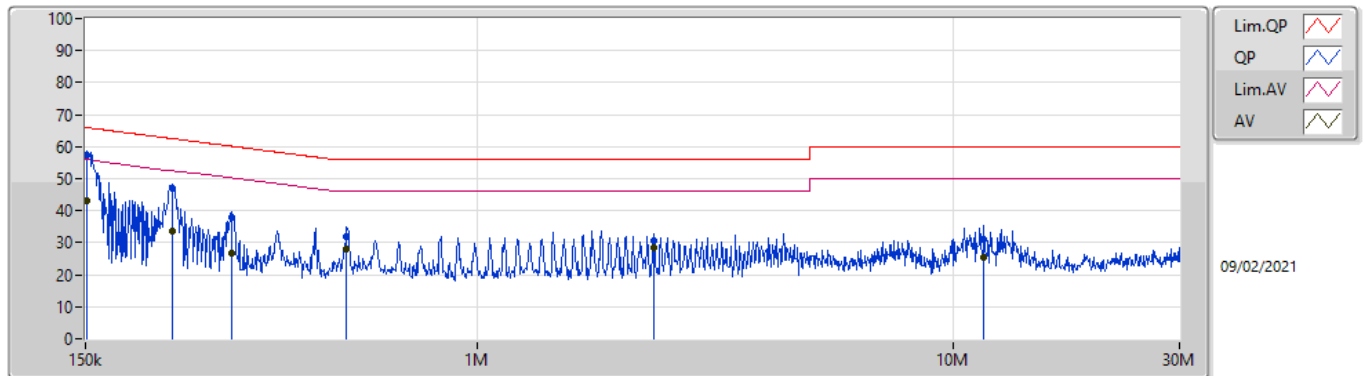
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	151.202k	59.41	65.92	-6.51	19.40	Line	-	40.01	9.68	0.02	9.70			
AV	151.202k	45.26	55.92	-10.66	19.40	Line	-	25.86	9.68	0.02	9.70			
QP	228.103k	48.25	62.52	-14.27	19.39	Line	-	28.86	9.67	0.02	9.70			
AV	228.103k	34.88	52.52	-17.64	19.39	Line	-	15.49	9.67	0.02	9.70			
QP	302.848k	38.56	60.17	-21.61	19.39	Line	-	19.17	9.67	0.02	9.70			
AV	302.848k	27.22	50.17	-22.95	19.39	Line	-	7.83	9.67	0.02	9.70			
QP	606.584k	29.22	56.00	-26.78	19.40	Line	-	9.82	9.67	0.03	9.70			
AV	606.584k	25.73	46.00	-20.27	19.40	Line	-	6.33	9.67	0.03	9.70			
QP	4.238M	28.50	56.00	-27.50	19.51	Line	-	8.99	9.69	0.12	9.70			
AV	4.238M	26.36	46.00	-19.64	19.51	Line	-	6.85	9.69	0.12	9.70			
QP	11.048M	28.16	60.00	-31.84	19.61	Line	-	8.55	9.71	0.20	9.70			
AV	11.048M	23.81	50.00	-26.19	19.61	Line	-	4.20	9.71	0.20	9.70			

Conducted Emissions at Powerline_Mode 1



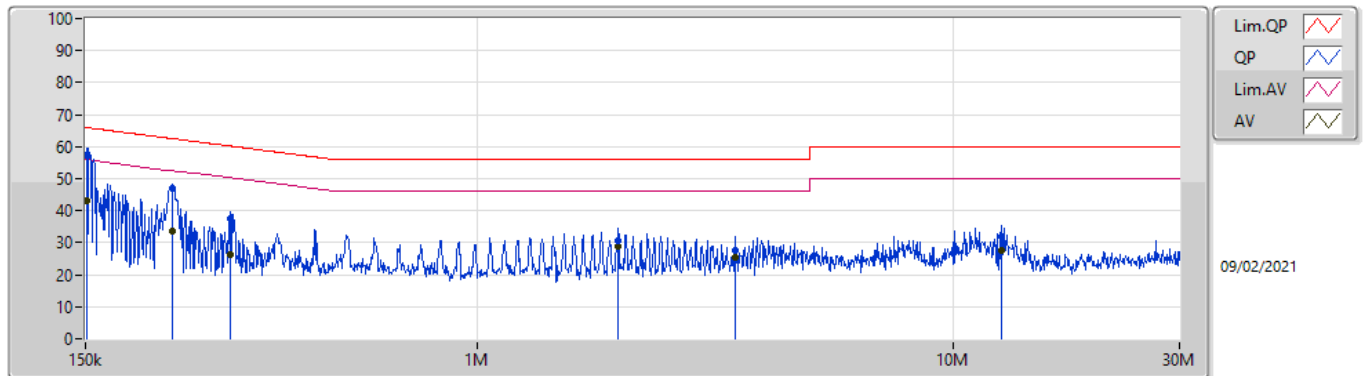
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	152.414k	58.88	65.87	-6.99	19.39	Neutral	-	39.49	9.67	0.02	9.70			
AV	152.414k	44.75	55.87	-11.12	19.39	Neutral	-	25.36	9.67	0.02	9.70			
QP	228.103k	48.27	62.52	-14.25	19.38	Neutral	-	28.89	9.66	0.02	9.70			
AV	228.103k	34.86	52.52	-17.66	19.38	Neutral	-	15.48	9.66	0.02	9.70			
QP	302.848k	38.32	60.17	-21.85	19.37	Neutral	-	18.95	9.65	0.02	9.70			
AV	302.848k	26.95	50.17	-23.22	19.37	Neutral	-	7.58	9.65	0.02	9.70			
QP	456.875k	30.00	56.75	-26.75	19.37	Neutral	-	10.63	9.65	0.02	9.70			
AV	456.875k	22.54	46.75	-24.21	19.37	Neutral	-	3.17	9.65	0.02	9.70			
QP	1.892M	29.39	56.00	-26.61	19.44	Neutral	-	9.95	9.66	0.08	9.70			
AV	1.892M	27.32	46.00	-18.68	19.44	Neutral	-	7.88	9.66	0.08	9.70			
QP	11.967M	31.02	60.00	-28.98	19.63	Neutral	-	11.39	9.72	0.21	9.70			
AV	11.967M	26.89	50.00	-23.11	19.63	Neutral	-	7.26	9.72	0.21	9.70			

Conducted Emissions at Powerline_Mode 2



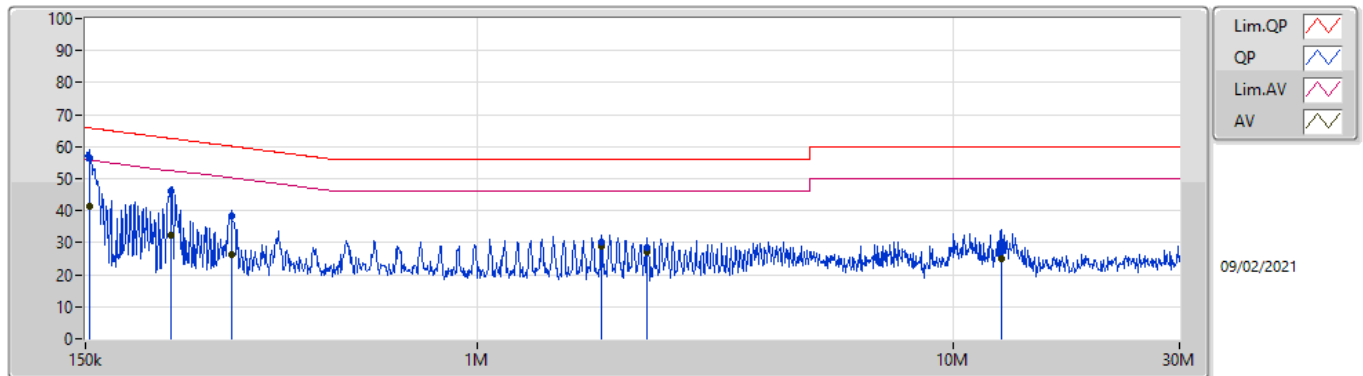
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	150.6k	57.42	65.96	-8.54	19.40	Line	-	38.02	9.68	0.02	9.70			
AV	150.6k	42.95	55.96	-13.01	19.40	Line	-	23.55	9.68	0.02	9.70			
QP	229.015k	47.09	62.48	-15.39	19.39	Line	-	27.70	9.67	0.02	9.70			
AV	229.015k	33.73	52.48	-18.75	19.39	Line	-	14.34	9.67	0.02	9.70			
QP	305.276k	37.98	60.09	-22.11	19.39	Line	-	18.59	9.67	0.02	9.70			
AV	305.276k	26.89	50.09	-23.20	19.39	Line	-	7.50	9.67	0.02	9.70			
QP	531.714k	31.98	56.00	-24.02	19.40	Line	-	12.58	9.67	0.03	9.70			
AV	531.714k	27.84	46.00	-18.16	19.40	Line	-	8.44	9.67	0.03	9.70			
QP	2.357M	30.41	56.00	-25.59	19.47	Line	-	10.94	9.68	0.09	9.70			
AV	2.357M	28.44	46.00	-17.56	19.47	Line	-	8.97	9.68	0.09	9.70			
QP	11.637M	31.22	60.00	-28.78	19.61	Line	-	11.61	9.71	0.20	9.70			
AV	11.637M	25.35	50.00	-24.65	19.61	Line	-	5.74	9.71	0.20	9.70			

Conducted Emissions at Powerline_Mode 2



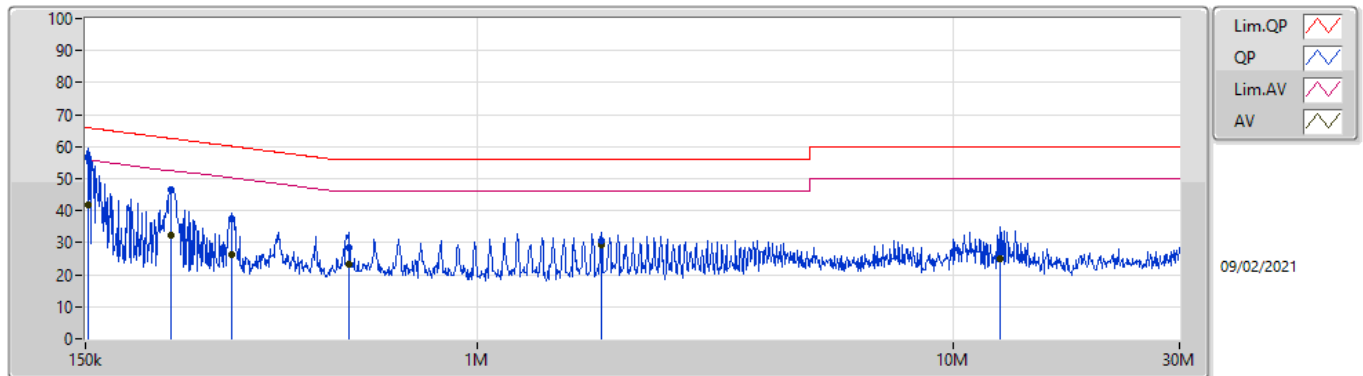
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	151.202k	57.43	65.92	-8.49	19.39	Neutral	-	38.04	9.67	0.02	9.70			
AV	151.202k	43.03	55.92	-12.89	19.39	Neutral	-	23.64	9.67	0.02	9.70			
QP	229.015k	46.99	62.48	-15.49	19.38	Neutral	-	27.61	9.66	0.02	9.70			
AV	229.015k	33.58	52.48	-18.90	19.38	Neutral	-	14.20	9.66	0.02	9.70			
QP	302.848k	37.40	60.17	-22.77	19.37	Neutral	-	18.03	9.65	0.02	9.70			
AV	302.848k	26.31	50.17	-23.86	19.37	Neutral	-	6.94	9.65	0.02	9.70			
QP	1.977M	30.45	56.00	-25.55	19.44	Neutral	-	11.01	9.66	0.08	9.70			
AV	1.977M	28.71	46.00	-17.29	19.44	Neutral	-	9.27	9.66	0.08	9.70			
QP	3.499M	27.61	56.00	-28.39	19.47	Neutral	-	8.14	9.67	0.10	9.70			
AV	3.499M	25.52	46.00	-20.48	19.47	Neutral	-	6.05	9.67	0.10	9.70			
QP	12.705M	32.08	60.00	-27.92	19.63	Neutral	-	12.45	9.72	0.21	9.70			
AV	12.705M	27.79	50.00	-22.21	19.63	Neutral	-	8.16	9.72	0.21	9.70			

