

FCC Radio Test Report

FCC ID : 2AEIM-1472547G
Equipment : TPMS sensor
Brand Name : Tesla
Model Name : 1472547G
Applicant : Tesla, Inc.
3500 Deer Creek Road Palo Alto, California US 94304
United States Of America
Manufacturer : Tesla, Inc.
3500 Deer Creek Road Palo Alto, California US 94304
United States Of America
Standard : 47 CFR FCC Part 15.247

The product was received on Jul. 08, 2021, and testing was started from Sep. 02, 2021 and completed on Sep. 08, 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
FR9D1614-01AL	01	Initial issue of report	Sep. 16, 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: Sam Tsai

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: <ul style="list-style-type: none"> ◆ Bluetooth LE uses a GFSK (1Mbps/2Mbps) modulation. ◆ BWch is the nominal channel bandwidth. 			
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1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Gain
1	TESLA	TPMS	monopole	N/A	3.39

Note 1: The EUT has one antenna.

For BT function:

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

Only Ant. 1 can be used as transmitting/receiving.

1.1.3 EUT Information

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

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
BT-LE(1Mbps)	1	0	n/a (DC>=0.98)	n/a (DC>=0.98)
BT-LE(2Mbps)	0.103	9.87	64.375u	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	Daniel Lin	20.7~26.5°C / 52~64%	08/Sep/2021
RF Conducted	TH06-HY	Howard Lee	24.6~26.4°C / 50~63%	07/Sep/2021~08/Sep/2021
Radiated	03CH02-HY	Lego Lin	20.8~26.1°C / 55~60%	02/Sep/2021~06/Sep/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	BTool v1.41.11
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Mode	Power Setting
BT-LE(1Mbps)	-
2402MHz	0XE
2440MHz	0XE
2480MHz	0XE




Test Software Version	BTool v1.42.16
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Mode	Power Setting
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	DC Power Supply 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	DC Power Supply mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT	V		

2.3 Accessories

Accessories				
Battery	Brand Name	Tohoku Murata	Model Name	CR2050W
	Power Rating	3Vdc	Type	Li-ion, Y

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

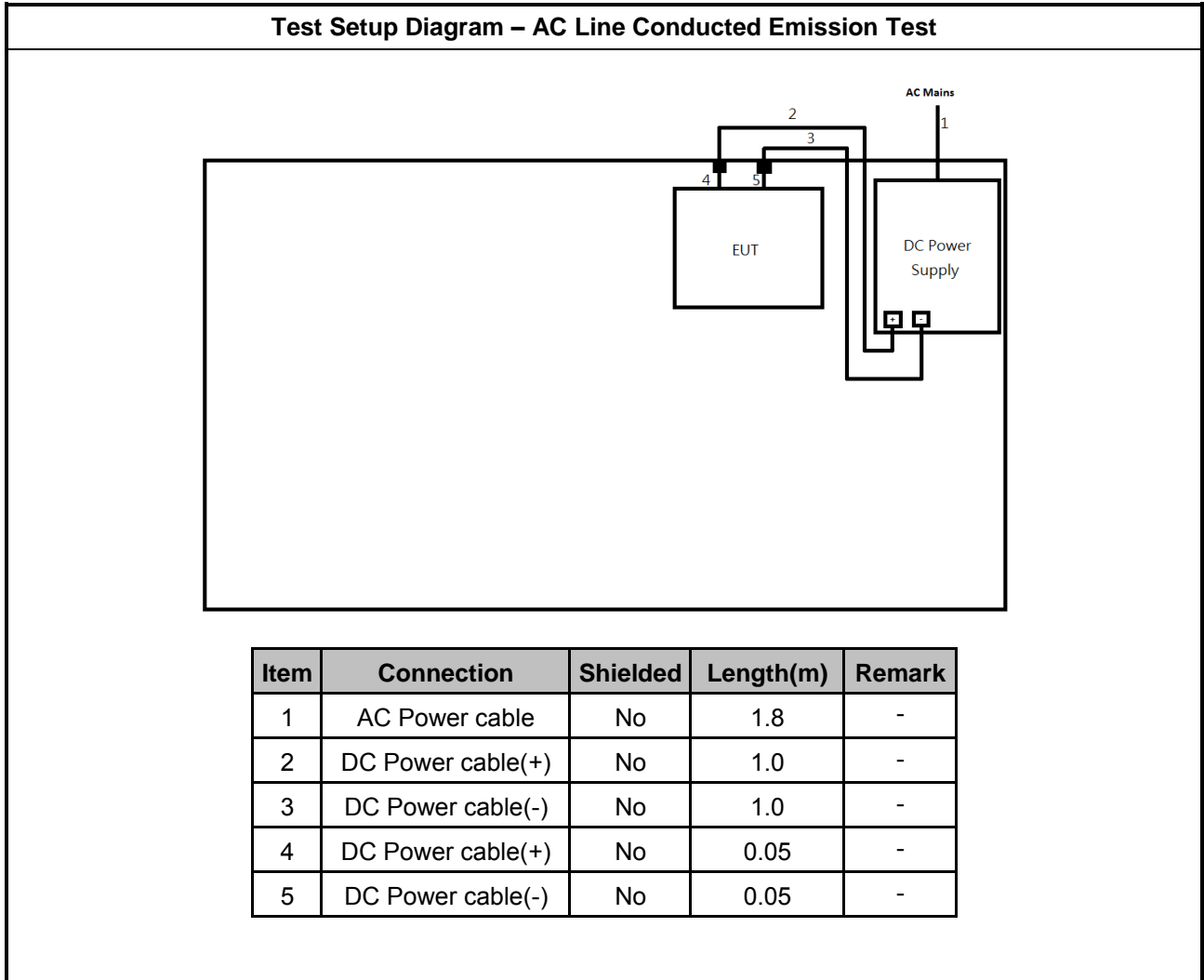
2.4 Support Equipment

Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	DC Power Supply	GW	GPS-3030DD	-	-

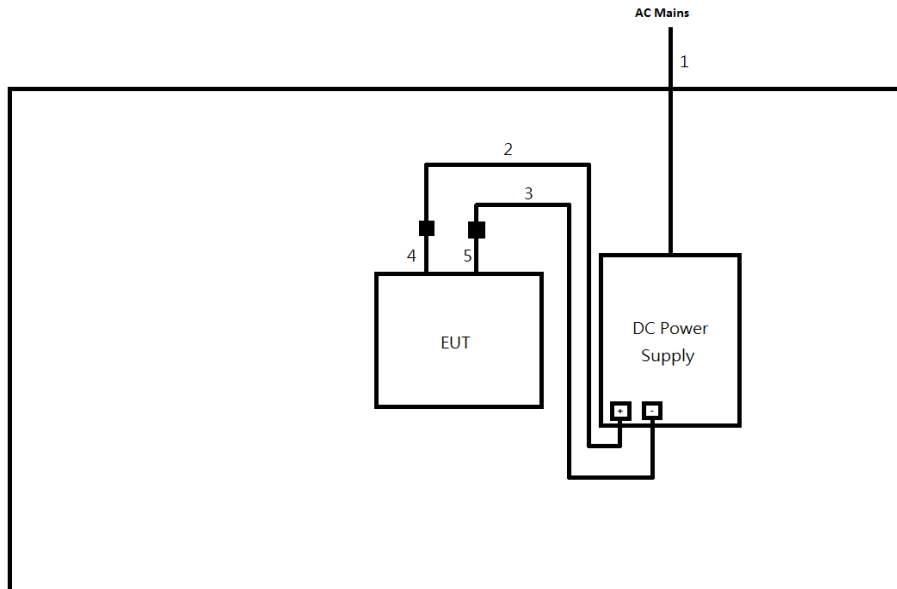
Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-
3	DC Power Supply	GW	GPS-3030DD	-	-
4	DC power cable(-)	MiSUMi	WTN1229-BLACK	-	-
5	DC power cable(+)	MiSUMi	WTN1229-RED	-	-

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	DC Power Supply	GW	GPS-3030DD	-	-

2.5 Test Setup Diagram



Test Setup Diagram - Radiated Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	DC Power cable(+)	No	1.0	-
3	DC Power cable(-)	No	1.0	-
4	DC Power cable(+)	No	0.05	-
5	DC Power cable(-)	No	0.05	-



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

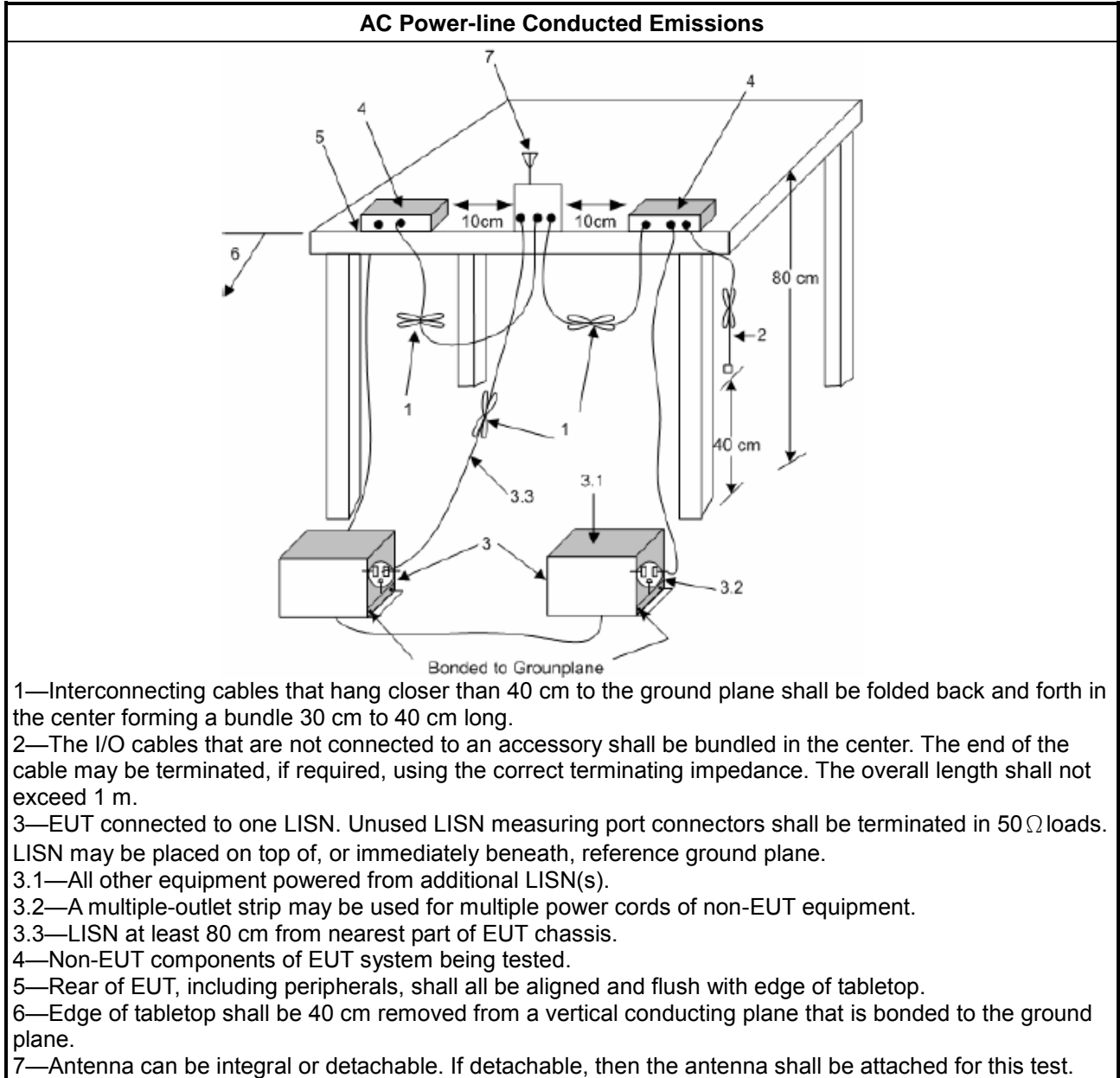
Test Method
▪ Refer as ANSI C63.10-2013, clause 6.2 foray power-line conducted emissions.

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

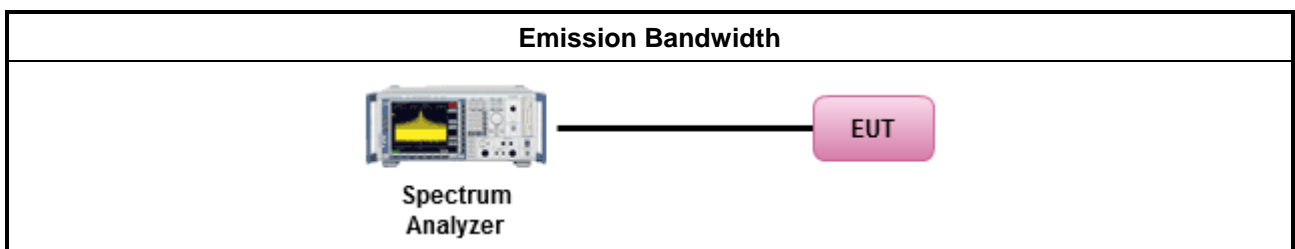
3.2.2 Measuring Instruments

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_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

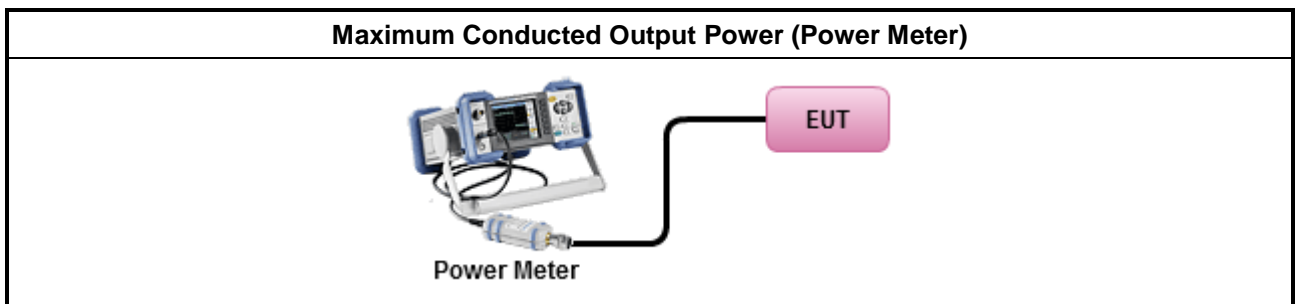
3.3.2 Measuring Instruments

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 	
<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

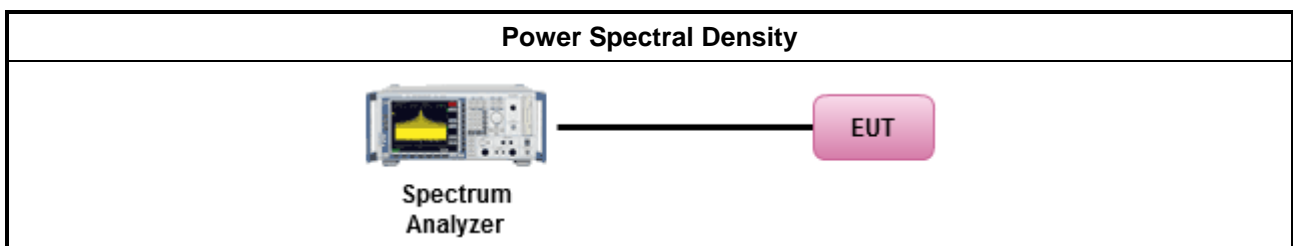
3.4.2 Measuring Instruments

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.

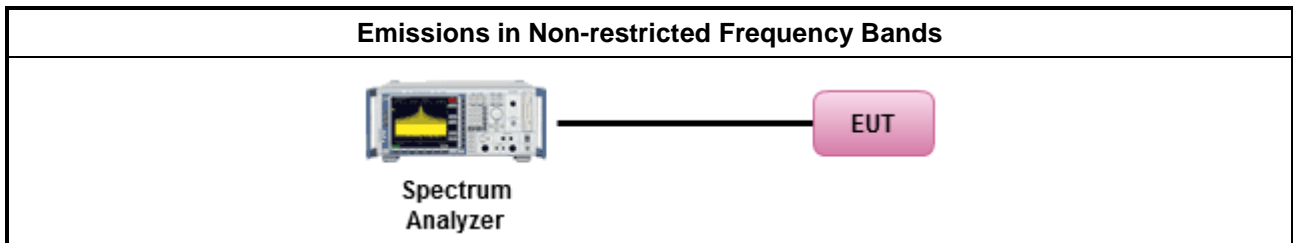
3.5.2 Measuring Instruments

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

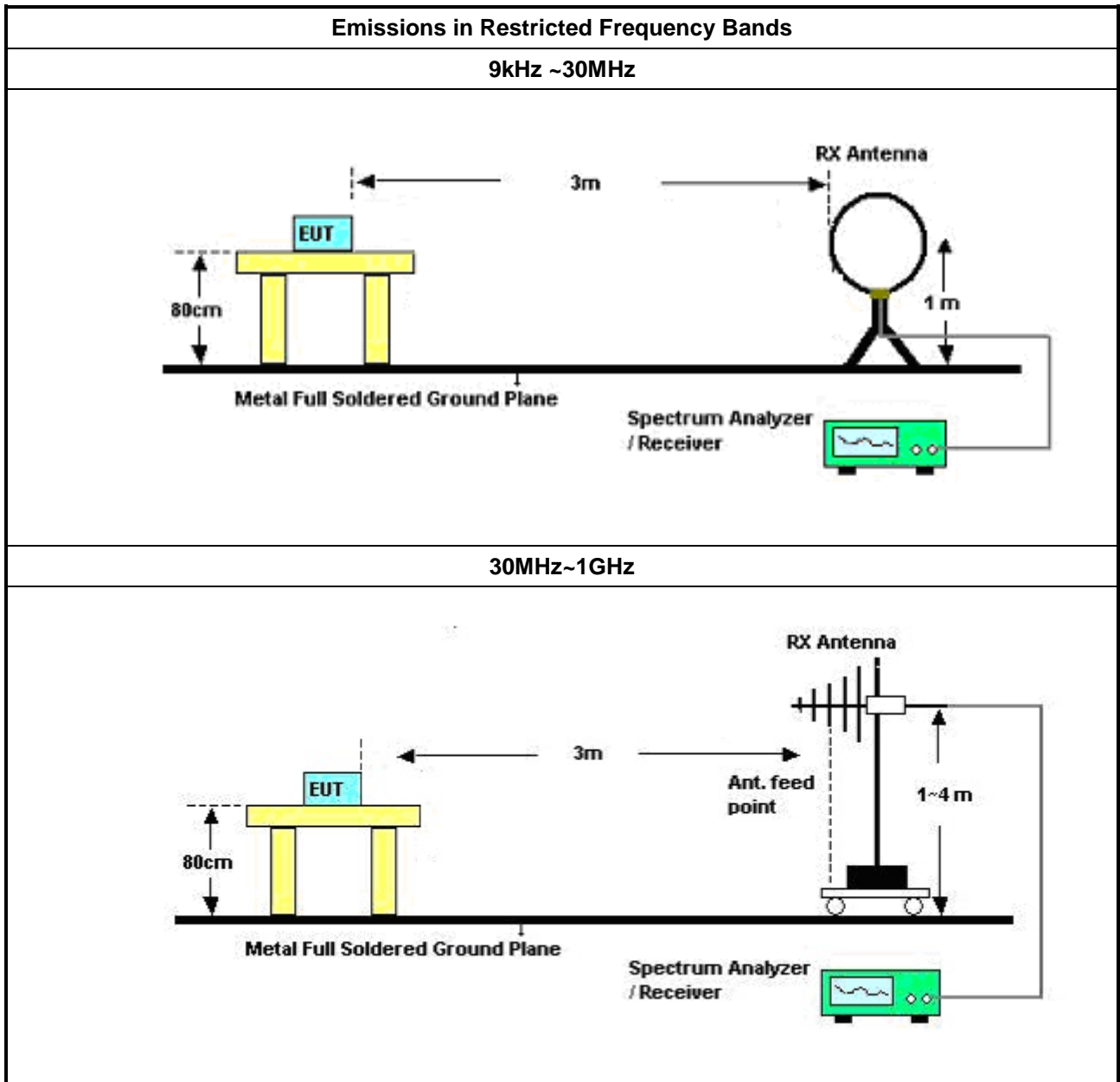
Test Method	
	<ul style="list-style-type: none"> ▪ The average emission levels shall be measured in [duty cycle \geq 98 or duty factor].
	<ul style="list-style-type: none"> ▪ Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency 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.

