

FCC Radio Test Report

FCC ID : 2AAAS-CM07
Equipment : Vivint Indoor Camera Pro
Brand Name : Vivint
Model Name : CM07
Applicant : Vivint, Inc.
4931 N. 300W., Provo, UT 84604 USA
Manufacturer : Chicony Electronics Co., Ltd
No.69, Sec. 2, Guangfu Rd., Sanchong Dist., New
Taipei City 241, Taiwan (R.O.C.)
Standard : 47 CFR FCC Part 15.247

The product was received on Nov. 24, 2022, and testing was started from Dec. 12, 2022 and completed on Dec. 21, 2022. We, SPORTON INTERNATIONAL INC. Hsinhua Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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


Approved by: Jackson Tsai

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

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



Table of Contents

HISTORY OF THIS TEST REPORT	3
SUMMARY OF TEST RESULT	4
1 GENERAL DESCRIPTION	5
1.1 Information.....	5
1.2 Testing Applied Standards	7
1.3 Testing Location Information	7
1.4 Measurement Uncertainty	7
2 TEST CONFIGURATION OF EUT.....	8
2.1 Test Channel Mode	8
2.2 The Worst Case Measurement Configuration.....	9
2.3 Accessories	10
2.4 Support Equipment.....	10
2.5 Test Setup Diagram	11
3 TRANSMITTER TEST RESULT	13
3.1 AC Power-line Conducted Emissions	13
3.2 DTS Bandwidth.....	15
3.3 Maximum Conducted Output Power	16
3.4 Power Spectral Density	18
3.5 Emissions in Non-restricted Frequency Bands	19
3.6 Emissions in Restricted Frequency Bands.....	20
4 TEST EQUIPMENT AND CALIBRATION DATA	24
APPENDIX A. TEST RESULTS OF AC POWER-LINE CONDUCTED EMISSIONS	
APPENDIX B. TEST RESULTS OF DTS BANDWIDTH	
APPENDIX C. TEST RESULTS OF MAXIMUM CONDUCTED OUTPUT POWER	
APPENDIX D. TEST RESULTS OF POWER SPECTRAL DENSITY	
APPENDIX E. TEST RESULTS OF EMISSIONS IN NON-RESTRICTED FREQUENCY BANDS	
APPENDIX F. TEST RESULTS OF EMISSIONS IN RESTRICTED FREQUENCY BANDS	
APPENDIX G. TEST PHOTOS	
PHOTOGRAPHS OF EUT V01	



TEL : 886-3-3273456
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Report Template No.: HE1-C10 Ver4.3
FCC ID: 2AAAS-CM07

Summary of Test Result

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

Declaration of Conformity:

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

Comments and explanations:

None

Reviewed by: Ryan Hsiao

Report Producer: Amber Chiu

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(125kbps)	1.0	1TX
2.4-2.4835GHz	BT-LE(500kbps)	1.0	1TX
2.4-2.4835GHz	BT-LE(2Mbps)	2.0	1TX

Note:

- ♦ Bluetooth LE uses a GFSK (125kbps/500kbps/1Mbps/2Mbps) modulation.
- ♦ BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Cable loss
1	Amphenol	CY5922-11-001-C	PIFA antenna	N/A	N/A
2	Amphenol	CY5922-11-002-C	PIFA antenna	I-PEX	2.4G: 0.1 dB 5G: 0.41 dB

Ant.	Port	Gain (dBi)		
		2.4G	5G	BT LE
1	1	1.33	3.32	1.33
2	2	1.77	4.09	-

Note 1: The EUT has two antennas.

For 2.4GHz function:

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

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

For BT function:

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

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

For 5GHz function:

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

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

1.1.3 EUT Information

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

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq$ 1/T
BT-LE(1Mbps)	0.606	2.18	379.063u	3k
BT-LE(125kbps)	0.804	0.95	3.098m	1k
BT-LE(500kbps)	0.582	2.35	1.058m	1k
BT-LE(2Mbps)	0.312	5.06	195.313u	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				
☒ 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	Wayne Chiu	22.5~23.3°C / 52~57%	12/Dec/2022
RF Conducted	TH01-HY	Johnny Yu	19.8~20.6°C / 47~53%	12/Dec/2022~21/Dec/2022
Radiated (Above 1GHz)	03CH02-HY	Daniel Lin	20.1~21.5°C / 64~67%	14/Dec/2022~15/Dec//2022
☒ Wen 33rd.St. (TAF: 3785)	ADD: No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)			
	TEL: 886-3-318-0787		FAX: 886-3-318-0287	
Test site Designation No. TW0008 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
Radiated (Below 1GHz)	03CH09-HY	Lego Lin	21.5~21.8°C / 62~66%	14/Dec/2022

1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Test Items	Uncertainty	Remark
AC Power-line Conducted Emissions	4.53 dB	Confidence levels of 95%
Bandwidth	3 MHz	Confidence levels of 95%
Maximum Conducted Output Power	2 dB	Confidence levels of 95%
Power Spectral Density	2 dB	Confidence levels of 95%
Emissions in Non-restricted Frequency Bands	0.14 dB	Confidence levels of 95%
Emissions in Restricted Frequency Bands	4.8 dB	Confidence levels of 95%
Receiver Radiated Unwanted Emissions	4.8 dB	Confidence levels of 95%
Temperature	0.41 °C	Confidence levels of 95%
Humidity	3.4 %	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Test Software Version	Putty Release 0.62
Mode	Power Setting
BT-LE(1Mbps)	-
2402MHz	Default
2440MHz	Default
2480MHz	Default
BT-LE(2Mbps)	-
2402MHz	Default
2440MHz	Default
2480MHz	Default
BT-LE(125kbps)	-
2402MHz	Default
2440MHz	Default
2480MHz	Default
BT-LE(500kbps)	-
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	Adapter 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	Adapter mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT	V		

2.3 Accessories

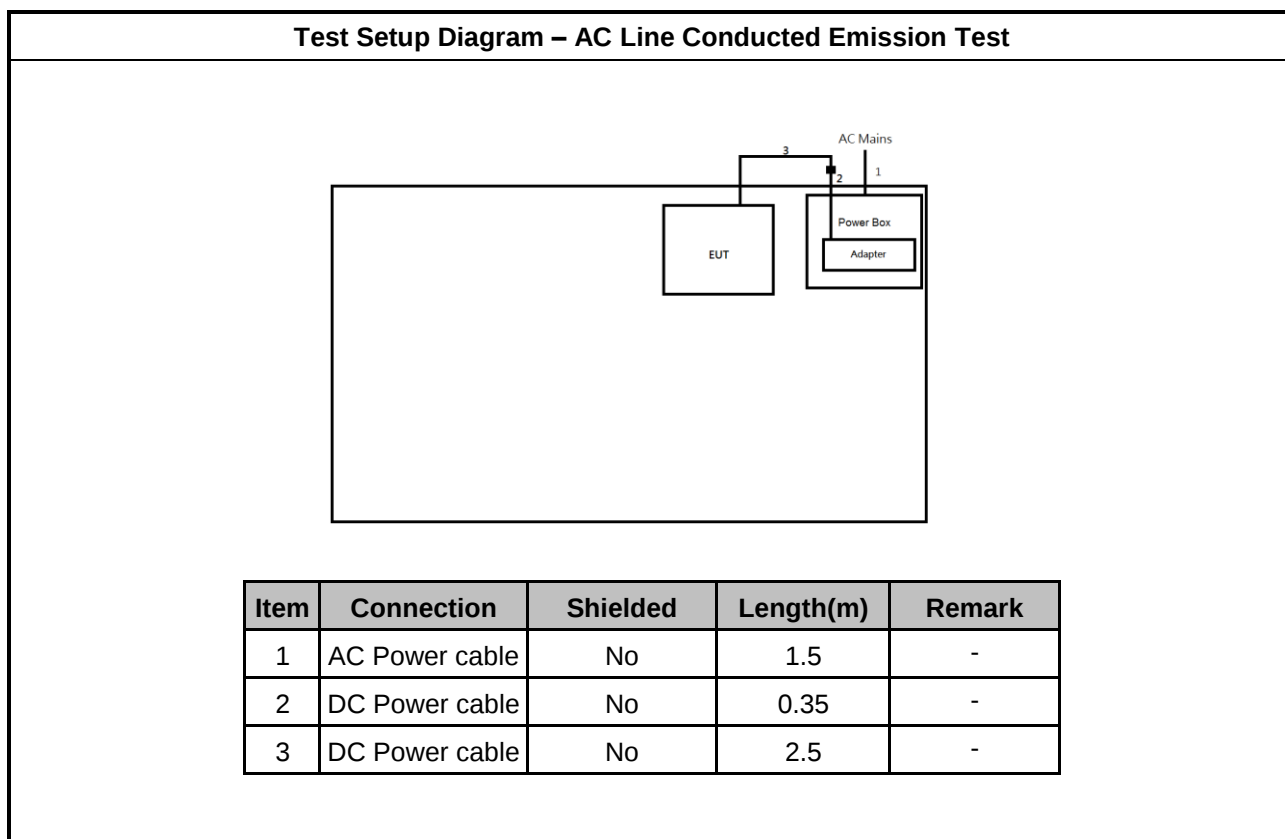
Accessories				
AC Adapter	Brand Name	HONOTO	Model Name	ADS-26DR-12 12018EPCU
	Power Rating	I/P: 100 - 240 Vac, 0.7A, O/P: 12 Vdc, 1.5 A		
	Power Cord	0.35 meter, non-shielded cable, w/o ferrite core		

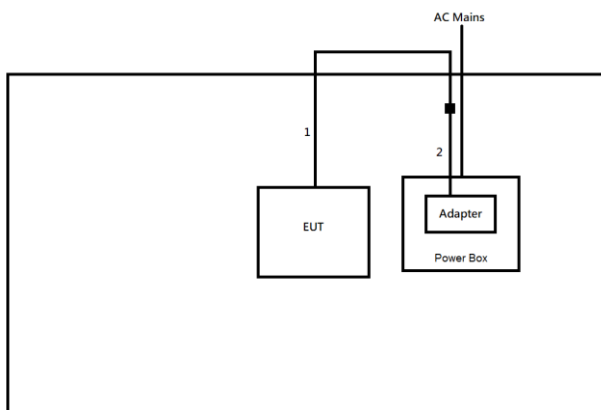
Reminder: Regarding to more detail and other information, please refer to user manual.

2.4 Support Equipment

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-
3	Fixture Board	-	B444022-1D0	-	Provided by Customer

2.5 Test Setup Diagram



Test Setup Diagram - Radiated Test


Item	Connection	Shielded	Length(m)	Remark
1	DC Power cable	No	2.50	-
2	DC Power cable	No	0.35	-

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

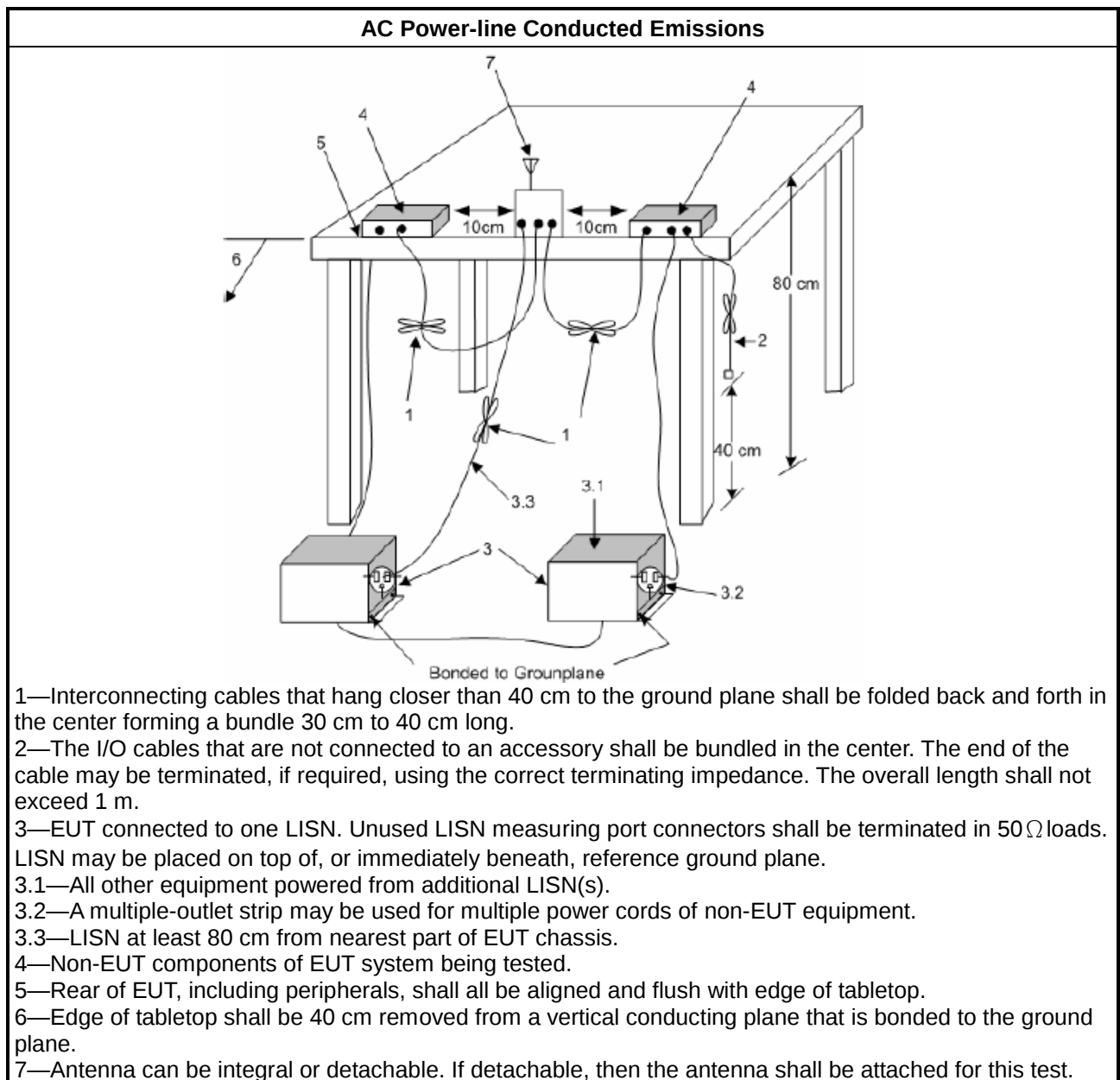
Test Method
▪ Refer as ANSI C63.10-2013, clause 6.2 foray power-line conducted emissions.

3.1.4 Measurement Results Calculation

The measured Level is calculated using:

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

3.1.5 Test Setup



3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

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

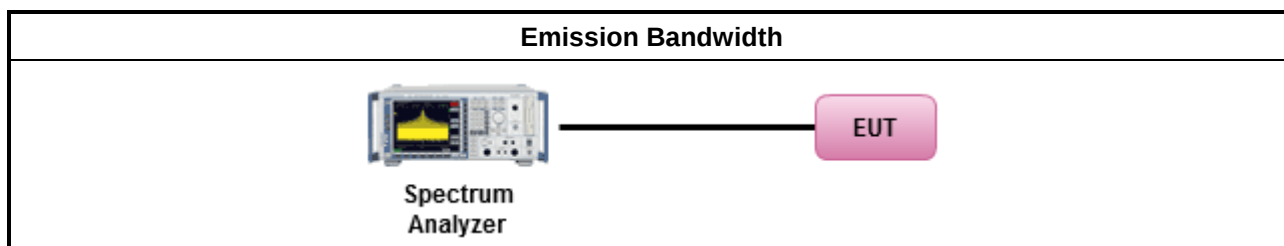
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
	If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)
	Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm
	Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	Smart antenna system (SAS):
	- Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	- Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	- Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dB dBm
e.i.r.p. Power Limit:	
	2400-2483.5 MHz Band
	Point-to-multipoint systems (P2M): $P_{eirp} \leq 36$ dBm (4 W)
	Point-to-point systems (P2P): $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX}])$ dBm
	Smart antenna system (SAS)
	- Single beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	- Overlap beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	- Aggregate power on all beams: $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX} + 8])$ dBm
P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

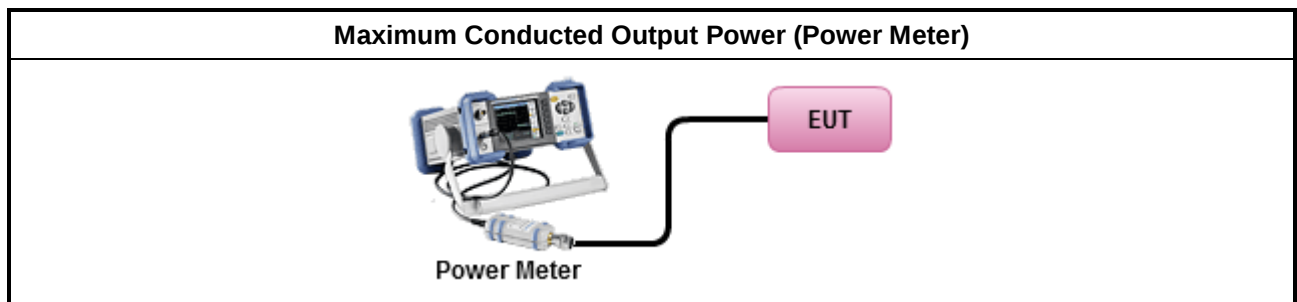
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
Maximum Peak Conducted Output Power	
☐	Refer as KDB 558074, clause 8.3.1.1 (11.9.1.1 of ANSI C63.10) RBW ≥ EBW method.
☐	Refer as KDB 558074, clause 8.3.1.2 (11.9.1.2 of ANSI C63.10) integrated band power method.
☐	Refer as KDB 558074, clause 8.3.1.3 (11.9.1.3 of ANSI C63.10) peak power meter.
Maximum Average Conducted Output Power	
☐	Refer as KDB 558074, clause 8.3.2.2 (11.9.2.2 of ANSI C63.10) using a spectrum analyzer.
☒	Refer as KDB 558074, clause 8.3.2.3 (11.9.2.3 of ANSI C63.10) using a power meter.
For conducted measurement.	
If the EUT supports multiple transmit chains using options given below: Refer as KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.	
If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$	

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

Power Spectral Density Limit
Power Spectral Density (PSD) ≤ 8 dBm/3kHz

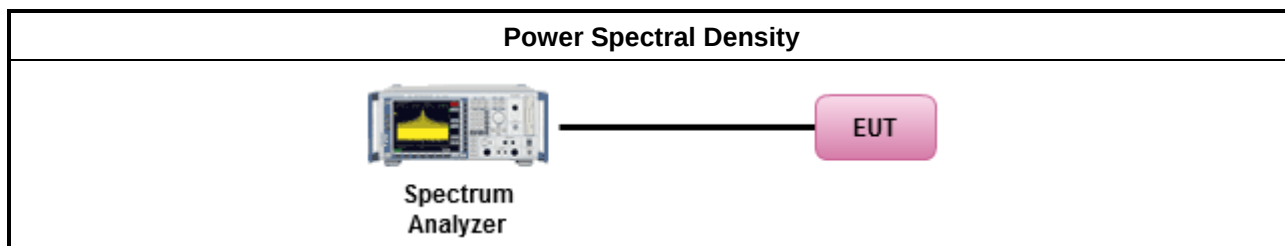
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method
Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).
☒ Refer as KDB 558074, clause 8.4 (11.10 of ANSI C63.10) Max. PSD.
For conducted measurement.
If The EUT supports multiple transmit chains using options given below:
Measure and sum the spectra across the outputs. Refer as KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	Limit (dB)
Peak output power procedure	20
Average output power procedure	30
Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak level. Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average level.	

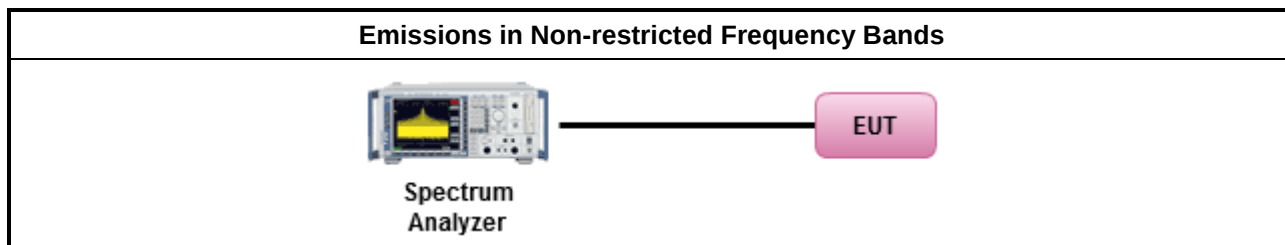
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method
Refer as KDB 558074, clause 8.5 (11.11 of ANSI C63.10) for non-restricted frequency bands.

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

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

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

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

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

3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

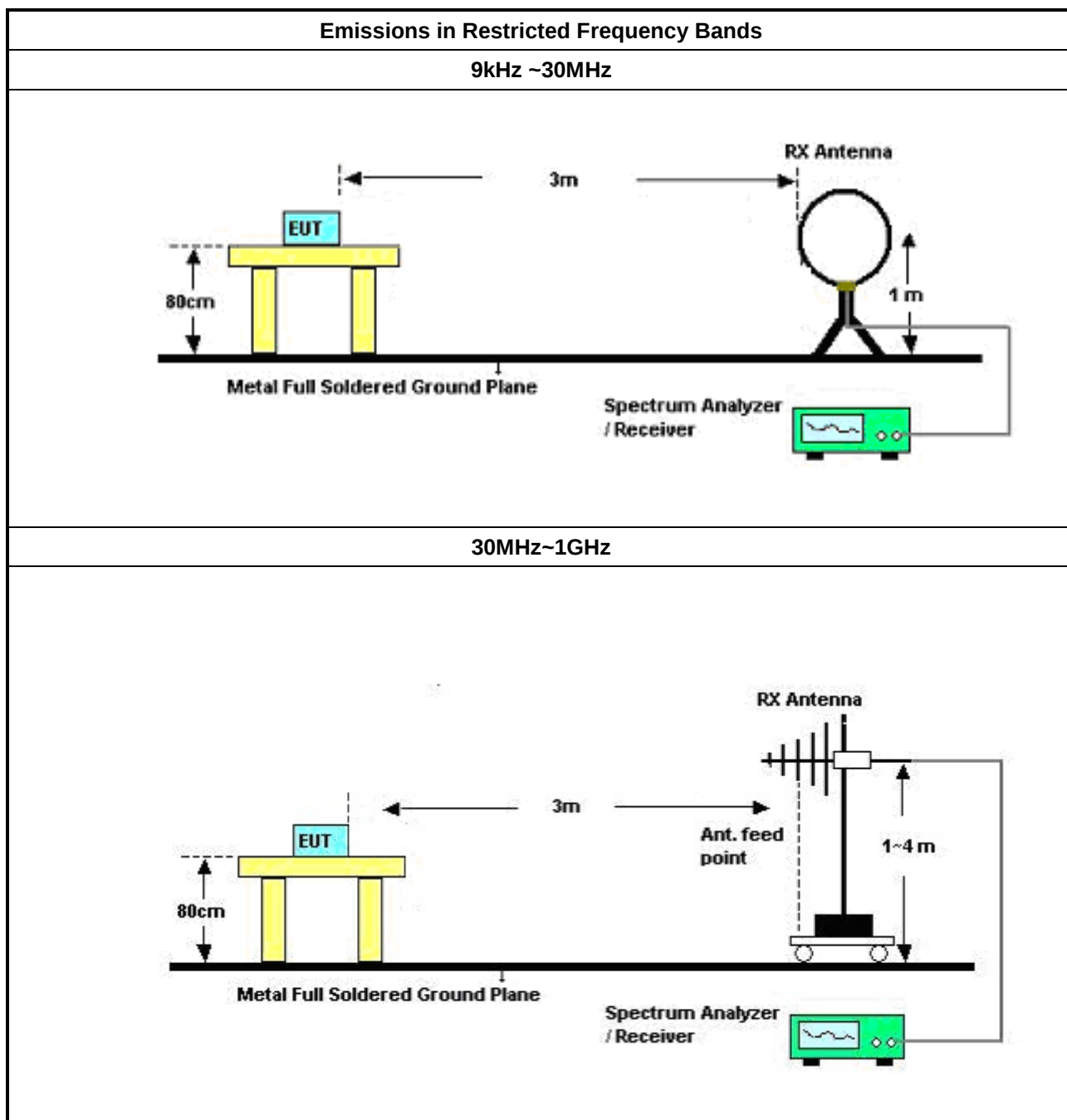
Test Method	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
For the transmitter unwanted emissions shall be measured using following options below:	
	Refer as KDB 558074, clause 8.6 (11.12 of ANSI C63.10) for restricted frequency bands.
For the transmitter band-edge emissions shall be measured using following options below:	
	Refer as KDB 558074 clause 8.7.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.
	Refer as KDB 558074, clause 8.7.2 (6.10.6 of ANSI C63.10) for marker-delta method for band-edge measurements.
	Refer as KDB 558074, clause 8.7.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels.
Use the following spectrum analyzer settings:	
	Set RBW=100 kHz for $f < 1$ GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.
	Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement. For average measurement, refer as 1.1.4.
KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.	
	Based on FCC 15.31(f)(2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
	Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

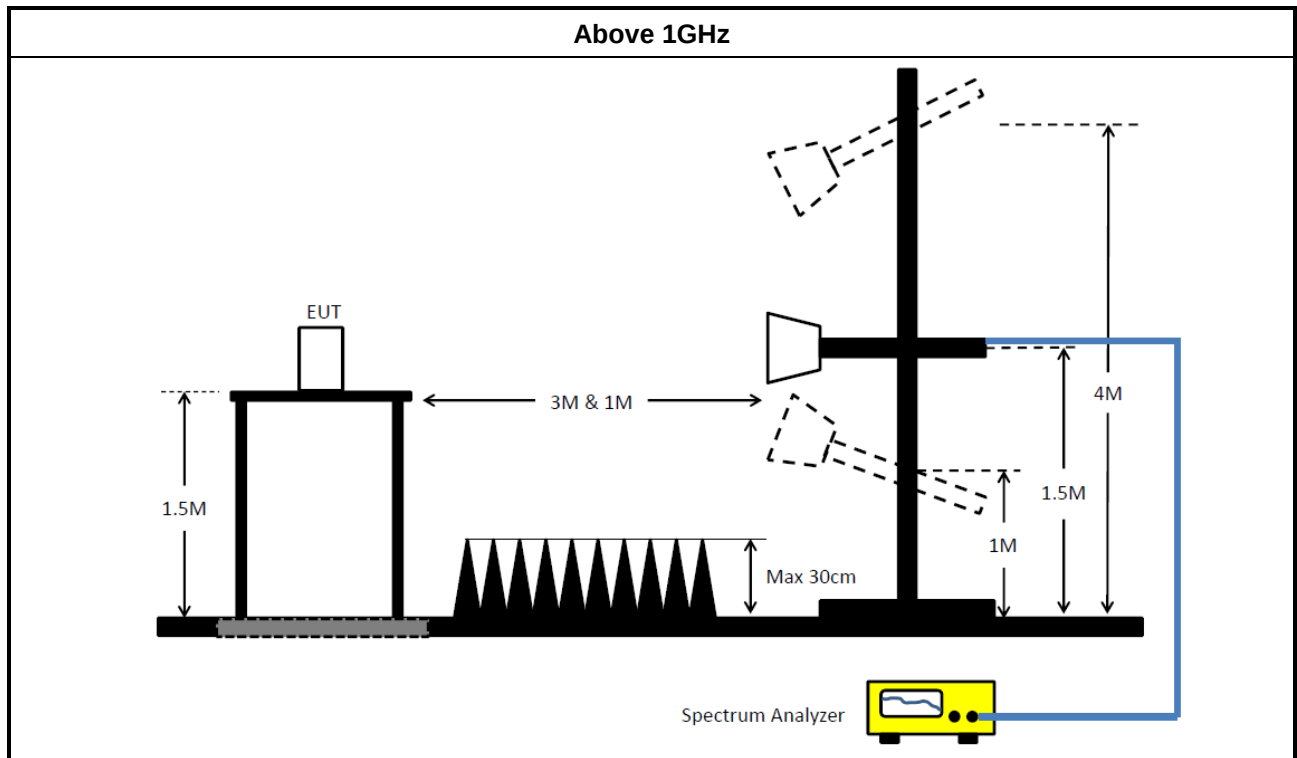
3.6.4 Measurement Results Calculation

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	102051	9kHz ~ 3.6GHz	13/May/2022	12/May/2023
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	12/Jan/2022	11/Jan/2023
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	01/Mar/2022	28/Feb/2023
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	25/Oct/2022	24/Oct/2023
Software	Sporton	SENSE-EMI	V5.10.8.7	-	NCR	NCR

NCR: No Calibration Required

Instrument for Conducted Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101013	10Hz~40GHz	01/Apr/2022	31/Mar/2023
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	21/Oct/2022	20/Oct/2023
Pulse Sensor	Anritsu	MA2411B	0917017	300MHz~40GHz	21/Feb/2022	20/Feb/2023
Power Meter	Anritsu	ML2495A	0949003	300MHz~40GHz	21/Feb/2022	20/Feb/2023
SENSE-15247_FS	Sporton	5.10.8.9	N/A	N/A	N/A	N/A

Instrument for Radiated Test (03CH09-HY)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	30MHz~1GHz 3m	25/Mar/2022	24/Mar/2023
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200885	10Hz~44GHz	11/Aug/2022	10/Aug/2023
Amplifier	EMC	EMC9135	980232	9kHz~1GHz	08/Apr/2022	07/Apr/2023
Bilog Antenna & 5dB Attenuator	TESEQ & MTJ	CBL6111D&MT J6102-05	35418 & 3	30MHz~1GHz	28/Aug/2022	27/Aug/2023
RF Cable-low	Jye Bao	RG142	03CH09-cable-01	9kHz~30MHz	09/Dec/2022	08/Dec/2023
RF Cable-low	Jye Bao	RG142	03CH09-cable-01	30MHz~1GHz	09/Dec/2022	08/Dec/2023
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	18/Mar/2022	17/Mar/2023
EMI Test Receiver	R&S	ESR3	102052	9kHz~3.6GHz	02/Nov/2022	01/Nov/2023
SENSE-15247-FS	Sporton	NA	5.10.7.14	NA	NA	NA

