

FCC Radio Test Report

FCC ID : BKMAE-STI6200B
Equipment : WLAN/BT Module
Brand Name : EPSON
Model Name : STI6200B
Applicant : SEIKO EPSON CORPORATION
3-3-5 Owa Suwa-shi Nagano-ken 392-8502 Japan
Manufacturer : SEIKO EPSON CORPORATION
6925 Tazawa, Toyoshina Azumino-shi, Nagano 399-8285 Japan
Standard : 47 CFR FCC Part 15.247

The product was received on Jul. 21, 2021, and testing was started from Jul. 30, 2021 and completed on Aug. 17, 2021. 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: Allen Lin

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



History of this test report

Report No.	Version	Description	Issued Date
FR153118AL	01	Initial issue of report	Sep. 14, 2021



Summary of Test Result

Report Clause	Ref.Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.247(a)	DTS Bandwidth	PASS	-
3.3	15.247(b)	Maximum Conducted Output Power	PASS	-
3.4	15.247(e)	Power Spectral Density	PASS	-
3.5	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
3.6	15.247(d)	Emissions in Restricted Frequency Bands	PASS	-

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and explanations:
None

Reviewed by: Ben Tseng
Report Producer: Jenny Yang

1 General Description

1.1 Information

1.1.1 RF General Information

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

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	BT-LE(1Mbps)	1.0	1TX
2.4-2.4835GHz	BT-LE(2Mbps)	2.0	1TX

Note:

- ♦ Bluetooth LE uses a GFSK (1Mbps/2Mbps) modulation.
- ♦ BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector
1	HONGBO	290-40488	PIFA	I-Pex
2	HONGBO	290-40488	PIFA	I-Pex

Ant.	Port	Gain (dBi)		
		2.4G	5G	BT
1	2	2.34	5.29	-
2	1	2.74	4.50	2.74

Note 1: The EUT has two antennas.

For 2.4GHz function:

For IEEE 802.11 b mode (1TX/2RX)

Only Ant. 2 (port 1) can be used as transmitting/receiving antenna.

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

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

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

For BT function:

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

Only Ant. 2 (port 1) can be used as transmitting/receiving.

For 5GHz function:

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

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



1.1.3 EUT Information

Operational Condition	
EUT Power Type	From Test Fixture
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) $\geq 1/T$
BT-LE(1Mbps)	0.609	2.15	379.375u	3k
BT-LE(2Mbps)	0.316	5	196.25u	10k

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



1.2 Testing Applied Standards

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

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

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	Billy Wang	23.1~24.2°C / 58~62%	04/Aug/2021
RF Conducted	TH06-HY	Howard Lee	20.8~25.9°C / 50~60%	04/Aug/2021~17/Aug/2021
Radiated	03CH03-HY	Edward Wang	23.6~24.4°C / 54~60%	30/Jul/2021~17/Aug/2021
<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
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 Channel Mode

Test Software Version	Ampak RFTestTool, VER 7.1
Mode	Power Setting
BT-LE(1Mbps)	-
2402MHz	default
2440MHz	default
2480MHz	default
BT-LE(2Mbps)	-
2402MHz	default
2440MHz	default
2480MHz	default

2.2 The Worst Case Measurement Configuration

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	DTS Bandwidth Maximum Conducted Output Power Power Spectral Density Emissions in Non-restricted Frequency Bands
Test Condition	Conducted measurement at transmit chains

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emissions in Restricted Frequency Bands
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	CTX
1	Test Fixture Mode
Operating Mode > 1GHz	CTX
Orthogonal Planes of EUT	Z Plane
	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Test Condition	Radiated measurement
Operating Mode	Normal Link
1	WLAN 2.4GHz+Bluetooth
2	WLAN 5GHz+Bluetooth
Refer to Sporton Test Report No.: FA153118 for Co-location RF Exposure Evaluation and Appendix G for Radiated Emission Co-location.	

2.3 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	Test Fixture	Askey	STI6200-D101-Ro HS-EVB REV:2	-	Note 1
3	AC Adapter	APD	WB-18D12FU	-	-

Note 1: Provided by Customer

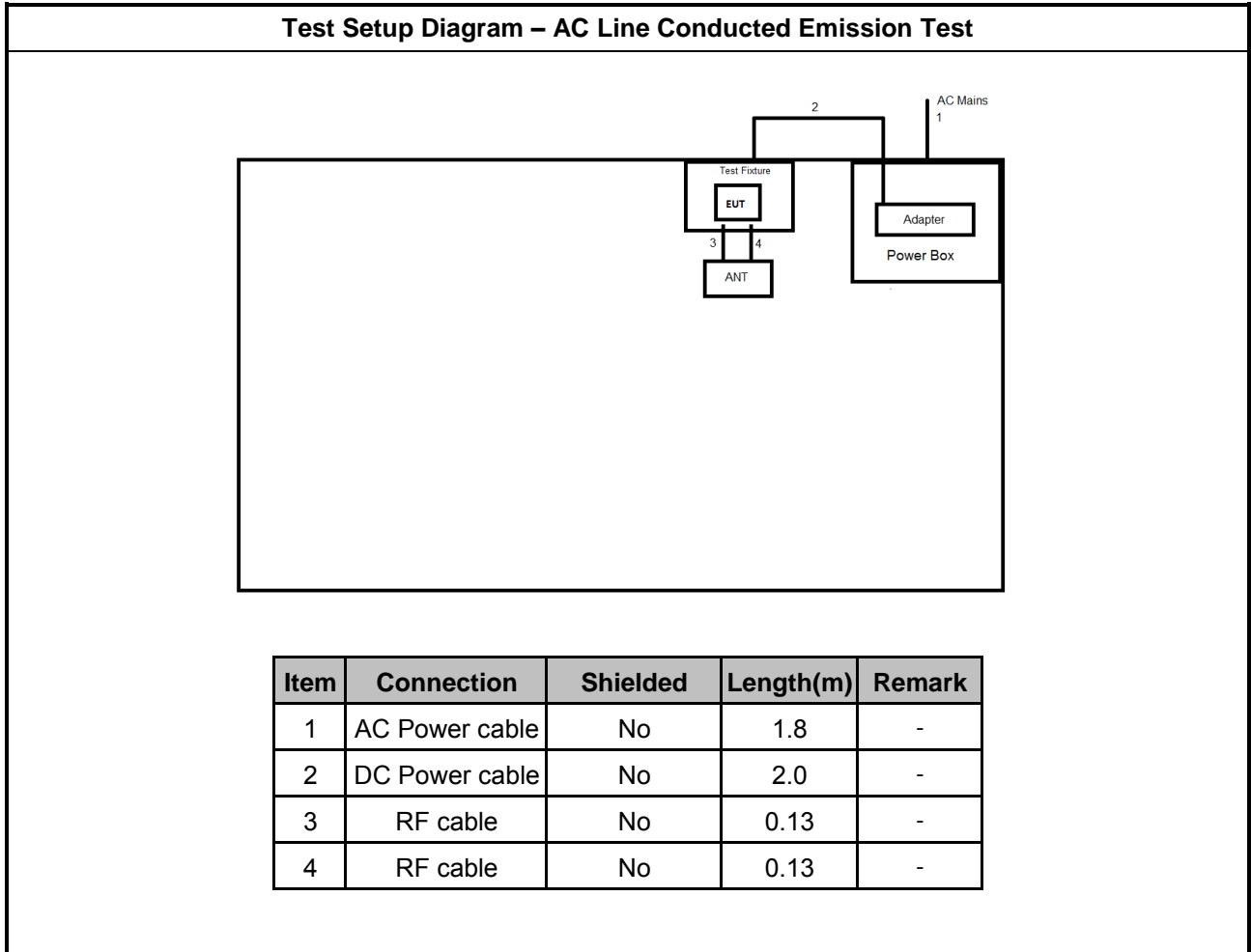
Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-
3	Adapter	APD	WB-18D12FU	-	-
4	Test Fixture	Askey	STI6200-D101-Ro HS-EVB REV:2	-	Note 1
5	Monitor	DELL	UltraSharp U2410f	-	-
6	HDMI Cable	Sporton	Sporton	-	-
7	Remote Controller	EPSON	RC4261804	-	-

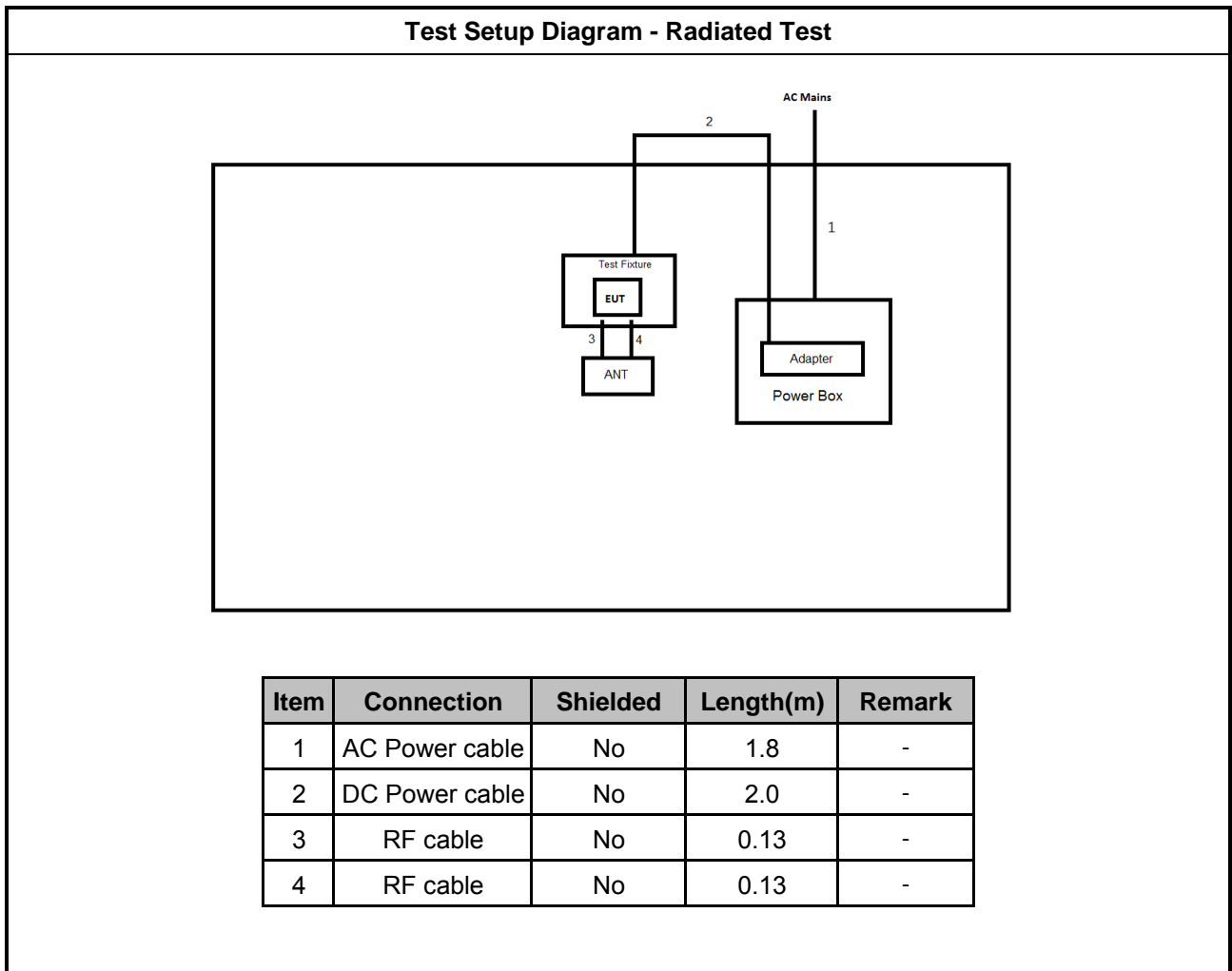
Note 1: Provided by Customer

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	AC Power Cable	Power Sync	PW-GPC180-3	-	-
2	Test Fixture	Askey	STI6200-D101-Ro HS-EVB REV:2	-	Note 1
3	AC Adapter	APD	WB-18D12FU	-	-

Note 1: Provided by Customer

2.4 Test Setup Diagram





3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: * Decreases with the logarithm of the frequency.

3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

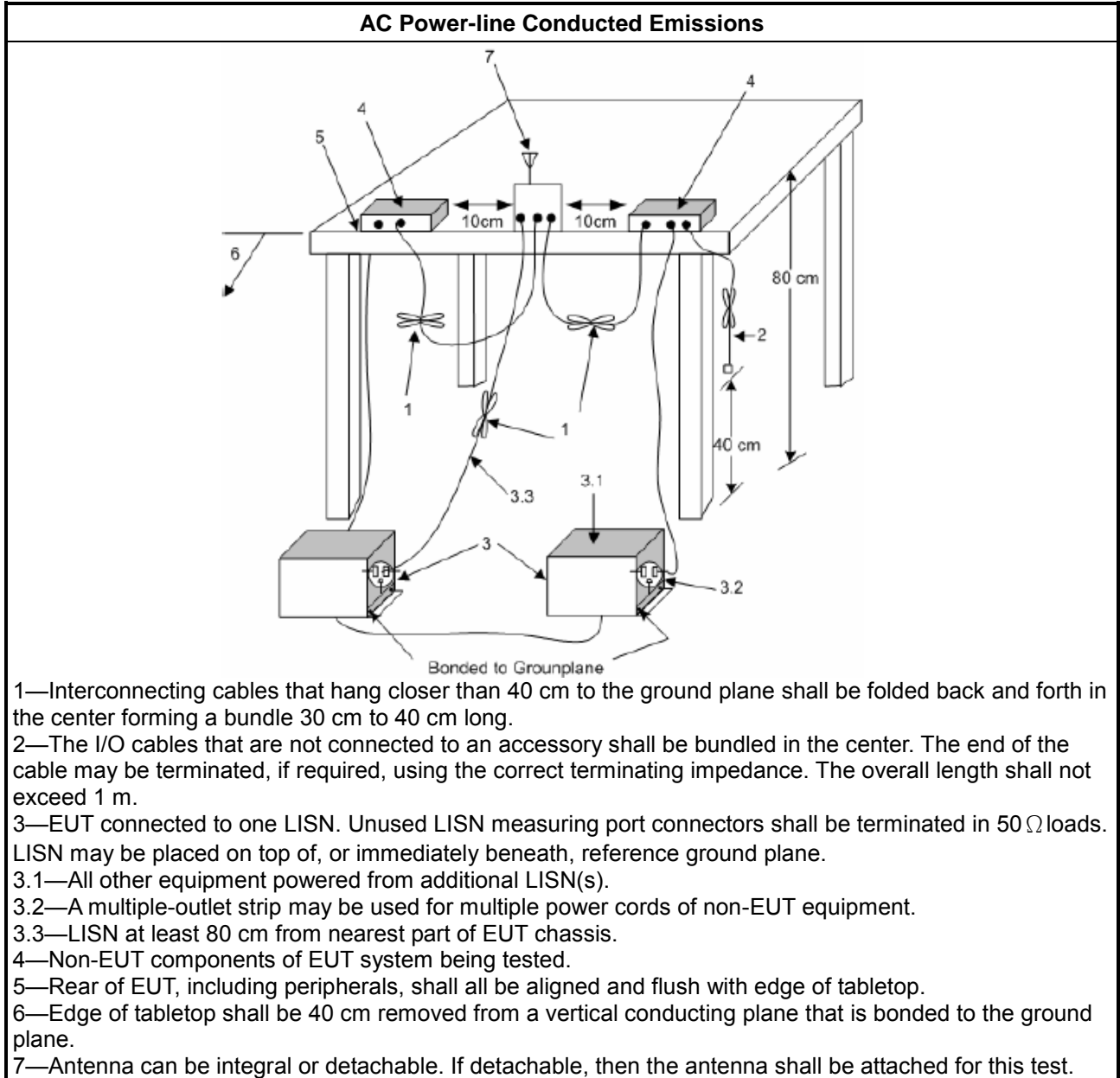
Test Method
<ul style="list-style-type: none"> Refer as ANSI C63.10-2013, clause 6.2 foray power-line conducted emissions.

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

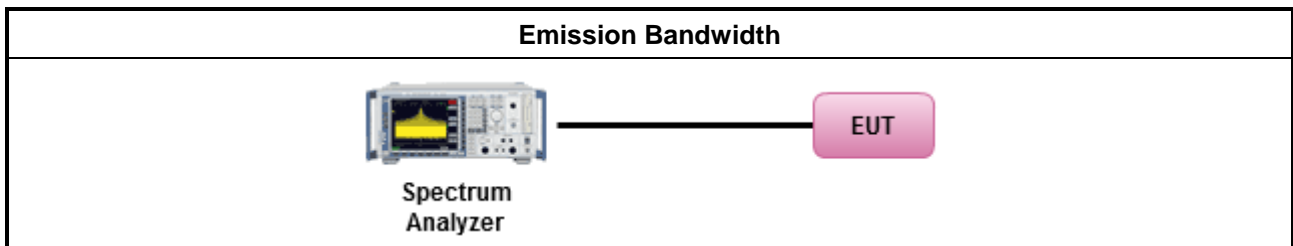
3.2.2 Measuring Instruments

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 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>	

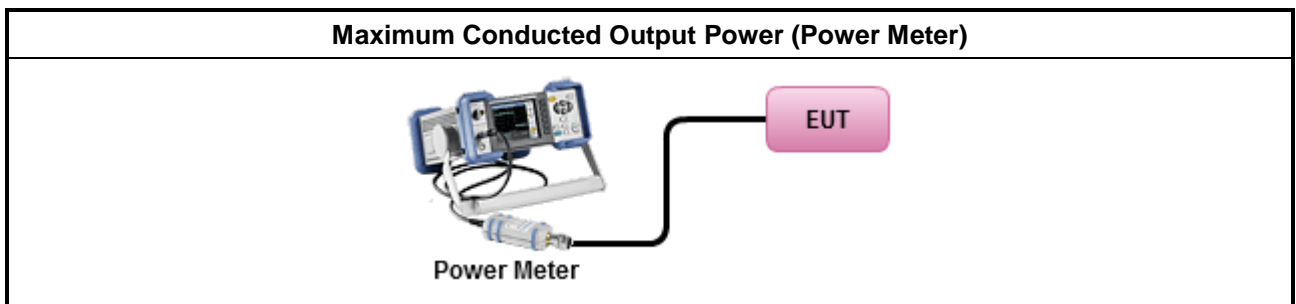
3.3.2 Measuring Instruments

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

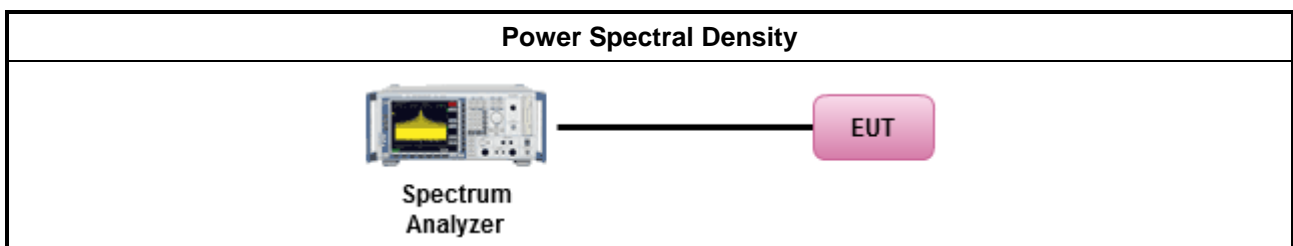
3.4.2 Measuring Instruments

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.