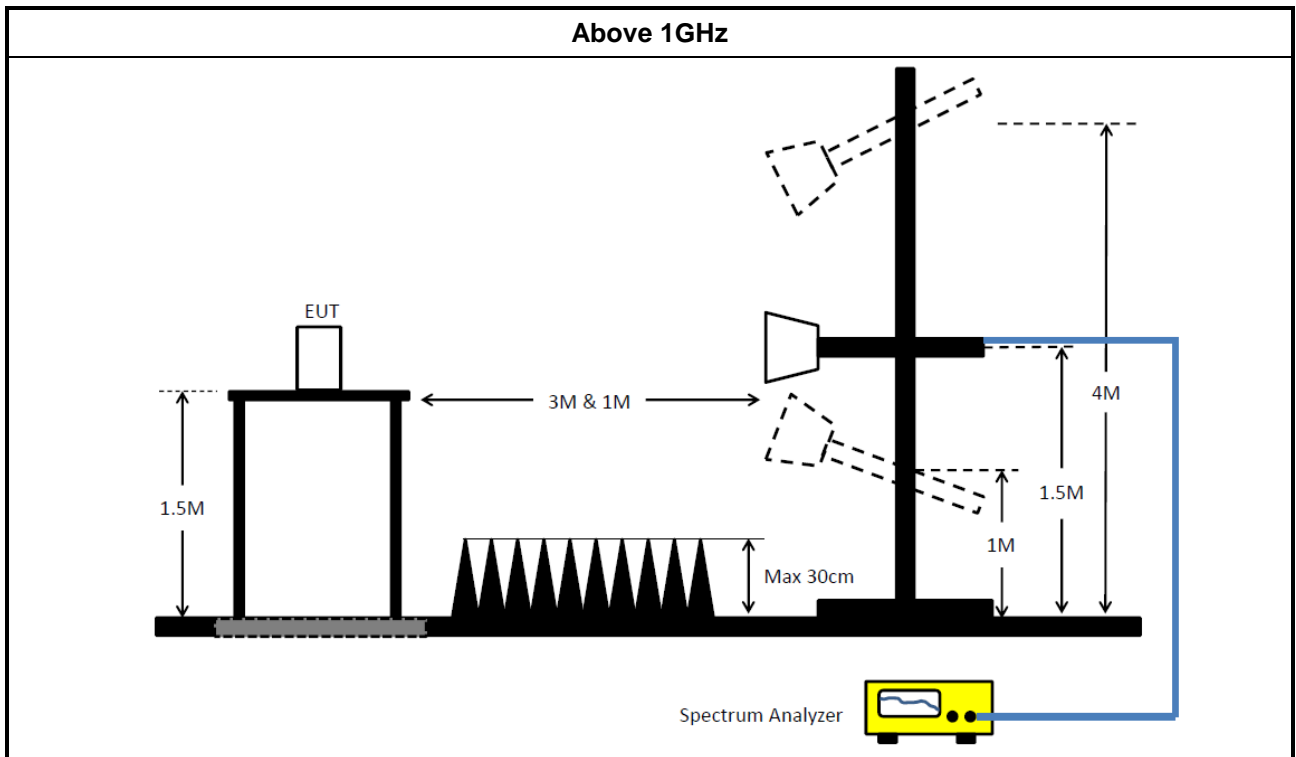
3.6.4 Measurement Results Calculation

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	03CH02-HY	30MHz~1GHz 3m	02/Aug/2021	01/Aug/2022
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3m	01/Aug/2021	31/Jul/2022
Signal Analyzer	R&S	FSP40	100593	9kHz~40GHz	12/Mar/2021	11/Mar/2022
Amplifier	Agilent	8447D	2944A11149	100kHz~1.3GHz	29/Jun/2021	28/Jun/2022
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz~26.5GHz	23/Oct/2020	22/Oct/2021
Bilog Antenna & 5dB Attenuator	SCHAFFNER / MTJ	CBL 6112B / MTJ6102-05	2723 / 2	30MHz~1GHz	06/Sep/2020	05/Sep/2021
Double Ridged Guide Horn Antenna	SCHWARZBEC	BBHA 9120 D	BBHA 9120 D 01543	1GHz~18GHz	04/Jun/2021	03/Jun/2022
RF Cable	MVE	400LL	MVE-1-0802	9kHz~30MHz	05/May/2021	04/May/2022
RF Cable	MVE	400LL	MVE-1-0802	30MHz~1GHz	05/May/2021	04/May/2022
RF Cable-R03m	HUBER+SUHNER	SUCOFLEX104	805193/4+805192/4	1GHz~40GHz	06/Apr/2021	05/Apr/2022
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz~40GHz	11/Mar/2021	10/Mar/2022
EMI Test Receiver	R&S	ESR3	102052	9kHz~3.6GHz	19/Apr/2021	18/Apr/2022
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	16/Mar/2021	15/Mar/2022



Summary

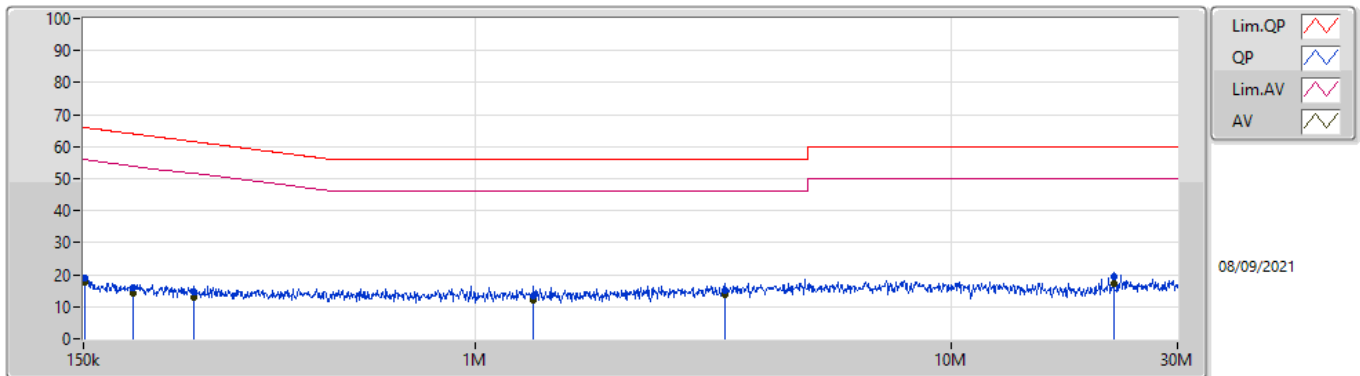
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	4.073M	14.15	46.00	-31.85	Neutral



Mode Configure

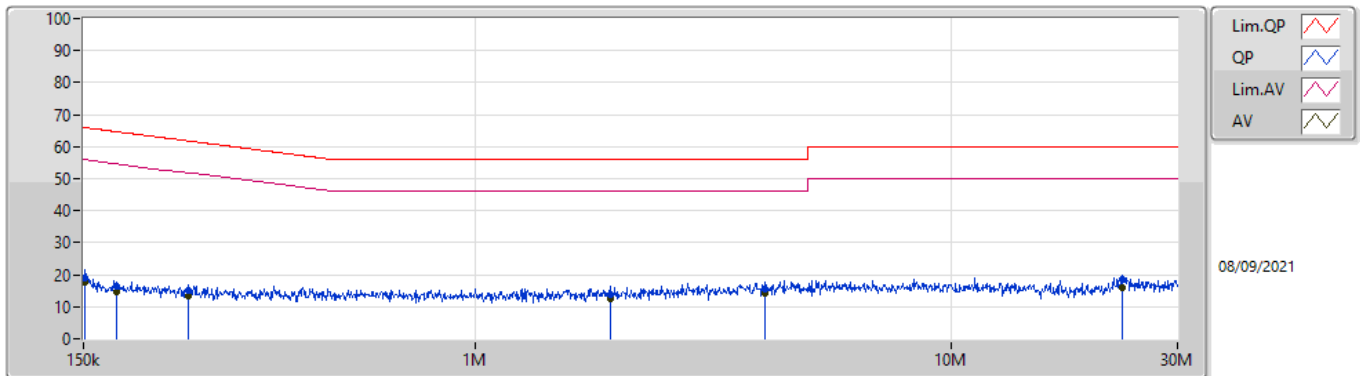
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	151.202k	18.82	65.92	-47.10	Line	-
Mode 1	Pass	AV	151.202k	17.62	55.92	-38.30	Line	-
Mode 1	Pass	QP	190.596k	15.99	64.01	-48.02	Line	-
Mode 1	Pass	AV	190.596k	14.06	54.01	-39.95	Line	-
Mode 1	Pass	QP	256.1k	14.60	61.56	-46.96	Line	-
Mode 1	Pass	AV	256.1k	13.12	51.56	-38.44	Line	-
Mode 1	Pass	QP	1.326M	13.22	56.00	-42.78	Line	-
Mode 1	Pass	AV	1.326M	12.09	46.00	-33.91	Line	-
Mode 1	Pass	QP	3.349M	14.88	56.00	-41.12	Line	-
Mode 1	Pass	AV	3.349M	13.64	46.00	-32.36	Line	-
Mode 1	Pass	QP	22.041M	19.28	60.00	-40.72	Line	-
Mode 1	Pass	AV	22.041M	17.32	50.00	-32.68	Line	-
Mode 1	Pass	QP	151.202k	18.95	65.92	-46.97	Neutral	-
Mode 1	Pass	AV	151.202k	17.65	55.92	-38.27	Neutral	-
Mode 1	Pass	QP	176.674k	16.38	64.64	-48.26	Neutral	-
Mode 1	Pass	AV	176.674k	14.55	54.64	-40.09	Neutral	-
Mode 1	Pass	QP	250.038k	14.96	61.76	-46.80	Neutral	-
Mode 1	Pass	AV	250.038k	13.25	51.76	-38.51	Neutral	-
Mode 1	Pass	QP	1.923M	13.66	56.00	-42.34	Neutral	-
Mode 1	Pass	AV	1.923M	12.60	46.00	-33.40	Neutral	-
Mode 1	Pass	QP	4.073M	15.53	56.00	-40.47	Neutral	-
Mode 1	Pass	AV	4.073M	14.15	46.00	-31.85	Neutral	-
Mode 1	Pass	QP	22.939M	18.45	60.00	-41.55	Neutral	-
Mode 1	Pass	AV	22.939M	16.04	50.00	-33.96	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	151.202k	18.82	65.92	-47.10	19.63	Line	-	-0.81	9.69	0.04	9.90
AV	151.202k	17.62	55.92	-38.30	19.63	Line	-	-2.01	9.69	0.04	9.90
QP	190.596k	15.99	64.01	-48.02	19.62	Line	-	-3.63	9.68	0.04	9.90
AV	190.596k	14.06	54.01	-39.95	19.62	Line	-	-5.56	9.68	0.04	9.90
QP	256.1k	14.60	61.56	-46.96	19.63	Line	-	-5.03	9.68	0.05	9.90
AV	256.1k	13.12	51.56	-38.44	19.63	Line	-	-6.51	9.68	0.05	9.90
QP	1.326M	13.22	56.00	-42.78	19.56	Line	-	-6.34	9.67	0.09	9.80
AV	1.326M	12.09	46.00	-33.91	19.56	Line	-	-7.47	9.67	0.09	9.80
QP	3.349M	14.88	56.00	-41.12	19.69	Line	-	-4.81	9.69	0.13	9.87
AV	3.349M	13.64	46.00	-32.36	19.69	Line	-	-6.05	9.69	0.13	9.87
QP	22.041M	19.28	60.00	-40.72	19.85	Line	-	-0.57	9.64	0.31	9.90
AV	22.041M	17.32	50.00	-32.68	19.85	Line	-	-2.53	9.64	0.31	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	151.202k	18.95	65.92	-46.97	19.63	Neutral	-	-0.68	9.69	0.04	9.90
AV	151.202k	17.65	55.92	-38.27	19.63	Neutral	-	-1.98	9.69	0.04	9.90
QP	176.674k	16.38	64.64	-48.26	19.62	Neutral	-	-3.24	9.68	0.04	9.90
AV	176.674k	14.55	54.64	-40.09	19.62	Neutral	-	-5.07	9.68	0.04	9.90
QP	250.038k	14.96	61.76	-46.80	19.63	Neutral	-	-4.67	9.68	0.05	9.90
AV	250.038k	13.25	51.76	-38.51	19.63	Neutral	-	-6.38	9.68	0.05	9.90
QP	1.923M	13.66	56.00	-42.34	19.58	Neutral	-	-5.92	9.68	0.10	9.80
AV	1.923M	12.60	46.00	-33.40	19.58	Neutral	-	-6.98	9.68	0.10	9.80
QP	4.073M	15.53	56.00	-40.47	19.73	Neutral	-	-4.20	9.69	0.14	9.90
AV	4.073M	14.15	46.00	-31.85	19.73	Neutral	-	-5.58	9.69	0.14	9.90
QP	22.939M	18.45	60.00	-41.55	19.94	Neutral	-	-1.49	9.73	0.31	9.90
AV	22.939M	16.04	50.00	-33.96	19.94	Neutral	-	-3.90	9.73	0.31	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)	705k	1.092M	1M09F1D	693.75k	1.089M
BT-LE(2Mbps)	842.5k	2.039M	2M04F1D	835k	2.016M

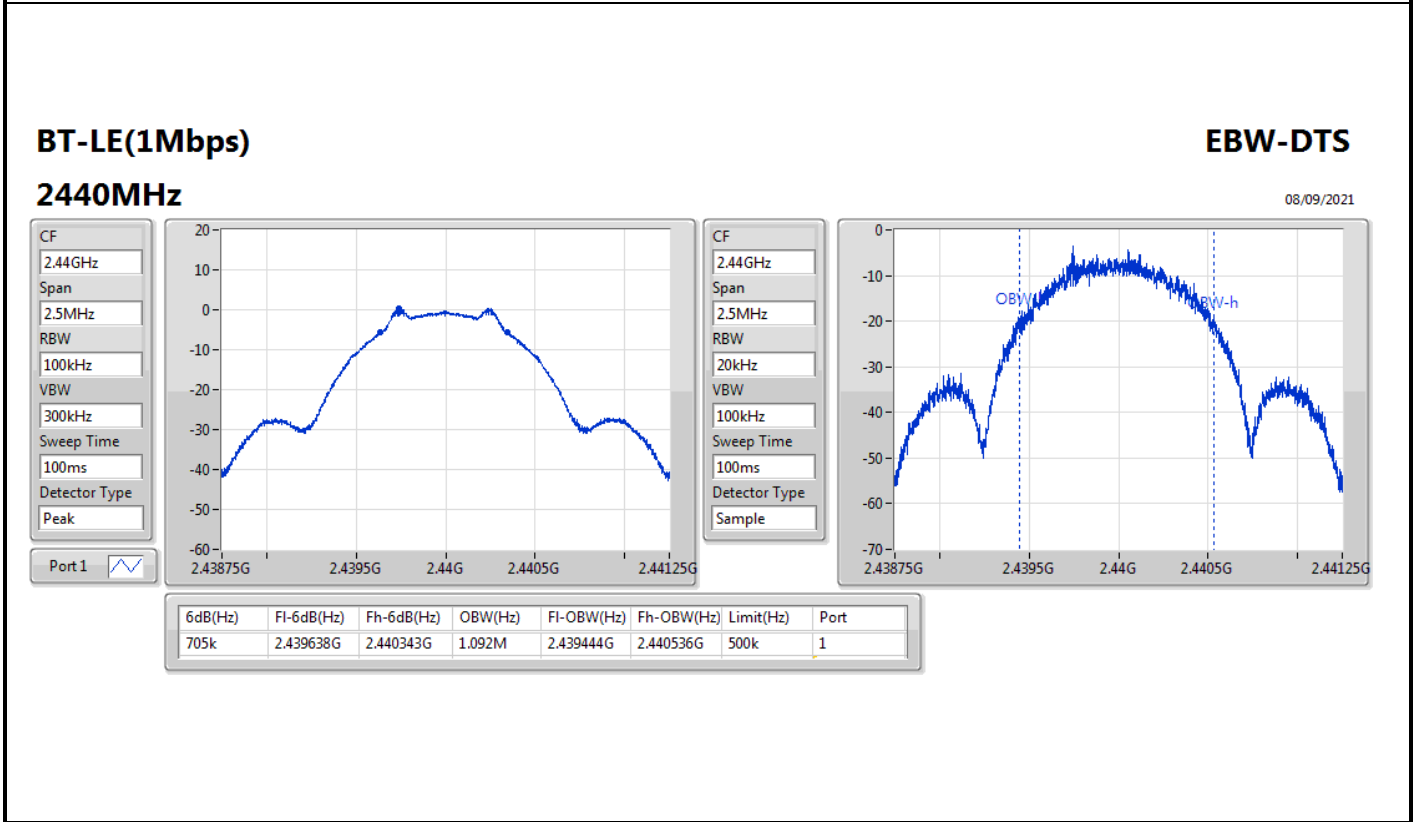
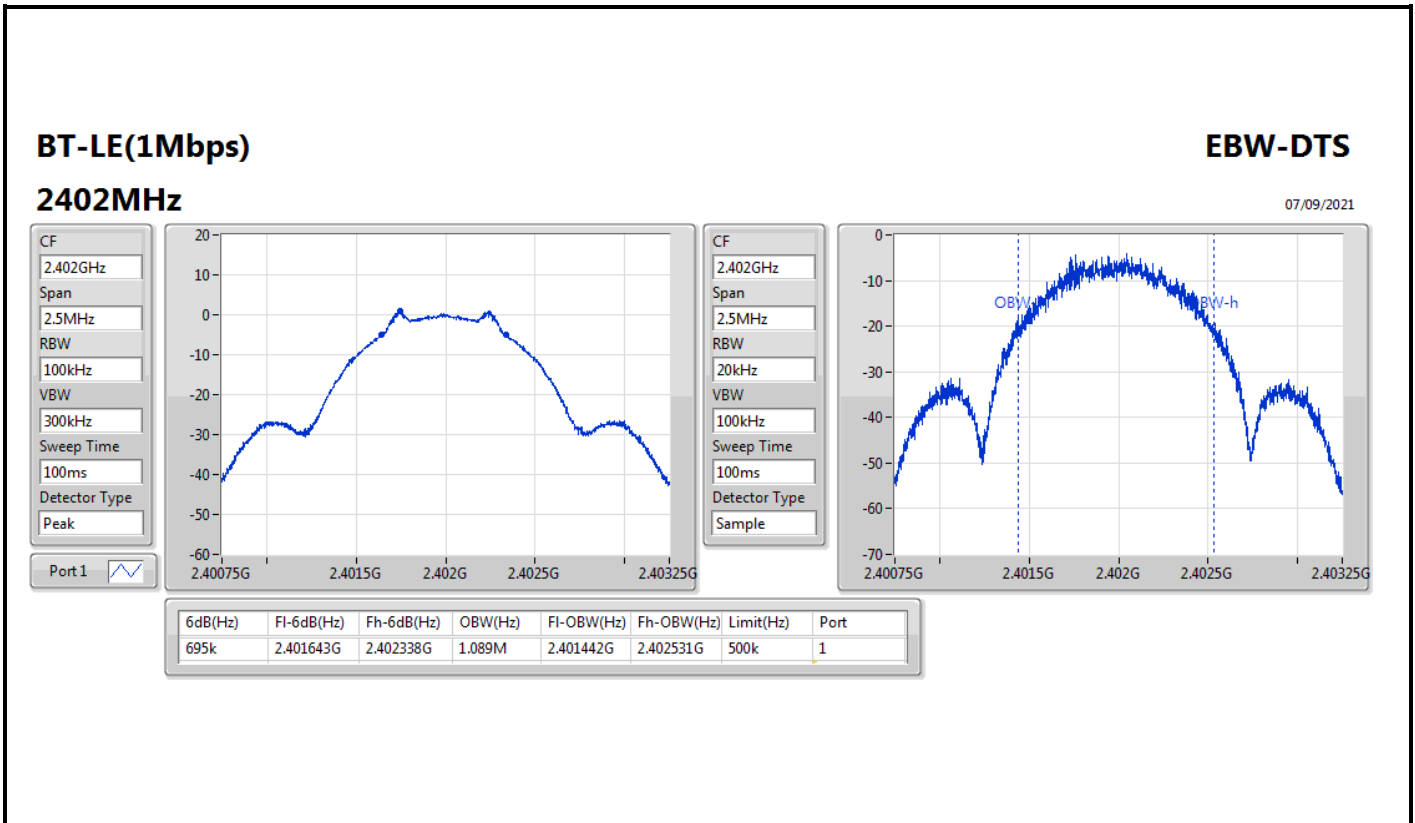
Max-N dB = Maximum 6dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