**Instrument for Radiated Test (03CH02-HY)**

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3m	30/Jul/2022	29/Jul/2023
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz~26.5GHz	02/Nov/2022	01/Nov/2023
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02268	1GHz ~18GHz	27/Sep/2022	26/Sep/2023
RF Cable-R03m	HUBER+SUHNER	SUCOFLEX104	805193/4+805192/4	1GHz~40GHz	01/Apr/2022	31/Mar/2023
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz~40GHz	18/Mar/2022	17/Mar/2023
Microwave Preamplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz~40GHz	08/Mar/2022	07/Mar/2023
Signal Analyzer	R&S	FSP 40	100305	9kHz~40GHz	21/Mar/2022	20/Mar/2023
SENSE-15247-FS	Sporton	NA	5.10.7.14	NA	NA	NA



Conducted Emissions at Powerline

Appendix A

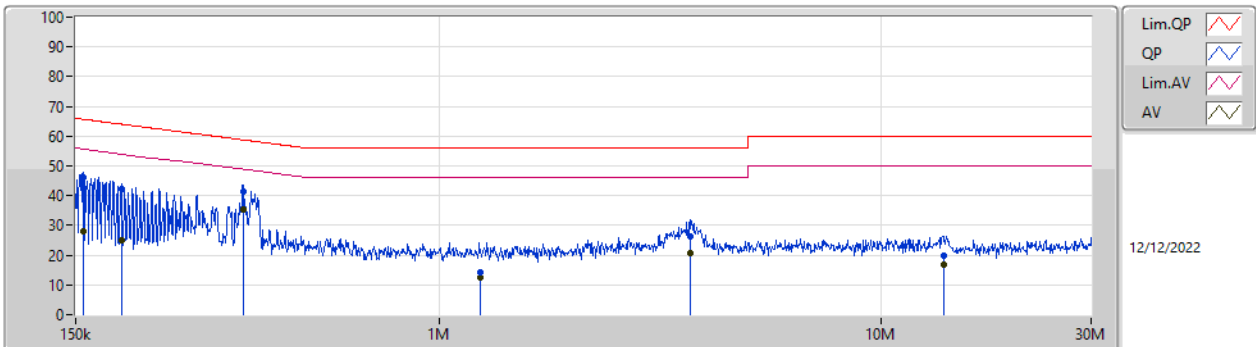
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	359.562k	35.54	48.73	-13.19	Line

Result

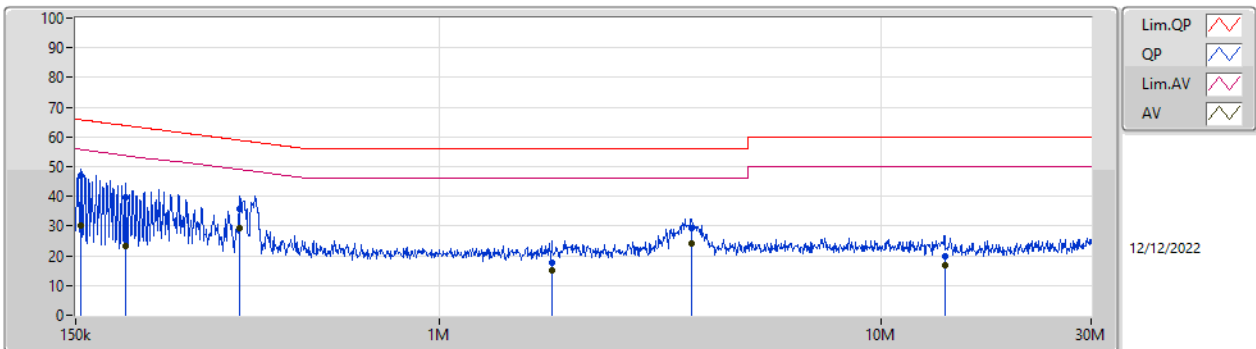
Mode	Result	Type	Freq (Hz)	Level (dBUV)	Limit (dBUV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	156.109k	46.29	65.67	-19.38	Line	-
Mode 1	Pass	AV	156.109k	28.10	55.67	-27.57	Line	-
Mode 1	Pass	QP	190.596k	42.05	64.01	-21.96	Line	-
Mode 1	Pass	AV	190.596k	24.89	54.01	-29.12	Line	-
Mode 1	Pass	QP	359.562k	41.23	58.73	-17.50	Line	-
Mode 1	Pass	AV	359.562k	35.54	48.73	-13.19	Line	-
Mode 1	Pass	QP	1.235M	14.03	56.00	-41.97	Line	-
Mode 1	Pass	AV	1.235M	12.65	46.00	-33.35	Line	-
Mode 1	Pass	QP	3.701M	26.43	56.00	-29.57	Line	-
Mode 1	Pass	AV	3.701M	20.79	46.00	-25.21	Line	-
Mode 1	Pass	QP	13.871M	19.66	60.00	-40.34	Line	-
Mode 1	Pass	AV	13.871M	16.90	50.00	-33.10	Line	-
Mode 1	Pass	QP	154.251k	47.05	65.77	-18.72	Neutral	-
Mode 1	Pass	AV	154.251k	30.17	55.77	-25.60	Neutral	-
Mode 1	Pass	QP	194.439k	39.66	63.84	-24.18	Neutral	-
Mode 1	Pass	AV	194.439k	23.09	53.84	-30.75	Neutral	-
Mode 1	Pass	QP	353.867k	35.69	58.87	-23.18	Neutral	-
Mode 1	Pass	AV	353.867k	29.38	48.87	-19.49	Neutral	-
Mode 1	Pass	QP	1.797M	17.76	56.00	-38.24	Neutral	-
Mode 1	Pass	AV	1.797M	14.94	46.00	-31.06	Neutral	-
Mode 1	Pass	QP	3.73M	29.25	56.00	-26.75	Neutral	-
Mode 1	Pass	AV	3.73M	24.18	46.00	-21.82	Neutral	-
Mode 1	Pass	QP	13.983M	19.68	60.00	-40.32	Neutral	-
Mode 1	Pass	AV	13.983M	16.82	50.00	-33.18	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	156.109k	46.29	65.67	-19.38	19.65	Line	-	26.64	9.69	0.03	9.93			
AV	156.109k	28.10	55.67	-27.57	19.65	Line	-	8.45	9.69	0.03	9.93			
QP	190.596k	42.05	64.01	-21.96	19.65	Line	-	22.40	9.69	0.03	9.93			
AV	190.596k	24.89	54.01	-29.12	19.65	Line	-	5.24	9.69	0.03	9.93			
QP	359.562k	41.23	58.73	-17.50	19.68	Line	-	21.55	9.68	0.04	9.96			
AV	359.562k	35.54	48.73	-13.19	19.68	Line	-	15.86	9.68	0.04	9.96			
QP	1.235M	14.03	56.00	-41.97	19.69	Line	-	-5.66	9.69	0.06	9.94			
AV	1.235M	12.65	46.00	-33.35	19.69	Line	-	-7.04	9.69	0.06	9.94			
QP	3.701M	26.43	56.00	-29.57	19.76	Line	-	6.67	9.71	0.12	9.93			
AV	3.701M	20.79	46.00	-25.21	19.76	Line	-	1.03	9.71	0.12	9.93			
QP	13.871M	19.66	60.00	-40.34	20.00	Line	-	-0.34	9.80	0.23	9.97			
AV	13.871M	16.90	50.00	-33.10	20.00	Line	-	-3.10	9.80	0.23	9.97			

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	154.251k	47.05	65.77	-18.72	19.69	Neutral	-	27.36	9.73	0.03	9.93			
AV	154.251k	30.17	55.77	-25.60	19.69	Neutral	-	10.48	9.73	0.03	9.93			
QP	194.439k	39.66	63.84	-24.18	19.68	Neutral	-	19.98	9.72	0.03	9.93			
AV	194.439k	23.09	53.84	-30.75	19.68	Neutral	-	3.41	9.72	0.03	9.93			
QP	353.867k	35.69	58.87	-23.18	19.71	Neutral	-	15.98	9.72	0.04	9.95			
AV	353.867k	29.38	48.87	-19.49	19.71	Neutral	-	9.67	9.72	0.04	9.95			
QP	1.797M	17.76	56.00	-38.24	19.76	Neutral	-	-2.00	9.74	0.08	9.94			
AV	1.797M	14.94	46.00	-31.06	19.76	Neutral	-	-4.82	9.74	0.08	9.94			
QP	3.73M	29.25	56.00	-26.75	19.82	Neutral	-	9.43	9.76	0.13	9.93			
AV	3.73M	24.18	46.00	-21.82	19.82	Neutral	-	4.36	9.76	0.13	9.93			
QP	13.983M	19.68	60.00	-40.32	20.14	Neutral	-	-0.46	9.94	0.23	9.97			
AV	13.983M	16.82	50.00	-33.18	20.14	Neutral	-	-3.32	9.94	0.23	9.97			

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)	691.25k	1.044M	1M04F1D	682.5k	1.043M
BT-LE(125kbps)	706.25k	1.071M	1M07F1D	698.75k	1.066M
BT-LE(500kbps)	673.75k	1.036M	1M04F1D	663.75k	1.033M
BT-LE(2Mbps)	1.335M	2.091M	2M09F1D	1.333M	2.089M

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

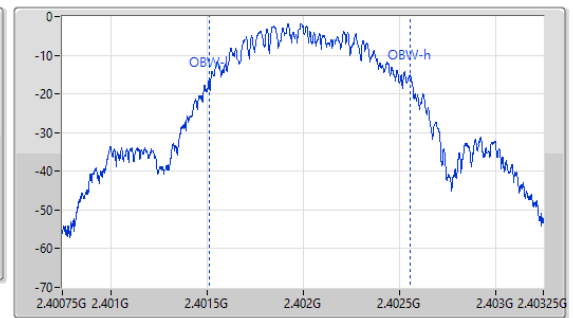
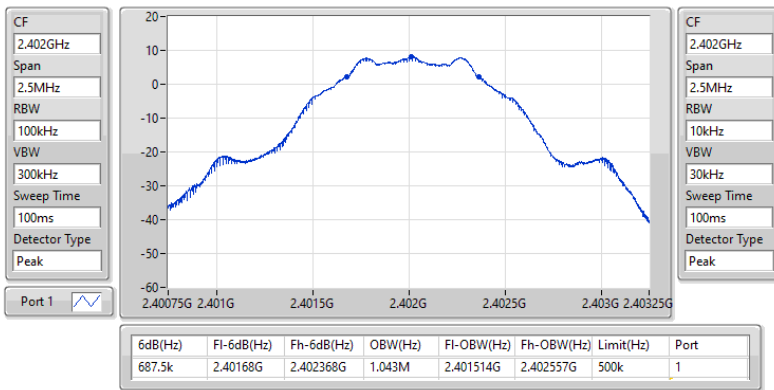
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	500k	687.5k	1.043M
2440MHz	Pass	500k	682.5k	1.044M
2480MHz	Pass	500k	691.25k	1.043M
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	500k	1.335M	2.091M
2440MHz	Pass	500k	1.333M	2.091M
2480MHz	Pass	500k	1.333M	2.089M
BT-LE(125kbps)	-	-	-	-
2402MHz	Pass	500k	702.5k	1.071M
2440MHz	Pass	500k	706.25k	1.066M
2480MHz	Pass	500k	698.75k	1.067M
BT-LE(500kbps)	-	-	-	-
2402MHz	Pass	500k	663.75k	1.033M
2440MHz	Pass	500k	673.75k	1.036M
2480MHz	Pass	500k	663.75k	1.033M

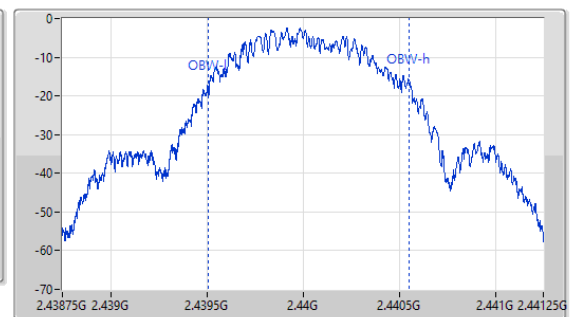
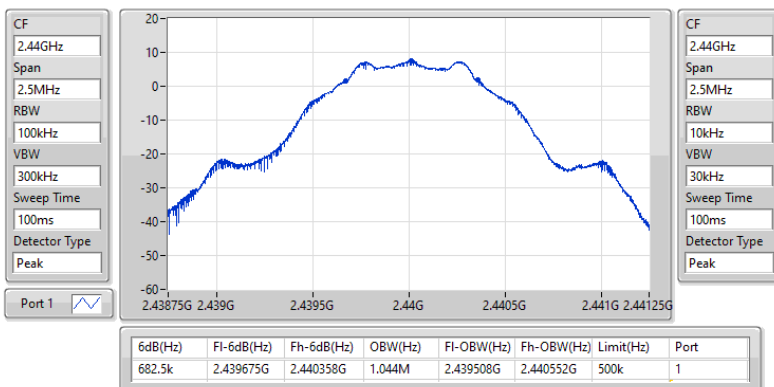
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_BT-LE(1Mbps)
EBW-DTS
2402MHz

12/12/2022


2.4-2.4835GHz_BT-LE(1Mbps)
EBW-DTS
2440MHz

12/12/2022

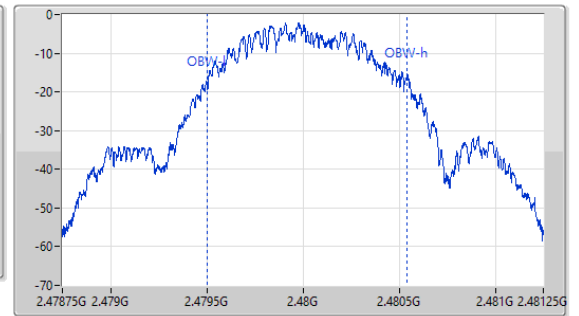
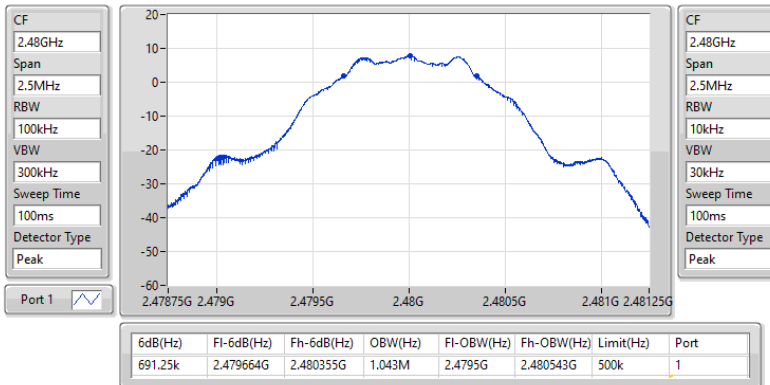


2.4-2.4835GHz_BT-LE(1Mbps)

EBW-DTS

2480MHz

12/12/2022

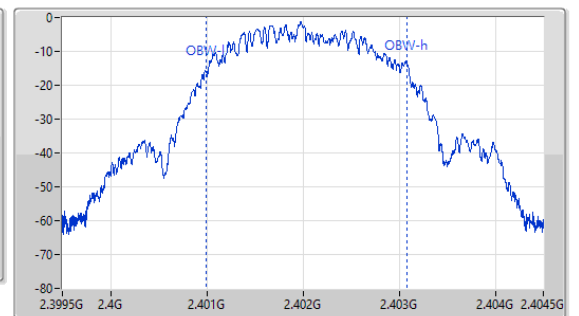
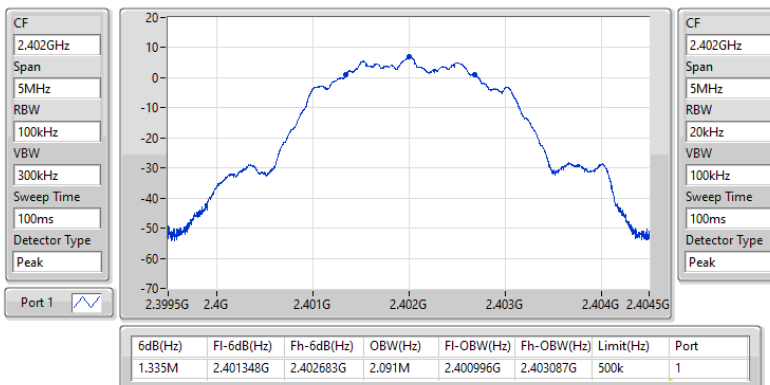


2.4-2.4835GHz_BT-LE(2Mbps)

EBW-DTS

2402MHz

12/12/2022

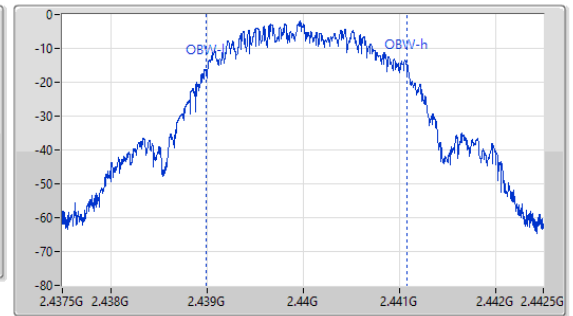
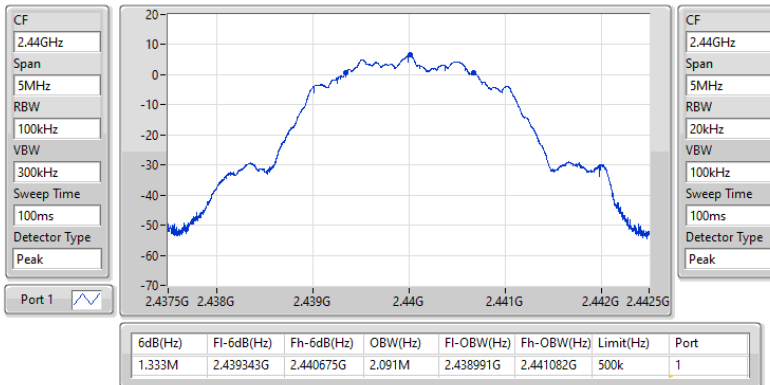


2.4-2.4835GHz_BT-LE(2Mbps)

EBW-DTS

2440MHz

12/12/2022

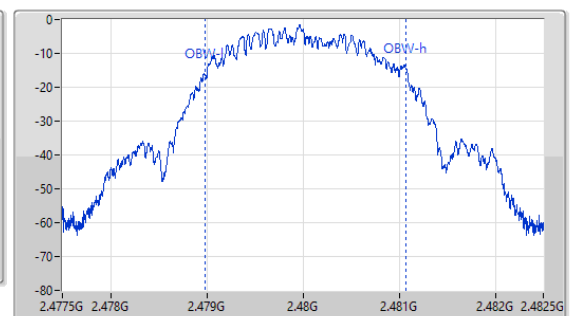
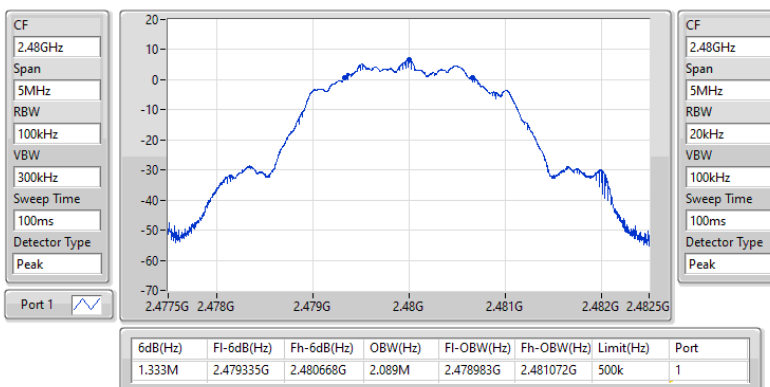


2.4-2.4835GHz_BT-LE(2Mbps)

EBW-DTS

2480MHz

12/12/2022

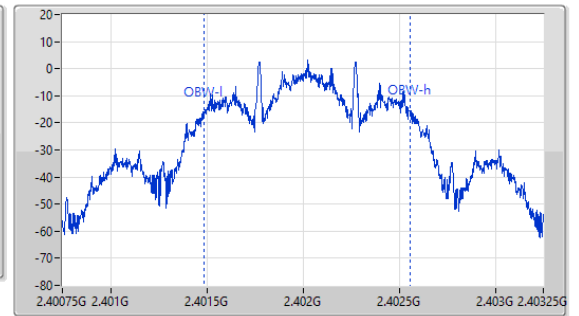
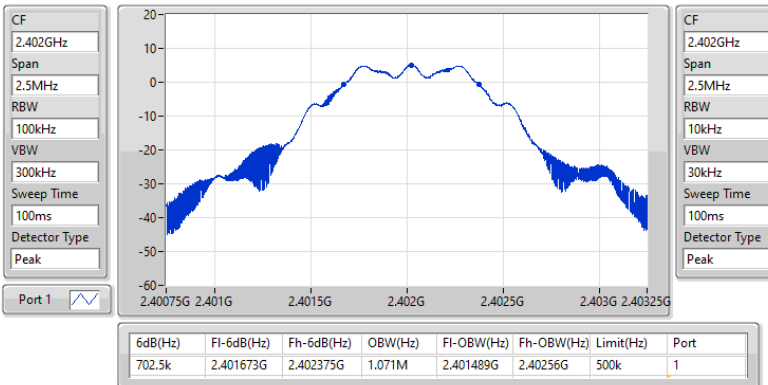


2.4-2.4835GHz_BT-LE(125kbps)

EBW-DTS

2402MHz

12/12/2022

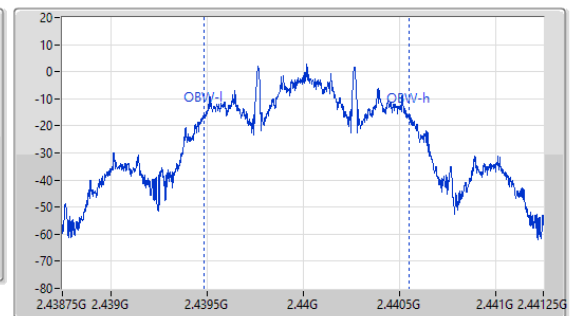
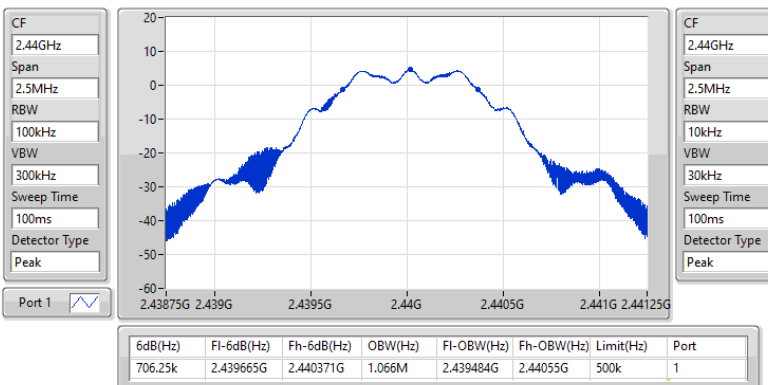


2.4-2.4835GHz_BT-LE(125kbps)

EBW-DTS

2440MHz

12/12/2022

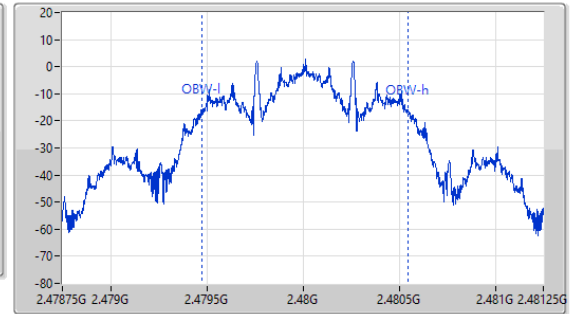
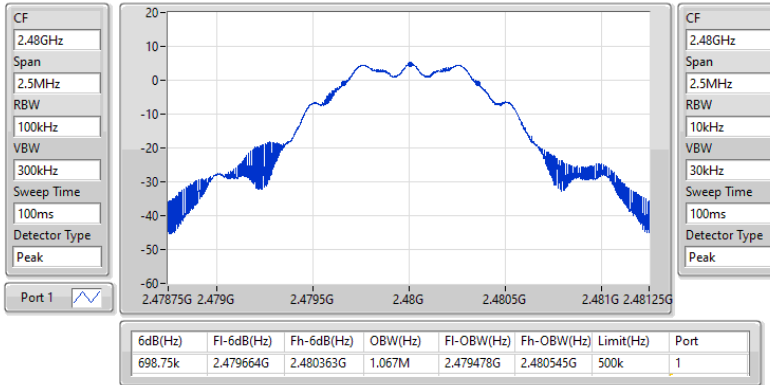


2.4-2.4835GHz_BT-LE(125kbps)

EBW-DTS

2480MHz

12/12/2022

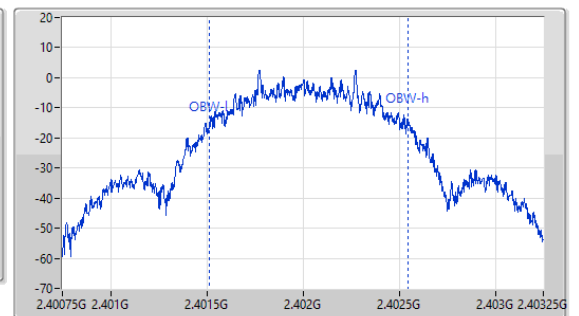
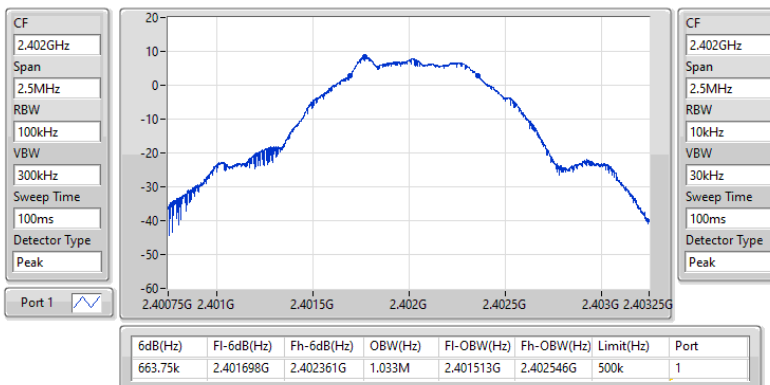


2.4-2.4835GHz_BT-LE(500kbps)

EBW-DTS

2402MHz

12/12/2022

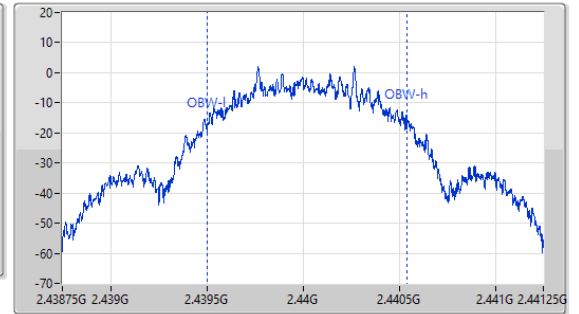
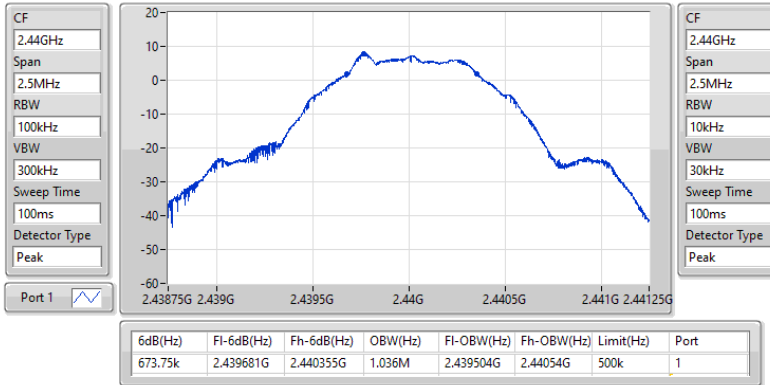


2.4-2.4835GHz_BT-LE(500kbps)

EBW-DTS

2440MHz

12/12/2022

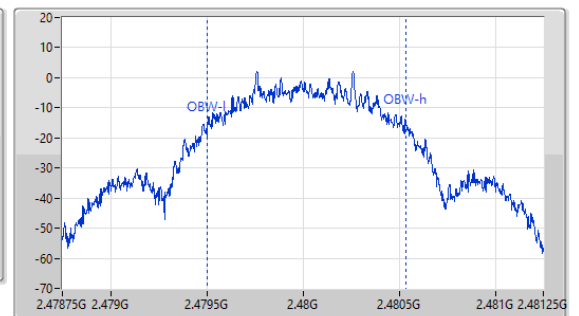
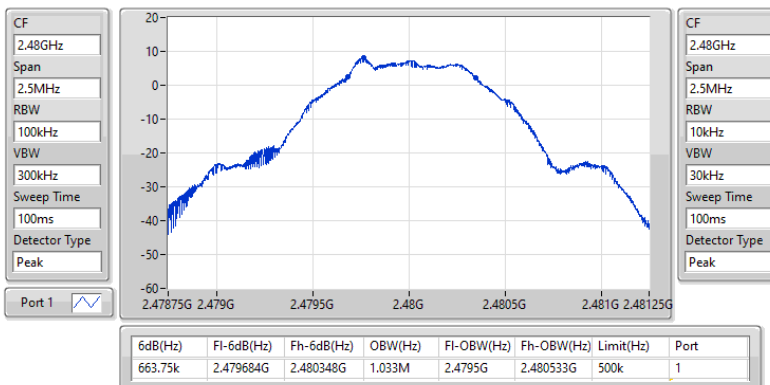


2.4-2.4835GHz_BT-LE(500kbps)

EBW-DTS

2480MHz

12/12/2022





Summary

Mode	Total Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	8.59	0.00723
BT-LE(125kbps)	8.57	0.00719
BT-LE(500kbps)	8.57	0.00719
BT-LE(2Mbps)	8.56	0.00718