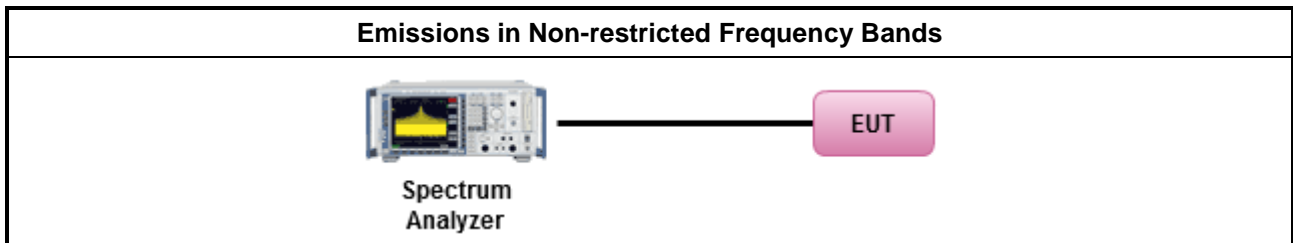
3.5.2 Measuring Instruments

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

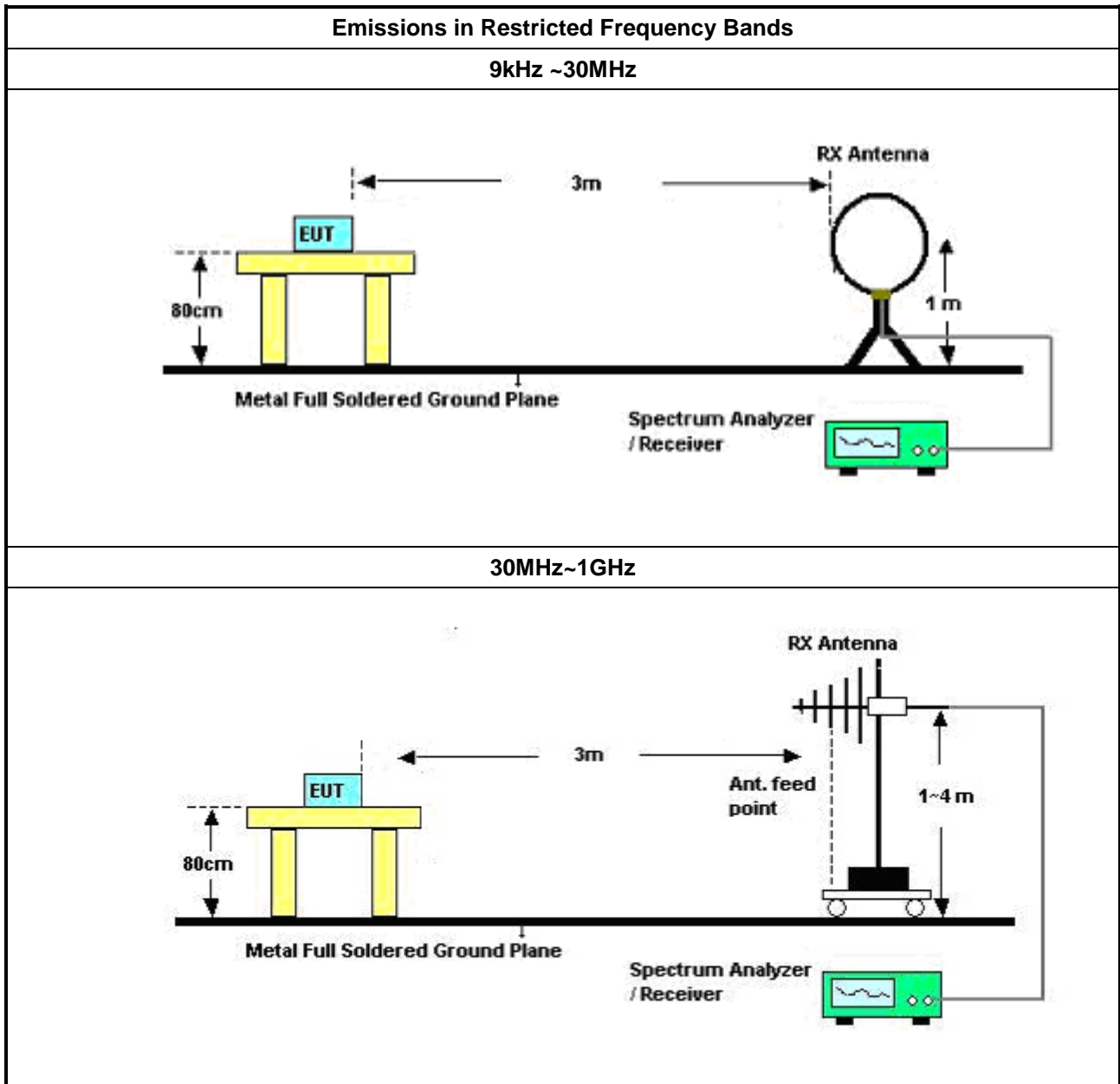
Test Method	
	<ul style="list-style-type: none"> ▪ The average emission levels shall be measured in [duty cycle \geq 98 or duty factor].
	<ul style="list-style-type: none"> ▪ Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency 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. ▪ 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.
	<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 $f \geq 1$ 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 FCC 15.31(f)(2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field. ▪ Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

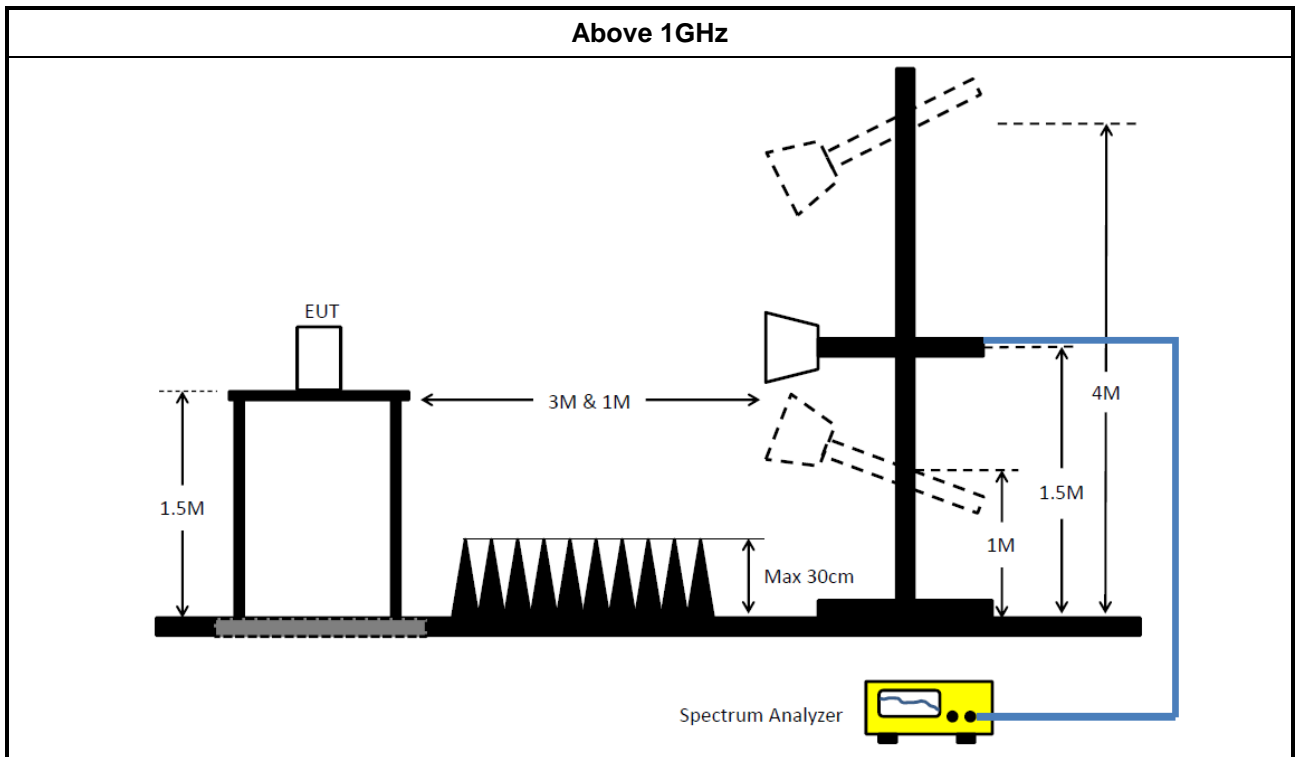
3.6.4 Measurement Results Calculation

The measured Level is calculated using:

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

3.6.5 Test Setup





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

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

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F



4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR	102052	9kHz ~ 3.6GHz	19/Apr/2021	18/Apr/2022
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	11/Nov/2020	10/Nov/2021
RF Cable 5m	TITAN	TITAN	CO04-cable-01	0.1MHz~200MHz	03/Mar/2021	02/Mar/2022
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	21/Sep/2020	20/Sep/2021

Instrument for Conducted Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101029	10Hz~40GHz	19/Oct/2020	18/Oct/2021
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	20/Oct/2020	19/Oct/2021
Pulse Sensor	Anritsu	MA2411B	1027452	300MHz~40GHz	25/Mar/2021	24/Mar/2022
Power Meter	Anritsu	ML2495A	1124009	300MHz~40GHz	25/Mar/2021	24/Mar/2022



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	03/Aug/2021	02/Aug/2022
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	1GHz~18GHz 3m	03/Aug/2021	02/Aug/2022
Signal Analyzer	R&S	FSV40	101500	10Hz~40GHz	19/Aug/2020	18/Aug/2021
Amplifier	HP	8447D	2944A08033	10kHz~1.3GHz	13/Apr/2021	12/Apr/2022
Microwave System Preamplifier	KEYSIGHT	83017A	MY53270196	1GHz~26.5GHz	06/Oct/2020	05/Oct/2021
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1531	1GHz~18GHz	24/Mar/2021	23/Mar/2022
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz~30MHz	16/Jun/2021	15/Jun/2022
RF Cable-R03m	Jye Bao	RG142	MY37335/4+CB 021-1+CB021-2	30MHz~1GHz	17/Mar/2021	16/Mar/2022
RF CABLE 5+6m	HUBER+SUHNER	SUOFLEX 104	SN MY38596/4+SN 804300/4	1GHz~40GHz	28/Jul/2021	27/Jul/2022
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz~40GHz	11/Mar/2021	10/Mar/2022
Microwave Premplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~ 40GHz	09/Mar/2021	08/Mar/2022
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	16/Mar/2021	15/Mar/2022
EMI Test Receiver	R&S	ESR3	102052	9kHz~3.6GHz	19/Apr/2021	18/Apr/2022
Bilog Antenna & 5dB Attenuator	SCHAFFNER / MTJ	CBL 6112B / MTJ6102-05	2723 / 2	30MHz~1GHz	06/Sep/2020	05/Sep/2021



Summary

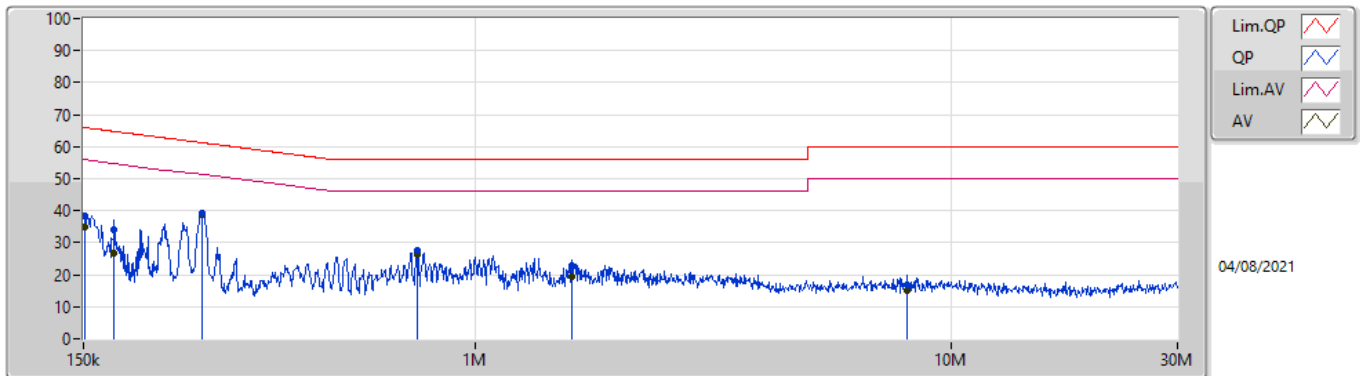
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	266.53k	39.67	51.22	-11.55	Neutral



Mode config

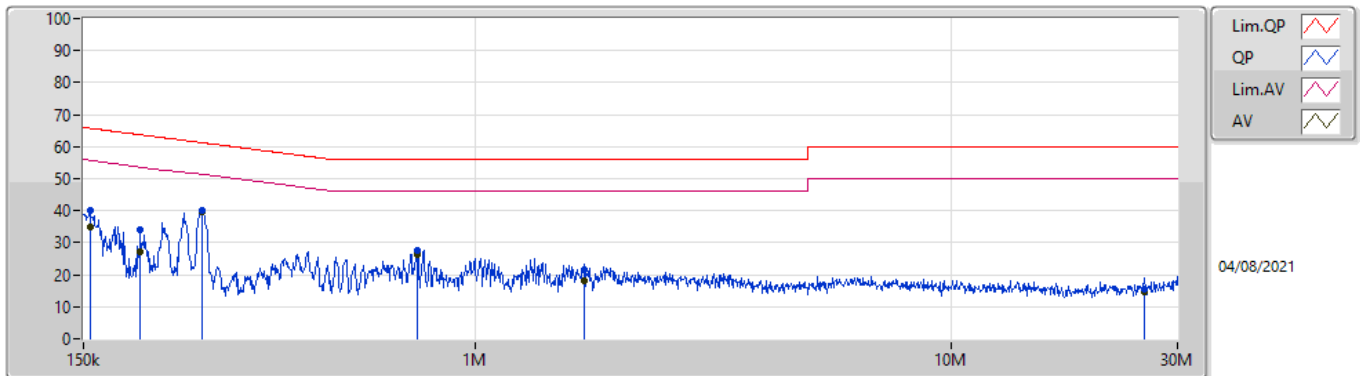
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	150.6k	38.50	65.96	-27.46	Line	-
Mode 1	Pass	AV	150.6k	34.87	55.96	-21.09	Line	-
Mode 1	Pass	QP	173.876k	34.11	64.78	-30.67	Line	-
Mode 1	Pass	AV	173.876k	26.75	54.78	-28.03	Line	-
Mode 1	Pass	QP	266.53k	39.19	61.22	-22.03	Line	-
Mode 1	Pass	AV	266.53k	38.88	51.22	-12.34	Line	-
Mode 1	Pass	QP	755.518k	27.70	56.00	-28.30	Line	-
Mode 1	Pass	AV	755.518k	26.23	46.00	-19.77	Line	-
Mode 1	Pass	QP	1.594M	22.92	56.00	-33.08	Line	-
Mode 1	Pass	AV	1.594M	19.59	46.00	-26.41	Line	-
Mode 1	Pass	QP	8.092M	16.68	60.00	-43.32	Line	-
Mode 1	Pass	AV	8.092M	15.23	50.00	-34.77	Line	-
Mode 1	Pass	QP	154.868k	39.91	65.73	-25.82	Neutral	-
Mode 1	Pass	AV	154.868k	34.77	55.73	-20.96	Neutral	-
Mode 1	Pass	QP	197.568k	33.89	63.71	-29.82	Neutral	-
Mode 1	Pass	AV	197.568k	27.31	53.71	-26.40	Neutral	-
Mode 1	Pass	QP	266.53k	40.02	61.22	-21.20	Neutral	-
Mode 1	Pass	AV	266.53k	39.67	51.22	-11.55	Neutral	-
Mode 1	Pass	QP	755.518k	27.57	56.00	-28.43	Neutral	-
Mode 1	Pass	AV	755.518k	26.31	46.00	-19.69	Neutral	-
Mode 1	Pass	QP	1.692M	21.57	56.00	-34.43	Neutral	-
Mode 1	Pass	AV	1.692M	18.03	46.00	-27.97	Neutral	-
Mode 1	Pass	QP	25.549M	15.62	60.00	-44.38	Neutral	-
Mode 1	Pass	AV	25.549M	14.60	50.00	-35.40	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	150.6k	38.50	65.96	-27.46	19.63	Line	-	18.87	9.69	0.04	9.90
AV	150.6k	34.87	55.96	-21.09	19.63	Line	-	15.24	9.69	0.04	9.90
QP	173.876k	34.11	64.78	-30.67	19.62	Line	-	14.49	9.68	0.04	9.90
AV	173.876k	26.75	54.78	-28.03	19.62	Line	-	7.13	9.68	0.04	9.90
QP	266.53k	39.19	61.22	-22.03	19.63	Line	-	19.56	9.68	0.05	9.90
AV	266.53k	38.88	51.22	-12.34	19.63	Line	-	19.25	9.68	0.05	9.90
QP	755.518k	27.70	56.00	-28.30	19.57	Line	-	8.13	9.67	0.07	9.83
AV	755.518k	26.23	46.00	-19.77	19.57	Line	-	6.66	9.67	0.07	9.83
QP	1.594M	22.92	56.00	-33.08	19.57	Line	-	3.35	9.68	0.09	9.80
AV	1.594M	19.59	46.00	-26.41	19.57	Line	-	0.02	9.68	0.09	9.80
QP	8.092M	16.68	60.00	-43.32	19.80	Line	-	-3.12	9.71	0.19	9.90
AV	8.092M	15.23	50.00	-34.77	19.80	Line	-	-4.57	9.71	0.19	9.90

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	154.868k	39.91	65.73	-25.82	19.63	Neutral	-	20.28	9.69	0.04	9.90
AV	154.868k	34.77	55.73	-20.96	19.63	Neutral	-	15.14	9.69	0.04	9.90
QP	197.568k	33.89	63.71	-29.82	19.62	Neutral	-	14.27	9.68	0.04	9.90
AV	197.568k	27.31	53.71	-26.40	19.62	Neutral	-	7.69	9.68	0.04	9.90
QP	266.53k	40.02	61.22	-21.20	19.63	Neutral	-	20.39	9.68	0.05	9.90
AV	266.53k	39.67	51.22	-11.55	19.63	Neutral	-	20.04	9.68	0.05	9.90
QP	755.518k	27.57	56.00	-28.43	19.57	Neutral	-	8.00	9.67	0.07	9.83
AV	755.518k	26.31	46.00	-19.69	19.57	Neutral	-	6.74	9.67	0.07	9.83
QP	1.692M	21.57	56.00	-34.43	19.58	Neutral	-	1.99	9.68	0.10	9.80
AV	1.692M	18.03	46.00	-27.97	19.58	Neutral	-	-1.55	9.68	0.10	9.80
QP	25.549M	15.62	60.00	-44.38	19.94	Neutral	-	-4.32	9.72	0.32	9.90
AV	25.549M	14.60	50.00	-35.40	19.94	Neutral	-	-5.34	9.72	0.32	9.90



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)	688.75k	1.048M	1M05F1D	683.75k	1.044M
BT-LE(2Mbps)	1.248M	2.049M	2M05F1D	1.24M	2.041M

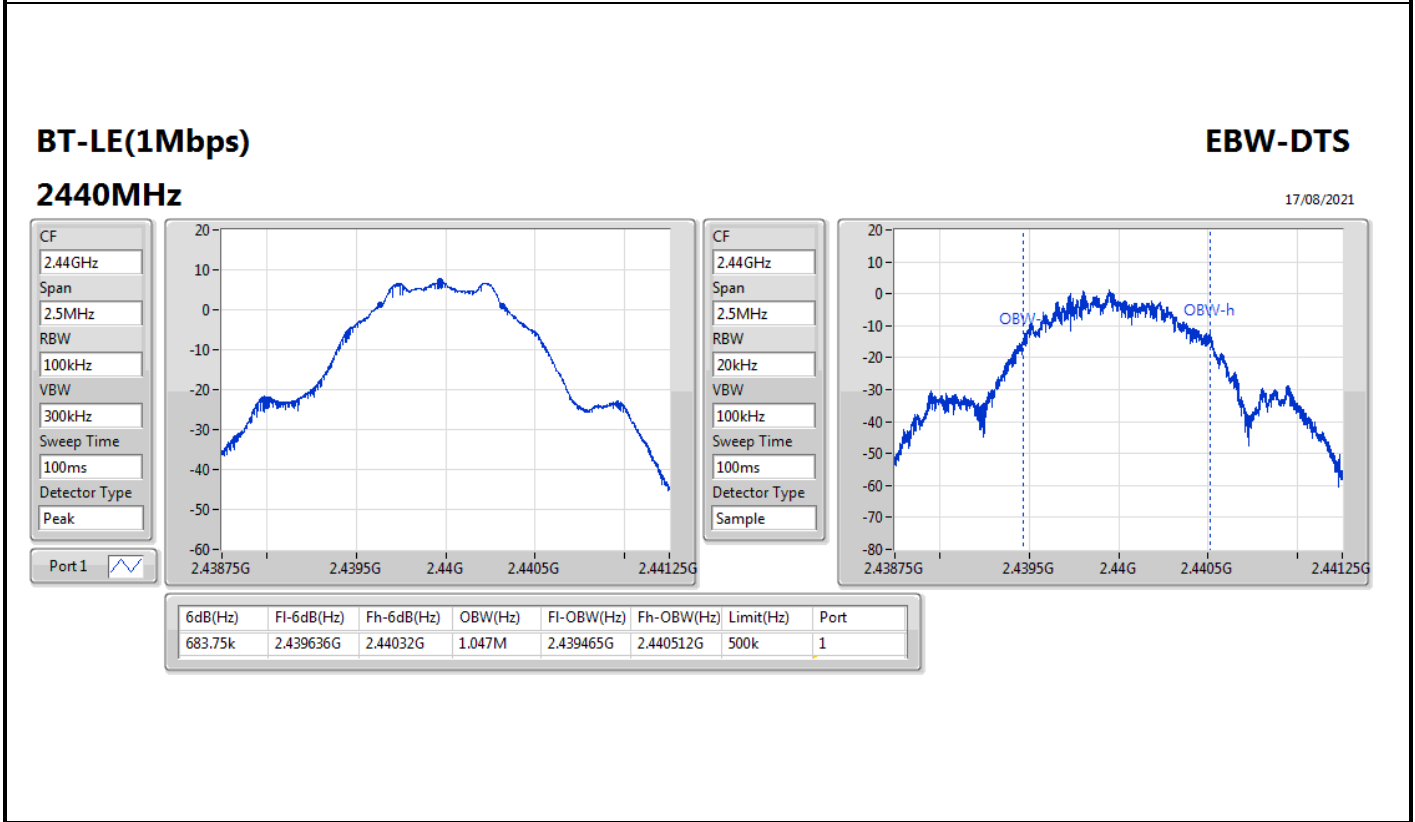
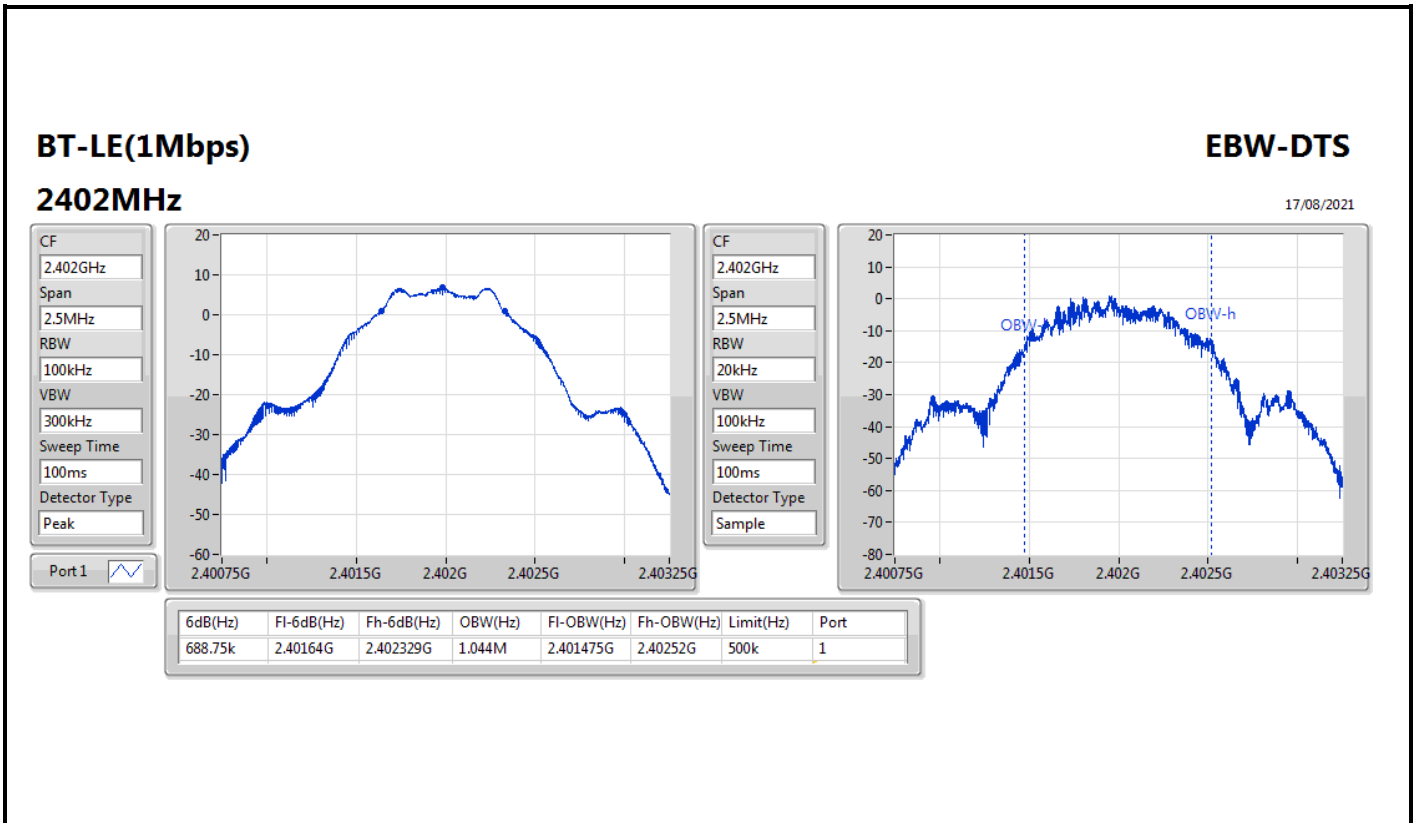
Max-N dB = Maximum 6dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