Conducted Emissions at Powerline_Mode 3



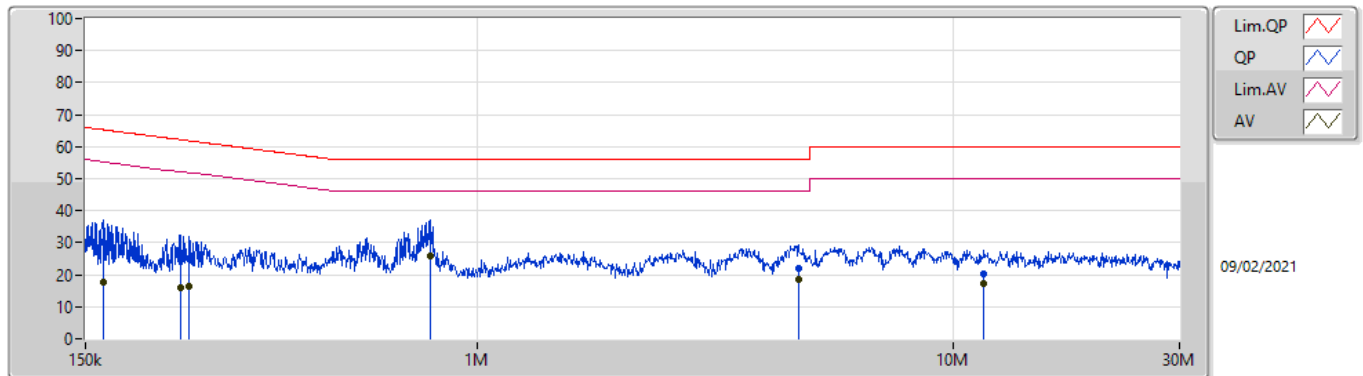
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	153.024k	56.31	65.83	-9.52	19.40	Line	-	36.91	9.68	0.02	9.70			
AV	153.024k	41.50	55.83	-14.33	19.40	Line	-	22.10	9.68	0.02	9.70			
QP	227.194k	46.30	62.56	-16.26	19.39	Line	-	26.91	9.67	0.02	9.70			
AV	227.194k	32.28	52.56	-20.28	19.39	Line	-	12.89	9.67	0.02	9.70			
QP	304.059k	38.16	60.13	-21.97	19.39	Line	-	18.77	9.67	0.02	9.70			
AV	304.059k	26.36	50.13	-23.77	19.39	Line	-	6.97	9.67	0.02	9.70			
QP	1.826M	30.24	56.00	-25.76	19.46	Line	-	10.78	9.68	0.08	9.70			
AV	1.826M	28.90	46.00	-17.10	19.46	Line	-	9.44	9.68	0.08	9.70			
QP	2.283M	28.55	56.00	-27.45	19.47	Line	-	9.08	9.68	0.09	9.70			
AV	2.283M	26.98	46.00	-19.02	19.47	Line	-	7.51	9.68	0.09	9.70			
QP	12.705M	30.12	60.00	-29.88	19.61	Line	-	10.51	9.70	0.21	9.70			
AV	12.705M	25.08	50.00	-24.92	19.61	Line	-	5.47	9.70	0.21	9.70			

Conducted Emissions at Powerline_Mode 3



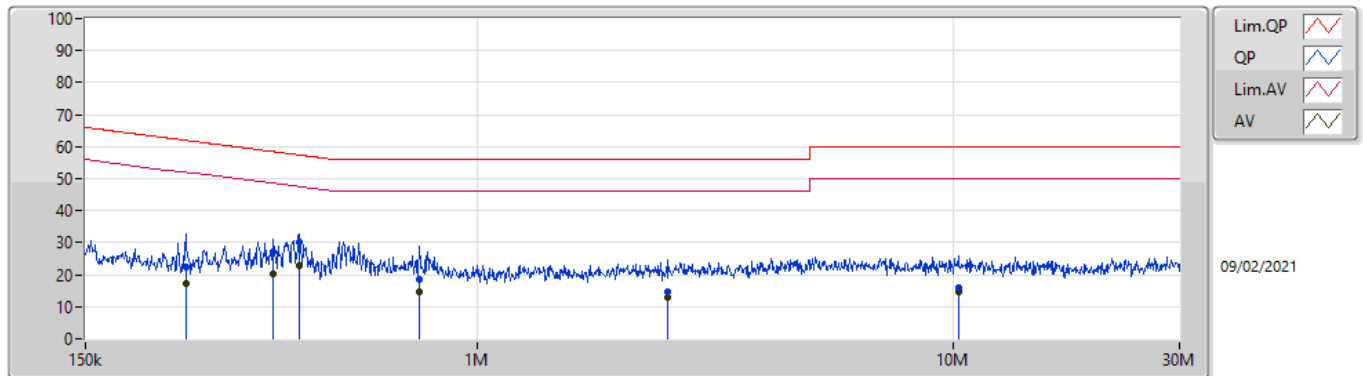
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	152.414k	56.59	65.87	-9.28	19.39	Neutral	-	37.20	9.67	0.02	9.70			
AV	152.414k	41.69	55.87	-14.18	19.39	Neutral	-	22.30	9.67	0.02	9.70			
QP	227.194k	46.44	62.56	-16.12	19.38	Neutral	-	27.06	9.66	0.02	9.70			
AV	227.194k	32.29	52.56	-20.27	19.38	Neutral	-	12.91	9.66	0.02	9.70			
QP	305.276k	37.63	60.09	-22.46	19.37	Neutral	-	18.26	9.65	0.02	9.70			
AV	305.276k	26.09	50.09	-24.00	19.37	Neutral	-	6.72	9.65	0.02	9.70			
QP	535.976k	28.39	56.00	-27.61	19.38	Neutral	-	9.01	9.65	0.03	9.70			
AV	535.976k	23.16	46.00	-22.84	19.38	Neutral	-	3.78	9.65	0.03	9.70			
QP	1.826M	30.53	56.00	-25.47	19.44	Neutral	-	11.09	9.66	0.08	9.70			
AV	1.826M	29.19	46.00	-16.81	19.44	Neutral	-	9.75	9.66	0.08	9.70			
QP	12.554M	30.06	60.00	-29.94	19.63	Neutral	-	10.43	9.72	0.21	9.70			
AV	12.554M	25.20	50.00	-24.80	19.63	Neutral	-	5.57	9.72	0.21	9.70			

Conducted Emissions at Powerline_Mode 4



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	163.117k	30.04	65.31	-35.27	19.40	Line	-	10.64	9.68	0.02	9.70			
AV	163.117k	17.86	55.31	-37.45	19.40	Line	-	-1.54	9.68	0.02	9.70			
QP	238.343k	24.65	62.16	-37.51	19.39	Line	-	5.26	9.67	0.02	9.70			
AV	238.343k	15.74	52.16	-36.42	19.39	Line	-	-3.65	9.67	0.02	9.70			
QP	248.05k	24.92	61.81	-36.89	19.39	Line	-	5.53	9.67	0.02	9.70			
AV	248.05k	16.42	51.81	-35.39	19.39	Line	-	-2.97	9.67	0.02	9.70			
QP	798.945k	32.39	56.00	-23.61	19.41	Line	-	12.98	9.67	0.04	9.70			
AV	798.945k	25.68	46.00	-20.32	19.41	Line	-	6.27	9.67	0.04	9.70			
QP	4.74M	21.80	56.00	-34.20	19.52	Line	-	2.28	9.70	0.12	9.70			
AV	4.74M	18.47	46.00	-27.53	19.52	Line	-	-1.05	9.70	0.12	9.70			
QP	11.637M	20.18	60.00	-39.82	19.61	Line	-	0.57	9.71	0.20	9.70			
AV	11.637M	17.32	50.00	-32.68	19.61	Line	-	-2.29	9.71	0.20	9.70			

Conducted Emissions at Powerline_Mode 4



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	244.12k	22.46	61.95	-39.49	19.38	Neutral	-	3.08	9.66	0.02	9.70			
AV	244.12k	17.15	51.95	-34.80	19.38	Neutral	-	-2.23	9.66	0.02	9.70			
QP	371.231k	26.95	58.47	-31.52	19.37	Neutral	-	7.58	9.65	0.02	9.70			
AV	371.231k	20.45	48.47	-28.02	19.37	Neutral	-	1.08	9.65	0.02	9.70			
QP	421.816k	30.27	57.41	-27.14	19.37	Neutral	-	10.90	9.65	0.02	9.70			
AV	421.816k	23.05	47.41	-24.36	19.37	Neutral	-	3.68	9.65	0.02	9.70			
QP	755.518k	18.39	56.00	-37.61	19.40	Neutral	-	-1.01	9.66	0.04	9.70			
AV	755.518k	14.65	46.00	-31.35	19.40	Neutral	-	-4.75	9.66	0.04	9.70			
QP	2.512M	14.73	56.00	-41.27	19.45	Neutral	-	-4.72	9.66	0.09	9.70			
AV	2.512M	13.03	46.00	-32.97	19.45	Neutral	-	-6.42	9.66	0.09	9.70			
QP	10.282M	15.99	60.00	-44.01	19.61	Neutral	-	-3.62	9.72	0.19	9.70			
AV	10.282M	14.51	50.00	-35.49	19.61	Neutral	-	-5.10	9.72	0.19	9.70			



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
BT-LE(1Mbps)	673.75k	1.049M	1M05F1D	666.25k	1.043M

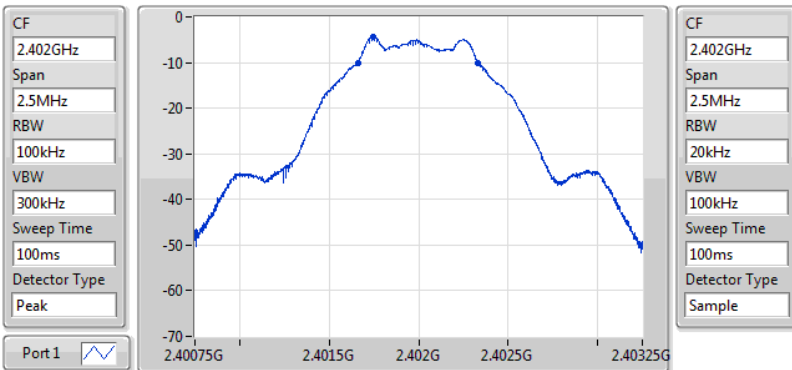
Max-N dB = Maximum 6dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth



Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	500k	673.75k	1.047M
2440MHz	Pass	500k	666.25k	1.049M
2480MHz	Pass	500k	668.75k	1.043M

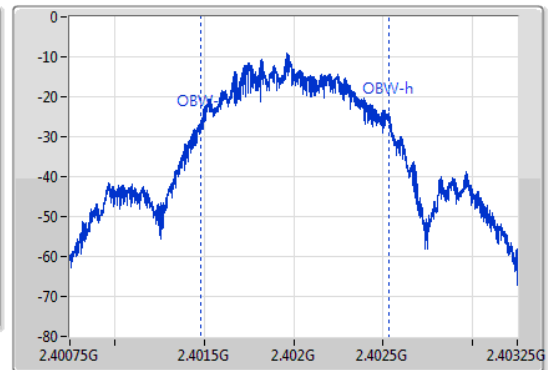
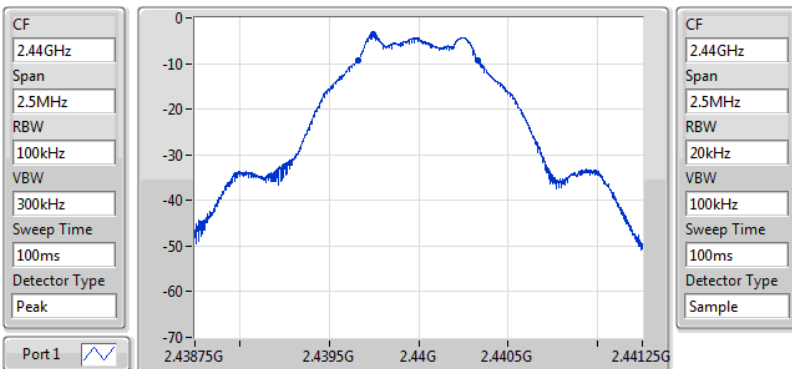
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

BT-LE(1Mbps)
2402MHz


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
673.75k	2.40166G	2.402334G	1.047M	2.401484G	2.402531G	500k	1

EBW-DTS

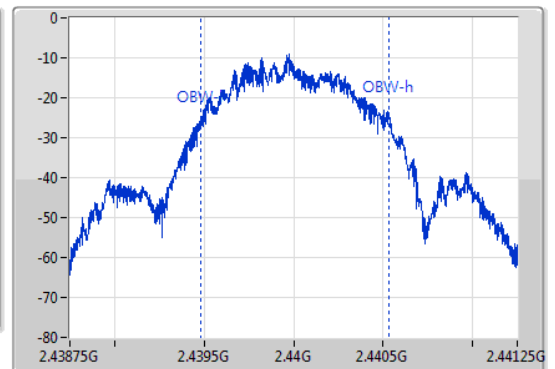
08/02/2021


BT-LE(1Mbps)
2440MHz


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
666.25k	2.439663G	2.440329G	1.049M	2.439483G	2.440532G	500k	1

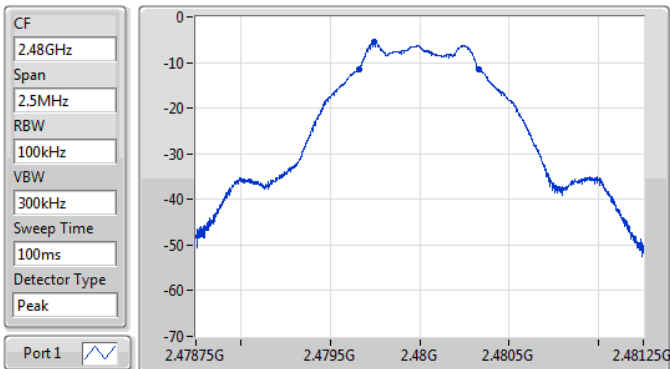
EBW-DTS

08/02/2021



BT-LE(1Mbps)