Result

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	1.33	8.59	30.00
2440MHz	Pass	1.33	8.00	30.00
2480MHz	Pass	1.33	8.20	30.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	1.33	8.56	30.00
2440MHz	Pass	1.33	7.81	30.00
2480MHz	Pass	1.33	8.13	30.00
BT-LE(125kbps)	-	-	-	-
2402MHz	Pass	1.33	8.57	30.00
2440MHz	Pass	1.33	8.05	30.00
2480MHz	Pass	1.33	8.28	30.00
BT-LE(500kbps)	-	-	-	-
2402MHz	Pass	1.33	8.57	30.00
2440MHz	Pass	1.33	8.07	30.00
2480MHz	Pass	1.33	8.29	30.00

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



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
BT-LE(1Mbps)	-7.12
BT-LE(2Mbps)	-9.83
BT-LE(125kbps)	2.38
BT-LE(500kbps)	1.72

RBW = 3kHz;

Result

Mode	Result	DG (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	1.33	-7.12	8.00
2440MHz	Pass	1.33	-8.07	8.00
2480MHz	Pass	1.33	-7.45	8.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	1.33	-9.83	8.00
2440MHz	Pass	1.33	-10.40	8.00
2480MHz	Pass	1.33	-10.19	8.00
BT-LE(125kbps)	-	-	-	-
2402MHz	Pass	1.33	2.38	8.00
2440MHz	Pass	1.33	1.78	8.00
2480MHz	Pass	1.33	1.91	8.00
BT-LE(500kbps)	-	-	-	-
2402MHz	Pass	1.33	-1.26	8.00
2440MHz	Pass	1.33	-5.44	8.00
2480MHz	Pass	1.33	1.72	8.00

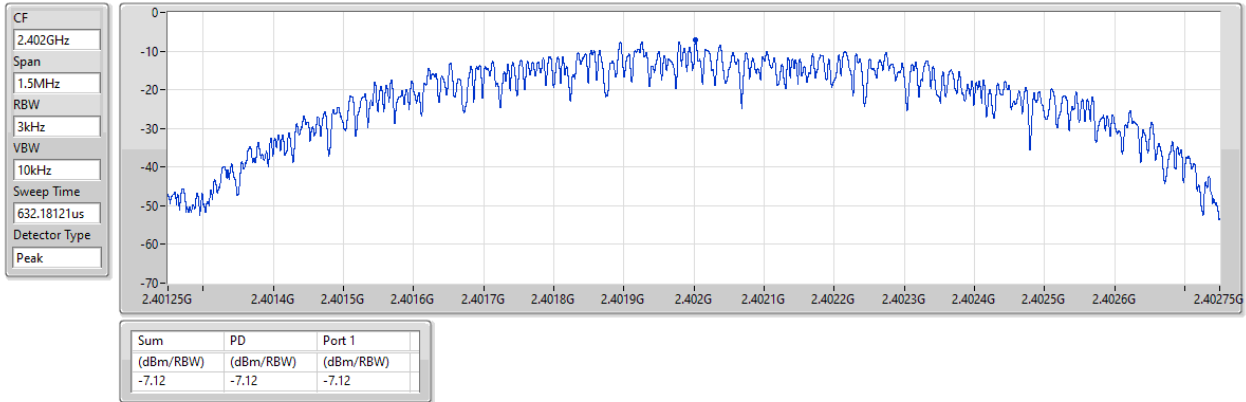
DG = Directional Gain; RBW = 3kHz;
 PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

2.4-2.4835GHz_BT-LE(1Mbps)

PSD

2402MHz

12/12/2022

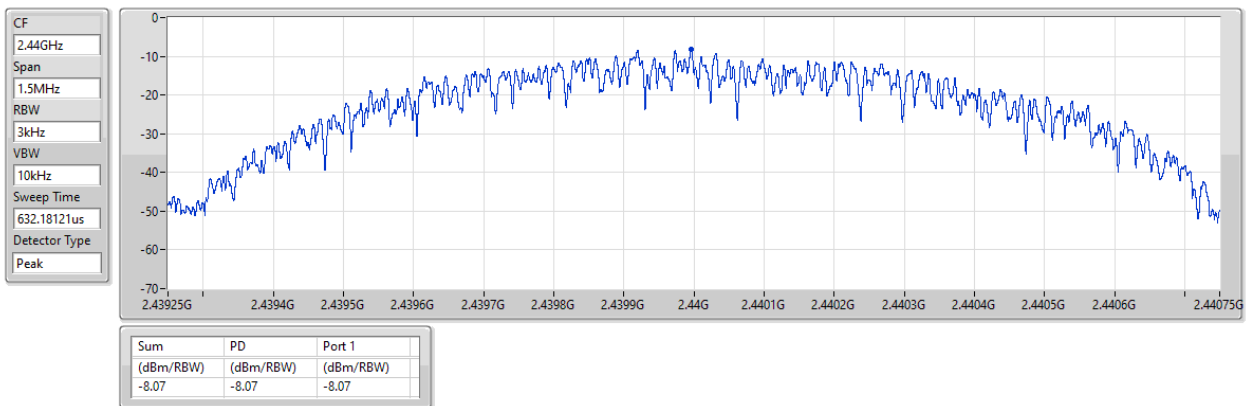


2.4-2.4835GHz_BT-LE(1Mbps)

PSD

2440MHz

12/12/2022

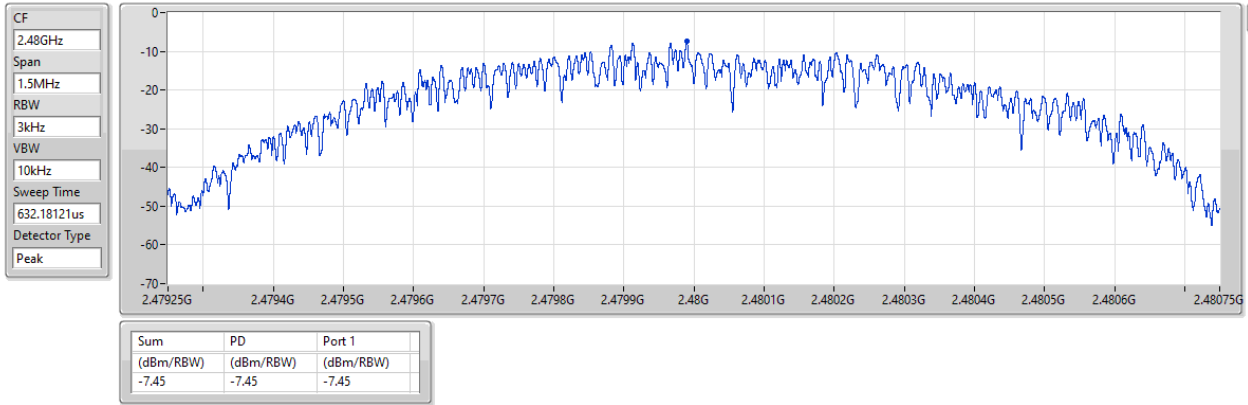


2.4-2.4835GHz_BT-LE(1Mbps)

PSD

2480MHz

12/12/2022

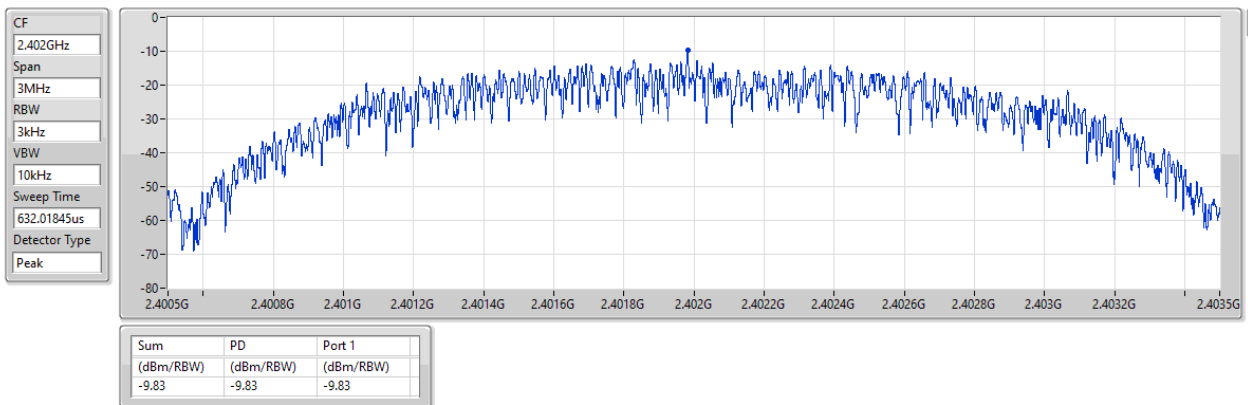


2.4-2.4835GHz_BT-LE(2Mbps)

PSD

2402MHz

12/12/2022

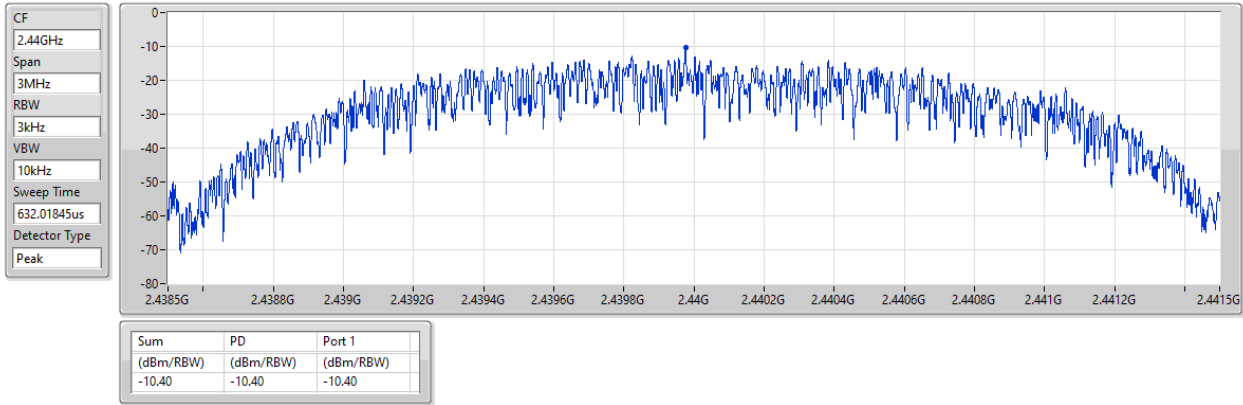


2.4-2.4835GHz_BT-LE(2Mbps)

PSD

2440MHz

12/12/2022

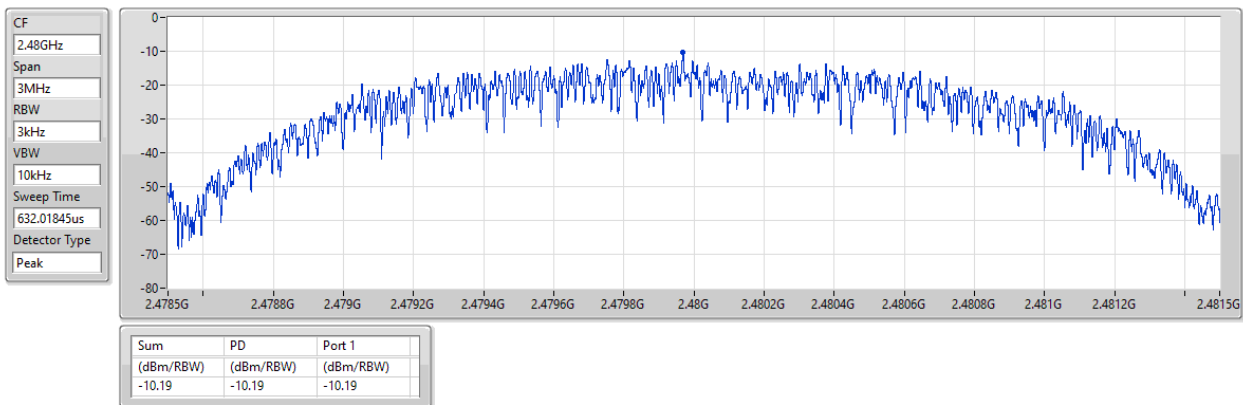


2.4-2.4835GHz_BT-LE(2Mbps)

PSD

2480MHz

12/12/2022

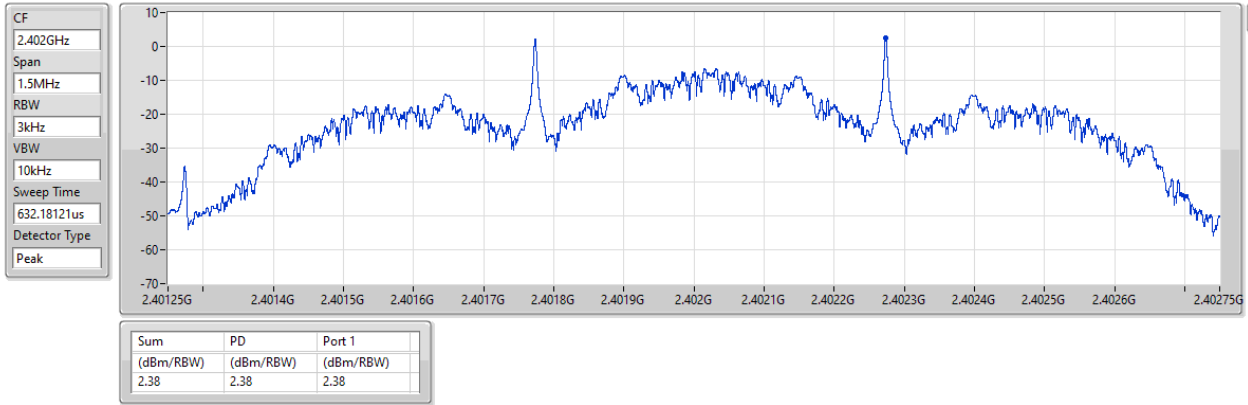


2.4-2.4835GHz_BT-LE(125kbps)

PSD

2402MHz

12/12/2022

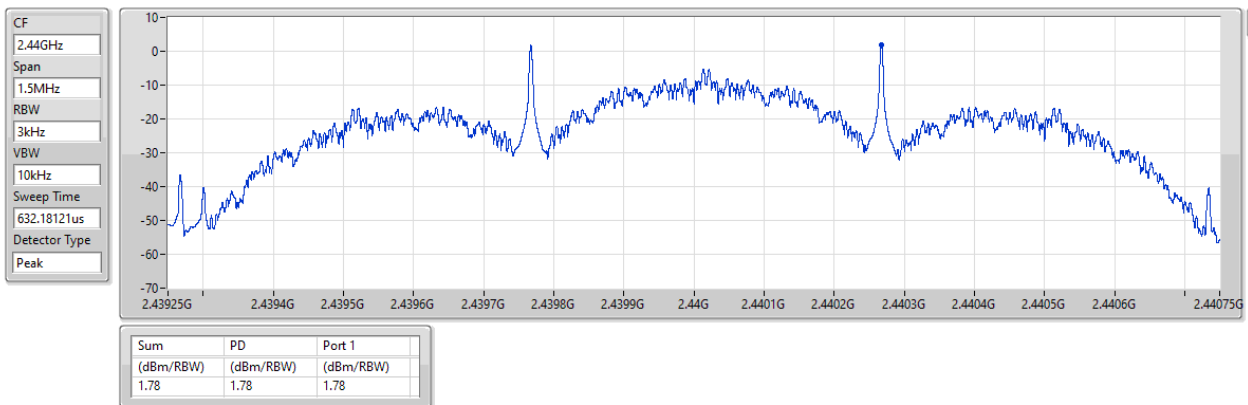


2.4-2.4835GHz_BT-LE(125kbps)

PSD

2440MHz

12/12/2022

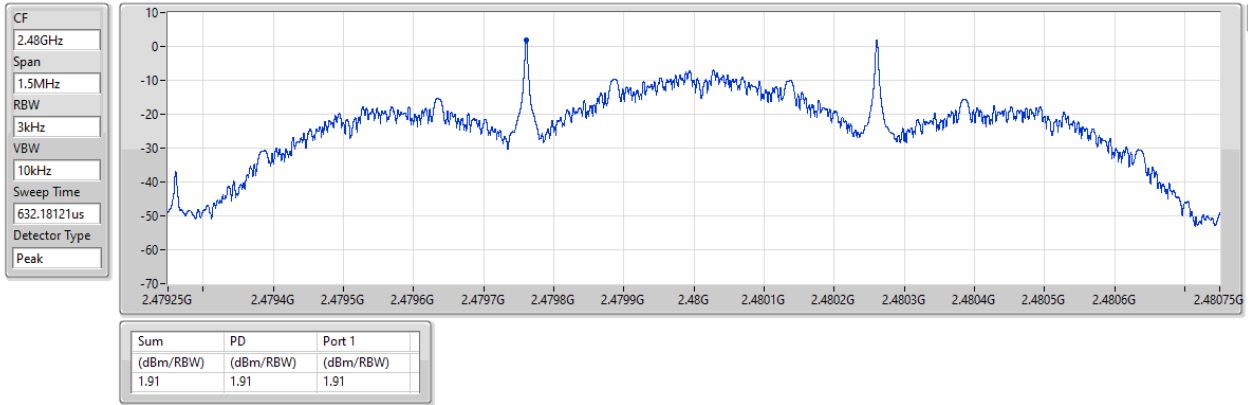


2.4-2.4835GHz_BT-LE(125kbps)

PSD

2480MHz

12/12/2022

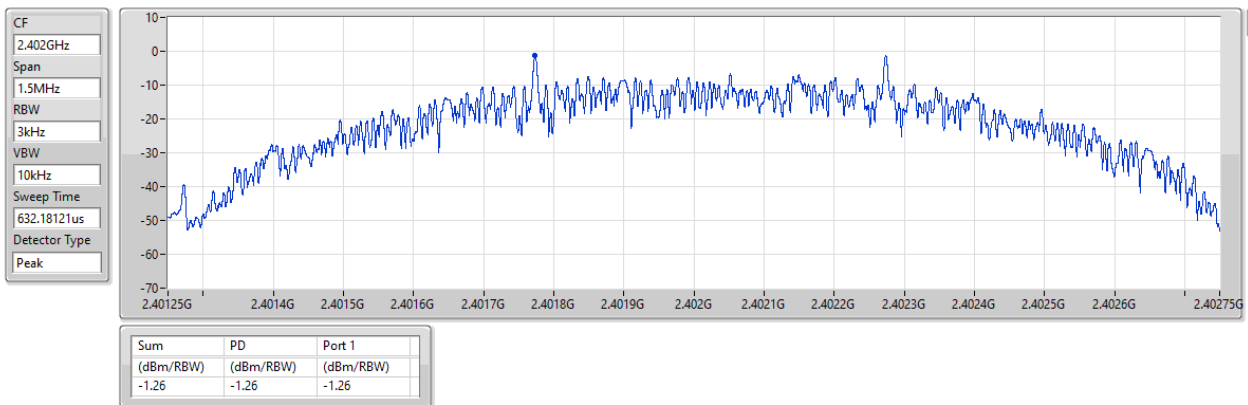


2.4-2.4835GHz_BT-LE(500kbps)

PSD

2402MHz

12/12/2022

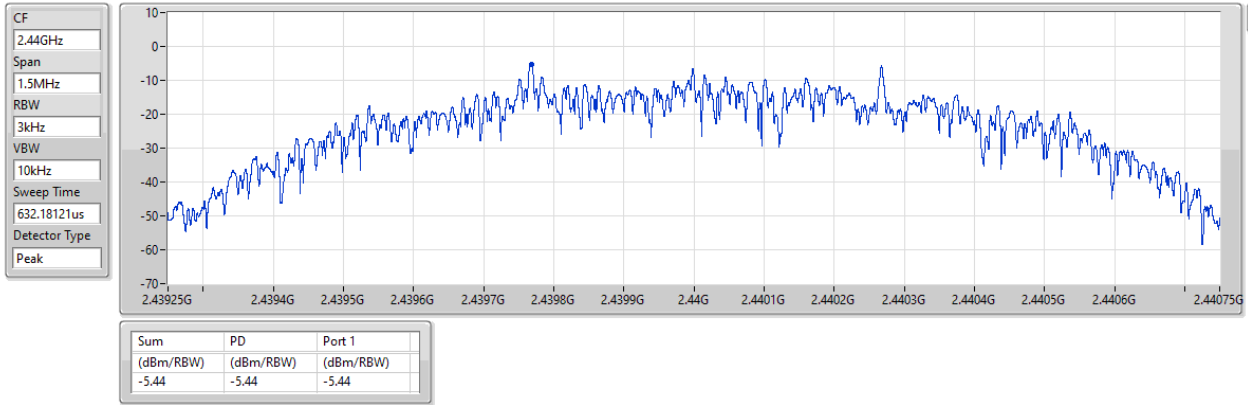


2.4-2.4835GHz_BT-LE(500kbps)

PSD

2440MHz

12/12/2022

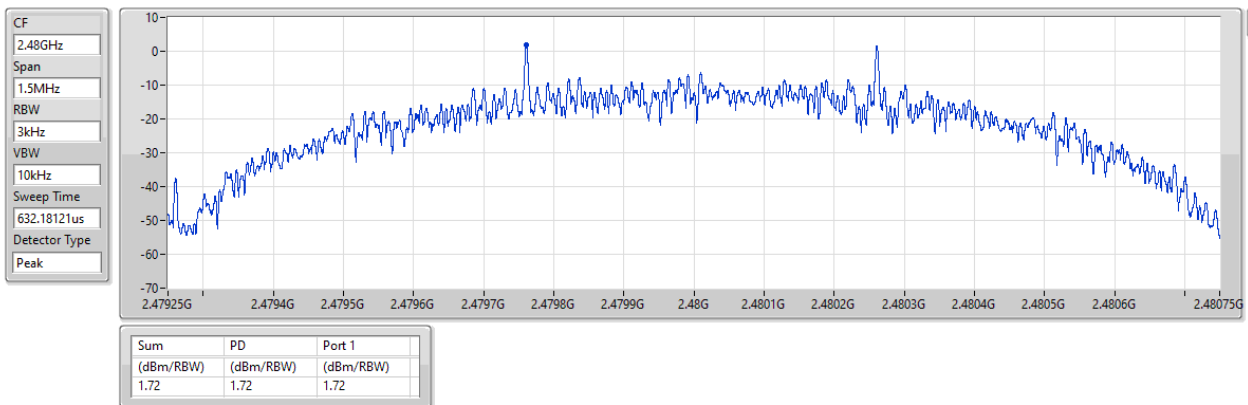


2.4-2.4835GHz_BT-LE(500kbps)

PSD

2480MHz

12/12/2022



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	2.402G	8.04	-21.96	2.19788G	-55.01	2.4G	-52.64	2.4G	-53.74	2.50106G	-54.63	3.20089G	-39.77	1
BT-LE(125kbps)	Pass	2.402G	4.97	-25.03	1.9711G	-55.72	2.39496G	-54.73	2.4G	-56.13	2.50262G	-53.05	16.22355G	-42.14	1
BT-LE(500kbps)	Pass	2.40167G	8.39	-21.61	2.10505G	-54.42	2.39992G	-53.35	2.4G	-54.66	2.50118G	-53.61	3.20089G	-39.94	1
BT-LE(2Mbps)	Pass	2.402G	6.97	-23.03	1.96288G	-55.52	2.4G	-37.80	2.4G	-32.27	2.50298G	-54.01	3.20089G	-39.75	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	2.402G	8.04	-21.96	2.19788G	-55.01	2.4G	-52.64	2.4G	-53.74	2.50106G	-54.63	3.20089G	-39.77	1
2440MHz	Pass	2.402G	8.04	-21.96	1.83598G	-54.73	2.3992G	-53.62	2.4G	-55.27	2.50302G	-54.04	24.55007G	-42.09	1
2480MHz	Pass	2.402G	8.04	-21.96	2.0228G	-54.99	2.3988G	-53.77	2.4G	-57.32	2.50018G	-54.62	24.26605G	-41.27	1
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.402G	6.97	-23.03	1.96288G	-55.52	2.4G	-37.80	2.4G	-32.27	2.50298G	-54.01	3.20089G	-39.75	1
2440MHz	Pass	2.402G	6.97	-23.03	2.12033G	-55.35	2.39232G	-54.37	2.4G	-56.87	2.50202G	-54.45	16.8872G	-42.21	1
2480MHz	Pass	2.402G	6.97	-23.03	1.88533G	-56.10	2.39628G	-54.16	2.4G	-57.27	2.50142G	-54.63	24.9775G	-42.40	1
BT-LE(125kbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.402G	4.97	-25.03	2.16968G	-54.61	2.3994G	-53.65	2.4G	-53.84	2.50214G	-54.78	3.20089G	-39.47	1
2440MHz	Pass	2.402G	4.97	-25.03	1.9711G	-55.72	2.39496G	-54.73	2.4G	-56.13	2.50262G	-53.05	16.22355G	-42.14	1
2480MHz	Pass	2.402G	4.97	-25.03	1.81953G	-55.42	2.39692G	-54.48	2.4G	-56.74	2.50282G	-54.64	24.54163G	-41.43	1
BT-LE(500kbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40167G	8.39	-21.61	2.10505G	-54.42	2.39992G	-53.35	2.4G	-54.66	2.50118G	-53.61	3.20089G	-39.94	1
2440MHz	Pass	2.40167G	8.39	-21.61	2.3095G	-56.02	2.39168G	-55.21	2.4G	-56.20	2.50158G	-54.60	24.91845G	-42.56	1
2480MHz	Pass	2.40167G	8.39	-21.61	2.11563G	-55.68	2.39188G	-54.55	2.4G	-55.37	2.50182G	-54.46	15.05936G	-41.29	1

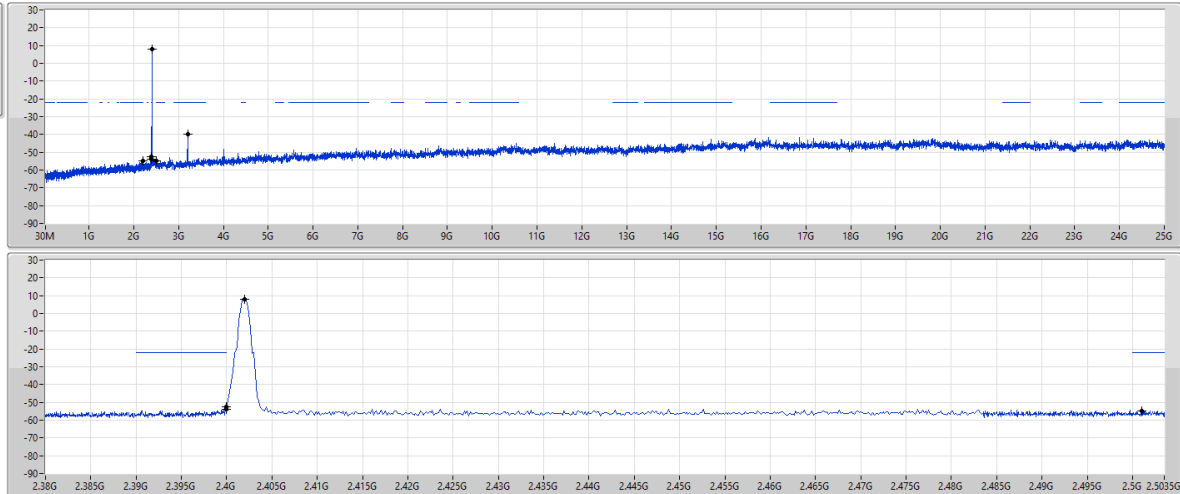
2.4-2.4835GHz_BT-LE(1Mbps)

CSEndB-DTS

2402MHz

12/12/2022

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



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.402G	8.04	-21.96	2.19788G	-55.01	2.4G	-52.64	2.4G	-53.74	2.50106G	-54.63	3.20089G	-39.77	1

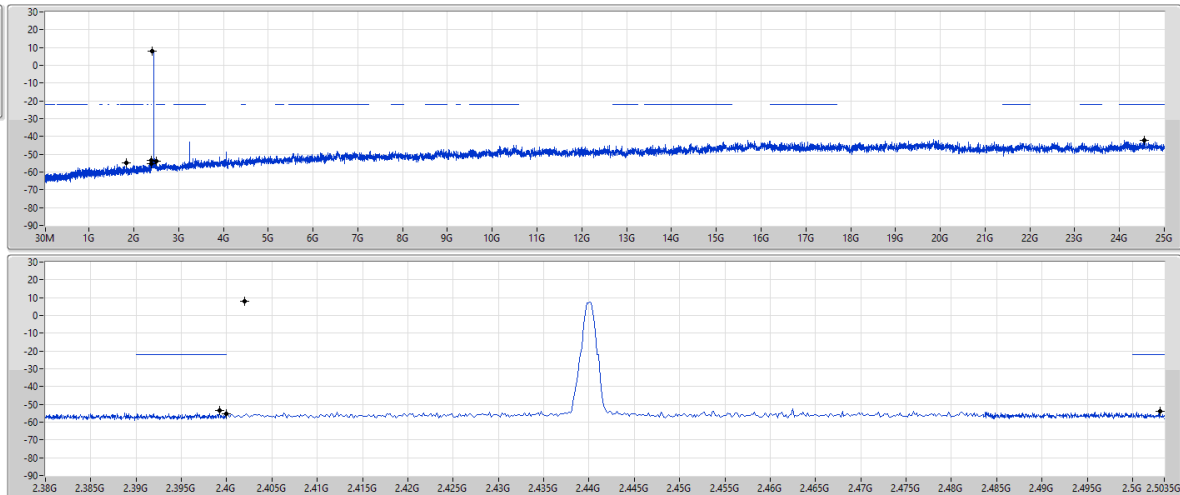
2.4-2.4835GHz_BT-LE(1Mbps)