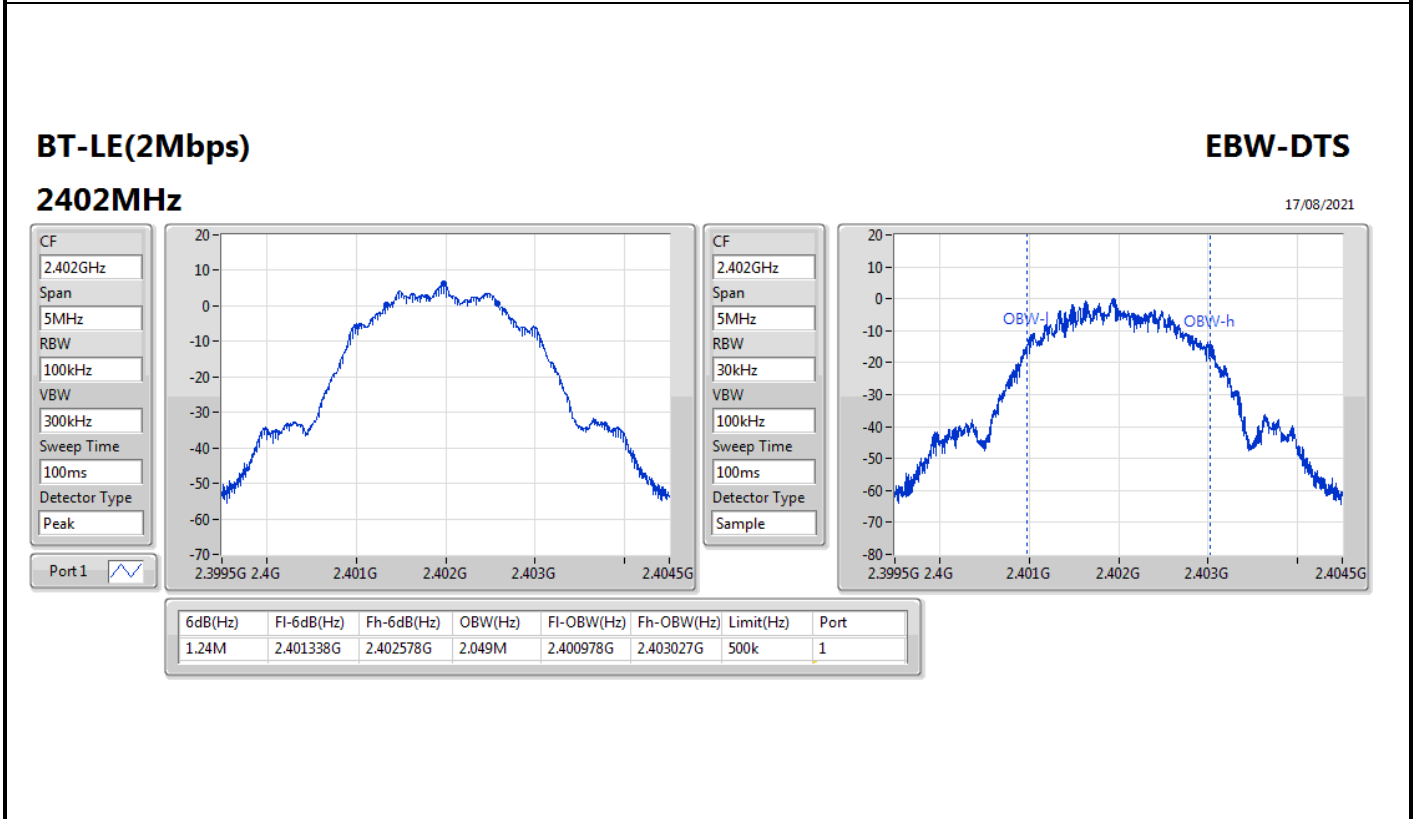
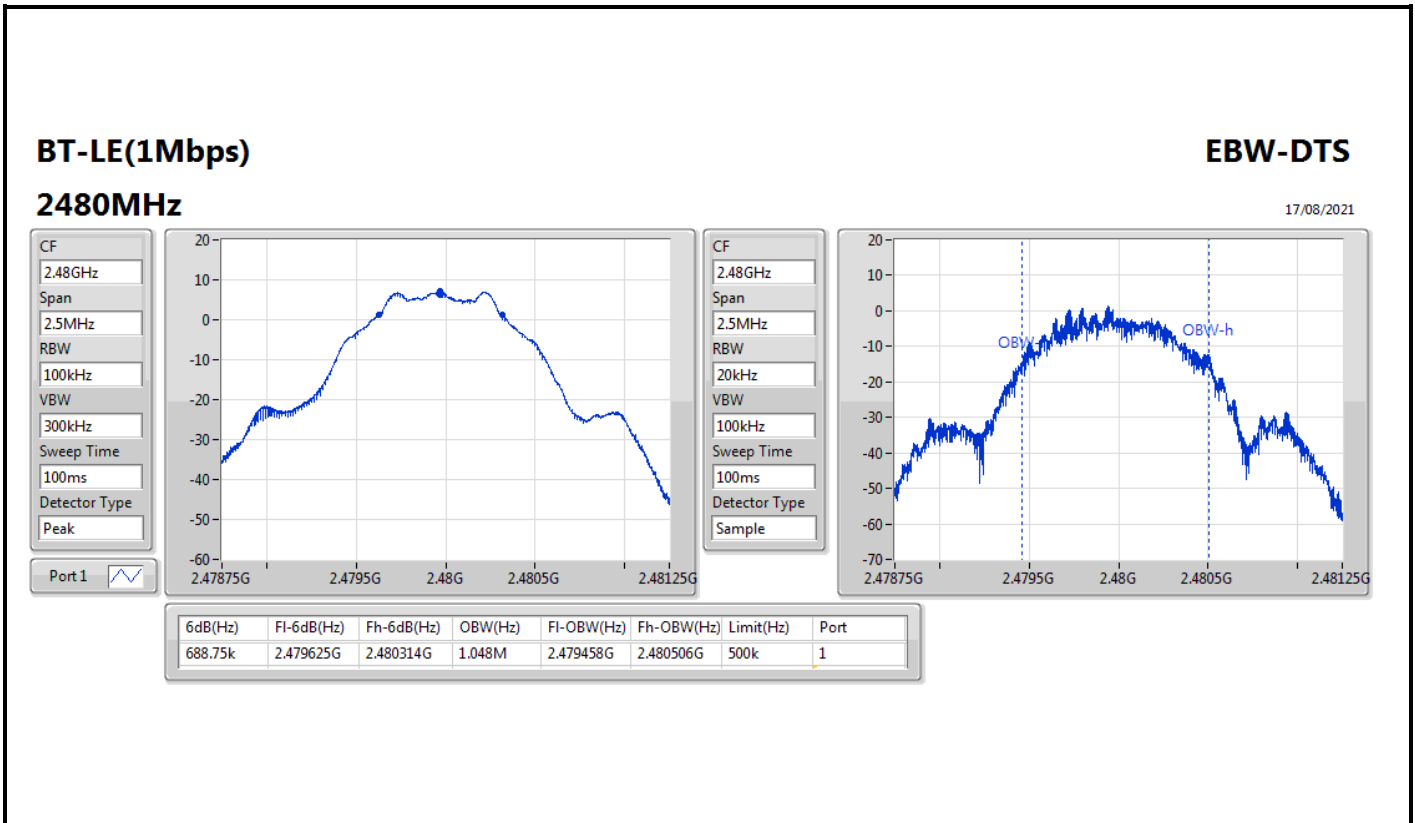


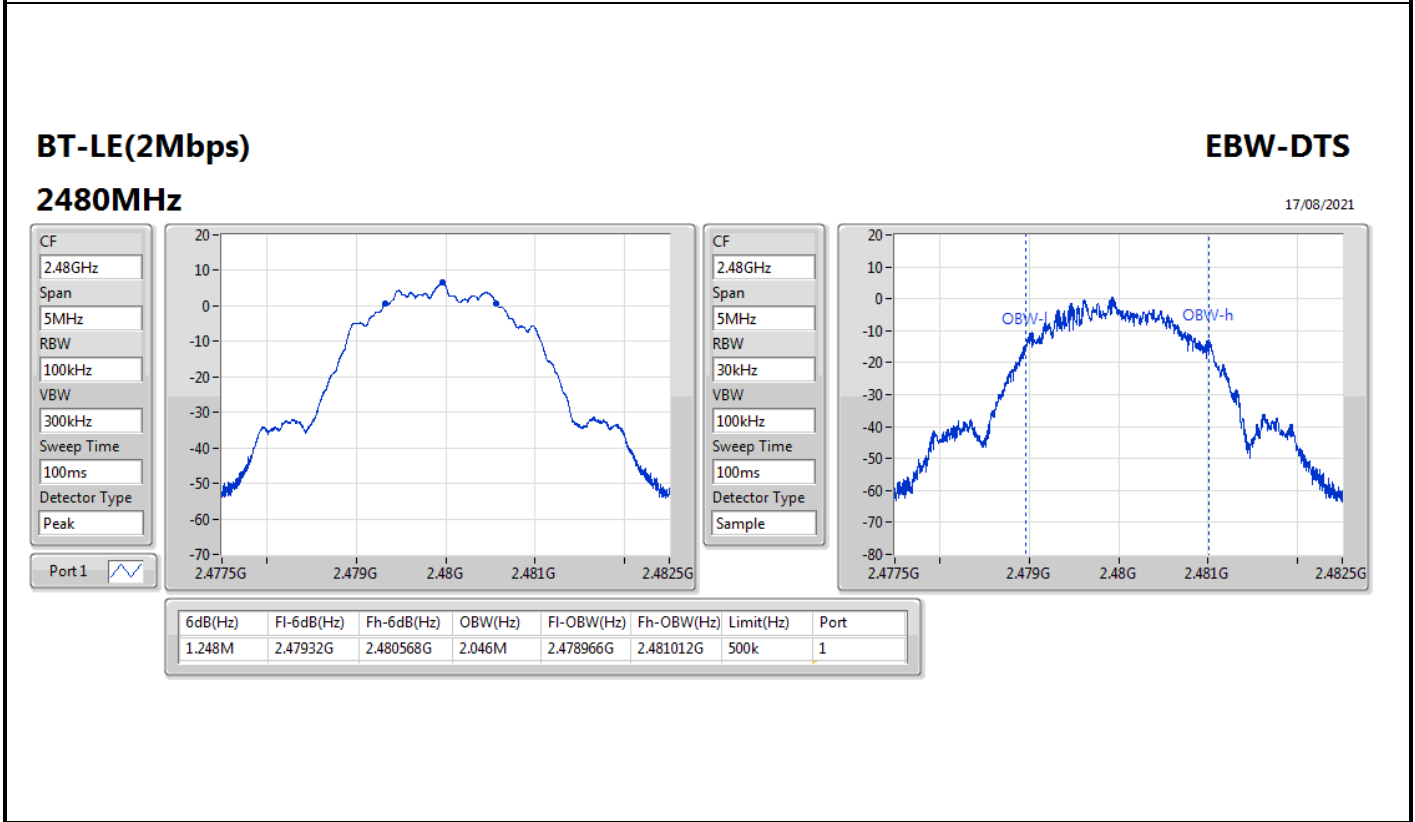
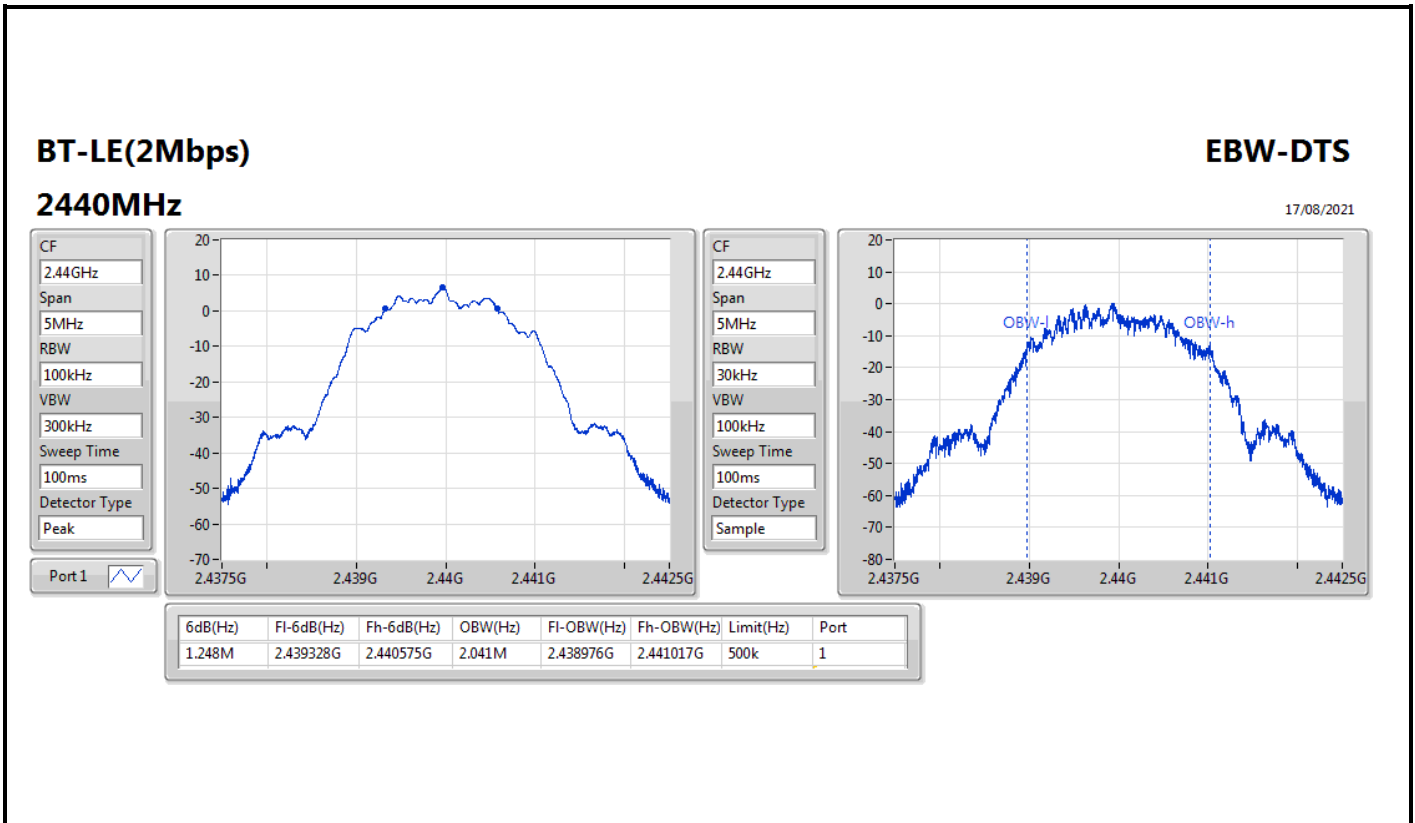
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	500k	688.75k	1.044M
2440MHz	Pass	500k	683.75k	1.047M
2480MHz	Pass	500k	688.75k	1.048M
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	500k	1.24M	2.049M
2440MHz	Pass	500k	1.248M	2.041M
2480MHz	Pass	500k	1.248M	2.046M

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









Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	7.26	0.00532
BT-LE(2Mbps)	7.08	0.00511



Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	2.74	6.99	30.00
2440MHz	Pass	2.74	7.02	30.00
2480MHz	Pass	2.74	7.26	30.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	2.74	6.84	30.00
2440MHz	Pass	2.74	6.93	30.00
2480MHz	Pass	2.74	7.08	30.00

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



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
BT-LE(1Mbps)	-8.14
BT-LE(2Mbps)	-10.38

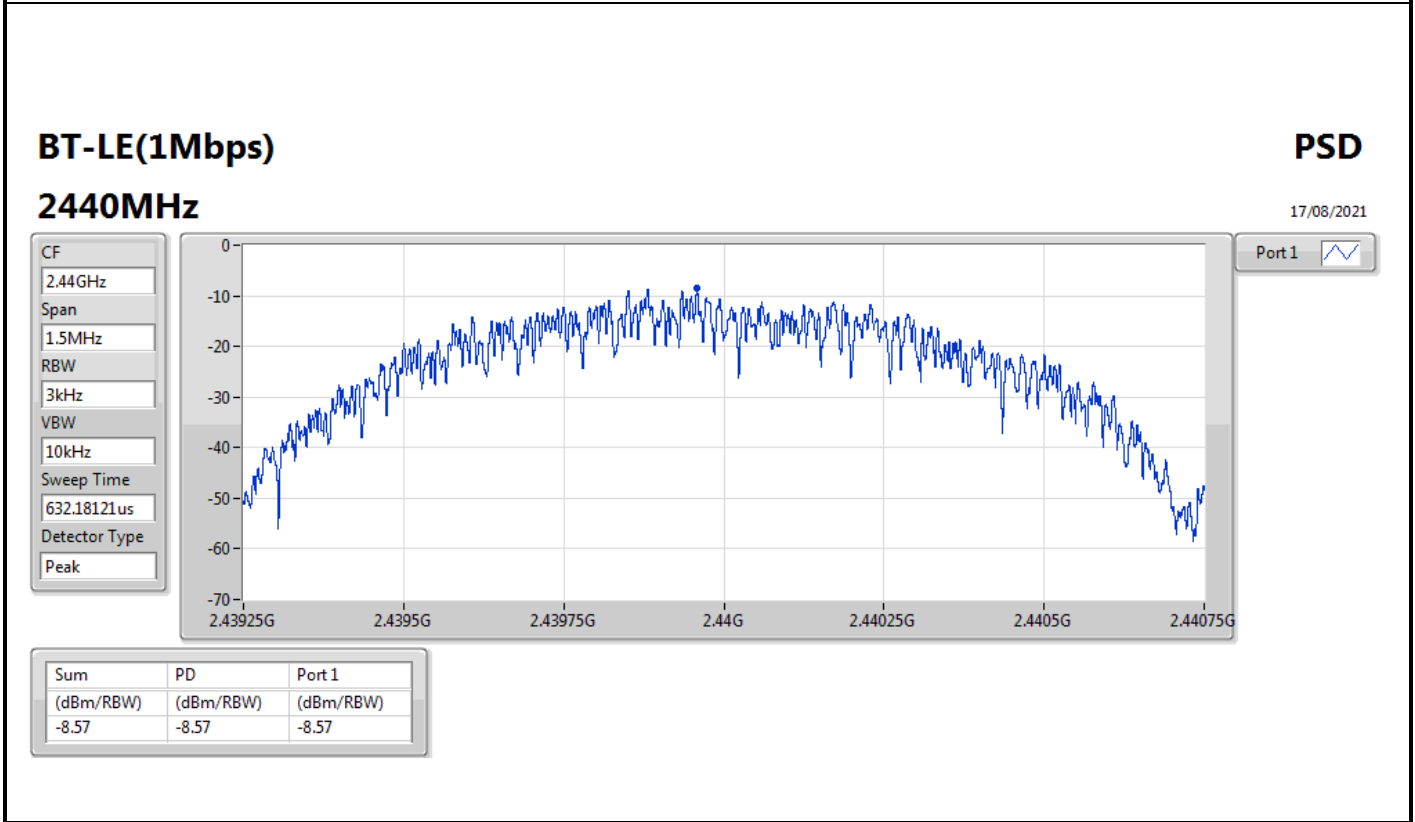
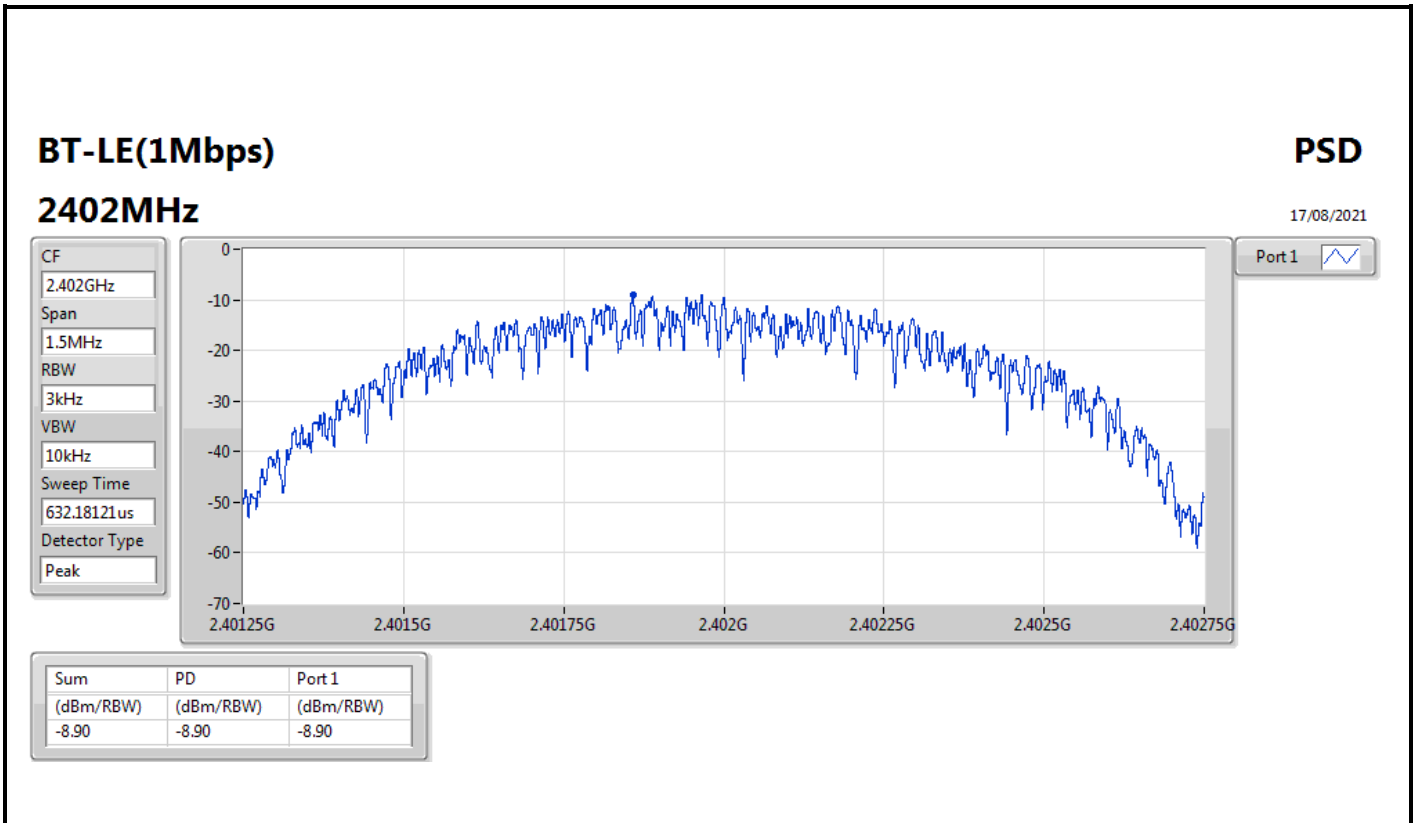
RBW = 3kHz;