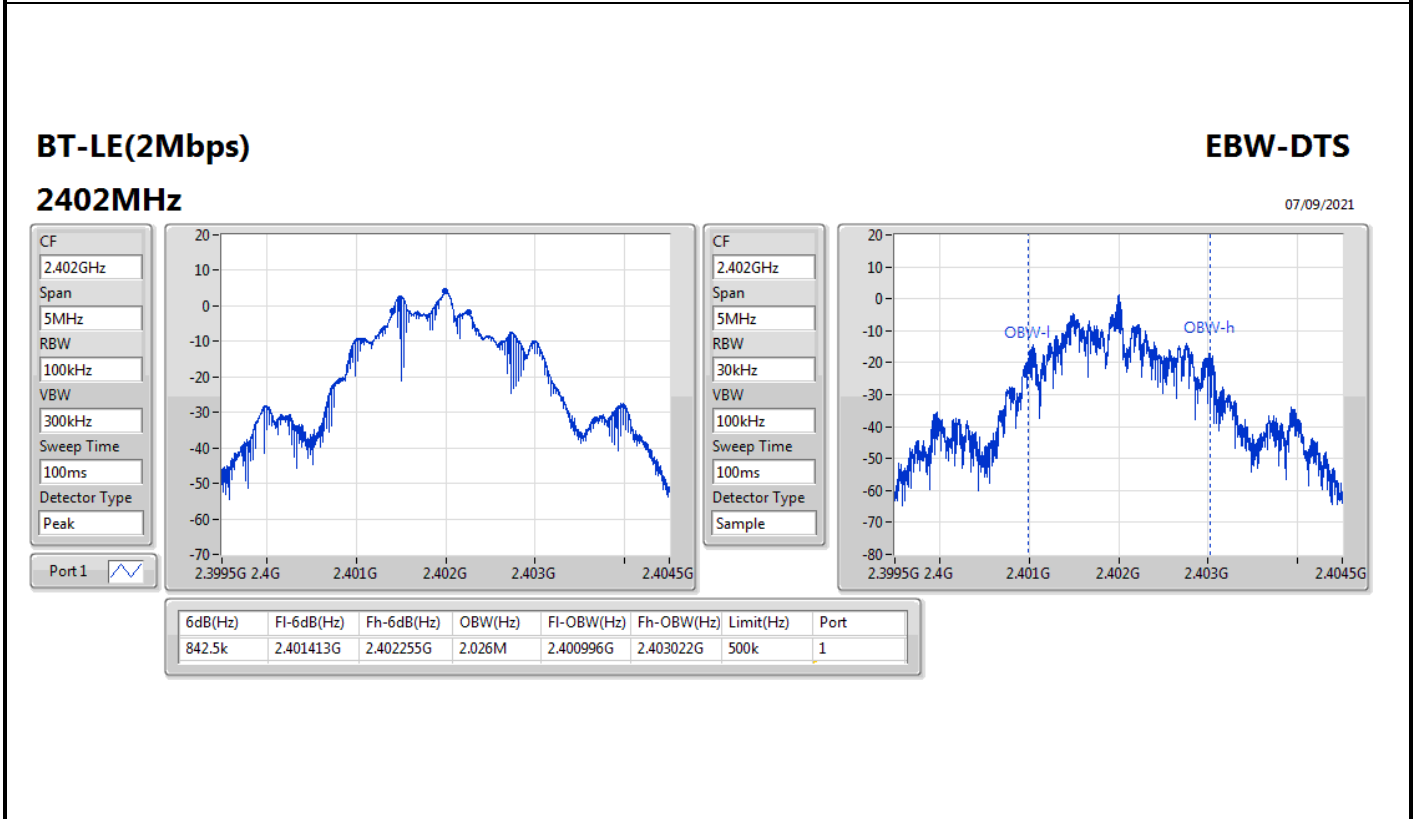
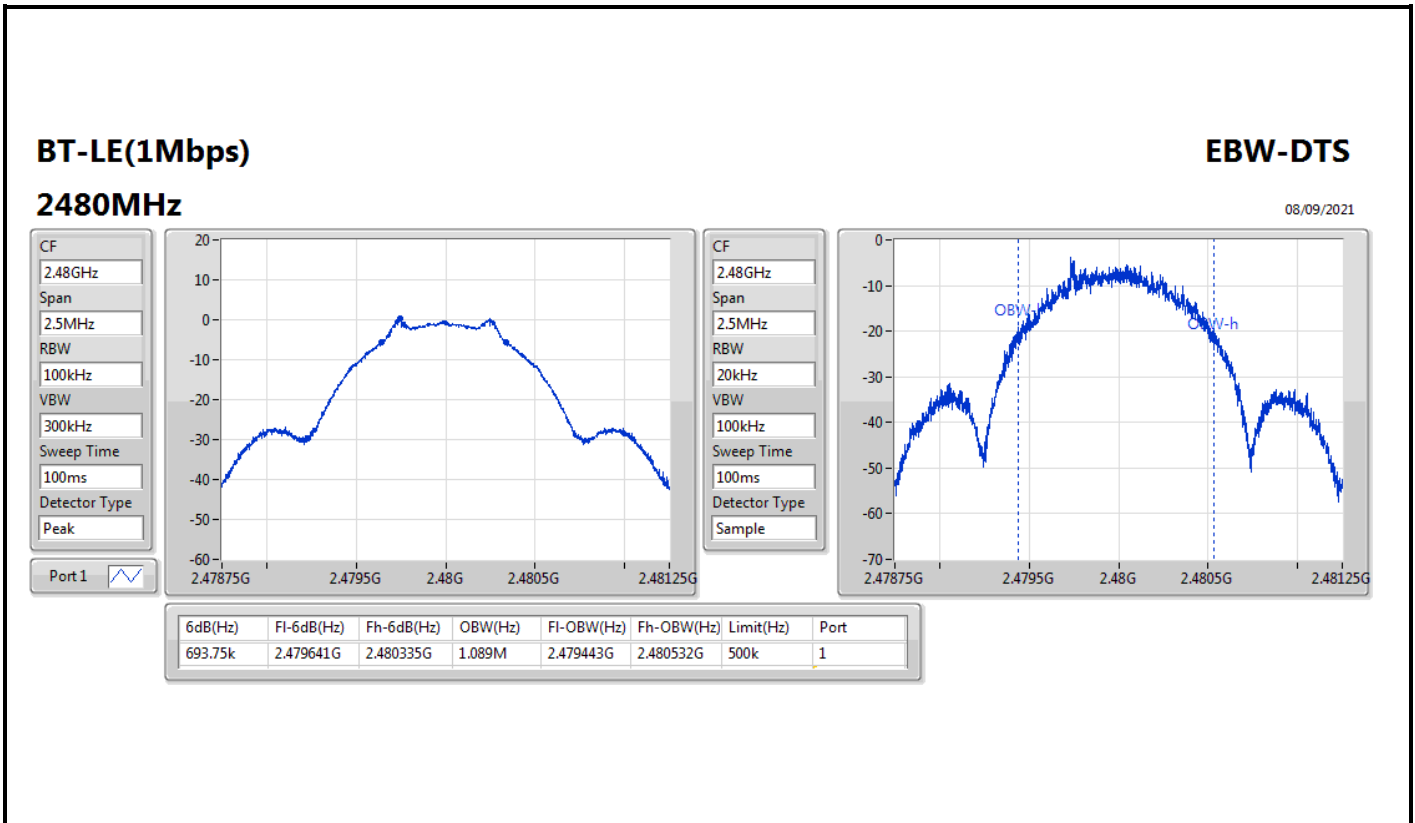


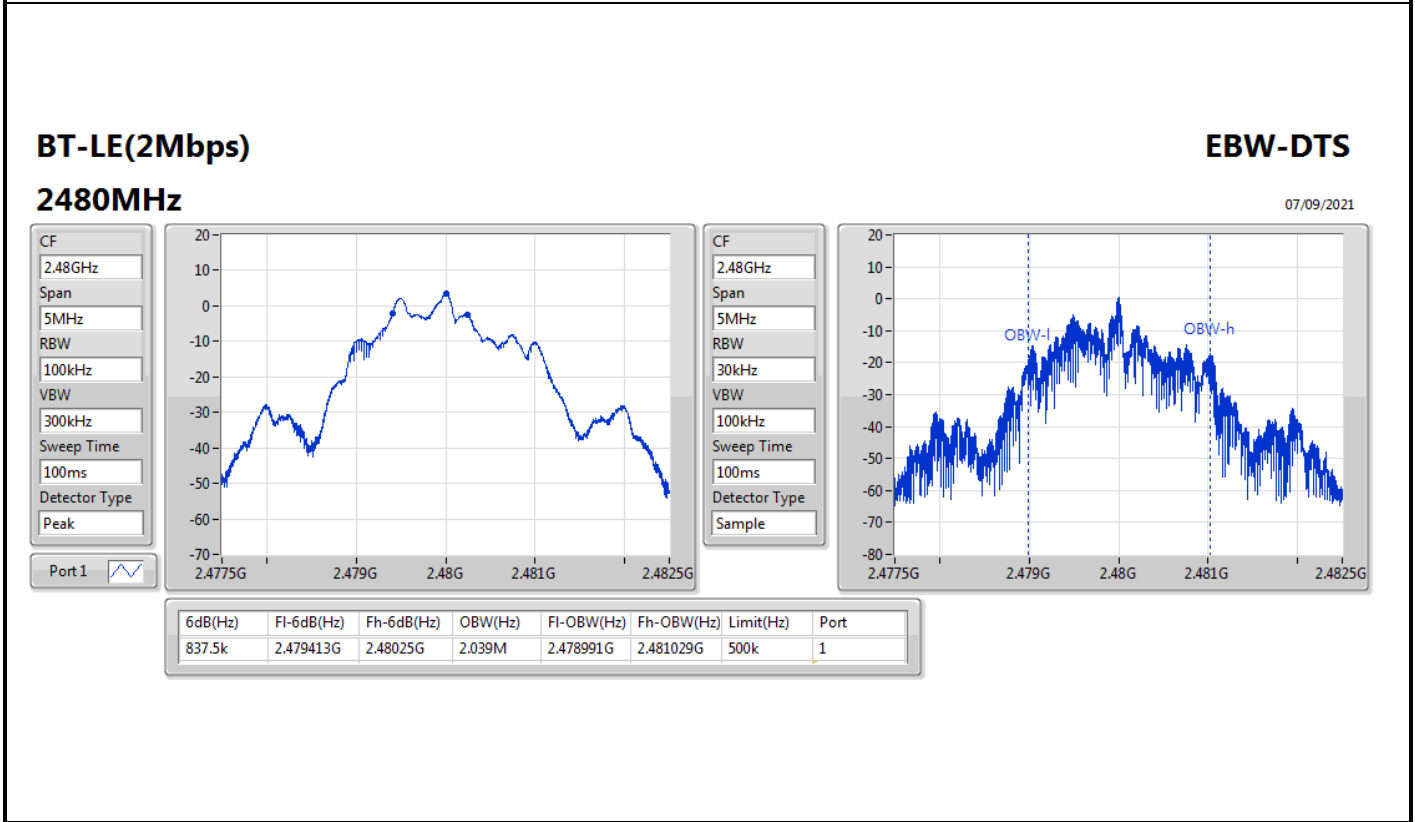
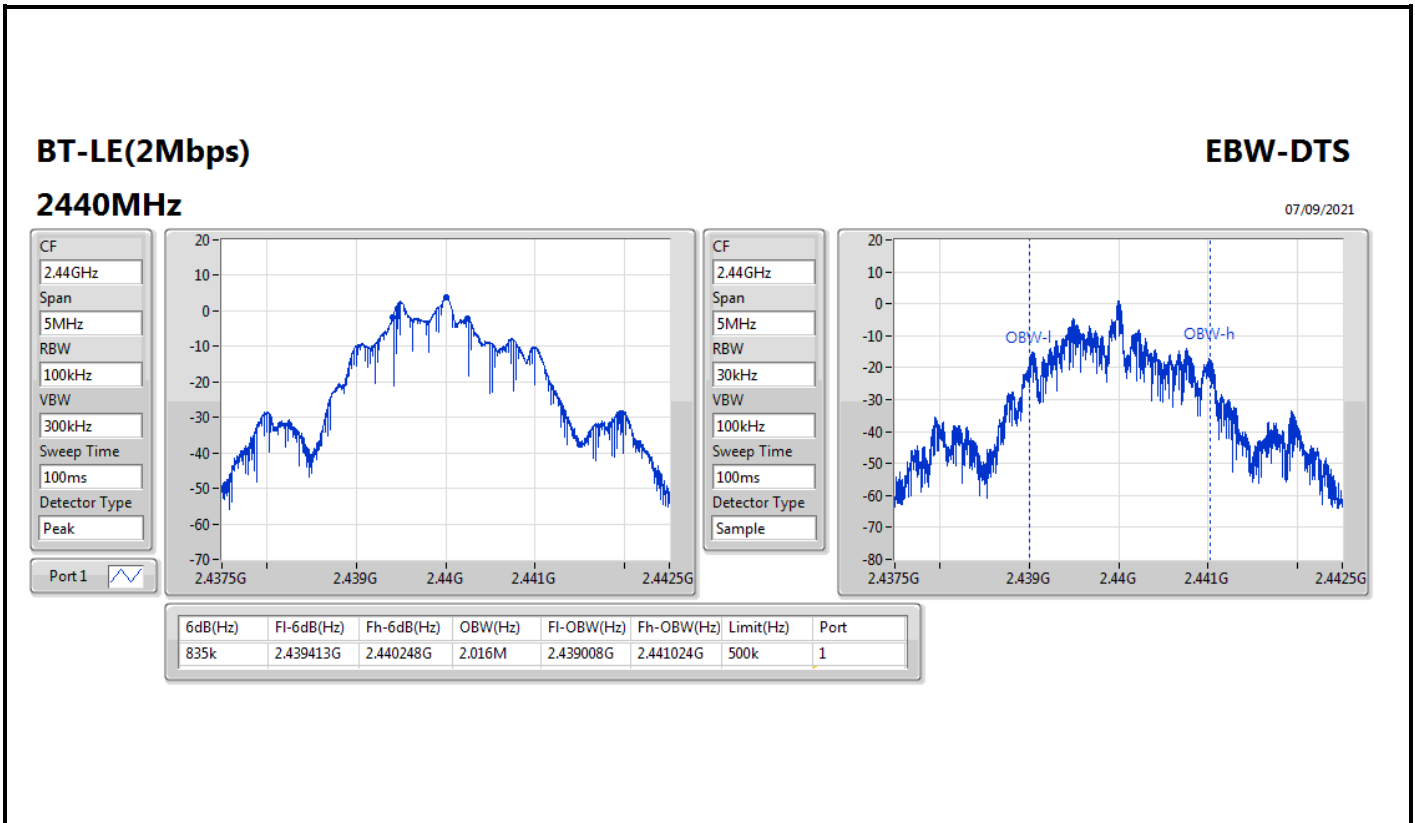
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	500k	695k	1.089M
2440MHz	Pass	500k	705k	1.092M
2480MHz	Pass	500k	693.75k	1.089M
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	500k	842.5k	2.026M
2440MHz	Pass	500k	835k	2.016M
2480MHz	Pass	500k	837.5k	2.039M

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)	1.28	0.00134
BT-LE(2Mbps)	3.09	0.00204



Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	3.39	1.28	30.00
2440MHz	Pass	3.39	0.41	30.00
2480MHz	Pass	3.39	0.35	30.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	3.39	2.87	30.00
2440MHz	Pass	3.39	3.09	30.00
2480MHz	Pass	3.39	2.19	30.00

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



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
BT-LE(1Mbps)	-9.62
BT-LE(2Mbps)	-15.20

RBW = 3kHz;



Result

Mode	Result	Gain (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	3.39	-9.62	8.00
2440MHz	Pass	3.39	-9.73	8.00
2480MHz	Pass	3.39	-11.53	8.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	3.39	-15.20	8.00
2440MHz	Pass	3.39	-15.67	8.00
2480MHz	Pass	3.39	-17.93	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;

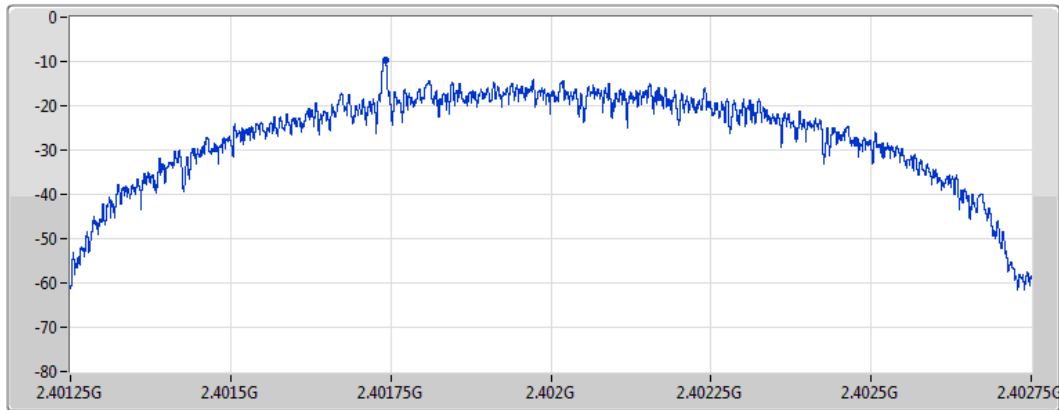
BT-LE(1Mbps)

PSD

2402MHz

07/09/2021

CF
2.402GHz
Span
1.5MHz
RBW
3kHz
VBW
10kHz
Sweep Time
632.18121us
Detector Type
Peak



