



RADIO TEST REPORT

FCC ID : RAXWN8711
Equipment : Wireless LAN Network Module
Brand Name : Arcadyan
Model Name : WN8711BTAAC-YA
Applicant : Arcadyan Technology Corporation
No.8, Sec.2, Guangfu Rd.,Hsinchu, 30071 Taiwan
Manufacturer : Arcadyan Technology Corporation
No.8, Sec.2, Guangfu Rd.,Hsinchu, 30071 Taiwan
Standard : 47 CFR FCC Part 15.247

The product was received on Apr. 19, 2022, and testing was started from Apr. 22, 2022 and completed on Jun. 15, 2022. We, Sporton International Inc. Hsinchu 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. Hsinchu Laboratory, the test report shall not be reproduced except in full.

Approved by: Sam Chen

Sporton International Inc. Hsinchu Laboratory

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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:

1. The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers. It's means measurement values may risk exceeding the limit of regulation standards, if measurement uncertainty is include in test results.
2. The measurement uncertainty please refer to report "Measurement Uncertainty".

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Sam Chen**Report Producer: Viola Huang**



1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
2400-2483.5	b, g, n (HT20)	2412-2462	1-11 [11]
2400-2483.5	n (HT40)	2422-2452	3-9 [7]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	1TX
2.4-2.4835GHz	802.11g	20	1TX
2.4-2.4835GHz	802.11n HT20	20	1TX
2.4-2.4835GHz	802.11n HT40	40	1TX

Note:

- ◆ 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- ◆ 11g, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ◆ BWch is the nominal channel bandwidth.



1.1.2 Antenna Information

Ant.	Brand	Model Name	Type	Connector	Gain (dBi)		Cable Length (mm)
					2.4GHz	5GHz	
1	ACON	AEMEE-10000	Dipole	Reversed-SMA	3.24	4.54	Note 1

Note 1:

Dipole Cable	Brand	Model Name	Cable Length (mm)	Cable Loss (dB)		True Gain (dBi)	
				2.4GHz / BT	5GHz	2.4GHz / BT	5GHz
1	ACON	AEC8P-1000001 (Black)	30	0.08	0.12	3.16	4.42
2	ACON	AEC8P-1000003 (Black)	50	0.13	0.19	3.11	4.35
3	ACON	AEC8P-1000005 (Black)	70	0.19	0.27	3.05	4.27
4	ACON	AEC8P-1000007 (Black)	90	0.24	0.35	3.00	4.19
5	ACON	AEC8P-1000009 (Black)	120	0.32	0.46	2.92	4.08
6	ACON	AEC8P-1000011 (Black)	160	0.43	0.62	2.81	3.92
7	ACON	AEC8P-1000013 (Black)	200	0.54	0.77	2.70	3.77
8	ACON	AEC8P-1000015 (Black)	240	0.64	0.93	2.60	3.61
9	ACON	AEC8P-1000017 (Black)	280	0.75	1.08	2.49	3.46
10	ACON	AEC8P-1000019 (Black)	320	0.86	1.24	2.38	3.30
11	ACON	AEC8P-1000021 (Black)	360	0.96	1.39	2.28	3.15
12	ACON	AEC8P-1000023 (Black)	400	1.07	1.54	2.17	3.00
13	ACON	AEC8P-1000025 (Black)	450	1.21	1.74	2.03	2.80
14	ACON	AEC8P-1000027 (Black)	500	1.34	1.93	1.90	2.61

Note 2: Dipole Antenna collocate with 14 set cables selling, only the highest gain antenna "cable 1" was tested and recorded in the report.

Note 3: The above information was declared by manufacturer.

Note 4: The EUT has one antenna.

For WLAN 2.4GHz Function

IEEE 802.11b/g/n (1TX/1RX):

Port 1 can be used as transmitting/receiving antenna.

Port 1 could transmit/receive simultaneously.

For WLAN 5GHz Function

IEEE 802.11a/n/ac (1TX/1RX):

Port 1 can be used as transmitting/receiving antenna.

Port 1 could transmit/receive simultaneously.

For Bluetooth function (1TX/1RX):

Port 1 can be used as transmitting/receiving antenna.

Port 1 could transmit/receive simultaneously.



1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11b	0.936	0.29	12.42m	100
802.11g	0.952	0.21	2.068m	1k
HT20	0.985	0.07	n/a (DC>=0.98)	n/a (DC>=0.98)
HT40	0.97	0.13	955u	3k

Note:

- ◆ DC is Duty Cycle.
- ◆ DCF is Duty Cycle Factor.

1.1.4 EUT Operational Condition

EUT Power Type	From host system		
Beamforming Function	<input type="checkbox"/> With beamforming	<input checked="" type="checkbox"/>	Without beamforming
Function	<input checked="" type="checkbox"/> Point-to-multipoint	<input type="checkbox"/>	Point-to-point
Test Software Version	MTool V3.0.0.3		
Operating frequency of CPU	1GHz		
Rating	3.7V, 4.21W		

Note: The above information was declared by manufacturer.

1.1.5 Table for EUT supports function

Function	Supports type
AP	Master
Slave	Slave without radar detection

Note 1: AP Mode and Slave Mode were tested and their data were recorded in this report.

Note 2: The above information was declared by manufacturer.



1.2 Applicable Standards

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

- ♦ 47 CFR FCC Part 15.247
- ♦ ANSI C63.10-2013

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

- ♦ FCC KDB 558074 D01 v05r02
- ♦ FCC KDB 414788 D01 v01r01

1.3 Testing Location Information

Testing Location Information	
Test Lab. : Sporton International Inc. Hsinchu Laboratory	
Hsinchu	ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)
(TAF: 3787)	TEL: 886-3-656-9065 FAX: 886-3-656-9085
	Test site Designation No. TW3787 with FCC.
	Conformity Assessment Body Identifier (CABID) TW3787 with ISED.

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH03-CB	Owen Hsu	18.7~19.1 / 65~68	Apr. 27, 2022~May 30, 2022
Radiated Below 1GHz	03CH05-CB	Kevin Huang	24.5~25.6 / 56~59	Apr. 22, 2022~Apr. 23, 2022
Radiated above 1GHz (For others test)	03CH02-CB	Chris Lee	23.8~24.9 / 55~58	Apr. 23, 2022~May 24, 2022
Radiated above 1GHz (For co-location test)	03CH01-CB	Chris Lee	23.2~24.3 / 56~59	Jun. 07, 2022~Jun. 15, 2022
AC Conduction	CO01-CB	Joe Chu	20~22 / 60~62	Apr. 26, 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))

For others test

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.4 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	4.2 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.5 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.7 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.2 dB	Confidence levels of 95%
Conducted Emission	2.5 dB	Confidence levels of 95%
Output Power Measurement	1.3 dB	Confidence levels of 95%
Power Density Measurement	2.5 dB	Confidence levels of 95%
Bandwidth Measurement	0.9%	Confidence levels of 95%



For co-location test

Test Items	Uncertainty	Remark
Radiated Emission (1GHz ~ 18GHz)	5.2 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.7 dB	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
802.11b_Nss1,(1Mbps)_1TX	-
2412MHz	74
2417MHz	84
2437MHz	94
2457MHz	78
2462MHz	68
802.11g_Nss1,(6Mbps)_1TX	-
2412MHz	50
2417MHz	59
2437MHz	70
2457MHz	58
2462MHz	54
802.11n HT20_Nss1,(MCS0)_1TX	-
2412MHz	54
2417MHz	67
2437MHz	77
2457MHz	70
2462MHz	57
802.11n HT40_Nss1,(MCS0)_1TX	-
2422MHz	42
2427MHz	47
2437MHz	61
2452MHz	53



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	Normal Link
1	AP Mode_EUT (2.4GHz+Bluetooth Master) with Dipole antenna + cable 1
2	AP Mode_EUT (5GHz+Bluetooth Master) with Dipole antenna + cable 1
Mode 2 has been evaluated to be the worst case between Mode 1~2, thus measurement for Mode 3 will follow this same test mode.	
3	Slave Mode_EUT (5GHz+Bluetooth Master) with Dipole antenna + cable 1
Mode 2 has been evaluated to be the worst case between Mode 1~3, thus measurement for Mode 4 will follow this same test mode.	
4	Slave Mode_EUT (5GHz+Bluetooth Slave) with Dipole antenna + cable 1
For operating mode 4 is the worst case and it was record in this test report.	

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	Normal Link
1	AP Mode_EUT in X axis (2.4GHz+Bluetooth Master) with Dipole antenna + cable 1
2	AP Mode_EUT in Y axis (2.4GHz+Bluetooth Master) with Dipole antenna + cable 1
3	AP Mode_EUT in Z axis (2.4GHz+Bluetooth Master) with Dipole antenna + cable 1
Mode 1 has been evaluated to be the worst case among Mode 1~3 thus measurement for Mode 4 will follow this same test mode.	
4	AP Mode_EUT in X axis (5GHz+Bluetooth Master) with Dipole antenna + cable 1
Mode 4 has been evaluated to be the worst case among Mode 1~4 thus measurement for Mode 5~6 will follow this same test mode.	
5	Slave Mode_EUT in X axis (5GHz+Bluetooth Master) with Dipole antenna + cable 1
6	Slave Mode_EUT in X axis (5GHz+Bluetooth Slave) with Dipole antenna + cable 1
For operating mode 4 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX The EUT was performed at X axis, Y axis and Z axis position and the harmonic worst case was found at Y axis and the bandedge worst case was found at Z axis. So the measurement will follow this same test configuration.
1	EUT in Y axis for harmonic and EUT in Z axis for bandedge

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode	Normal Link The EUT was performed at X axis, Y axis and Z axis position for Emissions in Restricted Frequency Bands above 1GHz, and the worst case was found at Y axis. So the measurement will follow this same test configuration.
1	EUT in Y axis_WLAN 2.4GHz + Bluetooth
2	EUT in Y axis_WLAN 5GHz + Bluetooth
For operating mode 1 is the worst case and it was record in this test report.	
Refer to Appendix G for Radiated Emission Co-location.	



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 2.4GHz + Bluetooth
2	WLAN 5GHz + Bluetooth
Refer to Sporton Test Report No.: FA770523-13 for Co-location RF Exposure Evaluation.	

2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link Mode:

During the test, the EUT operation to normal function.

2.4 Accessories

N/A

2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Fixture 2	Arcadyan	WN9711BTAAC-YA Test Jig	N/A
B	LAN NB	DELL	E6430	N/A
C	AP Router	ASUS	DSL-AC68U	MSQ-RPN53
D	Smart Phone	Samsung	Galaxy J2	N/A
E	Earphone	e-Power	S90W	N/A

For Radiated (below 1GHz):

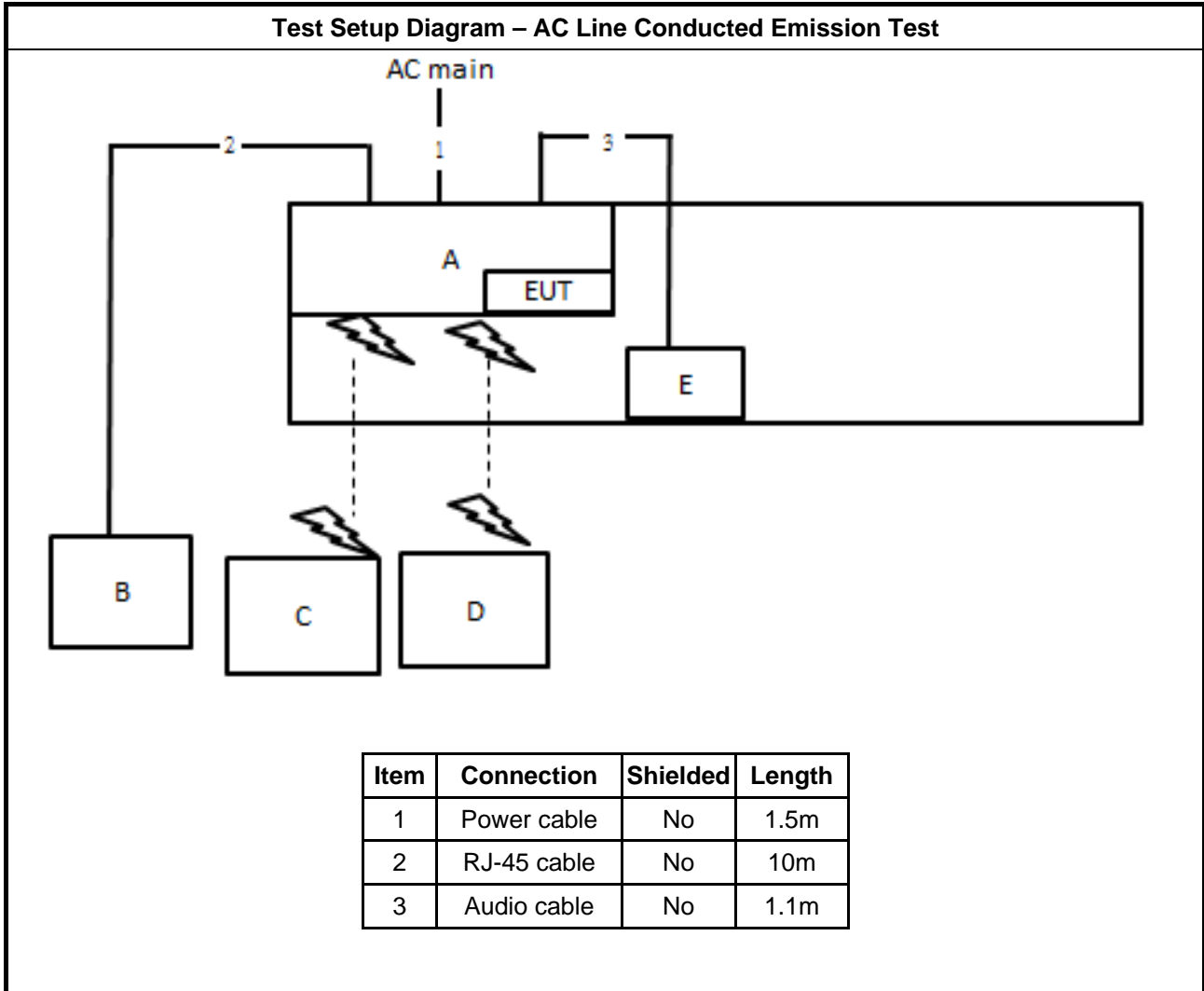
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Fixture 2	Arcadyan	WN9711BTAAC-YA Test Jig	N/A
B	Bluetooth Speaker	MI	XMYX02YM	2AJ7PXMYX02YM
C	Notebook	DELL	E4300	N/A
D	Phone	SAMSUNG	SM-J200Y	A3LSMJ200Y
E	WLAN AP	ASUS	RT-AX88U	MSQ-RTAXHP00



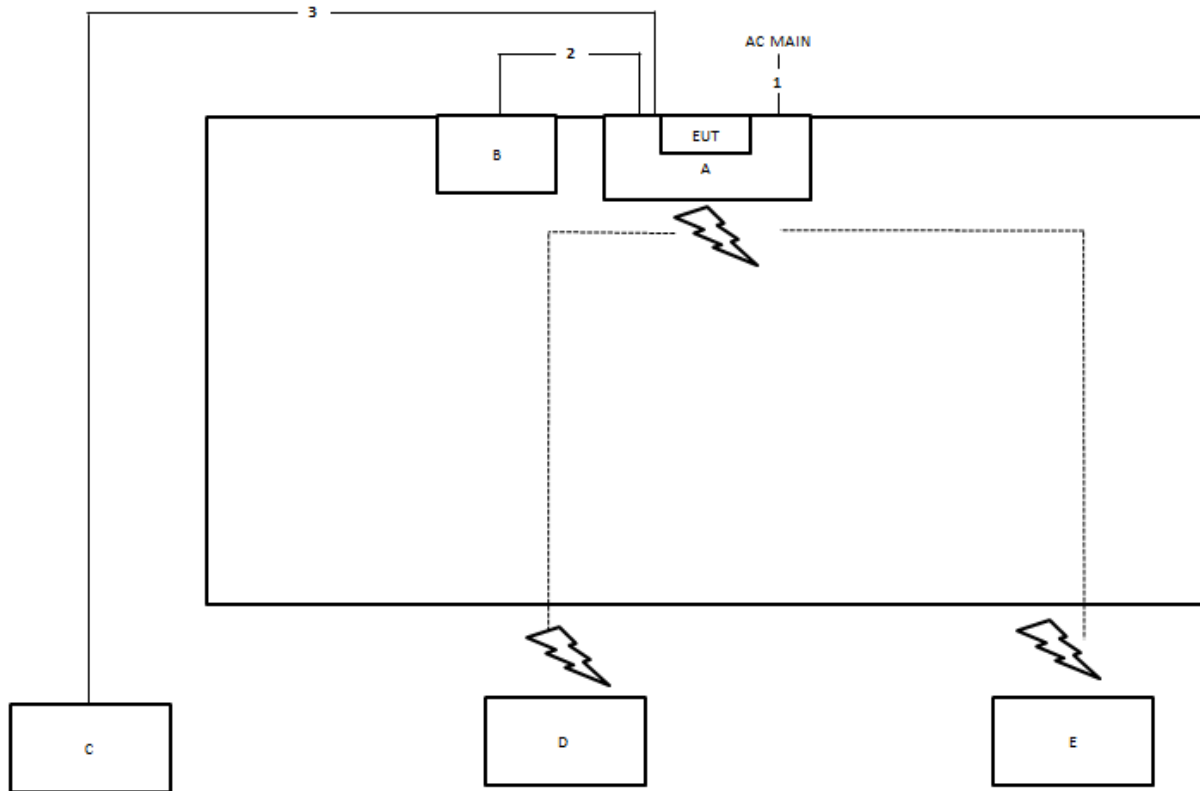
For Radiated (above 1GHz) and RF Conducted:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	Fixture 1	Arcadyan	WN9711BTAAAC-YA Test Jig	N/A

2.6 Test Setup Diagram

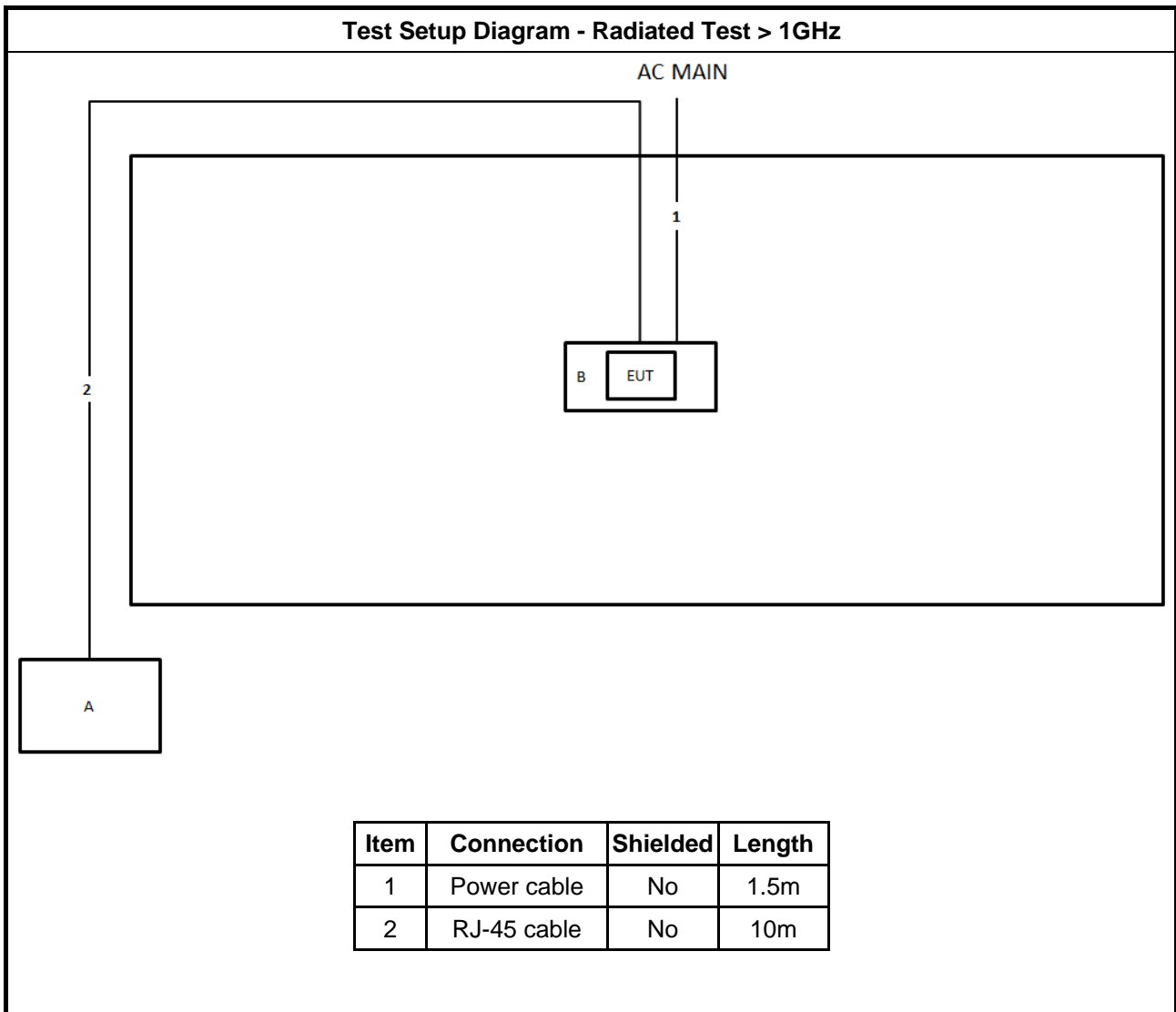


Test Setup Diagram - Radiated Test < 1GHz



Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	Audio cable	No	0.5m
3	RJ-45 cable	No	10m

Test Setup Diagram - Radiated Test > 1GHz





3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

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

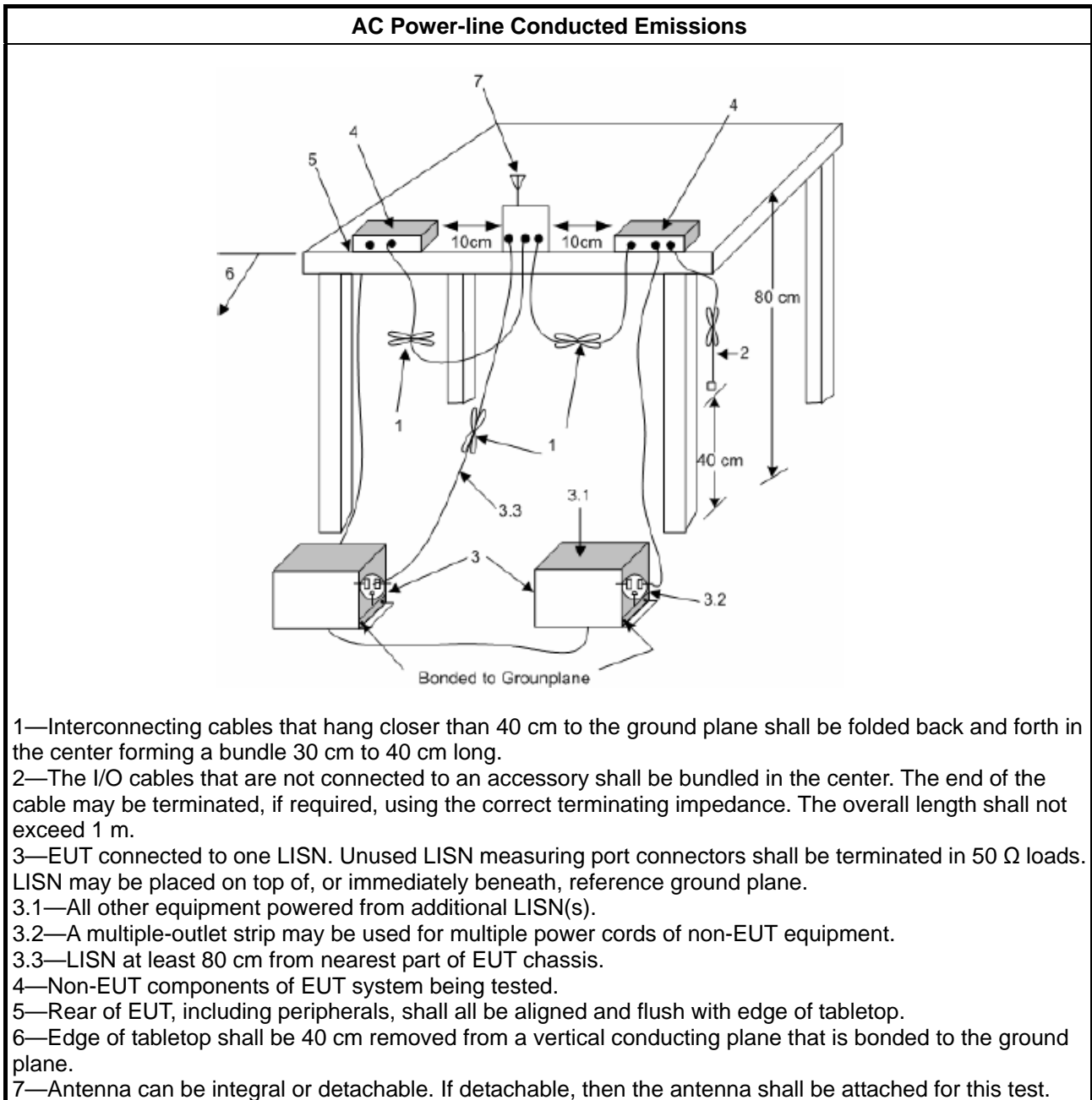
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup



3.1.5 Measurement Results Calculation

The measured Level is calculated using:

- a. Corrected Reading: LISN Factor (LISN) + Attenuator (AT/AUX) + Cable Loss (CL) + Read Level (Raw) = Level
- b. Margin = -Limit + Level

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.

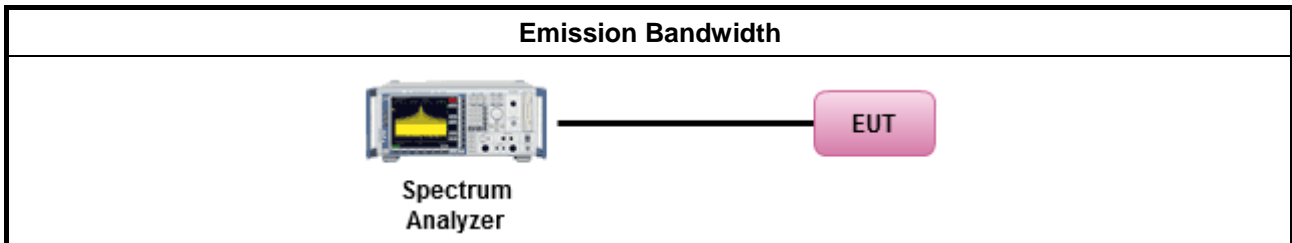
3.2.2 Measuring Instruments

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 FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.1 Option 1 for 6 dB bandwidth measurement.
<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.2 Option 2 for 6 dB bandwidth measurement.
<input type="checkbox"/> Refer as ANSI C63.10, clause 6.9.1 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
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

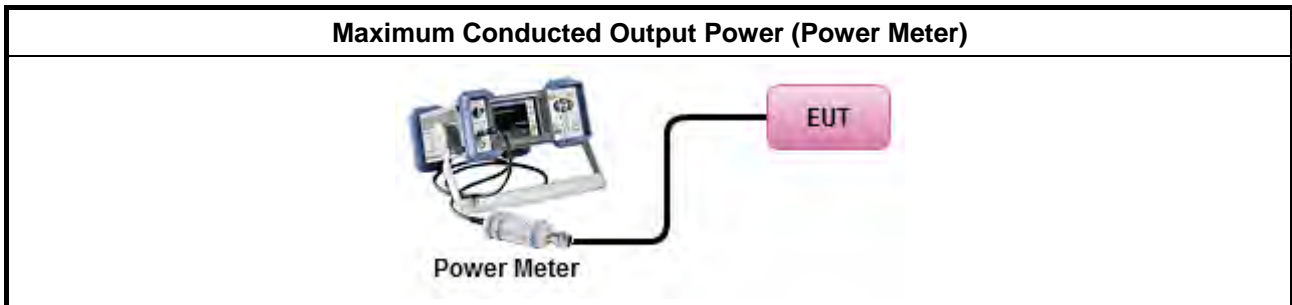
Refer a test equipment and calibration data table in this test report.