CSEndB-DTS

2440MHz

12/12/2022

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

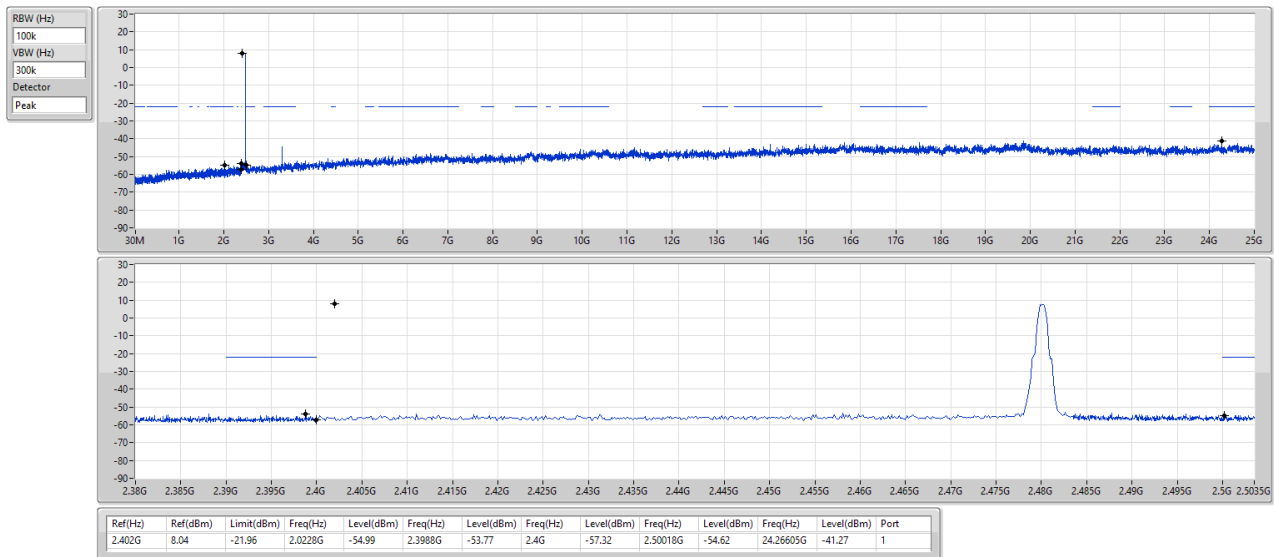


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.402G	8.04	-21.96	1.83598G	-54.73	2.3992G	-53.62	2.4G	-55.27	2.50302G	-54.04	24.55007G	-42.09	1

2.4-2.4835GHz_BT-LE(1Mbps)

CSEndB-DTS

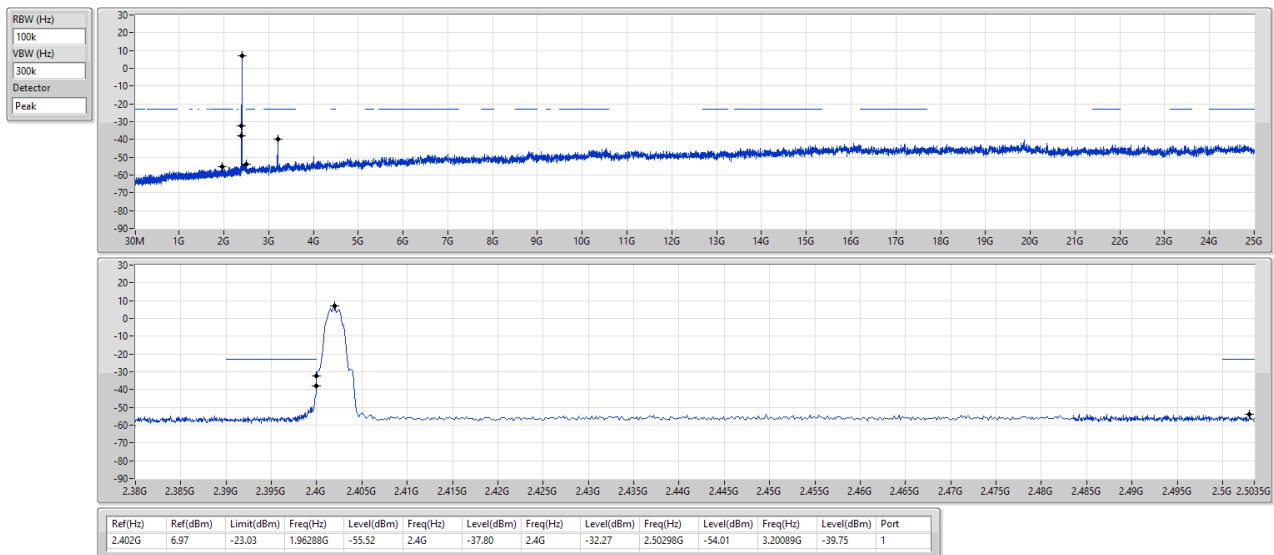
2480MHz



2.4-2.4835GHz_BT-LE(2Mbps)

CSEndB-DTS

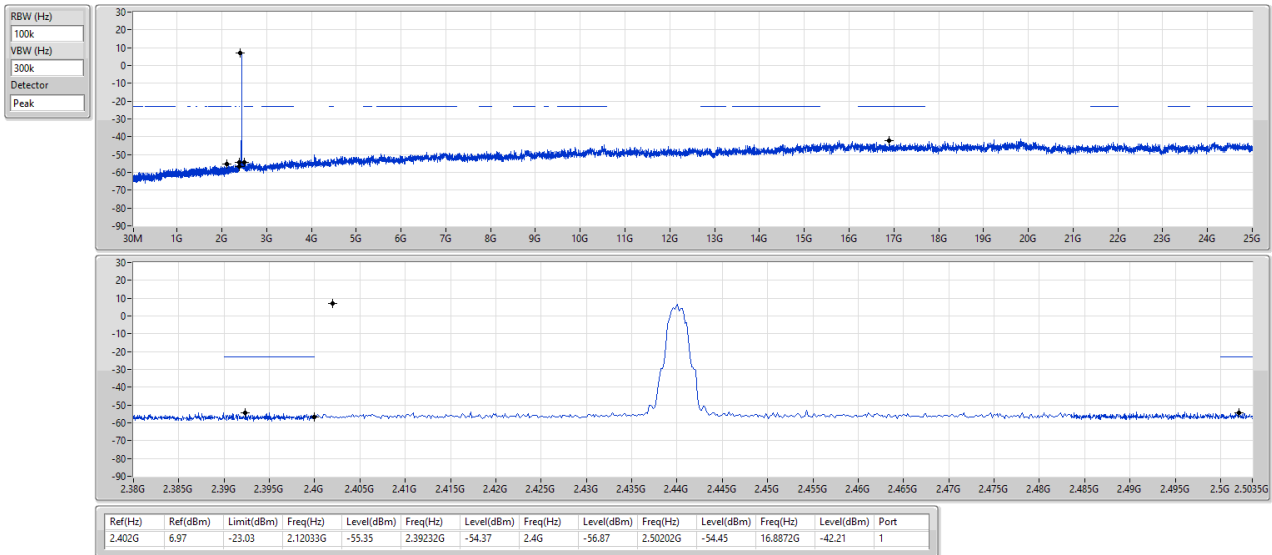
2402MHz



2.4-2.4835GHz_BT-LE(2Mbps)

CSEndB-DTS

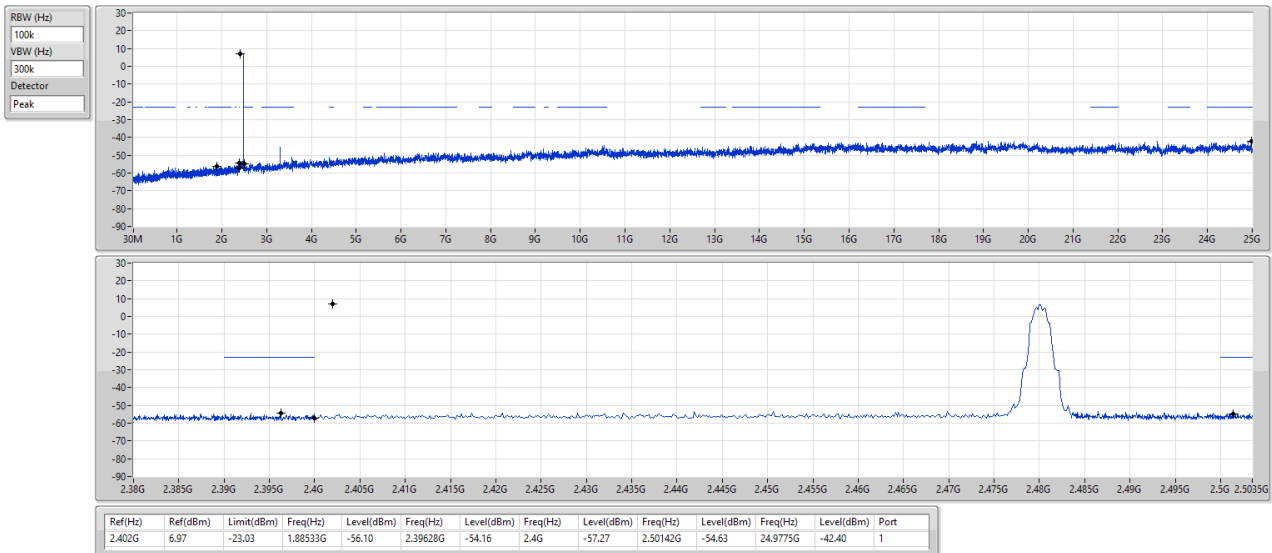
2440MHz



2.4-2.4835GHz_BT-LE(2Mbps)

CSEndB-DTS

2480MHz

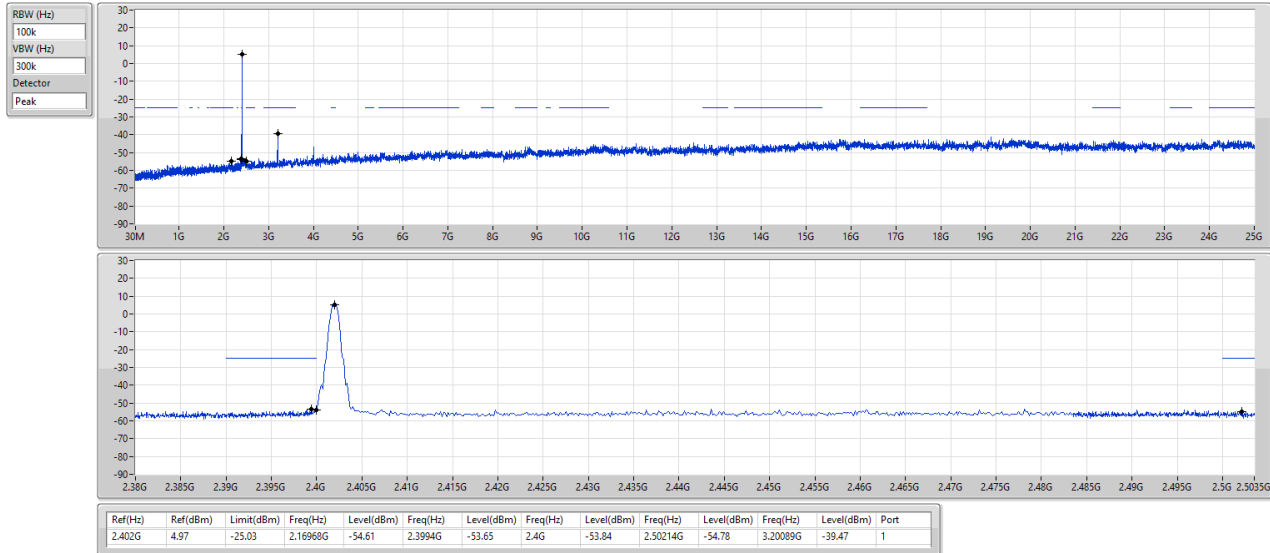


2.4-2.4835GHz_BT-LE(125kbps)

CSEndB-DTS

2402MHz

12/12/2022

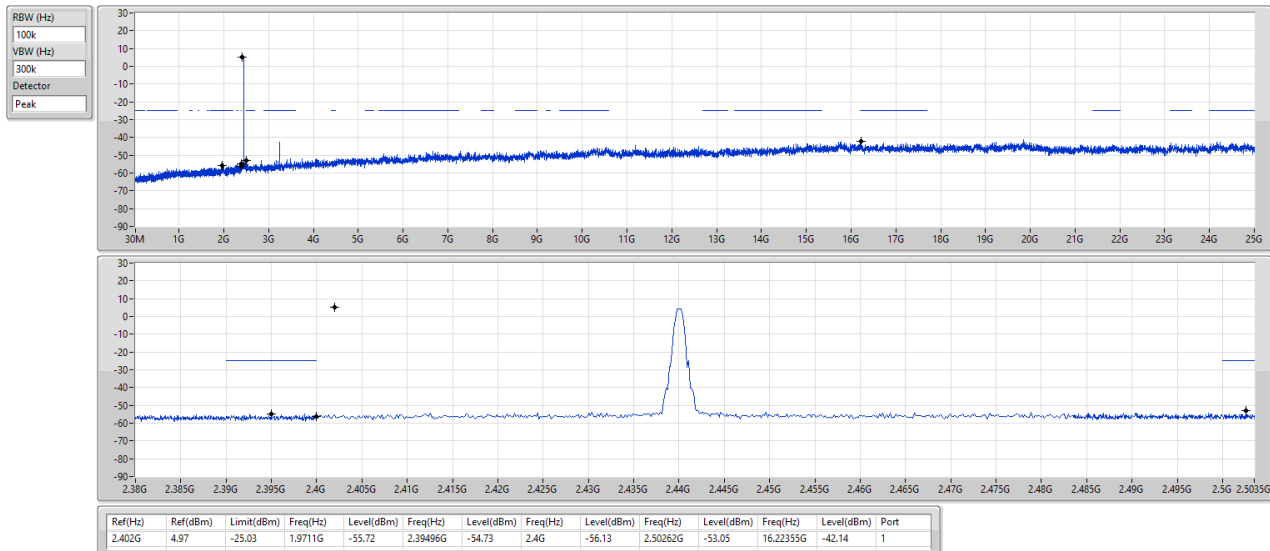


2.4-2.4835GHz_BT-LE(125kbps)

CSEndB-DTS

2440MHz

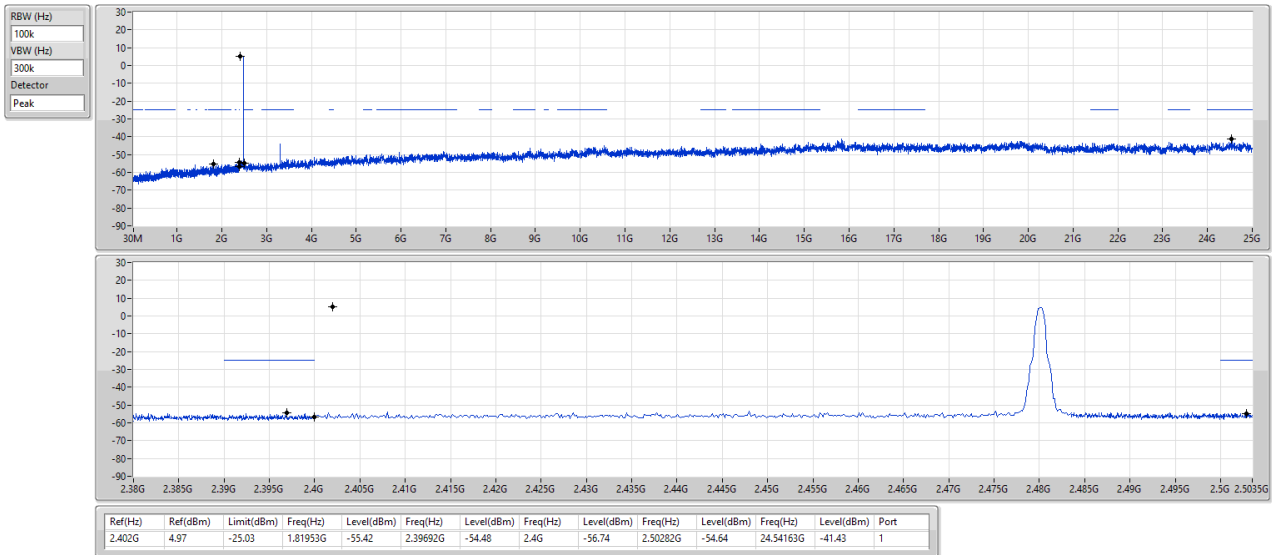
12/12/2022



2.4-2.4835GHz_BT-LE(125kbps)

CSEndB-DTS

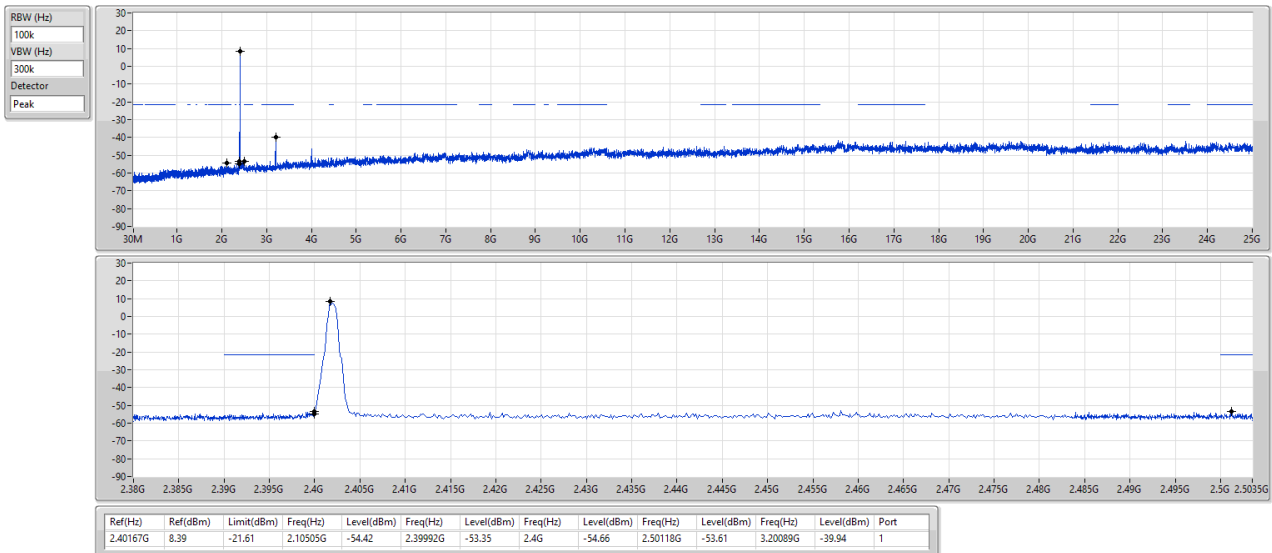
2480MHz



2.4-2.4835GHz_BT-LE(500kbps)

CSEndB-DTS

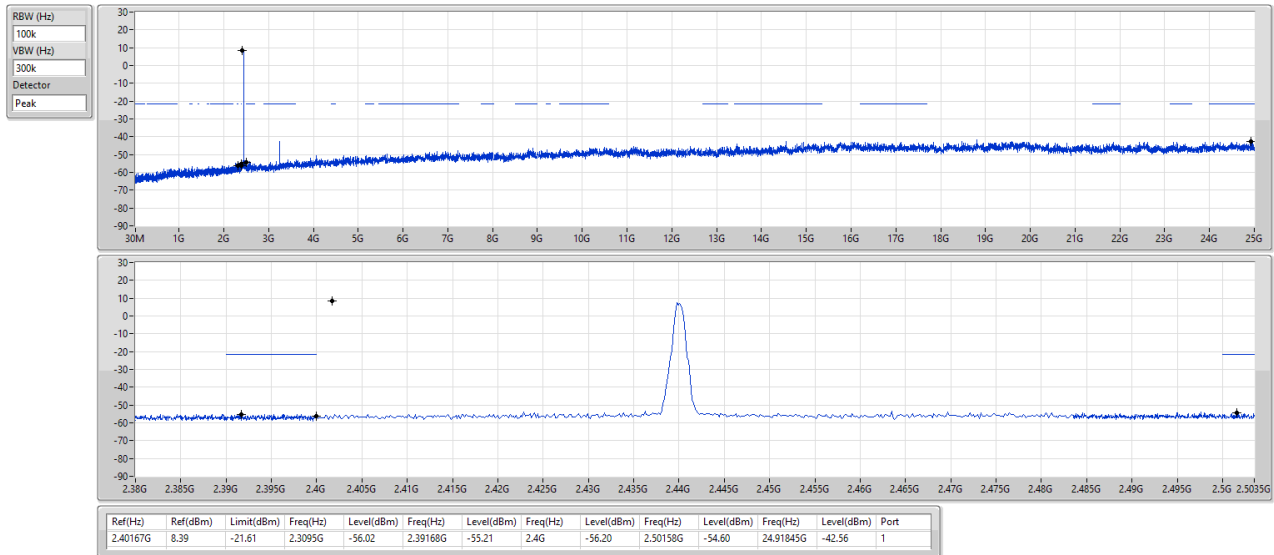
2402MHz



2.4-2.4835GHz_BT-LE(500kbps)

CSEndB-DTS

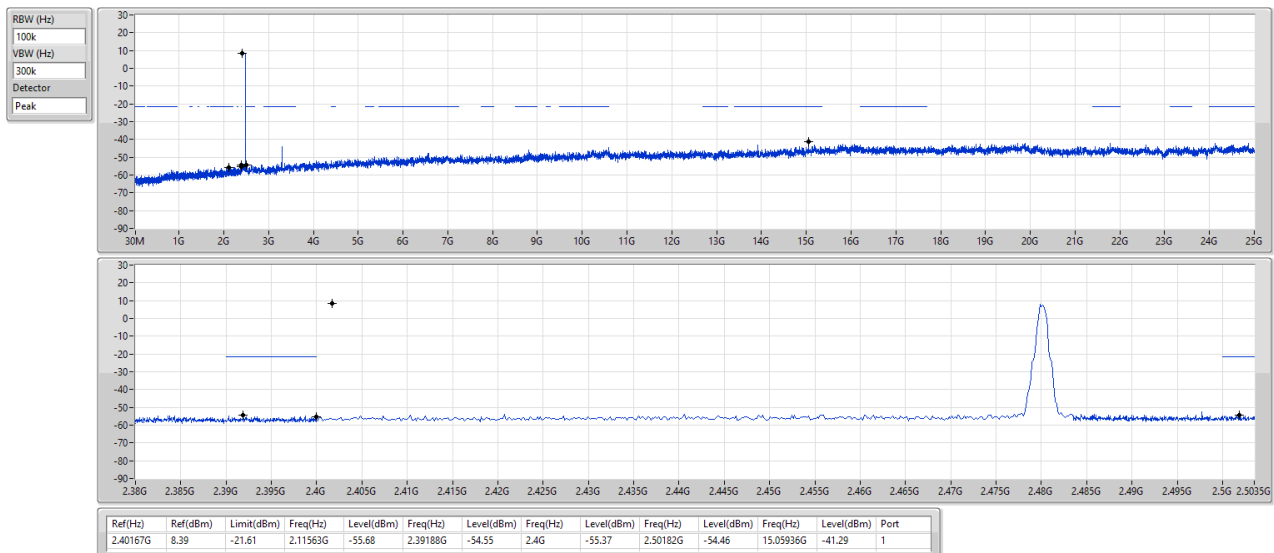
2440MHz



2.4-2.4835GHz_BT-LE(500kbps)

CSEndB-DTS

2480MHz





Summary

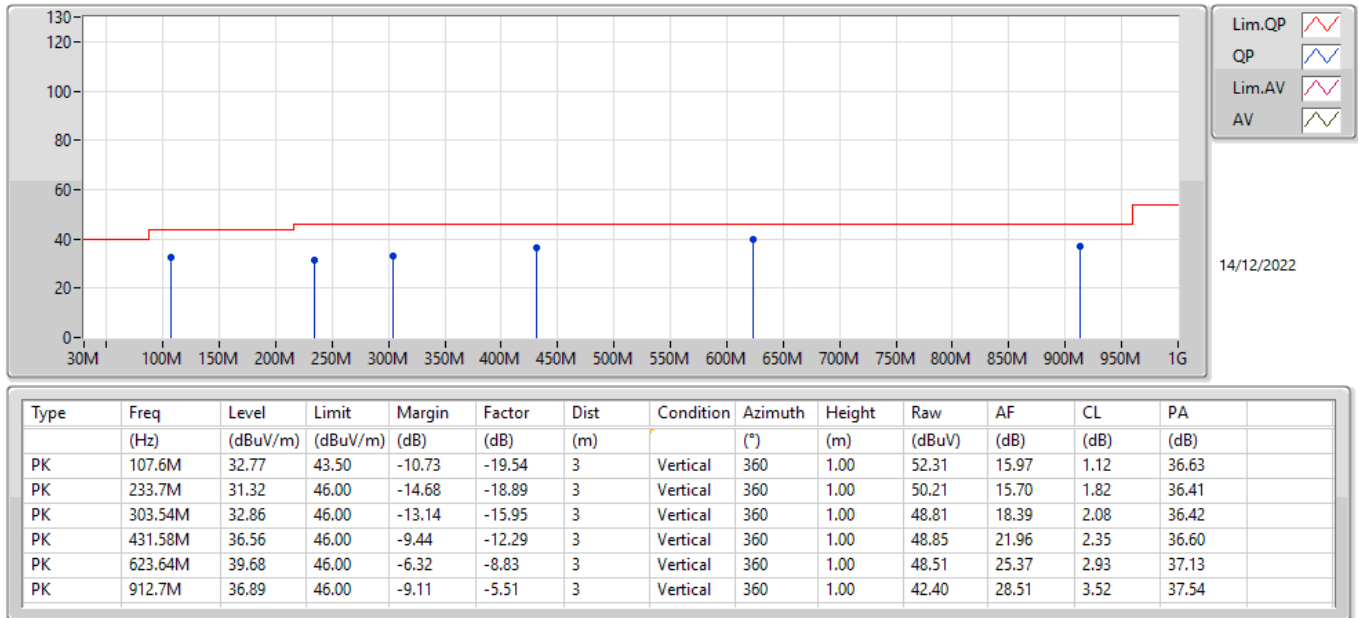
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
BT-LE(2Mbps)	Pass	PK	431.58M	40.19	46.00	-5.81	3	Horizontal	0	1.00

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-
2480MHz	Pass	PK	107.6M	32.77	43.50	-10.73	3	Vertical	360	1.00
2480MHz	Pass	PK	233.7M	31.32	46.00	-14.68	3	Vertical	360	1.00
2480MHz	Pass	PK	303.54M	32.86	46.00	-13.14	3	Vertical	360	1.00
2480MHz	Pass	PK	431.58M	36.56	46.00	-9.44	3	Vertical	360	1.00
2480MHz	Pass	PK	623.64M	39.68	46.00	-6.32	3	Vertical	360	1.00
2480MHz	Pass	PK	912.7M	36.89	46.00	-9.11	3	Vertical	360	1.00
2480MHz	Pass	PK	95.96M	31.56	43.50	-11.94	3	Horizontal	0	1.00
2480MHz	Pass	PK	233.7M	32.60	46.00	-13.40	3	Horizontal	0	1.00
2480MHz	Pass	PK	336.52M	33.78	46.00	-12.22	3	Horizontal	0	1.00
2480MHz	Pass	PK	431.58M	40.19	46.00	-5.81	3	Horizontal	0	1.00
2480MHz	Pass	PK	623.64M	38.06	46.00	-7.94	3	Horizontal	0	1.00
2480MHz	Pass	PK	912.7M	35.52	46.00	-10.48	3	Horizontal	0	1.00

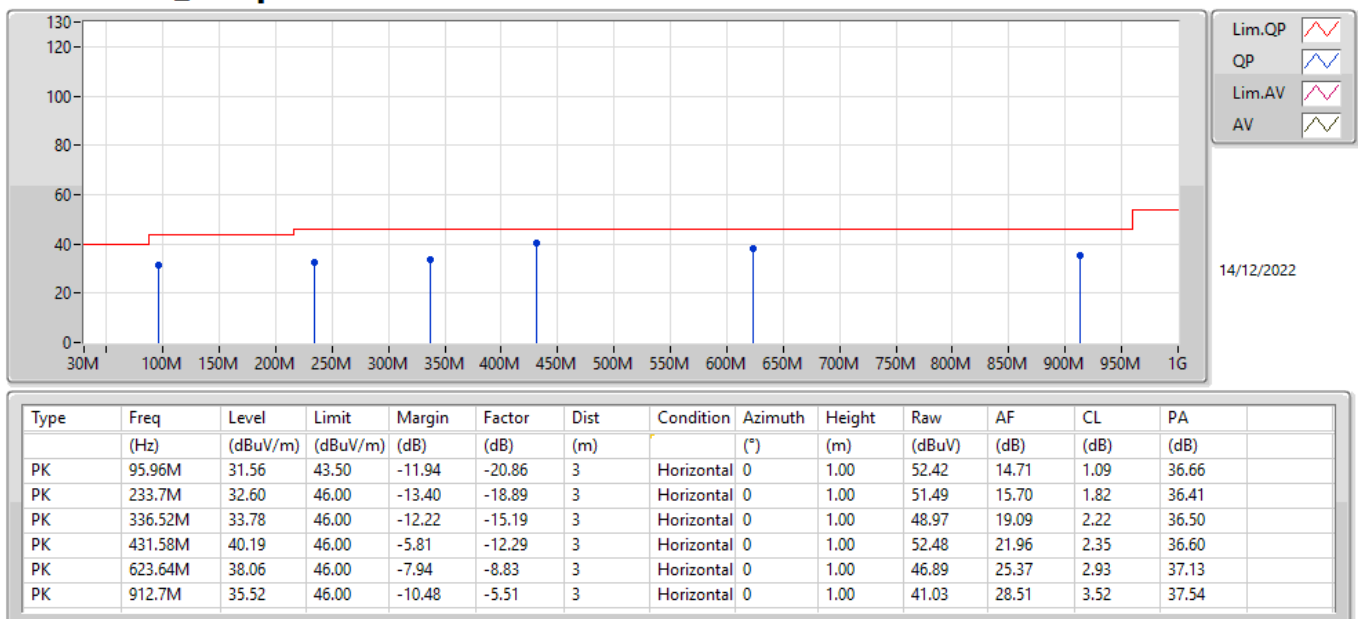
BT-LE(2Mbps)

2480MHz_Aadpter



BT-LE(2Mbps)

2480MHz_Aadpter





Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
BT-LE(125kbps)	Pass	AV	4.06668G	49.35	54.00	-4.65	3	Vertical	298	2.23
BT-LE(500kbps)	Pass	AV	4.00335G	51.39	54.00	-2.61	3	Vertical	284	2.13
BT-LE(1Mbps)	Pass	AV	4.00341G	49.62	54.00	-4.38	3	Vertical	292	2.13
BT-LE(2Mbps)	Pass	AV	4.00343G	48.79	54.00	-5.21	3	Vertical	296	2.13