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.62	-9.62	-9.62

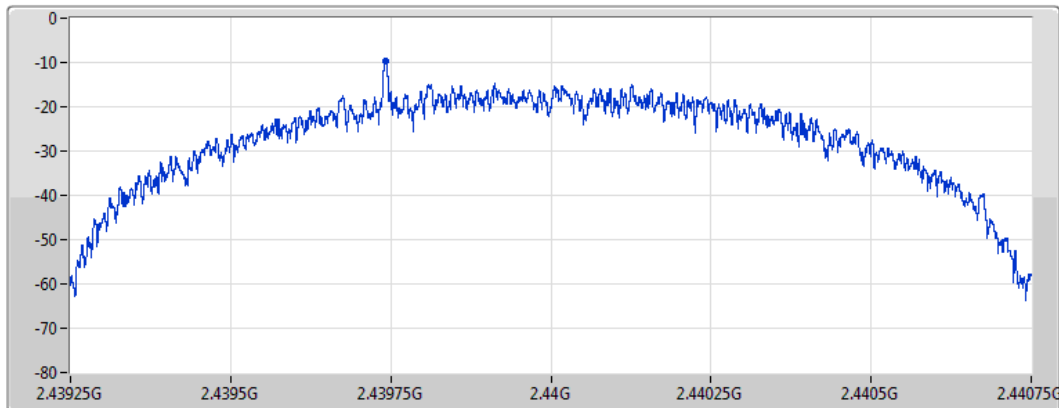
BT-LE(1Mbps)

PSD

2440MHz

08/09/2021

CF
2.44GHz
Span
1.5MHz
RBW
3kHz
VBW
10kHz
Sweep Time
632.18121us
Detector Type
Peak



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.73	-9.73	-9.73

BT-LE(1Mbps)

PSD

2480MHz

08/09/2021

CF
2.48GHz

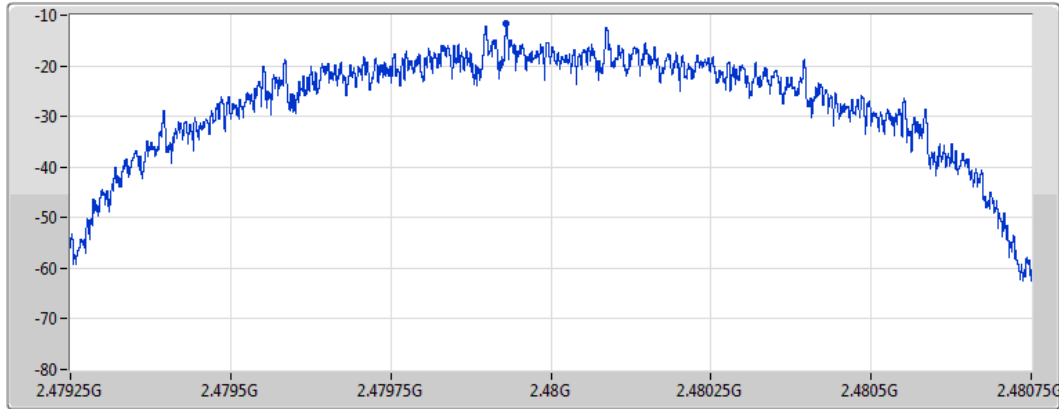
Span
1.5MHz

RBW
3kHz

VBW
10kHz

Sweep Time
632.18121us

Detector Type
Peak



Port 1 

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-11.53	-11.53	-11.53

BT-LE(2Mbps)

PSD

2402MHz

07/09/2021

CF
2.402GHz

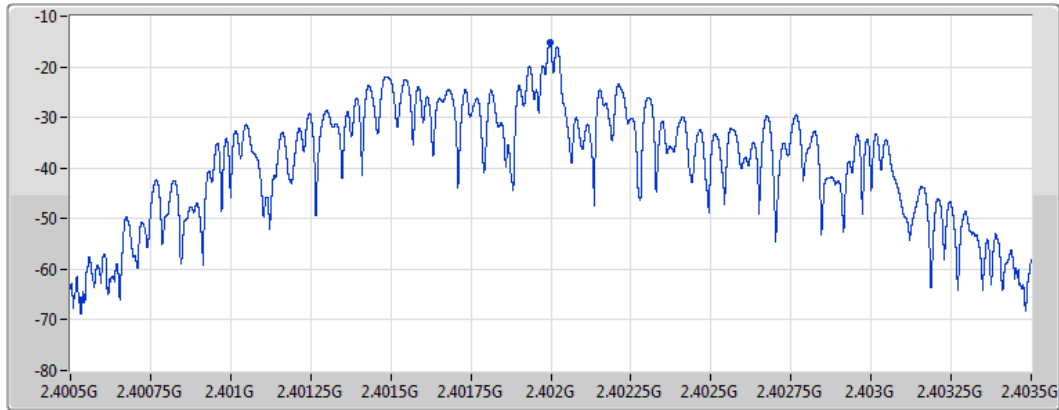
Span
3MHz

RBW
3kHz

VBW
10kHz

Sweep Time
632.01845us

Detector Type
Peak



Port 1 

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-15.20	-15.20	-15.20

BT-LE(2Mbps)

PSD

2440MHz

07/09/2021

CF
2.44GHz

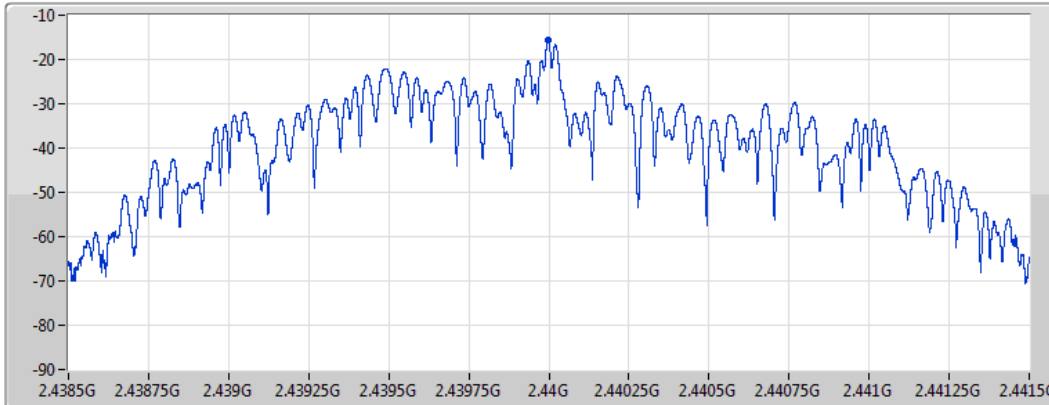
Span
3MHz


RBW
3kHz

VBW
10kHz

Sweep Time
632.01845us

Detector Type
Peak



Port 1 

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-15.67	-15.67	-15.67

BT-LE(2Mbps)

PSD

2480MHz

07/09/2021

CF
2.48GHz

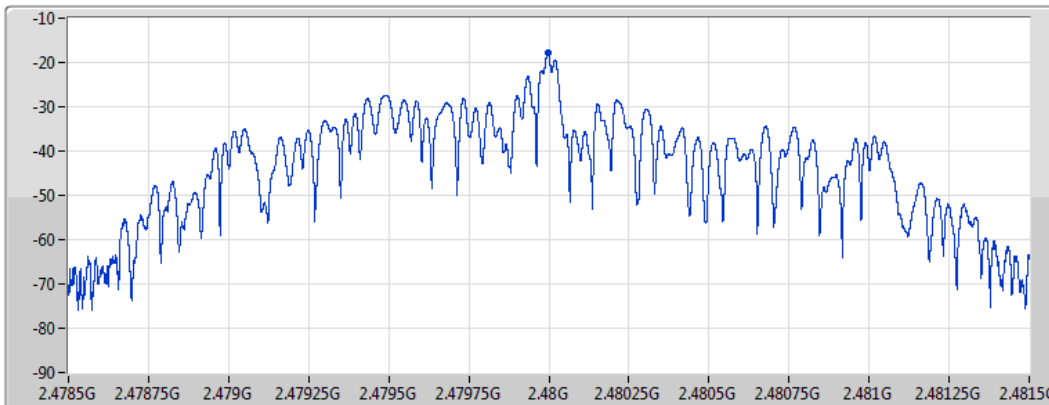
Span
3MHz


RBW
3kHz

VBW
10kHz

Sweep Time
632.01845us

Detector Type
Peak



Port 1 

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-17.93	-17.93	-17.93



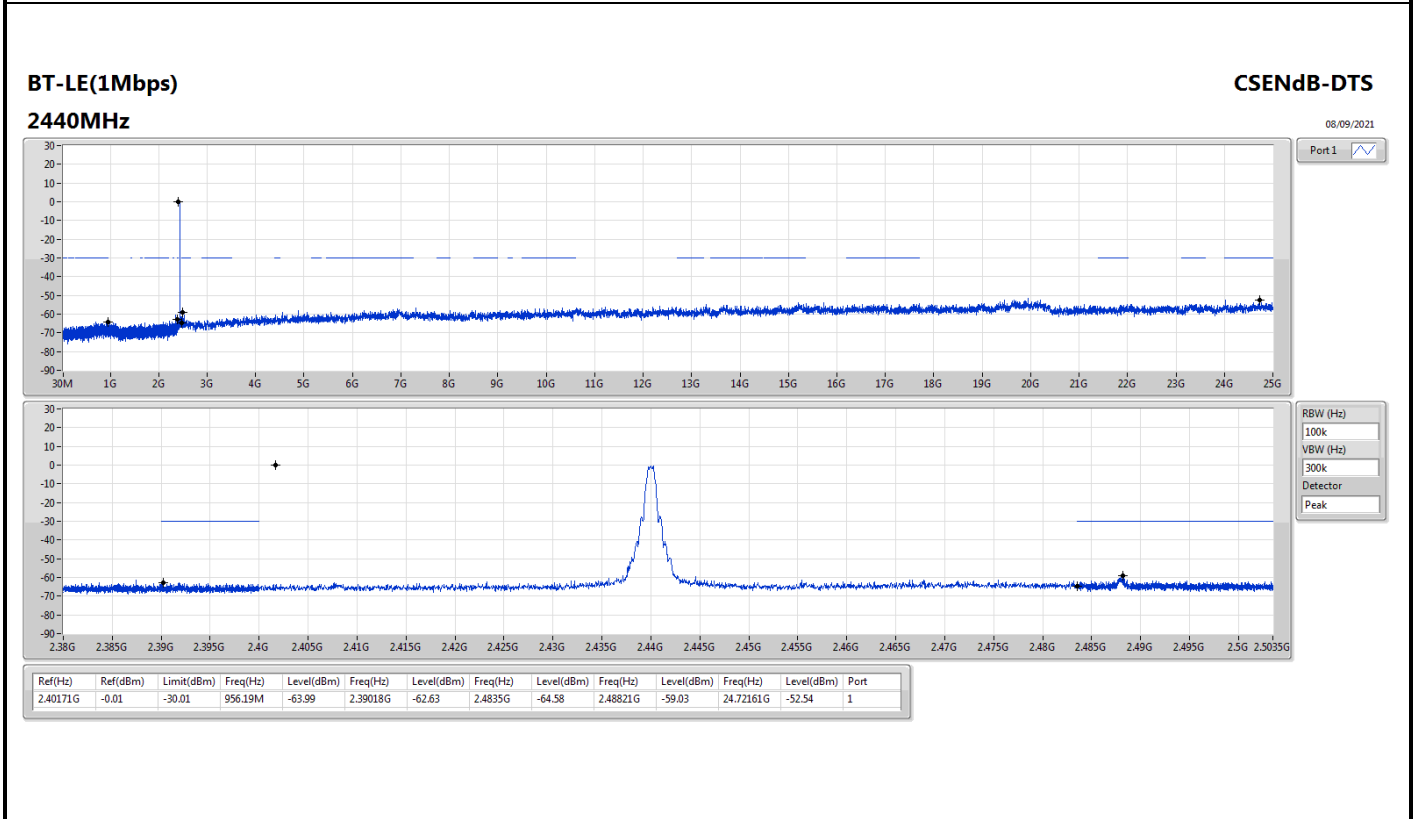
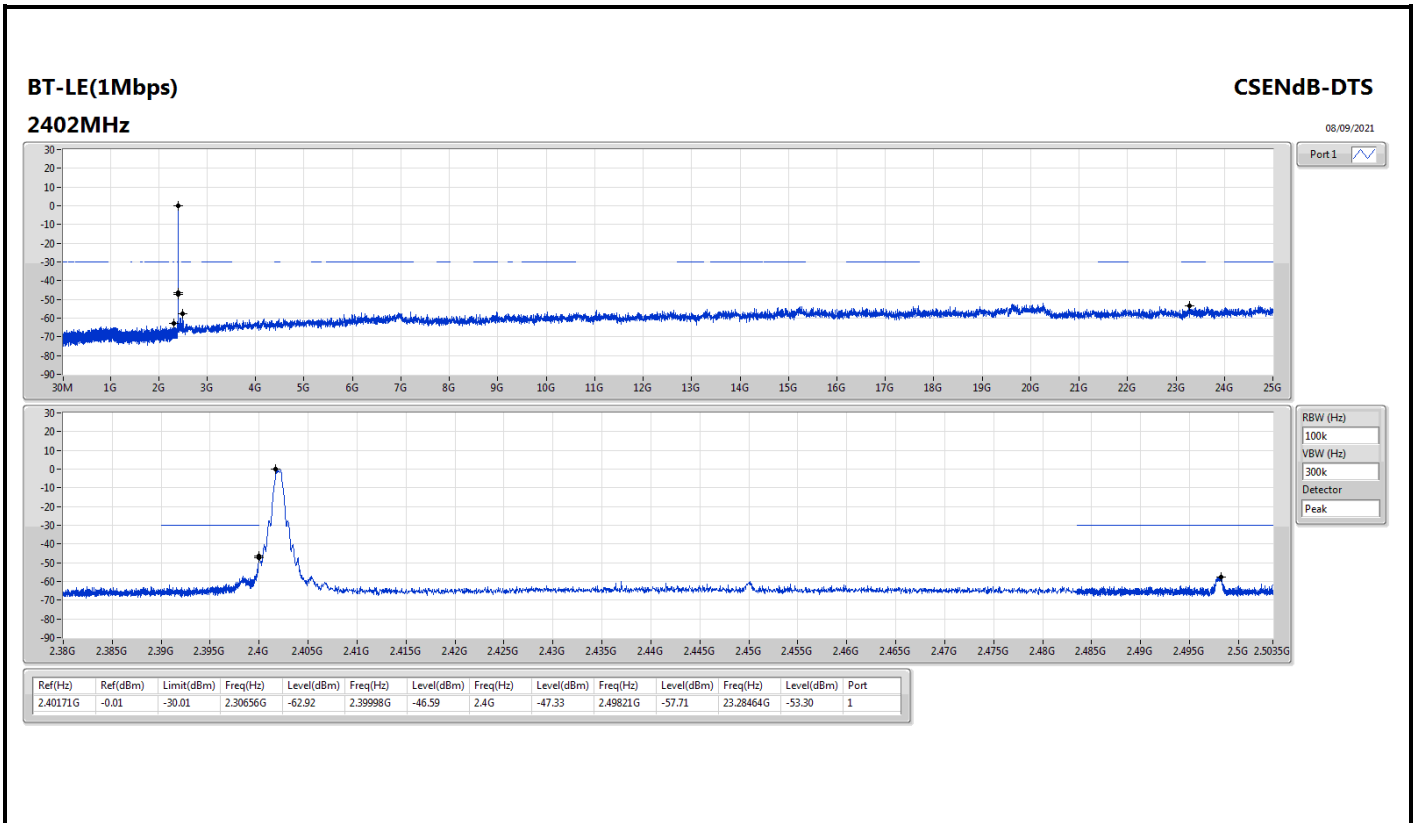
Summary

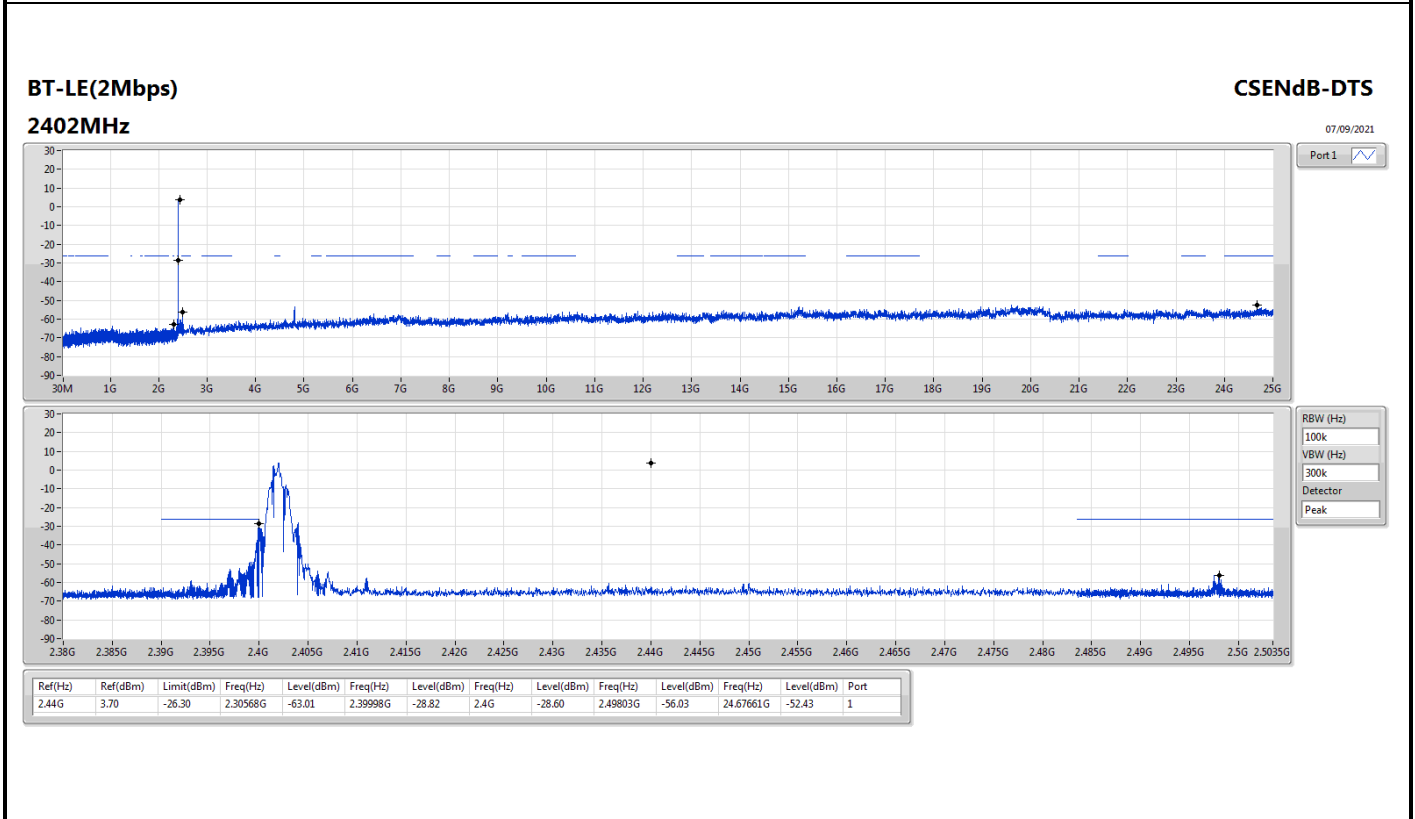
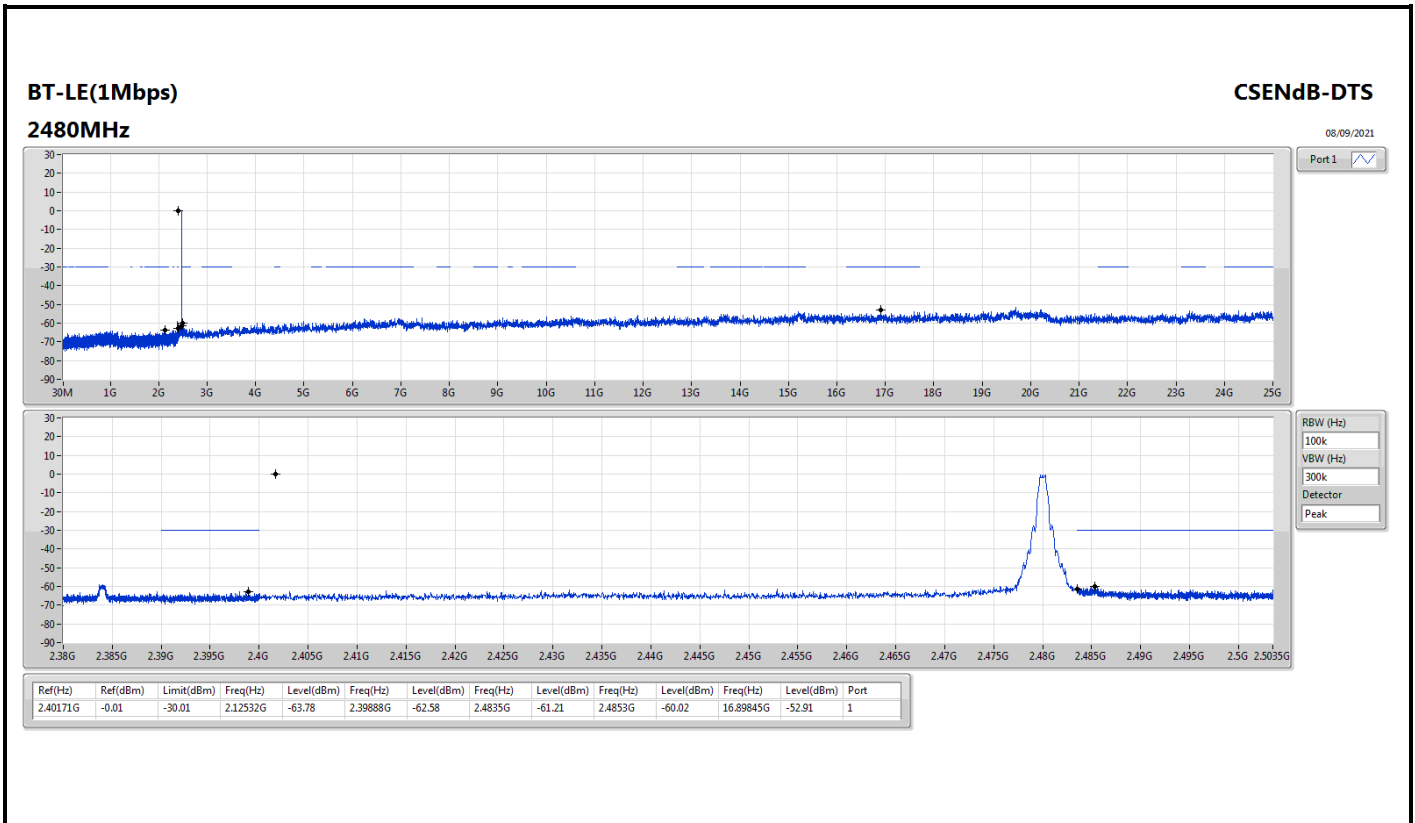
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	2.40171G	-0.01	-30.01	2.30656G	-62.92	2.39998G	-46.59	2.4G	-47.33	2.49821G	-57.71	23.28464G	-53.30	1
BT-LE(2Mbps)	Pass	2.44G	3.70	-26.30	2.30568G	-63.01	2.39998G	-28.82	2.4G	-28.60	2.49803G	-56.03	24.67661G	-52.43	1