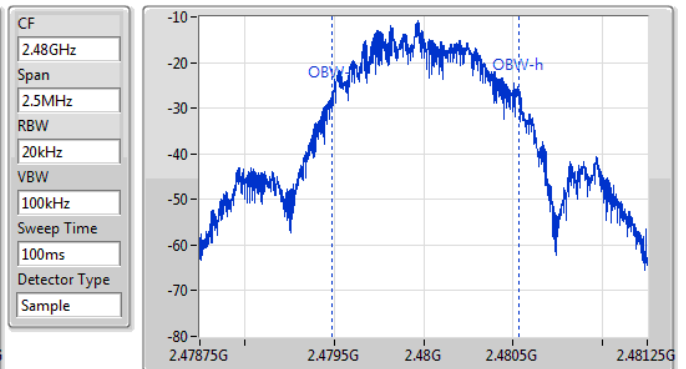
2480MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
668.75k	2.479663G	2.480331G	1.043M	2.479487G	2.48053G	500k	1

EBW-DTS

08/02/2021





Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	-3.49	0.00045



Average Power-DTS

Appendix C

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	2.20	-4.12	30.00
2440MHz	Pass	2.20	-3.49	30.00
2480MHz	Pass	2.20	-9.66	30.00

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



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
BT-LE(1Mbps)	-19.25

RBW = 3kHz;



Result

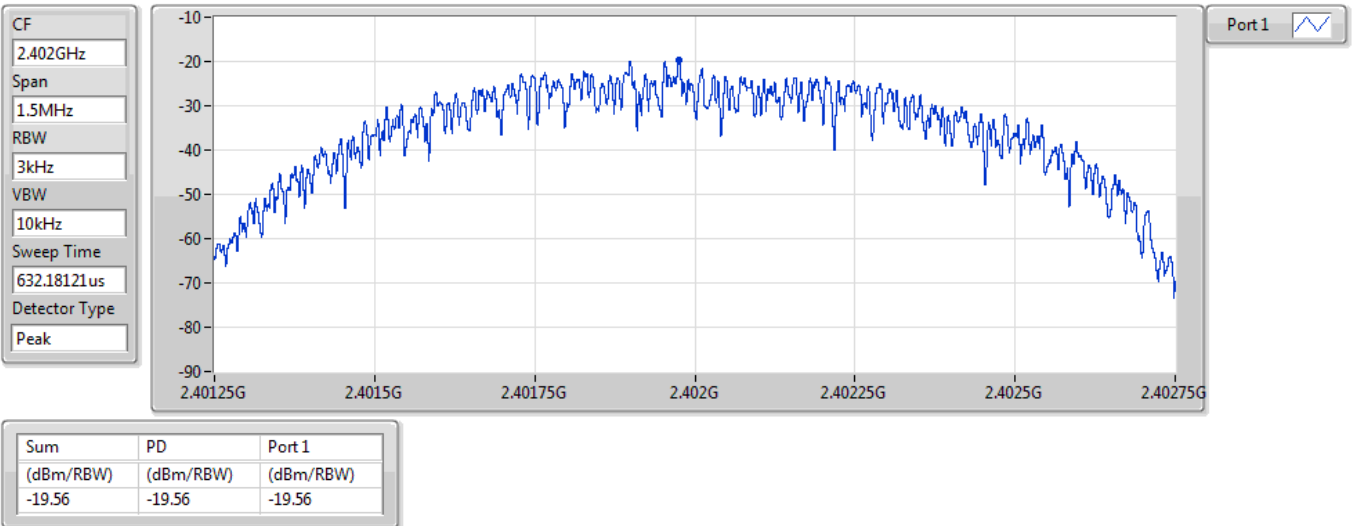
Mode	Result	Gain (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	2.20	-19.56	8.00
2440MHz	Pass	2.20	-19.25	8.00
2480MHz	Pass	2.20	-21.75	8.00

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;

BT-LE(1Mbps)

2402MHz

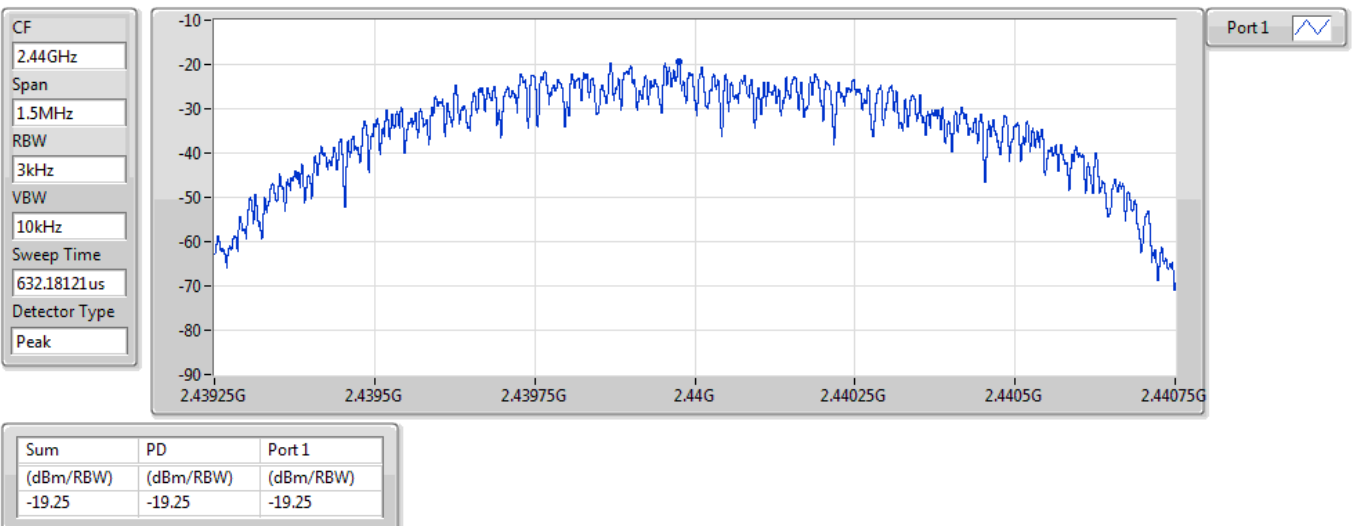
08/02/2021



BT-LE(1Mbps)

2440MHz

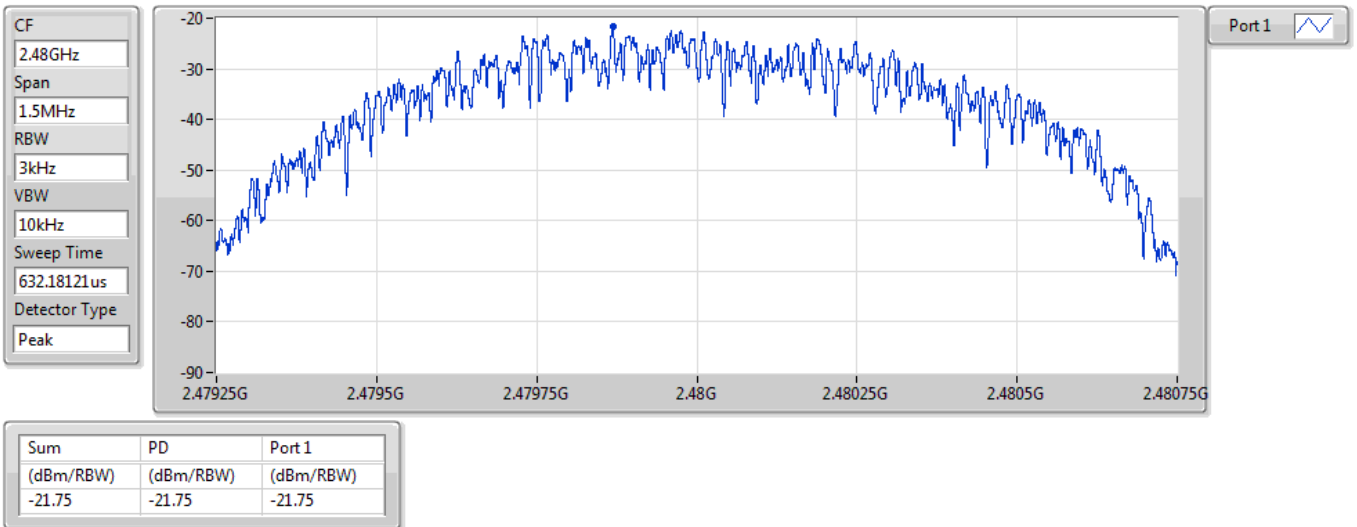
08/02/2021



BT-LE(1Mbps)

2480MHz

08/02/2021





Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	2.43975G	-3.70	-33.70	2.13501G	-46.24	2.39441G	-54.46	2.4G	-56.40	2.48746G	-52.58	24.56694G	-41.17	1



Result

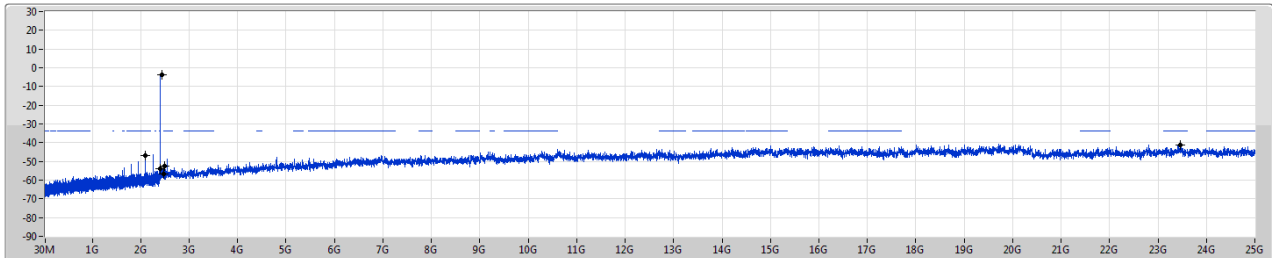
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.43975G	-3.70	-33.70	2.10182G	-47.00	2.39647G	-54.01	2.4835G	-56.57	2.48389G	-52.27	23.4618G	-41.23	1
2440MHz	Pass	2.43975G	-3.70	-33.70	2.13501G	-46.24	2.39441G	-54.46	2.4G	-56.40	2.48746G	-52.58	24.56694G	-41.17	1
2480MHz	Pass	2.43975G	-3.70	-33.70	2.16997G	-46.84	2.39956G	-54.35	2.4G	-56.05	2.48969G	-53.43	16.26011G	-41.01	1

BT-LE(1Mbps)

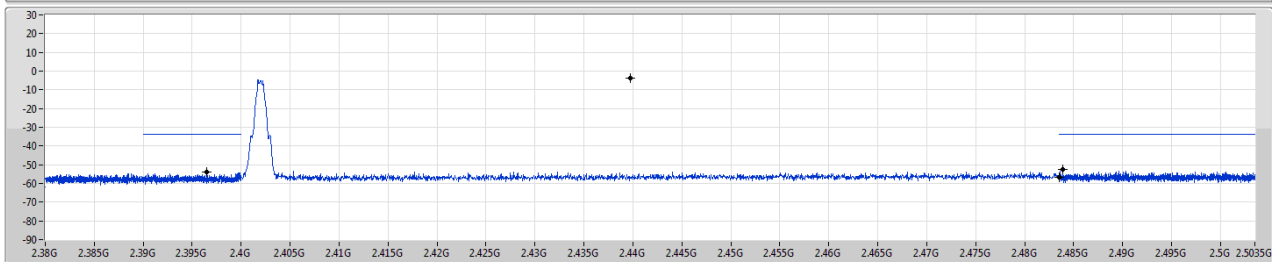
CSEndB-DTS

2402MHz

08/02/2021



Port1



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

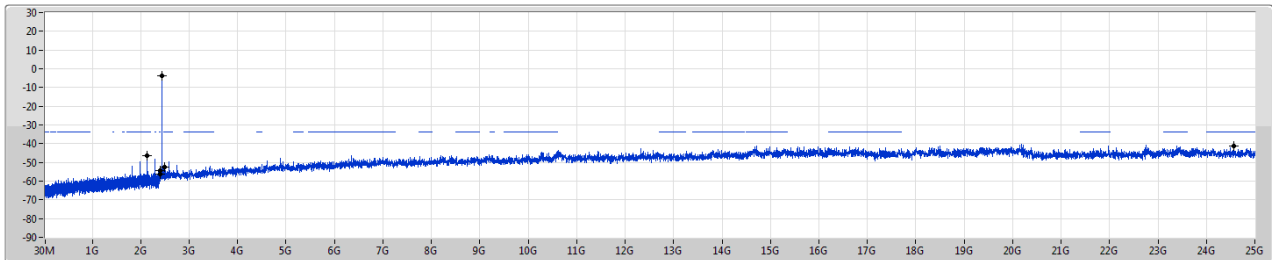
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43975G	-3.70	-33.70	2.10182G	-47.00	2.39647G	-54.01	2.4835G	-56.57	2.48389G	-52.27	2.4618G	-41.23	1

BT-LE(1Mbps)