3.3.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ Maximum Peak Conducted Output Power 	
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.1.1 & C63.10 clause 11.9.1.1 (RBW ≥ EBW method).
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.1.3 & C63.10 clause 11.9.1.3 (peak power meter).
<ul style="list-style-type: none"> ▪ Maximum Conducted Output Power 	
[duty cycle ≥ 98% or external video / power trigger]	
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.2 Method AVGSA-1.
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.3 Method AVGSA-1A. (alternative)
duty cycle < 98% and average over on/off periods with duty factor	
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.4 Method AVGSA-2.
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.5 Method AVGSA-2A (alternative)
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.6 Method AVGSA-3
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.7 Method AVGSA-3A (alternative)
Measurement using a power meter (PM)	
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.1 Method AVGPM (using an RF average power meter).
<input checked="" type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.2 Method AVGPM-G (using an gate RF average 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 FCC 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) \leq 8 dBm/3kHz

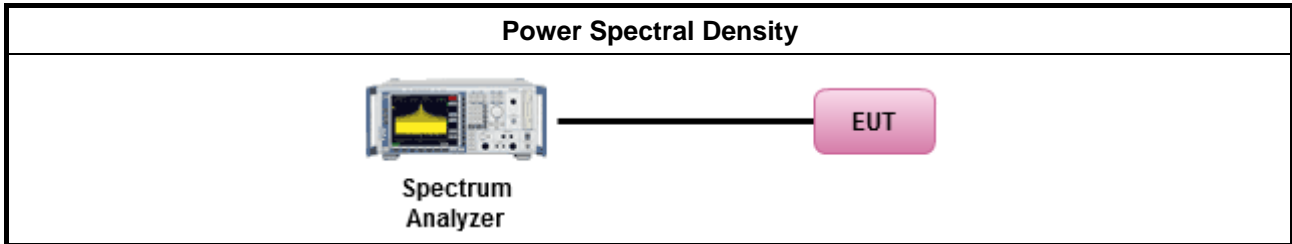
3.4.2 Measuring Instruments

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 FCC KDB 558074, clause 8.4 & C63.10 clause 11.10 Method 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: <table border="1"> <tbody> <tr> <td> <input type="checkbox"/> Option 1: Measure and sum the spectra across the outputs. Refer as FCC 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. </td> </tr> <tr> <td> <input type="checkbox"/> Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits, </td> </tr> <tr> <td> <input type="checkbox"/> Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit. </td> </tr> </tbody> </table> 	<input type="checkbox"/> Option 1: Measure and sum the spectra across the outputs. Refer as FCC 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.	<input type="checkbox"/> Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,	<input type="checkbox"/> Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.
<input type="checkbox"/> Option 1: Measure and sum the spectra across the outputs. Refer as FCC 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.			
<input type="checkbox"/> Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,			
<input type="checkbox"/> Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.			

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 (dBc)
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 PSD 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 PSD level.

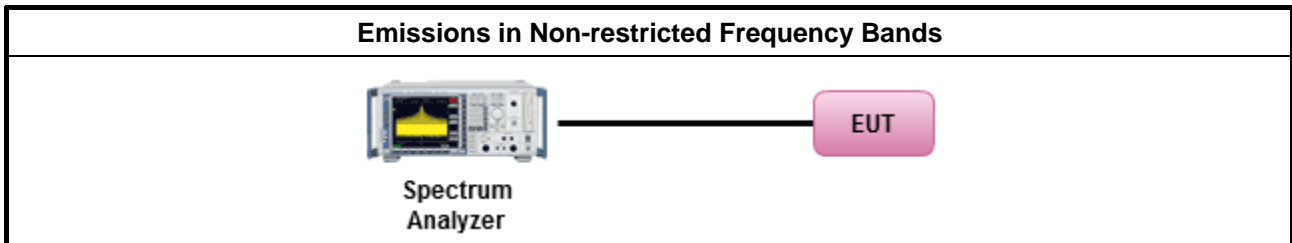
3.5.2 Measuring Instruments

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 FCC KDB 558074, clause 8.5 for unwanted emissions into non-restricted 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

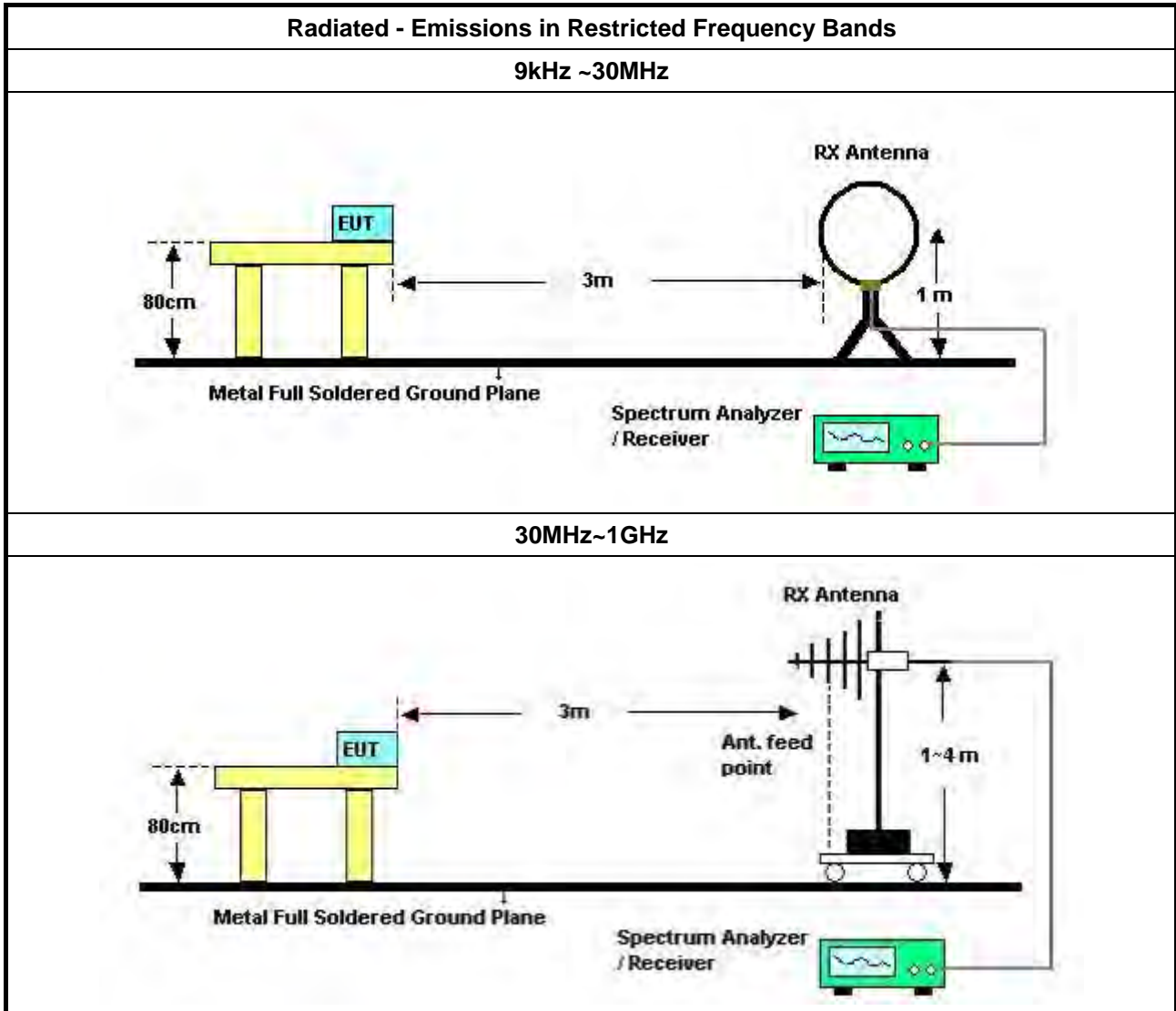
Refer a test equipment and calibration data table in this test report.

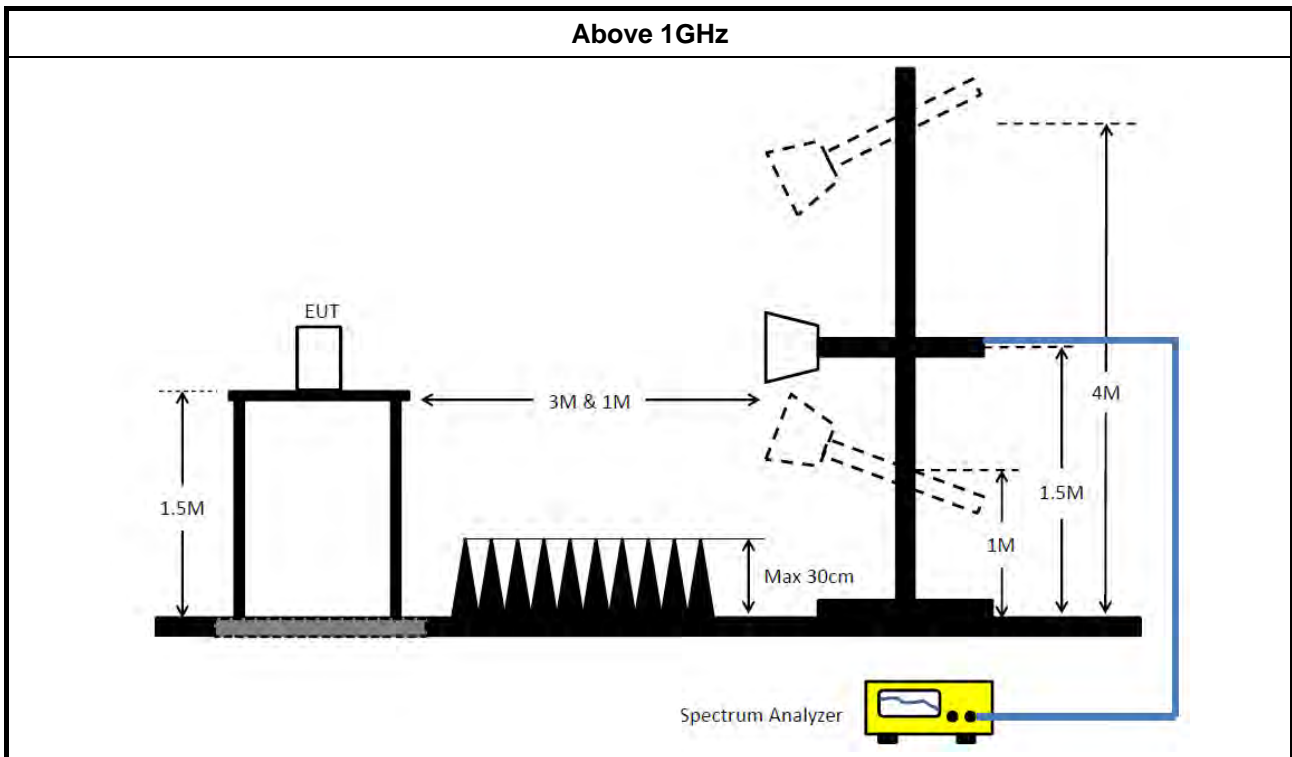


3.6.3 Test Procedures

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 FCC KDB 558074, clause 8.6 for unwanted emissions into restricted bands.
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.1(trace averaging for duty cycle \geq 98%).
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.2(trace averaging + duty factor).
<input checked="" type="checkbox"/>	Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.3(Reduced VBW \geq 1/T).
<input type="checkbox"/>	Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW \geq 1/T, where T is pulse time.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
<input checked="" type="checkbox"/>	Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.4 measurement procedure peak limit.
<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 FCC KDB 558074 clause 8.7 & C63.10 clause 11.13.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.
	<ul style="list-style-type: none"> ▪ Refer as FCC KDB 558074, clause 8.7 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements.
	<ul style="list-style-type: none"> ▪ Refer as FCC KDB 558074, clause 8.7 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).
	<ul style="list-style-type: none"> ▪ For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB
	<ul style="list-style-type: none"> ▪ For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.

3.6.4 Test Setup





3.6.5 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Antenna factor (AF) + Cable loss (CL) + Read level (Raw) - Preamp factor (PA)(if applicable) = Level.

3.6.6 Emissions in Restricted Frequency Bands (Below 30MHz)

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to KDB414788 Radiated Test Site, and the result came out very similar.

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

The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10th harmonic or 40 GHz, whichever is appropriate.

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F



4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Feb. 22, 2022	Feb. 21, 2023	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Feb. 09, 2022	Feb. 08, 2023	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Apr. 12, 2022	Apr. 11, 2023	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Feb. 10, 2022	Feb. 09, 2023	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	May 19, 2021	May 18, 2022	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6120	31244	9kHz - 30 MHz	Mar. 18, 2022	Mar. 17, 2023	Radiation (03CH05-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz ~ 1 GHz	Aug. 09, 2021	Aug. 08, 2022	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH05-CB	1GHz ~18GHz 3m	Nov. 07, 2021	Nov. 06, 2022	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 25, 2022	Mar. 24, 2023	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	Apr. 27, 2021	Apr. 26, 2022	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Mar. 14, 2022	Mar. 13, 2023	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 21, 2021	Jun. 20, 2022	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Oct. 13, 2021	Oct. 12, 2022	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH01-CB	1GHz ~18GHz 3m	May 06, 2022	May 05, 2023	Radiation (03CH01-CB)
Horn Antenna	ETS-LINDGREN	3115	00075790	750MHz ~ 18GHz	Nov. 06, 2021	Nov. 05, 2022	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 05, 2021	Aug. 04, 2022	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02121	1GHz ~ 26.5GHz	May 19, 2022	May 18, 2023	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 13, 2021	Jul. 12, 2022	Radiation (03CH01-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	May 06, 2022	May 05, 2023	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16	1 GHz ~ 18 GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16+17	1 GHz ~ 18 GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 08, 2021	Dec. 07, 2022	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH01-CB)
3m Semi Anechoic Chamber VSWR	RIKEN	SAC-3M	03CH02-CB	1GHz ~18GHz	Mar. 26, 2022	Mar. 25, 2023	Radiation (03CH02-CB)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1370	1GHz~18GHz	Sep. 14, 2021	Sep. 13, 2022	Radiation (03CH02-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 05, 2021	Aug. 04, 2022	Radiation (03CH02-CB)
Pre-Amplifier	Agilent	83017A	MY39501305	1GHz ~ 26.5GHz	Jul. 12, 2021	Jul. 11, 2022	Radiation (03CH02-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 13, 2021	Jul. 12, 2022	Radiation (03CH02-CB)
Spectrum analyzer	R&S	FSU	100015	9kHz~26GHz	Oct. 25, 2021	Oct. 24, 2022	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18	1GHz ~ 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18+19	1GHz ~ 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 08, 2021	Dec. 07, 2022	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH02-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH02-CB)
Spectrum analyzer	R&S	FSV40	101028	9kHz~40GHz	Jan. 07, 2022	Jan. 06, 2023	Conducted (TH03-CB)
Power Sensor	Anritsu	MA2411B	1726195	300MHz~40GHz	Aug. 22, 2021	Aug. 21, 2022	Conducted (TH03-CB)
Power Meter	Anritsu	ML2495A	1035008	300MHz~40GHz	Aug. 22, 2021	Aug. 21, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-11	1 GHz ~18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-12	1 GHz ~18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-13	1 GHz –18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-14	1 GHz –18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-15	1 GHz –18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
Switch	SPTCB	SP-SWI	SWI-03	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	SWI-03-P1	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	SWI-03-P2	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	SWI-03-P3	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	SWI-03-P4	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	SWI-03-P5	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH03-CB)

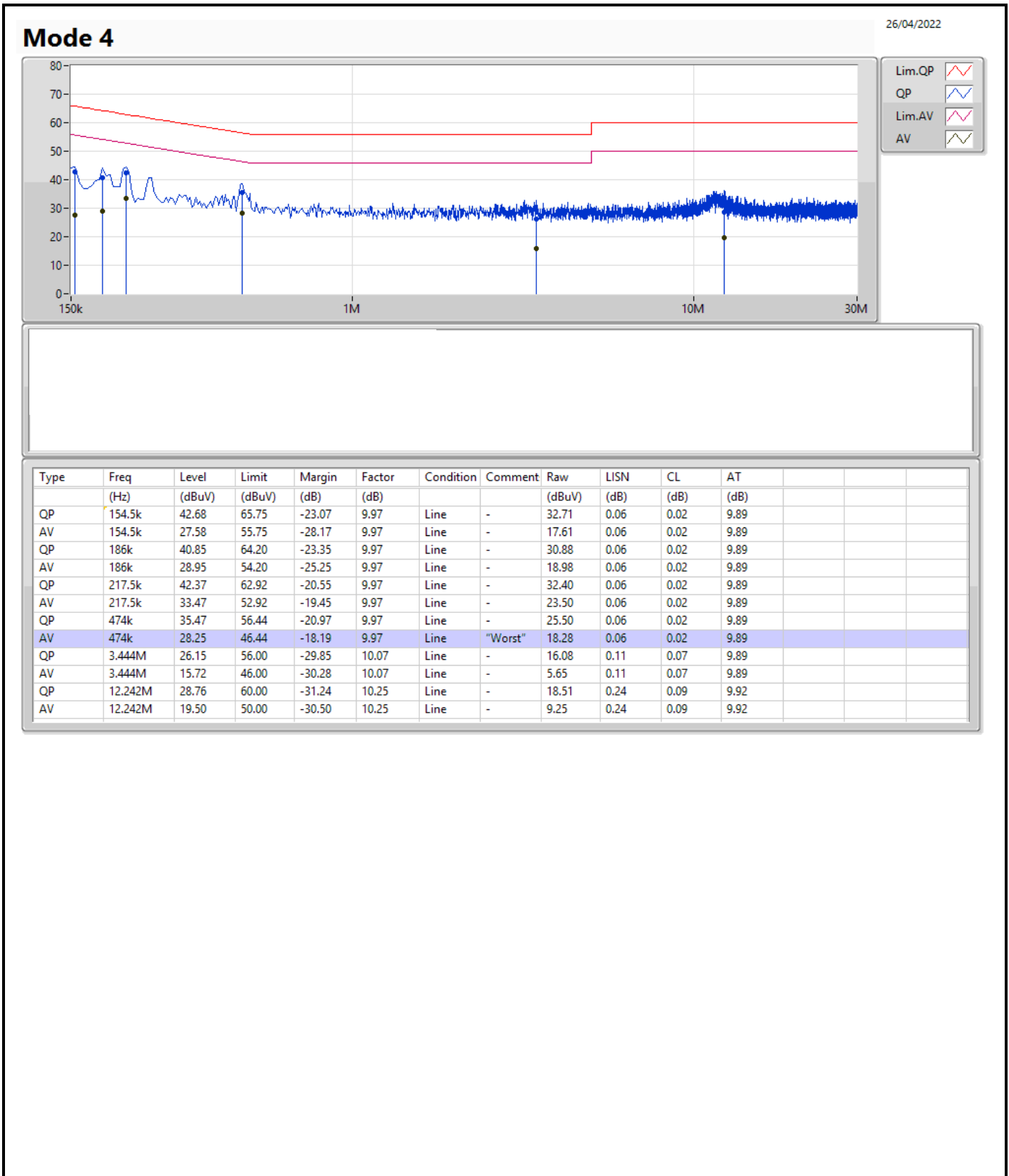
Note: Calibration Interval of instruments listed above is one year.

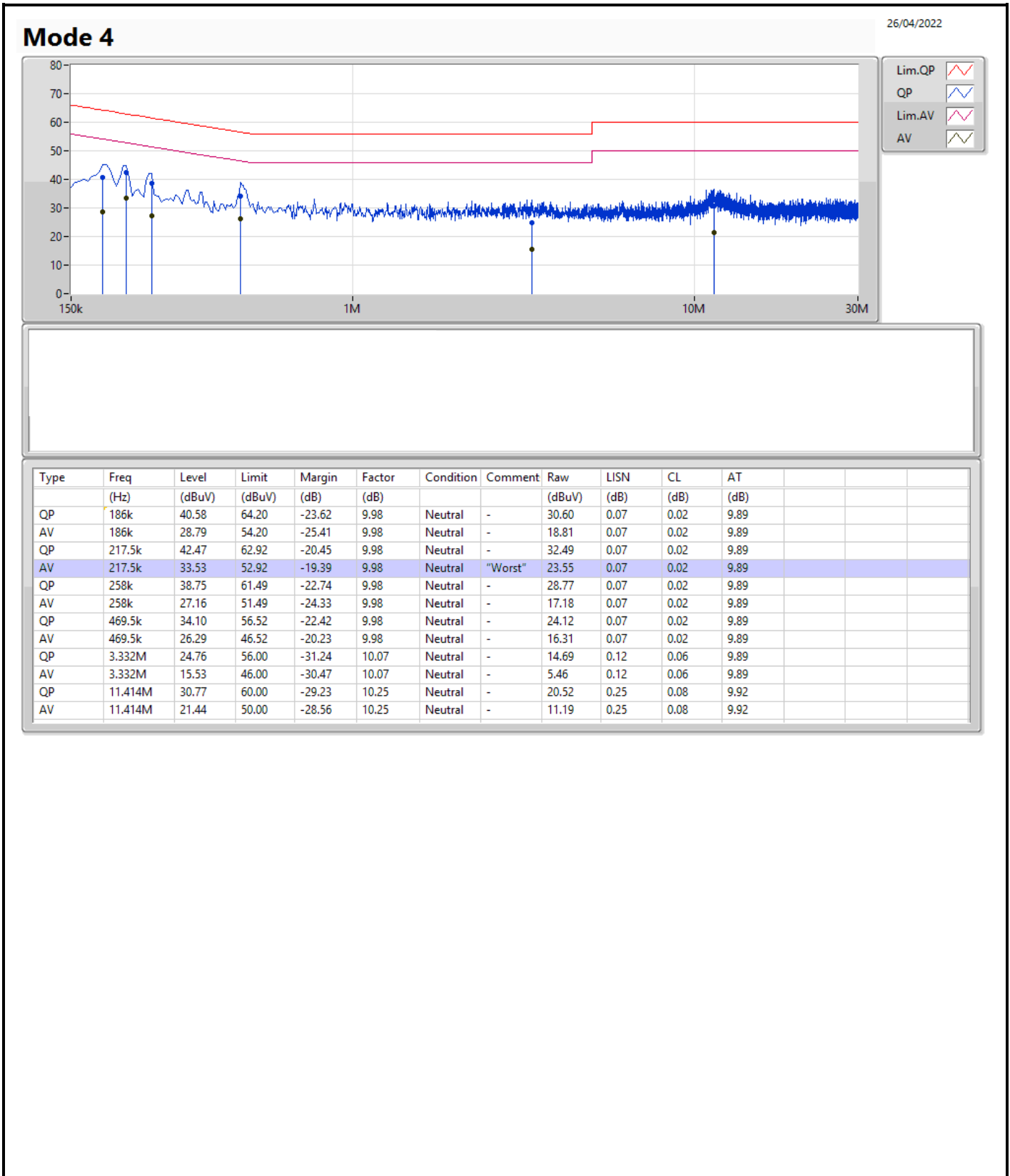
N.C.R. means Non-Calibration required.