Result

Mode	Result	Gain (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	2.74	-8.90	8.00
2440MHz	Pass	2.74	-8.57	8.00
2480MHz	Pass	2.74	-8.14	8.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	2.74	-11.96	8.00
2440MHz	Pass	2.74	-10.85	8.00
2480MHz	Pass	2.74	-10.38	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)

PSD

2480MHz

17/08/2021

CF
2.48GHz

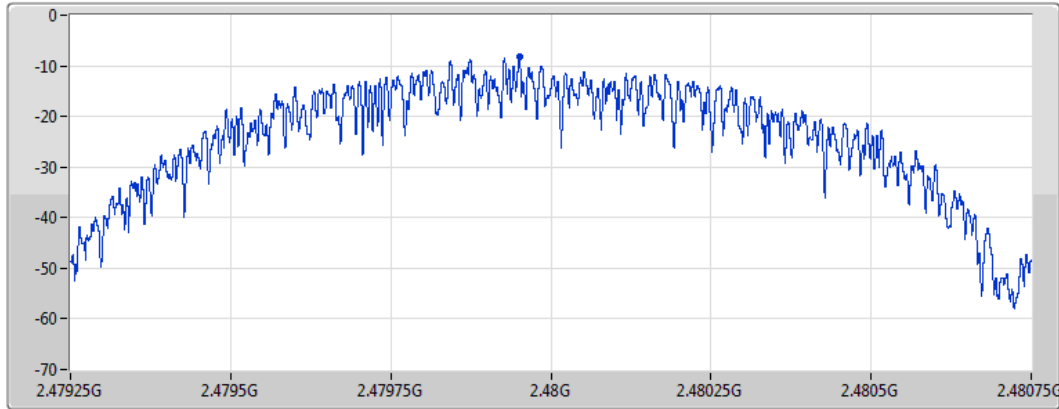
Span
1.5MHz


RBW
3kHz

VBW
10kHz

Sweep Time
632.18121us

Detector Type
Peak



Port 1 

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.14	-8.14	-8.14

BT-LE(2Mbps)

PSD

2402MHz

17/08/2021

CF
2.402GHz

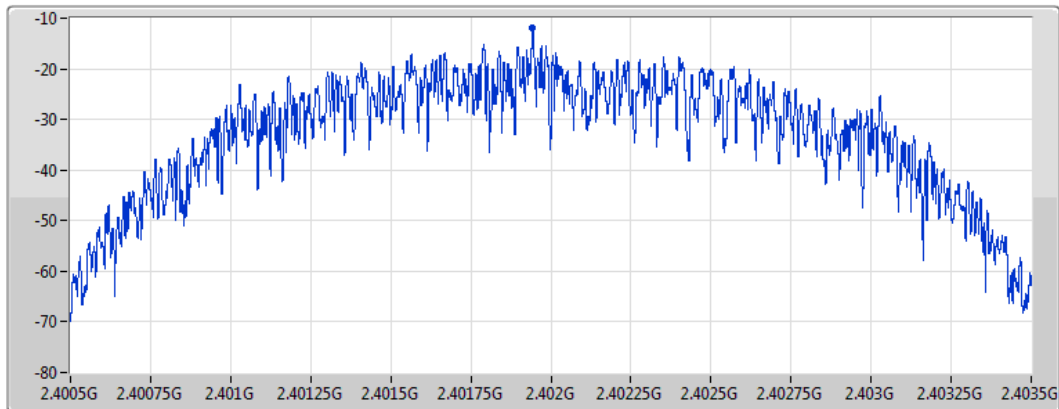
Span
3MHz


RBW
3kHz

VBW
10kHz

Sweep Time
632.01845us

Detector Type
Peak



Port 1 

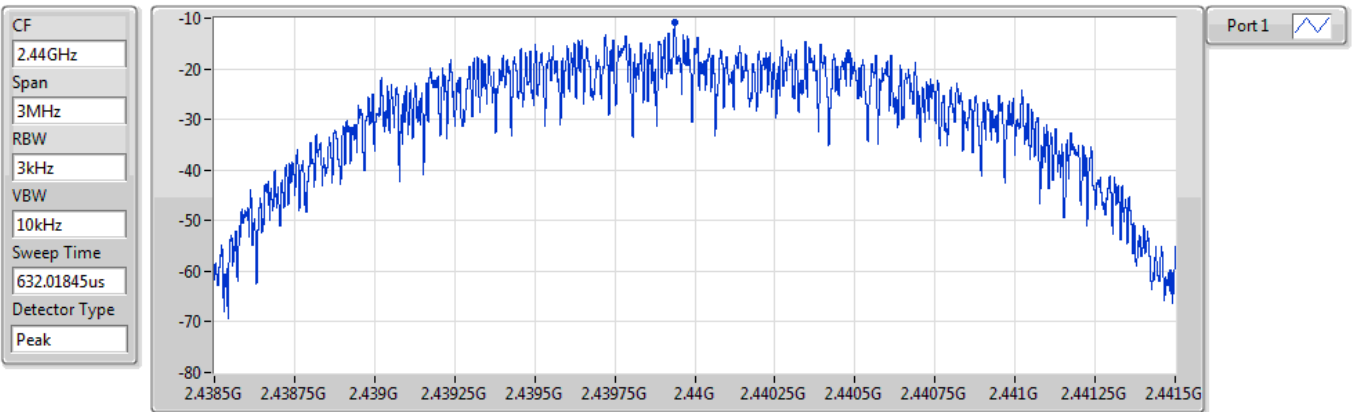
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-11.96	-11.96	-11.96

BT-LE(2Mbps)

PSD

2440MHz

17/08/2021



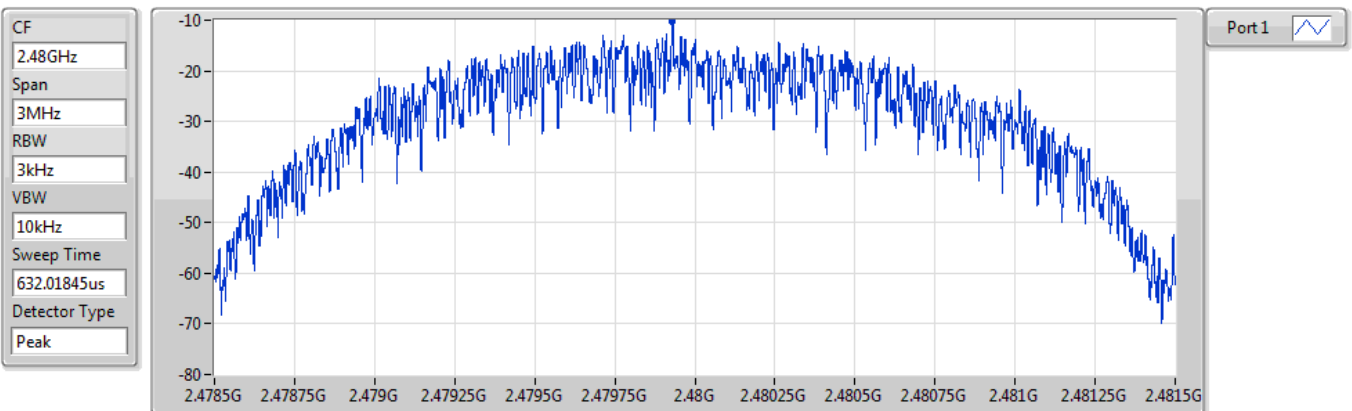
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-10.85	-10.85	-10.85

BT-LE(2Mbps)

PSD

2480MHz

17/08/2021



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-10.38	-10.38	-10.38



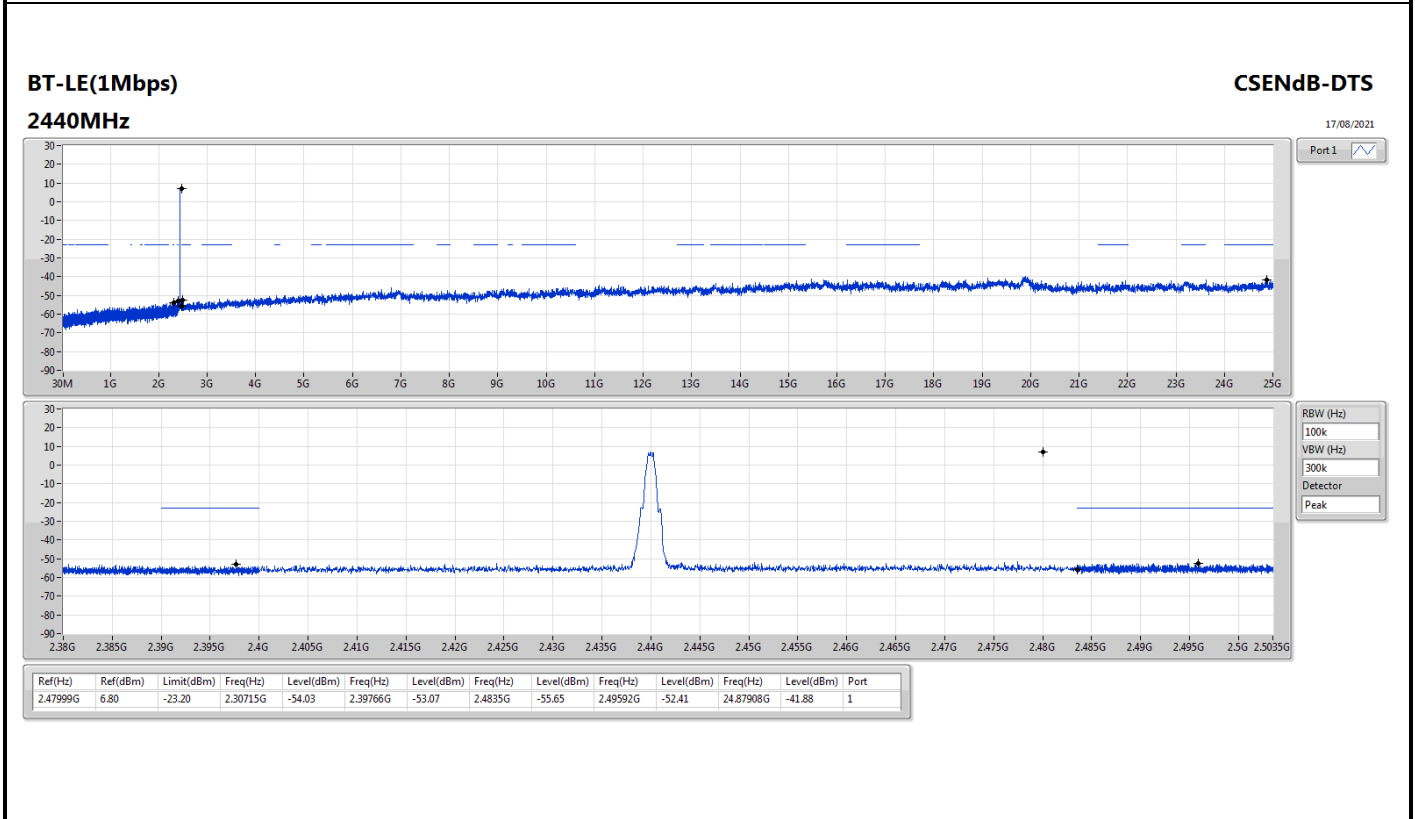
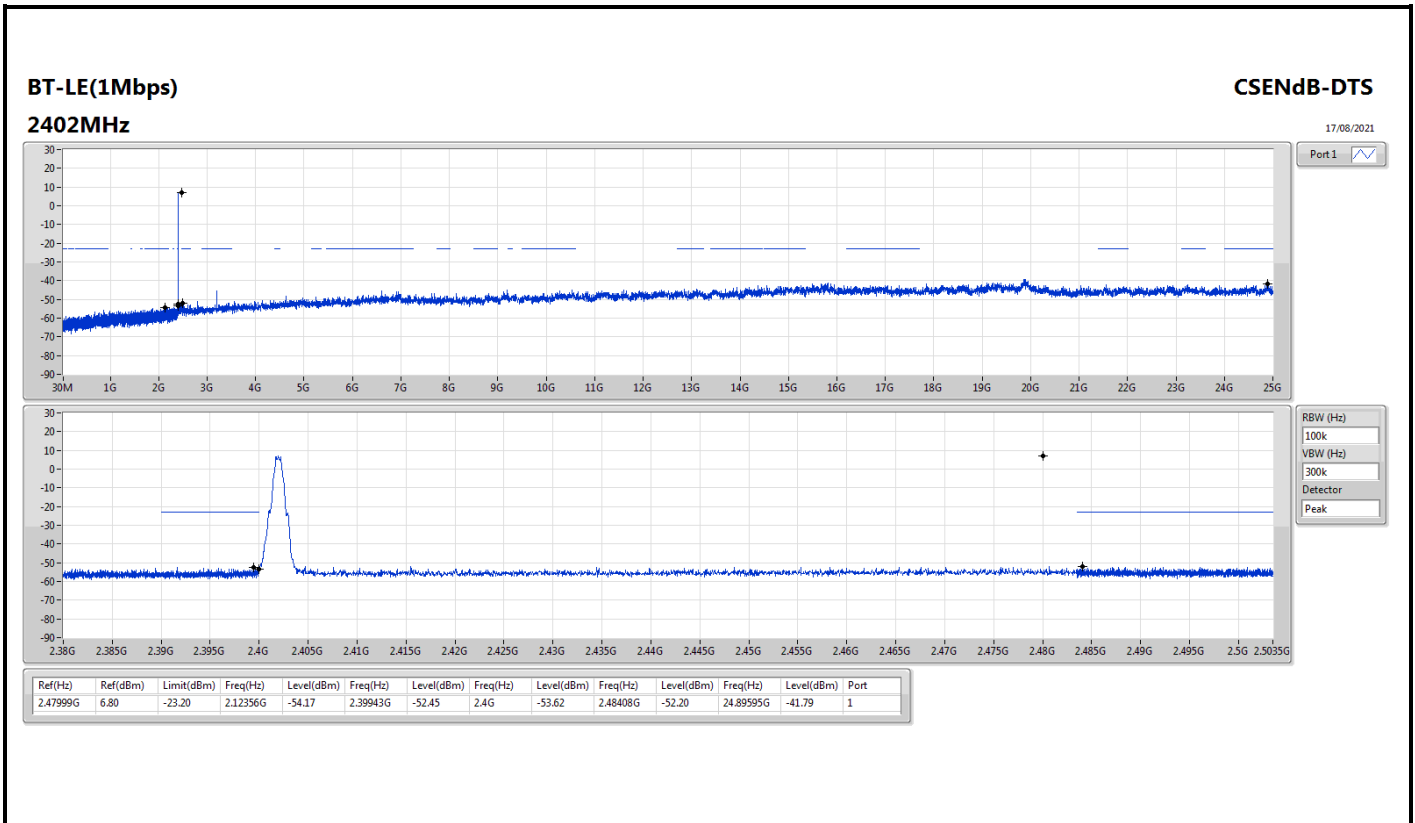
Summary

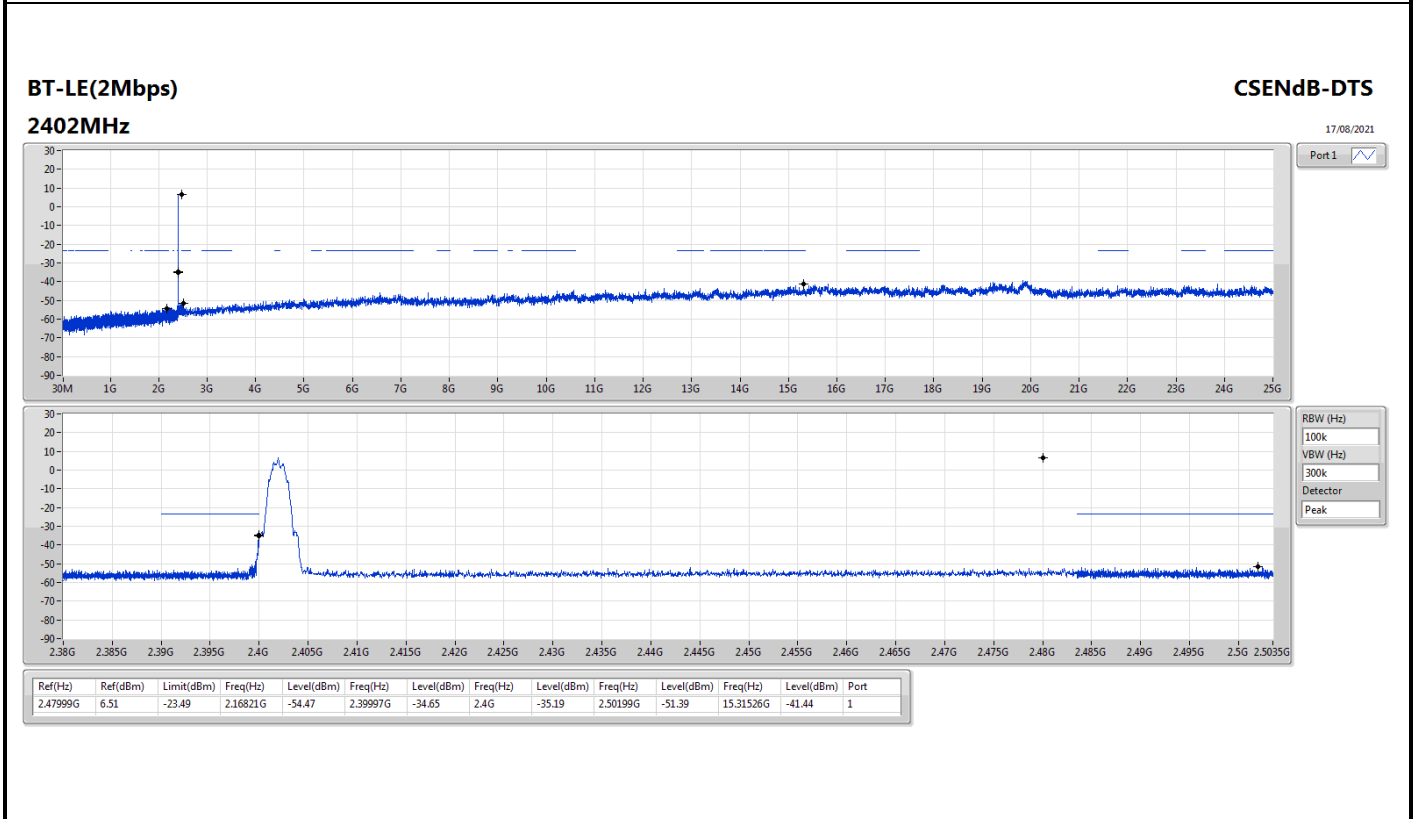
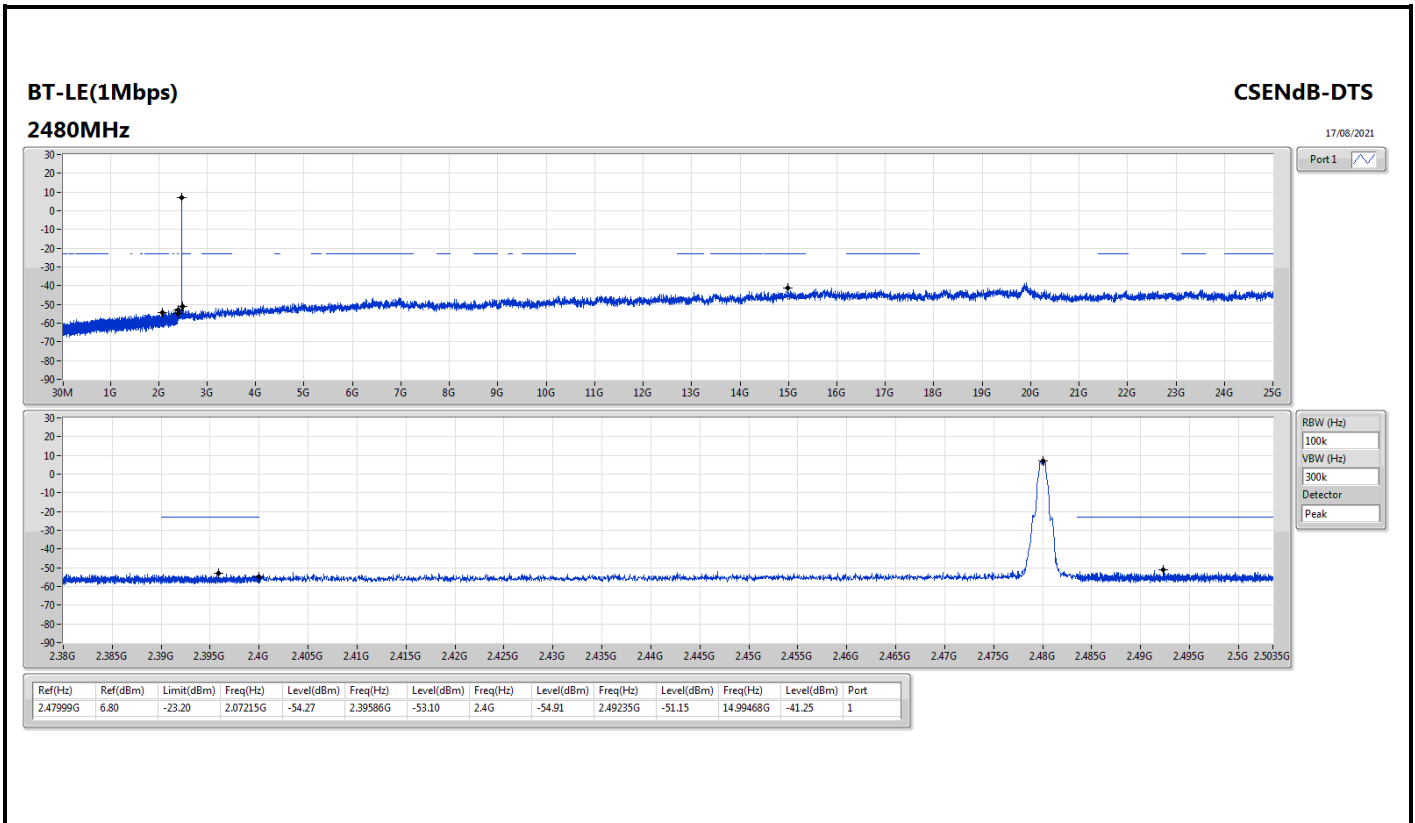
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	2.47999G	6.80	-23.20	2.07215G	-54.27	2.39586G	-53.10	2.4G	-54.91	2.49235G	-51.15	14.99468G	-41.25	1
BT-LE(2Mbps)	Pass	2.47999G	6.51	-23.49	2.16821G	-54.47	2.39997G	-34.65	2.4G	-35.19	2.50199G	-51.39	15.31526G	-41.44	1