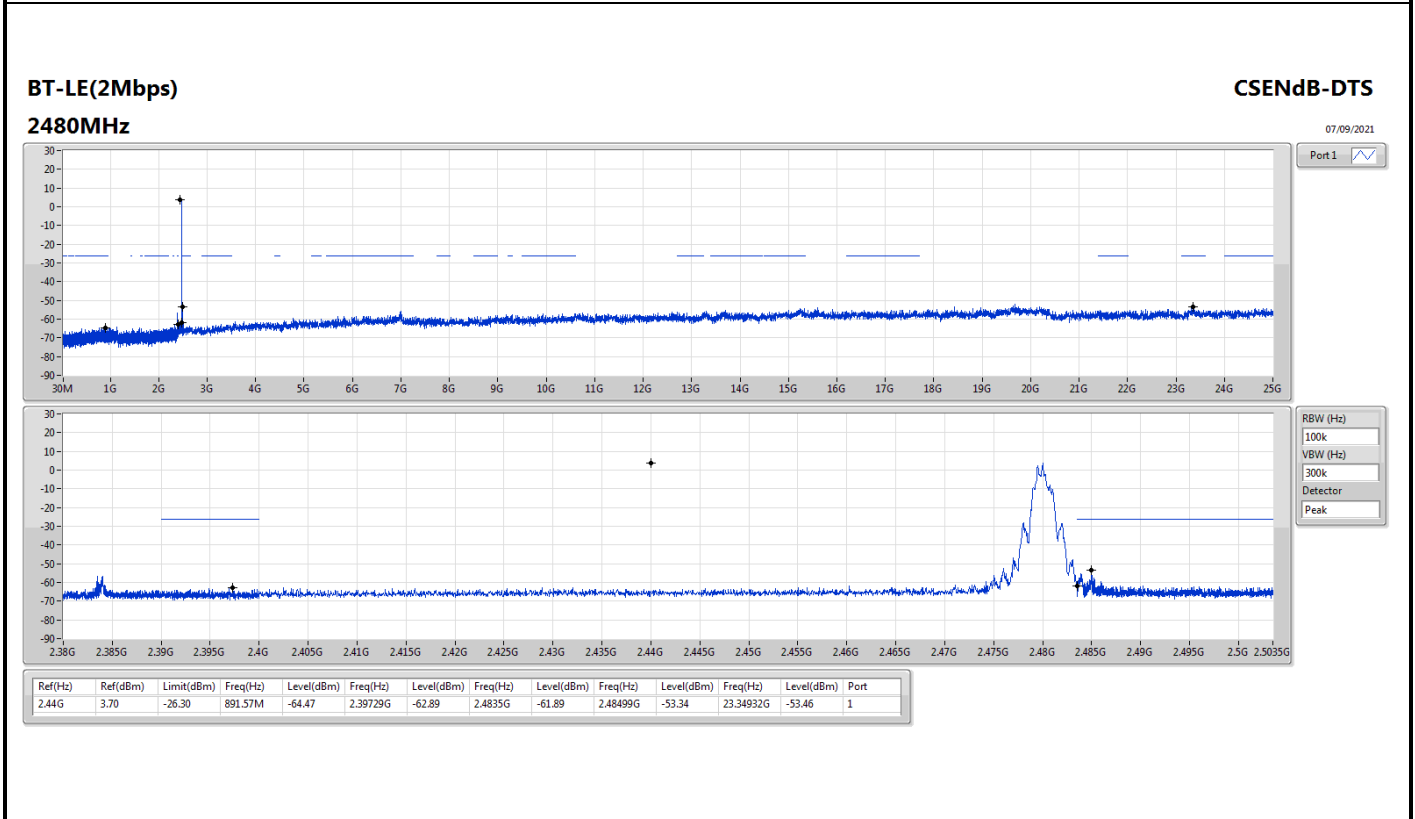
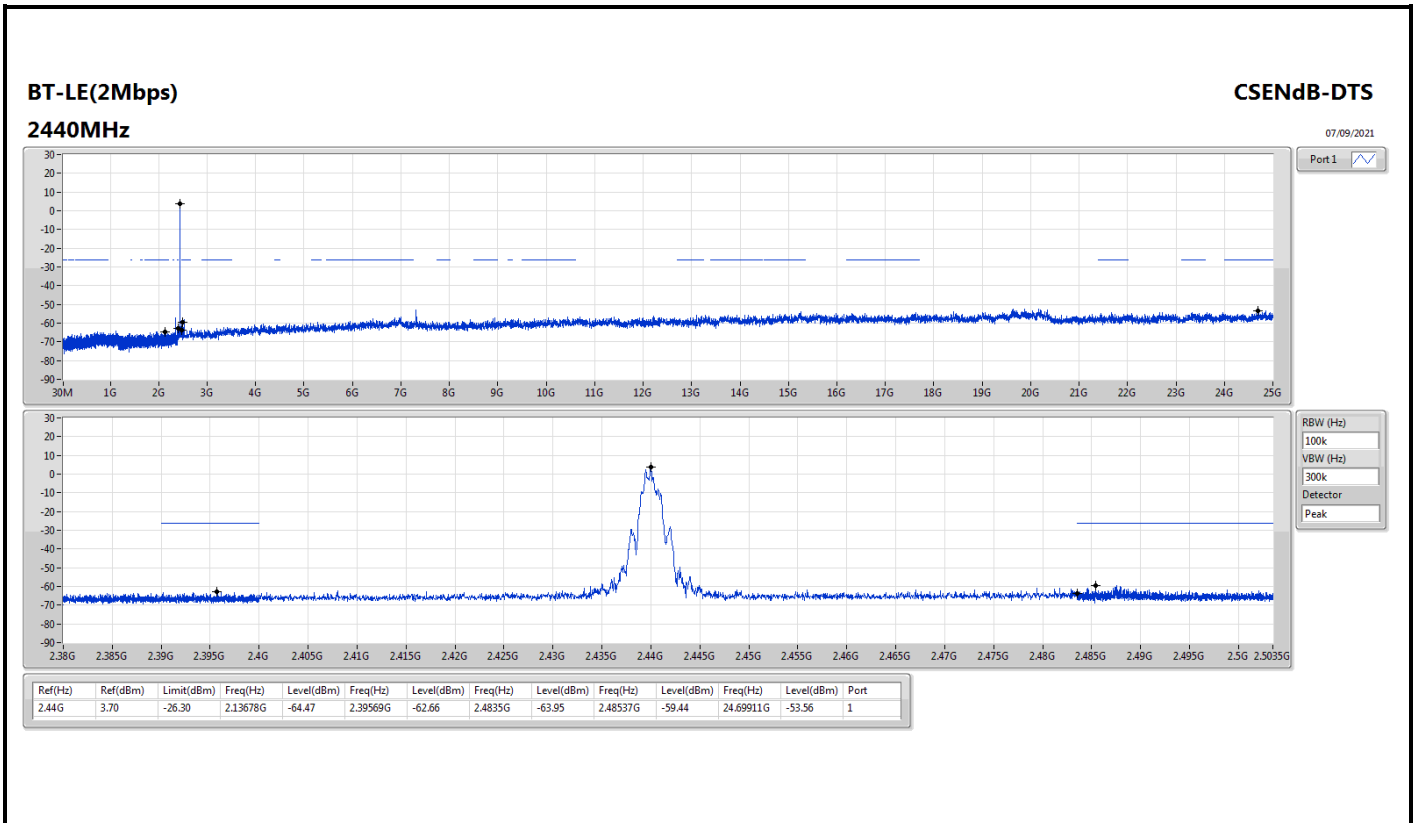


Result

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	2.40171G	-0.01	-30.01	2.30656G	-62.92	2.39998G	-46.59	2.4G	-47.33	2.49821G	-57.71	23.28464G	-53.30	1
2440MHz	Pass	2.40171G	-0.01	-30.01	956.19M	-63.99	2.39018G	-62.63	2.4835G	-64.58	2.48821G	-59.03	24.72161G	-52.54	1
2480MHz	Pass	2.40171G	-0.01	-30.01	2.12532G	-63.78	2.39888G	-62.58	2.4835G	-61.21	2.4853G	-60.02	16.89845G	-52.91	1
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.44G	3.70	-26.30	2.30568G	-63.01	2.39998G	-28.82	2.4G	-28.60	2.49803G	-56.03	24.67661G	-52.43	1
2440MHz	Pass	2.44G	3.70	-26.30	2.13678G	-64.47	2.39569G	-62.66	2.4835G	-63.95	2.48537G	-59.44	24.69911G	-53.56	1
2480MHz	Pass	2.44G	3.70	-26.30	891.57M	-64.47	2.39729G	-62.89	2.4835G	-61.89	2.48499G	-53.34	23.34932G	-53.46	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	57.16M	31.53	40.00	-8.47	3	Vertical	0	1.00	-

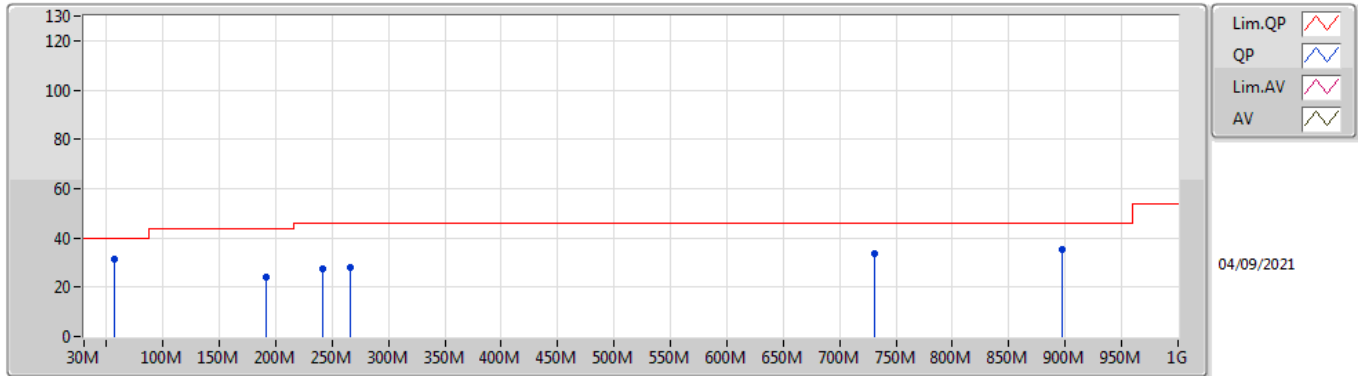


Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	PK	57.16M	31.53	40.00	-8.47	3	Vertical	0	1.00	-
2440MHz	Pass	PK	241.46M	27.37	46.00	-18.63	3	Vertical	0	1.00	-
2440MHz	Pass	PK	266.68M	27.89	46.00	-18.11	3	Vertical	0	1.00	-
2440MHz	Pass	PK	730.34M	33.48	46.00	-12.52	3	Vertical	0	1.00	-
2440MHz	Pass	PK	897.18M	35.49	46.00	-10.51	3	Vertical	0	1.00	-
2440MHz	Pass	PK	191.02M	23.83	43.50	-19.67	3	Vertical	0	1.00	-
2440MHz	Pass	PK	144.46M	29.61	43.50	-13.89	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	191.02M	32.02	43.50	-11.48	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	239.52M	30.28	46.00	-15.72	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	418M	30.29	46.00	-15.71	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	672.14M	32.84	46.00	-13.16	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	897.18M	36.02	46.00	-9.98	3	Horizontal	360	1.00	-

BT-LE(2Mbps)

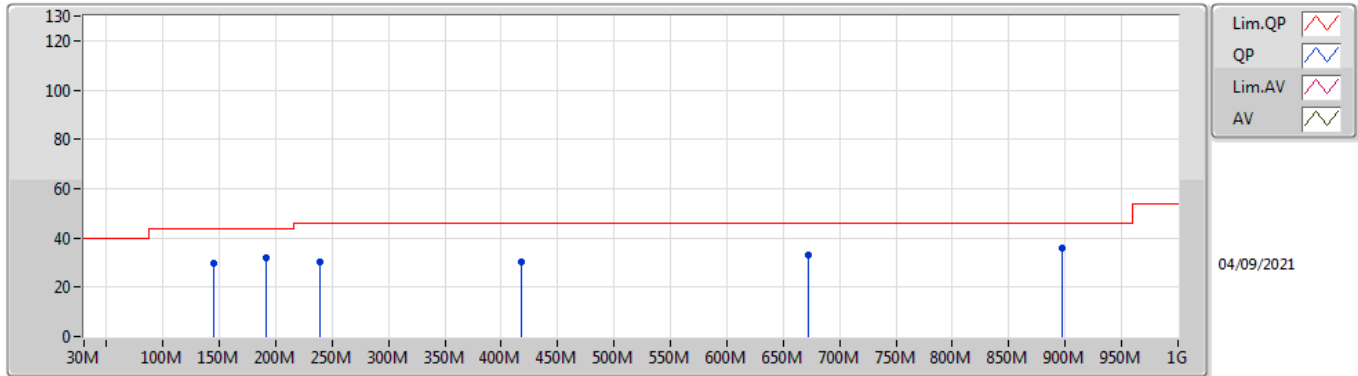
2440MHz_DC Power Supply



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	31.53	40.00	-8.47	-14.80	3	Vertical	0	1.00	-	46.33	11.83	1.12	27.75
PK	241.46M	27.37	46.00	-18.63	-8.33	3	Vertical	0	1.00	-	35.70	16.62	2.12	27.07
PK	266.68M	27.89	46.00	-18.11	-6.40	3	Vertical	0	1.00	-	34.29	18.41	2.22	27.03
PK	730.34M	33.48	46.00	-12.52	0.20	3	Vertical	0	1.00	-	33.28	24.68	3.66	28.14
PK	897.18M	35.49	46.00	-10.51	2.23	3	Vertical	0	1.00	-	33.26	25.64	4.10	27.51
PK	191.02M	23.83	43.50	-19.67	-11.20	3	Vertical	0	1.00	-	35.03	14.26	1.92	27.38

BT-LE(2Mbps)

2440MHz_DC Power Supply



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	144.46M	29.61	43.50	-13.89	-9.95	3	Horizontal	360	1.00	-	39.56	15.96	1.67	27.58
PK	191.02M	32.02	43.50	-11.48	-11.20	3	Horizontal	360	1.00	-	43.22	14.26	1.92	27.38
PK	239.52M	30.28	46.00	-15.72	-8.55	3	Horizontal	360	1.00	-	38.83	16.42	2.11	27.08
PK	418M	30.29	46.00	-15.71	-3.31	3	Horizontal	360	1.00	-	33.60	21.77	2.80	27.88
PK	672.14M	32.84	46.00	-13.16	-0.51	3	Horizontal	360	1.00	-	33.35	24.19	3.52	28.22
PK	897.18M	36.02	46.00	-9.98	2.23	3	Horizontal	360	1.00	-	33.79	25.64	4.10	27.51



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	4.95999G	48.86	54.00	-5.14	3	Vertical	151	1.33	-
BT-LE(2Mbps)	Pass	AV	4.96002G	51.13	54.00	-2.87	3	Vertical	249	1.30	-