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin	Condition
						(dB)	
Mode 4	Pass	AV	474k	28.25	46.44	-18.19	Line





Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	8.575M	13.85M	13M8G1D	8.075M	11.9M
802.11g_Nss1,(6Mbps)_1TX	16.3M	16.75M	16M7D1D	16M	16.55M
802.11n HT20_Nss1,(MCS0)_1TX	17.3M	17.975M	18M0D1D	15.525M	17.675M
802.11n HT40_Nss1,(MCS0)_1TX	35.55M	36.332M	36M3D1D	33.8M	36.132M

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)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	8.575M	11.9M
2437MHz	Pass	500k	8.075M	13.85M
2462MHz	Pass	500k	8.525M	11.95M
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	16.3M	16.7M
2437MHz	Pass	500k	16.3M	16.75M
2462MHz	Pass	500k	16M	16.55M
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-
2412MHz	Pass	500k	17.3M	17.8M
2437MHz	Pass	500k	16.75M	17.975M
2462MHz	Pass	500k	15.525M	17.675M
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-
2422MHz	Pass	500k	35.15M	36.332M
2437MHz	Pass	500k	35.55M	36.332M
2452MHz	Pass	500k	33.8M	36.132M

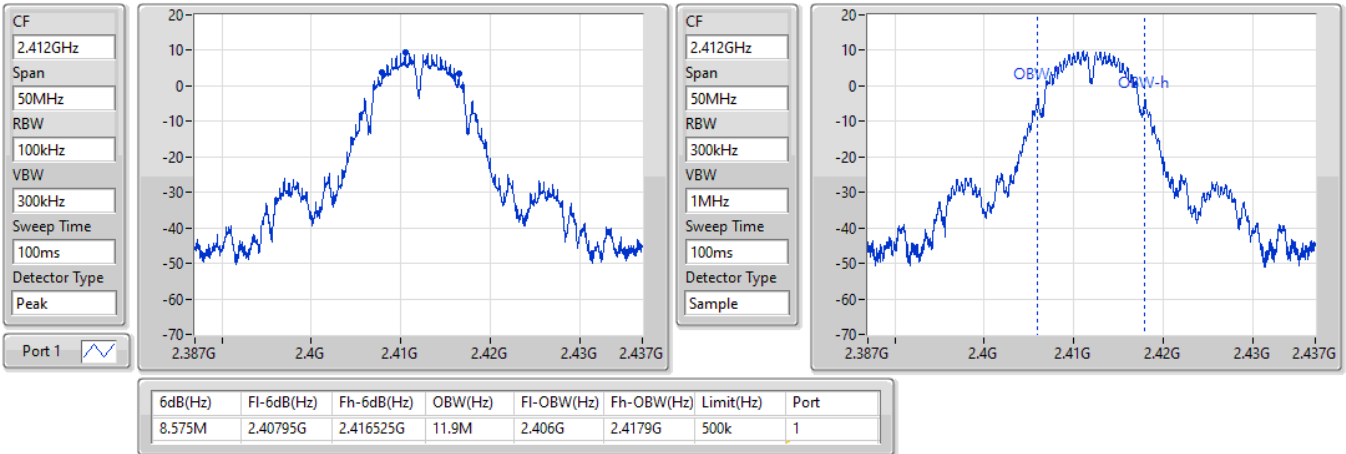
Port X-N dB = Port X 6dB down bandwidth;
 Port X-OBW = Port X 99% occupied bandwidth

802.11b_Nss1,(1Mbps)_1TX

EBW

2412MHz

27/04/2022

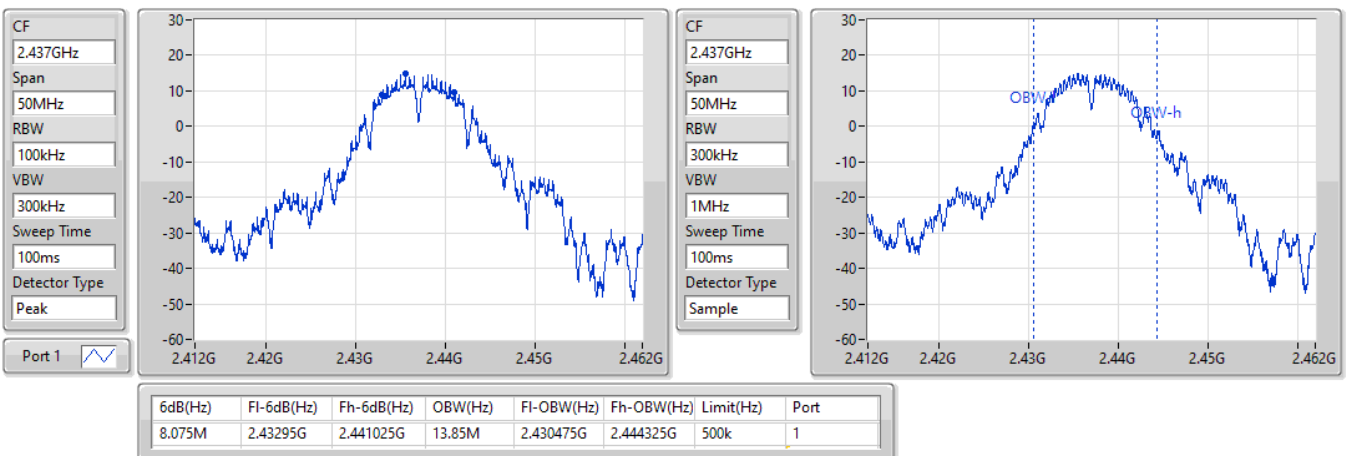


802.11b_Nss1,(1Mbps)_1TX

EBW

2437MHz

27/04/2022

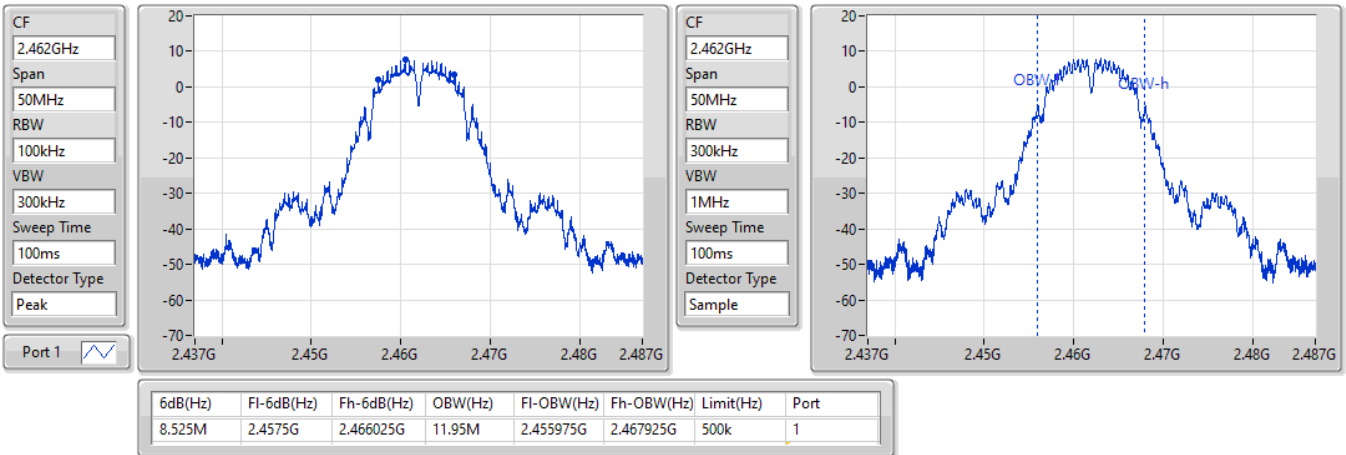


802.11b_Nss1,(1Mbps)_1TX

EBW

2462MHz

27/04/2022

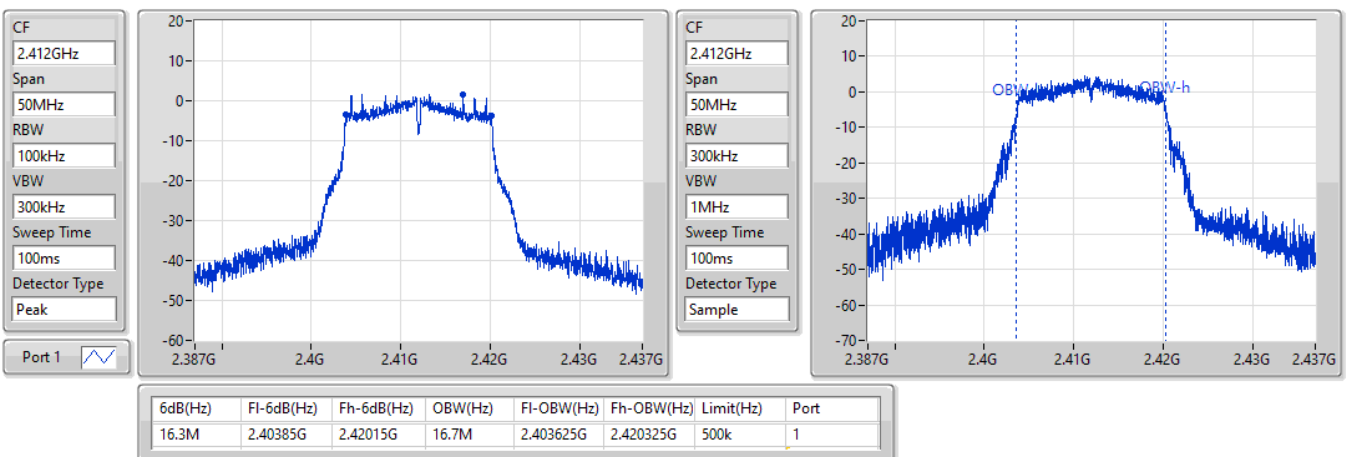


802.11g_Nss1,(6Mbps)_1TX

EBW

2412MHz

27/04/2022

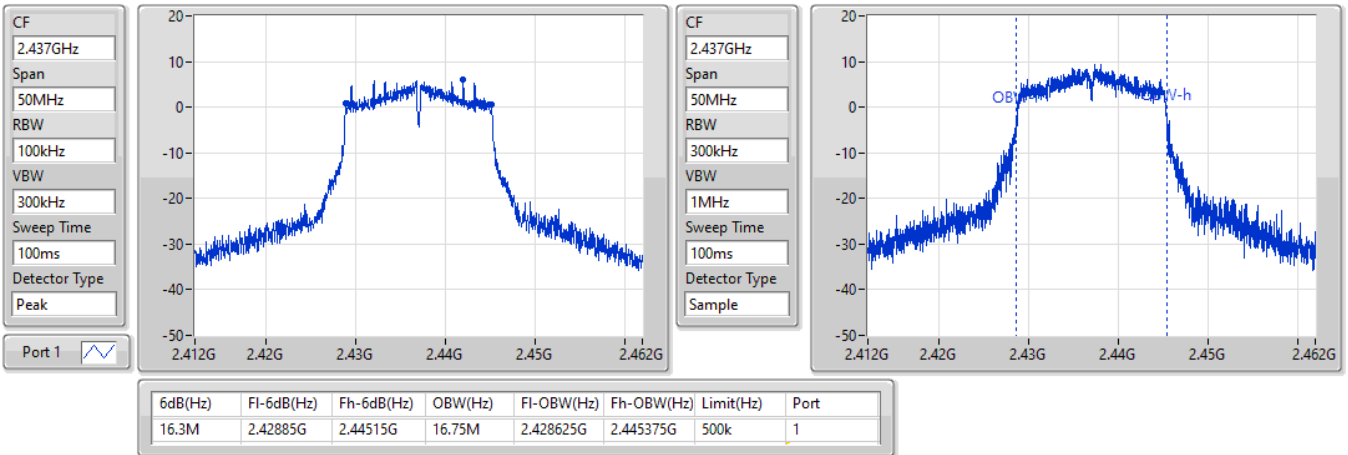


802.11g_Nss1,(6Mbps)_1TX

EBW

2437MHz

27/04/2022

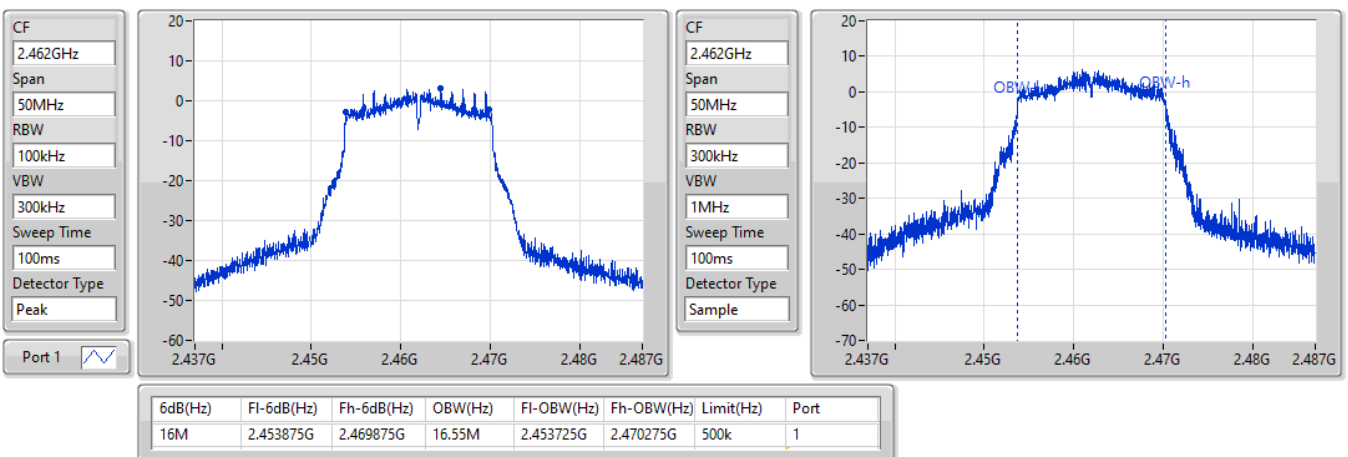


802.11g_Nss1,(6Mbps)_1TX

EBW

2462MHz

27/04/2022

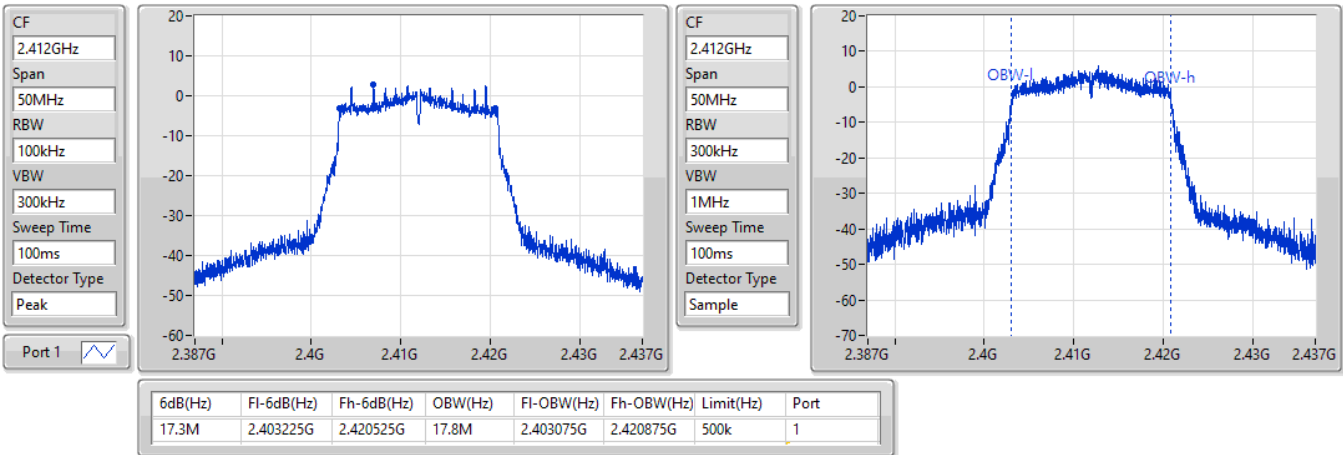


802.11n HT20_Nss1,(MCS0)_1TX

EBW

2412MHz

27/04/2022

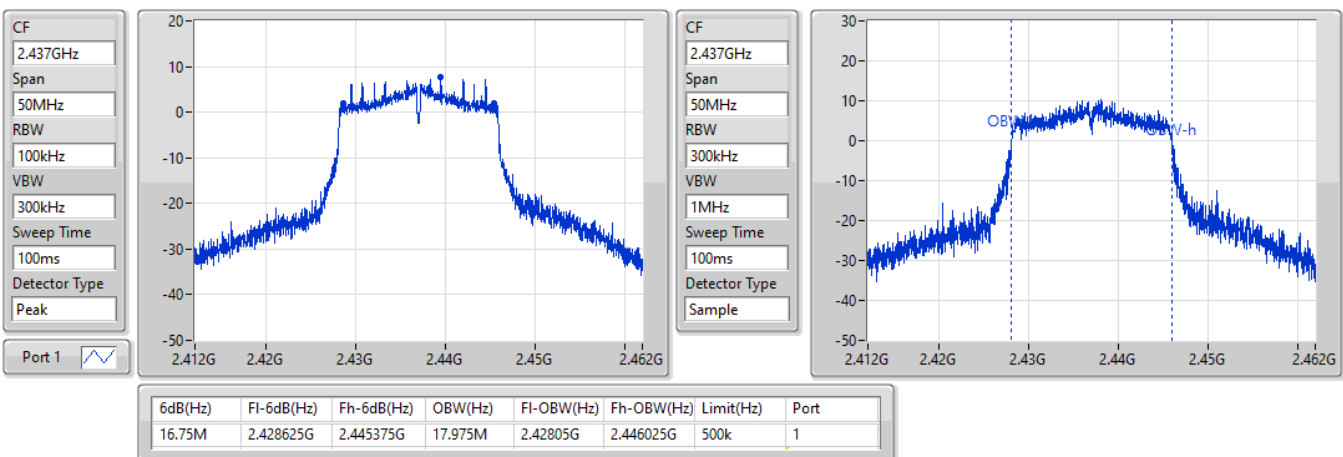


802.11n HT20_Nss1,(MCS0)_1TX

EBW

2437MHz

27/04/2022

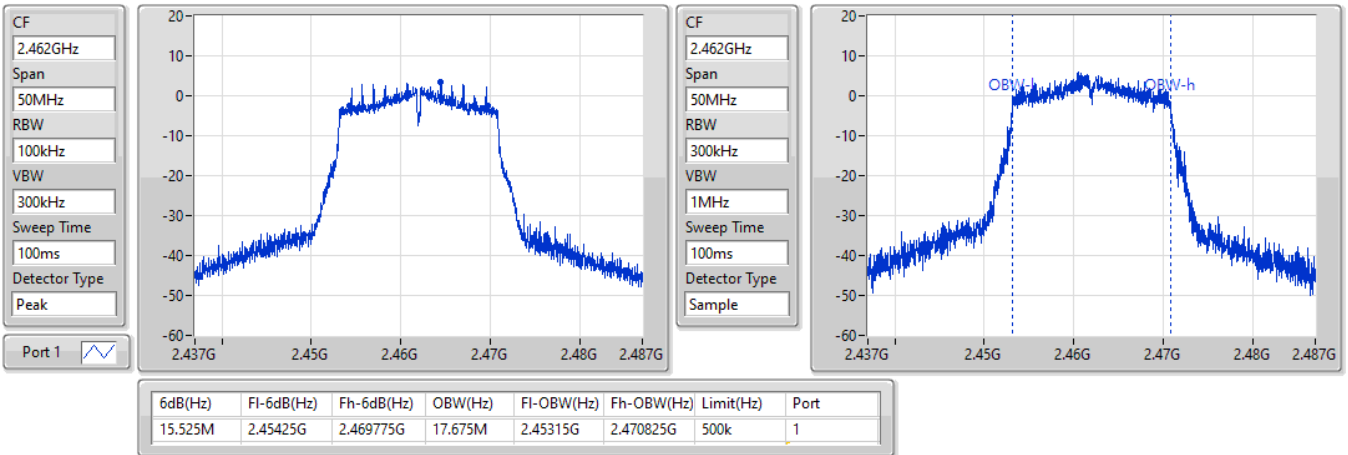


802.11n HT20_Nss1,(MCS0)_1TX

EBW

2462MHz

27/04/2022

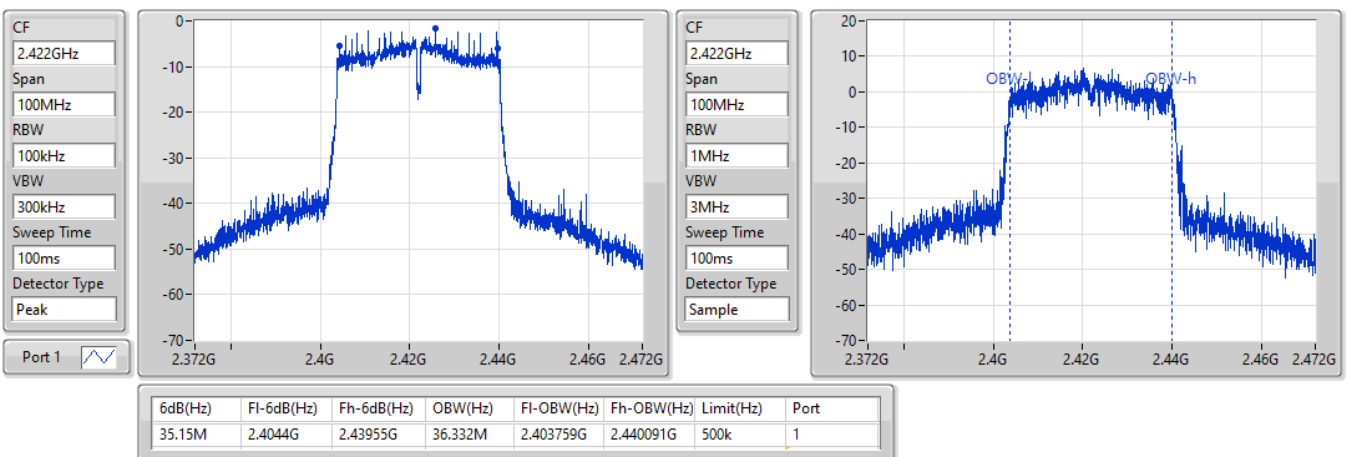


802.11n HT40_Nss1,(MCS0)_1TX

EBW

2422MHz

30/05/2022

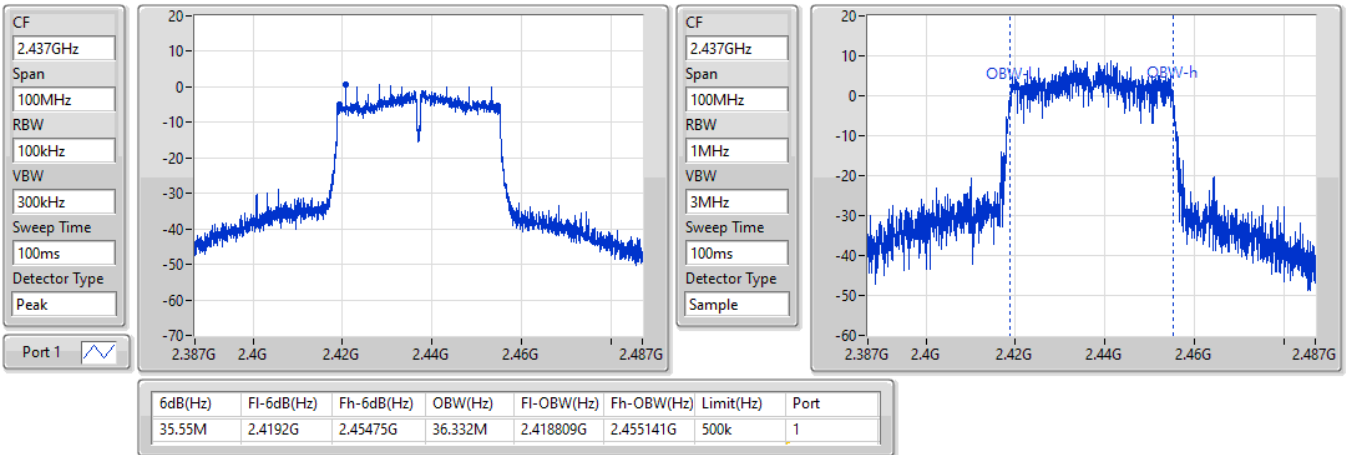


802.11n HT40_Nss1,(MCS0)_1TX

EBW

2437MHz

30/05/2022

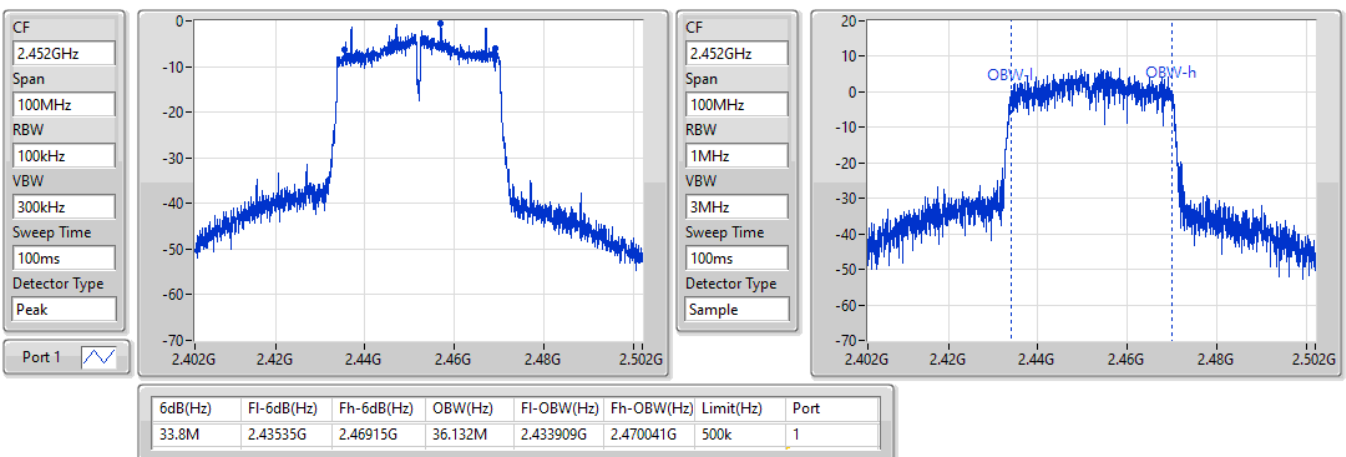


802.11n HT40_Nss1,(MCS0)_1TX

EBW

2452MHz

30/05/2022





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX	23.56	0.22699
802.11g_Nss1,(6Mbps)_1TX	18.37	0.06871
802.11n HT20_Nss1,(MCS0)_1TX	19.34	0.08590
802.11n HT40_Nss1,(MCS0)_1TX	15.75	0.03758



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	3.16	18.39	18.39	30.00
2417MHz	Pass	3.16	21.00	21.00	30.00
2437MHz	Pass	3.16	23.56	23.56	30.00
2457MHz	Pass	3.16	19.19	19.19	30.00
2462MHz	Pass	3.16	16.82	16.82	30.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	3.16	13.91	13.91	30.00
2417MHz	Pass	3.16	16.18	16.18	30.00
2437MHz	Pass	3.16	18.37	18.37	30.00
2457MHz	Pass	3.16	15.85	15.85	30.00
2462MHz	Pass	3.16	14.96	14.96	30.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	3.16	14.40	14.40	30.00
2417MHz	Pass	3.16	17.11	17.11	30.00
2437MHz	Pass	3.16	19.34	19.34	30.00
2457MHz	Pass	3.16	18.02	18.02	30.00
2462MHz	Pass	3.16	15.10	15.10	30.00
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-
2422MHz	Pass	3.16	12.57	12.57	30.00
2427MHz	Pass	3.16	12.63	12.63	30.00
2437MHz	Pass	3.16	15.75	15.75	30.00
2452MHz	Pass	3.16	13.48	13.48	30.00

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



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_1TX	1.17
802.11g_Nss1,(6Mbps)_1TX	-5.1
802.11n HT20_Nss1,(MCS0)_1TX	-5.04
802.11n HT40_Nss1,(MCS0)_1TX	-11.29

RBW = 3kHz;

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	3.16	-4.31	-4.31	8.00
2437MHz	Pass	3.16	1.17	1.17	8.00
2462MHz	Pass	3.16	-6.8	-6.80	8.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	3.16	-9.62	-9.62	8.00
2437MHz	Pass	3.16	-5.1	-5.10	8.00
2462MHz	Pass	3.16	-8.6	-8.60	8.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	3.16	-9.8	-9.80	8.00
2437MHz	Pass	3.16	-5.04	-5.04	8.00
2462MHz	Pass	3.16	-9.21	-9.21	8.00
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-
2422MHz	Pass	3.16	-14.28	-14.28	8.00
2437MHz	Pass	3.16	-11.29	-11.29	8.00
2452MHz	Pass	3.16	-14.05	-14.05	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;