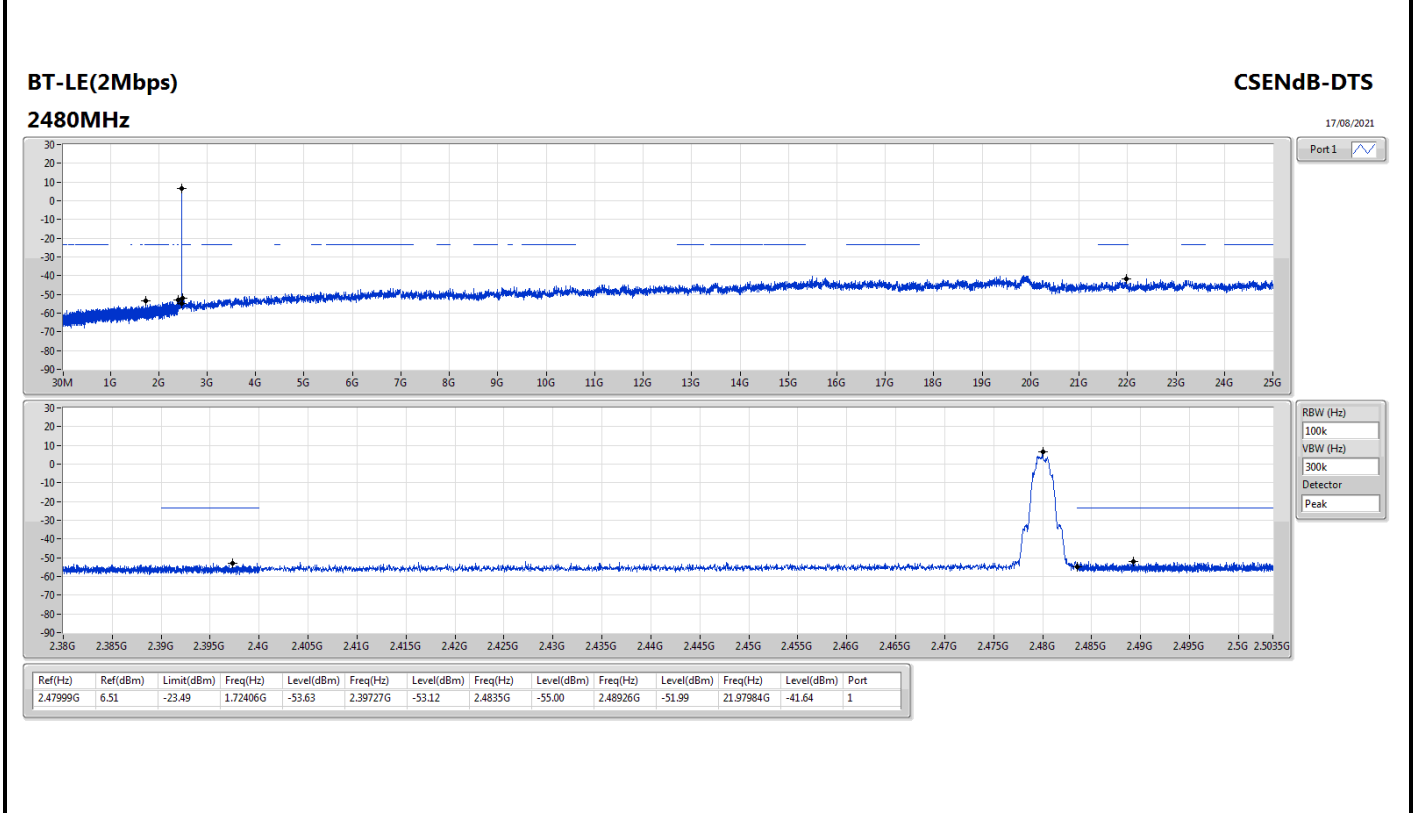
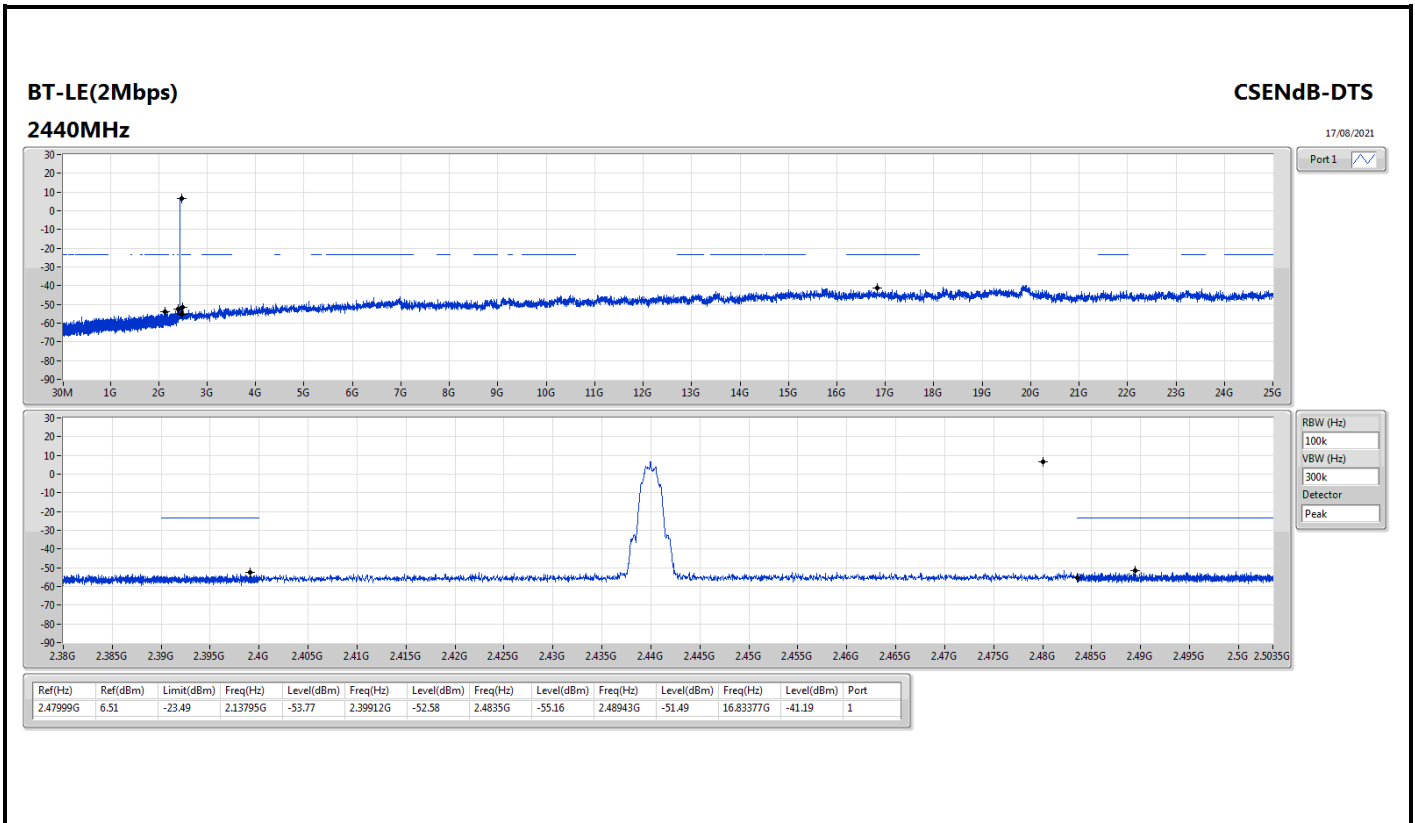


Result

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	2.47999G	6.80	-23.20	2.12356G	-54.17	2.39943G	-52.45	2.4G	-53.62	2.48408G	-52.20	24.89595G	-41.79	1
2440MHz	Pass	2.47999G	6.80	-23.20	2.30715G	-54.03	2.39766G	-53.07	2.4835G	-55.65	2.49592G	-52.41	24.87908G	-41.88	1
2480MHz	Pass	2.47999G	6.80	-23.20	2.07215G	-54.27	2.39586G	-53.10	2.4G	-54.91	2.49235G	-51.15	14.99468G	-41.25	1
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.47999G	6.51	-23.49	2.16821G	-54.47	2.39997G	-34.65	2.4G	-35.19	2.50199G	-51.39	15.31526G	-41.44	1
2440MHz	Pass	2.47999G	6.51	-23.49	2.13795G	-53.77	2.39912G	-52.58	2.4835G	-55.16	2.48943G	-51.49	16.83377G	-41.19	1
2480MHz	Pass	2.47999G	6.51	-23.49	1.72406G	-53.63	2.39727G	-53.12	2.4835G	-55.00	2.48926G	-51.99	21.97984G	-41.64	1









Summary

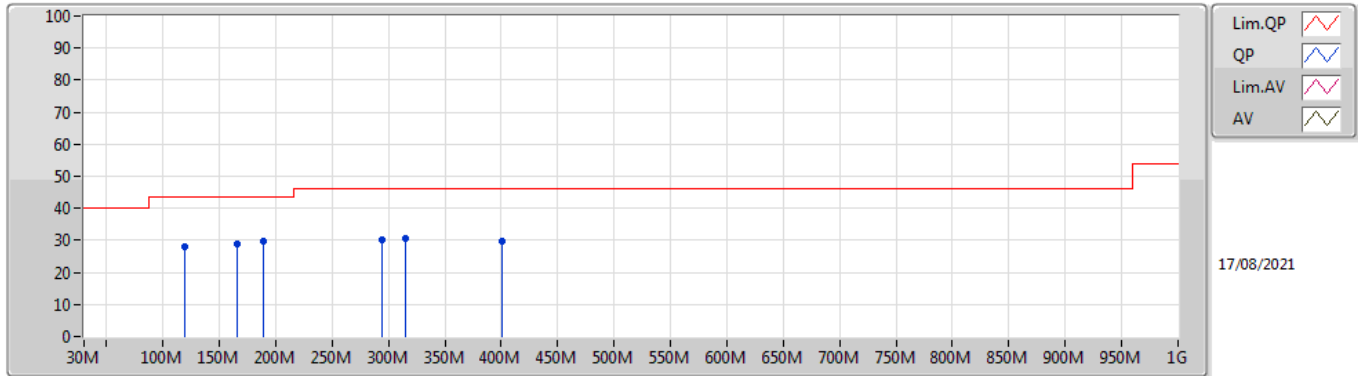
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
BT-LE(2Mbps)	Pass	PK	192.96M	31.21	43.50	-12.29	3	Horizontal	0	1.00	-



Result

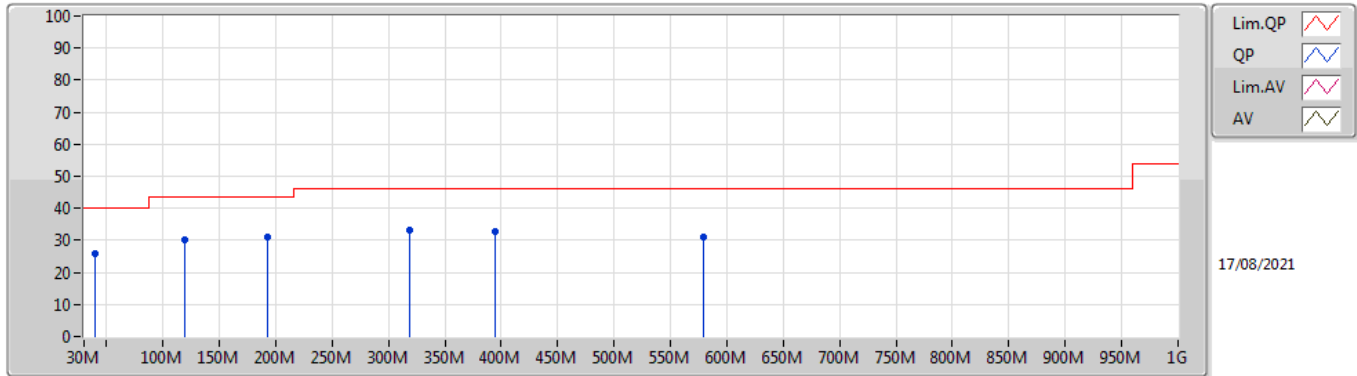
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	PK	119.24M	28.04	43.50	-15.46	3	Vertical	360	1.00	-
2440MHz	Pass	PK	165.8M	29.08	43.50	-14.42	3	Vertical	360	1.00	-
2440MHz	Pass	PK	189.08M	29.59	43.50	-13.91	3	Vertical	360	1.00	-
2440MHz	Pass	PK	293.84M	30.17	46.00	-15.83	3	Vertical	360	1.00	-
2440MHz	Pass	PK	315.18M	30.39	46.00	-15.61	3	Vertical	360	1.00	-
2440MHz	Pass	PK	400.54M	29.82	46.00	-16.18	3	Vertical	360	1.00	-
2440MHz	Pass	PK	39.7M	25.90	40.00	-14.10	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	119.24M	30.03	43.50	-13.47	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	192.96M	31.21	43.50	-12.29	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	319.06M	33.21	46.00	-12.79	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	394.72M	32.67	46.00	-13.33	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	579.02M	31.07	46.00	-14.93	3	Horizontal	0	1.00	-

BT-LE(2Mbps)
2440MHz_test fixture



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	119.24M	28.04	43.50	-15.46	-8.08	3	Vertical	360	1.00	-	36.12	17.41	1.88	27.37
PK	165.8M	29.08	43.50	-14.42	-10.10	3	Vertical	360	1.00	-	39.18	14.92	2.16	27.18
PK	189.08M	29.59	43.50	-13.91	-10.59	3	Vertical	360	1.00	-	40.18	14.19	2.32	27.10
PK	293.84M	30.17	46.00	-15.83	-5.61	3	Vertical	360	1.00	-	35.78	18.28	2.89	26.78
PK	315.18M	30.39	46.00	-15.61	-5.04	3	Vertical	360	1.00	-	35.43	18.78	3.02	26.84
PK	400.54M	29.82	46.00	-16.18	-2.74	3	Vertical	360	1.00	-	32.56	21.08	3.45	27.27

BT-LE(2Mbps)
2440MHz_test fixture



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	39.7M	25.90	40.00	-14.10	-8.68	3	Horizontal	0	1.00	-	34.58	17.89	1.04	27.61
PK	119.24M	30.03	43.50	-13.47	-8.08	3	Horizontal	0	1.00	-	38.11	17.41	1.88	27.37
PK	192.96M	31.21	43.50	-12.29	-10.47	3	Horizontal	0	1.00	-	41.68	14.26	2.35	27.08
PK	319.06M	33.21	46.00	-12.79	-5.00	3	Horizontal	0	1.00	-	38.21	18.81	3.05	26.86
PK	394.72M	32.67	46.00	-13.33	-3.02	3	Horizontal	0	1.00	-	35.69	20.78	3.43	27.23
PK	579.02M	31.07	46.00	-14.93	0.24	3	Horizontal	0	1.00	-	30.83	24.06	4.26	28.08



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	2.4836G	41.16	54.00	-12.84	3	Vertical	316	2.20	-
BT-LE(2Mbps)	Pass	AV	2.4835G	43.11	54.00	-10.89	3	Vertical	317	1.14	-



Result

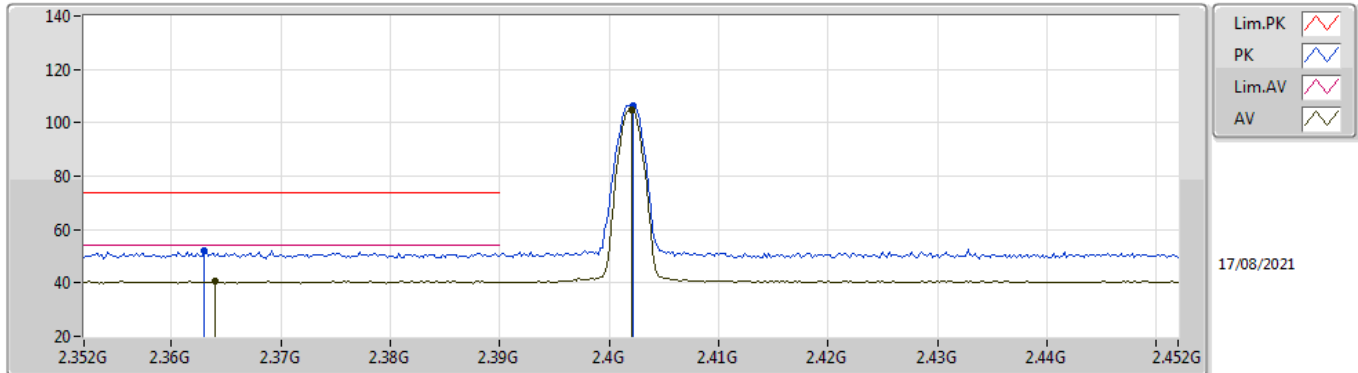
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.364G	40.76	54.00	-13.24	3	Vertical	328	1.50	-
2402MHz	Pass	AV	2.402G	105.07	Inf	-Inf	3	Vertical	328	1.50	-
2402MHz	Pass	PK	2.363G	51.87	74.00	-22.13	3	Vertical	328	1.50	-
2402MHz	Pass	PK	2.4022G	106.44	Inf	-Inf	3	Vertical	328	1.50	-
2402MHz	Pass	AV	2.381G	40.65	54.00	-13.35	3	Horizontal	320	2.60	-
2402MHz	Pass	AV	2.402G	99.88	Inf	-Inf	3	Horizontal	320	2.60	-
2402MHz	Pass	PK	2.38G	52.06	74.00	-21.94	3	Horizontal	320	2.60	-
2402MHz	Pass	PK	2.4022G	101.25	Inf	-Inf	3	Horizontal	320	2.60	-
2402MHz	Pass	AV	4.80588G	35.84	54.00	-18.16	3	Vertical	360	1.86	-
2402MHz	Pass	PK	4.80625G	47.34	74.00	-26.66	3	Vertical	360	1.86	-
2402MHz	Pass	AV	4.80311G	35.61	54.00	-18.39	3	Horizontal	178	1.50	-
2402MHz	Pass	PK	4.80539G	46.95	74.00	-27.05	3	Horizontal	178	1.50	-
2440MHz	Pass	AV	2.37G	40.49	54.00	-13.51	3	Vertical	327	1.66	-
2440MHz	Pass	AV	2.44G	103.22	Inf	-Inf	3	Vertical	327	1.66	-
2440MHz	Pass	AV	2.4932G	40.38	54.00	-13.62	3	Vertical	327	1.66	-
2440MHz	Pass	PK	2.352G	51.35	74.00	-22.65	3	Vertical	327	1.66	-
2440MHz	Pass	PK	2.44G	104.59	Inf	-Inf	3	Vertical	327	1.66	-
2440MHz	Pass	PK	2.4968G	50.82	74.00	-23.18	3	Vertical	327	1.66	-
2440MHz	Pass	AV	2.3444G	40.48	54.00	-13.52	3	Horizontal	302	1.50	-
2440MHz	Pass	AV	2.44G	94.66	Inf	-Inf	3	Horizontal	302	1.50	-
2440MHz	Pass	AV	2.4964G	40.62	54.00	-13.38	3	Horizontal	302	1.50	-
2440MHz	Pass	PK	2.358G	51.72	74.00	-22.28	3	Horizontal	302	1.50	-
2440MHz	Pass	PK	2.44G	96.14	Inf	-Inf	3	Horizontal	302	1.50	-
2440MHz	Pass	PK	2.496G	51.15	74.00	-22.85	3	Horizontal	302	1.50	-
2440MHz	Pass	AV	4.88115G	35.62	54.00	-18.38	3	Vertical	331	3.00	-
2440MHz	Pass	PK	4.87895G	47.20	74.00	-26.80	3	Vertical	331	3.00	-
2440MHz	Pass	AV	4.88198G	35.62	54.00	-18.38	3	Horizontal	284	1.50	-
2440MHz	Pass	PK	4.87874G	47.43	74.00	-26.57	3	Horizontal	284	1.50	-
2480MHz	Pass	AV	2.48G	103.90	Inf	-Inf	3	Vertical	316	2.20	-
2480MHz	Pass	AV	2.4836G	41.16	54.00	-12.84	3	Vertical	316	2.20	-
2480MHz	Pass	PK	2.48G	105.24	Inf	-Inf	3	Vertical	316	2.20	-
2480MHz	Pass	PK	2.4862G	51.33	74.00	-22.67	3	Vertical	316	2.20	-
2480MHz	Pass	AV	2.48G	97.95	Inf	-Inf	3	Horizontal	47	1.33	-
2480MHz	Pass	AV	2.4964G	40.70	54.00	-13.30	3	Horizontal	47	1.33	-
2480MHz	Pass	PK	2.4798G	99.25	Inf	-Inf	3	Horizontal	47	1.33	-
2480MHz	Pass	PK	2.4854G	51.19	74.00	-22.81	3	Horizontal	47	1.33	-
2480MHz	Pass	AV	4.96138G	36.33	54.00	-17.67	3	Vertical	69	1.22	-
2480MHz	Pass	PK	4.96012G	47.20	74.00	-26.80	3	Vertical	69	1.22	-
2480MHz	Pass	AV	4.95918G	36.06	54.00	-17.94	3	Horizontal	348	1.50	-
2480MHz	Pass	PK	4.96062G	47.80	74.00	-26.20	3	Horizontal	348	1.50	-
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3898G	42.22	54.00	-11.78	3	Vertical	328	1.50	-
2402MHz	Pass	AV	2.4018G	103.61	Inf	-Inf	3	Vertical	328	1.50	-
2402MHz	Pass	PK	2.3882G	51.70	74.00	-22.30	3	Vertical	328	1.50	-
2402MHz	Pass	PK	2.4014G	106.40	Inf	-Inf	3	Vertical	328	1.50	-
2402MHz	Pass	AV	2.3714G	42.60	54.00	-11.40	3	Horizontal	321	2.60	-
2402MHz	Pass	AV	2.402G	98.55	Inf	-Inf	3	Horizontal	321	2.60	-
2402MHz	Pass	PK	2.359G	52.28	74.00	-21.72	3	Horizontal	321	2.60	-
2402MHz	Pass	PK	2.4014G	101.26	Inf	-Inf	3	Horizontal	321	2.60	-
2402MHz	Pass	AV	4.80262G	36.90	54.00	-17.10	3	Vertical	92	2.05	-
2402MHz	Pass	PK	4.80384G	47.42	74.00	-26.58	3	Vertical	92	2.05	-
2402MHz	Pass	AV	4.80232G	37.31	54.00	-16.69	3	Horizontal	323	1.50	-
2402MHz	Pass	PK	4.80522G	46.81	74.00	-27.19	3	Horizontal	323	1.50	-
2440MHz	Pass	AV	2.3572G	42.00	54.00	-12.00	3	Vertical	328	1.35	-
2440MHz	Pass	AV	2.44G	102.47	Inf	-Inf	3	Vertical	328	1.35	-
2440MHz	Pass	AV	2.4928G	41.71	54.00	-12.29	3	Vertical	328	1.35	-
2440MHz	Pass	PK	2.3848G	52.22	74.00	-21.78	3	Vertical	328	1.35	-
2440MHz	Pass	PK	2.4396G	105.23	Inf	-Inf	3	Vertical	328	1.35	-
2440MHz	Pass	PK	2.4908G	50.99	74.00	-23.01	3	Vertical	328	1.35	-
2440MHz	Pass	AV	2.3576G	42.23	54.00	-11.77	3	Horizontal	37	2.32	-