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3856G	37.30	54.00	-16.70	3	Vertical	312	1.27
2402MHz	Pass	AV	2.402G	94.10	Inf	-Inf	3	Vertical	312	1.27
2402MHz	Pass	PK	2.381G	49.53	74.00	-24.47	3	Vertical	312	1.27
2402MHz	Pass	PK	2.4018G	95.70	Inf	-Inf	3	Vertical	312	1.27
2402MHz	Pass	AV	2.3842G	37.04	54.00	-16.96	3	Horizontal	61	1.47
2402MHz	Pass	AV	2.402G	93.41	Inf	-Inf	3	Horizontal	61	1.47
2402MHz	Pass	PK	2.3636G	49.07	74.00	-24.93	3	Horizontal	61	1.47
2402MHz	Pass	PK	2.4018G	95.03	Inf	-Inf	3	Horizontal	61	1.47
2402MHz	Pass	AV	4.00341G	49.62	54.00	-4.38	3	Vertical	292	2.13
2402MHz	Pass	AV	4.80403G	37.68	54.00	-16.32	3	Vertical	267	2.10
2402MHz	Pass	PK	4.00344G	53.56	74.00	-20.44	3	Vertical	292	2.13
2402MHz	Pass	PK	4.80334G	47.95	74.00	-26.05	3	Vertical	267	2.10
2402MHz	Pass	AV	4.00343G	46.45	54.00	-7.55	3	Horizontal	67	2.47
2402MHz	Pass	AV	4.804G	37.44	54.00	-16.56	3	Horizontal	81	2.16
2402MHz	Pass	PK	4.0032G	50.83	74.00	-23.17	3	Horizontal	67	2.47
2402MHz	Pass	PK	4.80473G	47.77	74.00	-26.23	3	Horizontal	81	2.16
2440MHz	Pass	AV	2.3896G	38.47	54.00	-15.53	3	Vertical	353	1.82
2440MHz	Pass	AV	2.44G	97.19	Inf	-Inf	3	Vertical	353	1.82
2440MHz	Pass	AV	2.4992G	38.92	54.00	-15.08	3	Vertical	353	1.82
2440MHz	Pass	PK	2.3584G	51.03	74.00	-22.97	3	Vertical	353	1.82
2440MHz	Pass	PK	2.44G	98.83	Inf	-Inf	3	Vertical	353	1.82
2440MHz	Pass	PK	2.4948G	51.72	74.00	-22.28	3	Vertical	353	1.82
2440MHz	Pass	AV	2.362G	38.61	54.00	-15.39	3	Horizontal	30	1.47
2440MHz	Pass	AV	2.44G	97.40	Inf	-Inf	3	Horizontal	30	1.47
2440MHz	Pass	AV	2.488G	38.75	54.00	-15.25	3	Horizontal	30	1.47
2440MHz	Pass	PK	2.3716G	50.57	74.00	-23.43	3	Horizontal	30	1.47
2440MHz	Pass	PK	2.44G	99.07	Inf	-Inf	3	Horizontal	30	1.47
2440MHz	Pass	PK	2.4936G	50.78	74.00	-23.22	3	Horizontal	30	1.47
2440MHz	Pass	AV	4.06674G	49.37	54.00	-4.63	3	Vertical	286	2.23
2440MHz	Pass	AV	4.8796G	35.55	54.00	-18.45	3	Vertical	283	2.13
2440MHz	Pass	PK	4.06689G	53.73	74.00	-20.27	3	Vertical	286	2.23
2440MHz	Pass	PK	4.88062G	47.19	74.00	-26.81	3	Vertical	283	2.13
2440MHz	Pass	AV	4.06673G	45.39	54.00	-8.61	3	Horizontal	71	2.39
2440MHz	Pass	AV	4.87964G	35.25	54.00	-18.75	3	Horizontal	28	2.26
2440MHz	Pass	PK	4.06681G	51.28	74.00	-22.72	3	Horizontal	71	2.39
2440MHz	Pass	PK	4.87982G	46.60	74.00	-27.40	3	Horizontal	28	2.26
2480MHz	Pass	AV	2.48G	98.19	Inf	-Inf	3	Vertical	350	1.84
2480MHz	Pass	AV	2.484G	39.44	54.00	-14.56	3	Vertical	350	1.84
2480MHz	Pass	PK	2.4802G	99.88	Inf	-Inf	3	Vertical	350	1.84
2480MHz	Pass	PK	2.4836G	51.79	74.00	-22.21	3	Vertical	350	1.84
2480MHz	Pass	AV	2.48G	96.32	Inf	-Inf	3	Horizontal	30	1.34
2480MHz	Pass	AV	2.4838G	39.53	54.00	-14.47	3	Horizontal	30	1.34
2480MHz	Pass	PK	2.4798G	98.01	Inf	-Inf	3	Horizontal	30	1.34
2480MHz	Pass	PK	2.4844G	52.14	74.00	-21.86	3	Horizontal	30	1.34
2480MHz	Pass	AV	4.13334G	46.13	54.00	-7.87	3	Vertical	288	2.28
2480MHz	Pass	AV	4.96207G	33.72	54.00	-20.28	3	Vertical	334	2.99
2480MHz	Pass	PK	4.13348G	51.40	74.00	-22.60	3	Vertical	288	2.28
2480MHz	Pass	PK	4.9587G	46.30	74.00	-27.70	3	Vertical	334	2.99
2480MHz	Pass	AV	4.13336G	40.60	54.00	-13.40	3	Horizontal	64	2.64
2480MHz	Pass	AV	4.95993G	34.23	54.00	-19.77	3	Horizontal	12	1.56
2480MHz	Pass	PK	4.13317G	47.91	74.00	-26.09	3	Horizontal	64	2.64
2480MHz	Pass	PK	4.95949G	46.46	74.00	-27.54	3	Horizontal	12	1.56
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3854G	40.93	54.00	-13.07	3	Vertical	302	1.30
2402MHz	Pass	AV	2.402G	94.74	Inf	-Inf	3	Vertical	302	1.30
2402MHz	Pass	PK	2.3696G	51.08	74.00	-22.92	3	Vertical	302	1.30
2402MHz	Pass	PK	2.4016G	98.07	Inf	-Inf	3	Vertical	302	1.30
2402MHz	Pass	AV	2.3724G	40.65	54.00	-13.35	3	Horizontal	49	1.43
2402MHz	Pass	AV	2.402G	97.55	Inf	-Inf	3	Horizontal	49	1.43
2402MHz	Pass	PK	2.3868G	51.15	74.00	-22.85	3	Horizontal	49	1.43

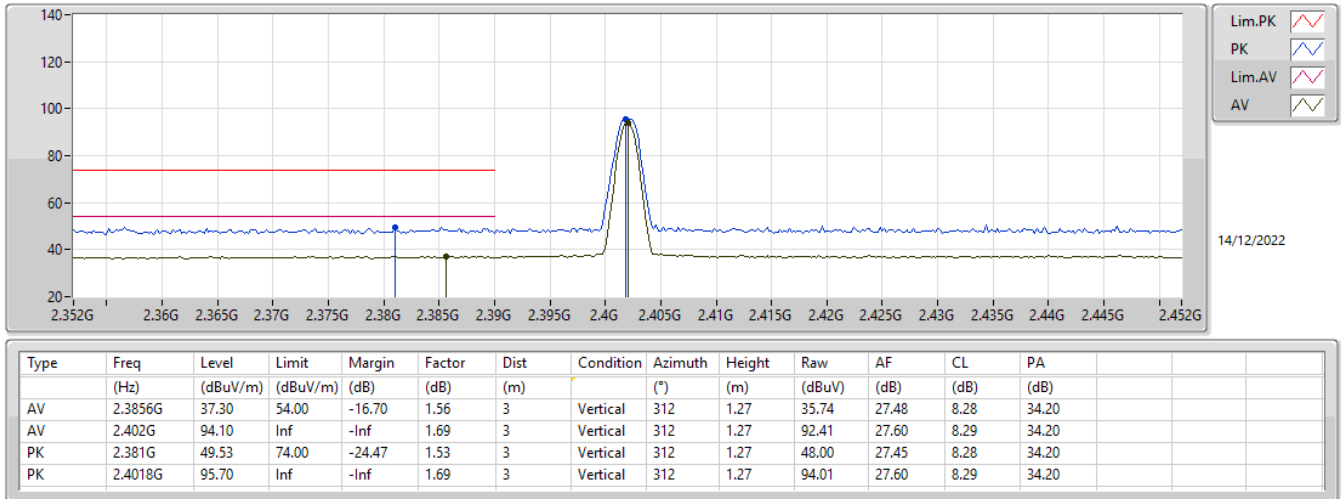
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2402MHz	Pass	PK	2.4016G	100.88	Inf	-Inf	3	Horizontal	49	1.43
2402MHz	Pass	AV	4.00343G	48.79	54.00	-5.21	3	Vertical	296	2.13
2402MHz	Pass	AV	4.80316G	37.84	54.00	-16.16	3	Vertical	277	1.04
2402MHz	Pass	PK	4.00288G	52.72	74.00	-21.28	3	Vertical	296	2.13
2402MHz	Pass	PK	4.80481G	47.96	74.00	-26.04	3	Vertical	277	1.04
2402MHz	Pass	AV	4.00354G	45.36	54.00	-8.64	3	Horizontal	68	2.49
2402MHz	Pass	AV	4.80297G	39.27	54.00	-14.73	3	Horizontal	71	2.24
2402MHz	Pass	PK	4.00371G	50.21	74.00	-23.79	3	Horizontal	68	2.49
2402MHz	Pass	PK	4.80298G	48.37	74.00	-25.63	3	Horizontal	71	2.24
2440MHz	Pass	AV	2.3604G	40.86	54.00	-13.14	3	Vertical	356	1.82
2440MHz	Pass	AV	2.44G	95.94	Inf	-Inf	3	Vertical	356	1.82
2440MHz	Pass	AV	2.4928G	40.93	54.00	-13.07	3	Vertical	356	1.82
2440MHz	Pass	PK	2.3688G	51.23	74.00	-22.77	3	Vertical	356	1.82
2440MHz	Pass	PK	2.4396G	99.49	Inf	-Inf	3	Vertical	356	1.82
2440MHz	Pass	PK	2.4948G	52.00	74.00	-22.00	3	Vertical	356	1.82
2440MHz	Pass	AV	2.3732G	40.68	54.00	-13.32	3	Horizontal	29	1.46
2440MHz	Pass	AV	2.44G	96.77	Inf	-Inf	3	Horizontal	29	1.46
2440MHz	Pass	AV	2.4968G	41.38	54.00	-12.62	3	Horizontal	29	1.46
2440MHz	Pass	PK	2.3852G	51.33	74.00	-22.67	3	Horizontal	29	1.46
2440MHz	Pass	PK	2.4396G	100.31	Inf	-Inf	3	Horizontal	29	1.46
2440MHz	Pass	PK	2.4884G	52.68	74.00	-21.32	3	Horizontal	29	1.46
2440MHz	Pass	AV	4.06677G	48.25	54.00	-5.75	3	Vertical	301	2.22
2440MHz	Pass	AV	4.87896G	36.37	54.00	-17.63	3	Vertical	306	1.38
2440MHz	Pass	PK	4.06718G	52.92	74.00	-21.08	3	Vertical	301	2.22
2440MHz	Pass	PK	4.87901G	47.23	74.00	-26.77	3	Vertical	306	1.38
2440MHz	Pass	AV	4.06692G	44.14	54.00	-9.86	3	Horizontal	72	2.43
2440MHz	Pass	AV	4.88082G	36.75	54.00	-17.25	3	Horizontal	72	2.05
2440MHz	Pass	PK	4.06621G	49.71	74.00	-24.29	3	Horizontal	72	2.43
2440MHz	Pass	PK	4.87933G	47.03	74.00	-26.97	3	Horizontal	72	2.05
2480MHz	Pass	AV	2.48G	97.03	Inf	-Inf	3	Vertical	346	1.82
2480MHz	Pass	AV	2.4835G	42.79	54.00	-11.21	3	Vertical	346	1.82
2480MHz	Pass	PK	2.4796G	100.49	Inf	-Inf	3	Vertical	346	1.82
2480MHz	Pass	PK	2.4908G	52.42	74.00	-21.58	3	Vertical	346	1.82
2480MHz	Pass	AV	2.48G	96.38	Inf	-Inf	3	Horizontal	19	2.22
2480MHz	Pass	AV	2.4835G	41.90	54.00	-12.10	3	Horizontal	19	2.22
2480MHz	Pass	PK	2.4794G	99.90	Inf	-Inf	3	Horizontal	19	2.22
2480MHz	Pass	PK	2.4944G	52.86	74.00	-21.14	3	Horizontal	19	2.22
2480MHz	Pass	AV	4.13347G	44.73	54.00	-9.27	3	Vertical	290	2.30
2480MHz	Pass	AV	4.95843G	35.60	54.00	-18.40	3	Vertical	204	1.50
2480MHz	Pass	PK	4.1329G	50.35	74.00	-23.65	3	Vertical	290	2.30
2480MHz	Pass	PK	4.961G	46.06	74.00	-27.94	3	Vertical	204	1.50
2480MHz	Pass	AV	4.13343G	40.51	54.00	-13.49	3	Horizontal	72	2.30
2480MHz	Pass	AV	4.96164G	35.41	54.00	-18.59	3	Horizontal	0	1.50
2480MHz	Pass	PK	4.13397G	48.26	74.00	-25.74	3	Horizontal	72	2.30
2480MHz	Pass	PK	4.96236G	46.23	74.00	-27.77	3	Horizontal	0	1.50
BT-LE(125kbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.378G	38.81	54.00	-15.19	3	Vertical	303	2.63
2402MHz	Pass	AV	2.402G	96.79	Inf	-Inf	3	Vertical	303	2.63
2402MHz	Pass	PK	2.36G	51.67	74.00	-22.33	3	Vertical	303	2.63
2402MHz	Pass	PK	2.4018G	98.43	Inf	-Inf	3	Vertical	303	2.63
2402MHz	Pass	AV	2.3852G	38.90	54.00	-15.10	3	Horizontal	50	1.48
2402MHz	Pass	AV	2.402G	99.42	Inf	-Inf	3	Horizontal	50	1.48
2402MHz	Pass	PK	2.3884G	51.63	74.00	-22.37	3	Horizontal	50	1.48
2402MHz	Pass	PK	2.4018G	101.05	Inf	-Inf	3	Horizontal	50	1.48
2402MHz	Pass	AV	4.00338G	48.95	54.00	-5.05	3	Vertical	288	2.13
2402MHz	Pass	AV	4.8043G	36.31	54.00	-17.69	3	Vertical	286	1.95
2402MHz	Pass	PK	4.00325G	53.56	74.00	-20.44	3	Vertical	288	2.13
2402MHz	Pass	PK	4.80428G	48.07	74.00	-25.93	3	Vertical	286	1.95
2402MHz	Pass	AV	4.00334G	45.46	54.00	-8.54	3	Horizontal	65	2.47
2402MHz	Pass	AV	4.80403G	37.83	54.00	-16.17	3	Horizontal	71	2.15
2402MHz	Pass	PK	4.00315G	50.55	74.00	-23.45	3	Horizontal	65	2.47
2402MHz	Pass	PK	4.80361G	48.90	74.00	-25.10	3	Horizontal	71	2.15

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2440MHz	Pass	AV	2.3888G	38.68	54.00	-15.32	3	Vertical	349	1.77
2440MHz	Pass	AV	2.44G	98.65	Inf	-Inf	3	Vertical	349	1.77
2440MHz	Pass	AV	2.4976G	39.16	54.00	-14.84	3	Vertical	349	1.77
2440MHz	Pass	PK	2.3408G	51.81	74.00	-22.19	3	Vertical	349	1.77
2440MHz	Pass	PK	2.4396G	99.98	Inf	-Inf	3	Vertical	349	1.77
2440MHz	Pass	PK	2.4884G	52.05	74.00	-21.95	3	Vertical	349	1.77
2440MHz	Pass	AV	2.3876G	38.88	54.00	-15.12	3	Horizontal	55	1.46
2440MHz	Pass	AV	2.44G	99.81	Inf	-Inf	3	Horizontal	55	1.46
2440MHz	Pass	AV	2.4936G	39.03	54.00	-14.97	3	Horizontal	55	1.46
2440MHz	Pass	PK	2.3812G	51.77	74.00	-22.23	3	Horizontal	55	1.46
2440MHz	Pass	PK	2.4396G	101.51	Inf	-Inf	3	Horizontal	55	1.46
2440MHz	Pass	PK	2.498G	51.60	74.00	-22.40	3	Horizontal	55	1.46
2440MHz	Pass	AV	4.06668G	49.35	54.00	-4.65	3	Vertical	298	2.23
2440MHz	Pass	AV	4.8802G	34.89	54.00	-19.11	3	Vertical	280	2.12
2440MHz	Pass	PK	4.06682G	54.72	74.00	-19.28	3	Vertical	298	2.23
2440MHz	Pass	PK	4.87931G	47.16	74.00	-26.84	3	Vertical	280	2.12
2440MHz	Pass	AV	4.06671G	45.06	54.00	-8.94	3	Horizontal	72	2.41
2440MHz	Pass	AV	4.88029G	34.48	54.00	-19.52	3	Horizontal	20	2.13
2440MHz	Pass	PK	4.06692G	51.34	74.00	-22.66	3	Horizontal	72	2.41
2440MHz	Pass	PK	4.87983G	48.01	74.00	-25.99	3	Horizontal	20	2.13
2480MHz	Pass	AV	2.48G	101.24	Inf	-Inf	3	Vertical	352	1.48
2480MHz	Pass	AV	2.4835G	39.54	54.00	-14.46	3	Vertical	352	1.48
2480MHz	Pass	PK	2.4802G	102.93	Inf	-Inf	3	Vertical	352	1.48
2480MHz	Pass	PK	2.4848G	52.39	74.00	-21.61	3	Vertical	352	1.48
2480MHz	Pass	AV	2.48G	100.26	Inf	-Inf	3	Horizontal	22	2.23
2480MHz	Pass	AV	2.4835G	39.87	54.00	-14.13	3	Horizontal	22	2.23
2480MHz	Pass	PK	2.4802G	102.03	Inf	-Inf	3	Horizontal	22	2.23
2480MHz	Pass	PK	2.4892G	52.77	74.00	-21.23	3	Horizontal	22	2.23
2480MHz	Pass	AV	4.13331G	45.61	54.00	-8.39	3	Vertical	288	2.29
2480MHz	Pass	AV	4.96036G	33.65	54.00	-20.35	3	Vertical	240	1.88
2480MHz	Pass	PK	4.13333G	52.14	74.00	-21.86	3	Vertical	288	2.29
2480MHz	Pass	PK	4.9598G	46.73	74.00	-27.27	3	Vertical	240	1.88
2480MHz	Pass	AV	4.13331G	41.13	54.00	-12.87	3	Horizontal	72	2.31
2480MHz	Pass	AV	4.95964G	33.75	54.00	-20.25	3	Horizontal	21	1.84
2480MHz	Pass	PK	4.13345G	48.86	74.00	-25.14	3	Horizontal	72	2.31
2480MHz	Pass	PK	4.96056G	47.06	74.00	-26.94	3	Horizontal	21	1.84
BT-LE(500kbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3888G	38.90	54.00	-15.10	3	Vertical	302	2.63
2402MHz	Pass	AV	2.402G	98.24	Inf	-Inf	3	Vertical	302	2.63
2402MHz	Pass	PK	2.368G	52.29	74.00	-21.71	3	Vertical	302	2.63
2402MHz	Pass	PK	2.4022G	99.96	Inf	-Inf	3	Vertical	302	2.63
2402MHz	Pass	AV	2.3872G	39.04	54.00	-14.96	3	Horizontal	51	1.46
2402MHz	Pass	AV	2.402G	100.49	Inf	-Inf	3	Horizontal	51	1.46
2402MHz	Pass	PK	2.377G	51.92	74.00	-22.08	3	Horizontal	51	1.46
2402MHz	Pass	PK	2.4022G	102.32	Inf	-Inf	3	Horizontal	51	1.46
2402MHz	Pass	AV	4.00335G	51.39	54.00	-2.61	3	Vertical	284	2.13
2402MHz	Pass	AV	4.80384G	37.26	54.00	-16.74	3	Vertical	301	1.04
2402MHz	Pass	PK	4.00328G	55.47	74.00	-18.53	3	Vertical	284	2.13
2402MHz	Pass	PK	4.80426G	48.12	74.00	-25.88	3	Vertical	301	1.04
2402MHz	Pass	AV	4.00339G	46.59	54.00	-7.41	3	Horizontal	67	2.48
2402MHz	Pass	AV	4.80402G	37.86	54.00	-16.14	3	Horizontal	73	2.12
2402MHz	Pass	PK	4.00328G	50.83	74.00	-23.17	3	Horizontal	67	2.48
2402MHz	Pass	PK	4.80351G	49.39	74.00	-24.61	3	Horizontal	73	2.12
2440MHz	Pass	AV	2.3816G	38.91	54.00	-15.09	3	Vertical	353	2.57
2440MHz	Pass	AV	2.44G	98.72	Inf	-Inf	3	Vertical	353	2.57
2440MHz	Pass	AV	2.4944G	39.28	54.00	-14.72	3	Vertical	353	2.57
2440MHz	Pass	PK	2.3708G	51.69	74.00	-22.31	3	Vertical	353	2.57
2440MHz	Pass	PK	2.4404G	100.43	Inf	-Inf	3	Vertical	353	2.57
2440MHz	Pass	PK	2.494G	52.67	74.00	-21.33	3	Vertical	353	2.57
2440MHz	Pass	AV	2.378G	38.85	54.00	-15.15	3	Horizontal	54	1.45
2440MHz	Pass	AV	2.44G	100.06	Inf	-Inf	3	Horizontal	54	1.45
2440MHz	Pass	AV	2.4964G	39.30	54.00	-14.70	3	Horizontal	54	1.45

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2440MHz	Pass	PK	2.3784G	51.49	74.00	-22.51	3	Horizontal	54	1.45
2440MHz	Pass	PK	2.4404G	101.82	Inf	-Inf	3	Horizontal	54	1.45
2440MHz	Pass	PK	2.4924G	52.26	74.00	-21.74	3	Horizontal	54	1.45
2440MHz	Pass	AV	4.06673G	48.98	54.00	-5.02	3	Vertical	289	2.23
2440MHz	Pass	AV	4.87996G	34.42	54.00	-19.58	3	Vertical	294	1.91
2440MHz	Pass	PK	4.06663G	53.40	74.00	-20.60	3	Vertical	289	2.23
2440MHz	Pass	PK	4.88042G	47.07	74.00	-26.93	3	Vertical	294	1.91
2440MHz	Pass	AV	4.06667G	44.24	54.00	-9.76	3	Horizontal	61	2.20
2440MHz	Pass	AV	4.8804G	33.90	54.00	-20.10	3	Horizontal	12	1.83
2440MHz	Pass	PK	4.06668G	50.10	74.00	-23.90	3	Horizontal	61	2.20
2440MHz	Pass	PK	4.87942G	46.63	74.00	-27.37	3	Horizontal	12	1.83
2480MHz	Pass	AV	2.48G	101.00	Inf	-Inf	3	Vertical	354	1.48
2480MHz	Pass	AV	2.484G	39.43	54.00	-14.57	3	Vertical	354	1.48
2480MHz	Pass	PK	2.4798G	102.83	Inf	-Inf	3	Vertical	354	1.48
2480MHz	Pass	PK	2.4968G	52.21	74.00	-21.79	3	Vertical	354	1.48
2480MHz	Pass	AV	2.48G	100.20	Inf	-Inf	3	Horizontal	19	3.00
2480MHz	Pass	AV	2.4836G	39.34	54.00	-14.66	3	Horizontal	19	3.00
2480MHz	Pass	PK	2.4798G	101.96	Inf	-Inf	3	Horizontal	19	3.00
2480MHz	Pass	PK	2.496G	52.43	74.00	-21.57	3	Horizontal	19	3.00
2480MHz	Pass	AV	4.13335G	45.47	54.00	-8.53	3	Vertical	290	2.28
2480MHz	Pass	AV	4.95969G	33.37	54.00	-20.63	3	Vertical	250	2.80
2480MHz	Pass	PK	4.1335G	51.20	74.00	-22.80	3	Vertical	290	2.28
2480MHz	Pass	PK	4.95878G	46.09	74.00	-27.91	3	Vertical	250	2.80
2480MHz	Pass	AV	4.13335G	40.45	54.00	-13.55	3	Horizontal	65	2.33
2480MHz	Pass	AV	4.96041G	33.45	54.00	-20.55	3	Horizontal	24	2.13
2480MHz	Pass	PK	4.13339G	47.93	74.00	-26.07	3	Horizontal	65	2.33
2480MHz	Pass	PK	4.96012G	46.30	74.00	-27.70	3	Horizontal	24	2.13

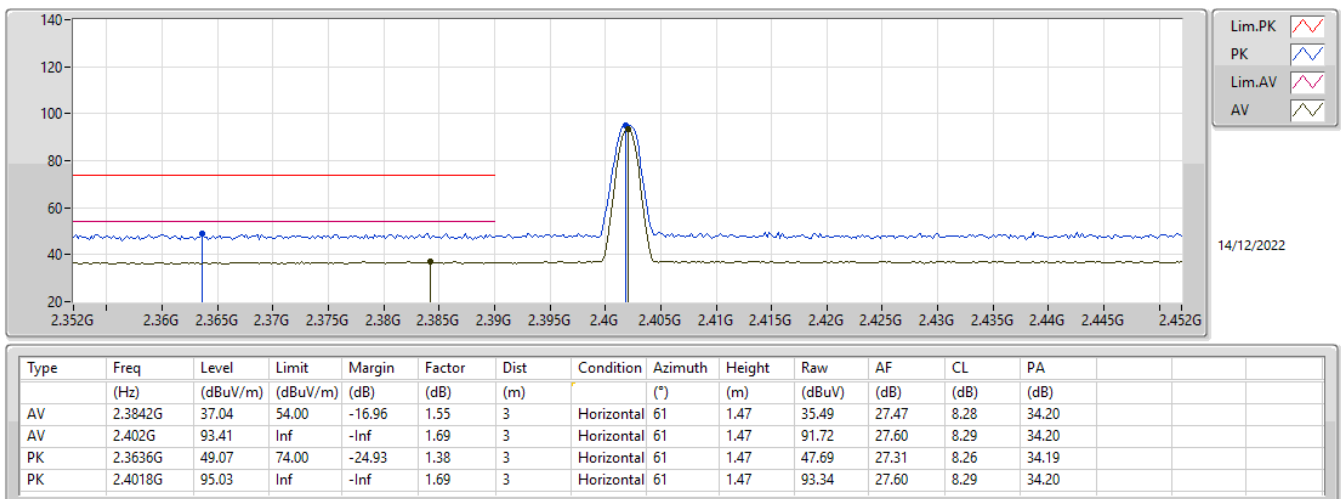
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2402MHz_TX



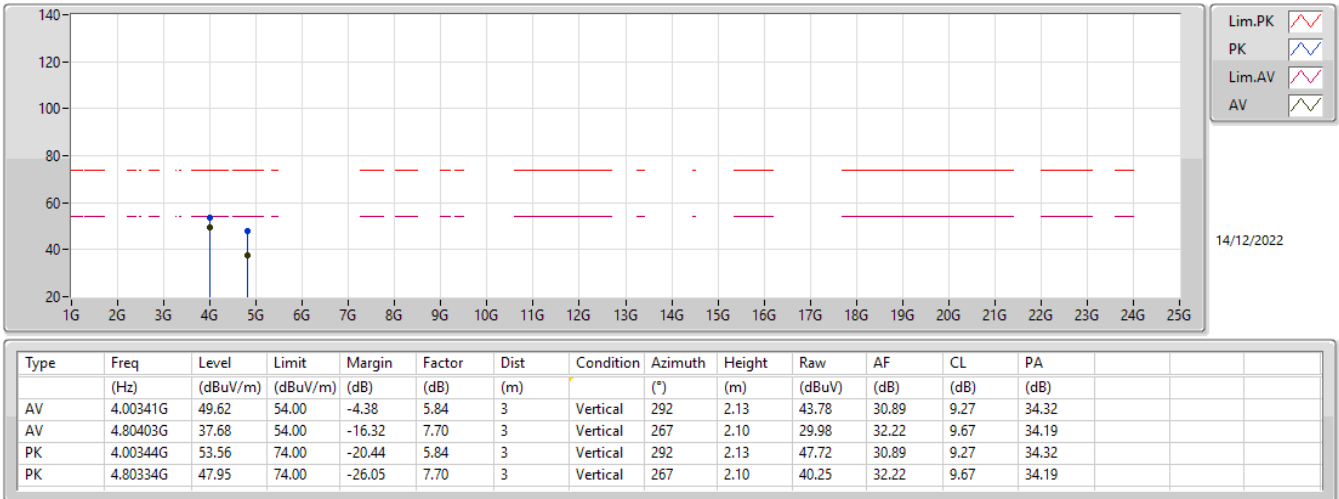
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2402MHz_TX



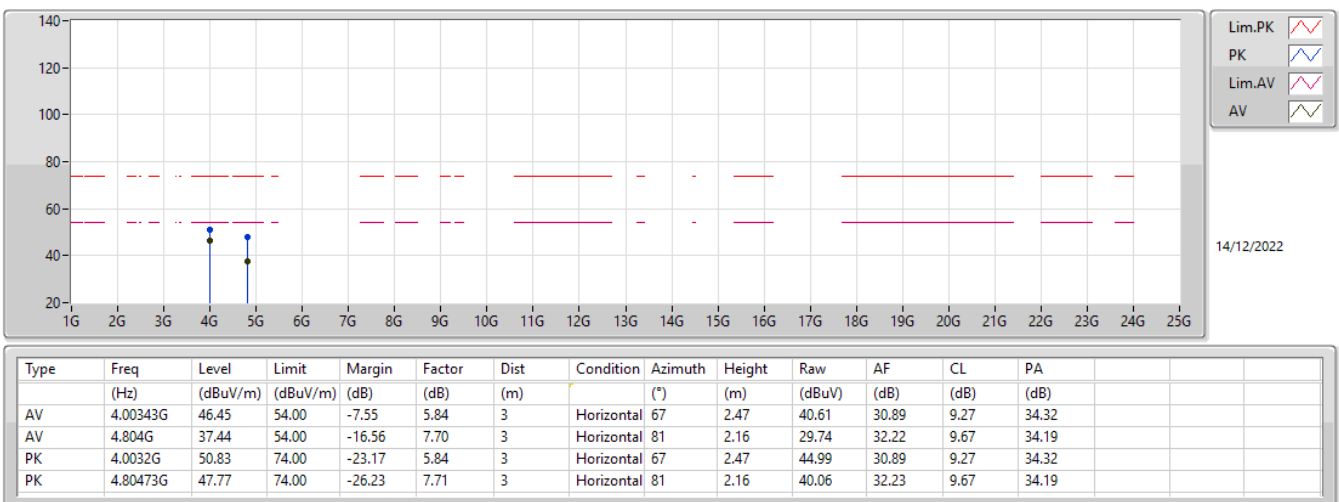
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2402MHz_TX