802.11b_Nss1,(1Mbps)_1TX

PSD

2412MHz

27/04/2022

CF
2.412GHz

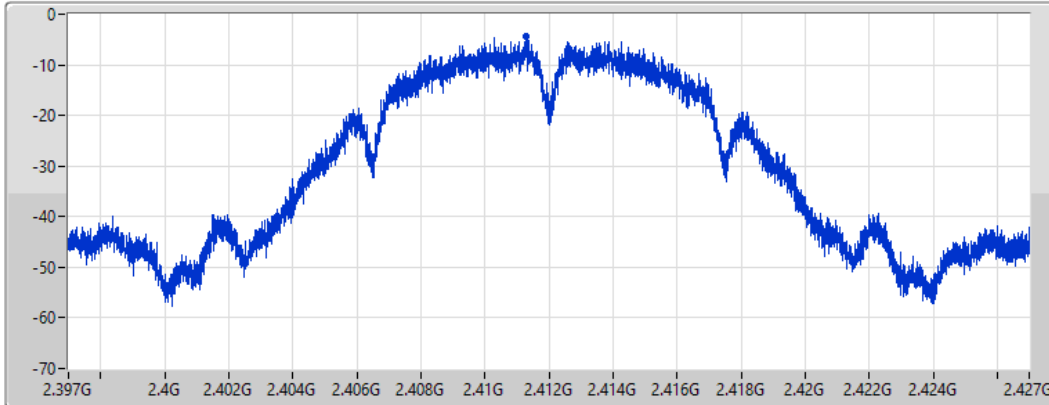
Span
30MHz


RBW
3kHz

VBW
10kHz

Sweep Time
3.4s

Detector Type
Peak



Port 1 

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-4.31	-4.31	-4.31

802.11b_Nss1,(1Mbps)_1TX

PSD

2437MHz

27/04/2022

CF
2.437GHz

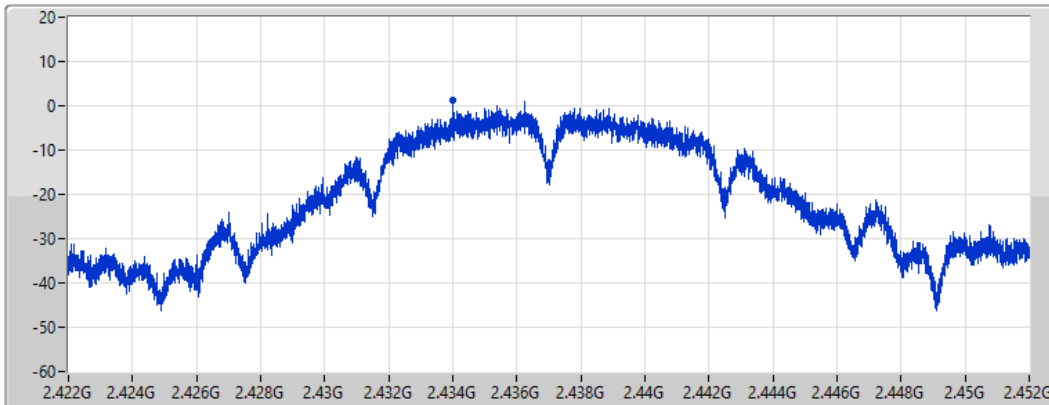
Span
30MHz


RBW
3kHz

VBW
10kHz

Sweep Time
3.4s

Detector Type
Peak



Port 1 

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.17	1.17	1.17

802.11b_Nss1,(1Mbps)_1TX

PSD

2462MHz

27/04/2022

CF
2.462GHz

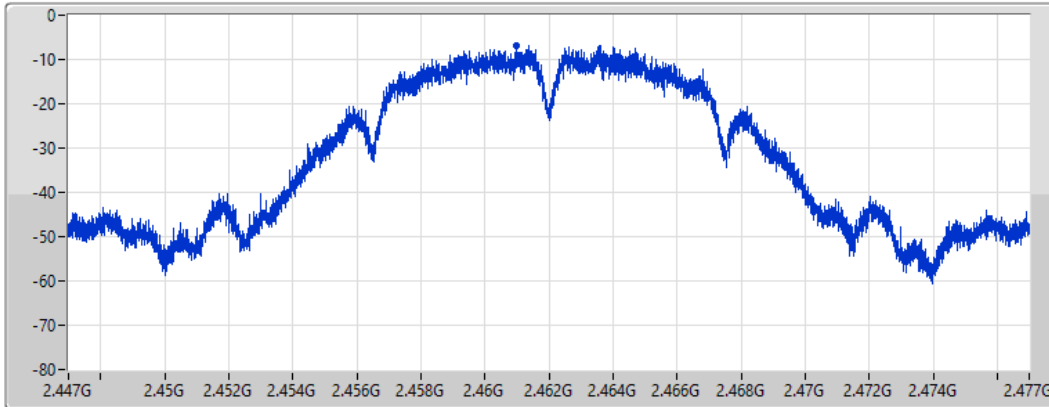
Span
30MHz


RBW
3kHz

VBW
10kHz

Sweep Time
3.4s

Detector Type
Peak



Port 1 

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.80	-6.80	-6.80

802.11g_Nss1,(6Mbps)_1TX

PSD

2412MHz

27/04/2022

CF
2.412GHz

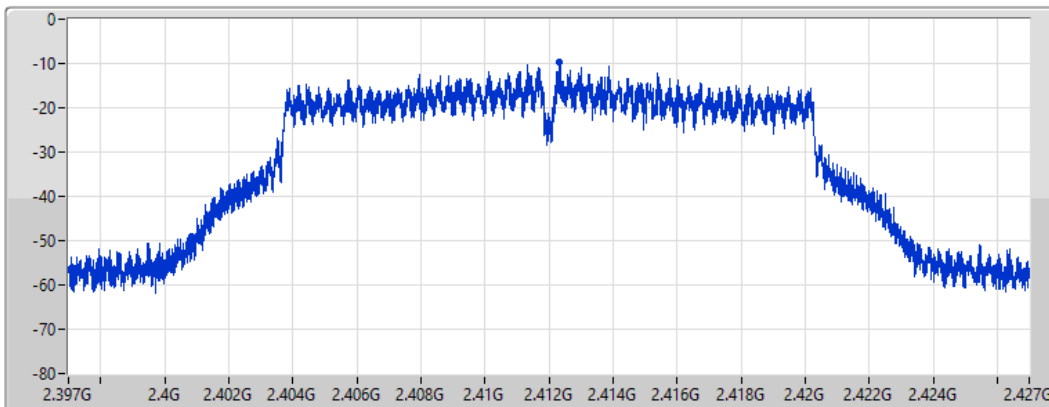
Span
30MHz


RBW
3kHz

VBW
10kHz

Sweep Time
3.4s

Detector Type
Peak



Port 1 

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

802.11g_Nss1,(6Mbps)_1TX

PSD

2437MHz

27/04/2022

CF
2.437GHz

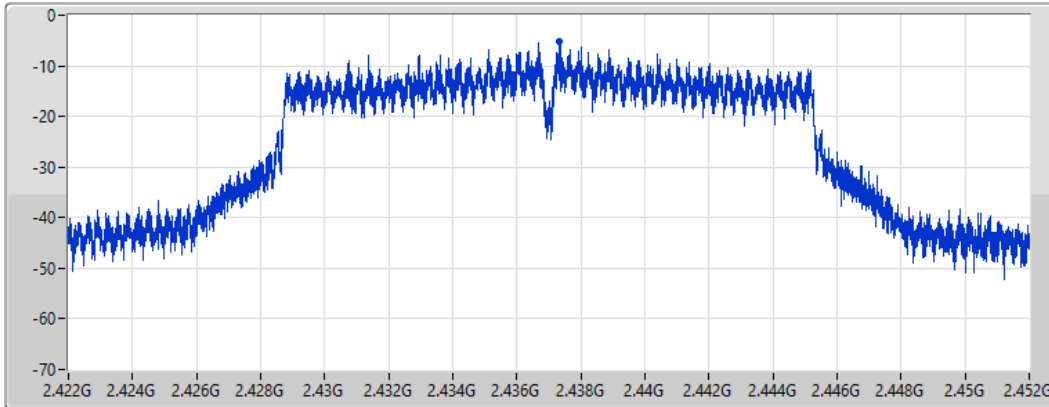
Span
30MHz


RBW
3kHz

VBW
10kHz

Sweep Time
3.4s

Detector Type
Peak



Port 1 

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.10	-5.10	-5.10

802.11g_Nss1,(6Mbps)_1TX

PSD

2462MHz

27/04/2022

CF
2.462GHz

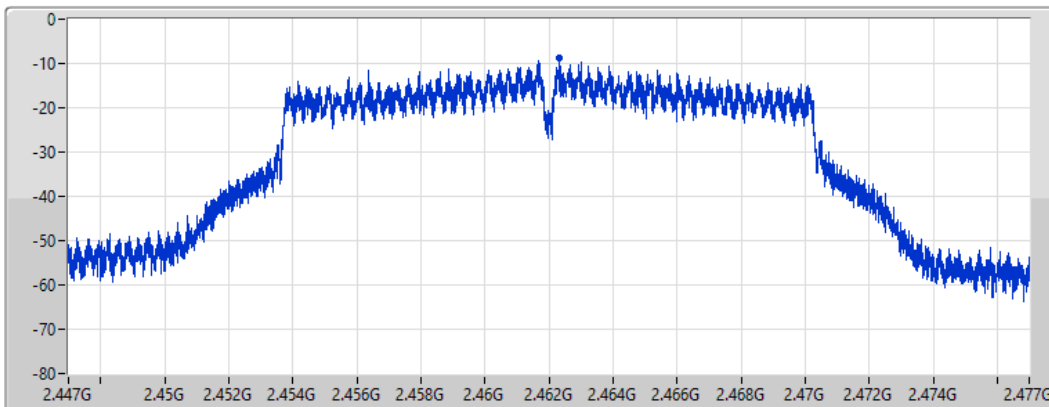
Span
30MHz


RBW
3kHz

VBW
10kHz

Sweep Time
3.4s

Detector Type
Peak



Port 1 

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.60	-8.60	-8.60

802.11n HT20_Nss1,(MCS0)_1TX

PSD

2412MHz

27/04/2022

CF
2.412GHz

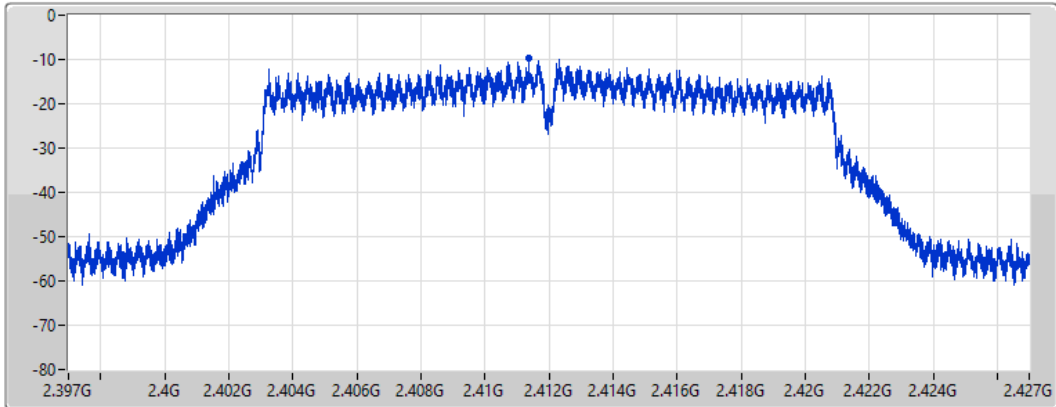
Span
30MHz


RBW
3kHz

VBW
10kHz

Sweep Time
3.4s

Detector Type
Peak



Port 1 

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.80	-9.80	-9.80

802.11n HT20_Nss1,(MCS0)_1TX

PSD

2437MHz

27/04/2022

CF
2.437GHz

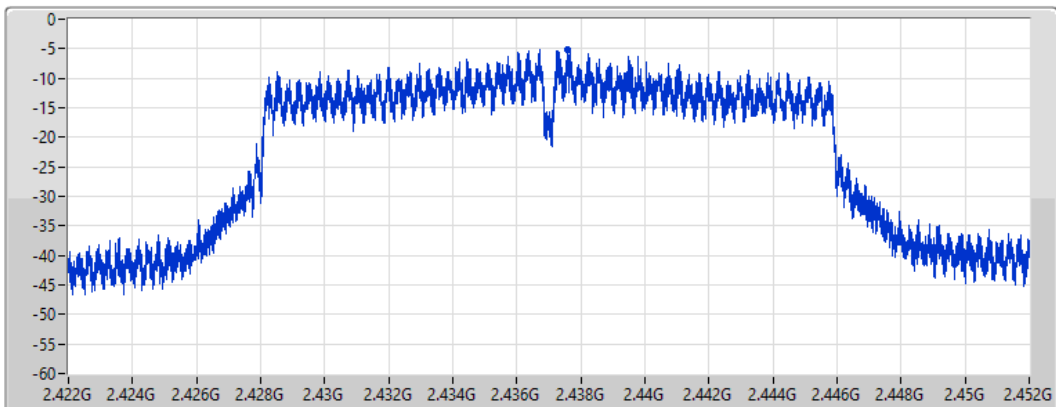
Span
30MHz


RBW
3kHz

VBW
10kHz

Sweep Time
3.4s

Detector Type
Peak



Port 1 

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.04	-5.04	-5.04

802.11n HT20_Nss1,(MCS0)_1TX

PSD

2462MHz

27/04/2022

CF
2.462GHz

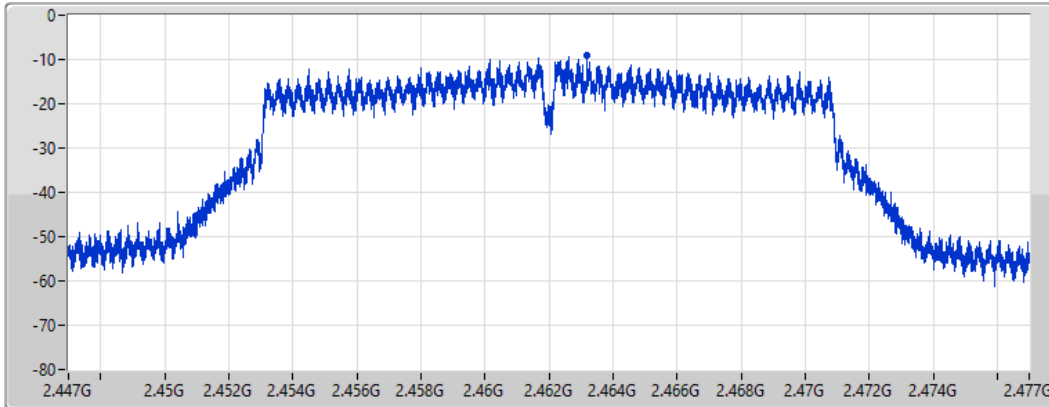
Span
30MHz


RBW
3kHz

VBW
10kHz

Sweep Time
3.4s

Detector Type
Peak



Port 1 

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.21	-9.21	-9.21

802.11n HT40_Nss1,(MCS0)_1TX

PSD

2422MHz

30/05/2022

CF
2.422GHz

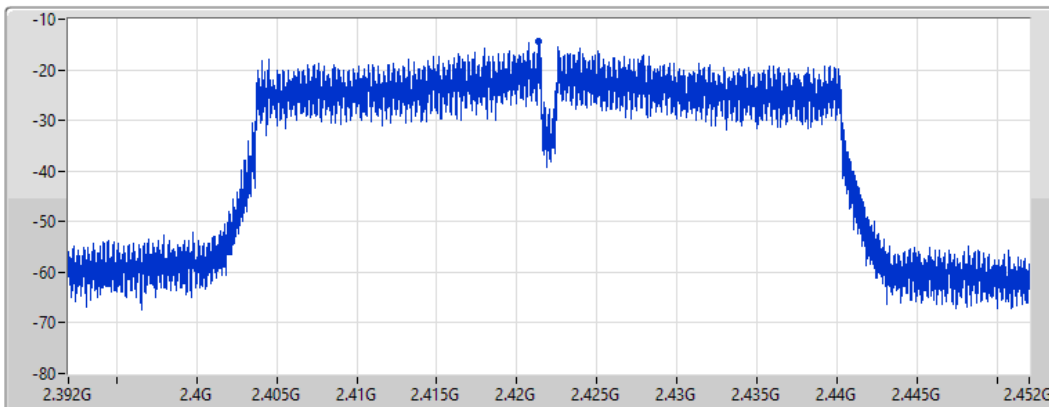
Span
60MHz


RBW
3kHz

VBW
10kHz

Sweep Time
8.848933ms

Detector Type
Peak



Port 1 

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-14.28	-14.28	-14.28

802.11n HT40_Nss1,(MCS0)_1TX

PSD

2437MHz

30/05/2022

CF
2.437GHz

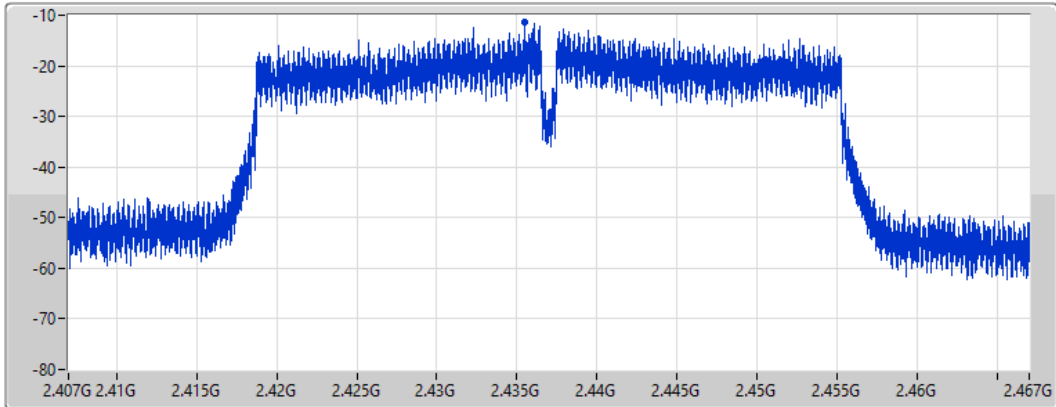
Span
60MHz


RBW
3kHz

VBW
10kHz

Sweep Time
8.848933ms

Detector Type
Peak



Port 1 

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-11.29	-11.29	-11.29

802.11n HT40_Nss1,(MCS0)_1TX

PSD

2452MHz

30/05/2022

CF
2.452GHz

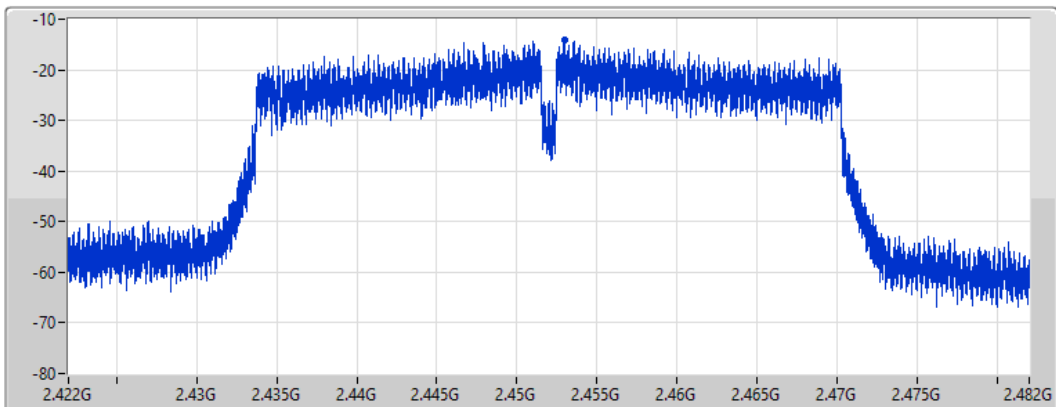
Span
60MHz


RBW
3kHz

VBW
10kHz

Sweep Time
8.848933ms

Detector Type
Peak



Port 1 

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-14.05	-14.05	-14.05

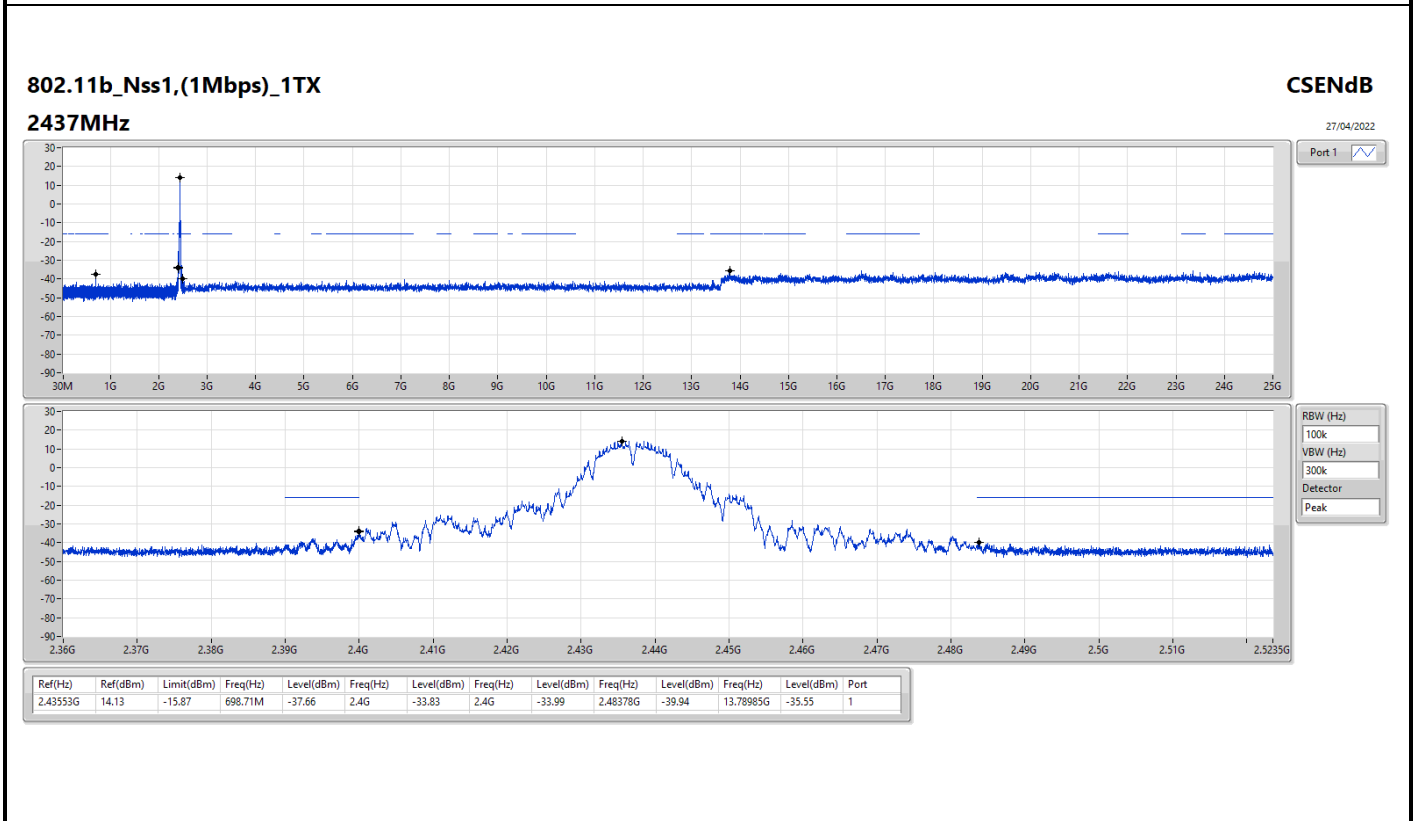
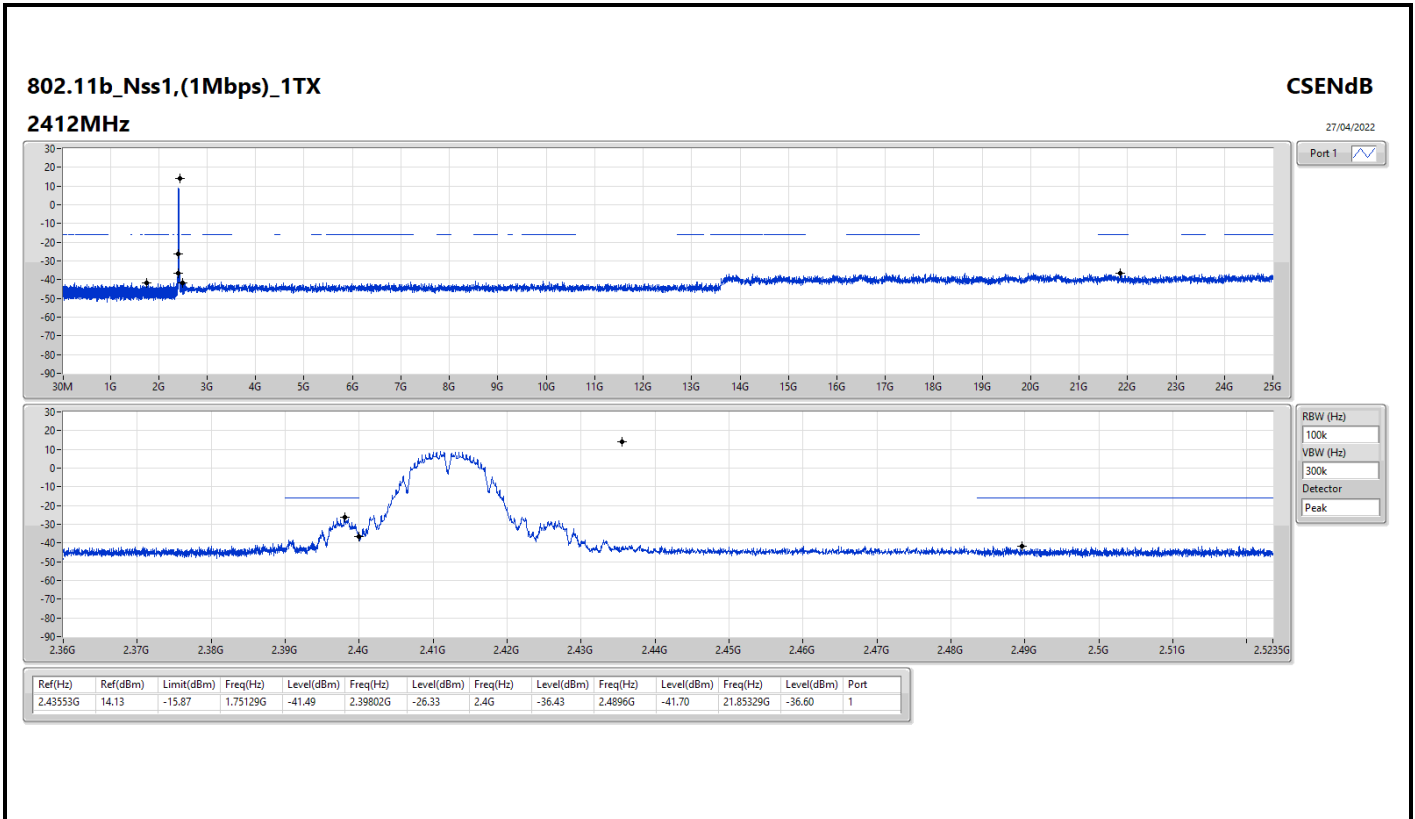