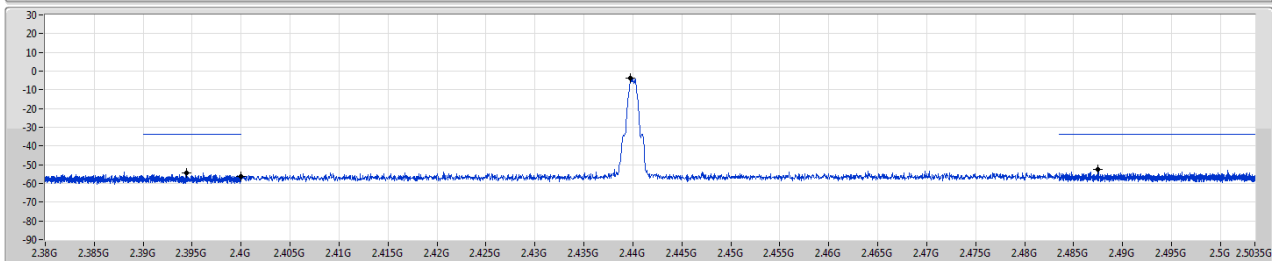
CSEndB-DTS

2440MHz

08/02/2021



Port1



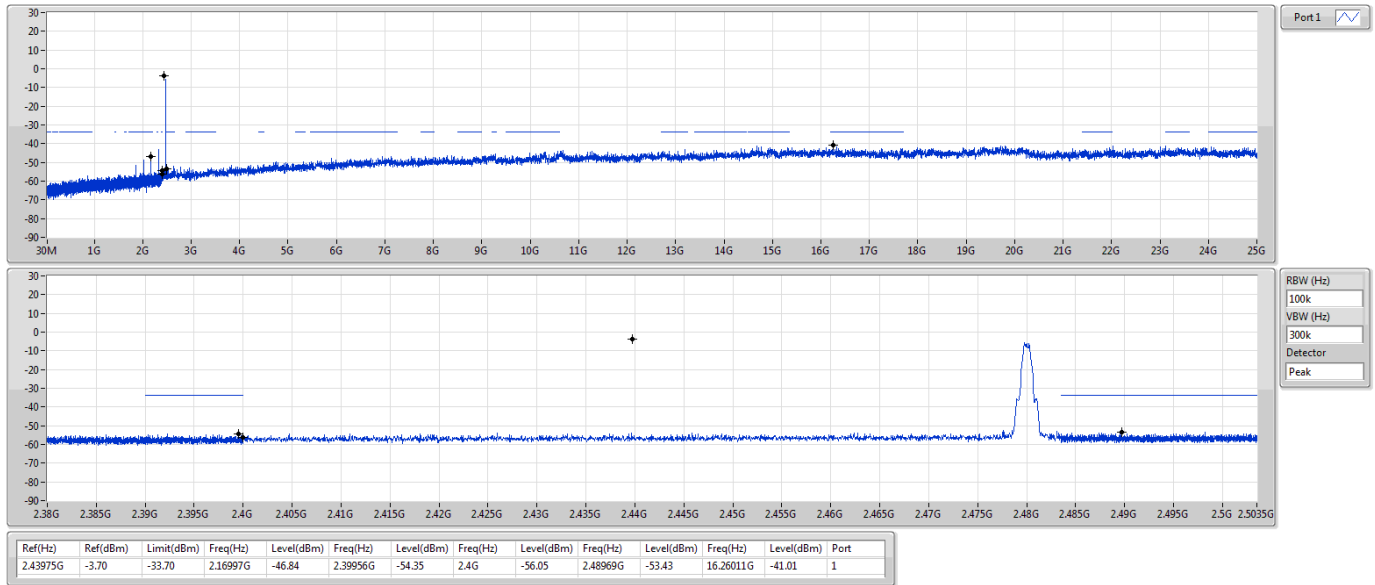
RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43975G	-3.70	-33.70	2.13501G	-46.24	2.39441G	-54.46	2.4G	-56.40	2.48746G	-52.58	2.45694G	-41.17	1

BT-LE(1Mbps)

CSEndB-DTS

2480MHz





Summary

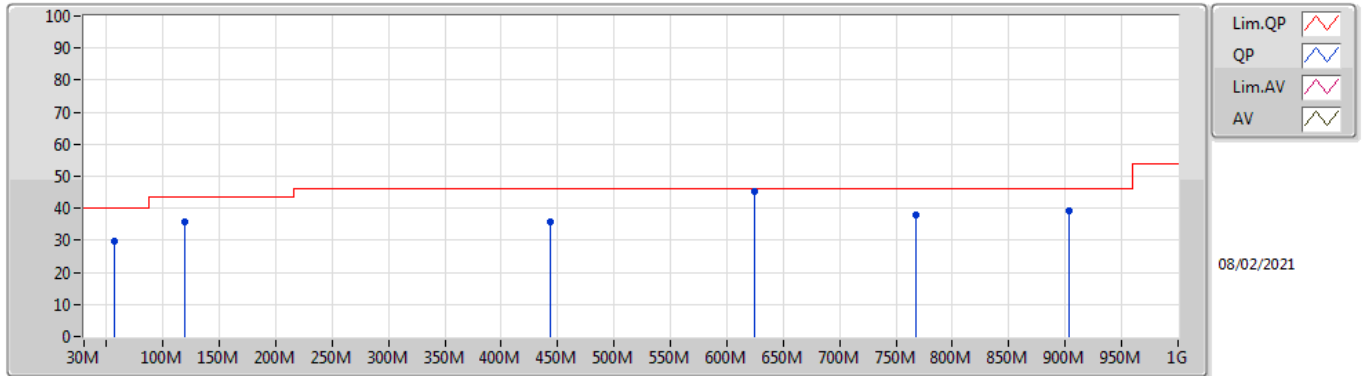
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	QP	624.04M	45.16	46.00	-0.84	3	Vertical	198	1.00	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	PK	57.16M	29.63	40.00	-10.37	3	Vertical	360	1.00	-
2440MHz	Pass	PK	119.24M	35.58	43.50	-7.92	3	Vertical	360	1.00	-
2440MHz	Pass	PK	443.22M	35.94	46.00	-10.06	3	Vertical	360	1.00	-
2440MHz	Pass	PK	767.2M	38.02	46.00	-7.98	3	Vertical	360	1.00	-
2440MHz	Pass	PK	903M	39.03	46.00	-6.97	3	Vertical	360	1.00	-
2440MHz	Pass	QP	624.04M	45.16	46.00	-0.84	3	Vertical	198	1.00	-
2440MHz	Pass	PK	30M	20.91	40.00	-19.09	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	167.74M	37.39	43.50	-6.11	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	336.52M	38.90	46.00	-7.10	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	827.34M	38.57	46.00	-7.43	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	953.44M	34.38	46.00	-11.62	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	696.03M	43.88	46.00	-2.12	3	Horizontal	228	1.00	-

BT-LE(1Mbps)

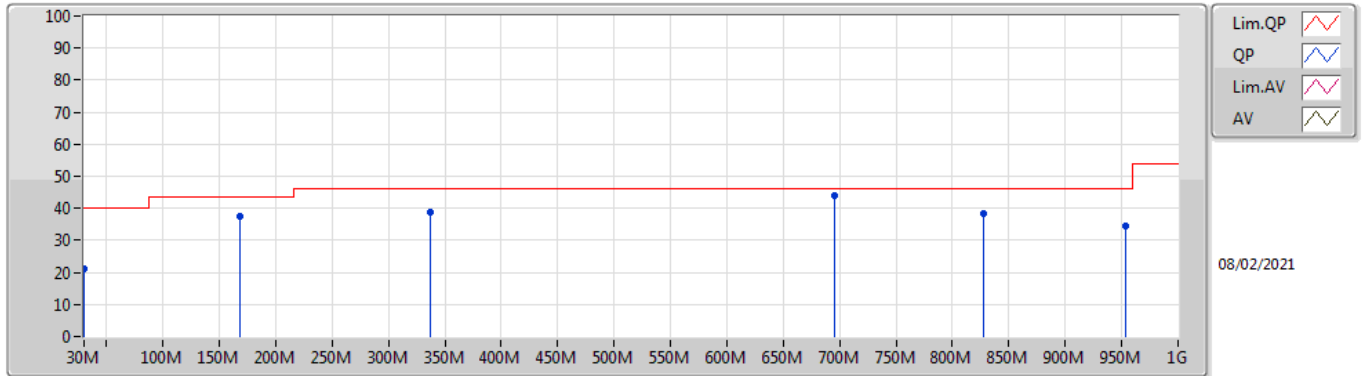
2440MHz_USB



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	57.16M	29.63	40.00	-10.37	-25.25	3	Vertical	360	1.00	-	54.88	11.14	0.60	36.99
PK	119.24M	35.58	43.50	-7.92	-19.00	3	Vertical	360	1.00	-	54.58	16.69	0.80	36.49
PK	443.22M	35.94	46.00	-10.06	-12.48	3	Vertical	360	1.00	-	48.42	22.31	1.79	36.58
PK	767.2M	38.02	46.00	-7.98	-7.46	3	Vertical	360	1.00	-	45.48	27.32	2.53	37.31
PK	903M	39.03	46.00	-6.97	-6.44	3	Vertical	360	1.00	-	45.47	28.27	2.81	37.52
QP	624.04M	45.16	46.00	-0.84	-9.52	3	Vertical	198	1.00	-	54.68	25.36	2.20	37.08

BT-LE(1Mbps)

2440MHz_USB



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	30M	20.91	40.00	-19.09	-13.20	3	Horizontal	0	1.00	-	34.11	23.51	0.40	37.11
PK	167.74M	37.39	43.50	-6.11	-20.25	3	Horizontal	0	1.00	-	57.64	15.05	1.04	36.34
PK	336.52M	38.90	46.00	-7.10	-15.77	3	Horizontal	0	1.00	-	54.67	19.22	1.47	36.46
PK	827.34M	38.57	46.00	-7.43	-7.33	3	Horizontal	0	1.00	-	45.90	27.64	2.65	37.62
PK	953.44M	34.38	46.00	-11.62	-4.31	3	Horizontal	0	1.00	-	38.69	30.12	2.91	37.34
PK	696.03M	43.88	46.00	-2.12	-9.17	3	Horizontal	228	1.00	-	53.05	25.70	2.38	37.25



Summary

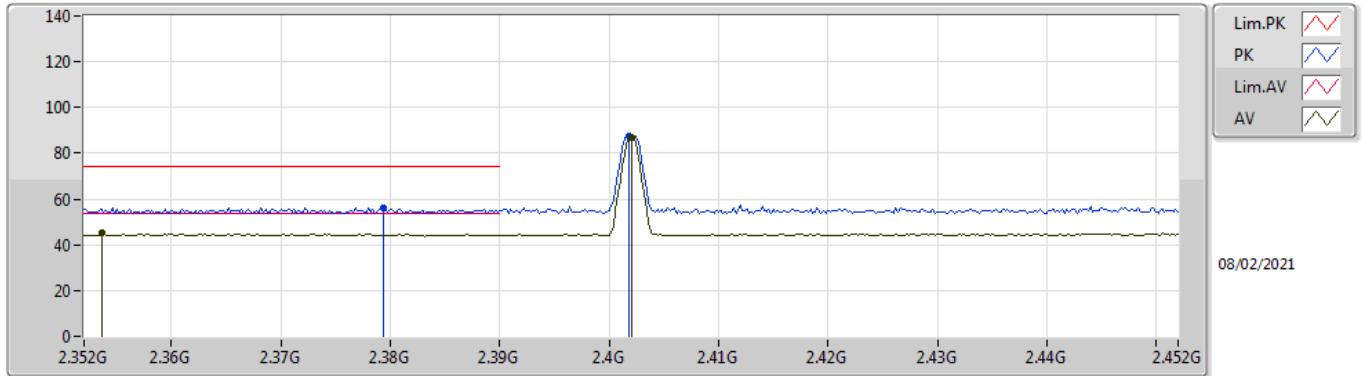
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
BT-LB(1Mbps)	Pass	AV	4.88006G	53.93	54.00	-0.07	3	Vertical	247	1.81	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3536G	45.00	54.00	-9.00	3	Vertical	157	2.15	-
2402MHz	Pass	AV	2.402G	86.73	Inf	-Inf	3	Vertical	157	2.15	-
2402MHz	Pass	PK	2.3794G	56.30	74.00	-17.70	3	Vertical	157	2.15	-
2402MHz	Pass	PK	2.4018G	87.76	Inf	-Inf	3	Vertical	157	2.15	-
2402MHz	Pass	AV	2.3526G	44.69	54.00	-9.31	3	Horizontal	145	1.73	-
2402MHz	Pass	AV	2.402G	83.49	Inf	-Inf	3	Horizontal	145	1.73	-
2402MHz	Pass	PK	2.38G	56.84	74.00	-17.16	3	Horizontal	145	1.73	-
2402MHz	Pass	PK	2.4018G	84.58	Inf	-Inf	3	Horizontal	145	1.73	-
2402MHz	Pass	AV	4.80406G	52.88	54.00	-1.12	3	Vertical	248	1.81	-
2402MHz	Pass	PK	4.80352G	57.75	74.00	-16.25	3	Vertical	248	1.81	-
2402MHz	Pass	AV	4.80404G	53.62	54.00	-0.38	3	Horizontal	195	1.84	-
2402MHz	Pass	PK	4.80351G	58.38	74.00	-15.62	3	Horizontal	195	1.84	-
2440MHz	Pass	AV	2.3624G	44.89	54.00	-9.11	3	Vertical	173	1.57	-
2440MHz	Pass	AV	2.44G	84.20	Inf	-Inf	3	Vertical	173	1.57	-
2440MHz	Pass	AV	2.4964G	45.10	54.00	-8.90	3	Vertical	173	1.57	-
2440MHz	Pass	PK	2.364G	56.51	74.00	-17.49	3	Vertical	173	1.57	-
2440MHz	Pass	PK	2.4396G	85.34	Inf	-Inf	3	Vertical	173	1.57	-
2440MHz	Pass	PK	2.4876G	56.38	74.00	-17.62	3	Vertical	173	1.57	-
2440MHz	Pass	AV	2.3632G	44.73	54.00	-9.27	3	Horizontal	149	1.70	-
2440MHz	Pass	AV	2.44G	83.88	Inf	-Inf	3	Horizontal	149	1.70	-
2440MHz	Pass	AV	2.4916G	45.18	54.00	-8.82	3	Horizontal	149	1.70	-
2440MHz	Pass	PK	2.3616G	56.50	74.00	-17.50	3	Horizontal	149	1.70	-
2440MHz	Pass	PK	2.4396G	84.96	Inf	-Inf	3	Horizontal	149	1.70	-
2440MHz	Pass	PK	2.4972G	57.00	74.00	-17.00	3	Horizontal	149	1.70	-
2440MHz	Pass	AV	4.88006G	53.93	54.00	-0.07	3	Vertical	247	1.81	-
2440MHz	Pass	PK	4.87948G	58.70	74.00	-15.30	3	Vertical	247	1.81	-
2440MHz	Pass	AV	4.88006G	53.20	54.00	-0.80	3	Horizontal	196	2.89	-
2440MHz	Pass	PK	4.87949G	58.04	74.00	-15.96	3	Horizontal	196	2.89	-
2480MHz	Pass	AV	2.48G	83.72	Inf	-Inf	3	Vertical	159	1.34	-
2480MHz	Pass	AV	2.4904G	45.19	54.00	-8.81	3	Vertical	159	1.34	-
2480MHz	Pass	PK	2.4798G	84.83	Inf	-Inf	3	Vertical	159	1.34	-
2480MHz	Pass	PK	2.4924G	56.78	74.00	-17.22	3	Vertical	159	1.34	-
2480MHz	Pass	AV	2.48G	83.00	Inf	-Inf	3	Horizontal	158	1.36	-
2480MHz	Pass	AV	2.4874G	45.41	54.00	-8.59	3	Horizontal	158	1.36	-
2480MHz	Pass	PK	2.4798G	84.13	Inf	-Inf	3	Horizontal	158	1.36	-
2480MHz	Pass	PK	2.4918G	56.87	74.00	-17.13	3	Horizontal	158	1.36	-
2480MHz	Pass	AV	4.96002G	51.27	54.00	-2.73	3	Vertical	305	1.65	-
2480MHz	Pass	PK	4.95949G	56.75	74.00	-17.25	3	Vertical	305	1.65	-
2480MHz	Pass	AV	4.96006G	53.16	54.00	-0.84	3	Horizontal	194	2.96	-
2480MHz	Pass	PK	4.96055G	58.24	74.00	-15.76	3	Horizontal	194	2.96	-