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2440MHz	Pass	AV	2.44G	96.32	Inf	-Inf	3	Horizontal	37	2.32	-
2440MHz	Pass	AV	2.4964G	42.12	54.00	-11.88	3	Horizontal	37	2.32	-
2440MHz	Pass	PK	2.364G	51.94	74.00	-22.06	3	Horizontal	37	2.32	-
2440MHz	Pass	PK	2.4404G	99.01	Inf	-Inf	3	Horizontal	37	2.32	-
2440MHz	Pass	PK	2.4988G	51.03	74.00	-22.97	3	Horizontal	37	2.32	-
2440MHz	Pass	AV	4.87794G	37.32	54.00	-16.68	3	Vertical	67	3.00	-
2440MHz	Pass	PK	4.88148G	47.24	74.00	-26.76	3	Vertical	67	3.00	-
2440MHz	Pass	AV	4.87789G	37.00	54.00	-17.00	3	Horizontal	356	1.50	-
2440MHz	Pass	PK	4.8814G	47.27	74.00	-26.73	3	Horizontal	356	1.50	-
2480MHz	Pass	AV	2.48G	102.64	Inf	-Inf	3	Vertical	317	1.14	-
2480MHz	Pass	AV	2.4835G	43.11	54.00	-10.89	3	Vertical	317	1.14	-
2480MHz	Pass	PK	2.4794G	105.45	Inf	-Inf	3	Vertical	317	1.14	-
2480MHz	Pass	PK	2.4886G	51.57	74.00	-22.43	3	Vertical	317	1.14	-
2480MHz	Pass	AV	2.48G	98.13	Inf	-Inf	3	Horizontal	55	2.88	-
2480MHz	Pass	AV	2.4982G	42.20	54.00	-11.80	3	Horizontal	55	2.88	-
2480MHz	Pass	PK	2.4794G	100.93	Inf	-Inf	3	Horizontal	55	2.88	-
2480MHz	Pass	PK	2.4858G	52.04	74.00	-21.96	3	Horizontal	55	2.88	-
2480MHz	Pass	AV	4.96173G	37.97	54.00	-16.03	3	Vertical	340	1.50	-
2480MHz	Pass	PK	4.96082G	47.08	74.00	-26.92	3	Vertical	340	1.50	-
2480MHz	Pass	AV	4.96067G	37.53	54.00	-16.47	3	Horizontal	98	1.48	-
2480MHz	Pass	PK	4.9613G	48.01	74.00	-25.99	3	Horizontal	98	1.48	-

BT-LE(1Mbps)

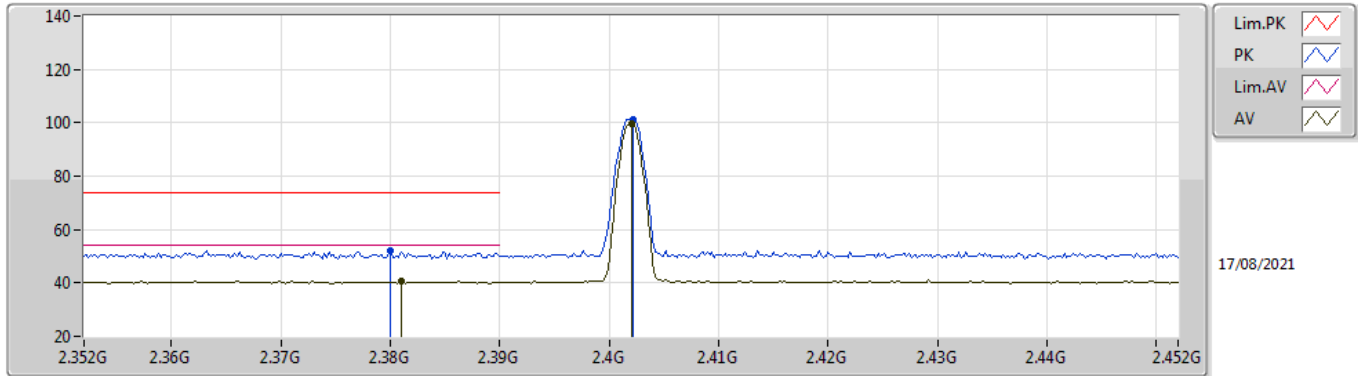
2402MHz_TX



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	2.364G	40.76	54.00	-13.24	2.05	3	Vertical	328	1.50	-	38.71	27.74	4.34	30.03
AV	2.402G	105.07	Inf	-Inf	1.97	3	Vertical	328	1.50	-	103.10	27.60	4.38	30.01
PK	2.363G	51.87	74.00	-22.13	2.06	3	Vertical	328	1.50	-	49.81	27.75	4.34	30.03
PK	2.402G	106.44	Inf	-Inf	1.97	3	Vertical	328	1.50	-	104.47	27.60	4.38	30.01

BT-LE(1Mbps)

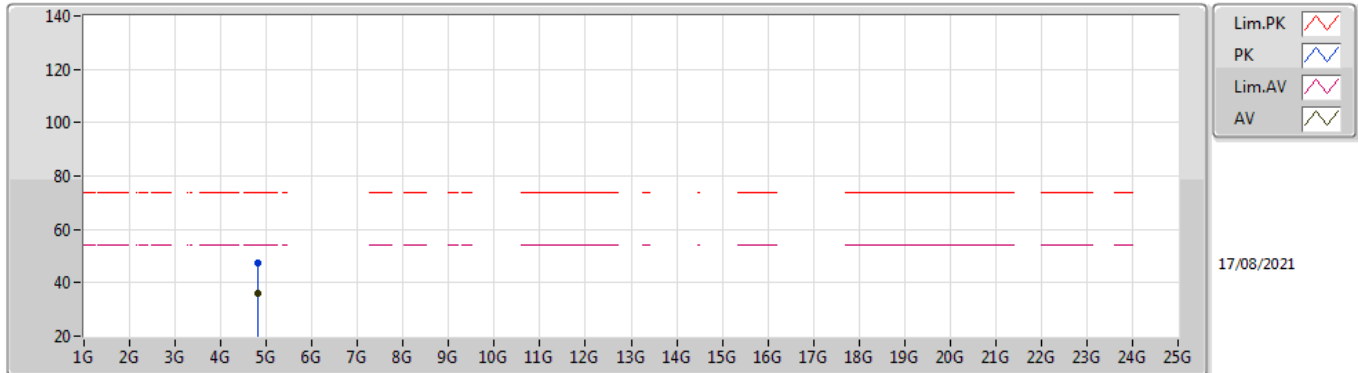
2402MHz_TX



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	2.381G	40.65	54.00	-13.35	2.02	3	Horizontal	320	2.60	-	38.63	27.68	4.36	30.02
AV	2.402G	99.88	Inf	-Inf	1.97	3	Horizontal	320	2.60	-	97.91	27.60	4.38	30.01
PK	2.38G	52.06	74.00	-21.94	2.02	3	Horizontal	320	2.60	-	50.04	27.68	4.36	30.02
PK	2.402G	101.25	Inf	-Inf	1.97	3	Horizontal	320	2.60	-	99.28	27.60	4.38	30.01

BT-LE(1Mbps)

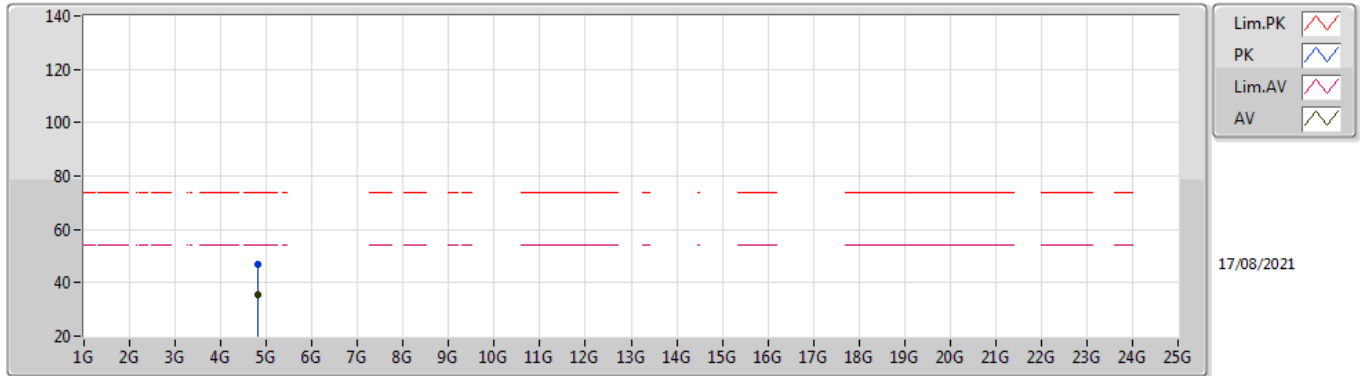
2402MHz_TX



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	4.80588G	35.84	54.00	-18.16	8.14	3	Vertical	360	1.86	-	27.70	31.11	6.26	29.23
PK	4.80625G	47.34	74.00	-26.66	8.14	3	Vertical	360	1.86	-	39.20	31.11	6.26	29.23

BT-LE(1Mbps)

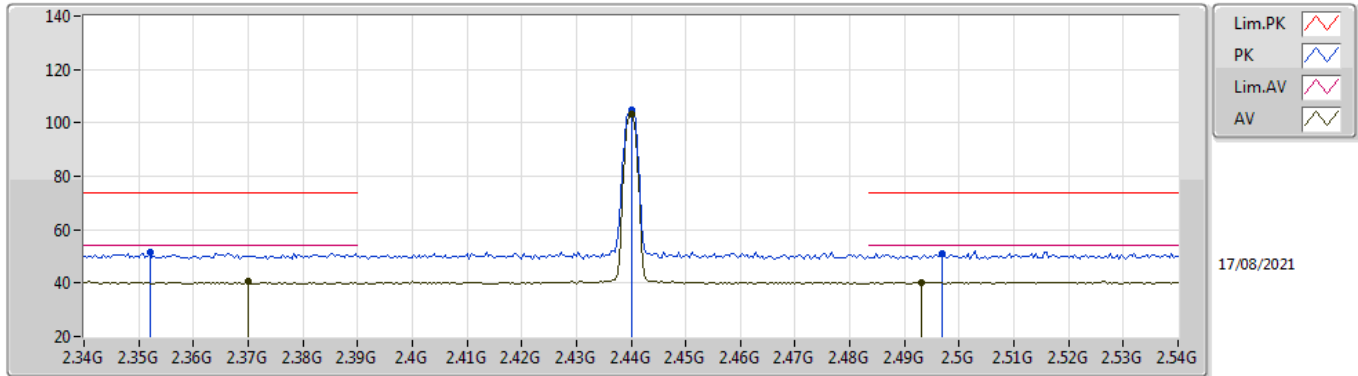
2402MHz_TX



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	4.80311G	35.61	54.00	-18.39	8.14	3	Horizontal	178	1.50	-	27.47	31.11	6.26	29.23
PK	4.80539G	46.95	74.00	-27.05	8.14	3	Horizontal	178	1.50	-	38.81	31.11	6.26	29.23

BT-LE(1Mbps)

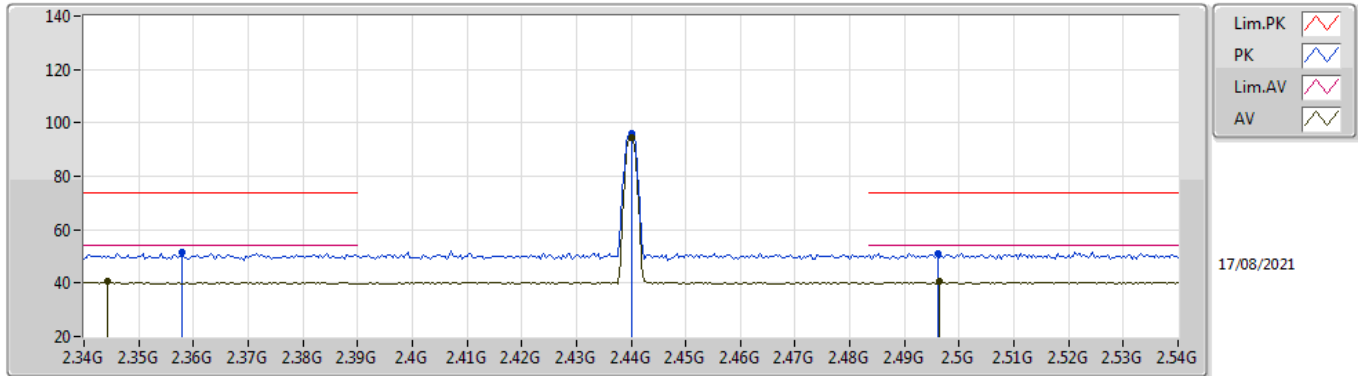
2440MHz_TX



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	2.37G	40.49	54.00	-13.51	2.04	3	Vertical	327	1.66	-	38.45	27.72	4.35	30.03
AV	2.44G	103.22	Inf	-Inf	2.05	3	Vertical	327	1.66	-	101.17	27.60	4.44	29.99
AV	2.4932G	40.38	54.00	-13.62	2.25	3	Vertical	327	1.66	-	38.13	27.69	4.52	29.96
PK	2.352G	51.35	74.00	-22.65	2.08	3	Vertical	327	1.66	-	49.27	27.79	4.33	30.04
PK	2.44G	104.59	Inf	-Inf	2.05	3	Vertical	327	1.66	-	102.54	27.60	4.44	29.99
PK	2.4968G	50.82	74.00	-23.18	2.25	3	Vertical	327	1.66	-	48.57	27.69	4.52	29.96

BT-LE(1Mbps)

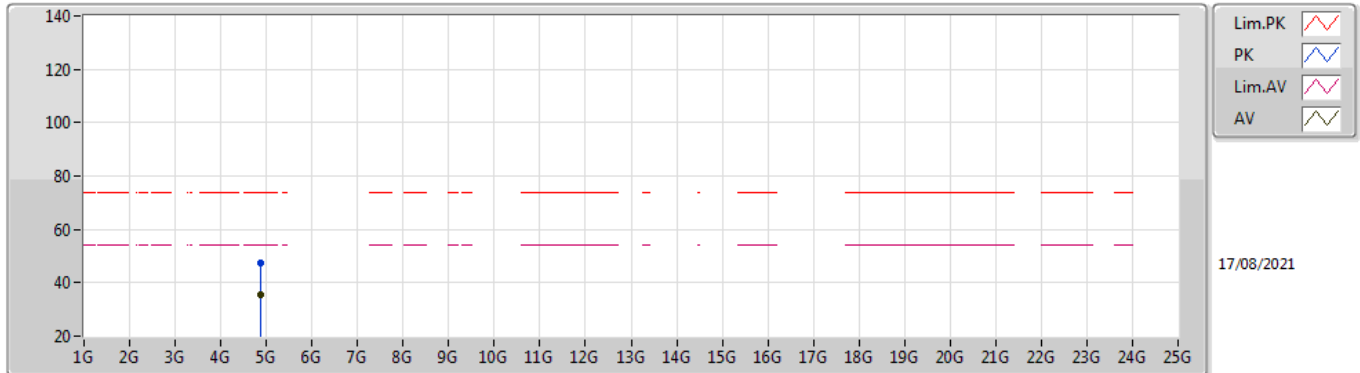
2440MHz_TX



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	2.3444G	40.48	54.00	-13.52	2.09	3	Horizontal	302	1.50	-	38.39	27.81	4.32	30.04
AV	2.44G	94.66	Inf	-Inf	2.05	3	Horizontal	302	1.50	-	92.61	27.60	4.44	29.99
AV	2.4964G	40.62	54.00	-13.38	2.25	3	Horizontal	302	1.50	-	38.37	27.69	4.52	29.96
PK	2.358G	51.72	74.00	-22.28	2.08	3	Horizontal	302	1.50	-	49.64	27.77	4.34	30.03
PK	2.44G	96.14	Inf	-Inf	2.05	3	Horizontal	302	1.50	-	94.09	27.60	4.44	29.99
PK	2.496G	51.15	74.00	-22.85	2.25	3	Horizontal	302	1.50	-	48.90	27.69	4.52	29.96

BT-LE(1Mbps)

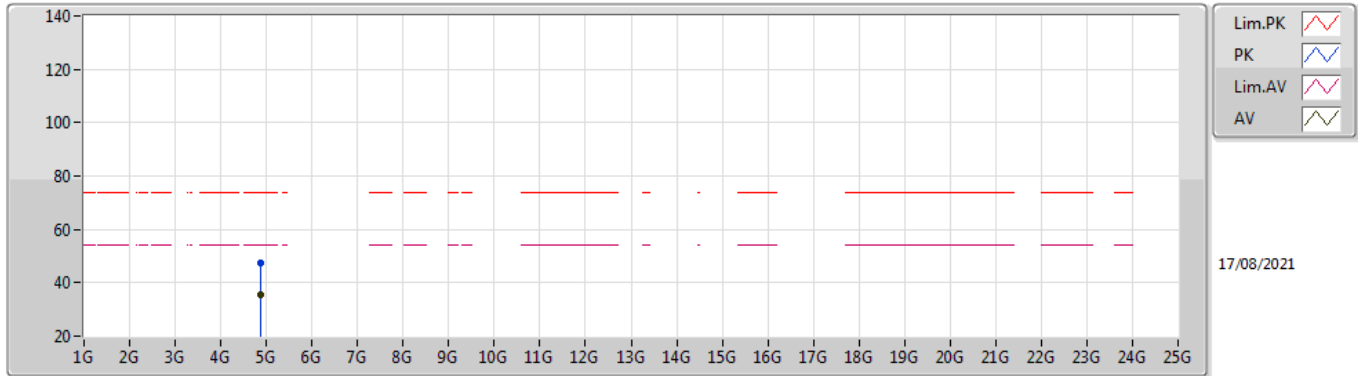
2440MHz_TX



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	4.88115G	35.62	54.00	-18.38	8.30	3	Vertical	331	3.00	-	27.32	31.20	6.31	29.21
PK	4.87895G	47.20	74.00	-26.80	8.30	3	Vertical	331	3.00	-	38.90	31.20	6.31	29.21

BT-LE(1Mbps)

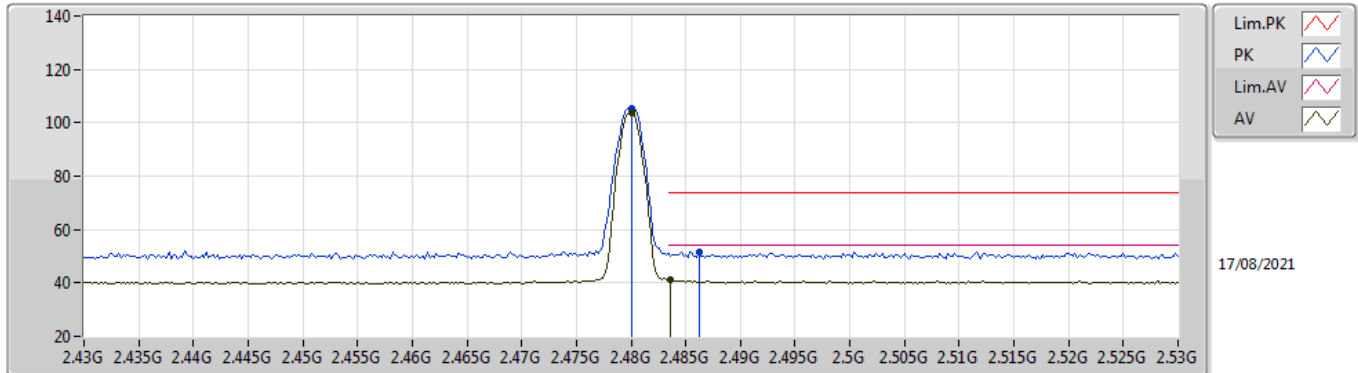
2440MHz_TX



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	4.88198G	35.62	54.00	-18.38	8.30	3	Horizontal	284	1.50	-	27.32	31.20	6.31	29.21
PK	4.87874G	47.43	74.00	-26.57	8.30	3	Horizontal	284	1.50	-	39.13	31.20	6.31	29.21

BT-LE(1Mbps)