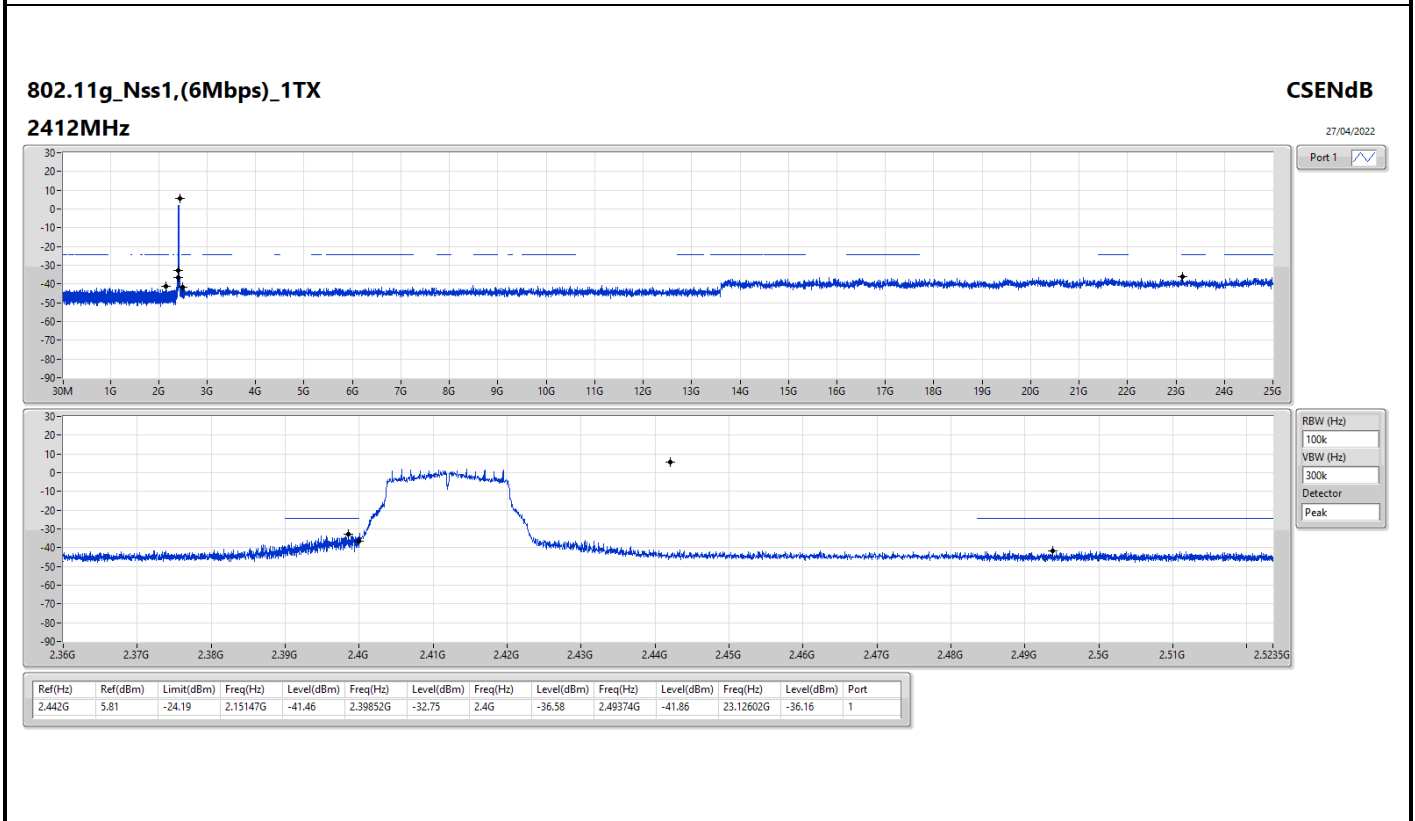
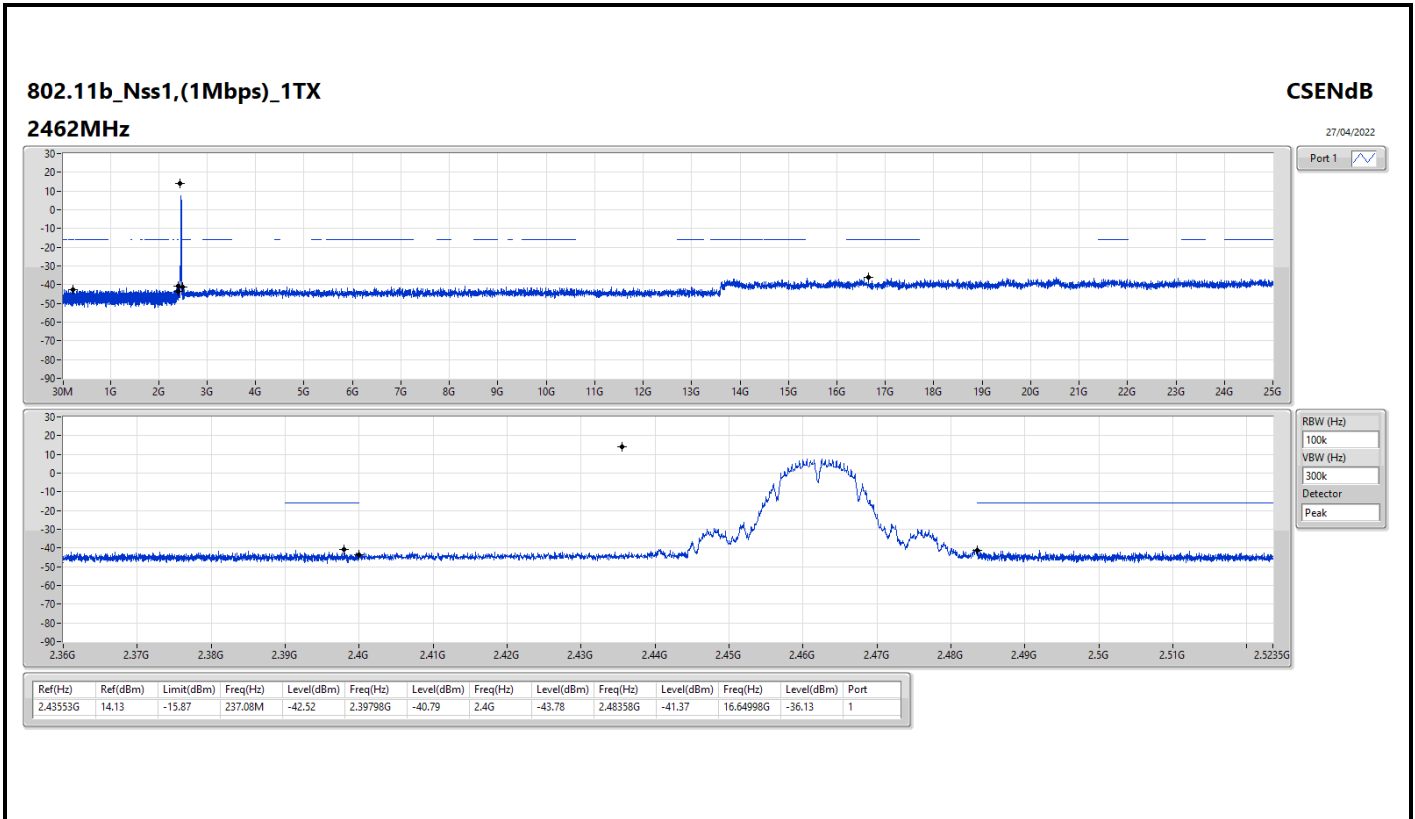
Summary

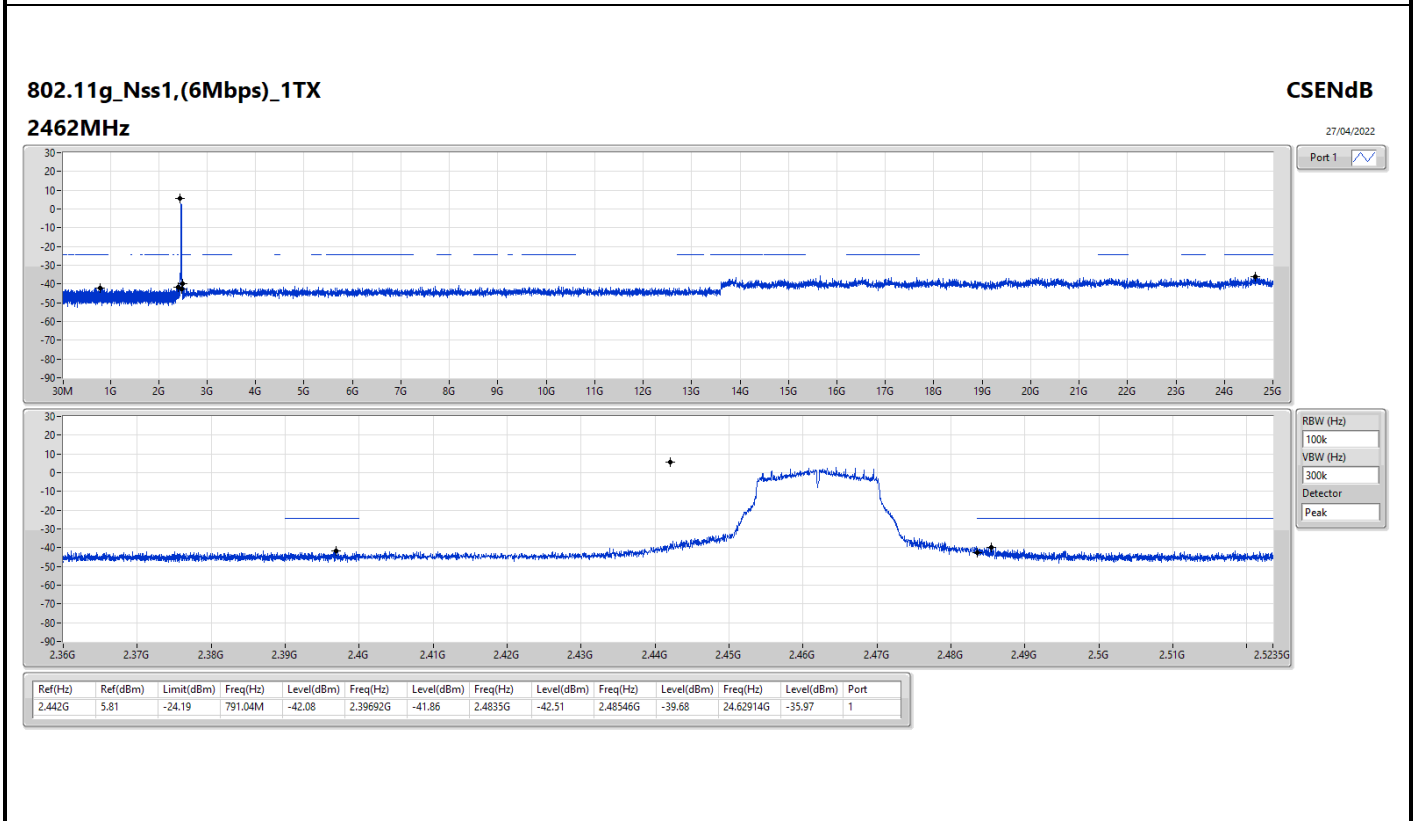
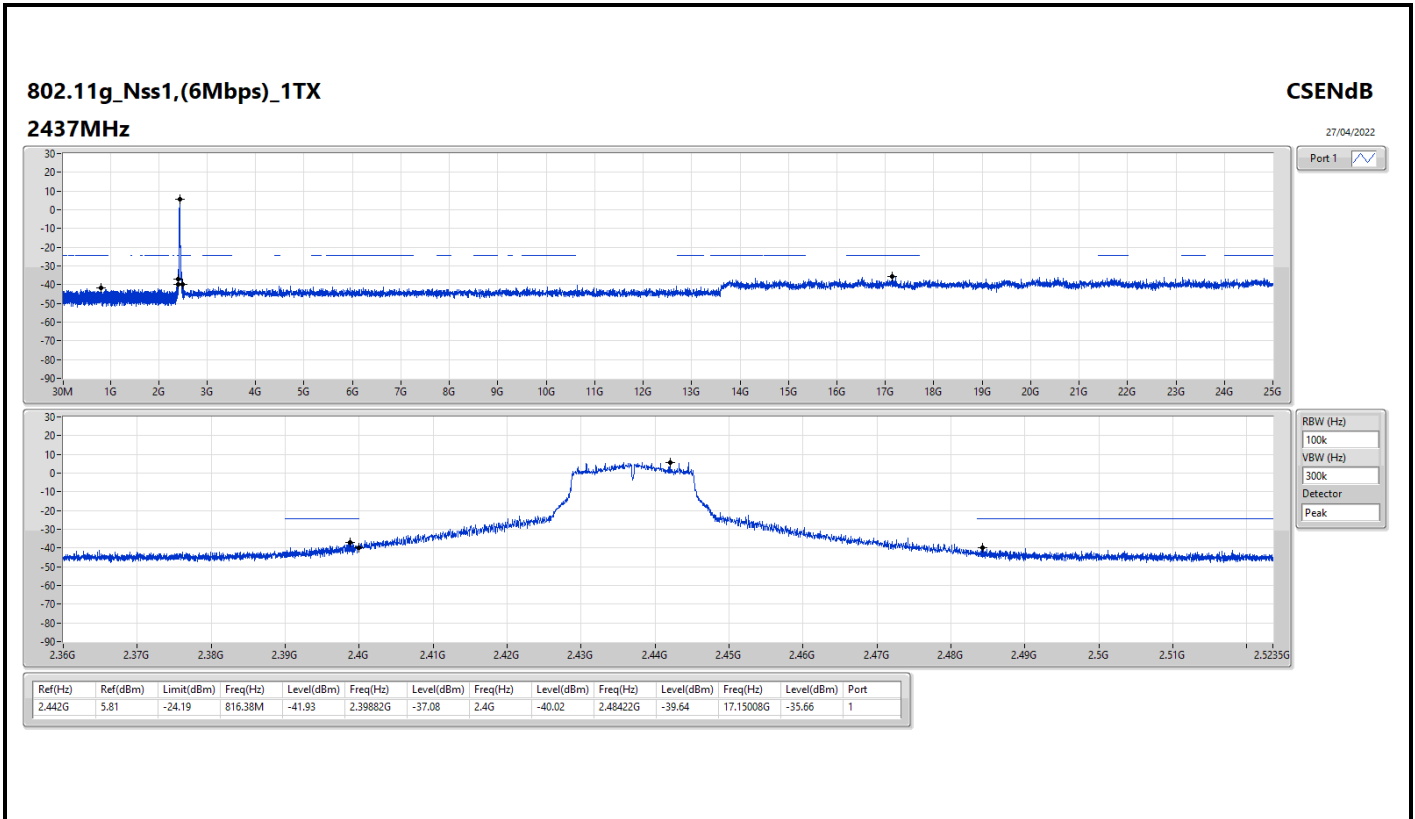
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	Pass	2.43553G	14.13	-15.87	1.75129G	-41.49	2.39802G	-26.33	2.4G	-36.43	2.4896G	-41.7	21.85329G	-36.6	1
802.11g_Nss1,(6Mbps)_1TX	Pass	2.442G	5.81	-24.19	2.15147G	-41.46	2.39852G	-32.75	2.4G	-36.58	2.49374G	-41.86	23.12602G	-36.16	1
802.11n HT20_Nss1,(MCS0)_1TX	Pass	2.442G	7.07	-22.93	1.90419G	-42.08	2.39824G	-33.71	2.4G	-37.75	2.49194G	-41.22	24.705G	-35.87	1
802.11n HT40_Nss1,(MCS0)_1TX	Pass	2.44075G	1.48	-28.52	515.48M	-52.57	2.39948G	-30.11	2.4G	-40.33	2.48386G	-43.14	24.87099G	-42.75	1

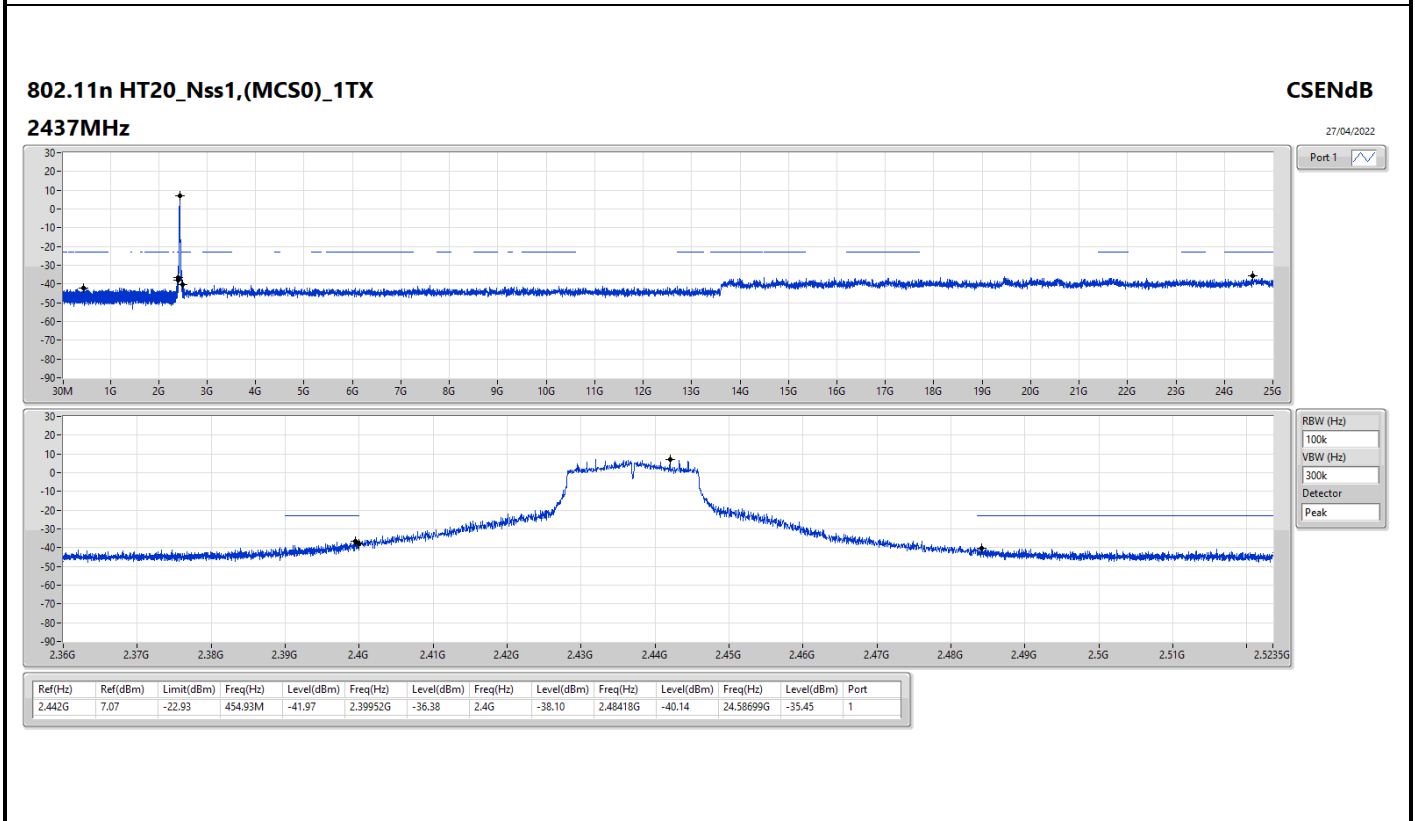
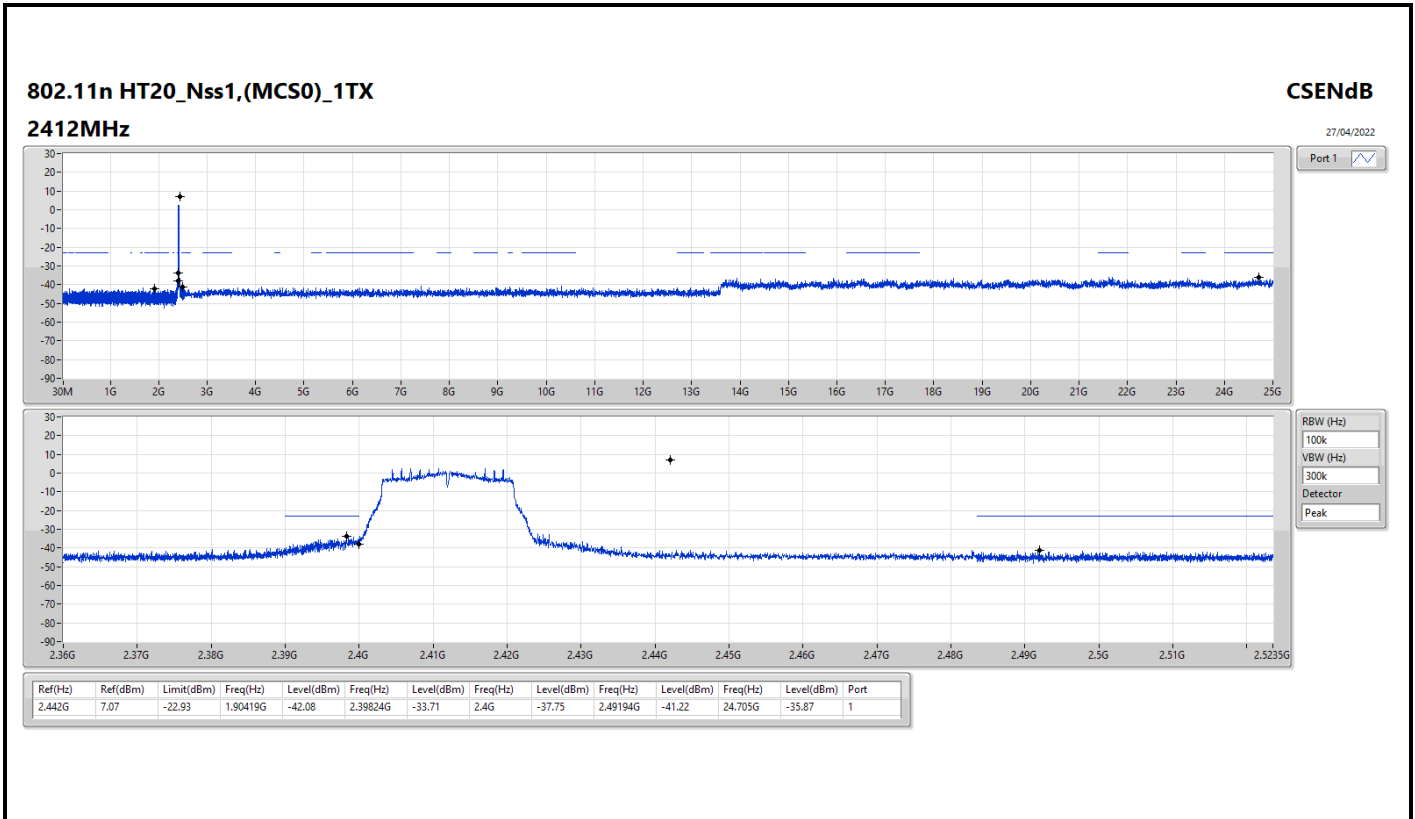
Result

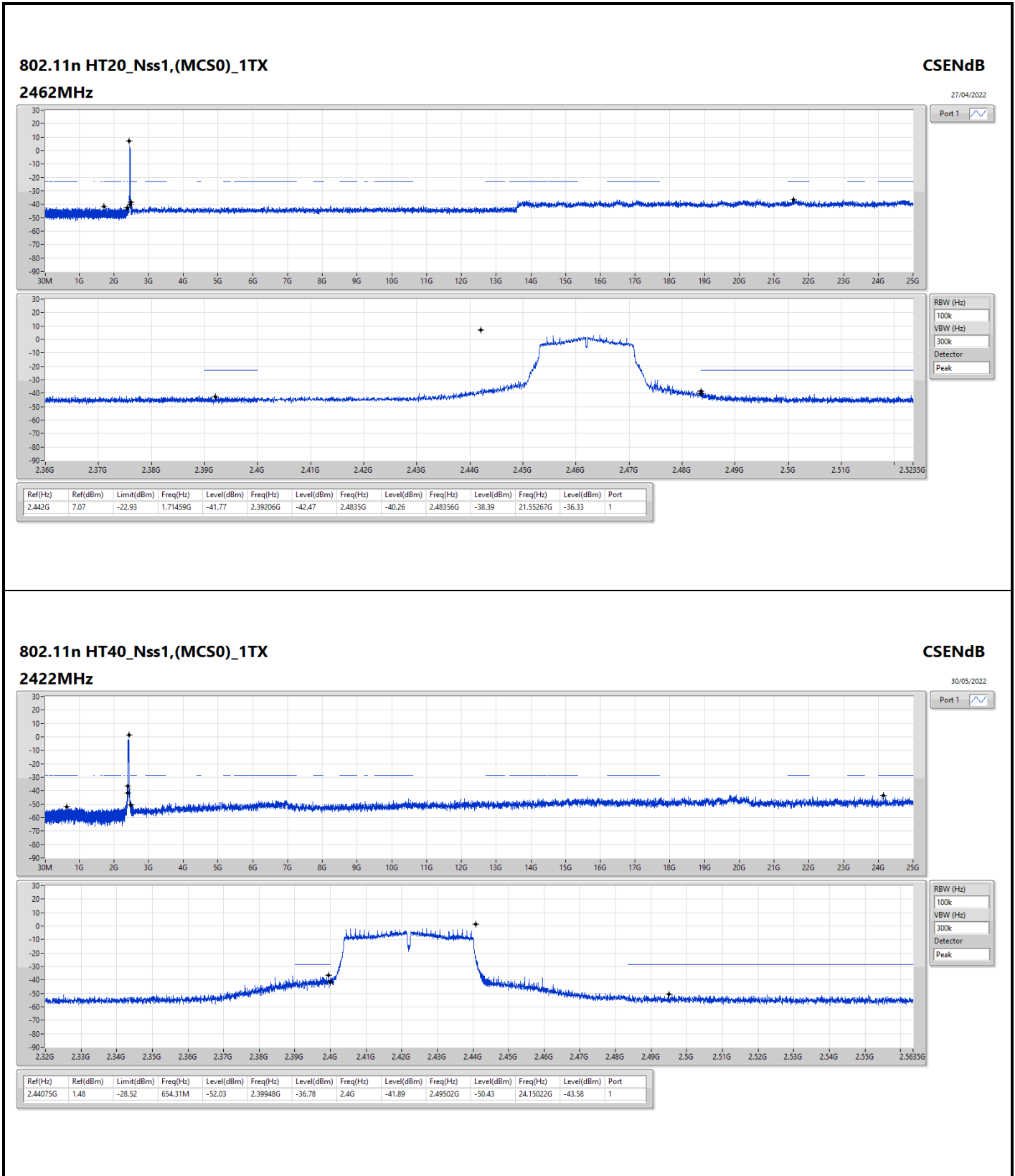
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43553G	14.13	-15.87	1.75129G	-41.49	2.39802G	-26.33	2.4G	-36.43	2.4896G	-41.7	21.85329G	-36.6	1
2437MHz	Pass	2.43553G	14.13	-15.87	698.71M	-37.66	2.4G	-33.83	2.4G	-33.99	2.48378G	-39.94	13.78985G	-35.55	1
2462MHz	Pass	2.43553G	14.13	-15.87	237.08M	-42.52	2.39798G	-40.79	2.4G	-43.78	2.48358G	-41.37	16.64998G	-36.13	1
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.442G	5.81	-24.19	2.15147G	-41.46	2.39852G	-32.75	2.4G	-36.58	2.49374G	-41.86	23.12602G	-36.16	1
2437MHz	Pass	2.442G	5.81	-24.19	816.38M	-41.93	2.39882G	-37.08	2.4G	-40.02	2.48422G	-39.64	17.15008G	-35.66	1
2462MHz	Pass	2.442G	5.81	-24.19	791.04M	-42.08	2.39692G	-41.86	2.4835G	-42.51	2.48546G	-39.68	24.62914G	-35.97	1
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.442G	7.07	-22.93	1.90419G	-42.08	2.39824G	-33.71	2.4G	-37.75	2.49194G	-41.22	24.705G	-35.87	1
2437MHz	Pass	2.442G	7.07	-22.93	454.93M	-41.97	2.39952G	-36.38	2.4G	-38.1	2.48418G	-40.14	24.58699G	-35.45	1
2462MHz	Pass	2.442G	7.07	-22.93	1.71459G	-41.77	2.39206G	-42.47	2.4835G	-40.26	2.48356G	-38.39	21.55267G	-36.33	1
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.44075G	1.48	-28.52	654.31M	-52.03	2.39948G	-36.78	2.4G	-41.89	2.49502G	-50.43	24.15022G	-43.58	1
2437MHz	Pass	2.44075G	1.48	-28.52	515.48M	-52.57	2.39948G	-30.11	2.4G	-40.33	2.48386G	-43.14	24.87099G	-42.75	1
2452MHz	Pass	2.44075G	1.48	-28.52	626.55M	-51.27	2.39916G	-47.59	2.4835G	-44.04	2.48946G	-35.54	24.83453G	-44.38	1