BT-LE(1Mbps)

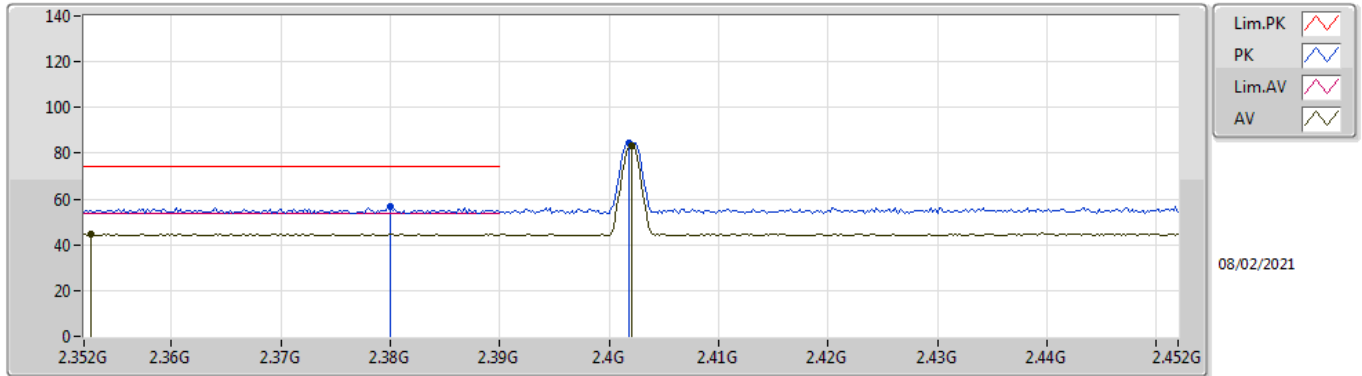
2402MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3536G	45.00	54.00	-9.00	31.62	3	Vertical	157	2.15	-	13.38	27.79	3.83	-
AV	2.402G	86.73	Inf	-Inf	31.50	3	Vertical	157	2.15	-	55.23	27.60	3.90	-
PK	2.3794G	56.30	74.00	-17.70	31.55	3	Vertical	157	2.15	-	24.75	27.68	3.87	-
PK	2.4018G	87.76	Inf	-Inf	31.50	3	Vertical	157	2.15	-	56.26	27.60	3.90	-

BT-LE(1Mbps)

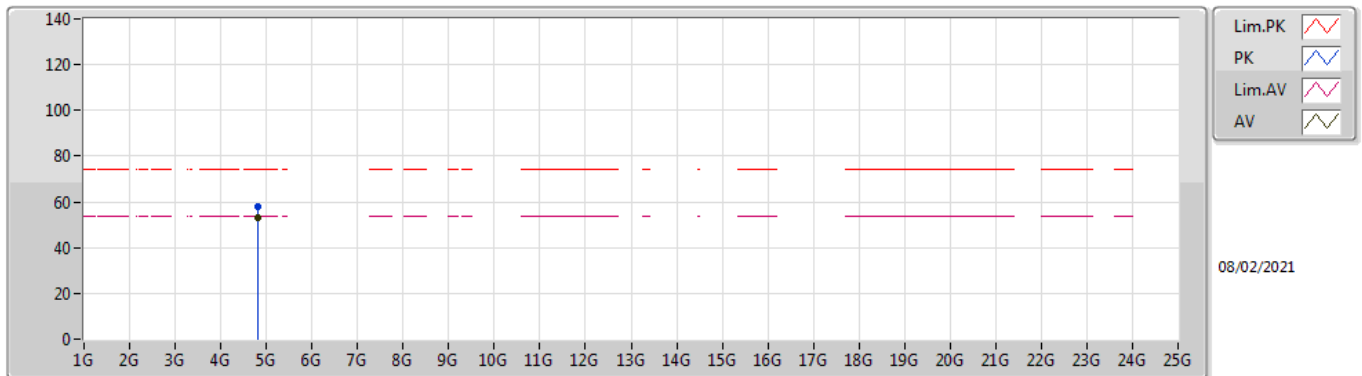
2402MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3526G	44.69	54.00	-9.31	31.62	3	Horizontal	145	1.73	-	13.07	27.79	3.83	-
AV	2.402G	83.49	Inf	-Inf	31.50	3	Horizontal	145	1.73	-	51.99	27.60	3.90	-
PK	2.38G	56.84	74.00	-17.16	31.55	3	Horizontal	145	1.73	-	25.29	27.68	3.87	-
PK	2.4018G	84.58	Inf	-Inf	31.50	3	Horizontal	145	1.73	-	53.08	27.60	3.90	-

BT-LE(1Mbps)

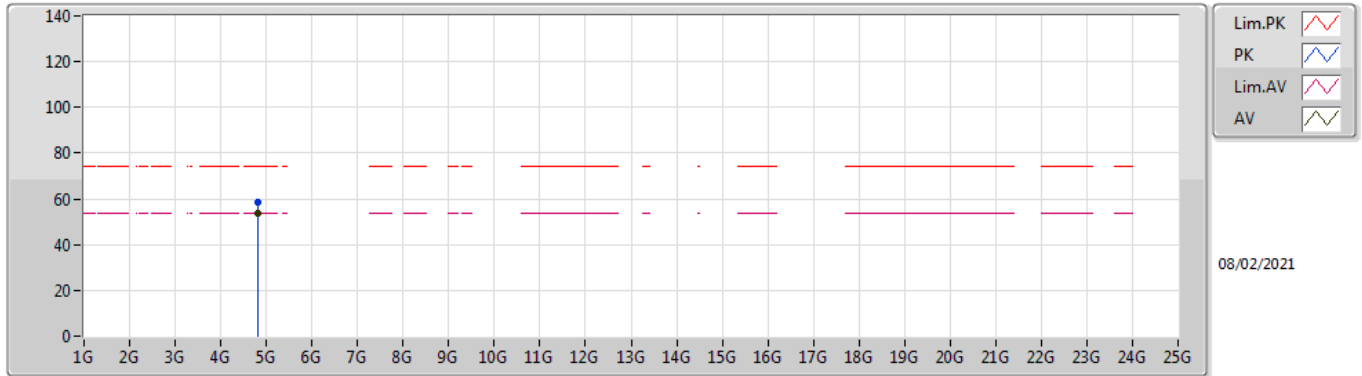
2402MHz_TX



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)
AV	4.80406G	52.88	54.00	-1.12	1.49	3	Vertical	248	1.81	-	51.39	31.12	5.30	34.93
PK	4.80352G	57.75	74.00	-16.25	1.48	3	Vertical	248	1.81	-	56.27	31.11	5.30	34.93

BT-LE(1Mbps)

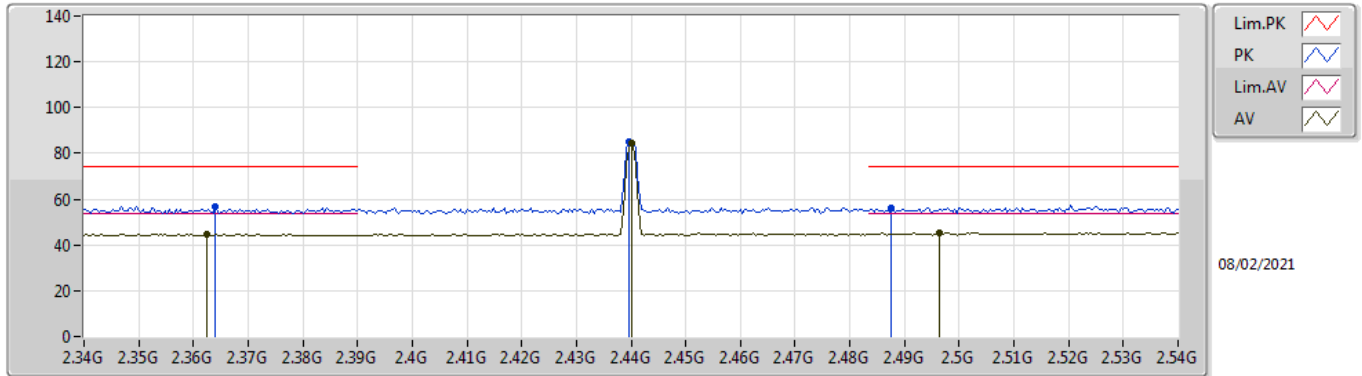
2402MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.80404G	53.62	54.00	-0.38	1.49	3	Horizontal	195	1.84	-	52.13	31.12	5.30	34.93
PK	4.80351G	58.38	74.00	-15.62	1.48	3	Horizontal	195	1.84	-	56.90	31.11	5.30	34.93

BT-LE(1Mbps)

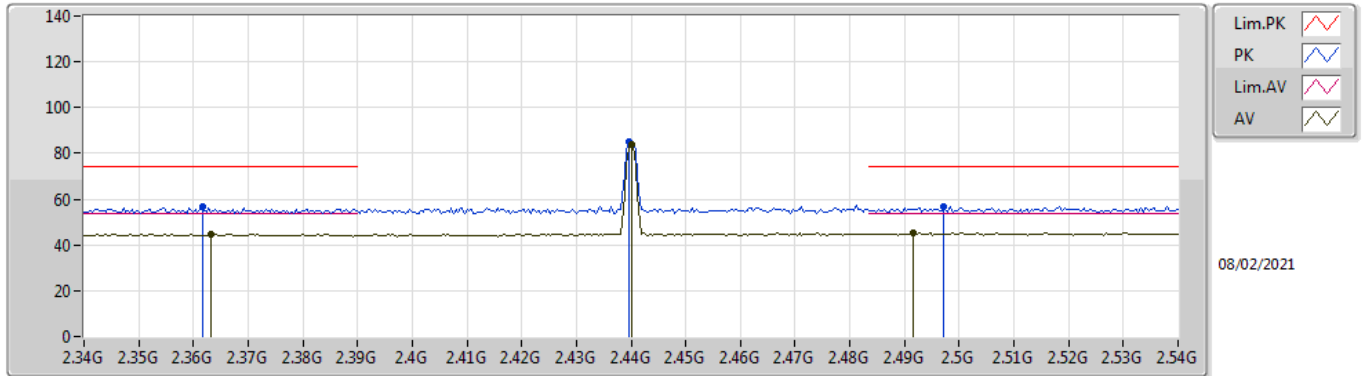
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3624G	44.89	54.00	-9.11	31.59	3	Vertical	173	1.57	-	13.30	27.75	3.84	-
AV	2.44G	84.20	Inf	-Inf	31.56	3	Vertical	173	1.57	-	52.64	27.60	3.96	-
AV	2.4964G	45.10	54.00	-8.90	31.64	3	Vertical	173	1.57	-	13.46	27.60	4.04	-
PK	2.364G	56.51	74.00	-17.49	31.59	3	Vertical	173	1.57	-	24.92	27.74	3.85	-
PK	2.4396G	85.34	Inf	-Inf	31.56	3	Vertical	173	1.57	-	53.78	27.60	3.96	-
PK	2.4876G	56.38	74.00	-17.62	31.63	3	Vertical	173	1.57	-	24.75	27.60	4.03	-