Result

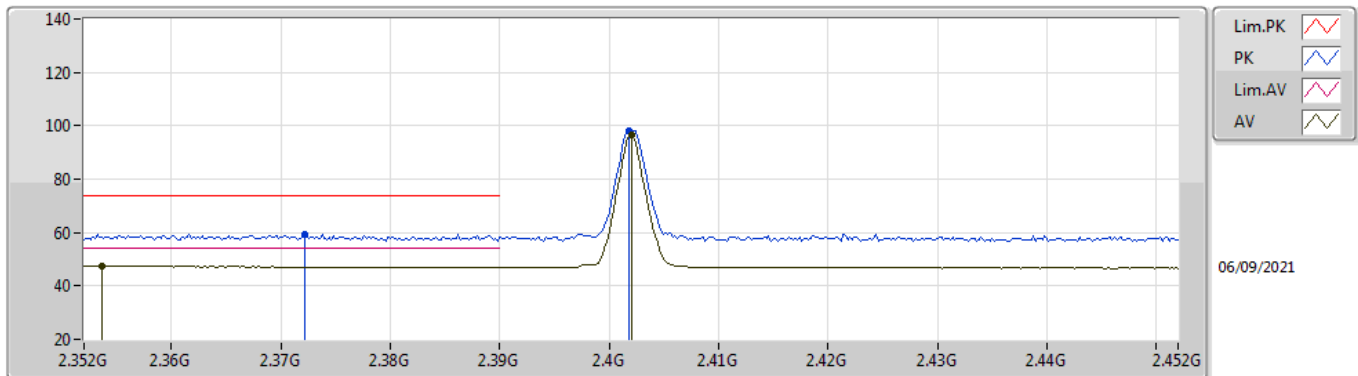
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3536G	47.30	54.00	-6.70	3	Vertical	301	2.46	-
2402MHz	Pass	AV	2.402G	96.45	Inf	-Inf	3	Vertical	301	2.46	-
2402MHz	Pass	PK	2.3722G	59.55	74.00	-14.45	3	Vertical	301	2.46	-
2402MHz	Pass	PK	2.4018G	98.05	Inf	-Inf	3	Vertical	301	2.46	-
2402MHz	Pass	AV	2.3562G	47.35	54.00	-6.65	3	Horizontal	46	1.00	-
2402MHz	Pass	AV	2.402G	93.75	Inf	-Inf	3	Horizontal	46	1.00	-
2402MHz	Pass	PK	2.3716G	59.79	74.00	-14.21	3	Horizontal	46	1.00	-
2402MHz	Pass	PK	2.4018G	95.37	Inf	-Inf	3	Horizontal	46	1.00	-
2402MHz	Pass	AV	4.80405G	35.13	54.00	-18.87	3	Vertical	152	1.69	-
2402MHz	Pass	PK	4.80353G	47.03	74.00	-26.97	3	Vertical	152	1.69	-
2402MHz	Pass	AV	4.80424G	32.01	54.00	-21.99	3	Horizontal	344	1.00	-
2402MHz	Pass	PK	4.80441G	45.13	74.00	-28.87	3	Horizontal	344	1.00	-
2440MHz	Pass	AV	2.3416G	47.35	54.00	-6.65	3	Vertical	191	1.76	-
2440MHz	Pass	AV	2.44G	95.45	Inf	-Inf	3	Vertical	191	1.76	-
2440MHz	Pass	AV	2.4872G	46.82	54.00	-7.18	3	Vertical	191	1.76	-
2440MHz	Pass	PK	2.3704G	59.67	74.00	-14.33	3	Vertical	191	1.76	-
2440MHz	Pass	PK	2.4396G	97.03	Inf	-Inf	3	Vertical	191	1.76	-
2440MHz	Pass	PK	2.4984G	59.44	74.00	-14.56	3	Vertical	191	1.76	-
2440MHz	Pass	AV	2.3436G	47.41	54.00	-6.59	3	Horizontal	48	1.13	-
2440MHz	Pass	AV	2.44G	95.09	Inf	-Inf	3	Horizontal	48	1.13	-
2440MHz	Pass	AV	2.4972G	46.82	54.00	-7.18	3	Horizontal	48	1.13	-
2440MHz	Pass	PK	2.3792G	59.88	74.00	-14.12	3	Horizontal	48	1.13	-
2440MHz	Pass	PK	2.4404G	96.68	Inf	-Inf	3	Horizontal	48	1.13	-
2440MHz	Pass	PK	2.4952G	58.28	74.00	-15.72	3	Horizontal	48	1.13	-
2440MHz	Pass	AV	4.88001G	44.85	54.00	-9.15	3	Vertical	151	1.38	-
2440MHz	Pass	PK	4.87948G	52.41	74.00	-21.59	3	Vertical	151	1.38	-
2440MHz	Pass	AV	4.88002G	39.05	54.00	-14.95	3	Horizontal	127	2.09	-
2440MHz	Pass	PK	4.87954G	48.97	74.00	-25.03	3	Horizontal	127	2.09	-
2480MHz	Pass	AV	2.48G	95.70	Inf	-Inf	3	Vertical	191	1.92	-
2480MHz	Pass	AV	2.4835G	47.75	54.00	-6.25	3	Vertical	191	1.92	-
2480MHz	Pass	PK	2.4798G	97.24	Inf	-Inf	3	Vertical	191	1.92	-
2480MHz	Pass	PK	2.498G	59.14	74.00	-14.86	3	Vertical	191	1.92	-
2480MHz	Pass	AV	2.48G	94.27	Inf	-Inf	3	Horizontal	50	1.00	-
2480MHz	Pass	AV	2.4835G	47.55	54.00	-6.45	3	Horizontal	50	1.00	-
2480MHz	Pass	PK	2.4802G	95.85	Inf	-Inf	3	Horizontal	50	1.00	-
2480MHz	Pass	PK	2.4836G	59.21	74.00	-14.79	3	Horizontal	50	1.00	-
2480MHz	Pass	AV	4.95999G	48.86	54.00	-5.14	3	Vertical	151	1.33	-
2480MHz	Pass	PK	4.96054G	55.38	74.00	-18.62	3	Vertical	151	1.33	-
2480MHz	Pass	AV	4.96001G	41.34	54.00	-12.66	3	Horizontal	349	2.04	-
2480MHz	Pass	PK	4.95949G	50.40	74.00	-23.60	3	Horizontal	349	2.04	-
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3538G	49.48	54.00	-4.52	3	Vertical	177	1.48	-
2402MHz	Pass	AV	2.402G	92.17	Inf	-Inf	3	Vertical	177	1.48	-
2402MHz	Pass	PK	2.367G	60.02	74.00	-13.98	3	Vertical	177	1.48	-
2402MHz	Pass	PK	2.402G	96.39	Inf	-Inf	3	Vertical	177	1.48	-
2402MHz	Pass	AV	2.3656G	49.21	54.00	-4.79	3	Horizontal	247	1.49	-
2402MHz	Pass	AV	2.402G	88.82	Inf	-Inf	3	Horizontal	247	1.49	-
2402MHz	Pass	PK	2.3622G	59.43	74.00	-14.57	3	Horizontal	247	1.49	-
2402MHz	Pass	PK	2.402G	93.00	Inf	-Inf	3	Horizontal	247	1.49	-
2402MHz	Pass	AV	4.80401G	47.08	54.00	-6.92	3	Vertical	176	1.50	-
2402MHz	Pass	PK	4.80299G	52.71	74.00	-21.29	3	Vertical	176	1.50	-
2402MHz	Pass	AV	4.804G	44.47	54.00	-9.53	3	Horizontal	160	1.00	-
2402MHz	Pass	PK	4.80305G	50.71	74.00	-23.29	3	Horizontal	160	1.00	-
2440MHz	Pass	AV	2.3412G	49.24	54.00	-4.76	3	Vertical	225	1.10	-
2440MHz	Pass	AV	2.44G	93.93	Inf	-Inf	3	Vertical	225	1.10	-
2440MHz	Pass	AV	2.4928G	48.65	54.00	-5.35	3	Vertical	225	1.10	-
2440MHz	Pass	PK	2.3468G	59.33	74.00	-14.67	3	Vertical	225	1.10	-
2440MHz	Pass	PK	2.44G	98.12	Inf	-Inf	3	Vertical	225	1.10	-
2440MHz	Pass	PK	2.4976G	58.41	74.00	-15.59	3	Vertical	225	1.10	-
2440MHz	Pass	AV	2.3404G	49.61	54.00	-4.39	3	Horizontal	62	1.86	-



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	93.59	Inf	-Inf	3	Horizontal	62	1.86	-
2440MHz	Pass	AV	2.4992G	48.96	54.00	-5.04	3	Horizontal	62	1.86	-
2440MHz	Pass	PK	2.3668G	59.31	74.00	-14.69	3	Horizontal	62	1.86	-
2440MHz	Pass	PK	2.44G	97.85	Inf	-Inf	3	Horizontal	62	1.86	-
2440MHz	Pass	PK	2.4872G	58.59	74.00	-15.41	3	Horizontal	62	1.86	-
2440MHz	Pass	AV	4.88006G	49.88	54.00	-4.12	3	Vertical	176	1.50	-
2440MHz	Pass	PK	4.88009G	55.83	74.00	-18.17	3	Vertical	176	1.50	-
2440MHz	Pass	AV	4.88012G	46.15	54.00	-7.85	3	Horizontal	194	1.11	-
2440MHz	Pass	PK	4.8789G	51.96	74.00	-22.04	3	Horizontal	194	1.11	-
2480MHz	Pass	AV	2.48G	91.95	Inf	-Inf	3	Vertical	159	1.49	-
2480MHz	Pass	AV	2.4835G	49.05	54.00	-4.95	3	Vertical	159	1.49	-
2480MHz	Pass	PK	2.48G	96.11	Inf	-Inf	3	Vertical	159	1.49	-
2480MHz	Pass	PK	2.4888G	58.69	74.00	-15.31	3	Vertical	159	1.49	-
2480MHz	Pass	AV	2.48G	92.63	Inf	-Inf	3	Horizontal	62	1.59	-
2480MHz	Pass	AV	2.4835G	48.64	54.00	-5.36	3	Horizontal	62	1.59	-
2480MHz	Pass	PK	2.48G	96.76	Inf	-Inf	3	Horizontal	62	1.59	-
2480MHz	Pass	PK	2.4844G	59.06	74.00	-14.94	3	Horizontal	62	1.59	-
2480MHz	Pass	AV	4.96002G	51.13	54.00	-2.87	3	Vertical	249	1.30	-
2480MHz	Pass	PK	4.96006G	57.36	74.00	-16.64	3	Vertical	249	1.30	-
2480MHz	Pass	AV	4.96004G	46.63	54.00	-7.37	3	Horizontal	349	1.00	-
2480MHz	Pass	PK	4.95999G	53.23	74.00	-20.77	3	Horizontal	349	1.00	-

BT-LE(1Mbps)

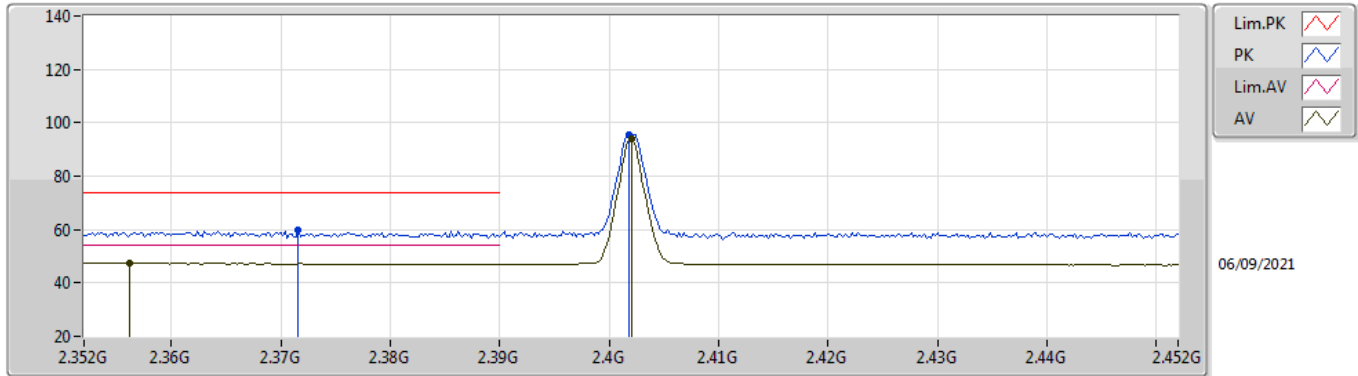
2402MHz_TX



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	2.3536G	47.30	54.00	-6.70	35.03	3	Vertical	301	2.46	-	12.27	27.79	7.24	-
AV	2.402G	96.45	Inf	-Inf	34.95	3	Vertical	301	2.46	-	61.50	27.69	7.26	-
PK	2.3722G	59.55	74.00	-14.45	35.01	3	Vertical	301	2.46	-	24.54	27.76	7.25	-
PK	2.4018G	98.05	Inf	-Inf	34.95	3	Vertical	301	2.46	-	63.10	27.69	7.26	-

BT-LE(1Mbps)

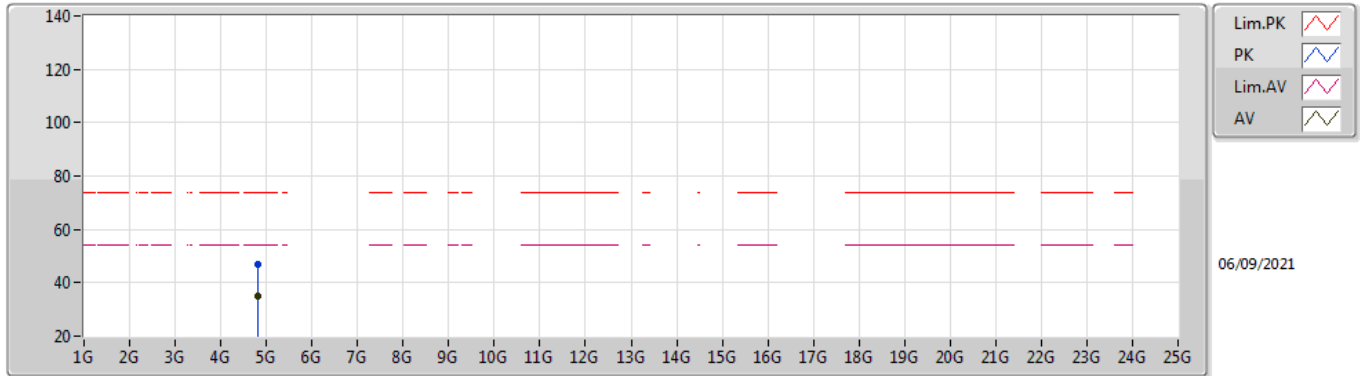
2402MHz_TX



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	2.3562G	47.35	54.00	-6.65	35.03	3	Horizontal	46	1.00	-	12.32	27.79	7.24	-
AV	2.402G	93.75	Inf	-Inf	34.95	3	Horizontal	46	1.00	-	58.80	27.69	7.26	-
PK	2.3716G	59.79	74.00	-14.21	35.01	3	Horizontal	46	1.00	-	24.78	27.76	7.25	-
PK	2.4018G	95.37	Inf	-Inf	34.95	3	Horizontal	46	1.00	-	60.42	27.69	7.26	-

BT-LE(1Mbps)

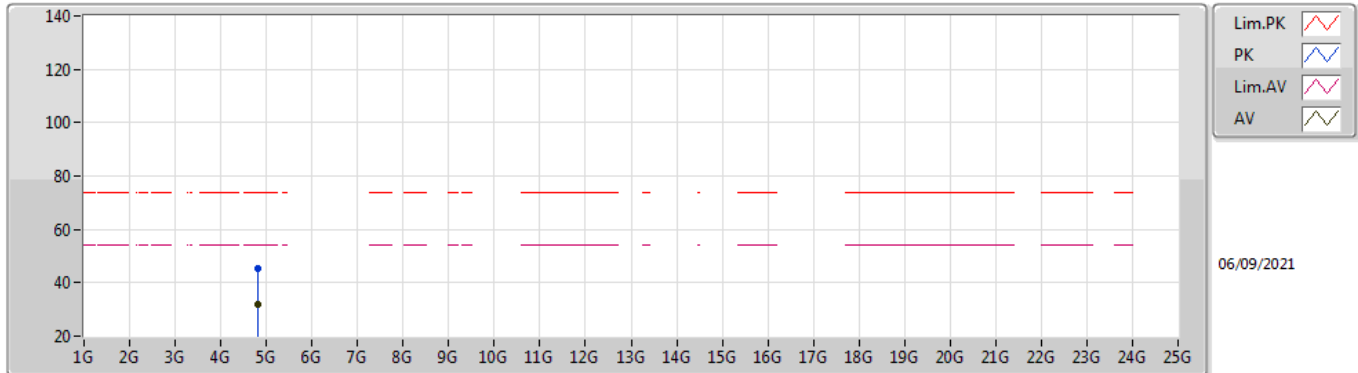
2402MHz_TX



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	4.80405G	35.13	54.00	-18.87	5.72	3	Vertical	152	1.69	-	29.41	31.11	8.90	34.29
PK	4.80353G	47.03	74.00	-26.97	5.72	3	Vertical	152	1.69	-	41.31	31.11	8.90	34.29

BT-LE(1Mbps)

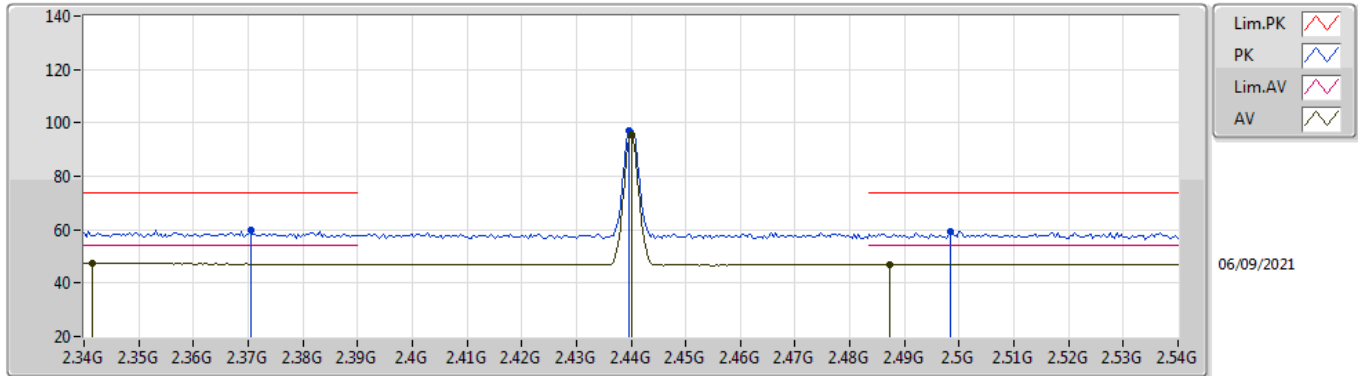
2402MHz_TX



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	4.80424G	32.01	54.00	-21.99	5.72	3	Horizontal	344	1.00	-	26.29	31.11	8.90	34.29
PK	4.80441G	45.13	74.00	-28.87	5.72	3	Horizontal	344	1.00	-	39.41	31.11	8.90	34.29

BT-LE(1Mbps)

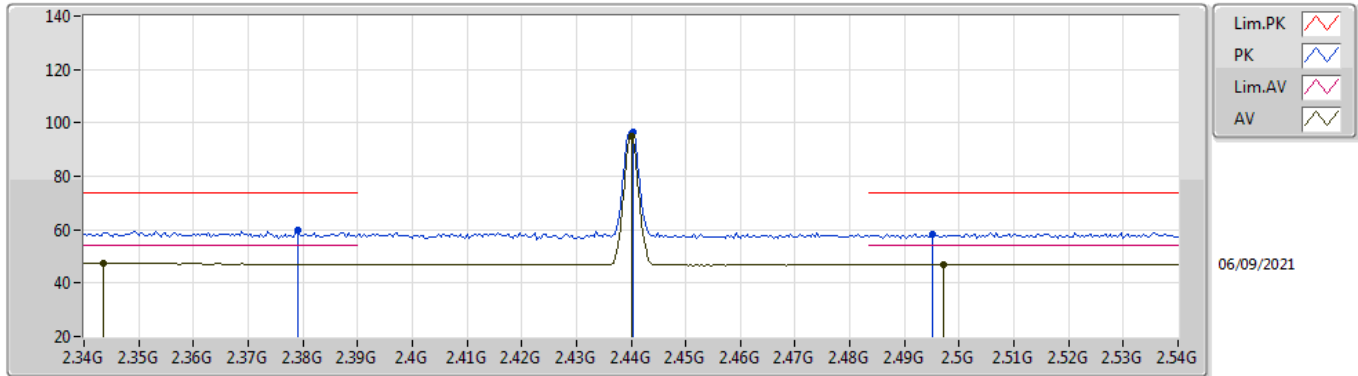
2440MHz_TX



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	2.3416G	47.35	54.00	-6.65	35.05	3	Vertical	191	1.76	-	12.30	27.82	7.23	-
AV	2.44G	95.45	Inf	-Inf	34.75	3	Vertical	191	1.76	-	60.70	27.46	7.29	-
AV	2.4872G	46.82	54.00	-7.18	34.73	3	Vertical	191	1.76	-	12.09	27.40	7.33	-
PK	2.3704G	59.67	74.00	-14.33	35.01	3	Vertical	191	1.76	-	24.66	27.76	7.25	-
PK	2.4396G	97.03	Inf	-Inf	34.75	3	Vertical	191	1.76	-	62.28	27.46	7.29	-
PK	2.4984G	59.44	74.00	-14.56	34.74	3	Vertical	191	1.76	-	24.70	27.40	7.34	-