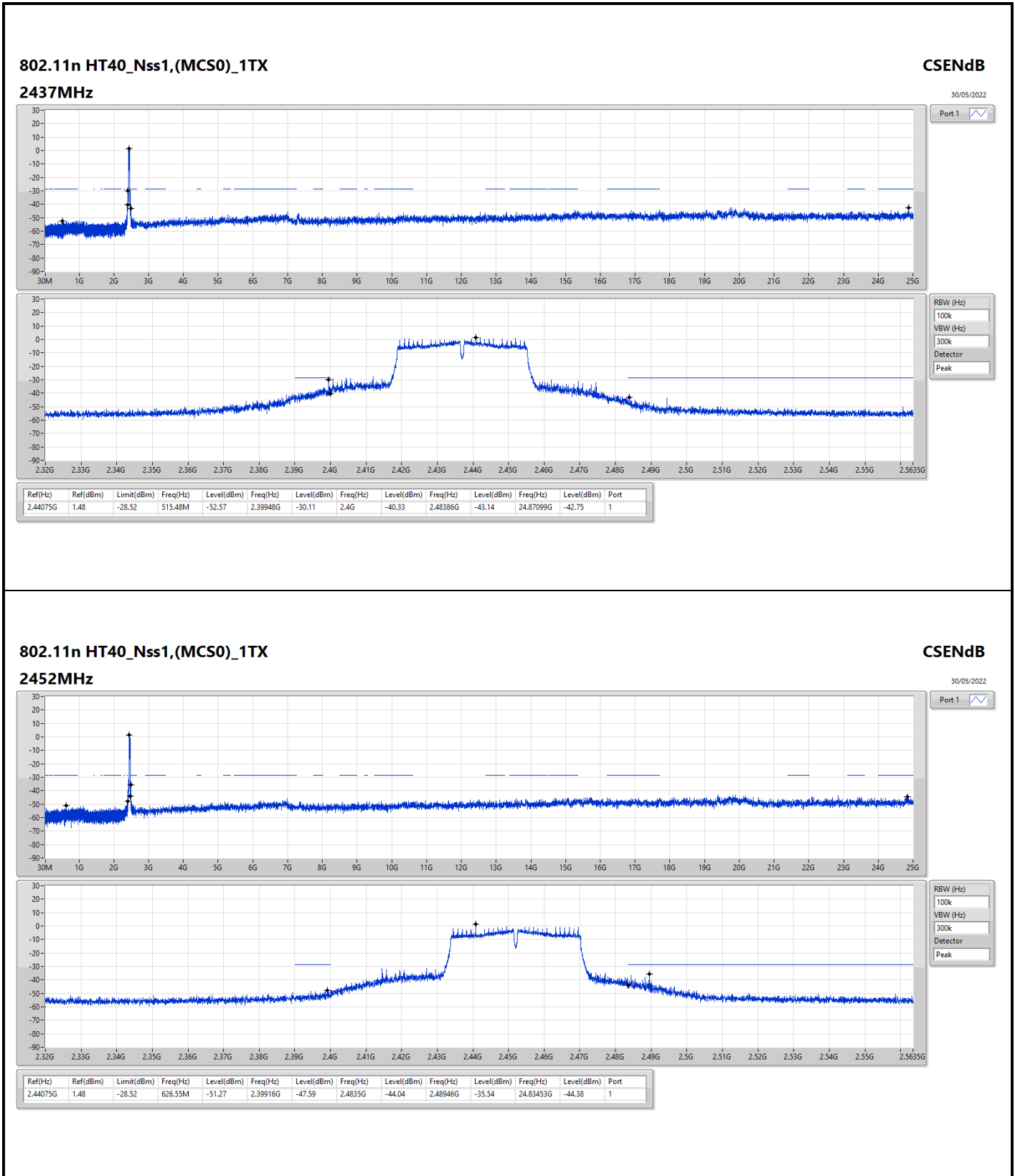










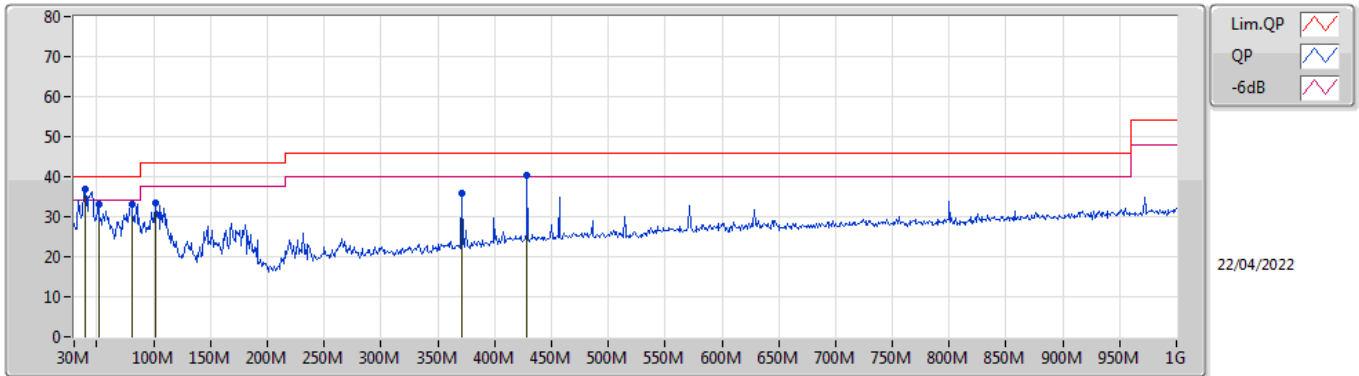




Summary

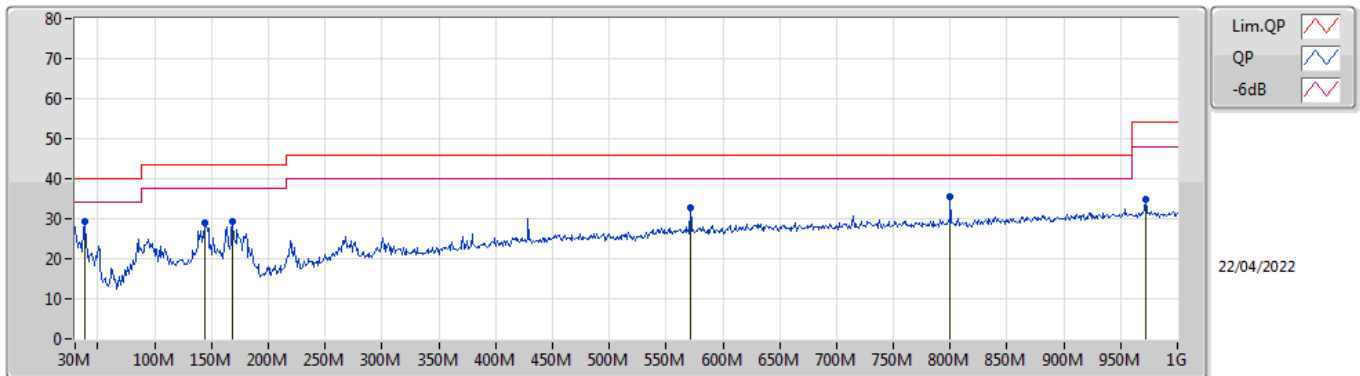
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 4	Pass	QP	39.7M	36.92	40.00	-3.08	Vertical

Mode 4



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
QP	39.7M	36.92	40.00	-3.08	-11.98	3	Vertical	202	1.00	"Worst"	48.90	18.78	0.90	31.66
PK	51.34M	33.09	40.00	-6.91	-17.17	3	Vertical	289	1.00	-	50.26	13.50	1.10	31.77
PK	80.44M	33.00	40.00	-7.00	-17.72	3	Vertical	254	1.50	-	50.72	12.80	1.40	31.92
PK	101.78M	33.50	43.50	-10.00	-13.47	3	Vertical	356	1.00	-	46.97	16.90	1.51	31.88
PK	371.44M	35.89	46.00	-10.11	-8.28	3	Vertical	259	2.00	-	44.17	20.77	3.09	32.14
PK	428.67M	40.25	46.00	-5.75	-6.61	3	Vertical	231	1.50	-	46.86	22.26	3.37	32.24

Mode 4



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	38.73M	29.36	40.00	-10.64	-11.39	3	Horizontal	280	1.25	"Worst"	40.75	19.35	0.90	31.64
PK	144.46M	29.05	43.50	-14.45	-13.59	3	Horizontal	46	2.00	-	42.64	16.53	1.84	31.96
PK	168.71M	29.27	43.50	-14.23	-14.40	3	Horizontal	173	1.50	-	43.67	15.52	2.04	31.96
PK	571.26M	32.81	46.00	-13.19	-4.30	3	Horizontal	181	1.25	-	37.11	24.29	3.89	32.48
PK	800.18M	35.36	46.00	-10.64	-2.18	3	Horizontal	35	1.25	-	37.54	25.61	4.90	32.69
PK	971.87M	34.72	54.00	-19.28	-0.17	3	Horizontal	10	1.00	-	34.89	26.80	5.60	32.57

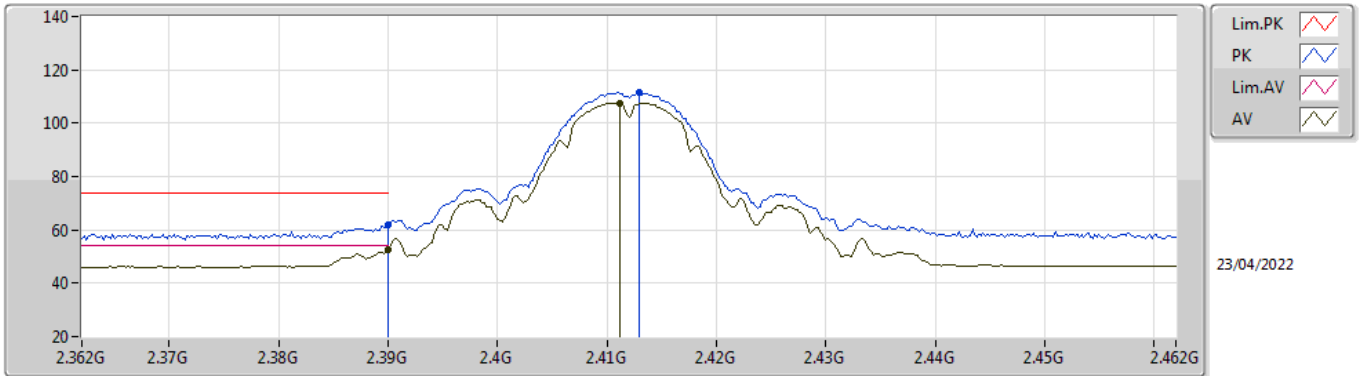


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11n HT40_Nss1,(MCS0)_1TX	Pass	AV	2.4835G	53.71	54.00	-0.29	3	Vertical	2	1.00	-

802.11b_Nss1,(1Mbps)_1TX

2412MHz_TX

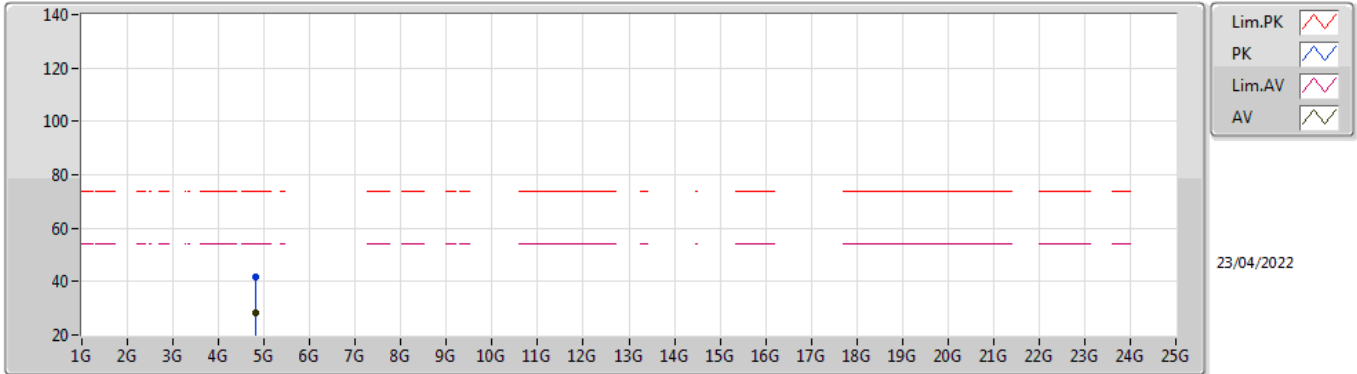


EUT_Z_1TX
Setting 74
02-B-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	61.78	74.00	-12.22	31.37	3	Vertical	60	2.68	-	27.62	2.79	-
AV	2.39G	52.83	54.00	-1.17	22.42	3	Vertical	60	2.68	-	27.62	2.79	-
PK	2.413G	111.49	Inf	-Inf	81.11	3	Vertical	60	2.68	-	27.57	2.81	-
AV	2.4112G	107.63	Inf	-Inf	77.24	3	Vertical	60	2.68	-	27.58	2.81	-

802.11b_Nss1,(1Mbps)_1TX

2412MHz_TX

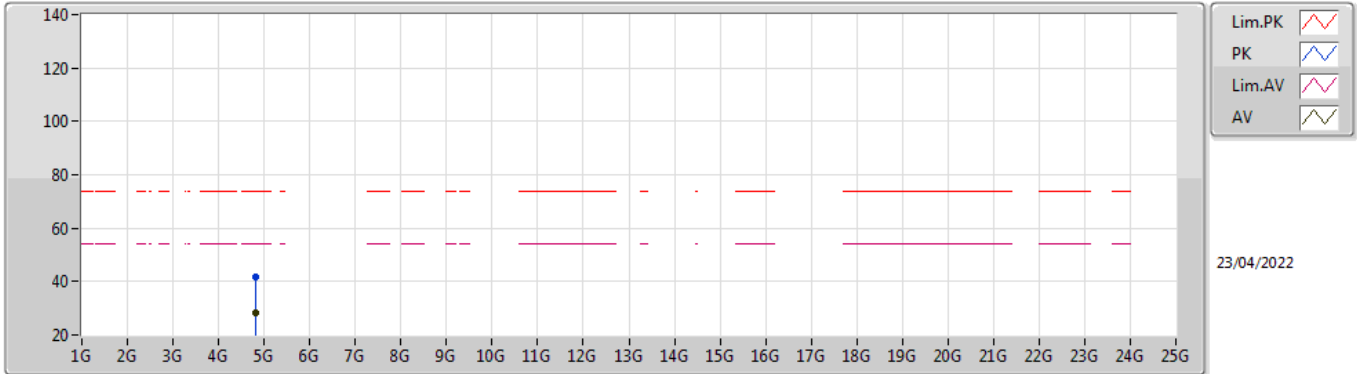


EUT Y_1TX
Setting 74
02-B-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82241G	41.95	74.00	-32.05	37.71	3	Vertical	32	1.23	-	31.36	5.10	32.22
AV	4.82649G	28.10	54.00	-25.90	23.87	3	Vertical	32	1.23	-	31.35	5.10	32.22

802.11b_Nss1,(1Mbps)_1TX

2412MHz_TX

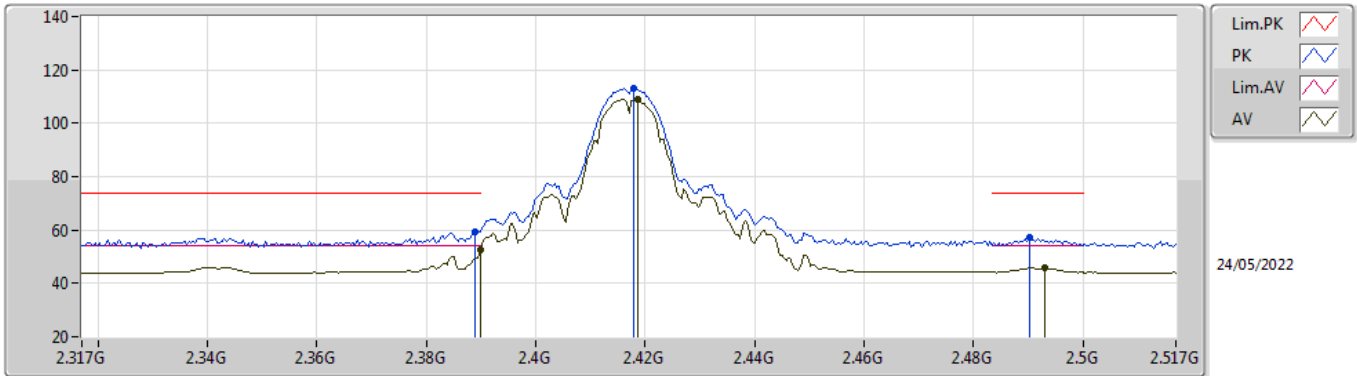


EUT Y_1TX
Setting 74
02-B-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82296G	41.94	74.00	-32.06	37.71	3	Horizontal	96	1.48	-	31.35	5.10	32.22
AV	4.82276G	28.15	54.00	-25.85	23.92	3	Horizontal	96	1.48	-	31.35	5.10	32.22

802.11b_Nss1,(1Mbps)_1TX

2417MHz_TX

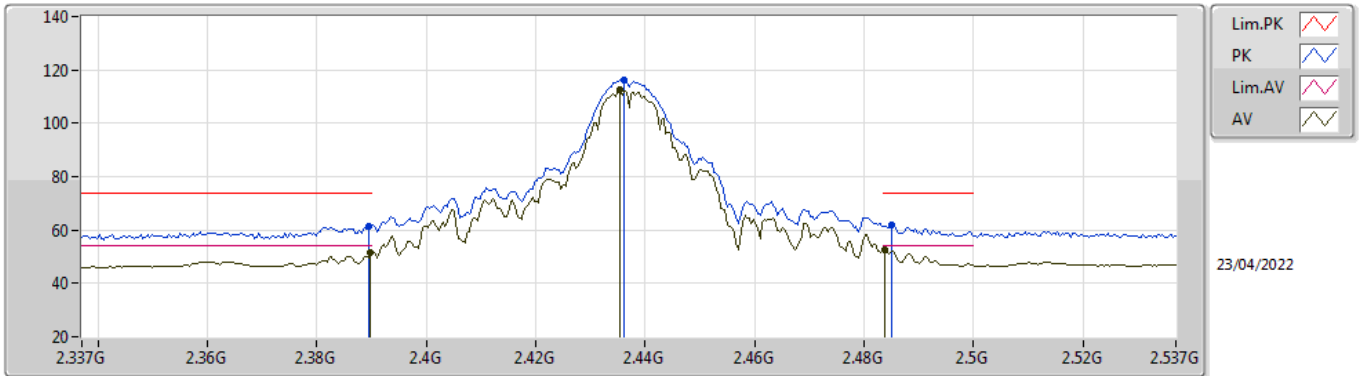


EUT_Z_1TX
Setting 84
02-D-C-6

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.389G	59.55	74.00	-14.45	28.38	3	Vertical	71	2.36	-	28.38	2.79	-
AV	2.3898G	52.66	54.00	-1.34	21.49	3	Vertical	71	2.36	-	28.38	2.79	-
PK	2.4178G	112.98	Inf	-Inf	81.76	3	Vertical	71	2.36	-	28.40	2.82	-
AV	2.4186G	108.82	Inf	-Inf	77.60	3	Vertical	71	2.36	-	28.40	2.82	-
PK	2.4902G	57.07	74.00	-16.93	25.62	3	Vertical	71	2.36	-	28.56	2.89	-
AV	2.493G	45.76	54.00	-8.24	14.30	3	Vertical	71	2.36	-	28.57	2.89	-

802.11b_Nss1,(1Mbps)_1TX

2437MHz_TX

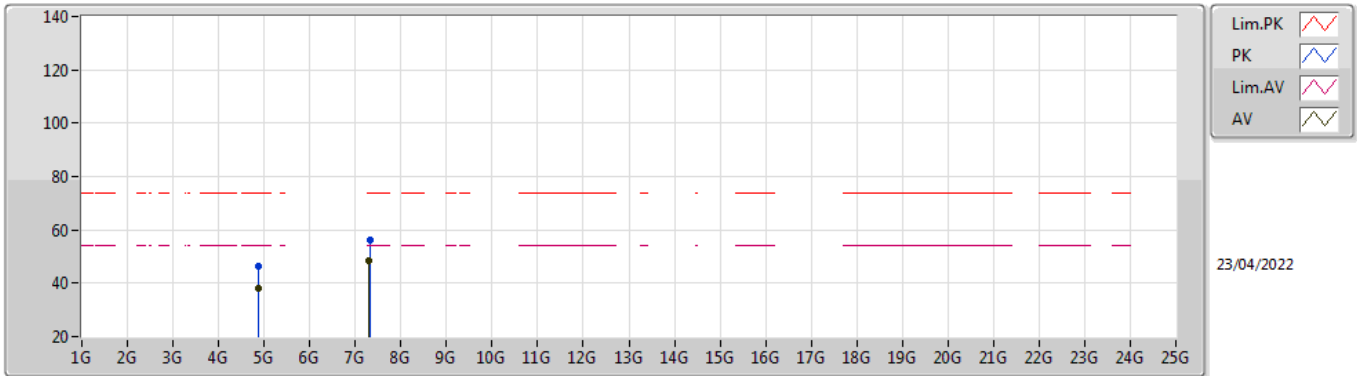


EUT_Z_1TX
Setting 94
02-B-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3894G	61.28	74.00	-12.72	30.87	3	Vertical	93	2.52	-	27.62	2.79	-
AV	2.3898G	51.65	54.00	-2.35	21.24	3	Vertical	93	2.52	-	27.62	2.79	-
PK	2.4362G	116.12	Inf	-Inf	85.75	3	Vertical	93	2.52	-	27.53	2.84	-
AV	2.4354G	112.40	Inf	-Inf	82.03	3	Vertical	93	2.52	-	27.53	2.84	-
PK	2.485G	61.85	74.00	-12.15	31.46	3	Vertical	93	2.52	-	27.50	2.89	-
AV	2.4838G	52.81	54.00	-1.19	22.43	3	Vertical	93	2.52	-	27.50	2.88	-

802.11b_Nss1,(1Mbps)_1TX

2437MHz_TX

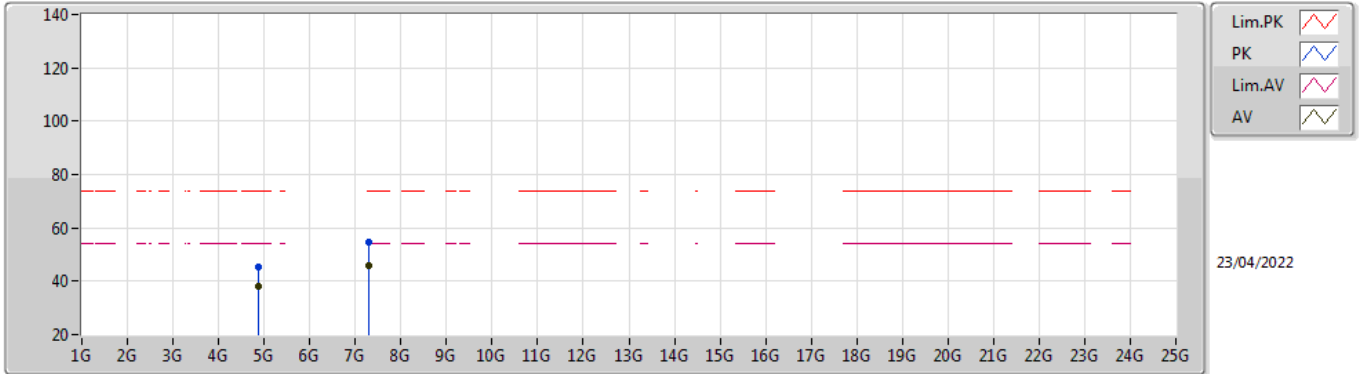


EUT Y_1TX
Setting 94
02-B-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87386G	46.31	74.00	-27.69	42.12	3	Vertical	252	1.98	-	31.30	5.10	32.21
AV	4.87398G	38.28	54.00	-15.72	34.09	3	Vertical	252	1.98	-	31.30	5.10	32.21
PK	7.31196G	56.14	74.00	-17.86	46.35	3	Vertical	214	1.96	-	36.45	6.16	32.82
AV	7.30973G	48.59	54.00	-5.41	38.82	3	Vertical	214	1.96	-	36.44	6.15	32.82

802.11b_Nss1,(1Mbps)_1TX

2437MHz_TX

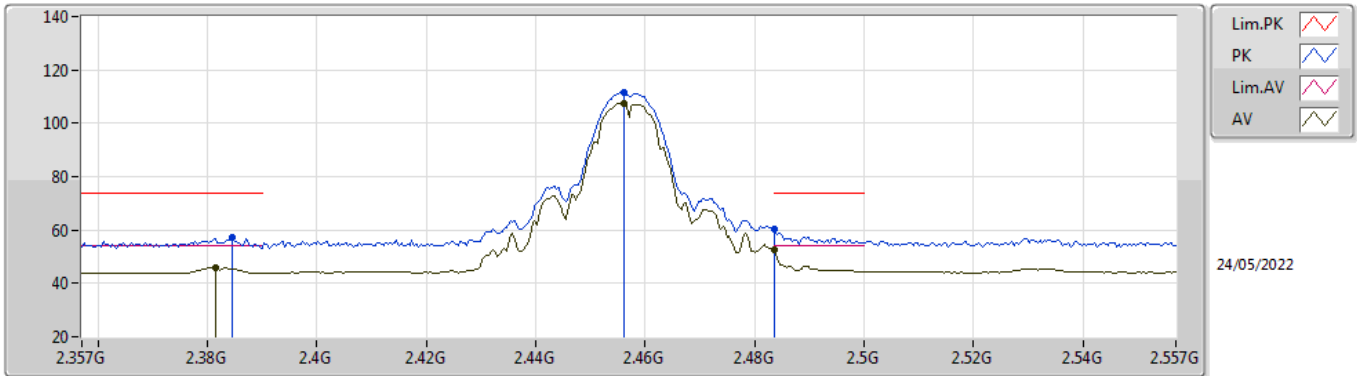


EUT Y_1TX
Setting 94
02-B-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87392G	45.24	74.00	-28.76	41.05	3	Horizontal	281	2.24	-	31.30	5.10	32.21
AV	4.87399G	38.17	54.00	-15.83	33.98	3	Horizontal	281	2.24	-	31.30	5.10	32.21
PK	7.30952G	54.54	74.00	-19.46	44.77	3	Horizontal	252	1.98	-	36.44	6.15	32.82
AV	7.30976G	46.01	54.00	-7.99	36.24	3	Horizontal	252	1.98	-	36.44	6.15	32.82

802.11b_Nss1,(1Mbps)_1TX

2457MHz_TX

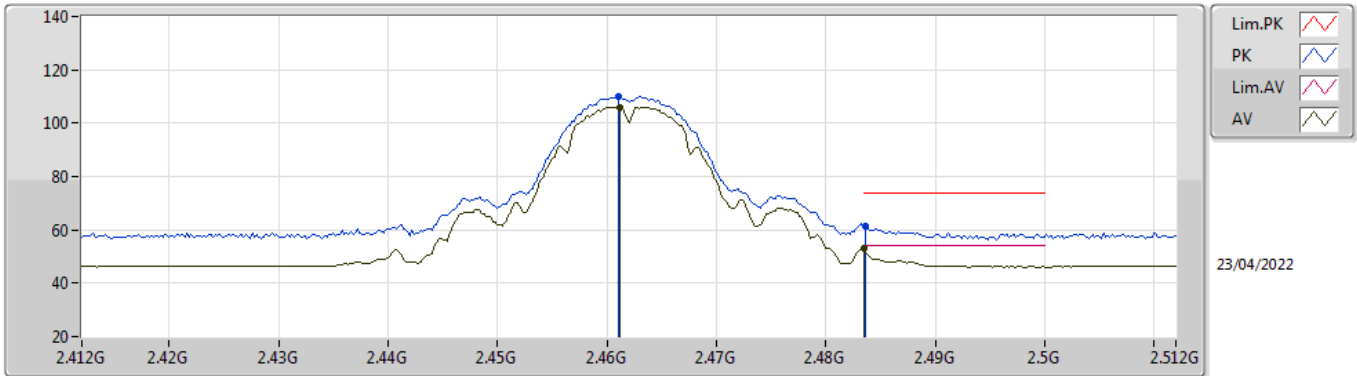


EUT_Z_1TX
Setting 78
02-D-C-6

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3846G	57.44	74.00	-16.56	26.28	3	Vertical	77	1.80	-	28.37	2.79	-
AV	2.3814G	45.79	54.00	-8.21	14.64	3	Vertical	77	1.80	-	28.36	2.79	-
PK	2.4562G	111.53	Inf	-Inf	80.25	3	Vertical	77	1.80	-	28.42	2.86	-
AV	2.4562G	107.53	Inf	-Inf	76.25	3	Vertical	77	1.80	-	28.42	2.86	-
PK	2.4835G	60.42	74.00	-13.58	29.01	3	Vertical	77	1.80	-	28.53	2.88	-
AV	2.4835G	52.71	54.00	-1.29	21.30	3	Vertical	77	1.80	-	28.53	2.88	-