BT-LE(1Mbps)

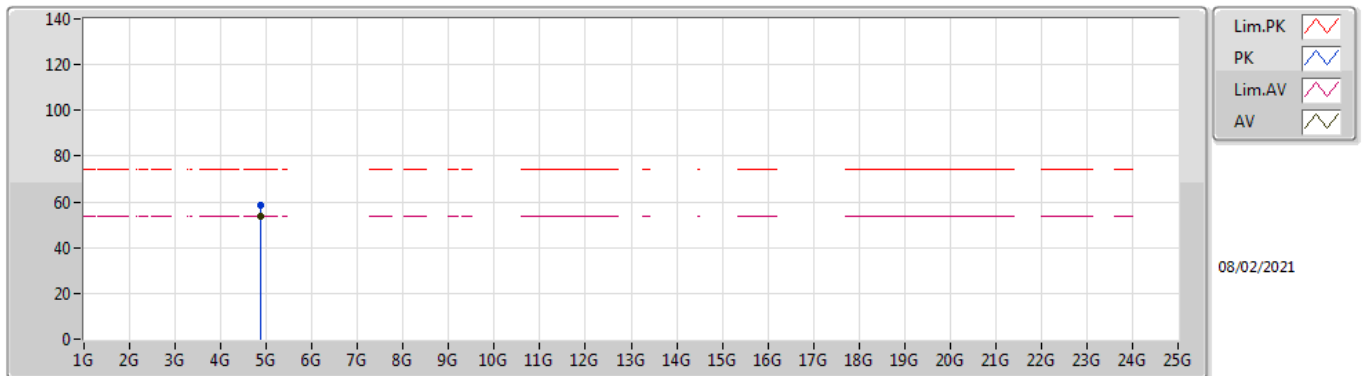
2440MHz_TX



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)
AV	2.3632G	44.73	54.00	-9.27	31.59	3	Horizontal	149	1.70	-	13.14	27.75	3.84	-
AV	2.44G	83.88	Inf	-Inf	31.56	3	Horizontal	149	1.70	-	52.32	27.60	3.96	-
AV	2.4916G	45.18	54.00	-8.82	31.64	3	Horizontal	149	1.70	-	13.54	27.60	4.04	-
PK	2.3616G	56.50	74.00	-17.50	31.59	3	Horizontal	149	1.70	-	24.91	27.75	3.84	-
PK	2.4396G	84.96	Inf	-Inf	31.56	3	Horizontal	149	1.70	-	53.40	27.60	3.96	-
PK	2.4972G	57.00	74.00	-17.00	31.65	3	Horizontal	149	1.70	-	25.35	27.60	4.05	-

BT-LE(1Mbps)

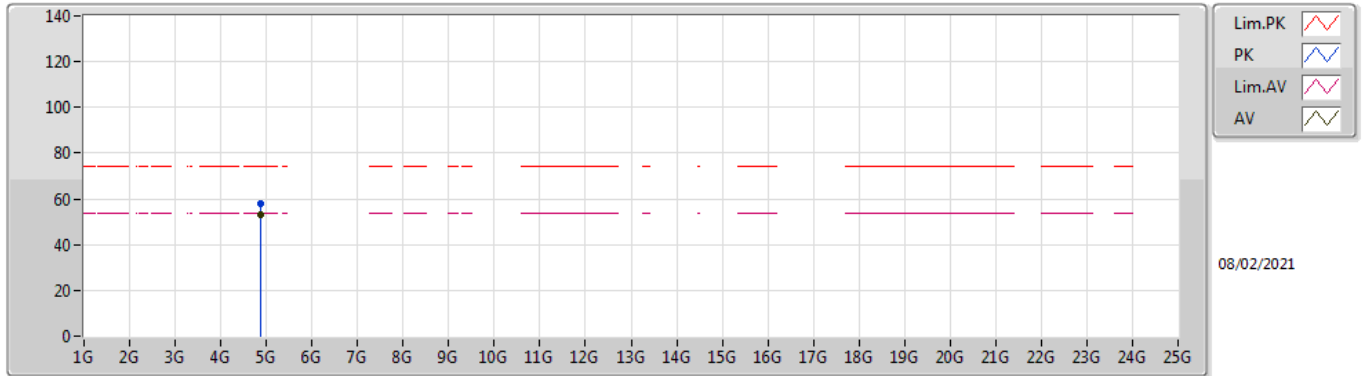
2440MHz_TX



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)
AV	4.88006G	53.93	54.00	-0.07	1.65	3	Vertical	247	1.81	-	52.28	31.24	5.34	34.93
PK	4.87948G	58.70	74.00	-15.30	1.65	3	Vertical	247	1.81	-	57.05	31.24	5.34	34.93

BT-LE(1Mbps)

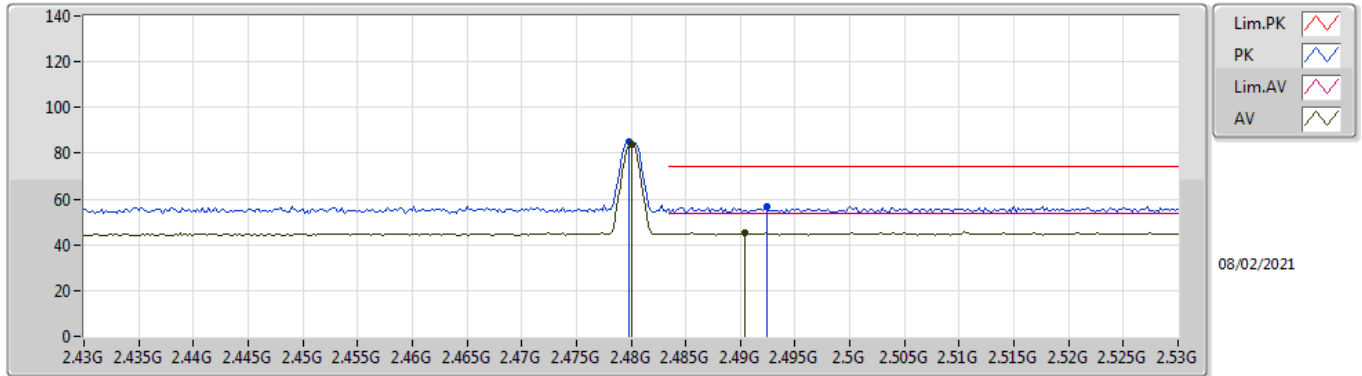
2440MHz_TX



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)
AV	4.88006G	53.20	54.00	-0.80	1.65	3	Horizontal	196	2.89	-	51.55	31.24	5.34	34.93
PK	4.87949G	58.04	74.00	-15.96	1.65	3	Horizontal	196	2.89	-	56.39	31.24	5.34	34.93

BT-LE(1Mbps)

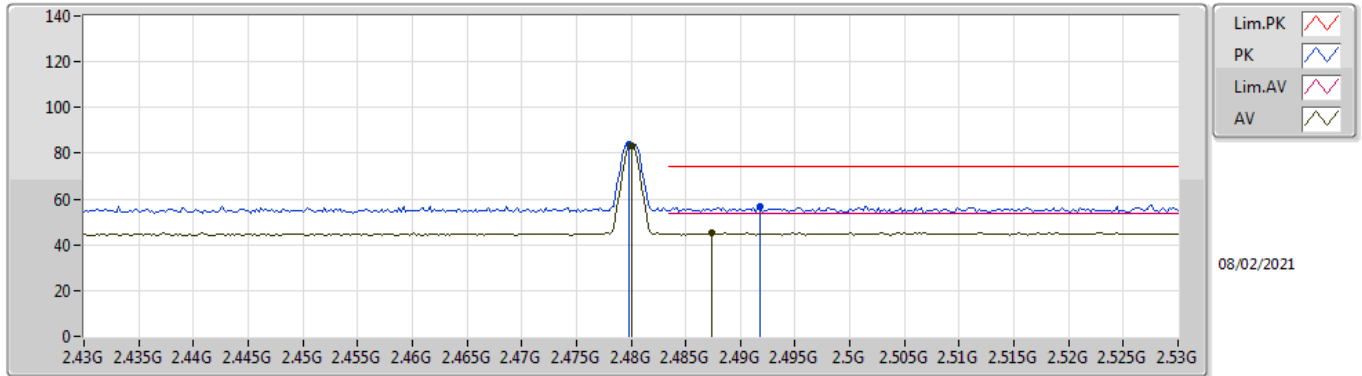
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.48G	83.72	Inf	-Inf	31.62	3	Vertical	159	1.34	-	52.10	27.60	4.02	-
AV	2.4904G	45.19	54.00	-8.81	31.64	3	Vertical	159	1.34	-	13.55	27.60	4.04	-
PK	2.4798G	84.83	Inf	-Inf	31.62	3	Vertical	159	1.34	-	53.21	27.60	4.02	-
PK	2.4924G	56.78	74.00	-17.22	31.64	3	Vertical	159	1.34	-	25.14	27.60	4.04	-

BT-LE(1Mbps)

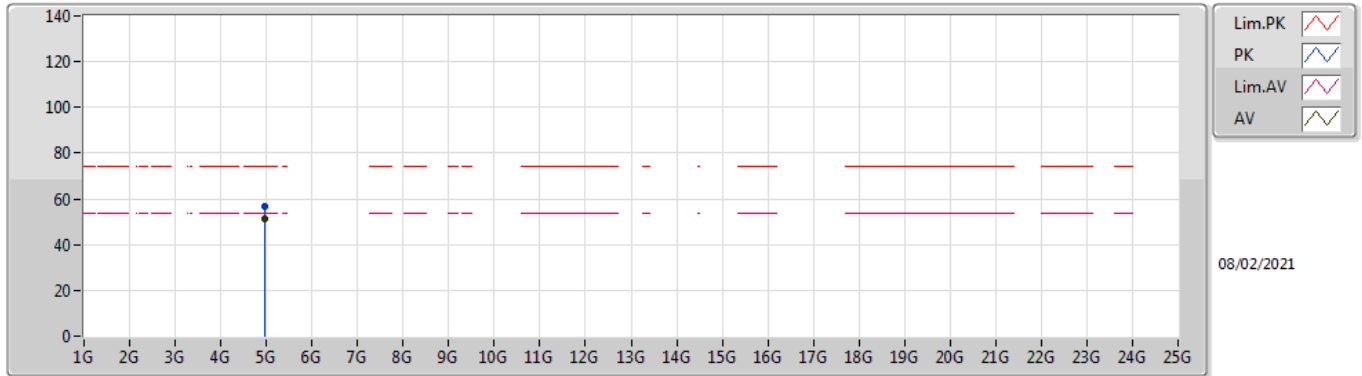
2480MHz_TX



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)
AV	2.48G	83.00	Inf	-Inf	31.62	3	Horizontal	158	1.36	-	51.38	27.60	4.02	-
AV	2.4874G	45.41	54.00	-8.59	31.63	3	Horizontal	158	1.36	-	13.78	27.60	4.03	-
PK	2.4798G	84.13	Inf	-Inf	31.62	3	Horizontal	158	1.36	-	52.51	27.60	4.02	-
PK	2.4918G	56.87	74.00	-17.13	31.64	3	Horizontal	158	1.36	-	25.23	27.60	4.04	-

BT-LE(1Mbps)

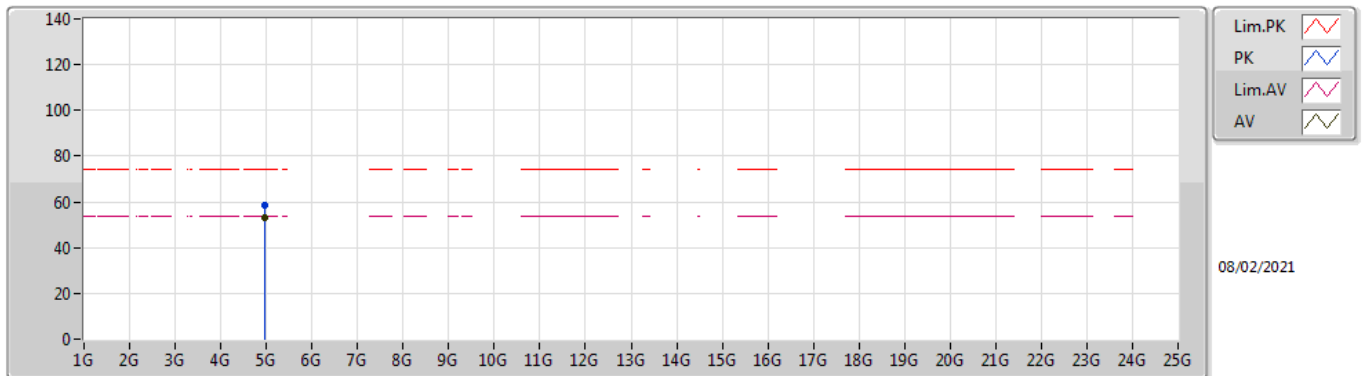
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.96002G	51.27	54.00	-2.73	1.86	3	Vertical	305	1.65	-	49.41	31.42	5.38	34.94
PK	4.95949G	56.75	74.00	-17.25	1.86	3	Vertical	305	1.65	-	54.89	31.42	5.38	34.94

BT-LE(1Mbps)

2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.96006G	53.16	54.00	-0.84	1.86	3	Horizontal	194	2.96	-	51.30	31.42	5.38	34.94
PK	4.96055G	58.24	74.00	-15.76	1.86	3	Horizontal	194	2.96	-	56.38	31.42	5.38	34.94