BT-LE(1Mbps)

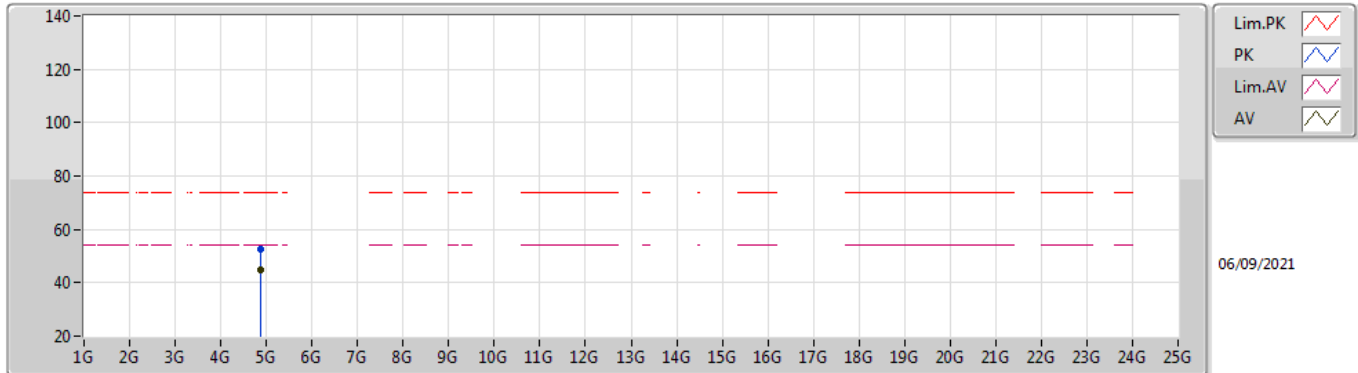
2440MHz_TX



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	2.3436G	47.41	54.00	-6.59	35.04	3	Horizontal	48	1.13	-	12.37	27.81	7.23	-
AV	2.44G	95.09	Inf	-Inf	34.75	3	Horizontal	48	1.13	-	60.34	27.46	7.29	-
AV	2.4972G	46.82	54.00	-7.18	34.74	3	Horizontal	48	1.13	-	12.08	27.40	7.34	-
PK	2.3792G	59.88	74.00	-14.12	34.99	3	Horizontal	48	1.13	-	24.89	27.74	7.25	-
PK	2.4404G	96.68	Inf	-Inf	34.75	3	Horizontal	48	1.13	-	61.93	27.46	7.29	-
PK	2.4952G	58.28	74.00	-15.72	34.74	3	Horizontal	48	1.13	-	23.54	27.40	7.34	-

BT-LE(1Mbps)

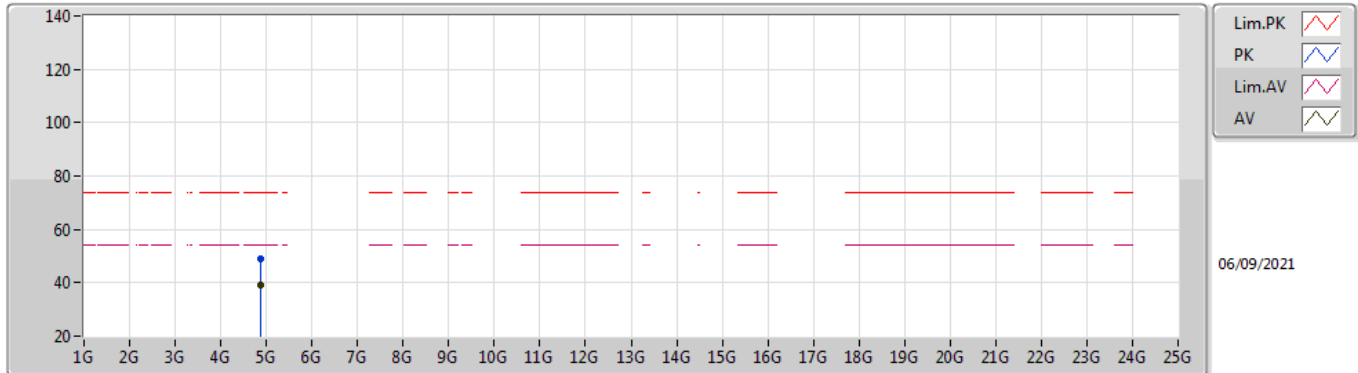
2440MHz_TX



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	4.88001G	44.85	54.00	-9.15	5.90	3	Vertical	151	1.38	-	38.95	31.20	8.96	34.26
PK	4.87948G	52.41	74.00	-21.59	5.90	3	Vertical	151	1.38	-	46.51	31.20	8.96	34.26

BT-LE(1Mbps)

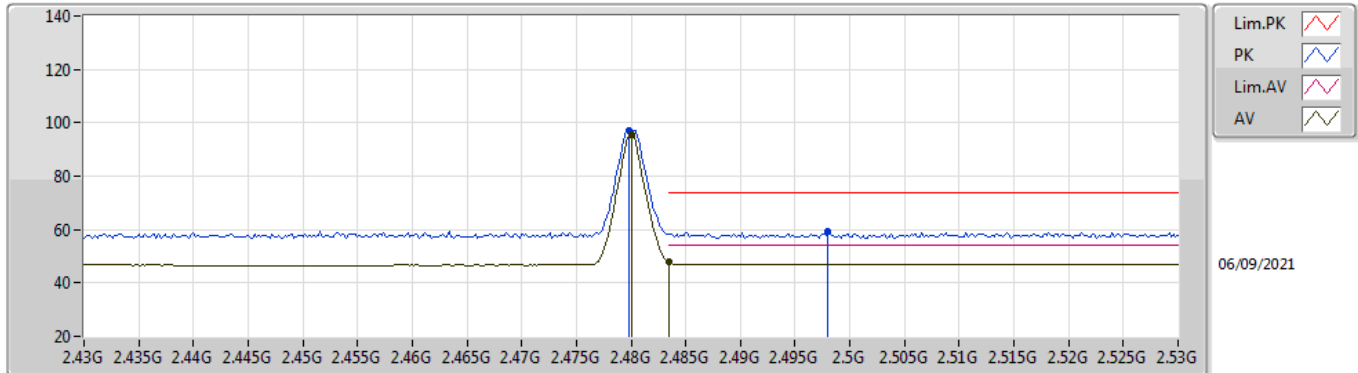
2440MHz_TX



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	4.88002G	39.05	54.00	-14.95	5.90	3	Horizontal	127	2.09	-	33.15	31.20	8.96	34.26
PK	4.87954G	48.97	74.00	-25.03	5.90	3	Horizontal	127	2.09	-	43.07	31.20	8.96	34.26

BT-LE(1Mbps)

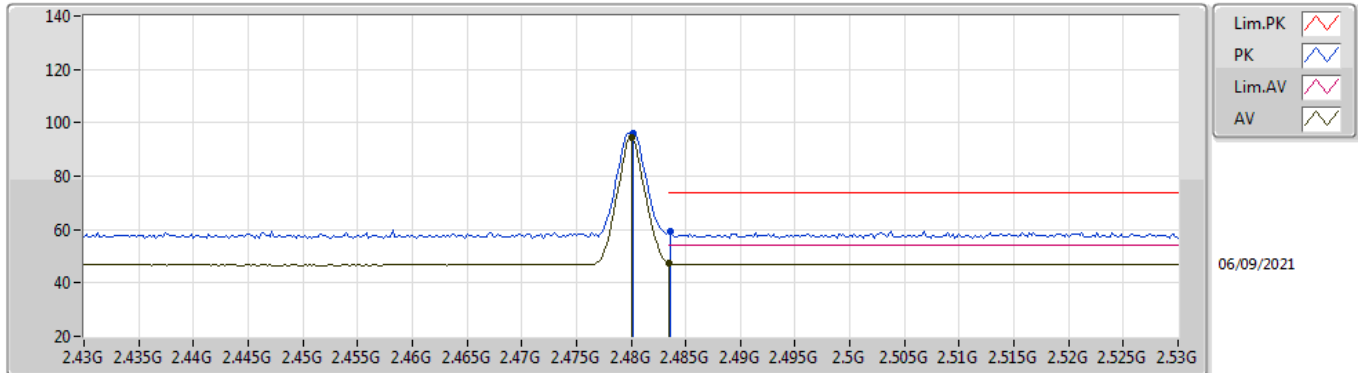
2480MHz_TX



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	95.70	Inf	-Inf	34.72	3	Vertical	191	1.92	-	60.98	27.40	7.32	-
AV	2.4835G	47.75	54.00	-6.25	34.73	3	Vertical	191	1.92	-	13.02	27.40	7.33	-
PK	2.4798G	97.24	Inf	-Inf	34.72	3	Vertical	191	1.92	-	62.52	27.40	7.32	-
PK	2.498G	59.14	74.00	-14.86	34.74	3	Vertical	191	1.92	-	24.40	27.40	7.34	-

BT-LE(1Mbps)

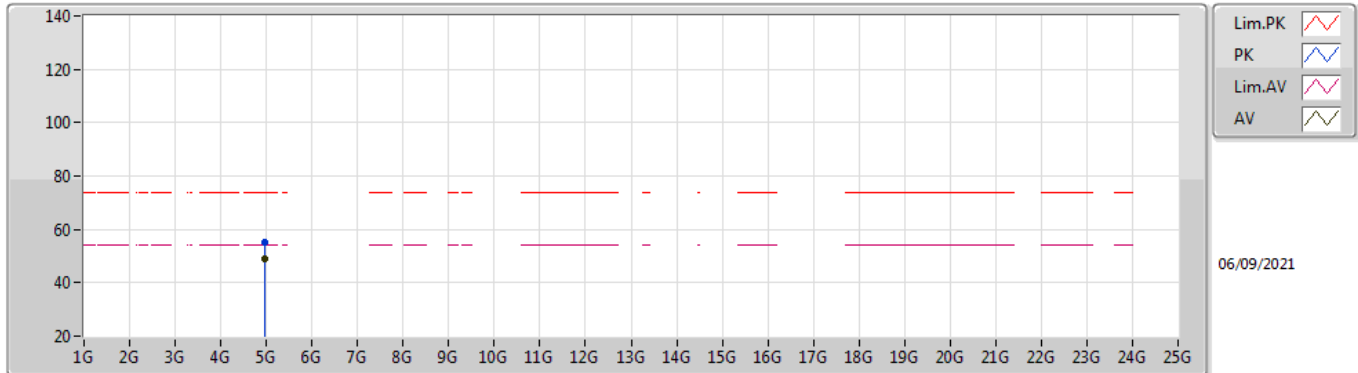
2480MHz_TX



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	94.27	Inf	-Inf	34.72	3	Horizontal	50	1.00	-	59.55	27.40	7.32	-
AV	2.4835G	47.55	54.00	-6.45	34.73	3	Horizontal	50	1.00	-	12.82	27.40	7.33	-
PK	2.4802G	95.85	Inf	-Inf	34.72	3	Horizontal	50	1.00	-	61.13	27.40	7.32	-
PK	2.4836G	59.21	74.00	-14.79	34.73	3	Horizontal	50	1.00	-	24.48	27.40	7.33	-

BT-LE(1Mbps)

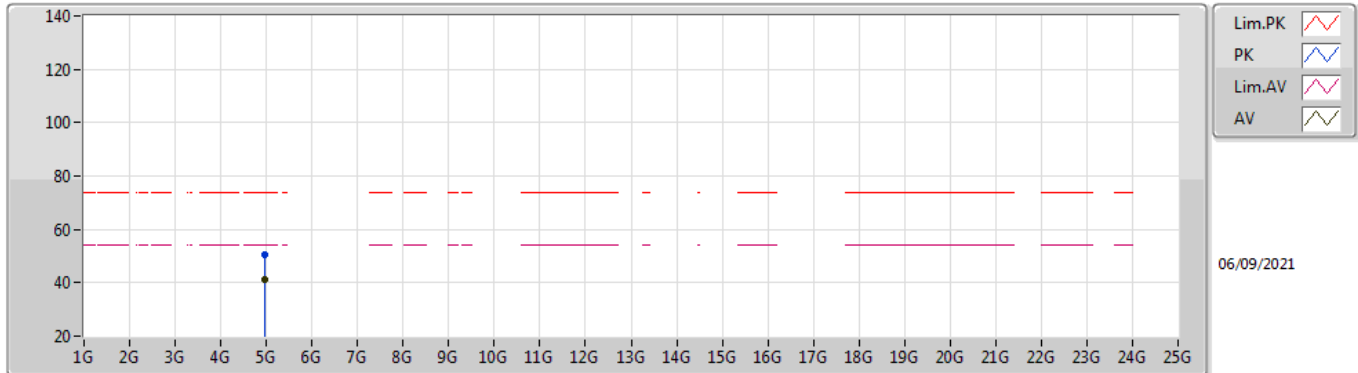
2480MHz_TX



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	4.95999G	48.86	54.00	-5.14	6.21	3	Vertical	151	1.33	-	42.65	31.42	9.02	34.23
PK	4.96054G	55.38	74.00	-18.62	6.21	3	Vertical	151	1.33	-	49.17	31.42	9.02	34.23

BT-LE(1Mbps)

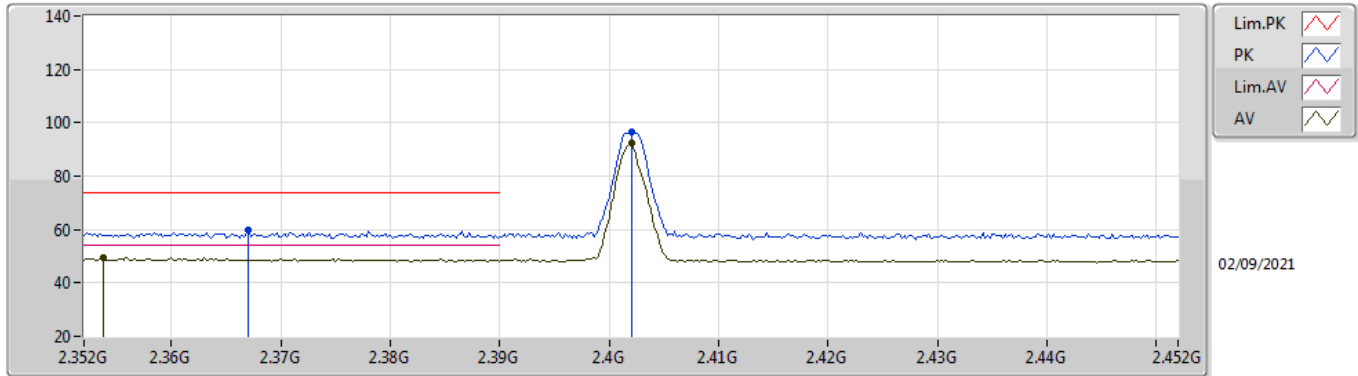
2480MHz_TX



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	4.96001G	41.34	54.00	-12.66	6.21	3	Horizontal	349	2.04	-	35.13	31.42	9.02	34.23
PK	4.95949G	50.40	74.00	-23.60	6.21	3	Horizontal	349	2.04	-	44.19	31.42	9.02	34.23

BT-LE(2Mbps)

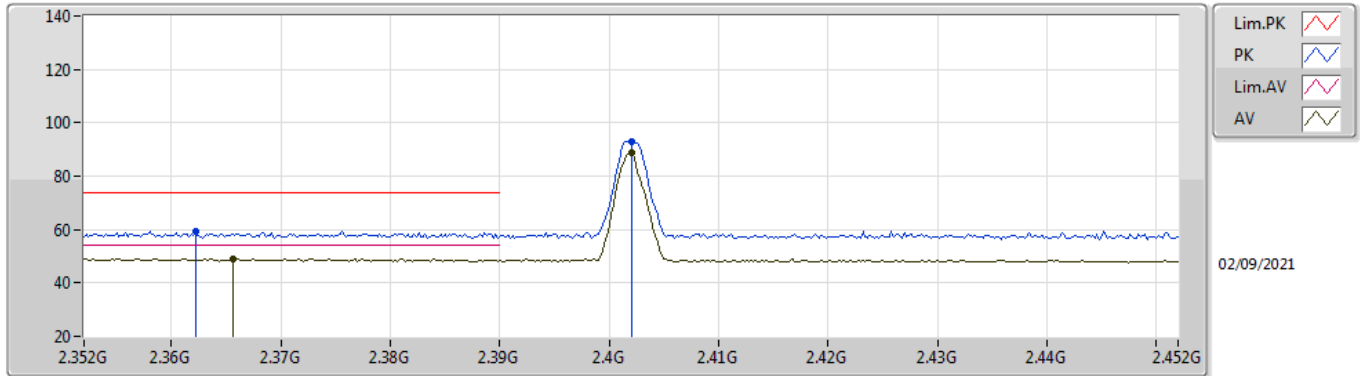
2402MHz_TX



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	2.3538G	49.48	54.00	-4.52	35.03	3	Vertical	177	1.48	-	14.45	27.79	7.24	-
AV	2.402G	92.17	Inf	-Inf	34.95	3	Vertical	177	1.48	-	57.22	27.69	7.26	-
PK	2.367G	60.02	74.00	-13.98	35.02	3	Vertical	177	1.48	-	25.00	27.77	7.25	-
PK	2.402G	96.39	Inf	-Inf	34.95	3	Vertical	177	1.48	-	61.44	27.69	7.26	-

BT-LE(2Mbps)

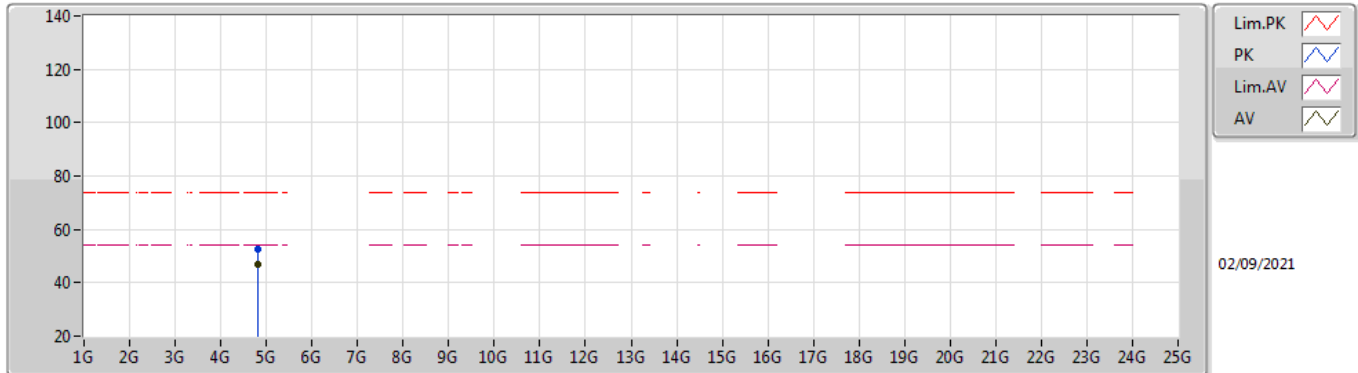
2402MHz_TX



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	2.3656G	49.21	54.00	-4.79	35.01	3	Horizontal	247	1.49	-	14.20	27.77	7.24	-
AV	2.402G	88.82	Inf	-Inf	34.95	3	Horizontal	247	1.49	-	53.87	27.69	7.26	-
PK	2.3622G	59.43	74.00	-14.57	35.02	3	Horizontal	247	1.49	-	24.41	27.78	7.24	-
PK	2.402G	93.00	Inf	-Inf	34.95	3	Horizontal	247	1.49	-	58.05	27.69	7.26	-