802.11b_Nss1,(1Mbps)_1TX

2462MHz_TX

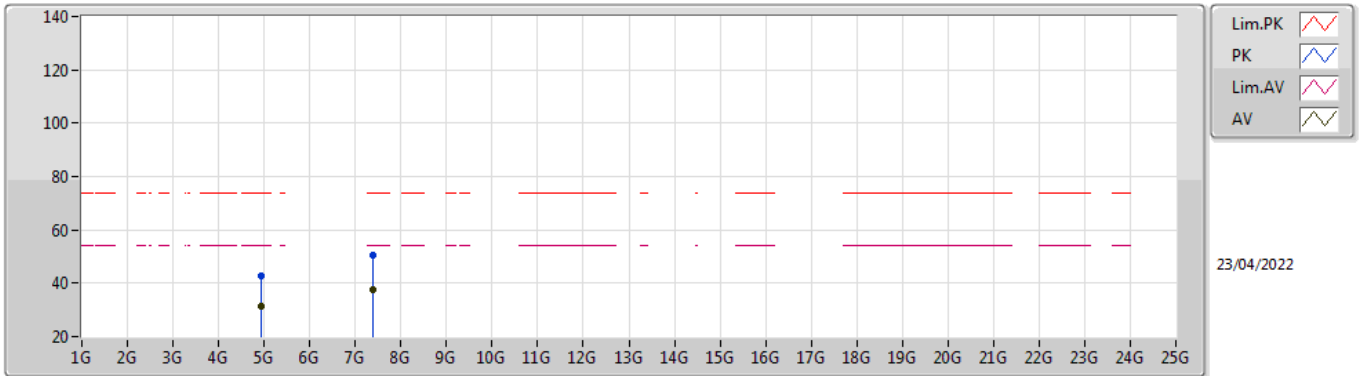


EUT_Z_1TX
Setting 68
02-B-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.461G	109.89	Inf	-Inf	79.53	3	Vertical	65	2.28	-	27.50	2.86	-
AV	2.4612G	106.06	Inf	-Inf	75.70	3	Vertical	65	2.28	-	27.50	2.86	-
PK	2.4836G	61.39	74.00	-12.61	31.01	3	Vertical	65	2.28	-	27.50	2.88	-
AV	2.4835G	52.88	54.00	-1.12	22.50	3	Vertical	65	2.28	-	27.50	2.88	-

802.11b_Nss1,(1Mbps)_1TX

2462MHz_TX

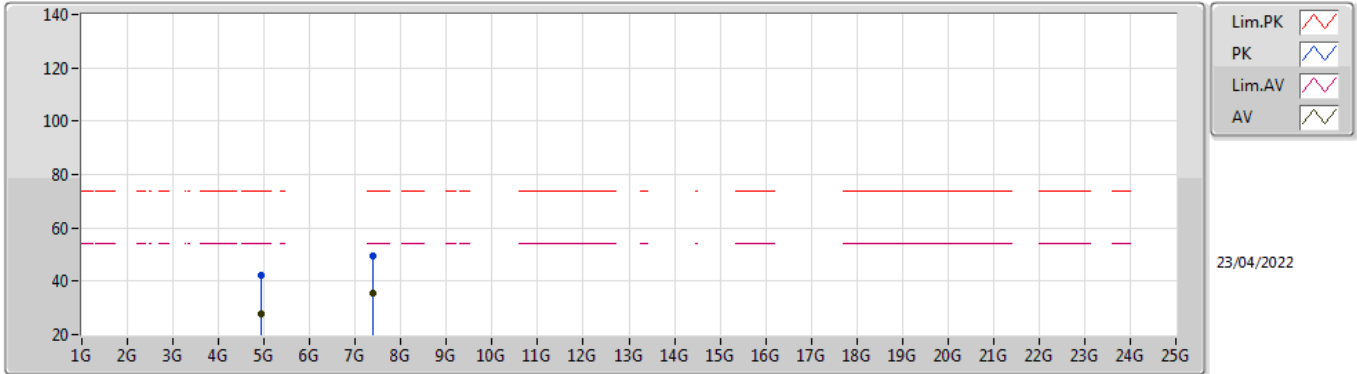


EUT Y_1TX
Setting 68
02-B-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92421G	42.54	74.00	-31.46	38.23	3	Vertical	1	1.77	-	31.40	5.10	32.19
AV	4.92399G	31.35	54.00	-22.65	27.04	3	Vertical	1	1.77	-	31.40	5.10	32.19
PK	7.38458G	50.40	74.00	-23.60	40.70	3	Vertical	304	1.40	-	36.46	6.19	32.95
AV	7.38495G	37.82	54.00	-16.18	28.12	3	Vertical	304	1.40	-	36.46	6.19	32.95

802.11b_Nss1,(1Mbps)_1TX

2462MHz_TX

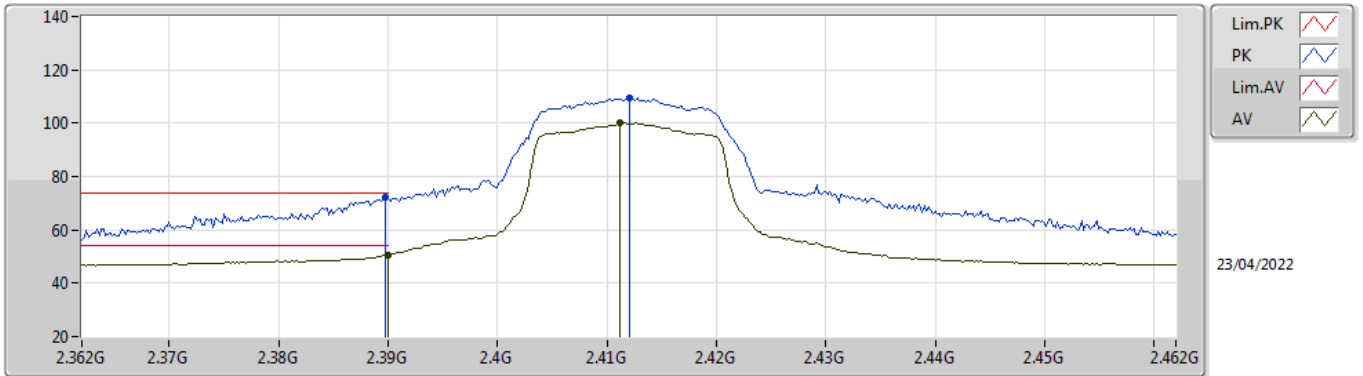


EUT Y_1TX
Setting 68
02-B-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92382G	42.32	74.00	-31.68	38.01	3	Horizontal	6	2.64	-	31.40	5.10	32.19
AV	4.92556G	27.95	54.00	-26.05	23.64	3	Horizontal	6	2.64	-	31.40	5.10	32.19
PK	7.38506G	49.68	74.00	-24.32	39.98	3	Horizontal	30	2.92	-	36.46	6.19	32.95
AV	7.38379G	35.63	54.00	-18.37	25.93	3	Horizontal	30	2.92	-	36.46	6.19	32.95

802.11g_Nss1,(6Mbps)_1TX

2412MHz_TX

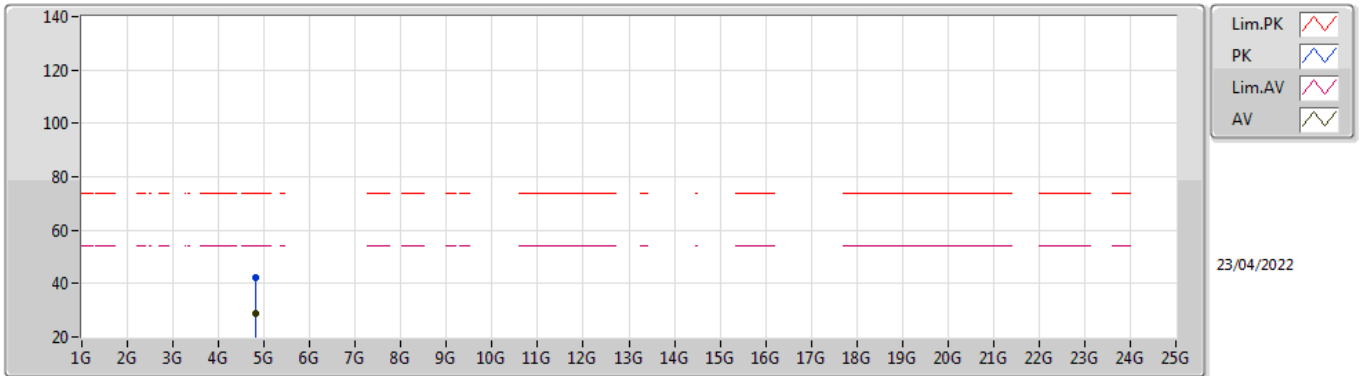


EUT_Z_1TX
Setting 50
02-B-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	72.05	74.00	-1.95	41.64	3	Vertical	105.6	2.30	-	27.62	2.79	-
AV	2.39G	50.58	54.00	-3.42	20.17	3	Vertical	105.6	2.30	-	27.62	2.79	-
PK	2.412G	109.66	Inf	-Inf	79.27	3	Vertical	105.6	2.30	-	27.58	2.81	-
AV	2.4112G	100.08	Inf	-Inf	69.69	3	Vertical	105.6	2.30	-	27.58	2.81	-

802.11g_Nss1,(6Mbps)_1TX

2412MHz_TX

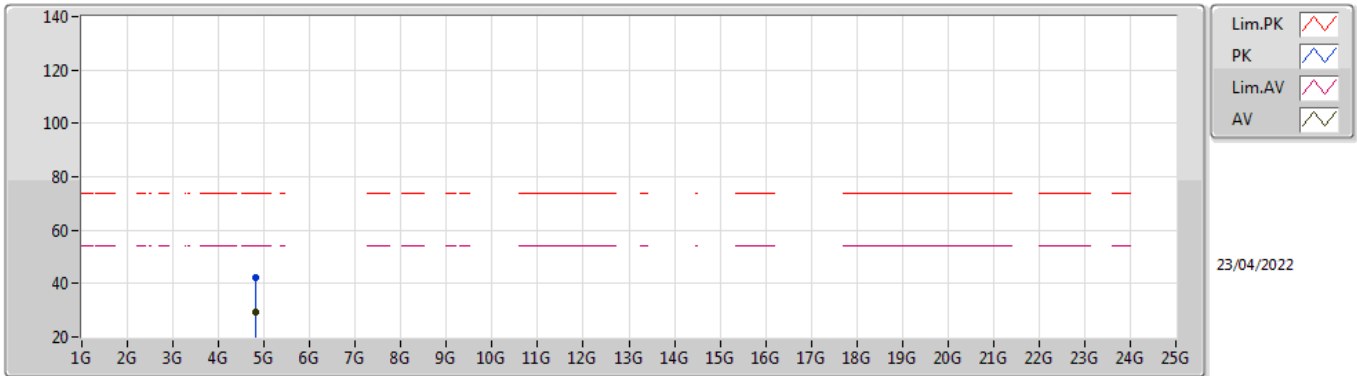


EUT Y_1TX
Setting 50
02-B-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8236G	42.13	74.00	-31.87	37.90	3	Vertical	253	2.89	-	31.35	5.10	32.22
AV	4.82379G	28.98	54.00	-25.02	24.75	3	Vertical	253	2.89	-	31.35	5.10	32.22

802.11g_Nss1,(6Mbps)_1TX

2412MHz_TX

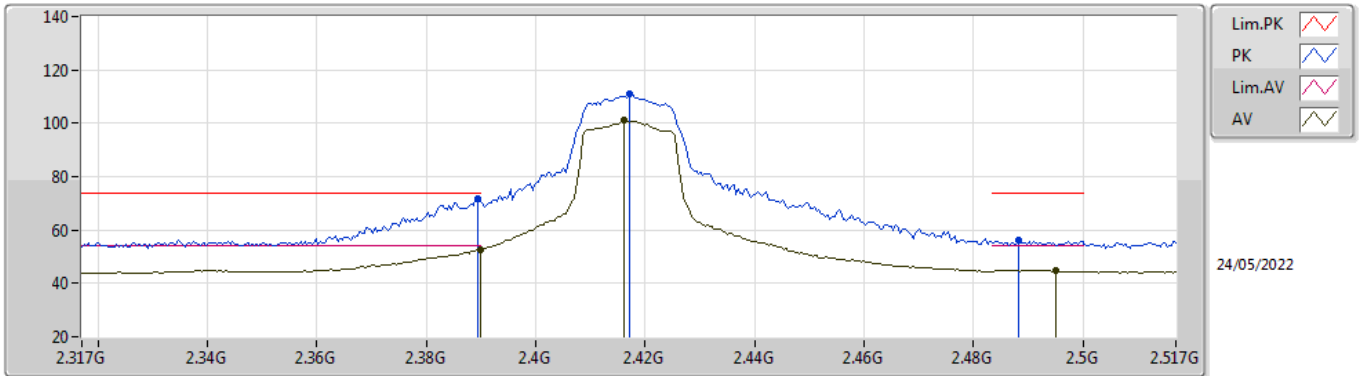


EUT Y_1TX
Setting 50
02-B-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82353G	42.46	74.00	-31.54	38.23	3	Horizontal	153	2.94	-	31.35	5.10	32.22
AV	4.82447G	29.16	54.00	-24.84	24.93	3	Horizontal	153	2.94	-	31.35	5.10	32.22

802.11g_Nss1,(6Mbps)_1TX

2417MHz_TX

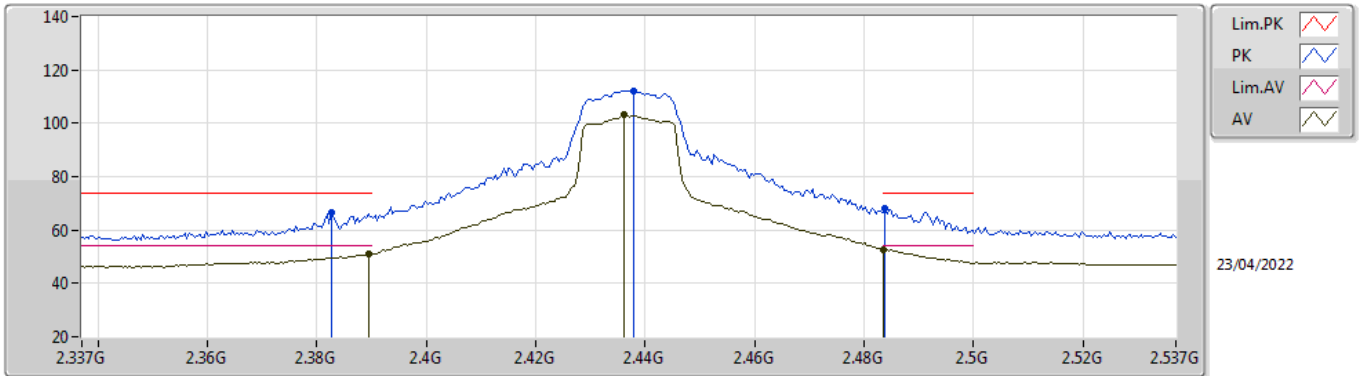


EUT_Z_1TX
Setting 59
02-D-C-6

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3894G	71.77	74.00	-2.23	40.60	3	Vertical	75	2.36	-	28.38	2.79	-
AV	2.3898G	52.79	54.00	-1.21	21.62	3	Vertical	75	2.36	-	28.38	2.79	-
PK	2.417G	110.81	Inf	-Inf	79.59	3	Vertical	75	2.36	-	28.40	2.82	-
AV	2.4162G	101.15	Inf	-Inf	69.93	3	Vertical	75	2.36	-	28.40	2.82	-
PK	2.4882G	55.95	74.00	-18.05	24.51	3	Vertical	75	2.36	-	28.55	2.89	-
AV	2.495G	44.90	54.00	-9.10	13.42	3	Vertical	75	2.36	-	28.58	2.90	-

802.11g_Nss1,(6Mbps)_1TX

2437MHz_TX

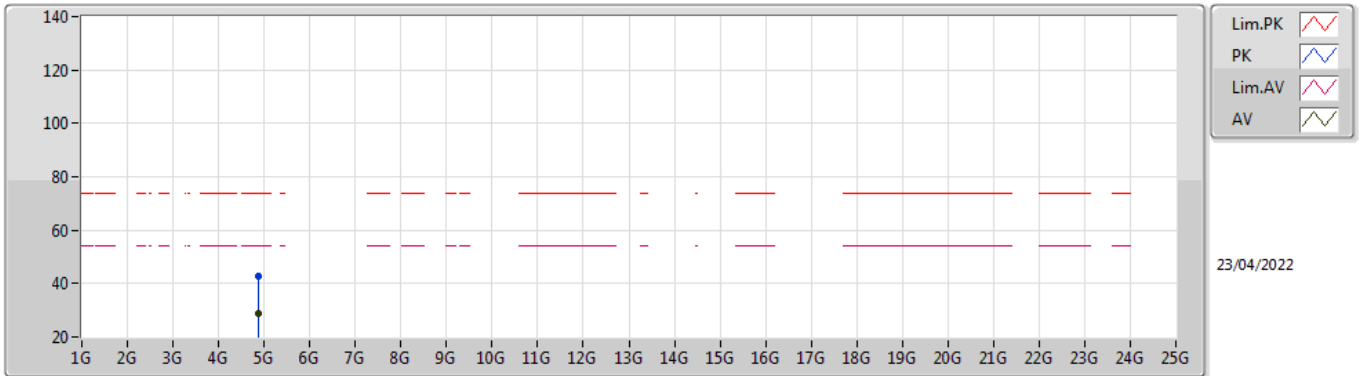


EUT_Z_1TX
Setting 70
02-B-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3826G	66.73	74.00	-7.27	36.31	3	Vertical	99	2.36	-	27.63	2.79	-
AV	2.3894G	50.94	54.00	-3.06	20.53	3	Vertical	99	2.36	-	27.62	2.79	-
PK	2.4378G	112.28	Inf	-Inf	81.92	3	Vertical	99	2.36	-	27.52	2.84	-
AV	2.4362G	103.06	Inf	-Inf	72.69	3	Vertical	99	2.36	-	27.53	2.84	-
PK	2.4838G	68.28	74.00	-5.72	37.90	3	Vertical	99	2.36	-	27.50	2.88	-
AV	2.4835G	52.61	54.00	-1.39	22.23	3	Vertical	99	2.36	-	27.50	2.88	-

802.11g_Nss1,(6Mbps)_1TX

2437MHz_TX

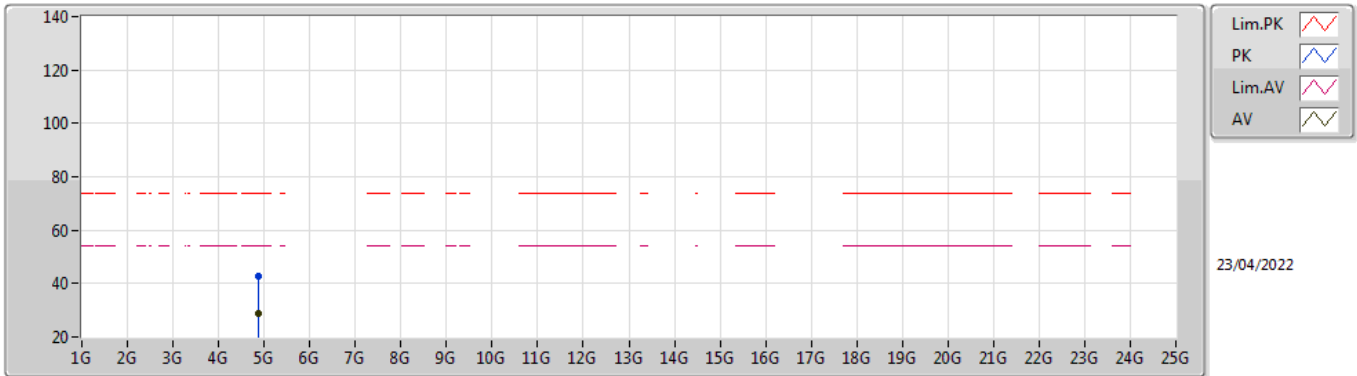


EUT Y_1TX
Setting 70
02-B-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87352G	42.67	74.00	-31.33	38.48	3	Vertical	78	2.00	-	31.30	5.10	32.21
AV	4.87366G	29.00	54.00	-25.00	24.81	3	Vertical	78	2.00	-	31.30	5.10	32.21

802.11g_Nss1,(6Mbps)_1TX

2437MHz_TX

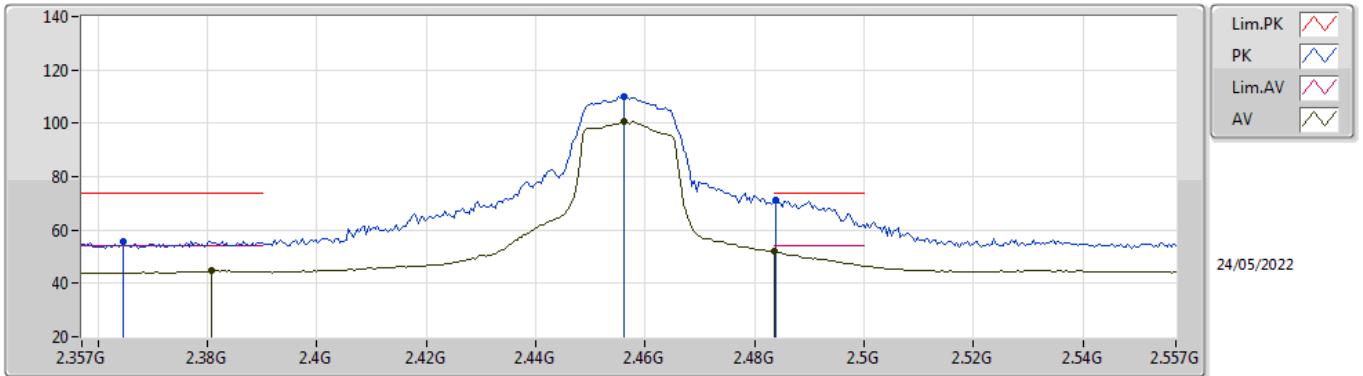


EUT Y_1TX
Setting 70
02-B-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87419G	42.54	74.00	-31.46	38.35	3	Horizontal	213	2.10	-	31.30	5.10	32.21
AV	4.87384G	28.77	54.00	-25.23	24.58	3	Horizontal	213	2.10	-	31.30	5.10	32.21

802.11g_Nss1,(6Mbps)_1TX

2457MHz_TX

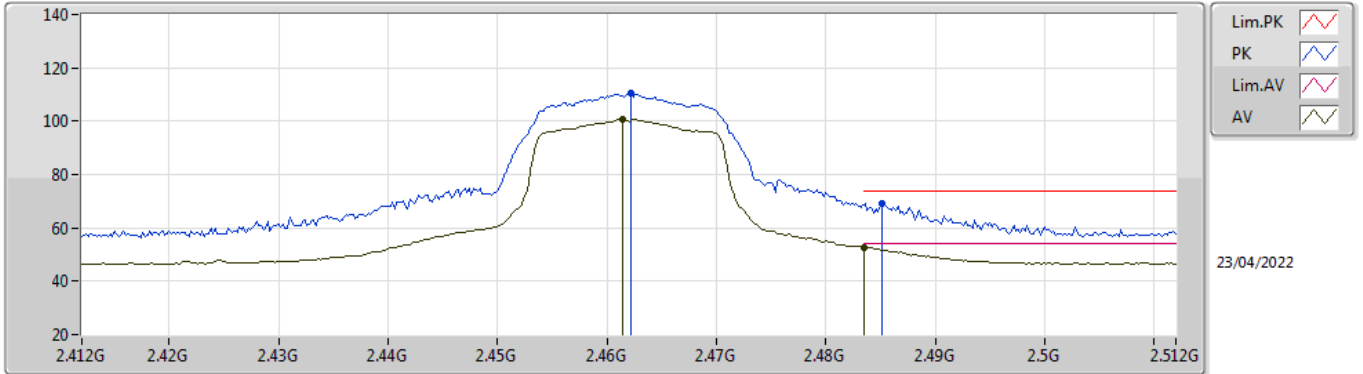


EUT_Z_1TX
Setting 58
02-D-C-6

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3646G	55.89	74.00	-18.11	24.78	3	Vertical	76	1.79	-	28.33	2.78	-
AV	2.3806G	44.63	54.00	-9.37	13.48	3	Vertical	76	1.79	-	28.36	2.79	-
PK	2.4562G	109.91	Inf	-Inf	78.63	3	Vertical	76	1.79	-	28.42	2.86	-
AV	2.4562G	100.85	Inf	-Inf	69.57	3	Vertical	76	1.79	-	28.42	2.86	-
PK	2.4838G	71.03	74.00	-2.97	39.61	3	Vertical	76	1.79	-	28.54	2.88	-
AV	2.4835G	52.07	54.00	-1.93	20.66	3	Vertical	76	1.79	-	28.53	2.88	-

802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX

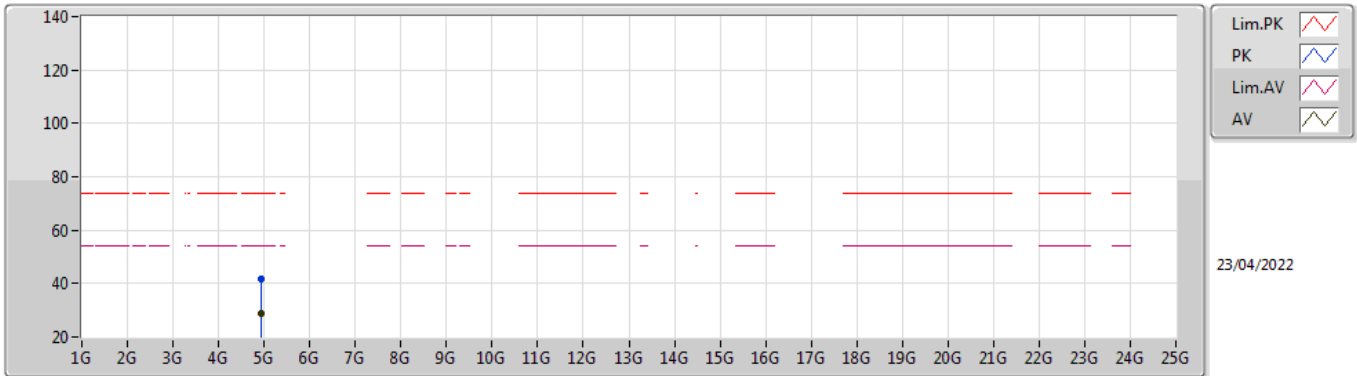


EUT_Z_1TX
Setting 54
02-B-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4622G	110.42	Inf	-Inf	80.06	3	Vertical	83.7	2.32	-	27.50	2.86	-
AV	2.4614G	100.74	Inf	-Inf	70.38	3	Vertical	83.7	2.32	-	27.50	2.86	-
PK	2.4852G	69.31	74.00	-4.69	38.92	3	Vertical	83.7	2.32	-	27.50	2.89	-
AV	2.4835G	52.61	54.00	-1.39	22.23	3	Vertical	83.7	2.32	-	27.50	2.88	-