Summary

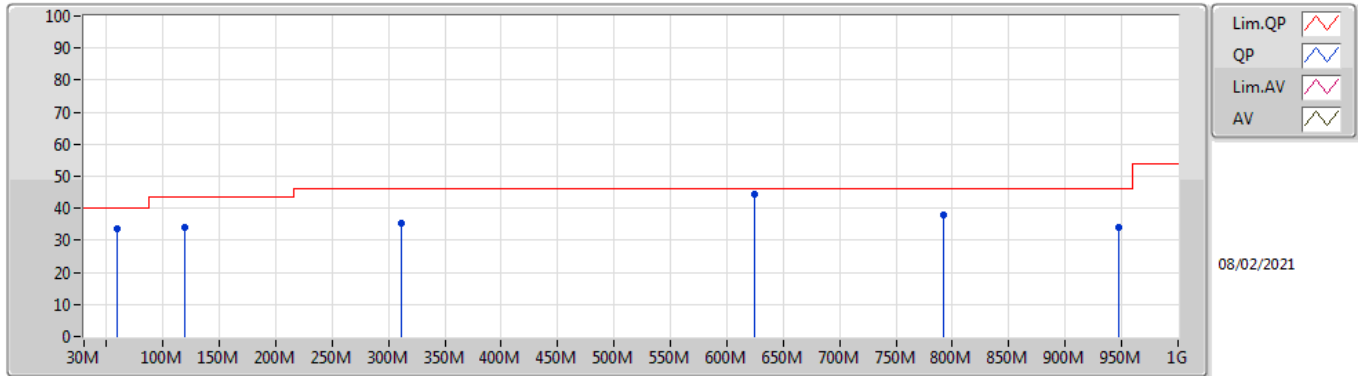
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	QP	624.06M	44.48	46.00	-1.52	3	Vertical	141	1.00	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	PK	59.1M	33.76	40.00	-6.24	3	Vertical	0	1.00	-
2440MHz	Pass	PK	119.24M	34.21	43.50	-9.29	3	Vertical	0	1.00	-
2440MHz	Pass	PK	311.3M	35.17	46.00	-10.83	3	Vertical	0	1.00	-
2440MHz	Pass	PK	792.42M	37.76	46.00	-8.24	3	Vertical	0	1.00	-
2440MHz	Pass	PK	947.62M	34.15	46.00	-11.85	3	Vertical	0	1.00	-
2440MHz	Pass	QP	624.06M	44.48	46.00	-1.52	3	Vertical	141	1.00	-
2440MHz	Pass	PK	59.1M	26.72	40.00	-13.28	3	Horizontal	0	2.00	-
2440MHz	Pass	PK	167.74M	31.83	43.50	-11.67	3	Horizontal	0	2.00	-
2440MHz	Pass	PK	311.3M	38.49	46.00	-7.51	3	Horizontal	0	2.00	-
2440MHz	Pass	QP	623.34M	41.59	46.00	-4.41	3	Horizontal	37	1.00	-
2440MHz	Pass	QP	672.14M	43.10	46.00	-2.90	3	Horizontal	109	1.13	-
2440MHz	Pass	QP	840.74M	42.25	46.00	-3.75	3	Horizontal	277	1.02	-

BT-LE(1Mbps)RX

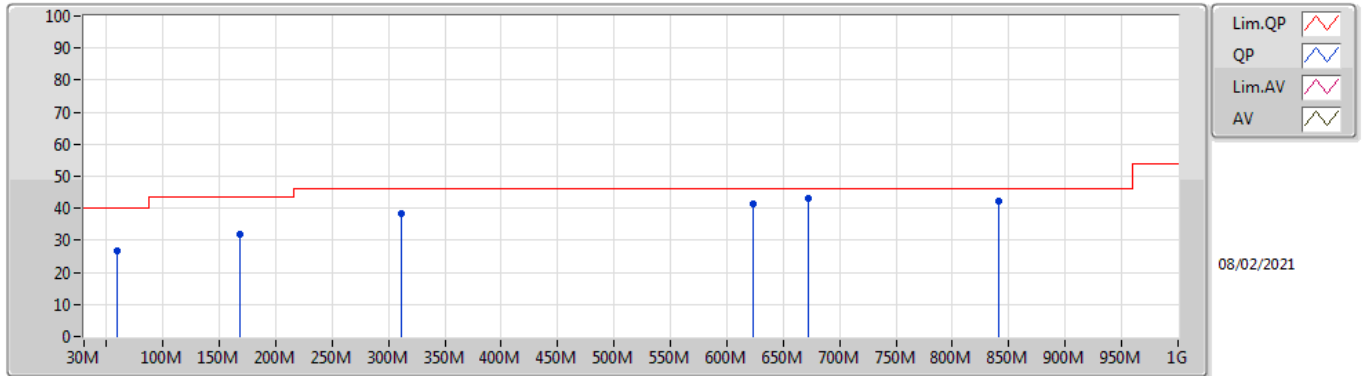
2440MHz_USB



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	59.1M	33.76	40.00	-6.24	-25.54	3	Vertical	0	1.00	-	59.30	10.85	0.60	36.99
PK	119.24M	34.21	43.50	-9.29	-19.00	3	Vertical	0	1.00	-	53.21	16.69	0.80	36.49
PK	311.3M	35.17	46.00	-10.83	-16.48	3	Vertical	0	1.00	-	51.65	18.48	1.42	36.38
PK	792.42M	37.76	46.00	-8.24	-7.56	3	Vertical	0	1.00	-	45.32	27.32	2.58	37.46
PK	947.62M	34.15	46.00	-11.85	-4.51	3	Vertical	0	1.00	-	38.66	29.96	2.90	37.37
QP	624.06M	44.48	46.00	-1.52	-9.52	3	Vertical	141	1.00	-	54.00	25.36	2.20	37.08

BT-LE(1Mbps)RX

2440MHz_USB



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	59.1M	26.72	40.00	-13.28	-25.54	3	Horizontal	0	2.00	-	52.26	10.85	0.60	36.99
PK	167.74M	31.83	43.50	-11.67	-20.25	3	Horizontal	0	2.00	-	52.08	15.05	1.04	36.34
PK	311.3M	38.49	46.00	-7.51	-16.48	3	Horizontal	0	2.00	-	54.97	18.48	1.42	36.38
QP	623.34M	41.59	46.00	-4.41	-9.54	3	Horizontal	37	1.00	-	51.13	25.34	2.20	37.08
QP	672.14M	43.10	46.00	-2.90	-9.22	3	Horizontal	109	1.13	-	52.32	25.60	2.29	37.11
QP	840.74M	42.25	46.00	-3.75	-6.80	3	Horizontal	277	1.02	-	49.05	28.19	2.68	37.67

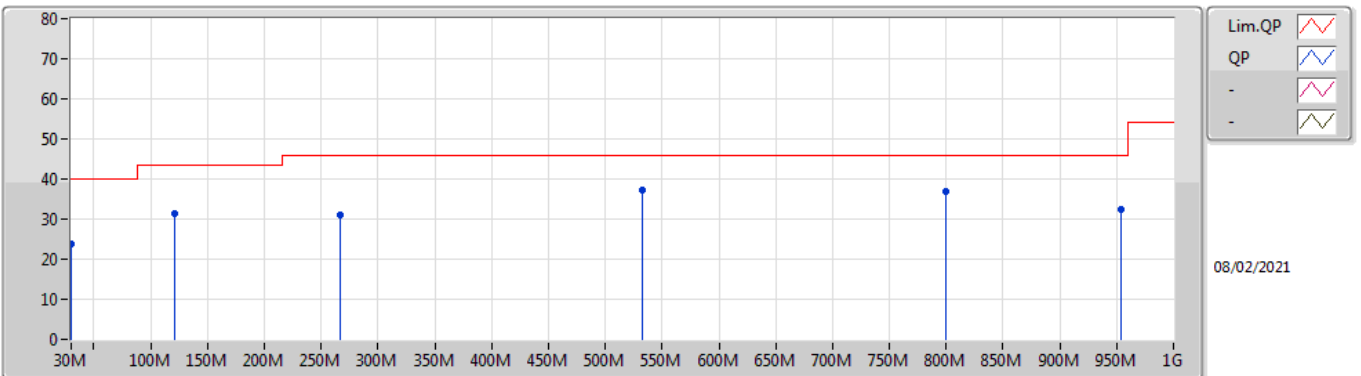
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 2	Pass	PK	534.4M	39.33	46.00	-6.67	Horizontal
Mode 3	Pass	PK	774.96M	39.53	46.00	-6.47	Horizontal

Mode Configure

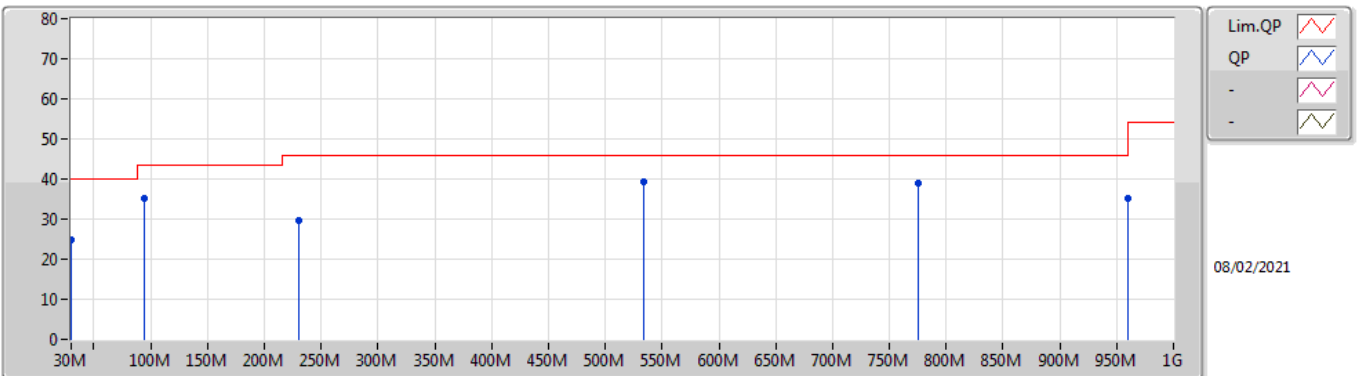
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Condition	Comments	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
Mode 2	Pass	PK	30M	23.93	40.00	-16.07	-13.20	Vertical	-	37.13	23.51	0.40	37.11
Mode 2	Pass	PK	121.18M	31.36	43.50	-12.14	-18.91	Vertical	-	50.27	16.76	0.81	36.48
Mode 2	Pass	PK	266.68M	30.89	46.00	-15.11	-16.34	Vertical	-	47.23	18.73	1.33	36.40
Mode 2	Pass	PK	532.46M	37.40	46.00	-8.60	-11.86	Vertical	-	49.26	23.24	1.96	37.06
Mode 2	Pass	PK	800.18M	37.03	46.00	-8.97	-7.70	Vertical	-	44.73	27.21	2.60	37.51
Mode 2	Pass	PK	953.44M	32.30	46.00	-13.70	-4.31	Vertical	-	36.61	30.12	2.91	37.34
Mode 2	Pass	PK	30M	25.00	40.00	-15.00	-13.20	Horizontal	-	38.20	23.51	0.40	37.11
Mode 2	Pass	PK	94.02M	35.23	43.50	-8.27	-21.40	Horizontal	-	56.63	14.47	0.70	36.57
Mode 2	Pass	PK	229.82M	29.73	46.00	-16.27	-19.65	Horizontal	-	49.38	15.46	1.22	36.33
Mode 2	Pass	PK	534.4M	39.33	46.00	-6.67	-11.83	Horizontal	-	51.16	23.26	1.97	37.06
Mode 2	Pass	PK	774.96M	39.09	46.00	-6.91	-7.44	Horizontal	-	46.53	27.36	2.55	37.35
Mode 2	Pass	PK	960M	35.11	46.00	-10.89	-4.13	Horizontal	-	39.24	30.25	2.92	37.30
Mode 3	Pass	PK	30M	23.93	40.00	-16.07	-13.20	Vertical	-	37.13	23.51	0.40	37.11
Mode 3	Pass	PK	212.36M	20.61	43.50	-22.89	-20.92	Vertical	-	41.53	14.17	1.15	36.24
Mode 3	Pass	PK	218.18M	22.45	46.00	-23.55	-20.83	Vertical	-	43.28	14.27	1.17	36.27
Mode 3	Pass	PK	408.3M	23.65	46.00	-22.35	-13.24	Vertical	-	36.89	21.49	1.72	36.45
Mode 3	Pass	PK	774.96M	39.46	46.00	-6.54	-7.44	Vertical	-	46.90	27.36	2.55	37.35
Mode 3	Pass	PK	953.44M	35.07	46.00	-10.93	-4.31	Vertical	-	39.38	30.12	2.91	37.34
Mode 3	Pass	PK	30M	24.64	40.00	-15.36	-13.20	Horizontal	-	37.84	23.51	0.40	37.11
Mode 3	Pass	PK	214.3M	21.92	43.50	-21.58	-20.96	Horizontal	-	42.88	14.13	1.16	36.25
Mode 3	Pass	PK	224M	23.26	46.00	-22.74	-20.40	Horizontal	-	43.66	14.70	1.20	36.30
Mode 3	Pass	PK	515M	29.58	46.00	-16.42	-11.79	Horizontal	-	41.37	23.31	1.93	37.03
Mode 3	Pass	PK	774.96M	39.53	46.00	-6.47	-7.44	Horizontal	-	46.97	27.36	2.55	37.35
Mode 3	Pass	PK	895.24M	39.30	46.00	-6.70	-6.62	Horizontal	-	45.92	28.14	2.79	37.55