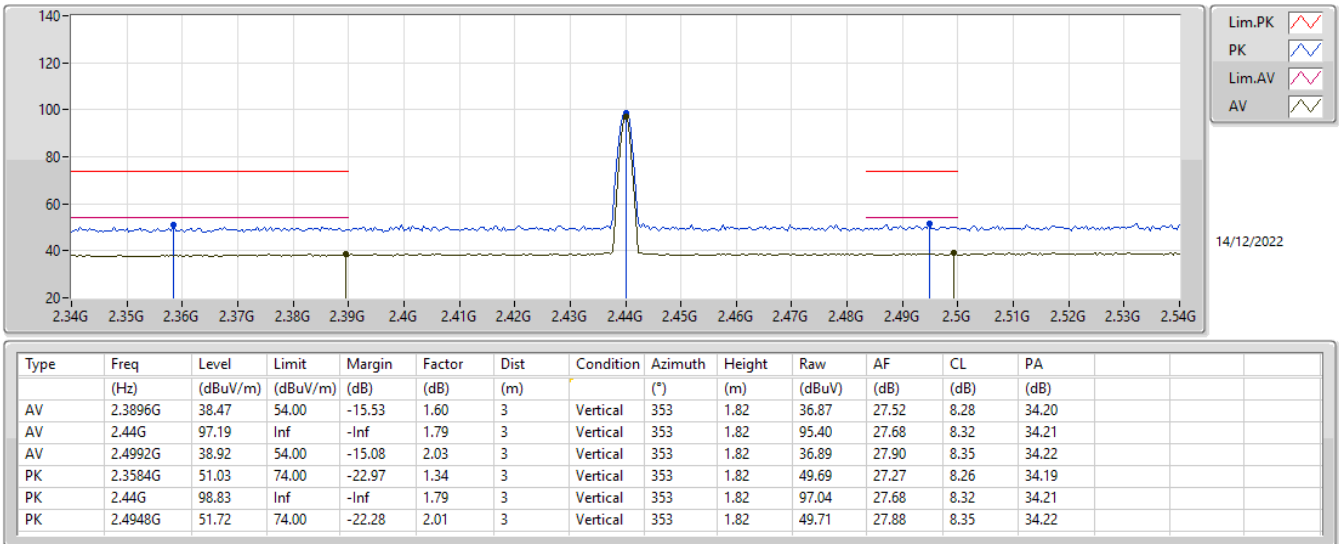
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2402MHz_TX



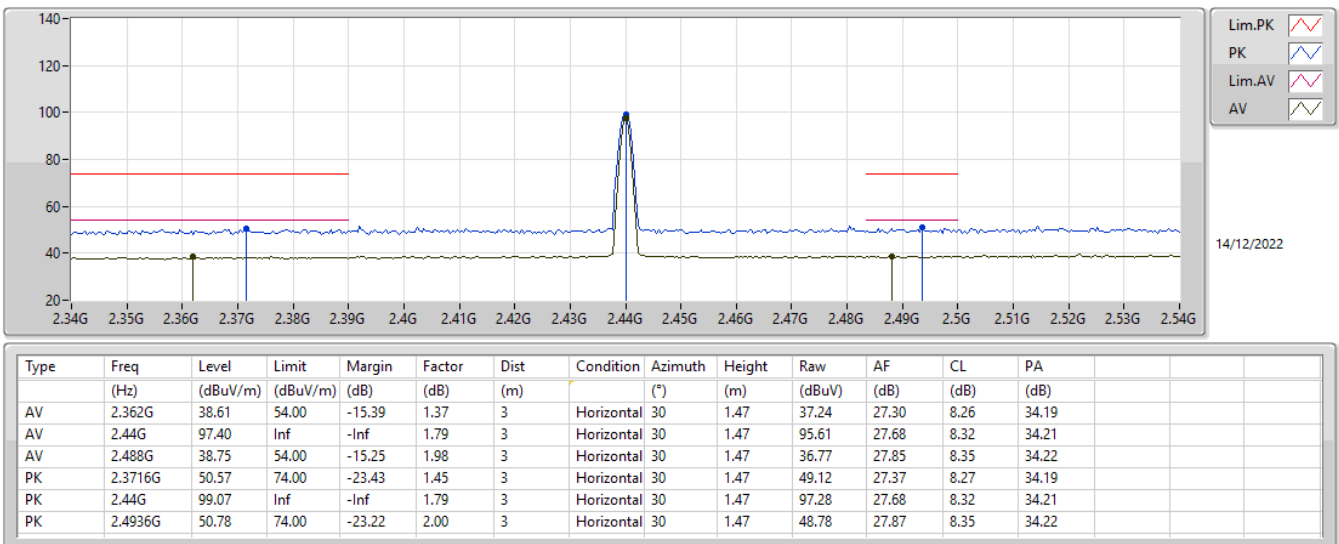
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2440MHz_TX



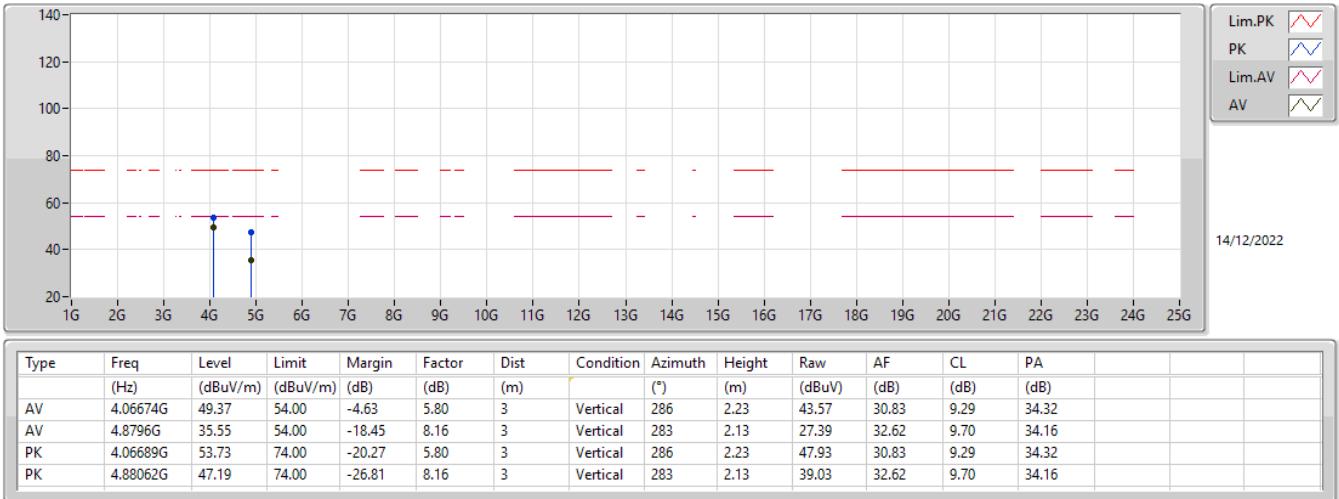
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2440MHz_TX



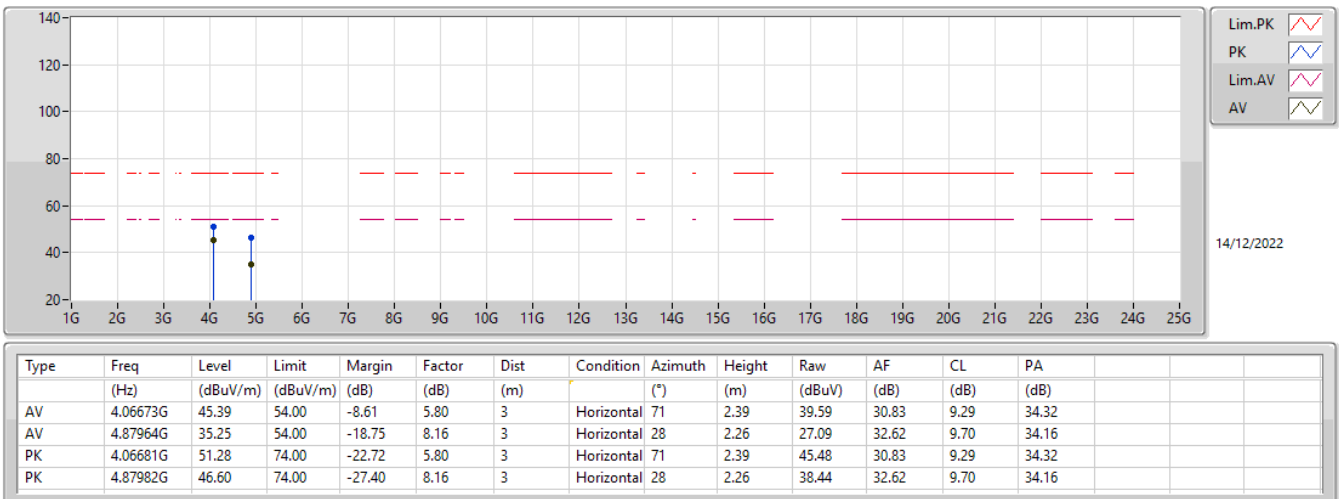
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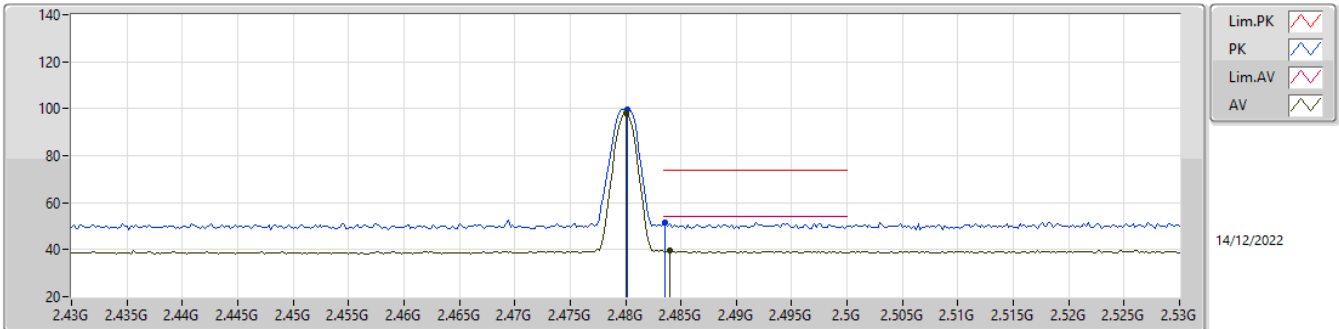
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2440MHz_TX



2.4-2.4835GHz_BT-LE(1Mbps)

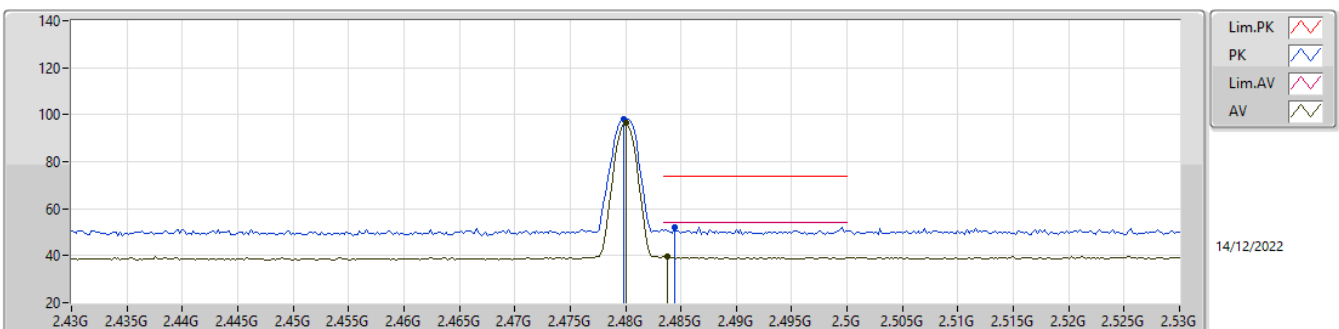
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.48G	98.19	Inf	-Inf	1.94	3	Vertical	350	1.84	96.25	27.82	8.34	34.22
AV	2.484G	39.44	54.00	-14.56	1.96	3	Vertical	350	1.84	37.48	27.84	8.34	34.22
PK	2.4802G	99.88	Inf	-Inf	1.94	3	Vertical	350	1.84	97.94	27.82	8.34	34.22
PK	2.4836G	51.79	74.00	-22.21	1.95	3	Vertical	350	1.84	49.84	27.83	8.34	34.22

2.4-2.4835GHz_BT-LE(1Mbps)

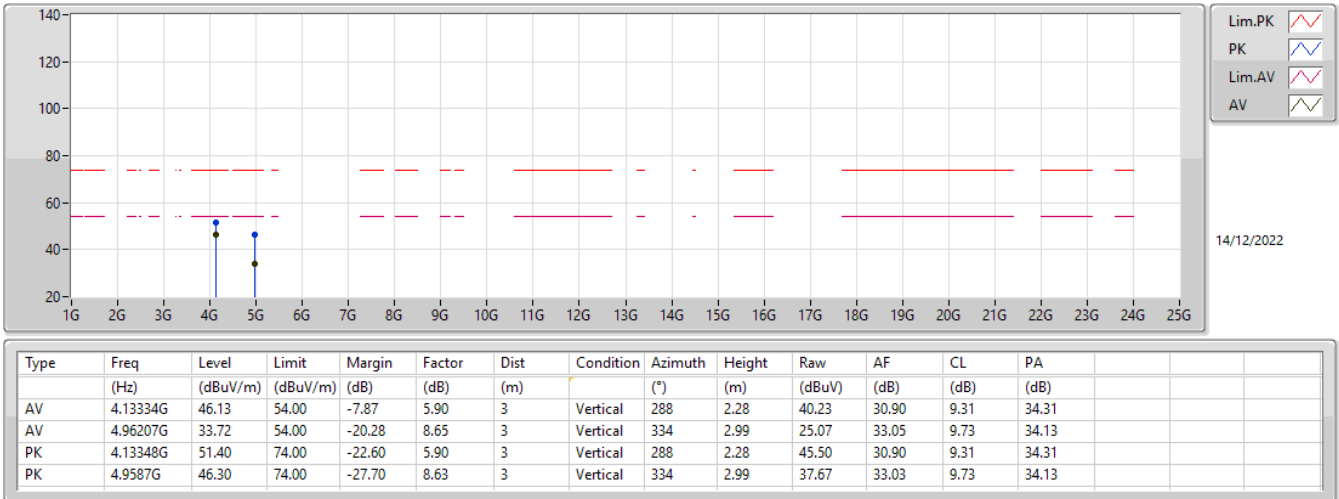
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.48G	96.32	Inf	-Inf	1.94	3	Horizontal	30	1.34	94.38	27.82	8.34	34.22
AV	2.4838G	39.53	54.00	-14.47	1.96	3	Horizontal	30	1.34	37.57	27.84	8.34	34.22
PK	2.4798G	98.01	Inf	-Inf	1.94	3	Horizontal	30	1.34	96.07	27.82	8.34	34.22
PK	2.4844G	52.14	74.00	-21.86	1.96	3	Horizontal	30	1.34	50.18	27.84	8.34	34.22

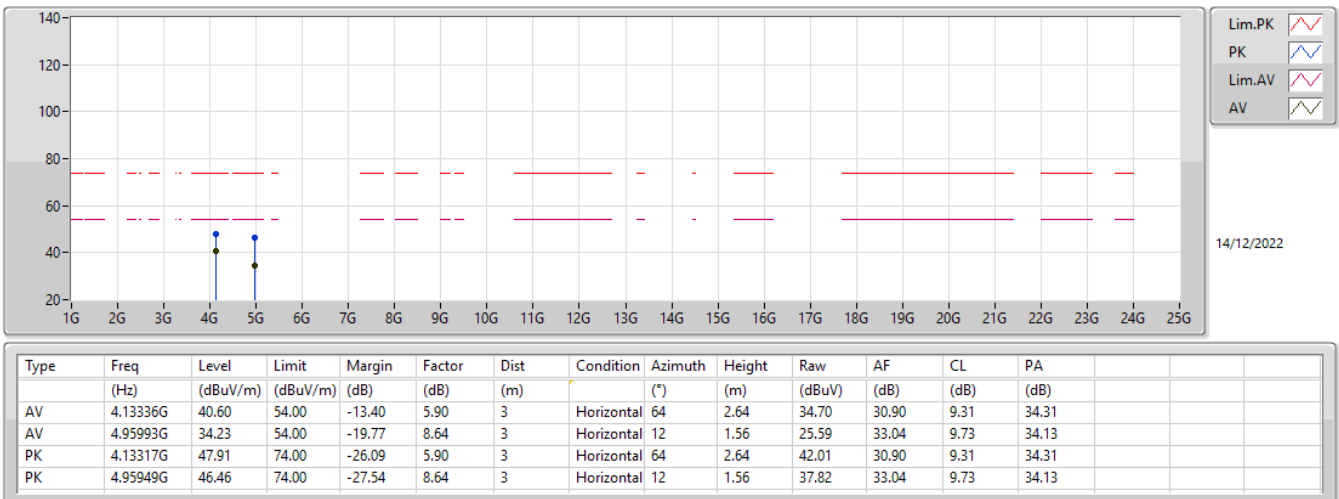
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2480MHz_TX



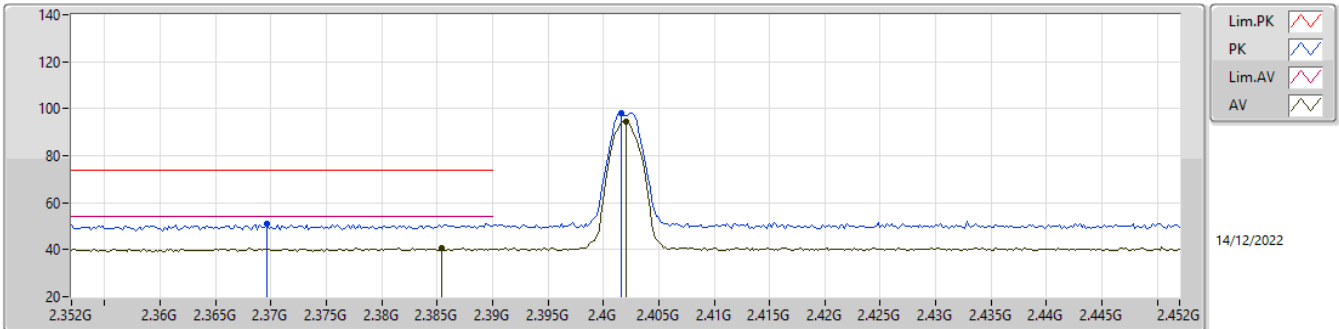
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2480MHz_TX



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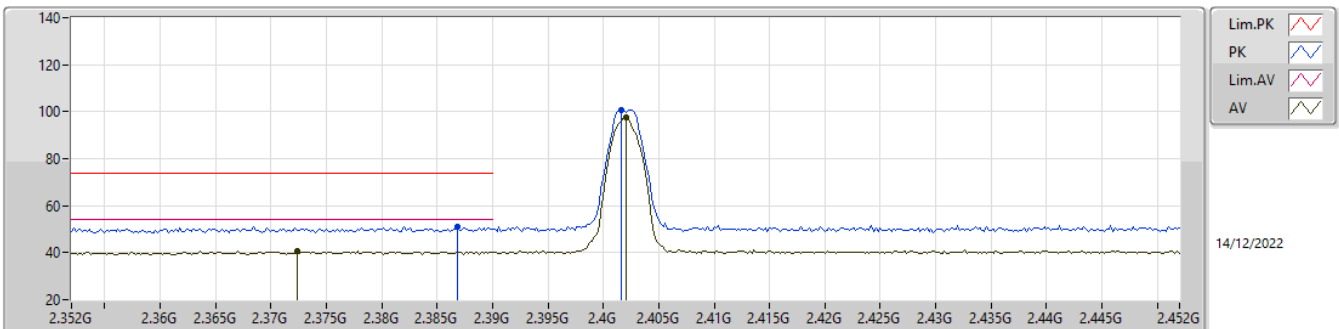
2402MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.3854G	40.93	54.00	-13.07	1.56	3	Vertical	302	1.30	39.37	27.48	8.28	34.20
AV	2.402G	94.74	Inf	-Inf	1.69	3	Vertical	302	1.30	93.05	27.60	8.29	34.20
PK	2.3696G	51.08	74.00	-22.92	1.44	3	Vertical	302	1.30	49.64	27.36	8.27	34.19
PK	2.4016G	98.07	Inf	-Inf	1.69	3	Vertical	302	1.30	96.38	27.60	8.29	34.20

2.4-2.4835GHz_BT-LE(2Mbps)

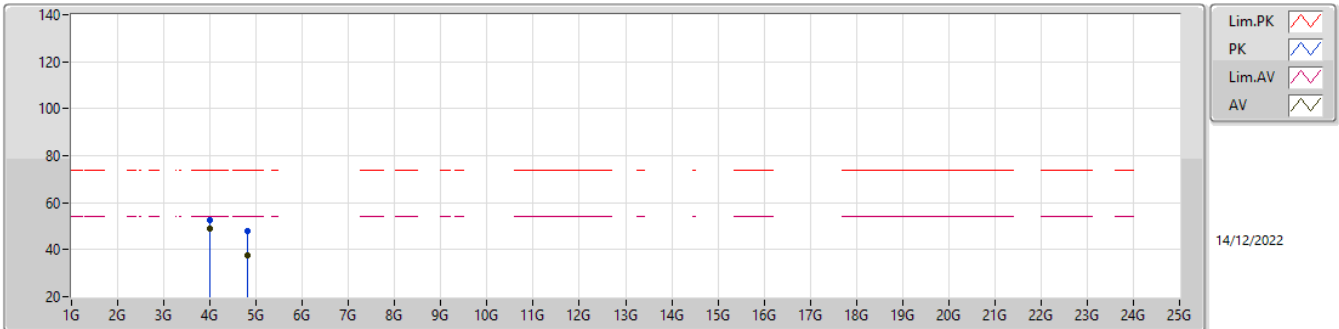
2402MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.3724G	40.65	54.00	-13.35	1.46	3	Horizontal	49	1.43	39.19	27.38	8.27	34.19
AV	2.402G	97.55	Inf	-Inf	1.69	3	Horizontal	49	1.43	95.86	27.60	8.29	34.20
PK	2.3868G	51.15	74.00	-22.85	1.57	3	Horizontal	49	1.43	49.58	27.49	8.28	34.20
PK	2.4016G	100.88	Inf	-Inf	1.69	3	Horizontal	49	1.43	99.19	27.60	8.29	34.20

2.4-2.4835GHz_BT-LE(2Mbps)

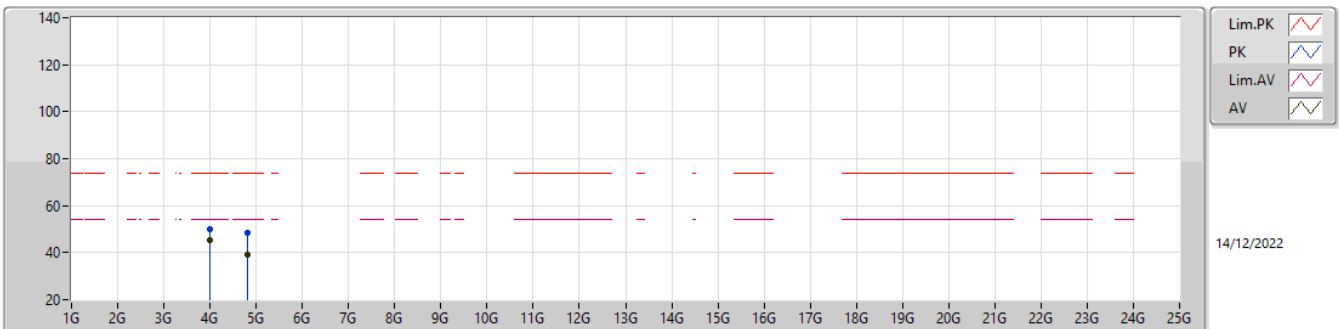
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Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.00343G	48.79	54.00	-5.21	5.84	3	Vertical	296	2.13	42.95	30.89	9.27	34.32
AV	4.80316G	37.84	54.00	-16.16	7.70	3	Vertical	277	1.04	30.14	32.22	9.67	34.19
PK	4.00288G	52.72	74.00	-21.28	5.84	3	Vertical	296	2.13	46.88	30.89	9.27	34.32
PK	4.80481G	47.96	74.00	-26.04	7.71	3	Vertical	277	1.04	40.25	32.23	9.67	34.19

2.4-2.4835GHz_BT-LE(2Mbps)

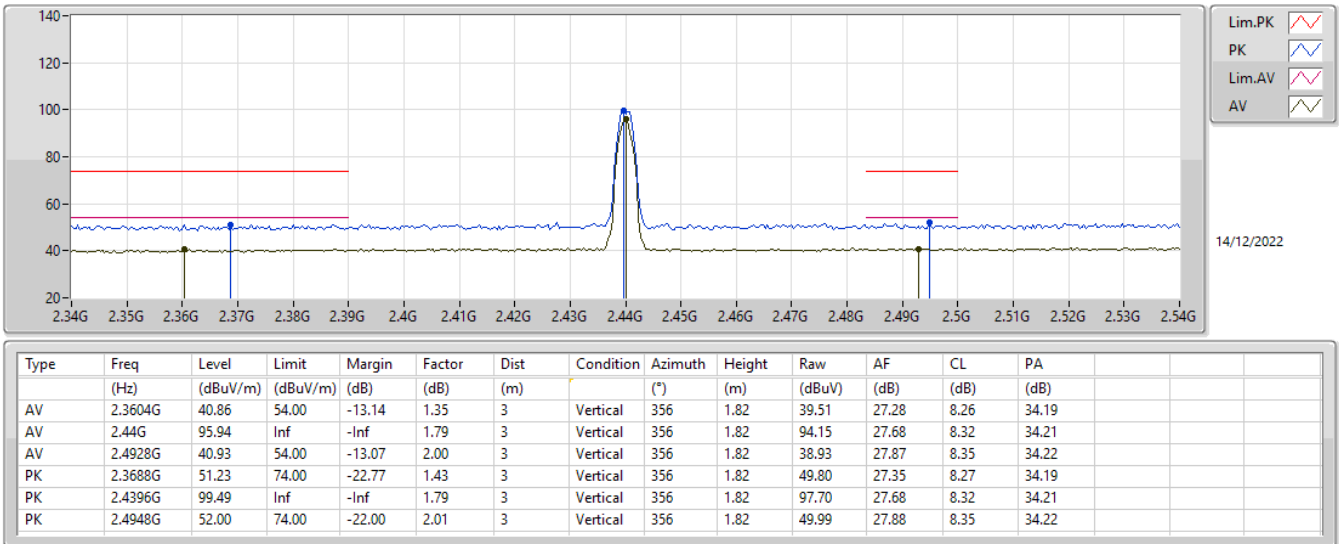
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.00354G	45.36	54.00	-8.64	5.84	3	Horizontal	68	2.49	39.52	30.89	9.27	34.32
AV	4.80297G	39.27	54.00	-14.73	7.70	3	Horizontal	71	2.24	31.57	32.22	9.67	34.19
PK	4.00371G	50.21	74.00	-23.79	5.84	3	Horizontal	68	2.49	44.37	30.89	9.27	34.32
PK	4.80298G	48.37	74.00	-25.63	7.70	3	Horizontal	71	2.24	40.67	32.22	9.67	34.19

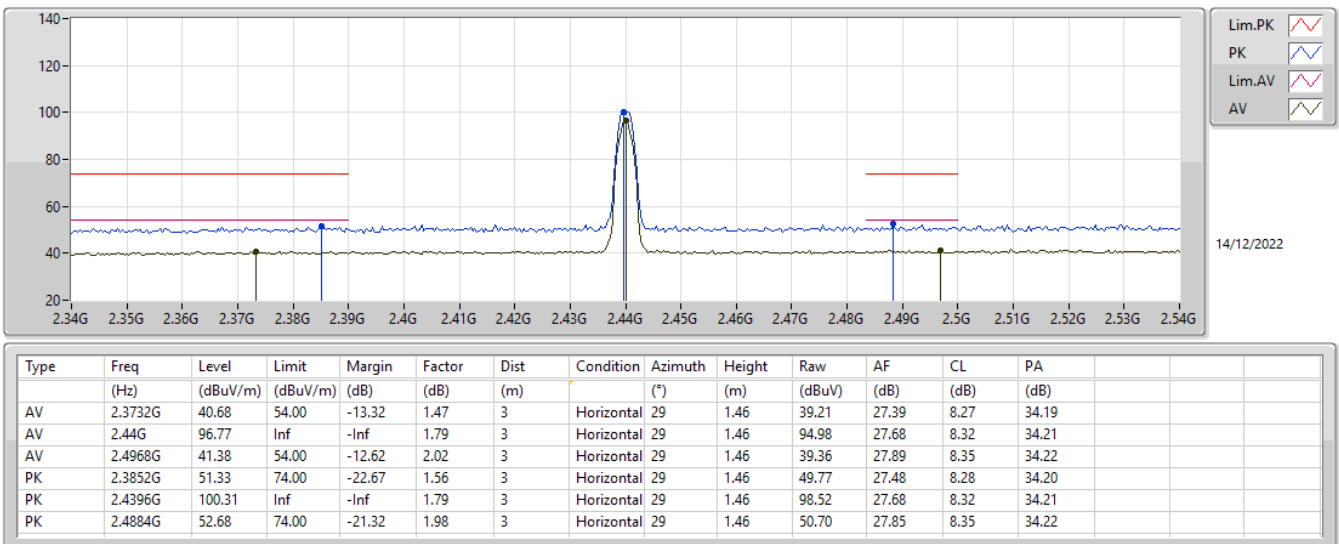
2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_TX