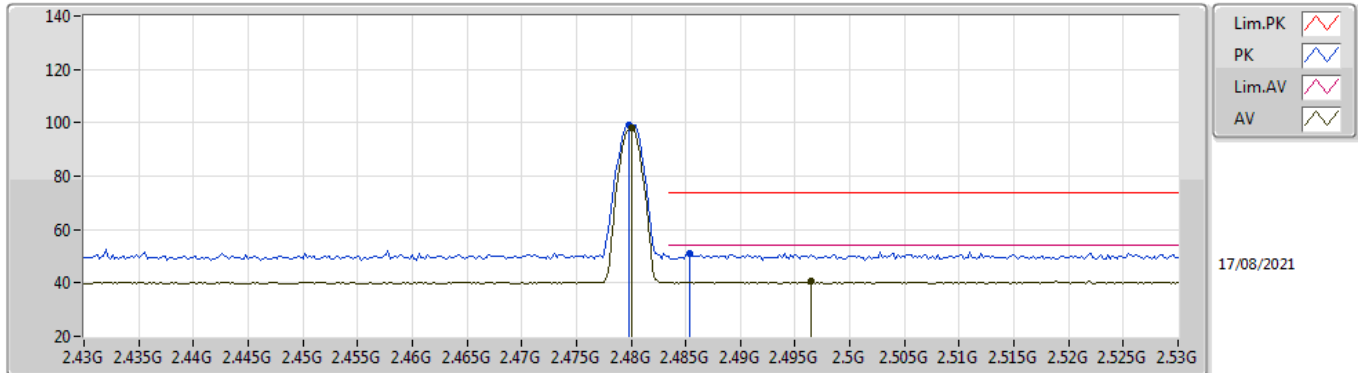
2480MHz_TX



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	103.90	Inf	-Inf	2.19	3	Vertical	316	2.20	-	101.71	27.66	4.50	29.97
AV	2.4836G	41.16	54.00	-12.84	2.20	3	Vertical	316	2.20	-	38.96	27.67	4.50	29.97
PK	2.48G	105.24	Inf	-Inf	2.19	3	Vertical	316	2.20	-	103.05	27.66	4.50	29.97
PK	2.4862G	51.33	74.00	-22.67	2.20	3	Vertical	316	2.20	-	49.13	27.67	4.50	29.97

BT-LE(1Mbps)

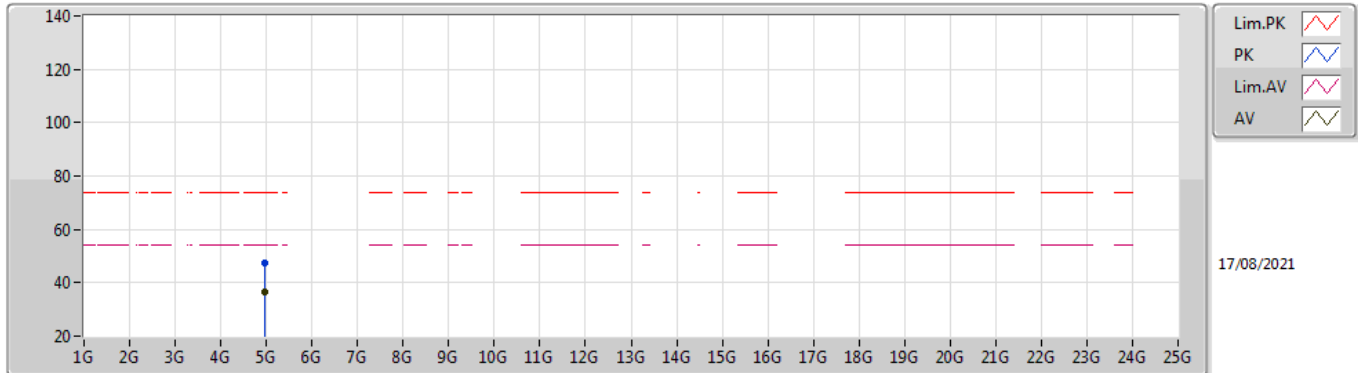
2480MHz_TX



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	97.95	Inf	-Inf	2.19	3	Horizontal	47	1.33	-	95.76	27.66	4.50	29.97
AV	2.4964G	40.70	54.00	-13.30	2.25	3	Horizontal	47	1.33	-	38.45	27.69	4.52	29.96
PK	2.4798G	99.25	Inf	-Inf	2.19	3	Horizontal	47	1.33	-	97.06	27.66	4.50	29.97
PK	2.4854G	51.19	74.00	-22.81	2.20	3	Horizontal	47	1.33	-	48.99	27.67	4.50	29.97

BT-LE(1Mbps)

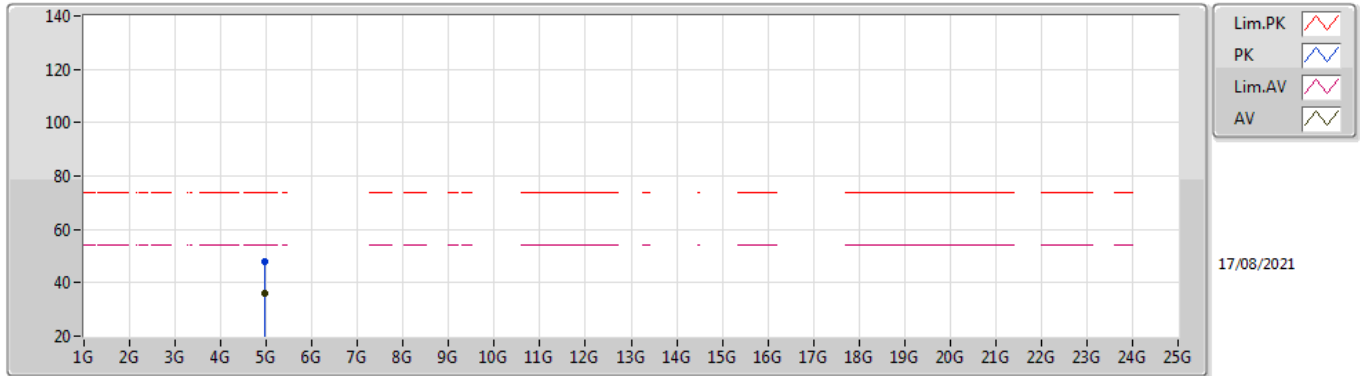
2480MHz_TX



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	4.96138G	36.33	54.00	-17.67	8.53	3	Vertical	69	1.22	-	27.80	31.35	6.36	29.18
PK	4.96012G	47.20	74.00	-26.80	8.52	3	Vertical	69	1.22	-	38.68	31.34	6.36	29.18

BT-LE(1Mbps)

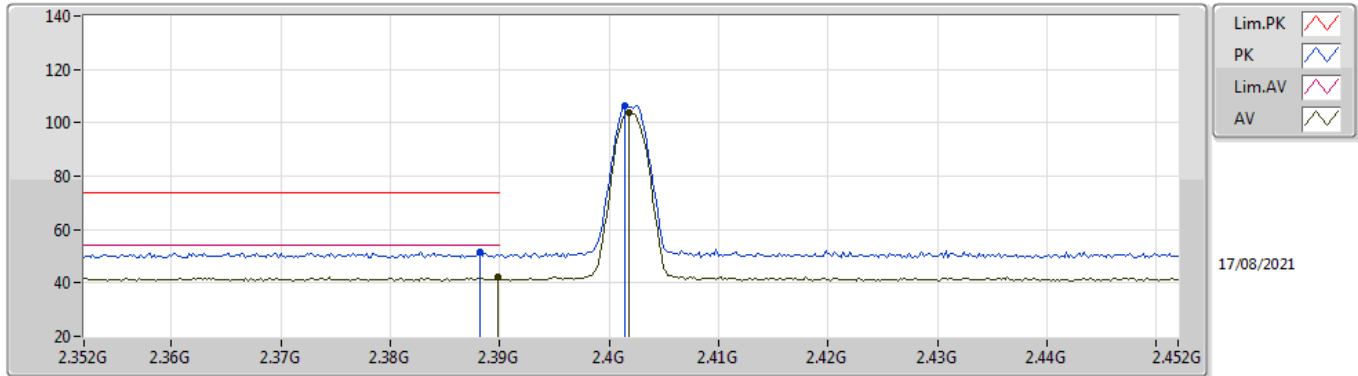
2480MHz_TX



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	4.95918G	36.06	54.00	-17.94	8.52	3	Horizontal	348	1.50	-	27.54	31.34	6.36	29.18
PK	4.96062G	47.80	74.00	-26.20	8.52	3	Horizontal	348	1.50	-	39.28	31.34	6.36	29.18

BT-LE(2Mbps)

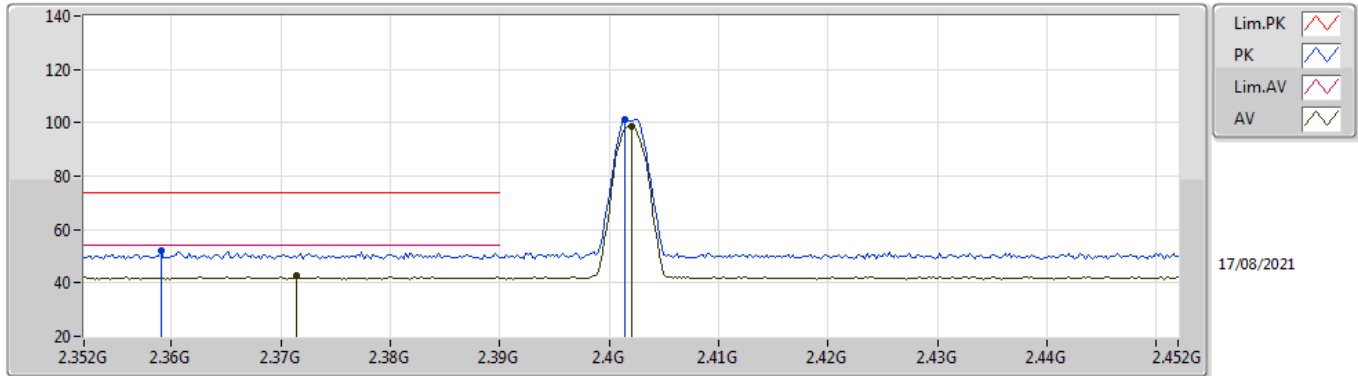
2402MHz_TX



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	2.3898G	42.22	54.00	-11.78	1.99	3	Vertical	328	1.50	-	40.23	27.64	4.37	30.02
AV	2.4018G	103.61	Inf	-Inf	1.97	3	Vertical	328	1.50	-	101.64	27.60	4.38	30.01
PK	2.3882G	51.70	74.00	-22.30	2.00	3	Vertical	328	1.50	-	49.70	27.65	4.37	30.02
PK	2.4014G	106.40	Inf	-Inf	1.97	3	Vertical	328	1.50	-	104.43	27.60	4.38	30.01

BT-LE(2Mbps)

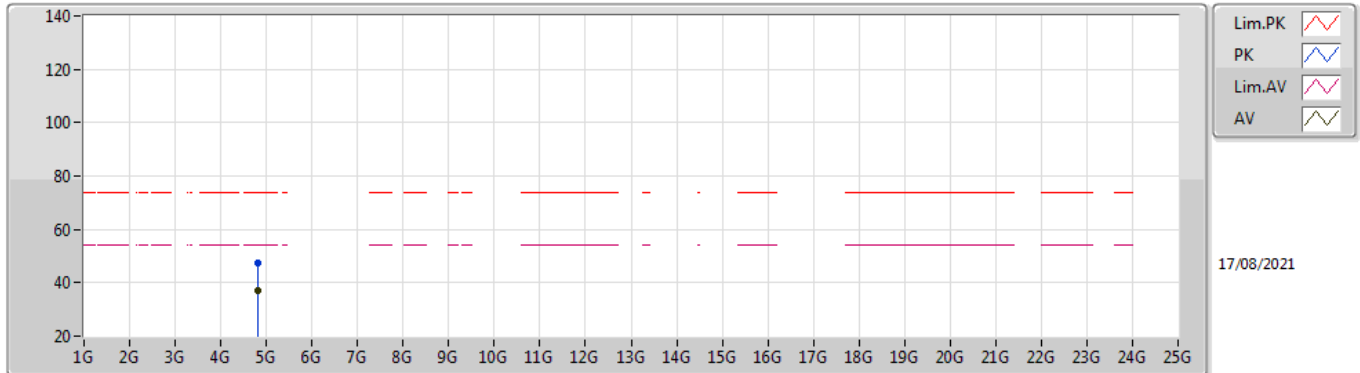
2402MHz_TX



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	2.3714G	42.60	54.00	-11.40	2.03	3	Horizontal	321	2.60	-	40.57	27.71	4.35	30.03
AV	2.402G	98.55	Inf	-Inf	1.97	3	Horizontal	321	2.60	-	96.58	27.60	4.38	30.01
PK	2.359G	52.28	74.00	-21.72	2.07	3	Horizontal	321	2.60	-	50.21	27.76	4.34	30.03
PK	2.4014G	101.26	Inf	-Inf	1.97	3	Horizontal	321	2.60	-	99.29	27.60	4.38	30.01

BT-LE(2Mbps)

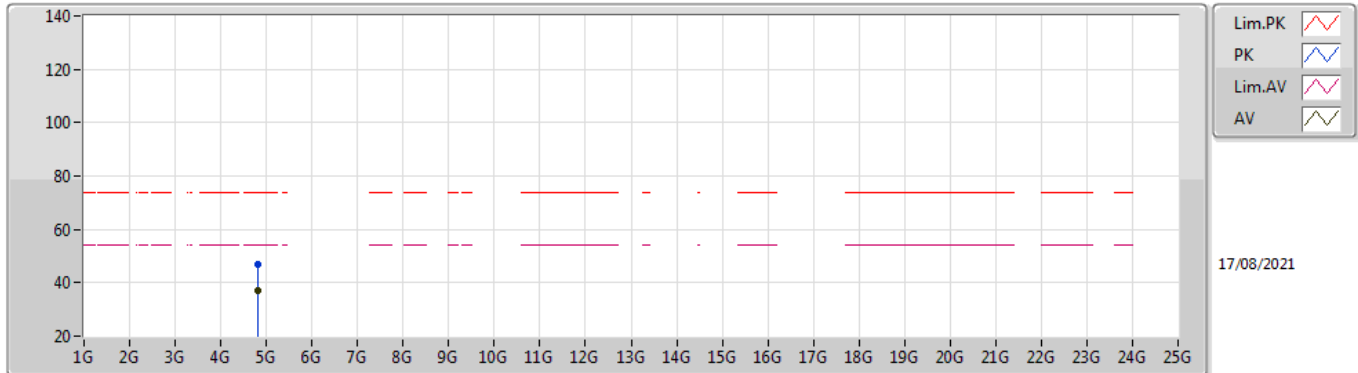
2402MHz_TX



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	4.80262G	36.90	54.00	-17.10	8.14	3	Vertical	92	2.05	-	28.76	31.11	6.26	29.23
PK	4.80384G	47.42	74.00	-26.58	8.14	3	Vertical	92	2.05	-	39.28	31.11	6.26	29.23

BT-LE(2Mbps)

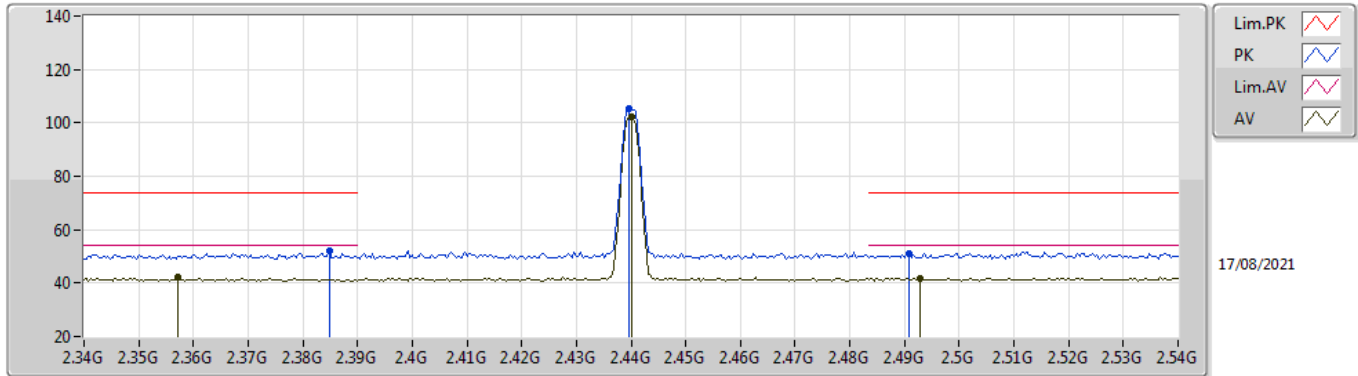
2402MHz_TX



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	4.80232G	37.31	54.00	-16.69	8.13	3	Horizontal	323	1.50	-	29.18	31.10	6.26	29.23
PK	4.80522G	46.81	74.00	-27.19	8.14	3	Horizontal	323	1.50	-	38.67	31.11	6.26	29.23

BT-LE(2Mbps)

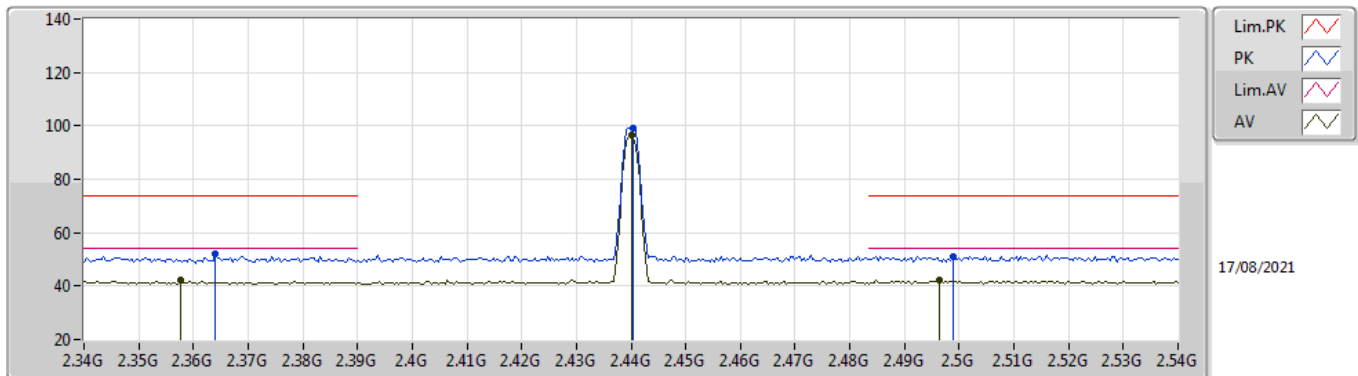
2440MHz_TX



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	2.3572G	42.00	54.00	-12.00	2.08	3	Vertical	328	1.35	-	39.92	27.77	4.34	30.03
AV	2.44G	102.47	Inf	-Inf	2.05	3	Vertical	328	1.35	-	100.42	27.60	4.44	29.99
AV	2.4928G	41.71	54.00	-12.29	2.24	3	Vertical	328	1.35	-	39.47	27.69	4.51	29.96
PK	2.3848G	52.22	74.00	-21.78	2.00	3	Vertical	328	1.35	-	50.22	27.66	4.36	30.02
PK	2.4396G	105.23	Inf	-Inf	2.05	3	Vertical	328	1.35	-	103.18	27.60	4.44	29.99
PK	2.4908G	50.99	74.00	-23.01	2.23	3	Vertical	328	1.35	-	48.76	27.68	4.51	29.96

BT-LE(2Mbps)

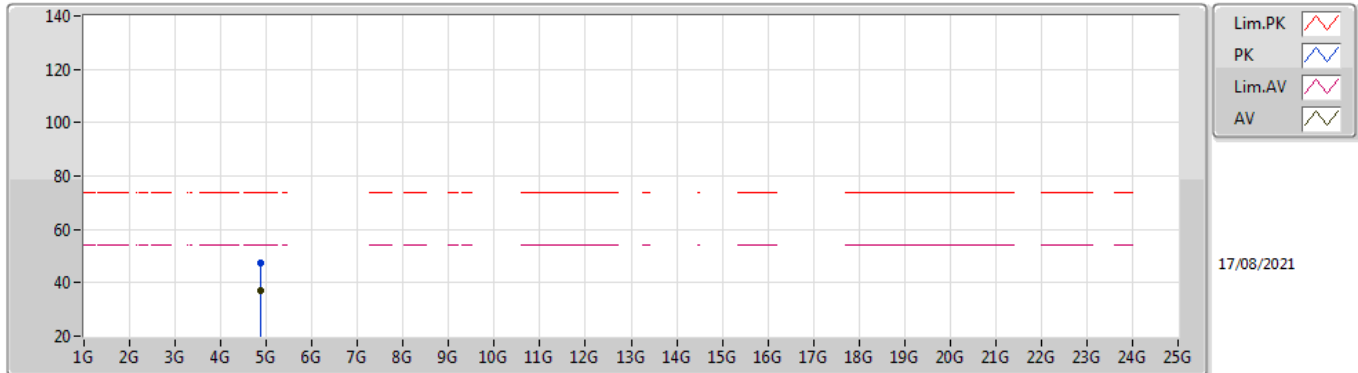
2440MHz_TX



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	2.3576G	42.23	54.00	-11.77	2.08	3	Horizontal	37	2.32	-	40.15	27.77	4.34	30.03
AV	2.44G	96.32	Inf	-Inf	2.05	3	Horizontal	37	2.32	-	94.27	27.60	4.44	29.99
AV	2.4964G	42.12	54.00	-11.88	2.25	3	Horizontal	37	2.32	-	39.87	27.69	4.52	29.96
PK	2.364G	51.94	74.00	-22.06	2.05	3	Horizontal	37	2.32	-	49.89	27.74	4.34	30.03
PK	2.4404G	99.01	Inf	-Inf	2.05	3	Horizontal	37	2.32	-	96.96	27.60	4.44	29.99
PK	2.4988G	51.03	74.00	-22.97	2.26	3	Horizontal	37	2.32	-	48.77	27.70	4.52	29.96

BT-LE(2Mbps)

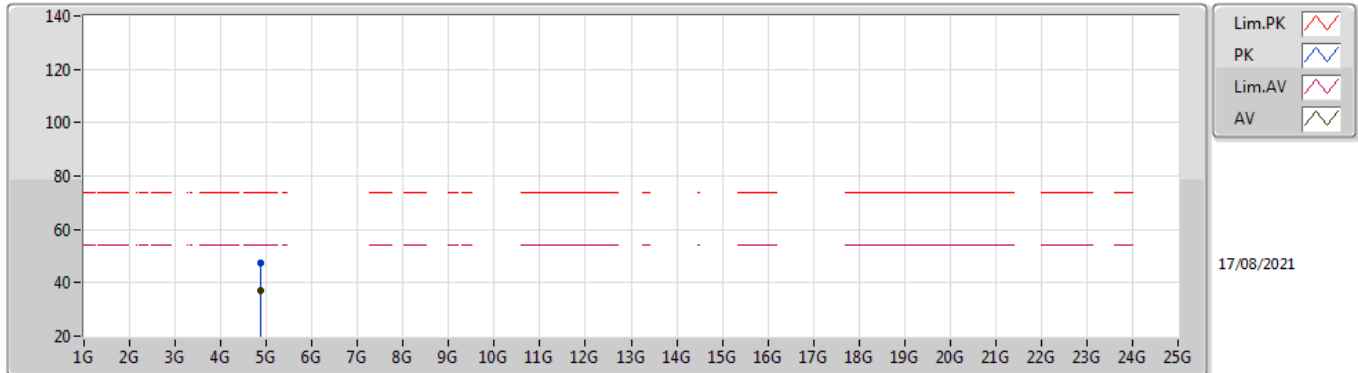
2440MHz_TX



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	4.87794G	37.32	54.00	-16.68	8.30	3	Vertical	67	3.00	-	29.02	31.20	6.31	29.21
PK	4.88148G	47.24	74.00	-26.76	8.30	3	Vertical	67	3.00	-	38.94	31.20	6.31	29.21