BT-LE(2Mbps)

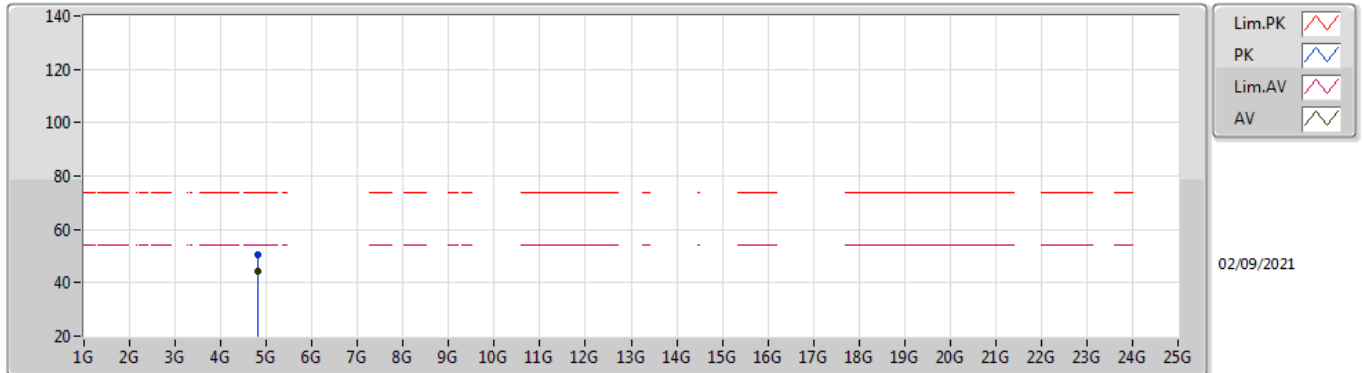
2402MHz_TX



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	4.80401G	47.08	54.00	-6.92	5.72	3	Vertical	176	1.50	-	41.36	31.11	8.90	34.29
PK	4.80299G	52.71	74.00	-21.29	5.72	3	Vertical	176	1.50	-	46.99	31.11	8.90	34.29

BT-LE(2Mbps)

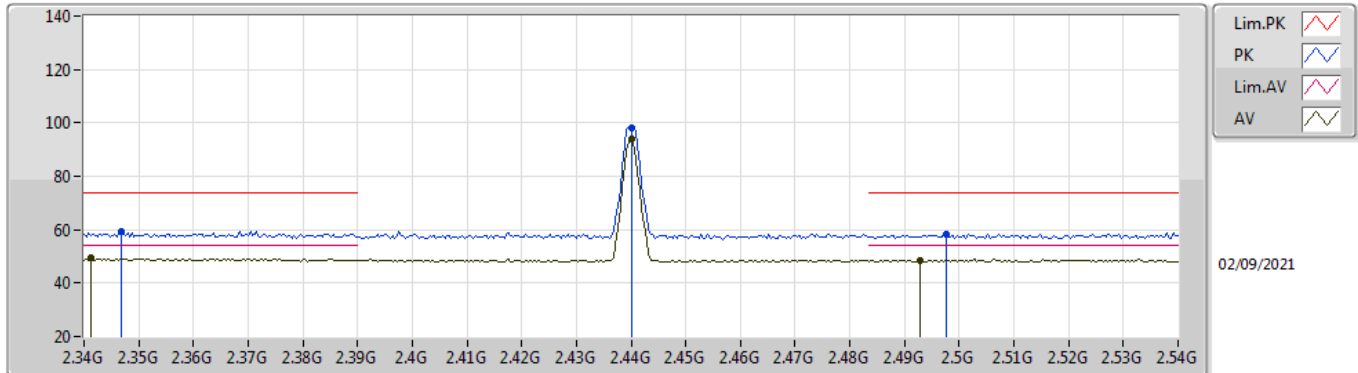
2402MHz_TX



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	4.804G	44.47	54.00	-9.53	5.72	3	Horizontal	160	1.00	-	38.75	31.11	8.90	34.29
PK	4.80305G	50.71	74.00	-23.29	5.72	3	Horizontal	160	1.00	-	44.99	31.11	8.90	34.29

BT-LE(2Mbps)

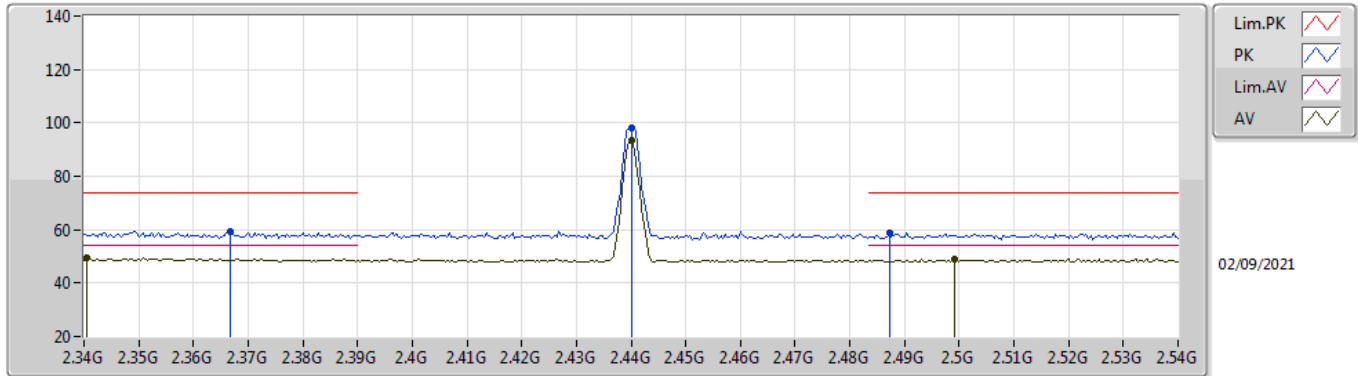
2440MHz_TX



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	2.3412G	49.24	54.00	-4.76	35.05	3	Vertical	225	1.10	-	14.19	27.82	7.23	-
AV	2.44G	93.93	Inf	-Inf	34.75	3	Vertical	225	1.10	-	59.18	27.46	7.29	-
AV	2.4928G	48.65	54.00	-5.35	34.73	3	Vertical	225	1.10	-	13.92	27.40	7.33	-
PK	2.3468G	59.33	74.00	-14.67	35.05	3	Vertical	225	1.10	-	24.28	27.81	7.24	-
PK	2.44G	98.12	Inf	-Inf	34.75	3	Vertical	225	1.10	-	63.37	27.46	7.29	-
PK	2.4976G	58.41	74.00	-15.59	34.74	3	Vertical	225	1.10	-	23.67	27.40	7.34	-

BT-LE(2Mbps)

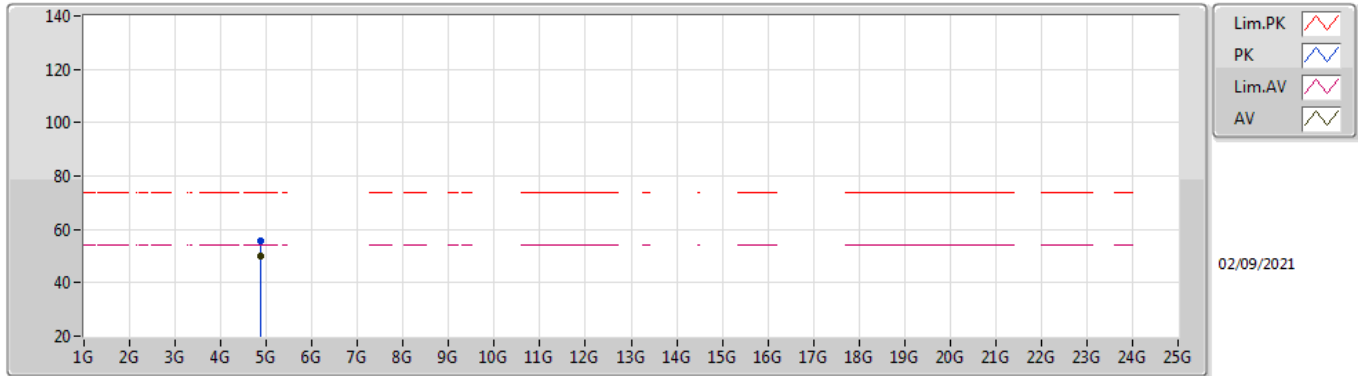
2440MHz_TX



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	2.3404G	49.61	54.00	-4.39	35.05	3	Horizontal	62	1.86	-	14.56	27.82	7.23	-
AV	2.44G	93.59	Inf	-Inf	34.75	3	Horizontal	62	1.86	-	58.84	27.46	7.29	-
AV	2.4992G	48.96	54.00	-5.04	34.74	3	Horizontal	62	1.86	-	14.22	27.40	7.34	-
PK	2.3668G	59.31	74.00	-14.69	35.02	3	Horizontal	62	1.86	-	24.29	27.77	7.25	-
PK	2.44G	97.85	Inf	-Inf	34.75	3	Horizontal	62	1.86	-	63.10	27.46	7.29	-
PK	2.4872G	58.59	74.00	-15.41	34.73	3	Horizontal	62	1.86	-	23.86	27.40	7.33	-

BT-LE(2Mbps)

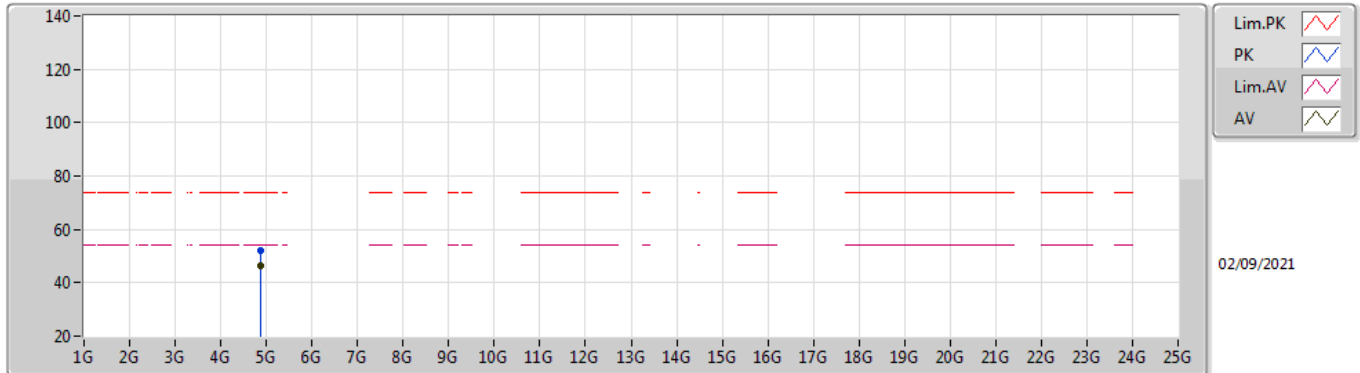
2440MHz_TX



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	4.88006G	49.88	54.00	-4.12	5.90	3	Vertical	176	1.50	-	43.98	31.20	8.96	34.26
PK	4.88009G	55.83	74.00	-18.17	5.90	3	Vertical	176	1.50	-	49.93	31.20	8.96	34.26

BT-LE(2Mbps)

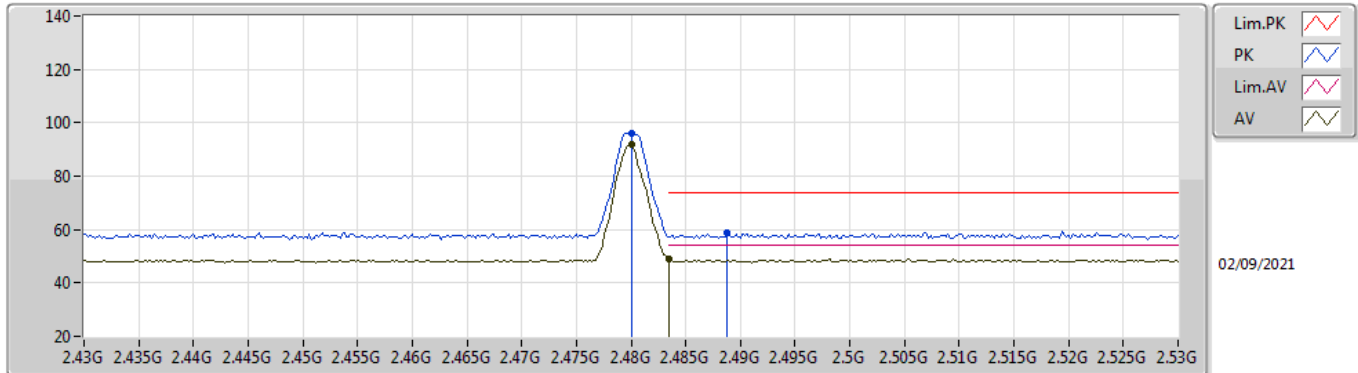
2440MHz_TX



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	4.88012G	46.15	54.00	-7.85	5.90	3	Horizontal	194	1.11	-	40.25	31.20	8.96	34.26
PK	4.8789G	51.96	74.00	-22.04	5.90	3	Horizontal	194	1.11	-	46.06	31.20	8.96	34.26

BT-LE(2Mbps)

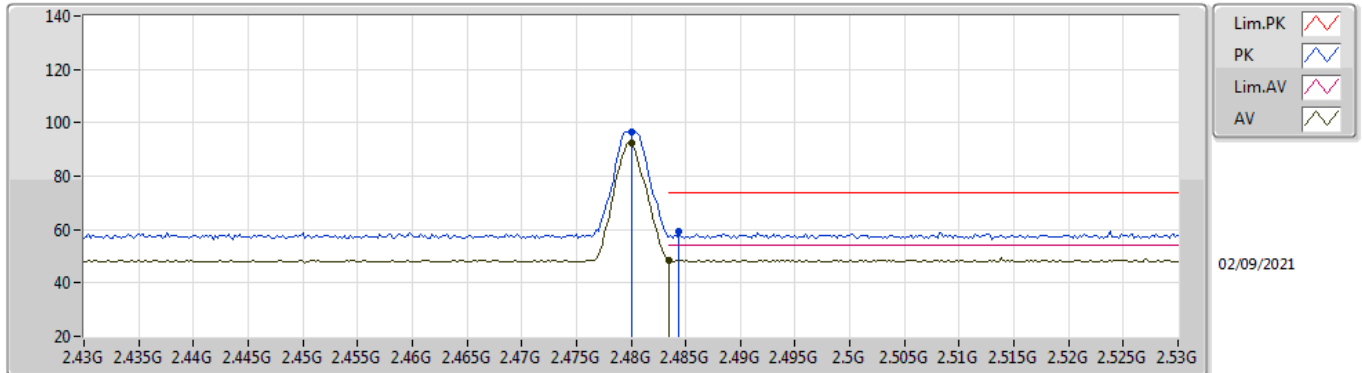
2480MHz_TX



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	91.95	Inf	-Inf	34.72	3	Vertical	159	1.49	-	57.23	27.40	7.32	-
AV	2.4835G	49.05	54.00	-4.95	34.73	3	Vertical	159	1.49	-	14.32	27.40	7.33	-
PK	2.48G	96.11	Inf	-Inf	34.72	3	Vertical	159	1.49	-	61.39	27.40	7.32	-
PK	2.4888G	58.69	74.00	-15.31	34.73	3	Vertical	159	1.49	-	23.96	27.40	7.33	-

BT-LE(2Mbps)

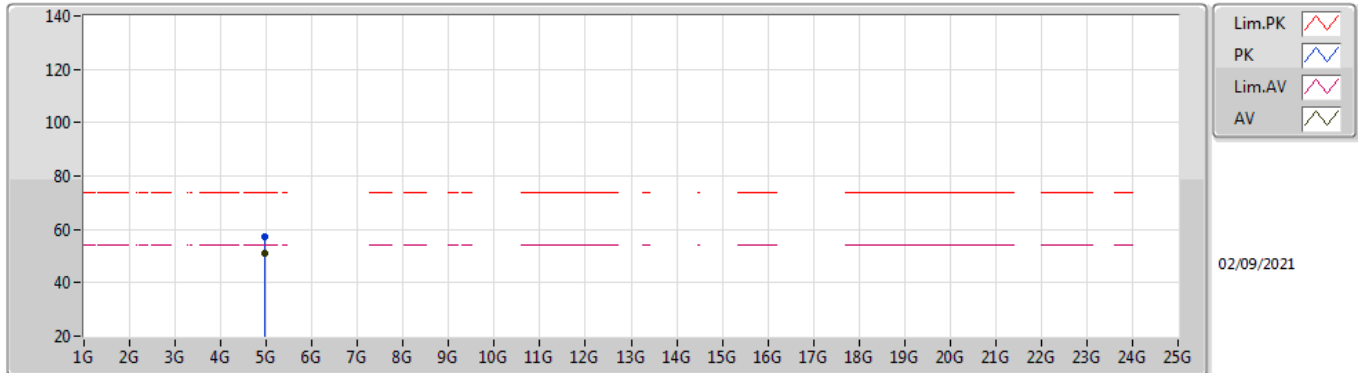
2480MHz_TX



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	92.63	Inf	-Inf	34.72	3	Horizontal	62	1.59	-	57.91	27.40	7.32	-
AV	2.4835G	48.64	54.00	-5.36	34.73	3	Horizontal	62	1.59	-	13.91	27.40	7.33	-
PK	2.48G	96.76	Inf	-Inf	34.72	3	Horizontal	62	1.59	-	62.04	27.40	7.32	-
PK	2.4844G	59.06	74.00	-14.94	34.73	3	Horizontal	62	1.59	-	24.33	27.40	7.33	-

BT-LE(2Mbps)

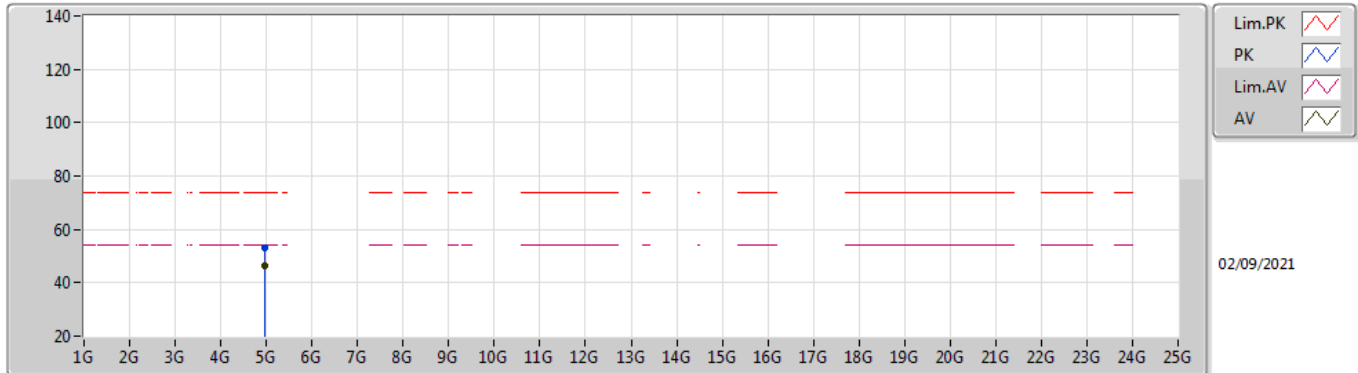
2480MHz_TX



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	4.96002G	51.13	54.00	-2.87	6.21	3	Vertical	249	1.30	-	44.92	31.42	9.02	34.23
PK	4.96006G	57.36	74.00	-16.64	6.21	3	Vertical	249	1.30	-	51.15	31.42	9.02	34.23

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	4.96004G	46.63	54.00	-7.37	6.21	3	Horizontal	349	1.00	-	40.42	31.42	9.02	34.23
PK	4.95999G	53.23	74.00	-20.77	6.21	3	Horizontal	349	1.00	-	47.02	31.42	9.02	34.23