Radiated Emissions below 1GHz_Mode 2



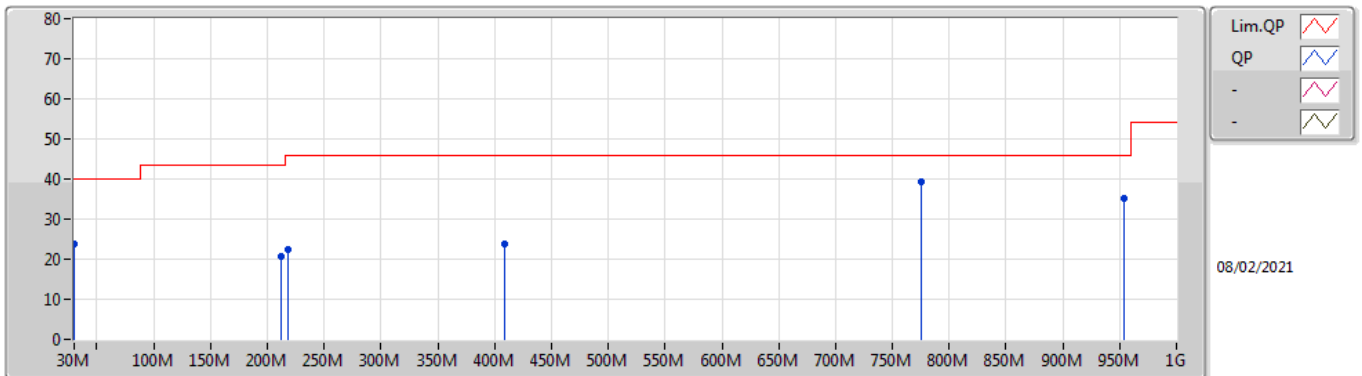
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	30M	23.93	40.00	-16.07	-13.20	3	Vertical	360	1.00	-	37.13	23.51	0.40	37.11
PK	121.18M	31.36	43.50	-12.14	-18.91	3	Vertical	360	1.00	-	50.27	16.76	0.81	36.48
PK	266.68M	30.89	46.00	-15.11	-16.34	3	Vertical	360	1.00	-	47.23	18.73	1.33	36.40
PK	532.46M	37.40	46.00	-8.60	-11.86	3	Vertical	360	1.00	-	49.26	23.24	1.96	37.06
PK	800.18M	37.03	46.00	-8.97	-7.70	3	Vertical	360	1.00	-	44.73	27.21	2.60	37.51
PK	953.44M	32.30	46.00	-13.70	-4.31	3	Vertical	360	1.00	-	36.61	30.12	2.91	37.34

Radiated Emissions below 1GHz_Mode2



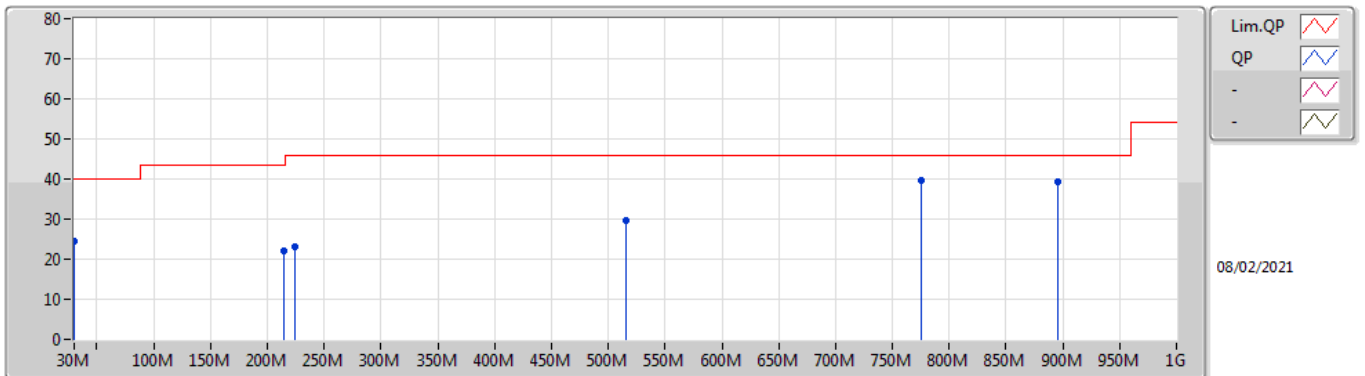
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	30M	25.00	40.00	-15.00	-13.20	3	Horizontal	0	1.00	-	38.20	23.51	0.40	37.11
PK	94.02M	35.23	43.50	-8.27	-21.40	3	Horizontal	0	1.00	-	56.63	14.47	0.70	36.57
PK	229.82M	29.73	46.00	-16.27	-19.65	3	Horizontal	0	1.00	-	49.38	15.46	1.22	36.33
PK	534.4M	39.33	46.00	-6.67	-11.83	3	Horizontal	0	1.00	-	51.16	23.26	1.97	37.06
PK	774.96M	39.09	46.00	-6.91	-7.44	3	Horizontal	0	1.00	-	46.53	27.36	2.55	37.35
PK	960M	35.11	46.00	-10.89	-4.13	3	Horizontal	0	1.00	-	39.24	30.25	2.92	37.30

Radiated Emissions below 1GHz_Mode3



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	30M	23.93	40.00	-16.07	-13.20	3	Vertical	360	1.00	-	37.13	23.51	0.40	37.11
PK	212.36M	20.61	43.50	-22.89	-20.92	3	Vertical	360	1.00	-	41.53	14.17	1.15	36.24
PK	218.18M	22.45	46.00	-23.55	-20.83	3	Vertical	360	1.00	-	43.28	14.27	1.17	36.27
PK	408.3M	23.65	46.00	-22.35	-13.24	3	Vertical	360	1.00	-	36.89	21.49	1.72	36.45
PK	774.96M	39.46	46.00	-6.54	-7.44	3	Vertical	360	1.00	-	46.90	27.36	2.55	37.35
PK	953.44M	35.07	46.00	-10.93	-4.31	3	Vertical	360	1.00	-	39.38	30.12	2.91	37.34

Radiated Emissions below 1GHz_Mode3



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	30M	24.64	40.00	-15.36	-13.20	3	Horizontal	0	1.00	-	37.84	23.51	0.40	37.11
PK	214.3M	21.92	43.50	-21.58	-20.96	3	Horizontal	0	1.00	-	42.88	14.13	1.16	36.25
PK	224M	23.26	46.00	-22.74	-20.40	3	Horizontal	0	1.00	-	43.66	14.70	1.20	36.30
PK	515M	29.58	46.00	-16.42	-11.79	3	Horizontal	0	1.00	-	41.37	23.31	1.93	37.03
PK	774.96M	39.53	46.00	-6.47	-7.44	3	Horizontal	0	1.00	-	46.97	27.36	2.55	37.35
PK	895.24M	39.30	46.00	-6.70	-6.62	3	Horizontal	0	1.00	-	45.92	28.14	2.79	37.55



Summary

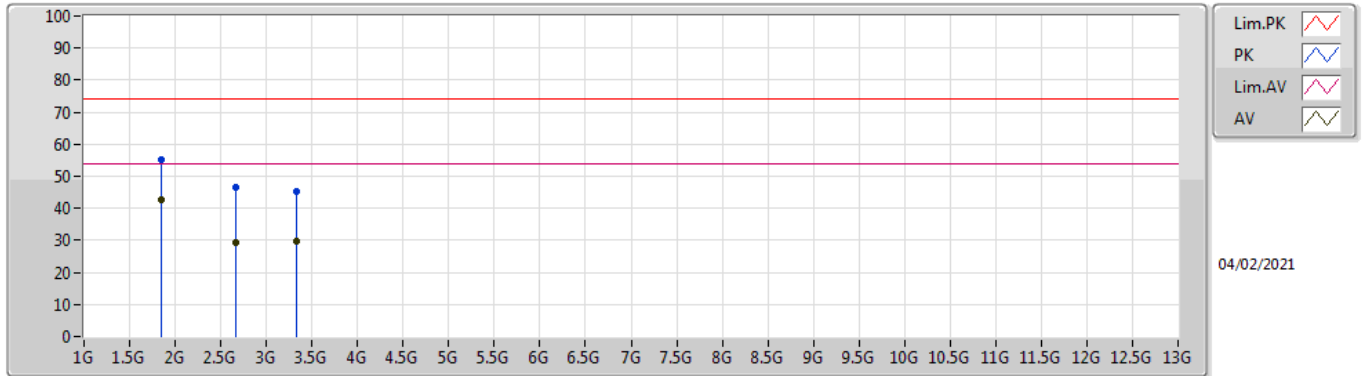
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	AV	1.84G	42.59	54.00	-11.41	3	Vertical	0	1.00	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	AV	1.84G	42.59	54.00	-11.41	3	Vertical	0	1.00	-
2440MHz	Pass	AV	2.66G	29.41	54.00	-24.59	3	Vertical	0	1.00	-
2440MHz	Pass	AV	3.33G	29.90	54.00	-24.10	3	Vertical	0	1.00	-
2440MHz	Pass	PK	1.84G	55.05	74.00	-18.95	3	Vertical	0	1.00	-
2440MHz	Pass	PK	2.66G	46.44	74.00	-27.56	3	Vertical	0	1.00	-
2440MHz	Pass	PK	3.33G	45.12	74.00	-28.88	3	Vertical	0	1.00	-
2440MHz	Pass	AV	1.75G	34.22	54.00	-19.78	3	Horizontal	360	1.00	-
2440MHz	Pass	AV	1.99G	33.98	54.00	-20.02	3	Horizontal	360	1.00	-
2440MHz	Pass	AV	2.3G	30.52	54.00	-23.48	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	1.75G	52.05	74.00	-21.95	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	1.99G	49.50	74.00	-24.50	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	2.3G	46.22	74.00	-27.78	3	Horizontal	360	1.00	-

BT-LE(1Mbps)RX

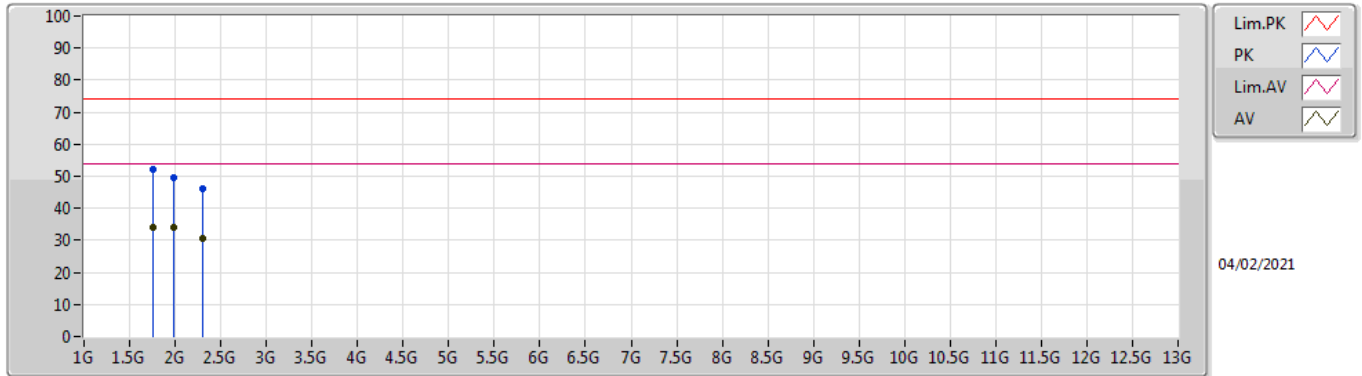
2440MHz_RX



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)
AV	1.84G	42.59	54.00	-11.41	-6.14	3	Vertical	0	1.00	-	48.73	25.38	3.24	34.76
AV	2.66G	29.41	54.00	-24.59	-2.85	3	Vertical	0	1.00	-	32.26	27.82	4.29	34.96
AV	3.33G	29.90	54.00	-24.10	-1.93	3	Vertical	0	1.00	-	31.83	28.38	4.80	35.11
PK	1.84G	55.05	74.00	-18.95	-6.14	3	Vertical	0	1.00	-	61.19	25.38	3.24	34.76
PK	2.66G	46.44	74.00	-27.56	-2.85	3	Vertical	0	1.00	-	49.29	27.82	4.29	34.96
PK	3.33G	45.12	74.00	-28.88	-1.93	3	Vertical	0	1.00	-	47.05	28.38	4.80	35.11

BT-LE(1Mbps)RX

2440MHz_RX



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)
AV	1.75G	34.22	54.00	-19.78	-6.46	3	Horizontal	360	1.00	-	40.69	25.20	3.15	34.81
AV	1.99G	33.98	54.00	-20.02	-5.23	3	Horizontal	360	1.00	-	39.21	26.06	3.39	34.68
AV	2.3G	30.52	54.00	-23.48	-3.17	3	Horizontal	360	1.00	-	33.69	27.90	3.75	34.82
PK	1.75G	52.05	74.00	-21.95	-6.46	3	Horizontal	360	1.00	-	58.51	25.20	3.15	34.81
PK	1.99G	49.50	74.00	-24.50	-5.23	3	Horizontal	360	1.00	-	54.73	26.06	3.39	34.68
PK	2.3G	46.22	74.00	-27.78	-3.17	3	Horizontal	360	1.00	-	49.39	27.90	3.75	34.82