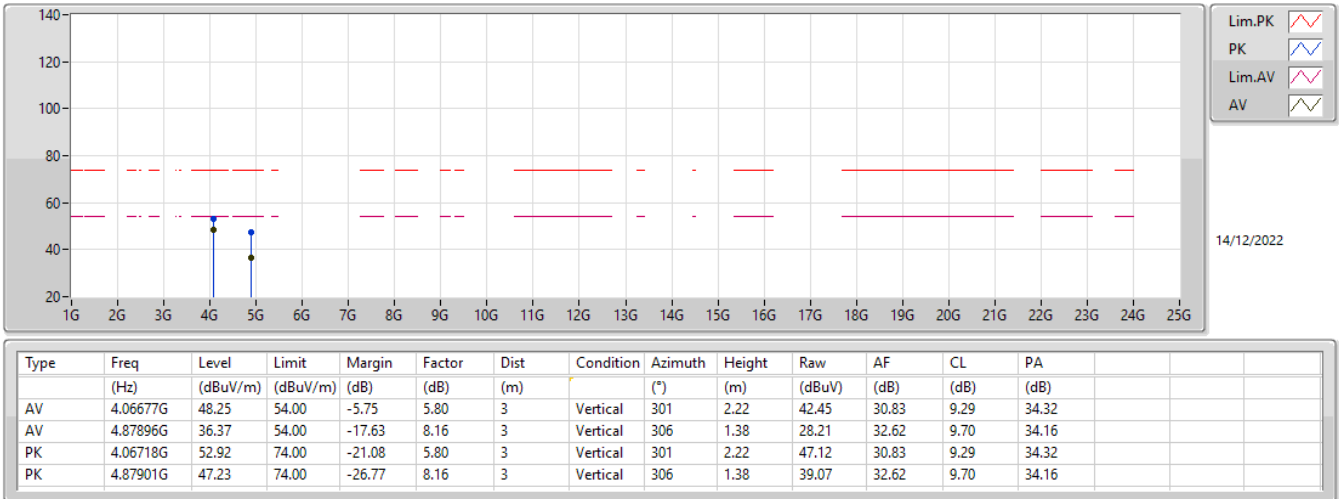
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2440MHz_TX



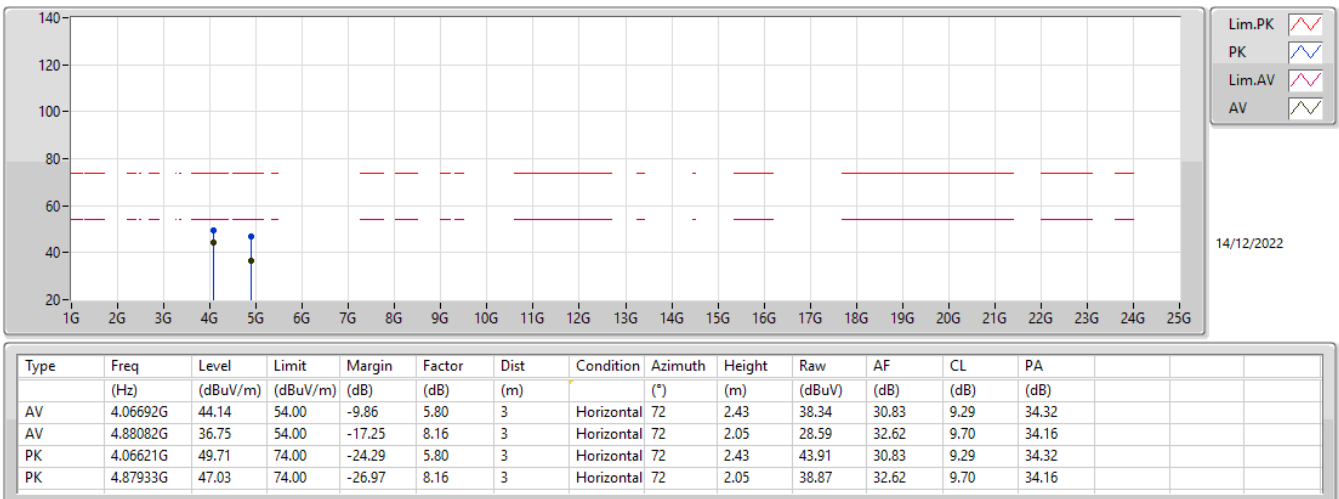
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2440MHz_TX



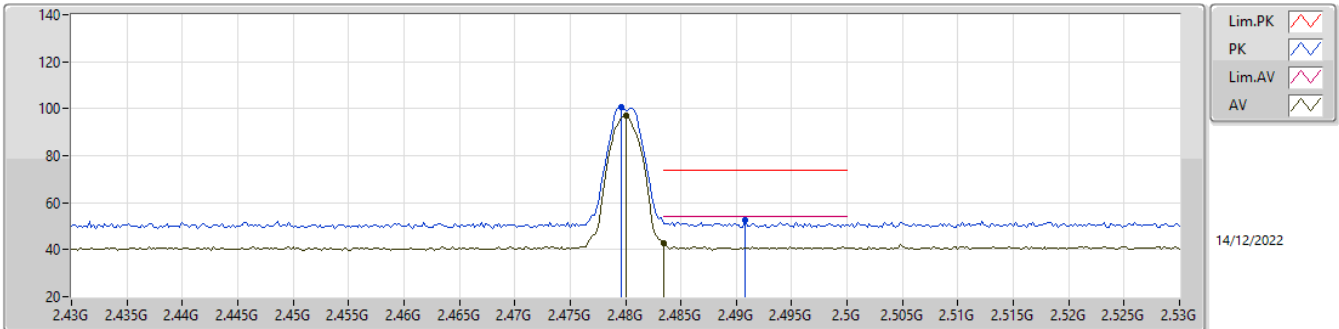
2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_TX



2.4-2.4835GHz_BT-LE(2Mbps)

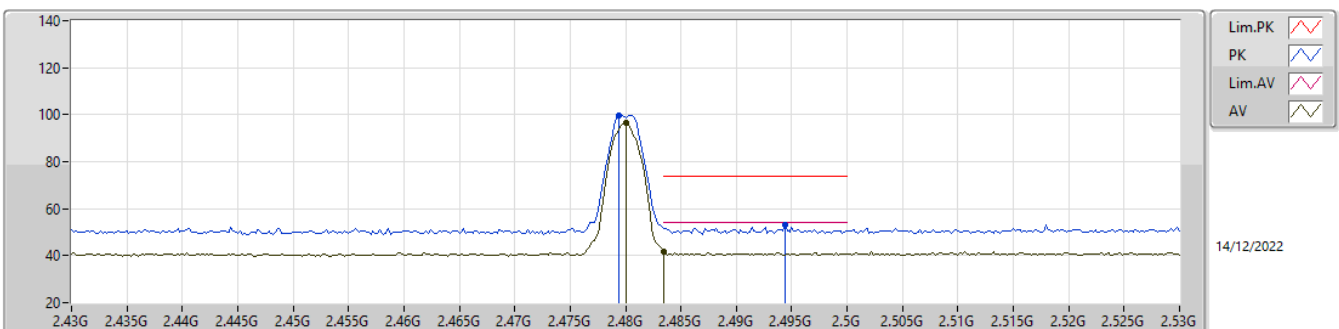
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.48G	97.03	Inf	-Inf	1.94	3	Vertical	346	1.82	95.09	27.82	8.34	34.22
AV	2.4835G	42.79	54.00	-11.21	1.95	3	Vertical	346	1.82	40.84	27.83	8.34	34.22
PK	2.4796G	100.49	Inf	-Inf	1.94	3	Vertical	346	1.82	98.55	27.82	8.34	34.22
PK	2.4908G	52.42	74.00	-21.58	1.99	3	Vertical	346	1.82	50.43	27.86	8.35	34.22

2.4-2.4835GHz_BT-LE(2Mbps)

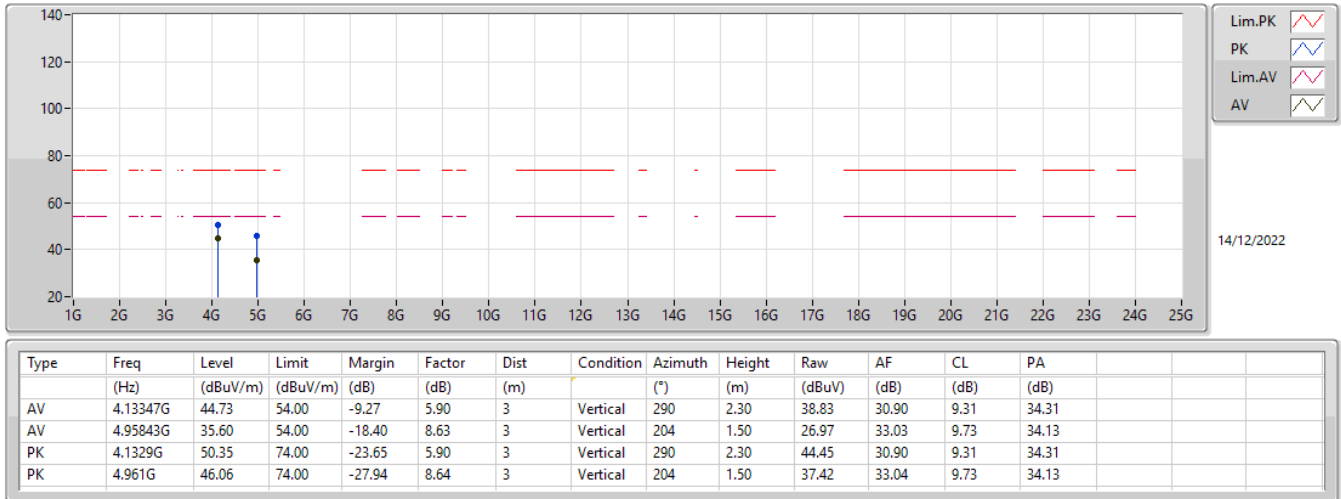
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.48G	96.38	Inf	-Inf	1.94	3	Horizontal	19	2.22	94.44	27.82	8.34	34.22
AV	2.4835G	41.90	54.00	-12.10	1.95	3	Horizontal	19	2.22	39.95	27.83	8.34	34.22
PK	2.4794G	99.90	Inf	-Inf	1.94	3	Horizontal	19	2.22	97.96	27.82	8.34	34.22
PK	2.4944G	52.86	74.00	-21.14	2.01	3	Horizontal	19	2.22	50.85	27.88	8.35	34.22

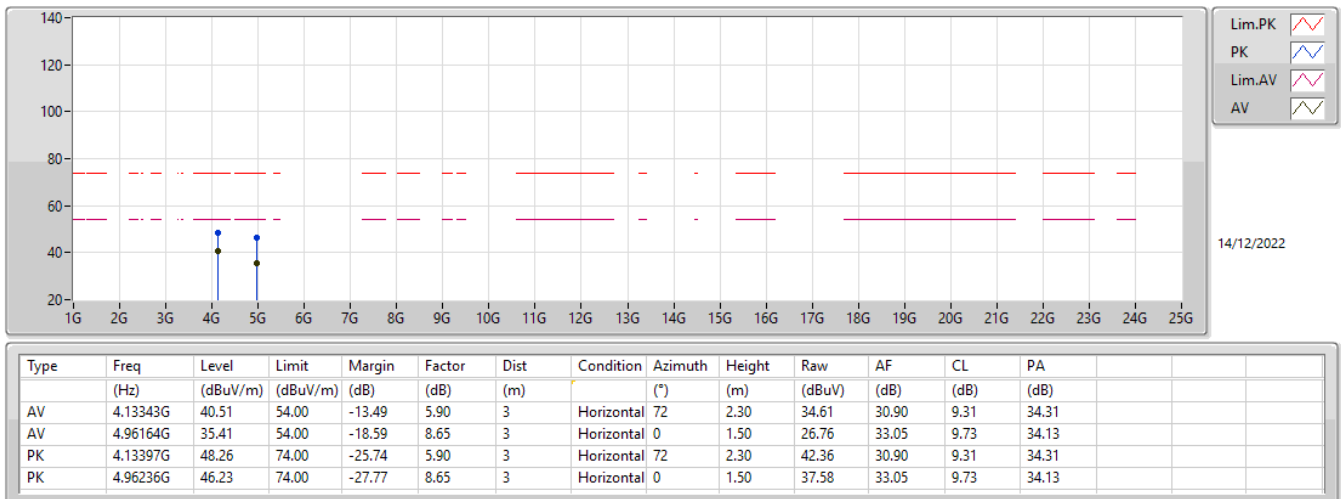
2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX



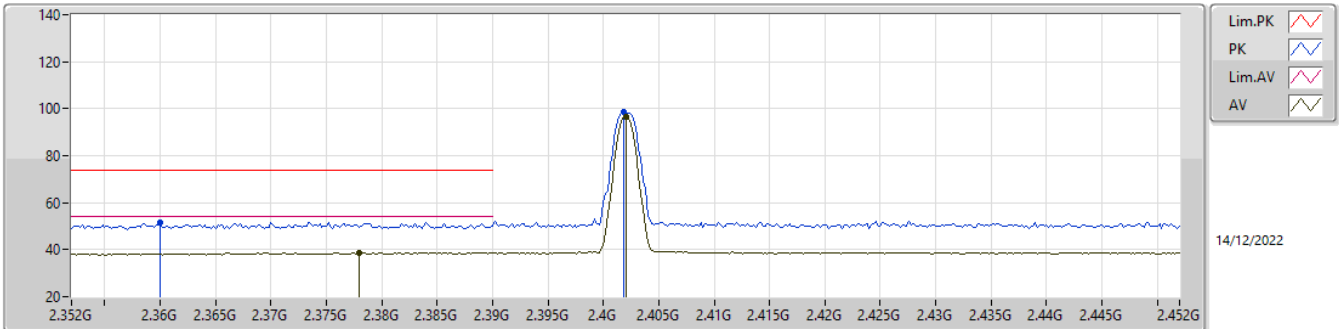
2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX



2.4-2.4835GHz_BT-LE(125kbps)

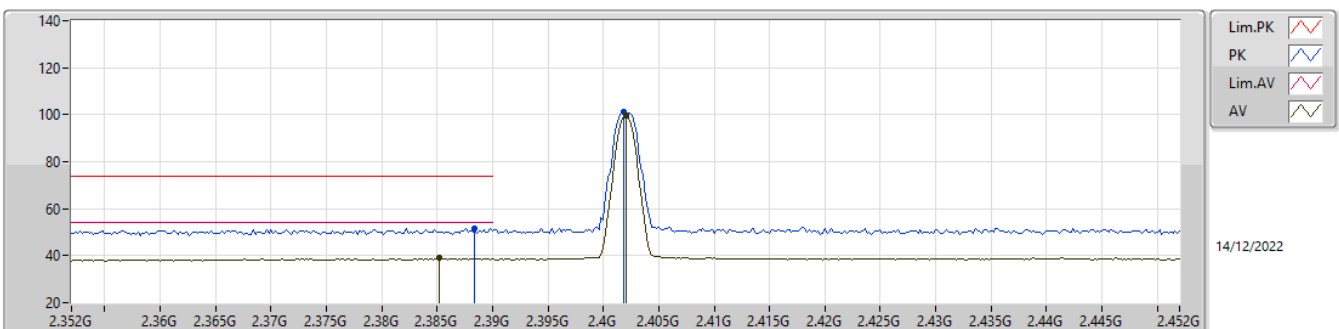
2402MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.378G	38.81	54.00	-15.19	1.49	3	Vertical	303	2.63	37.32	27.42	8.27	34.20
AV	2.402G	96.79	Inf	-Inf	1.69	3	Vertical	303	2.63	95.10	27.60	8.29	34.20
PK	2.36G	51.67	74.00	-22.33	1.35	3	Vertical	303	2.63	50.32	27.28	8.26	34.19
PK	2.4018G	98.43	Inf	-Inf	1.69	3	Vertical	303	2.63	96.74	27.60	8.29	34.20

2.4-2.4835GHz_BT-LE(125kbps)

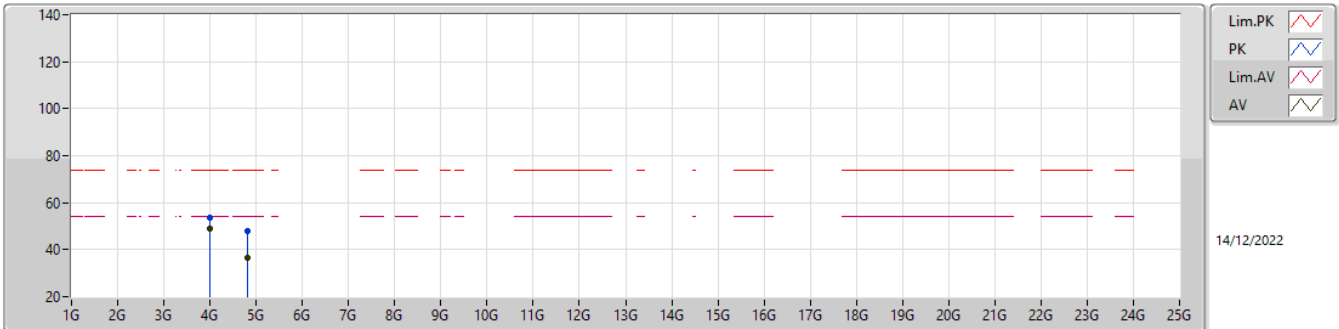
2402MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.3852G	38.90	54.00	-15.10	1.56	3	Horizontal	50	1.48	37.34	27.48	8.28	34.20
AV	2.402G	99.42	Inf	-Inf	1.69	3	Horizontal	50	1.48	97.73	27.60	8.29	34.20
PK	2.3884G	51.63	74.00	-22.37	1.59	3	Horizontal	50	1.48	50.04	27.51	8.28	34.20
PK	2.4018G	101.05	Inf	-Inf	1.69	3	Horizontal	50	1.48	99.36	27.60	8.29	34.20

2.4-2.4835GHz_BT-LE(125kbps)

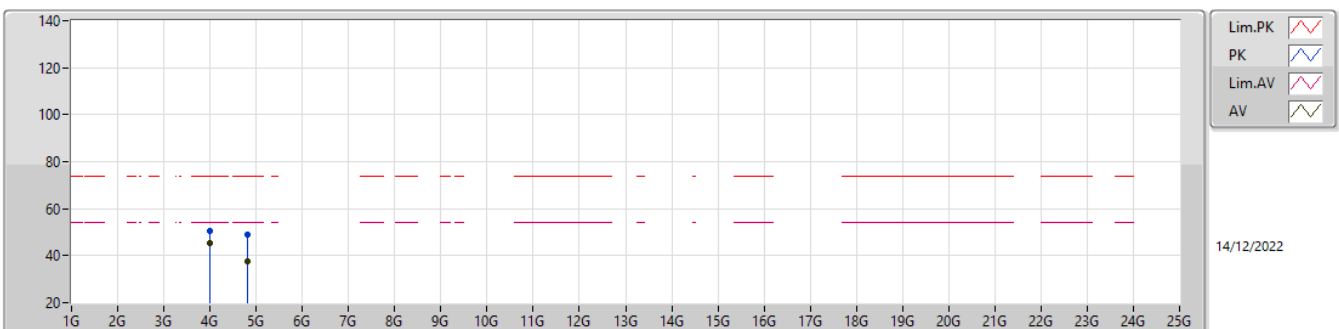
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.00338G	48.95	54.00	-5.05	5.84	3	Vertical	288	2.13	43.11	30.89	9.27	34.32
AV	4.8043G	36.31	54.00	-17.69	7.71	3	Vertical	286	1.95	28.60	32.23	9.67	34.19
PK	4.00325G	53.56	74.00	-20.44	5.84	3	Vertical	288	2.13	47.72	30.89	9.27	34.32
PK	4.80428G	48.07	74.00	-25.93	7.71	3	Vertical	286	1.95	40.36	32.23	9.67	34.19

2.4-2.4835GHz_BT-LE(125kbps)

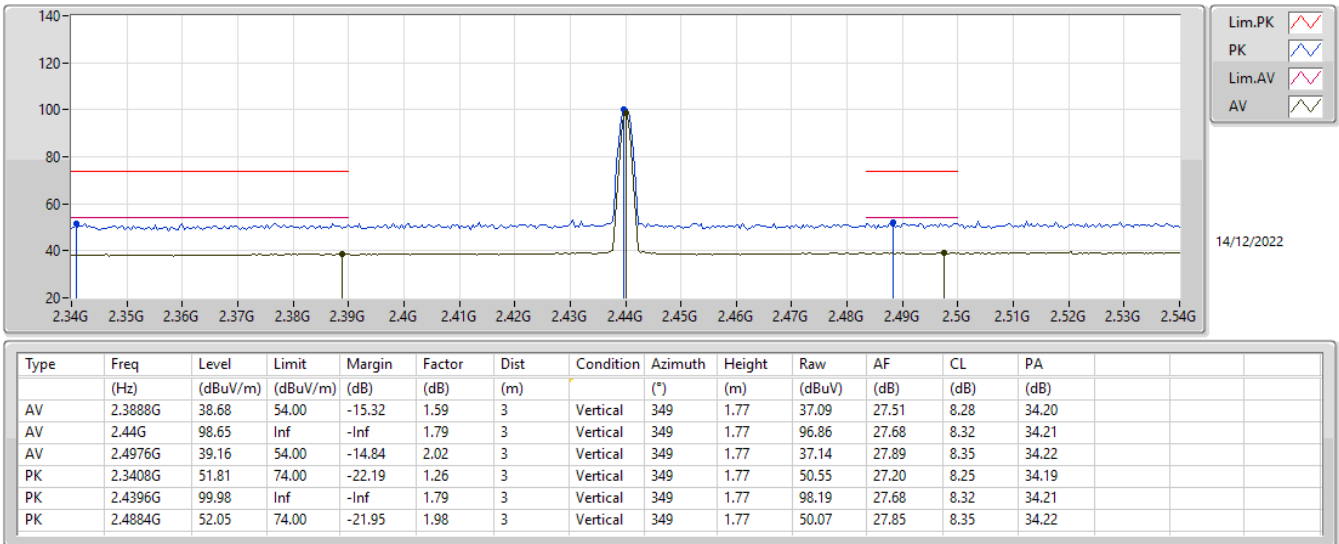
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.00334G	45.46	54.00	-8.54	5.84	3	Horizontal	65	2.47	39.62	30.89	9.27	34.32
AV	4.80403G	37.83	54.00	-16.17	7.70	3	Horizontal	71	2.15	30.13	32.22	9.67	34.19
PK	4.00315G	50.55	74.00	-23.45	5.84	3	Horizontal	65	2.47	44.71	30.89	9.27	34.32
PK	4.80361G	48.90	74.00	-25.10	7.70	3	Horizontal	71	2.15	41.20	32.22	9.67	34.19

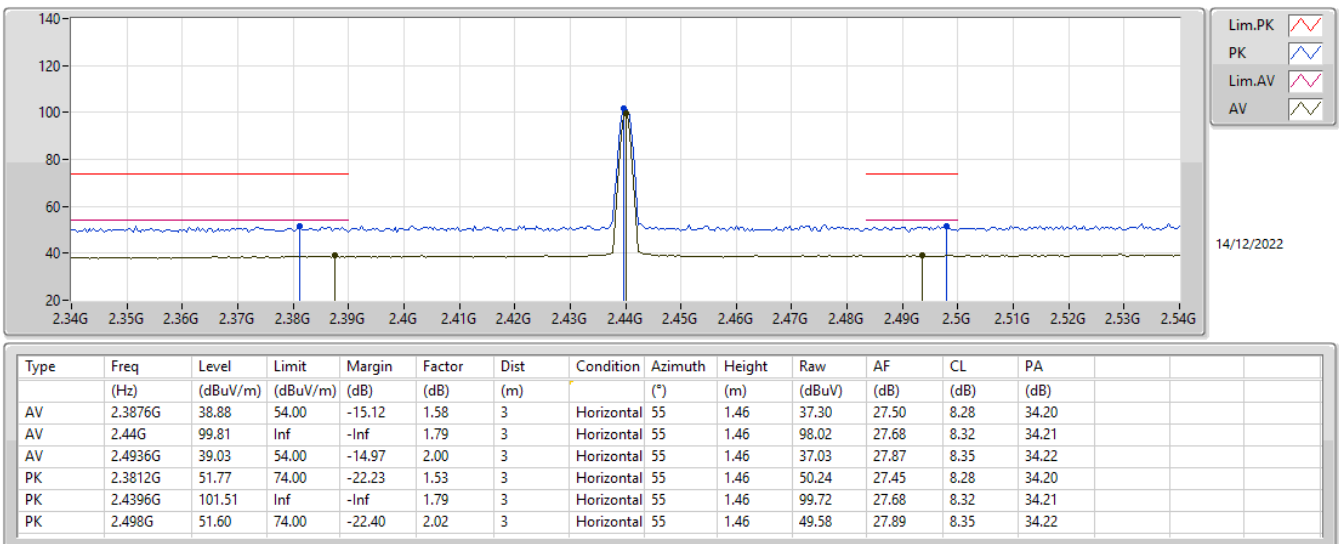
2.4-2.4835GHz_BT-LE(125kbps)

2440MHz_TX



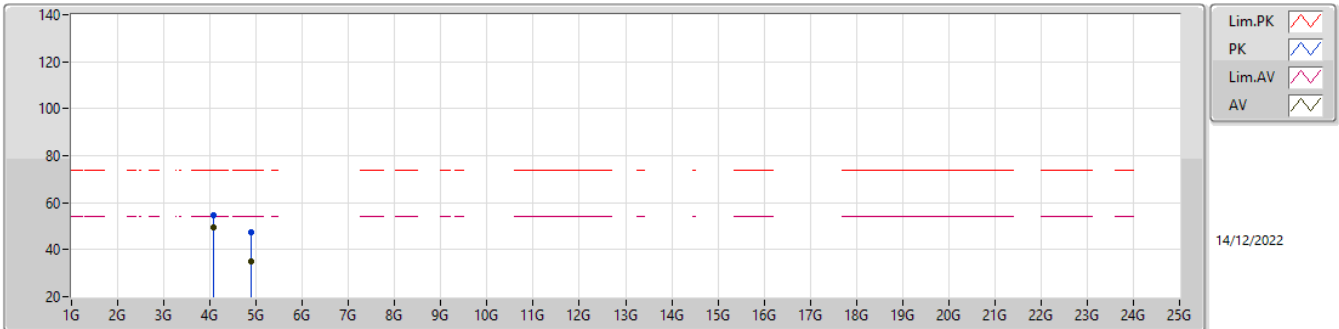
2.4-2.4835GHz_BT-LE(125kbps)

2440MHz_TX



2.4-2.4835GHz_BT-LE(125kbps)

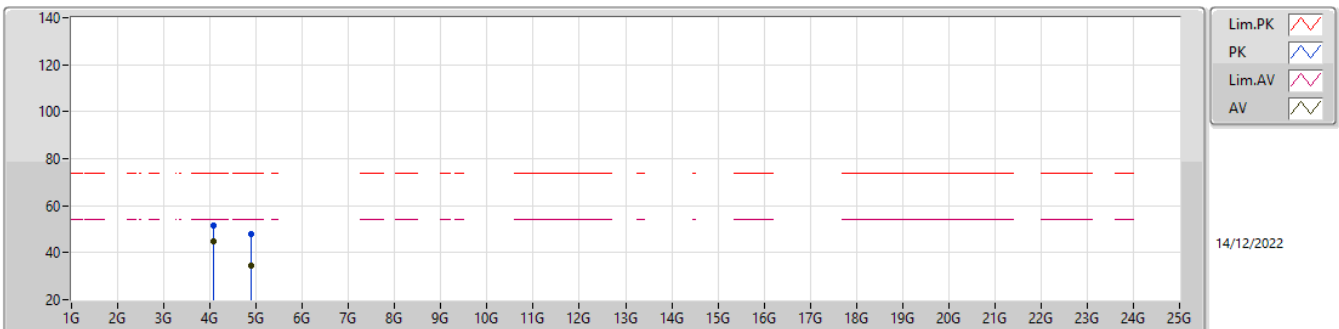
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.06668G	49.35	54.00	-4.65	5.80	3	Vertical	298	2.23	43.55	30.83	9.29	34.32
AV	4.8802G	34.89	54.00	-19.11	8.16	3	Vertical	280	2.12	26.73	32.62	9.70	34.16
PK	4.06682G	54.72	74.00	-19.28	5.80	3	Vertical	298	2.23	48.92	30.83	9.29	34.32
PK	4.87931G	47.16	74.00	-26.84	8.16	3	Vertical	280	2.12	39.00	32.62	9.70	34.16

2.4-2.4835GHz_BT-LE(125kbps)

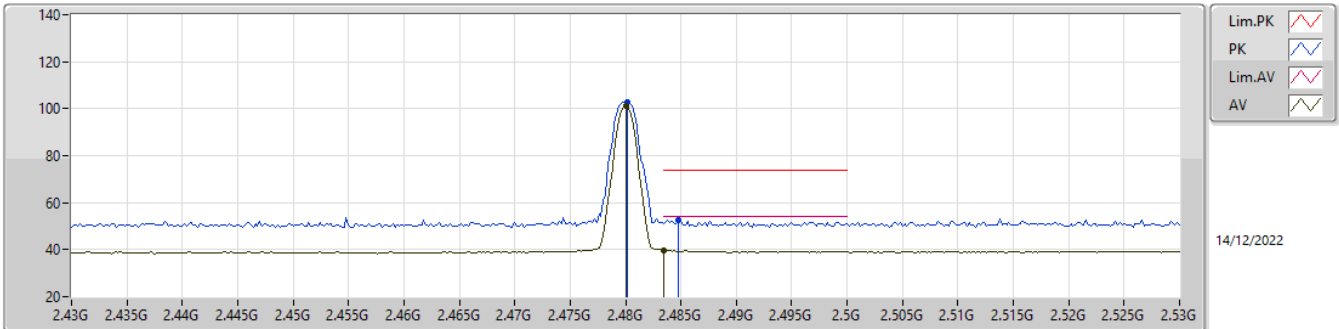
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.06671G	45.06	54.00	-8.94	5.80	3	Horizontal	72	2.41	39.26	30.83	9.29	34.32
AV	4.88029G	34.48	54.00	-19.52	8.16	3	Horizontal	20	2.13	26.32	32.62	9.70	34.16
PK	4.06692G	51.34	74.00	-22.66	5.80	3	Horizontal	72	2.41	45.54	30.83	9.29	34.32
PK	4.87983G	48.01	74.00	-25.99	8.16	3	Horizontal	20	2.13	39.85	32.62	9.70	34.16