BT-LE(2Mbps)

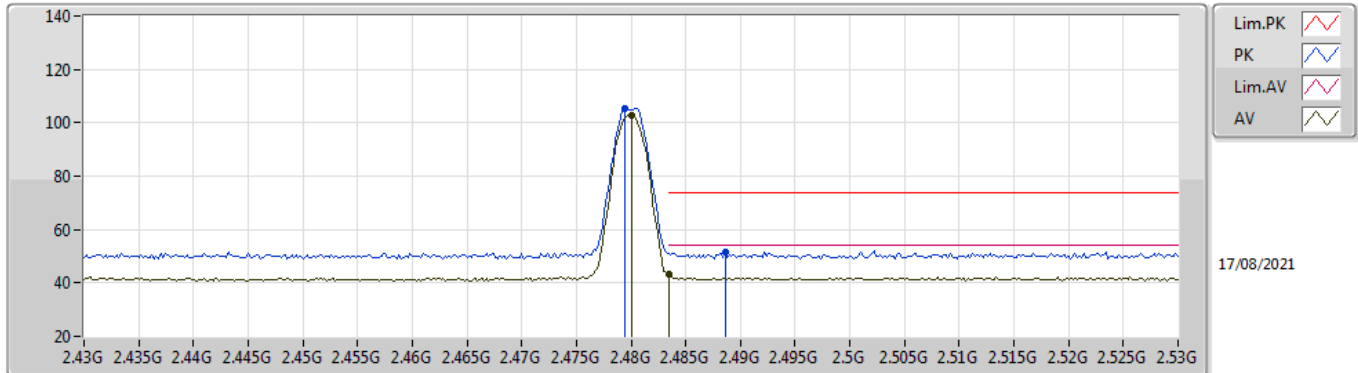
2440MHz_TX



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	4.87789G	37.00	54.00	-17.00	8.30	3	Horizontal	356	1.50	-	28.70	31.20	6.31	29.21
PK	4.8814G	47.27	74.00	-26.73	8.30	3	Horizontal	356	1.50	-	38.97	31.20	6.31	29.21

BT-LE(2Mbps)

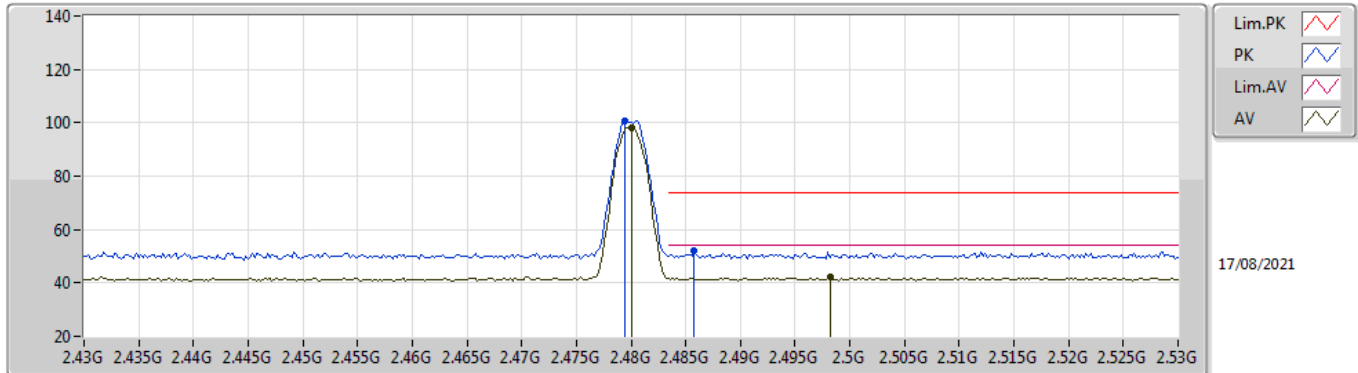
2480MHz_TX



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	102.64	Inf	-Inf	2.19	3	Vertical	317	1.14	-	100.45	27.66	4.50	29.97
AV	2.4835G	43.11	54.00	-10.89	2.20	3	Vertical	317	1.14	-	40.91	27.67	4.50	29.97
PK	2.4794G	105.45	Inf	-Inf	2.19	3	Vertical	317	1.14	-	103.26	27.66	4.50	29.97
PK	2.4886G	51.57	74.00	-22.43	2.22	3	Vertical	317	1.14	-	49.35	27.68	4.51	29.97

BT-LE(2Mbps)

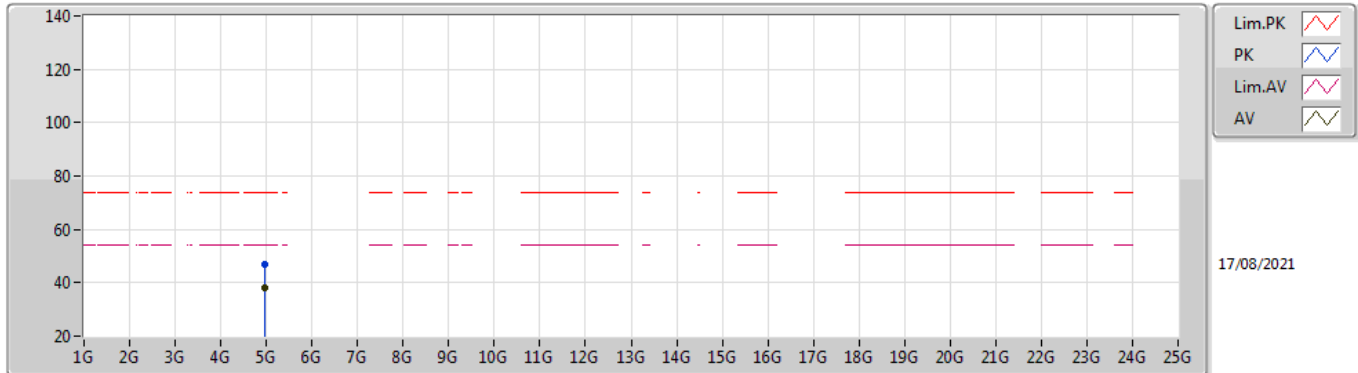
2480MHz_TX



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	98.13	Inf	-Inf	2.19	3	Horizontal	55	2.88	-	95.94	27.66	4.50	29.97
AV	2.4982G	42.20	54.00	-11.80	2.26	3	Horizontal	55	2.88	-	39.94	27.70	4.52	29.96
PK	2.4794G	100.93	Inf	-Inf	2.19	3	Horizontal	55	2.88	-	98.74	27.66	4.50	29.97
PK	2.4858G	52.04	74.00	-21.96	2.20	3	Horizontal	55	2.88	-	49.84	27.67	4.50	29.97

BT-LE(2Mbps)

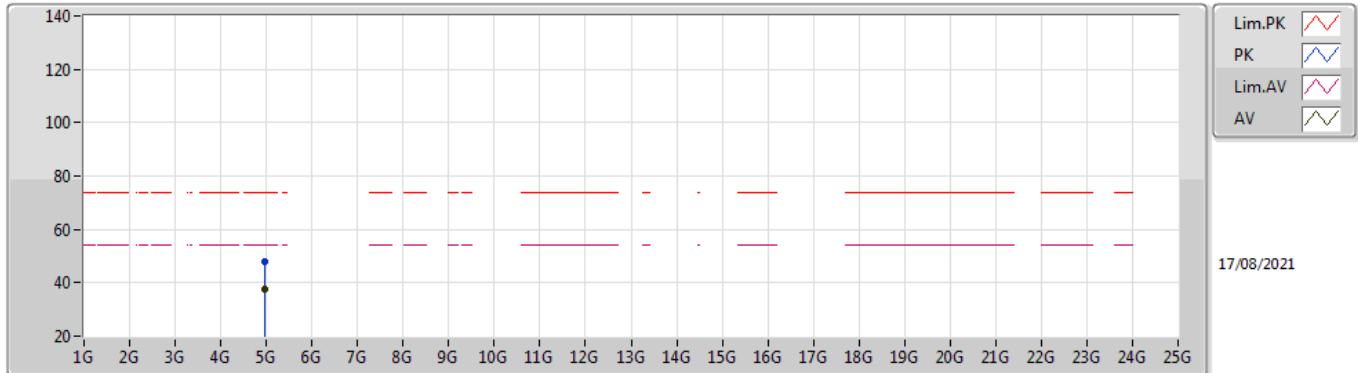
2480MHz_TX



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	4.96173G	37.97	54.00	-16.03	8.53	3	Vertical	340	1.50	-	29.44	31.35	6.36	29.18
PK	4.96082G	47.08	74.00	-26.92	8.52	3	Vertical	340	1.50	-	38.56	31.34	6.36	29.18

BT-LE(2Mbps)

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	4.96067G	37.53	54.00	-16.47	8.52	3	Horizontal	98	1.48	-	29.01	31.34	6.36	29.18
PK	4.9613G	48.01	74.00	-25.99	8.53	3	Horizontal	98	1.48	-	39.48	31.35	6.36	29.18



Summary

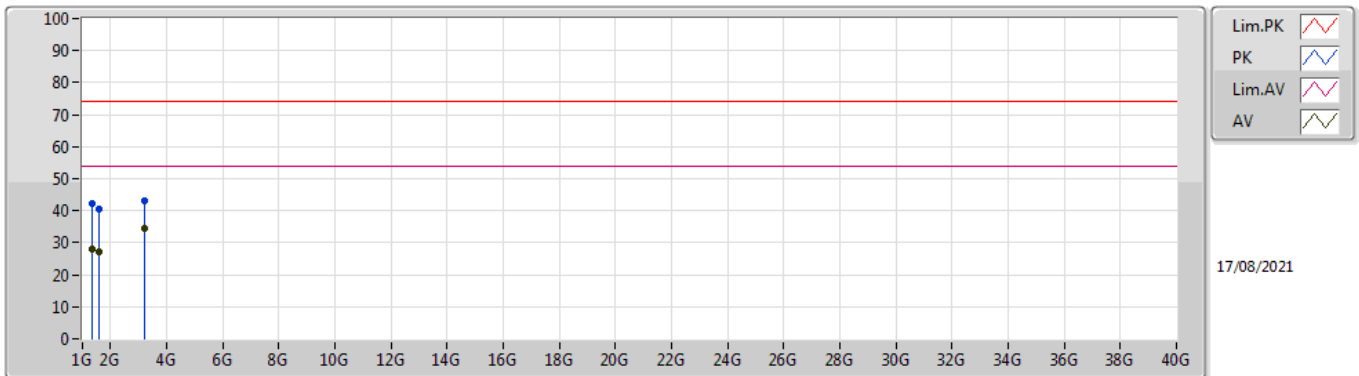
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	3.2023G	34.30	54.00	-19.70	Vertical
Mode 2	Pass	AV	4.81388G	47.01	54.00	-6.99	Vertical



Result

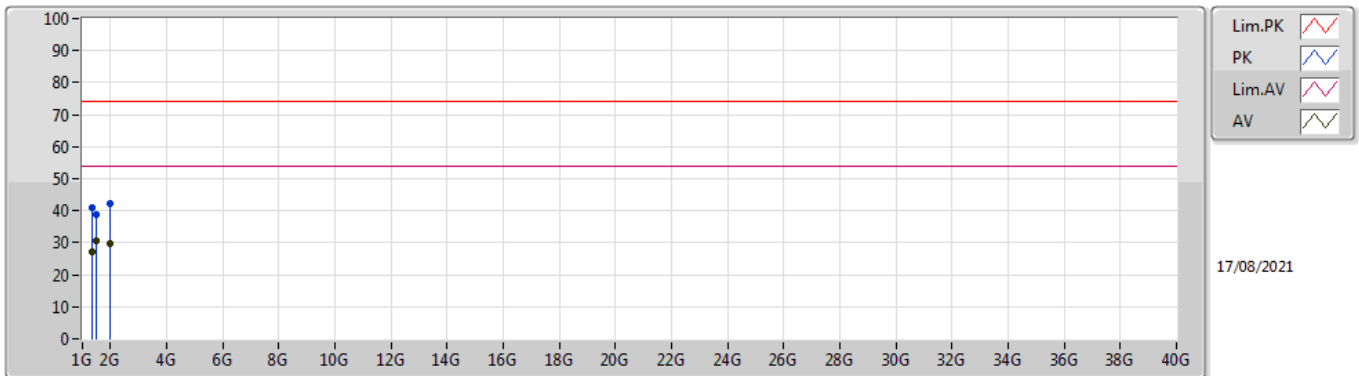
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
Mode 1	Pass	AV	1.33144G	27.81	54.00	-26.19	3	Vertical	360	1.00	-
Mode 1	Pass	AV	1.603G	26.94	54.00	-27.06	3	Vertical	360	1.00	-
Mode 1	Pass	AV	3.2023G	34.30	54.00	-19.70	3	Vertical	360	1.00	-
Mode 1	Pass	PK	1.33144G	42.44	74.00	-31.56	3	Vertical	360	1.00	-
Mode 1	Pass	PK	1.603G	40.35	74.00	-33.65	3	Vertical	360	1.00	-
Mode 1	Pass	PK	3.2023G	43.24	74.00	-30.76	3	Vertical	360	1.00	-
Mode 1	Pass	AV	1.333G	26.97	54.00	-27.03	3	Horizontal	0	1.00	-
Mode 1	Pass	AV	1.492G	30.53	54.00	-23.47	3	Horizontal	0	1.00	-
Mode 1	Pass	AV	1.95934G	29.55	54.00	-24.45	3	Horizontal	0	1.00	-
Mode 1	Pass	PK	1.333G	41.11	74.00	-32.89	3	Horizontal	0	1.00	-
Mode 1	Pass	PK	1.492G	38.80	74.00	-35.20	3	Horizontal	0	1.00	-
Mode 1	Pass	PK	1.95934G	42.14	74.00	-31.86	3	Horizontal	0	1.00	-
Mode 2	Pass	AV	1.20004G	42.54	54.00	-11.46	3	Vertical	58	1.30	-
Mode 2	Pass	AV	1.50002G	44.21	54.00	-9.79	3	Vertical	360	1.50	-
Mode 2	Pass	AV	4.81388G	47.01	54.00	-6.99	3	Vertical	0	2.84	-
Mode 2	Pass	PK	1.20004G	46.00	74.00	-28.00	3	Vertical	58	1.30	-
Mode 2	Pass	PK	1.50002G	47.43	74.00	-26.57	3	Vertical	360	1.50	-
Mode 2	Pass	PK	4.81388G	54.39	74.00	-19.61	3	Vertical	0	2.84	-
Mode 2	Pass	AV	1.20004G	41.92	54.00	-12.08	3	Horizontal	66	1.94	-
Mode 2	Pass	AV	1.34136G	27.41	54.00	-26.59	3	Horizontal	0	1.00	-
Mode 2	Pass	AV	1.71598G	45.23	68.20	-22.97	3	Horizontal	199	2.15	-
Mode 2	Pass	PK	1.20004G	45.64	74.00	-28.36	3	Horizontal	66	1.94	-
Mode 2	Pass	PK	1.34136G	38.63	74.00	-35.37	3	Horizontal	0	1.00	-
Mode 2	Pass	PK	1.71598G	48.20	68.20	-20.00	3	Horizontal	199	2.15	-

Mode 1



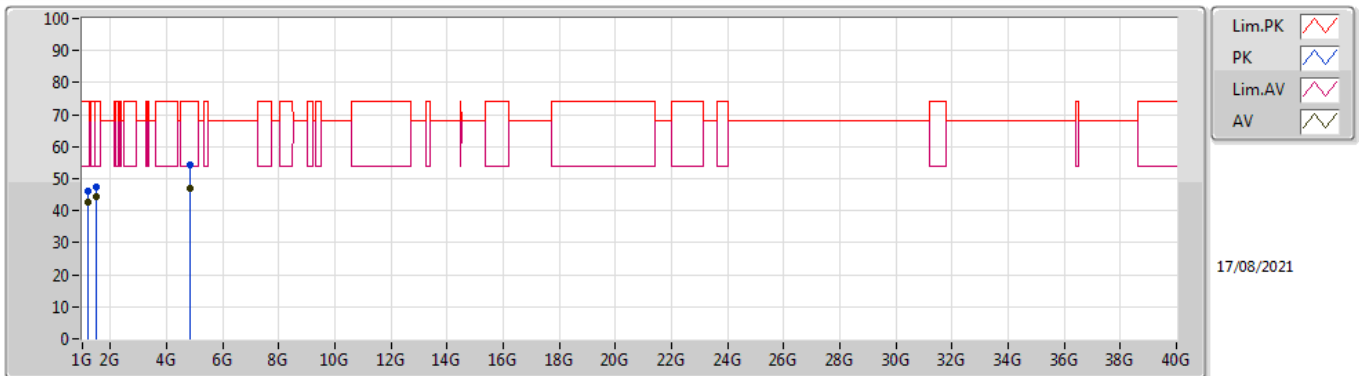
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.33144G	27.81	54.00	-26.19	-2.51	3	Vertical	360	1.00	-	30.32	25.86	3.24	31.61
AV	1.603G	26.94	54.00	-27.06	-2.25	3	Vertical	360	1.00	-	29.19	25.00	3.52	30.77
AV	3.2023G	34.30	54.00	-19.70	4.17	3	Vertical	360	1.00	-	30.13	28.89	5.07	29.79
PK	1.33144G	42.44	74.00	-31.56	-2.51	3	Vertical	360	1.00	-	44.95	25.86	3.24	31.61
PK	1.603G	40.35	74.00	-33.65	-2.25	3	Vertical	360	1.00	-	42.60	25.00	3.52	30.77
PK	3.2023G	43.24	74.00	-30.76	4.17	3	Vertical	360	1.00	-	39.07	28.89	5.07	29.79

Mode 1



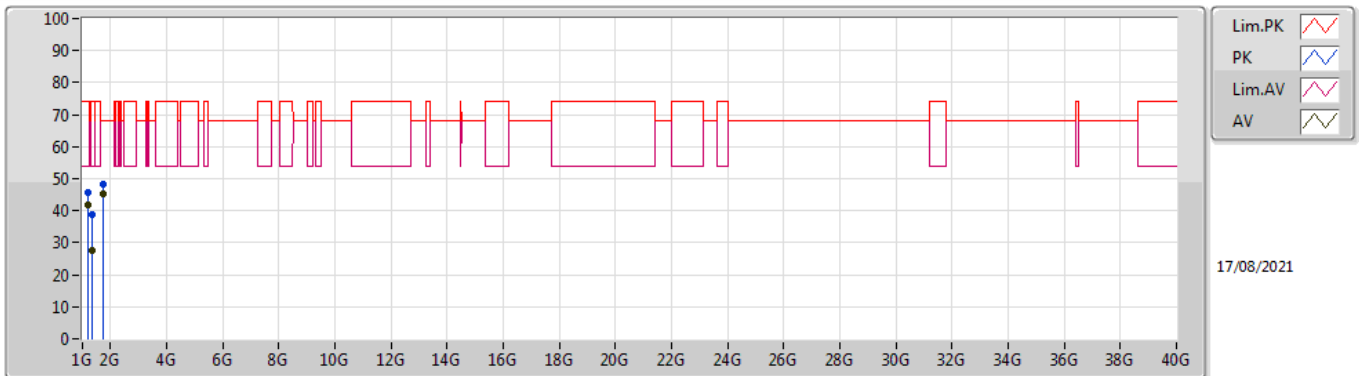
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.333G	26.97	54.00	-27.03	-2.49	3	Horizontal	0	1.00	-	29.46	25.87	3.24	31.60
AV	1.492G	30.53	54.00	-23.47	-1.76	3	Horizontal	0	1.00	-	32.29	25.76	3.42	30.94
AV	1.95934G	29.55	54.00	-24.45	-0.12	3	Horizontal	0	1.00	-	29.67	26.22	3.94	30.28
PK	1.333G	41.11	74.00	-32.89	-2.49	3	Horizontal	0	1.00	-	43.60	25.87	3.24	31.60
PK	1.492G	38.80	74.00	-35.20	-1.76	3	Horizontal	0	1.00	-	40.56	25.76	3.42	30.94
PK	1.95934G	42.14	74.00	-31.86	-0.12	3	Horizontal	0	1.00	-	42.26	26.22	3.94	30.28

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	1.20004G	42.54	54.00	-11.46	-3.41	3	Vertical	58	1.30	-	45.95	25.70	3.05	32.16
AV	1.50002G	44.21	54.00	-9.79	-1.78	3	Vertical	360	1.50	-	45.99	25.70	3.43	30.91
AV	4.81388G	47.01	54.00	-6.99	8.17	3	Vertical	0	2.84	-	38.84	31.13	6.27	29.23
PK	1.20004G	46.00	74.00	-28.00	-3.41	3	Vertical	58	1.30	-	49.41	25.70	3.05	32.16
PK	1.50002G	47.43	74.00	-26.57	-1.78	3	Vertical	360	1.50	-	49.21	25.70	3.43	30.91
PK	4.81388G	54.39	74.00	-19.61	8.17	3	Vertical	0	2.84	-	46.22	31.13	6.27	29.23

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	1.20004G	41.92	54.00	-12.08	-3.41	3	Horizontal	66	1.94	-	45.33	25.70	3.05	32.16
AV	1.34136G	27.41	54.00	-26.59	-2.44	3	Horizontal	0	1.00	-	29.85	25.88	3.25	31.57
AV	1.71598G	45.23	68.20	-22.97	-1.82	3	Horizontal	199	2.15	-	47.05	25.13	3.66	30.61
PK	1.20004G	45.64	74.00	-28.36	-3.41	3	Horizontal	66	1.94	-	49.05	25.70	3.05	32.16
PK	1.34136G	38.63	74.00	-35.37	-2.44	3	Horizontal	0	1.00	-	41.07	25.88	3.25	31.57
PK	1.71598G	48.20	68.20	-20.00	-1.82	3	Horizontal	199	2.15	-	50.02	25.13	3.66	30.61