2.4-2.4835GHz_BT-LE(125kbps)

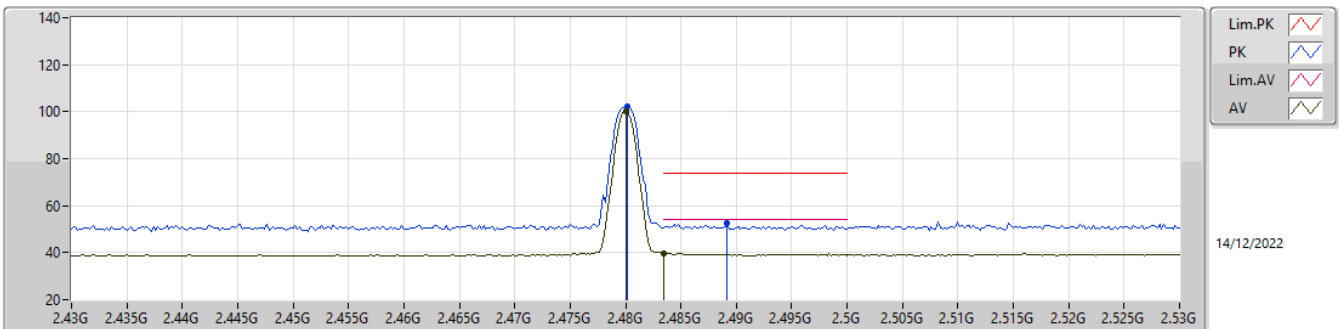
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.48G	101.24	Inf	-Inf	1.94	3	Vertical	352	1.48	99.30	27.82	8.34	34.22
AV	2.4835G	39.54	54.00	-14.46	1.95	3	Vertical	352	1.48	37.59	27.83	8.34	34.22
PK	2.4802G	102.93	Inf	-Inf	1.94	3	Vertical	352	1.48	100.99	27.82	8.34	34.22
PK	2.4848G	52.39	74.00	-21.61	1.97	3	Vertical	352	1.48	50.42	27.84	8.35	34.22

2.4-2.4835GHz_BT-LE(125kbps)

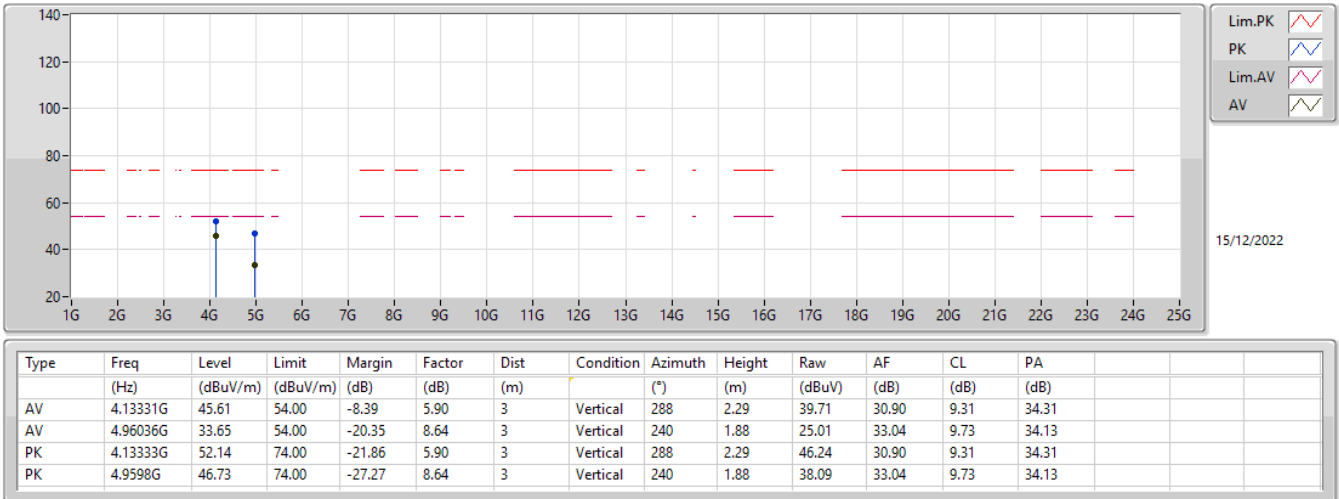
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.48G	100.26	Inf	-Inf	1.94	3	Horizontal	22	2.23	98.32	27.82	8.34	34.22
AV	2.4835G	39.87	54.00	-14.13	1.95	3	Horizontal	22	2.23	37.92	27.83	8.34	34.22
PK	2.4802G	102.03	Inf	-Inf	1.94	3	Horizontal	22	2.23	100.09	27.82	8.34	34.22
PK	2.4892G	52.77	74.00	-21.23	1.99	3	Horizontal	22	2.23	50.78	27.86	8.35	34.22

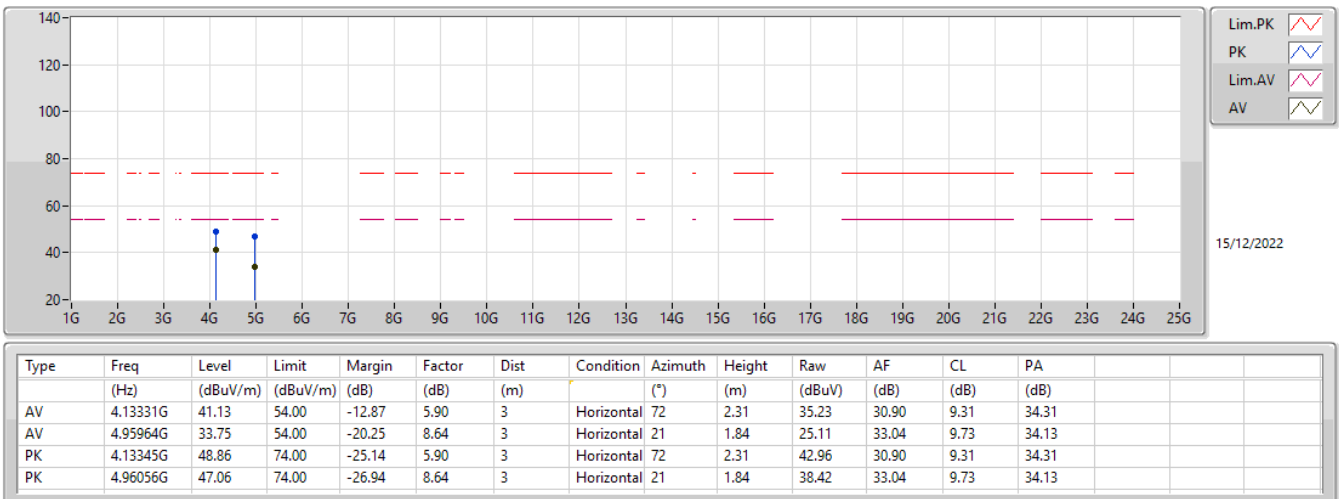
2.4-2.4835GHz_BT-LE(125kbps)

2480MHz_TX



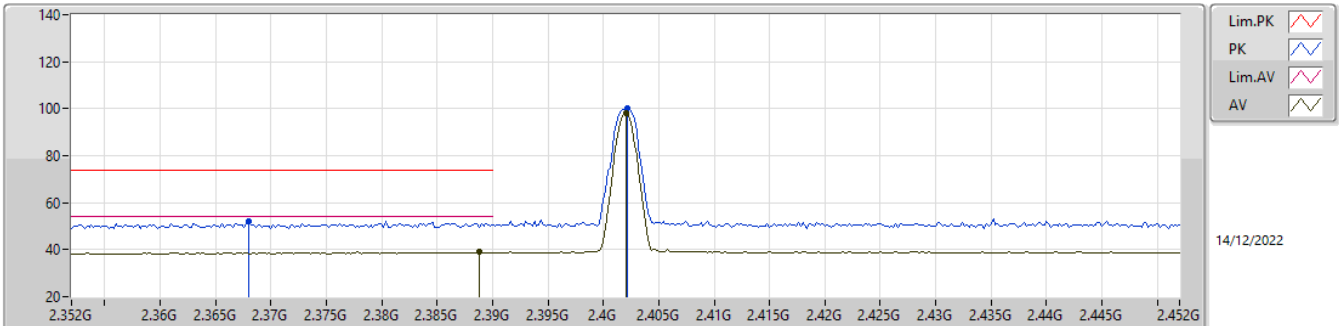
2.4-2.4835GHz_BT-LE(125kbps)

2480MHz_TX



2.4-2.4835GHz_BT-LE(500kbps)

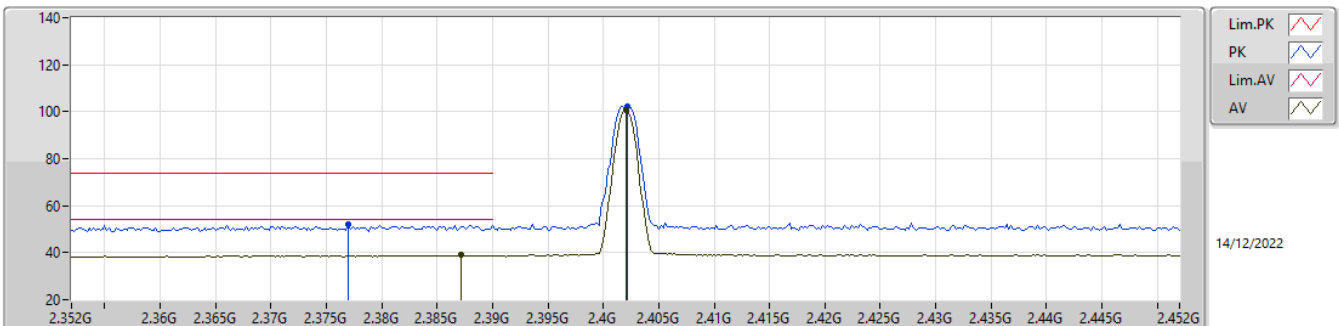
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3888G	38.90	54.00	-15.10	1.59	3	Vertical	302	2.63	37.31	27.51	8.28	34.20
AV	2.402G	98.24	Inf	-Inf	1.69	3	Vertical	302	2.63	96.55	27.60	8.29	34.20
PK	2.368G	52.29	74.00	-21.71	1.42	3	Vertical	302	2.63	50.87	27.34	8.27	34.19
PK	2.402G	99.96	Inf	-Inf	1.69	3	Vertical	302	2.63	98.27	27.60	8.29	34.20

2.4-2.4835GHz_BT-LE(500kbps)

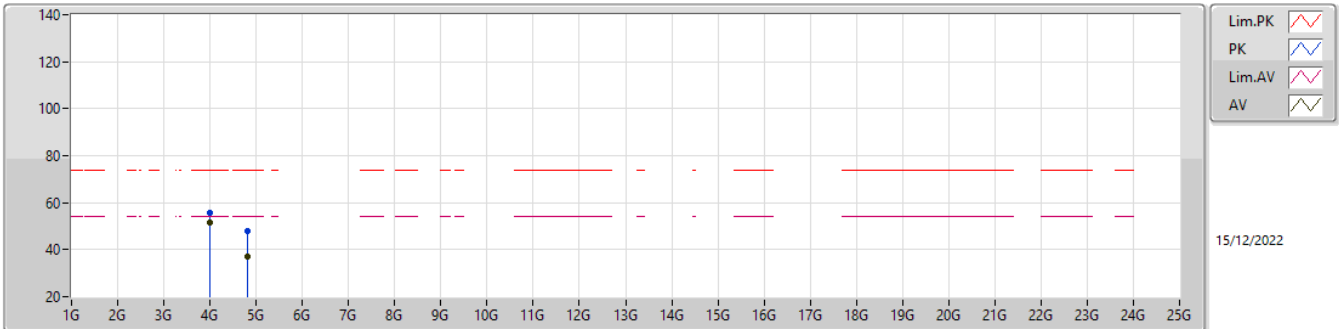
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3872G	39.04	54.00	-14.96	1.58	3	Horizontal	51	1.46	37.46	27.50	8.28	34.20
AV	2.402G	100.49	Inf	-Inf	1.69	3	Horizontal	51	1.46	98.80	27.60	8.29	34.20
PK	2.377G	51.92	74.00	-22.08	1.49	3	Horizontal	51	1.46	50.43	27.42	8.27	34.20
PK	2.402G	102.32	Inf	-Inf	1.69	3	Horizontal	51	1.46	100.63	27.60	8.29	34.20

2.4-2.4835GHz_BT-LE(500kbps)

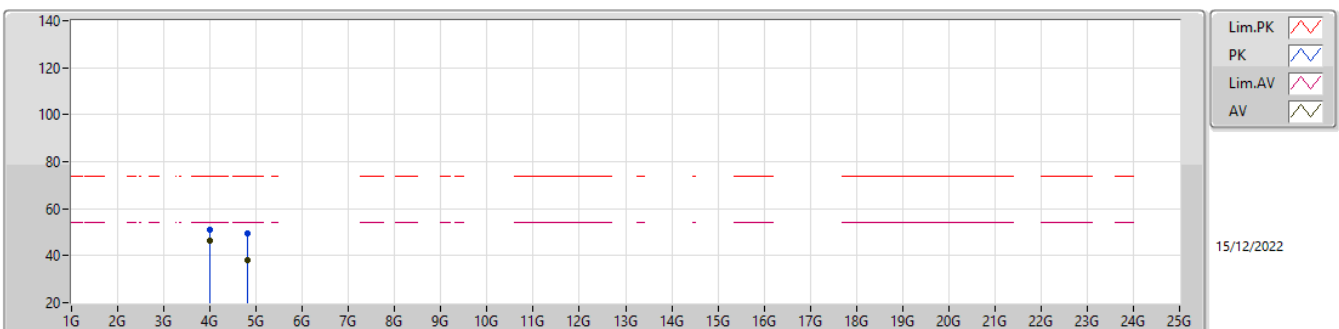
2402MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA			
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)			
AV	4.00335G	51.39	54.00	-2.61	5.84	3	Vertical	284	2.13	45.55	30.89	9.27	34.32			
AV	4.80384G	37.26	54.00	-16.74	7.70	3	Vertical	301	1.04	29.56	32.22	9.67	34.19			
PK	4.00328G	55.47	74.00	-18.53	5.84	3	Vertical	284	2.13	49.63	30.89	9.27	34.32			
PK	4.80426G	48.12	74.00	-25.88	7.71	3	Vertical	301	1.04	40.41	32.23	9.67	34.19			

2.4-2.4835GHz_BT-LE(500kbps)

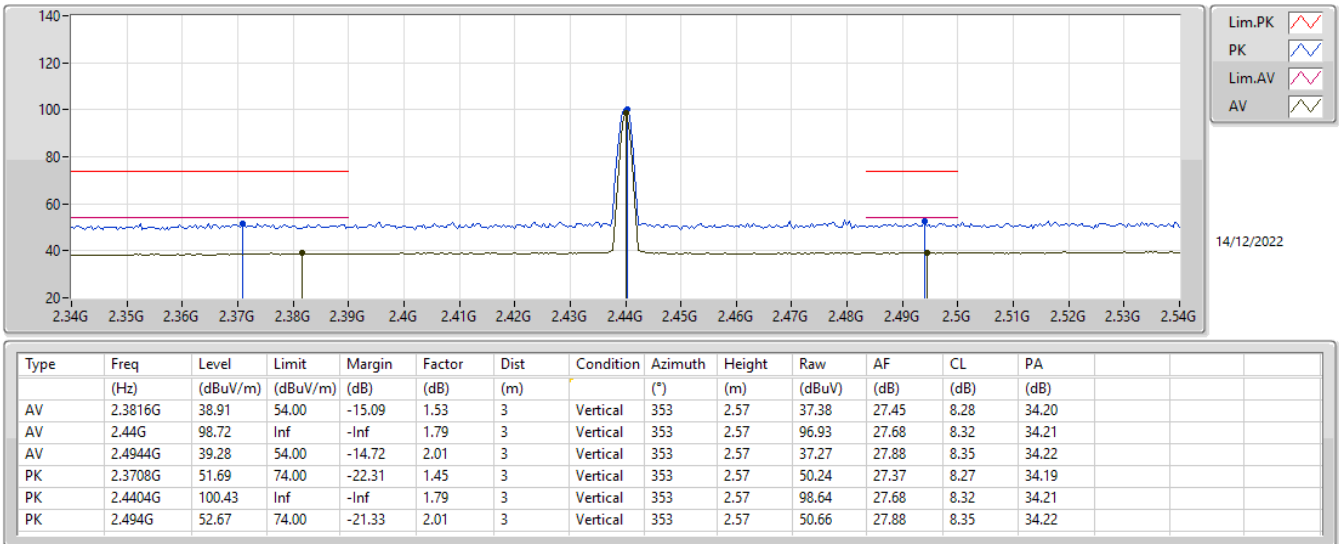
2402MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA			
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)			
AV	4.00339G	46.59	54.00	-7.41	5.84	3	Horizontal	67	2.48	40.75	30.89	9.27	34.32			
AV	4.80402G	37.86	54.00	-16.14	7.70	3	Horizontal	73	2.12	30.16	32.22	9.67	34.19			
PK	4.00328G	50.83	74.00	-23.17	5.84	3	Horizontal	67	2.48	44.99	30.89	9.27	34.32			
PK	4.80351G	49.39	74.00	-24.61	7.70	3	Horizontal	73	2.12	41.69	32.22	9.67	34.19			

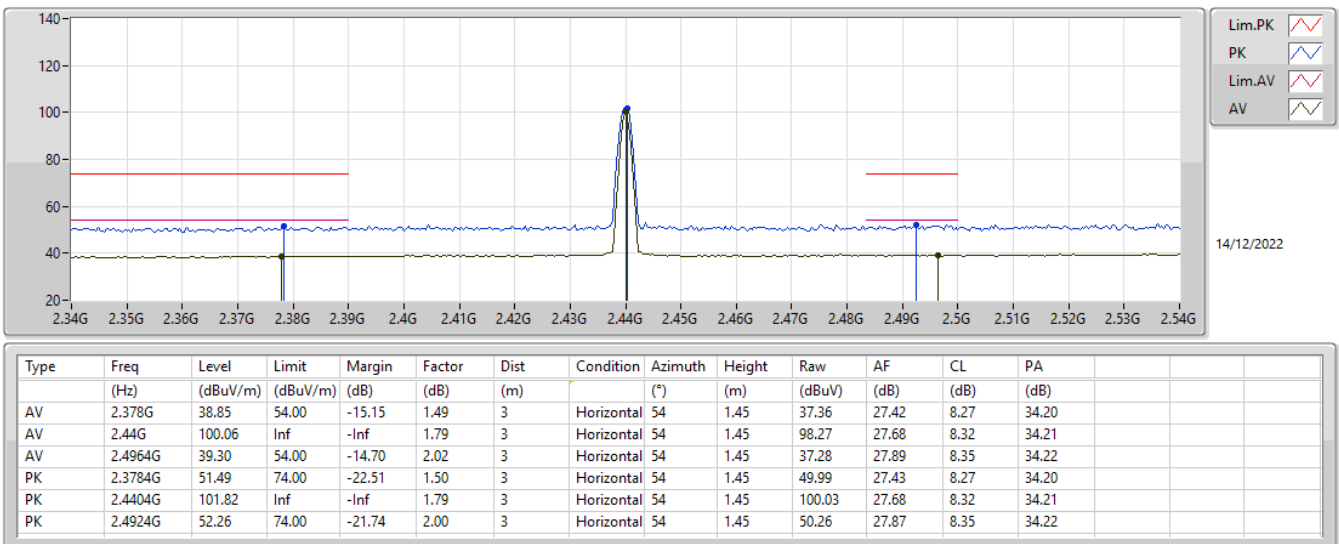
2.4-2.4835GHz_BT-LE(500kbps)

2440MHz_TX



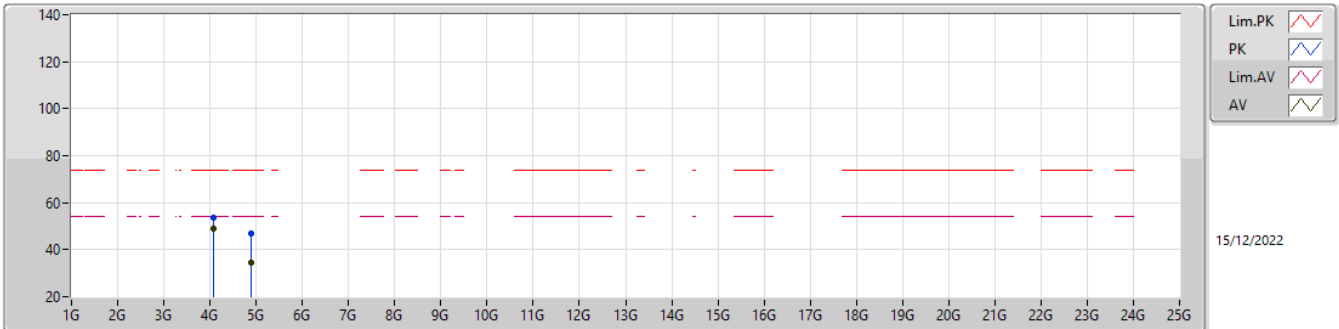
2.4-2.4835GHz_BT-LE(500kbps)

2440MHz_TX



2.4-2.4835GHz_BT-LE(500kbps)

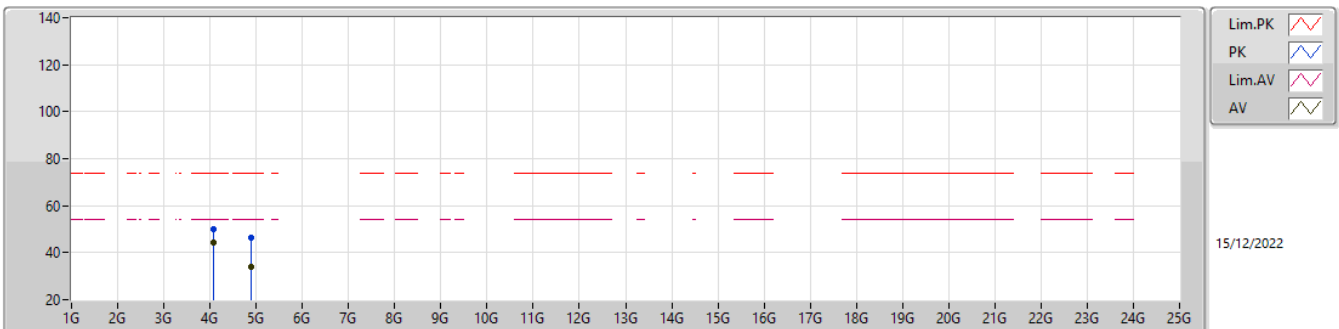
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.06673G	48.98	54.00	-5.02	5.80	3	Vertical	289	2.23	43.18	30.83	9.29	34.32
AV	4.87996G	34.42	54.00	-19.58	8.16	3	Vertical	294	1.91	26.26	32.62	9.70	34.16
PK	4.06663G	53.40	74.00	-20.60	5.80	3	Vertical	289	2.23	47.60	30.83	9.29	34.32
PK	4.88042G	47.07	74.00	-26.93	8.16	3	Vertical	294	1.91	38.91	32.62	9.70	34.16

2.4-2.4835GHz_BT-LE(500kbps)

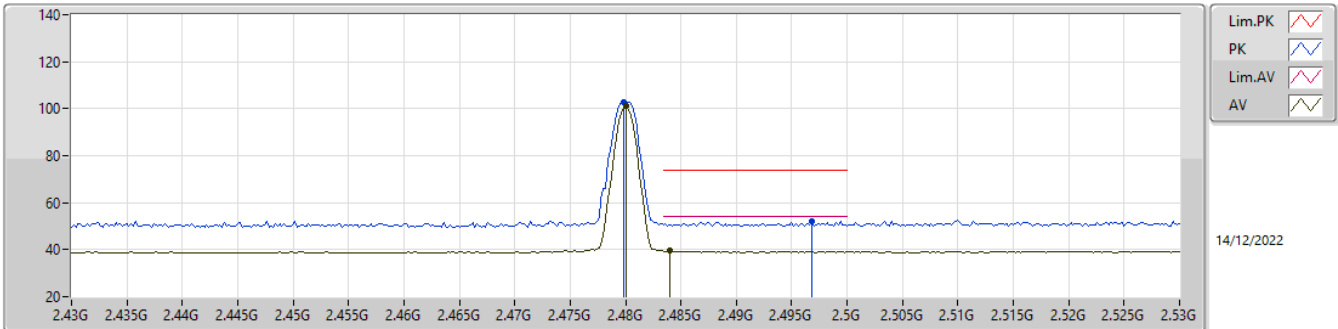
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.06667G	44.24	54.00	-9.76	5.80	3	Horizontal	61	2.20	38.44	30.83	9.29	34.32
AV	4.8804G	33.90	54.00	-20.10	8.16	3	Horizontal	12	1.83	25.74	32.62	9.70	34.16
PK	4.06668G	50.10	74.00	-23.90	5.80	3	Horizontal	61	2.20	44.30	30.83	9.29	34.32
PK	4.87942G	46.63	74.00	-27.37	8.16	3	Horizontal	12	1.83	38.47	32.62	9.70	34.16

2.4-2.4835GHz_BT-LE(500kbps)

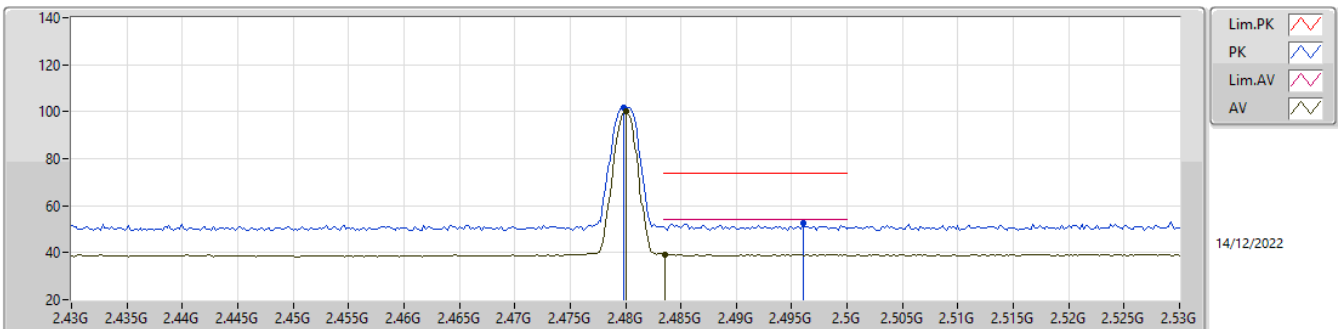
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.48G	101.00	Inf	-Inf	1.94	3	Vertical	354	1.48	99.06	27.82	8.34	34.22
AV	2.484G	39.43	54.00	-14.57	1.96	3	Vertical	354	1.48	37.47	27.84	8.34	34.22
PK	2.4798G	102.83	Inf	-Inf	1.94	3	Vertical	354	1.48	100.89	27.82	8.34	34.22
PK	2.4968G	52.21	74.00	-21.79	2.02	3	Vertical	354	1.48	50.19	27.89	8.35	34.22

2.4-2.4835GHz_BT-LE(500kbps)

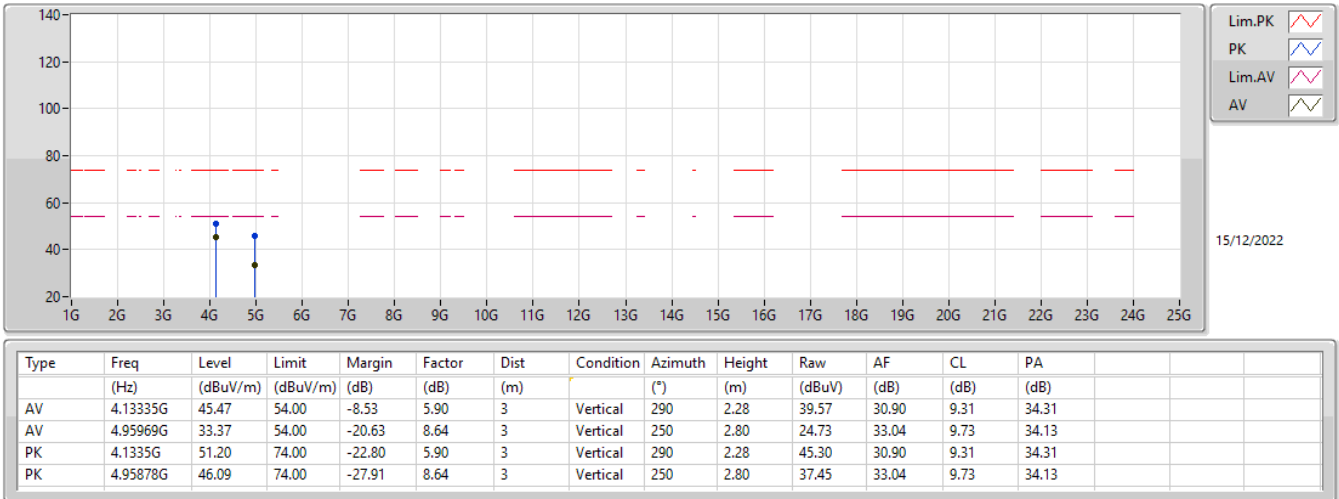
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.48G	100.20	Inf	-Inf	1.94	3	Horizontal	19	3.00	98.26	27.82	8.34	34.22
AV	2.4836G	39.34	54.00	-14.66	1.95	3	Horizontal	19	3.00	37.39	27.83	8.34	34.22
PK	2.4798G	101.96	Inf	-Inf	1.94	3	Horizontal	19	3.00	100.02	27.82	8.34	34.22
PK	2.496G	52.43	74.00	-21.57	2.01	3	Horizontal	19	3.00	50.42	27.88	8.35	34.22

2.4-2.4835GHz_BT-LE(500kbps)

2480MHz_TX



2.4-2.4835GHz_BT-LE(500kbps)

2480MHz_TX