802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX

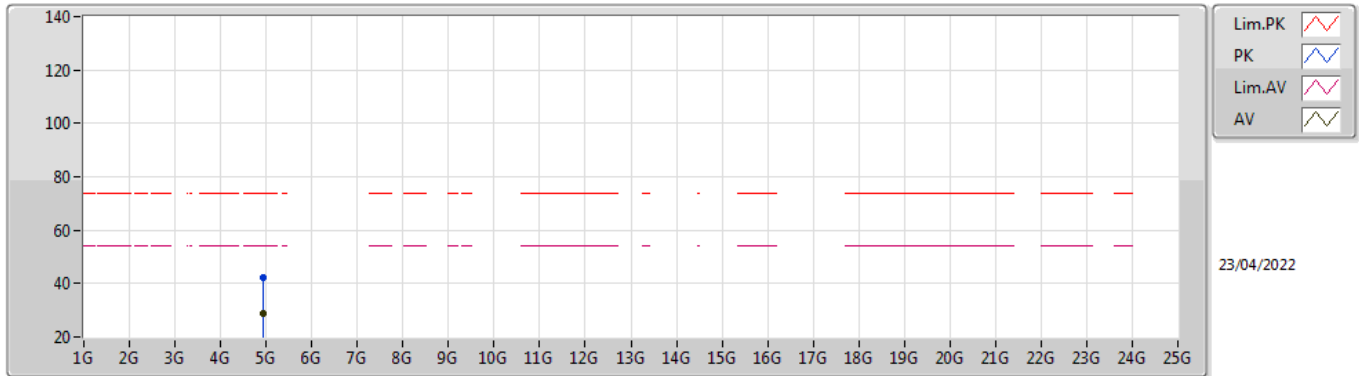


EUT Y_1TX
Setting 54
02-B-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92439G	41.88	74.00	-32.12	37.57	3	Vertical	251	1.49	-	31.40	5.10	32.19
AV	4.92409G	28.64	54.00	-25.36	24.33	3	Vertical	251	1.49	-	31.40	5.10	32.19

802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX

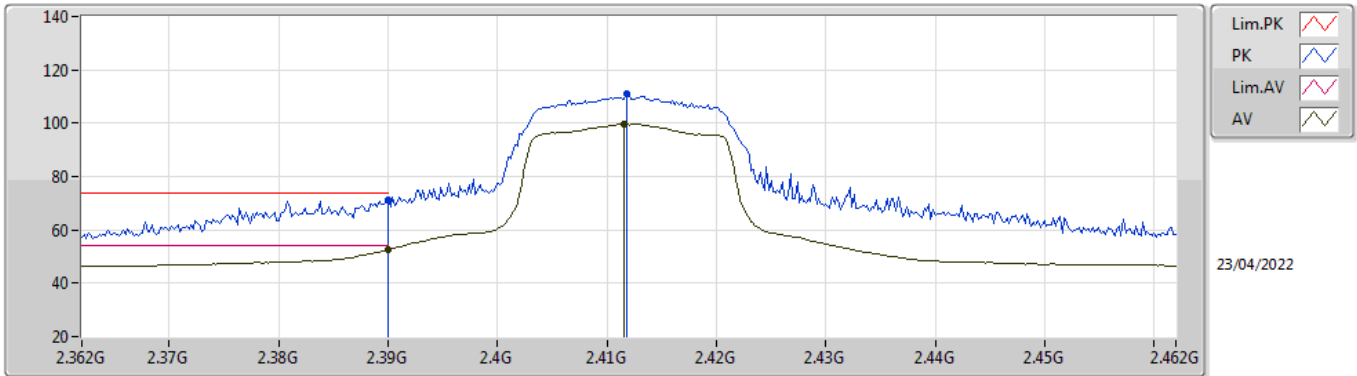


EUT Y_1TX
Setting 54
02-B-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92431G	42.49	74.00	-31.51	38.18	3	Horizontal	36	2.90	-	31.40	5.10	32.19
AV	4.92392G	28.68	54.00	-25.32	24.37	3	Horizontal	36	2.90	-	31.40	5.10	32.19

802.11n HT20_Nss1,(MCS0)_1TX

2412MHz_TX

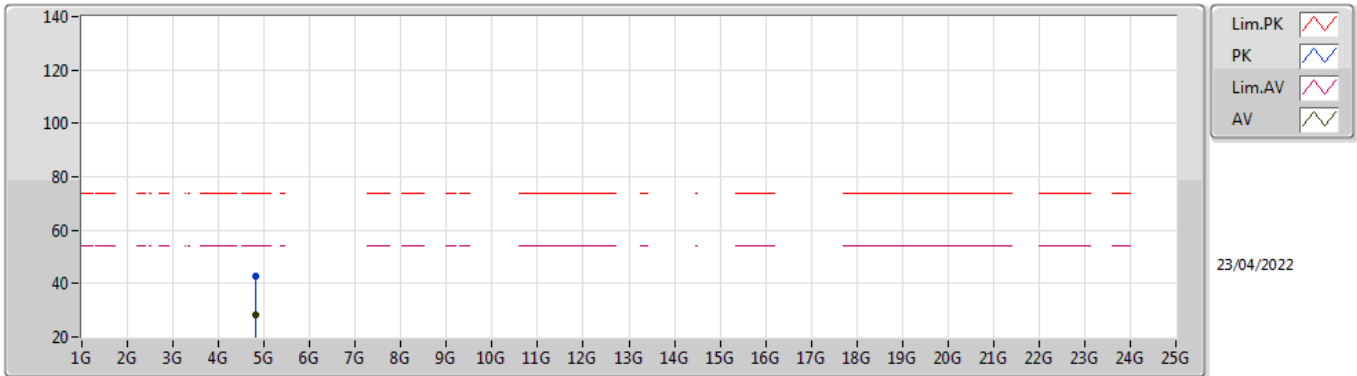


EUT Z_1TX
Setting 54
02-B-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	71.11	74.00	-2.89	40.70	3	Vertical	97.8	2.28	-	27.62	2.79	-
AV	2.39G	52.55	54.00	-1.45	22.14	3	Vertical	97.8	2.28	-	27.62	2.79	-
PK	2.4118G	110.81	Inf	-Inf	80.42	3	Vertical	97.8	2.28	-	27.58	2.81	-
AV	2.4116G	99.89	Inf	-Inf	69.50	3	Vertical	97.8	2.28	-	27.58	2.81	-

802.11n HT20_Nss1,(MCS0)_1TX

2412MHz_TX

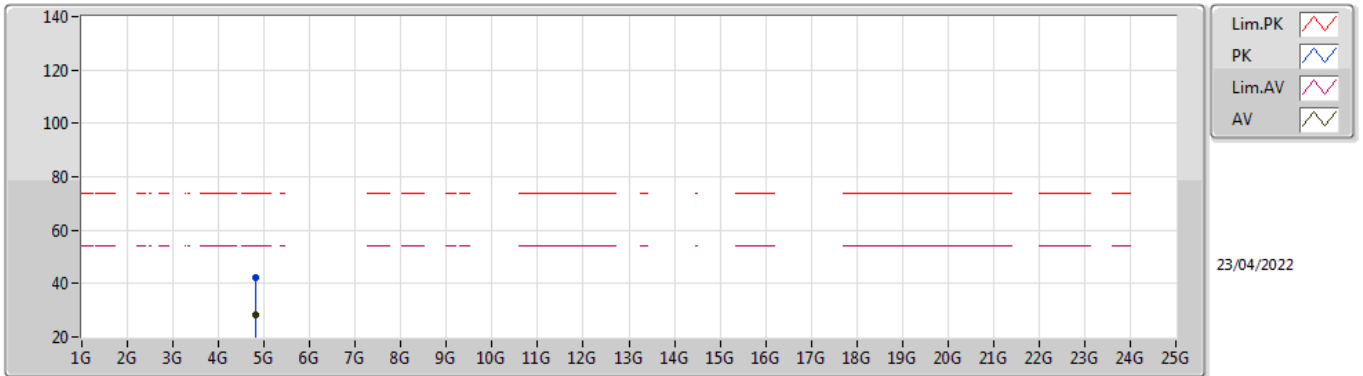


EUT Y_1TX
Setting 54
02-B-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82434G	42.64	74.00	-31.36	38.41	3	Vertical	9	2.26	-	31.35	5.10	32.22
AV	4.82371G	28.47	54.00	-25.53	24.24	3	Vertical	9	2.26	-	31.35	5.10	32.22

802.11n HT20_Nss1,(MCS0)_1TX

2412MHz_TX

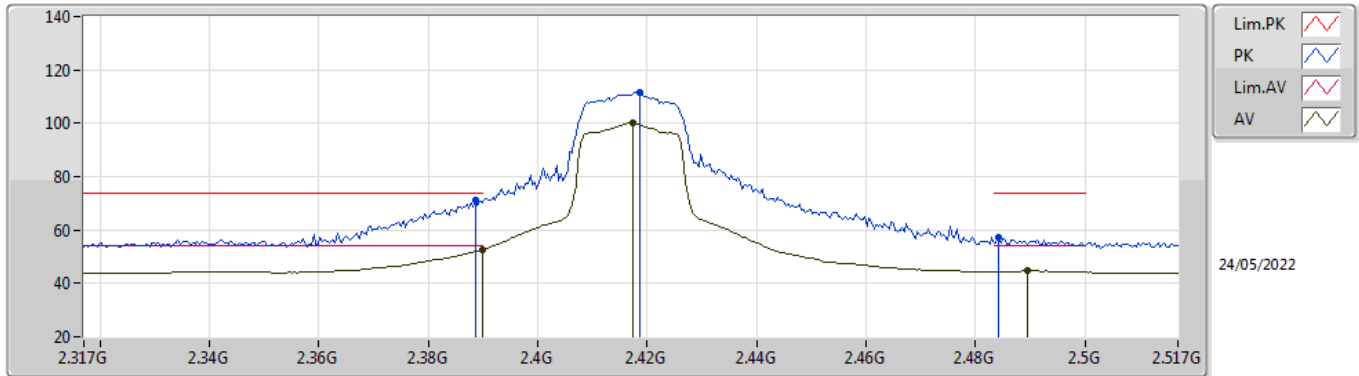


EUT Y_1TX
Setting 54
02-B-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82435G	42.22	74.00	-31.78	37.99	3	Horizontal	67	1.51	-	31.35	5.10	32.22
AV	4.82402G	28.48	54.00	-25.52	24.25	3	Horizontal	67	1.51	-	31.35	5.10	32.22

802.11n HT20_Nss1,(MCS0)_1TX

2417MHz_TX

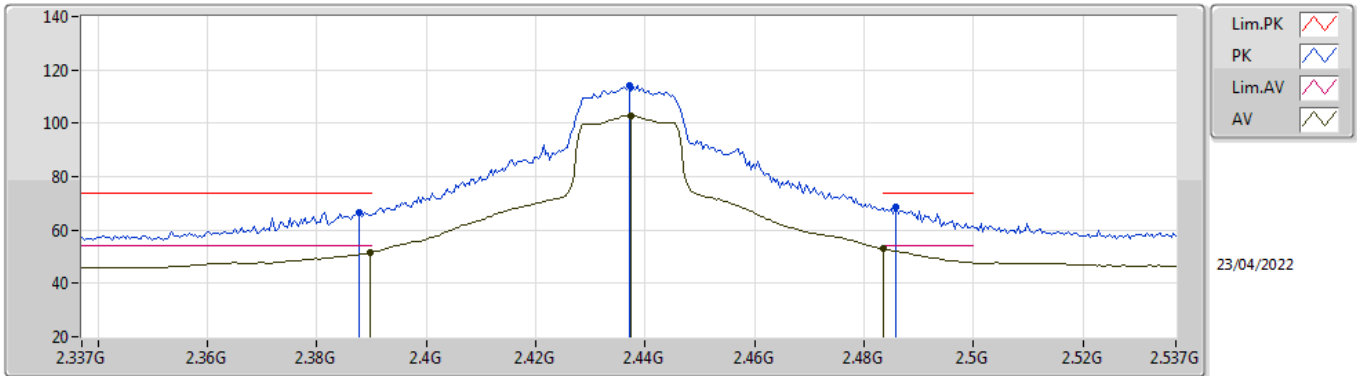


EUT_Z_1TX
Setting 67
02-D-C-6

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3886G	71.02	74.00	-2.98	39.85	3	Vertical	74	2.38	-	28.38	2.79	-
AV	2.3898G	52.39	54.00	-1.61	21.22	3	Vertical	74	2.38	-	28.38	2.79	-
PK	2.4186G	111.74	Inf	-Inf	80.52	3	Vertical	74	2.38	-	28.40	2.82	-
AV	2.4174G	99.99	Inf	-Inf	68.77	3	Vertical	74	2.38	-	28.40	2.82	-
PK	2.4842G	57.08	74.00	-16.92	25.66	3	Vertical	74	2.38	-	28.54	2.88	-
AV	2.4894G	44.69	54.00	-9.31	13.24	3	Vertical	74	2.38	-	28.56	2.89	-

802.11n HT20_Nss1,(MCS0)_1TX

2437MHz_TX

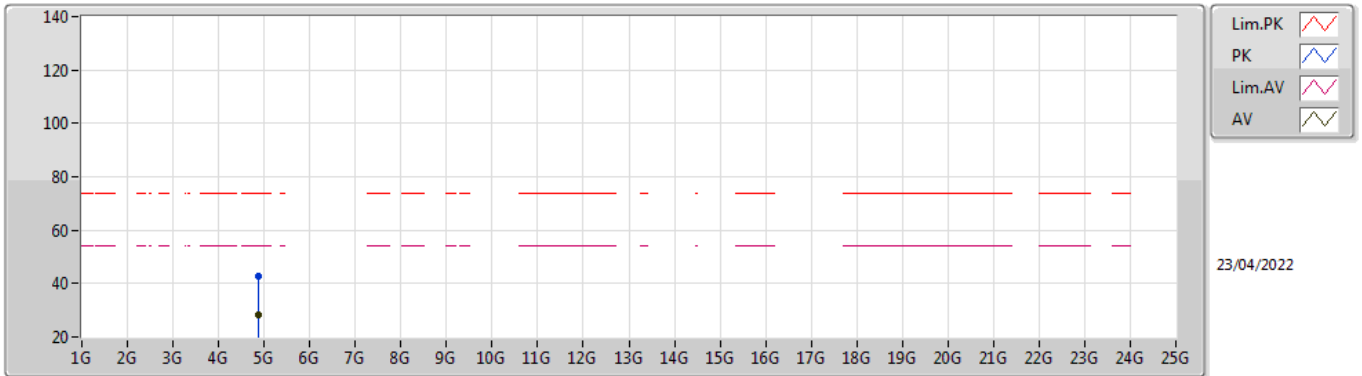


EUT_Z_1TX
Setting 77
02-B-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3878G	66.45	74.00	-7.55	36.04	3	Vertical	99.5	2.32	-	27.62	2.79	-
AV	2.3898G	51.48	54.00	-2.52	21.07	3	Vertical	99.5	2.32	-	27.62	2.79	-
PK	2.437G	114.35	Inf	-Inf	83.98	3	Vertical	99.5	2.32	-	27.53	2.84	-
AV	2.4374G	102.92	Inf	-Inf	72.55	3	Vertical	99.5	2.32	-	27.53	2.84	-
PK	2.4858G	68.39	74.00	-5.61	38.00	3	Vertical	99.5	2.32	-	27.50	2.89	-
AV	2.4835G	52.96	54.00	-1.04	22.58	3	Vertical	99.5	2.32	-	27.50	2.88	-

802.11n HT20_Nss1,(MCS0)_1TX

2437MHz_TX

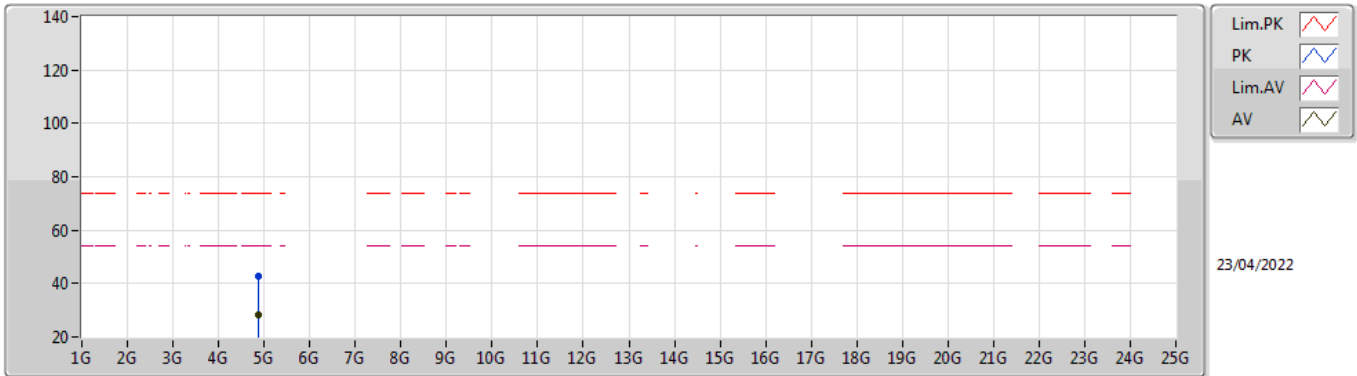


EUT Y_1TX
Setting 77
02-B-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87388G	42.86	74.00	-31.14	38.67	3	Vertical	153	1.37	-	31.30	5.10	32.21
AV	4.87367G	28.33	54.00	-25.67	24.14	3	Vertical	153	1.37	-	31.30	5.10	32.21

802.11n HT20_Nss1,(MCS0)_1TX

2437MHz_TX

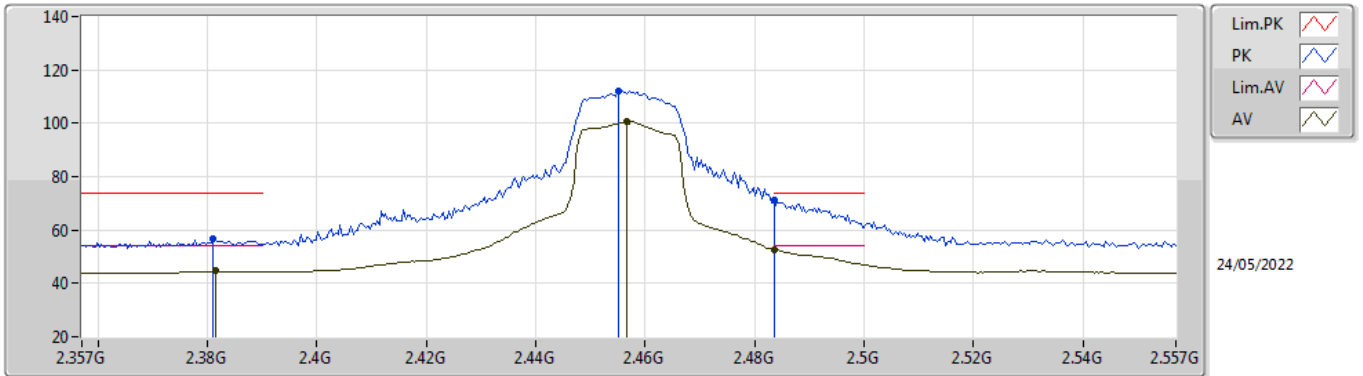


EUT Y_1TX
Setting 77
02-B-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87398G	42.60	74.00	-31.40	38.41	3	Horizontal	301	2.80	-	31.30	5.10	32.21
AV	4.87403G	28.40	54.00	-25.60	24.21	3	Horizontal	301	2.80	-	31.30	5.10	32.21

802.11n HT20_Nss1,(MCS0)_1TX

2457MHz_TX

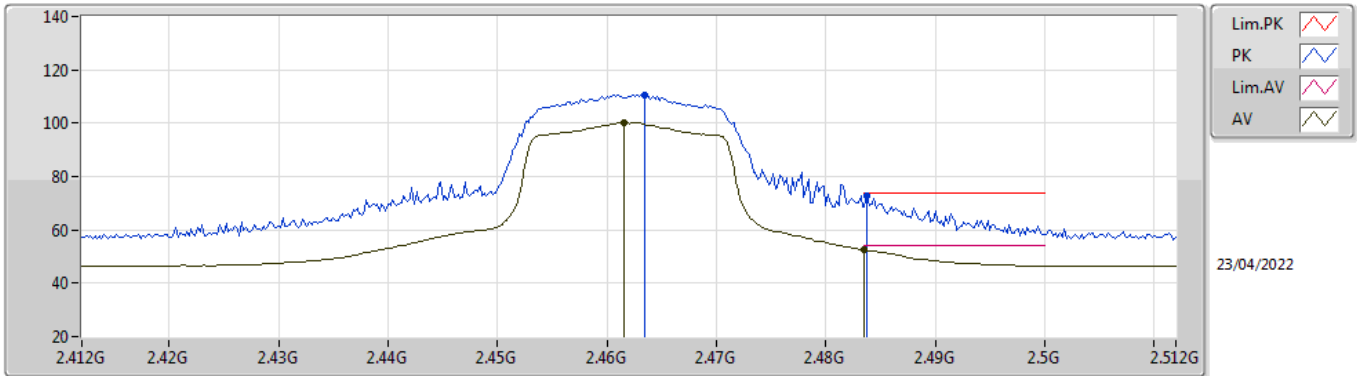


EUT_Z_1TX
Setting 70
02-D-C-6

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.381G	56.49	74.00	-17.51	25.34	3	Vertical	74	1.80	-	28.36	2.79	-
AV	2.3814G	44.66	54.00	-9.34	13.51	3	Vertical	74	1.80	-	28.36	2.79	-
PK	2.455G	112.13	Inf	-Inf	80.86	3	Vertical	74	1.80	-	28.42	2.85	-
AV	2.4566G	100.70	Inf	-Inf	69.41	3	Vertical	74	1.80	-	28.43	2.86	-
PK	2.4835G	71.06	74.00	-2.94	39.65	3	Vertical	74	1.80	-	28.53	2.88	-
AV	2.4835G	52.53	54.00	-1.47	21.12	3	Vertical	74	1.80	-	28.53	2.88	-

802.11n HT20_Nss1,(MCS0)_1TX

2462MHz_TX

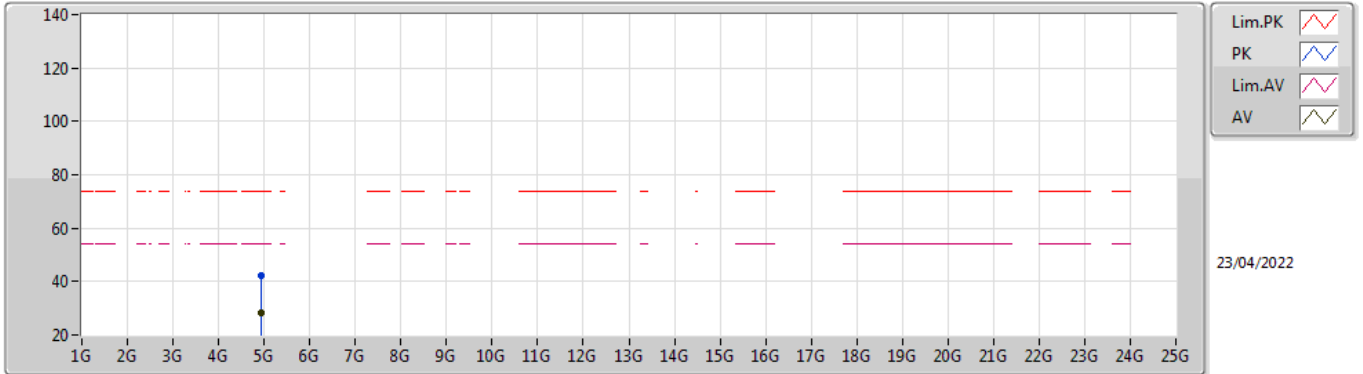


EUT Z_1TX
Setting 57
02-B-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4634G	110.69	Inf	-Inf	80.33	3	Vertical	100.5	2.29	-	27.50	2.86	-
AV	2.4616G	100.34	Inf	-Inf	69.98	3	Vertical	100.5	2.29	-	27.50	2.86	-
PK	2.4838G	72.73	74.00	-1.27	42.35	3	Vertical	100.5	2.29	-	27.50	2.88	-
AV	2.4835G	52.65	54.00	-1.35	22.27	3	Vertical	100.5	2.29	-	27.50	2.88	-

802.11n HT20_Nss1,(MCS0)_1TX

2462MHz_TX

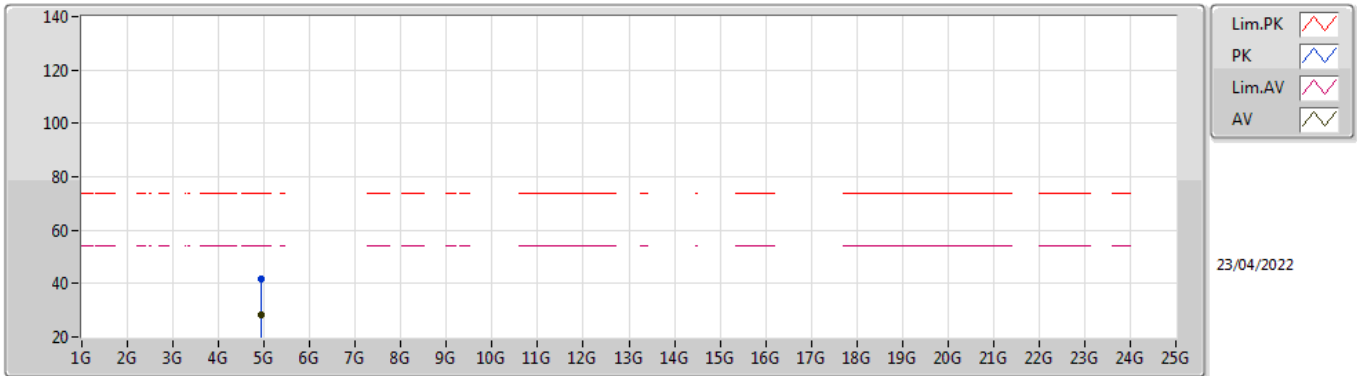


EUT Y_1TX
Setting 57
02-B-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92447G	42.21	74.00	-31.79	37.90	3	Vertical	321	1.81	-	31.40	5.10	32.19
AV	4.92354G	28.09	54.00	-25.91	23.79	3	Vertical	321	1.81	-	31.39	5.10	32.19

802.11n HT20_Nss1,(MCS0)_1TX

2462MHz_TX

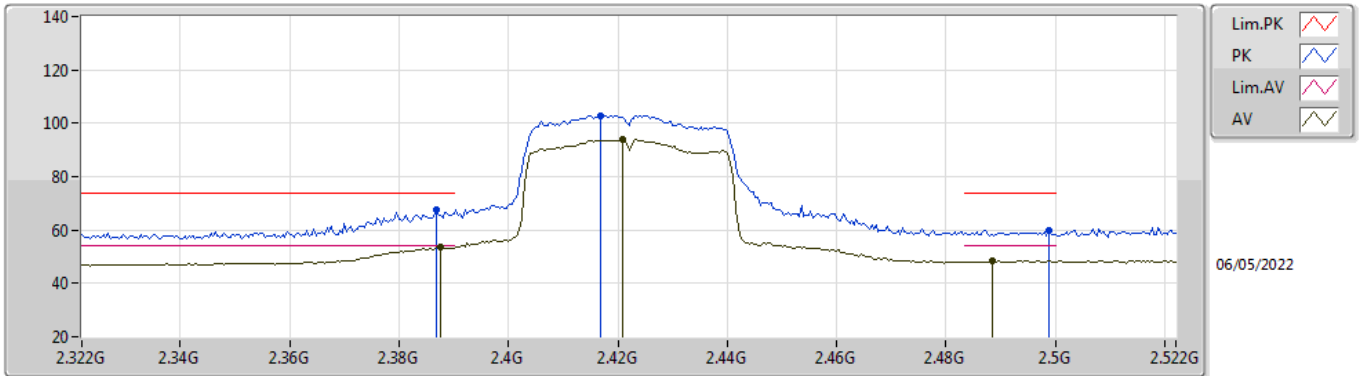


EUT Y_1TX
Setting 57
02-B-B-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92382G	41.98	74.00	-32.02	37.67	3	Horizontal	125	1.63	-	31.40	5.10	32.19
AV	4.92355G	28.15	54.00	-25.85	23.85	3	Horizontal	125	1.63	-	31.39	5.10	32.19

802.11n HT40_Nss1,(MCS0)_1TX

2422MHz_TX

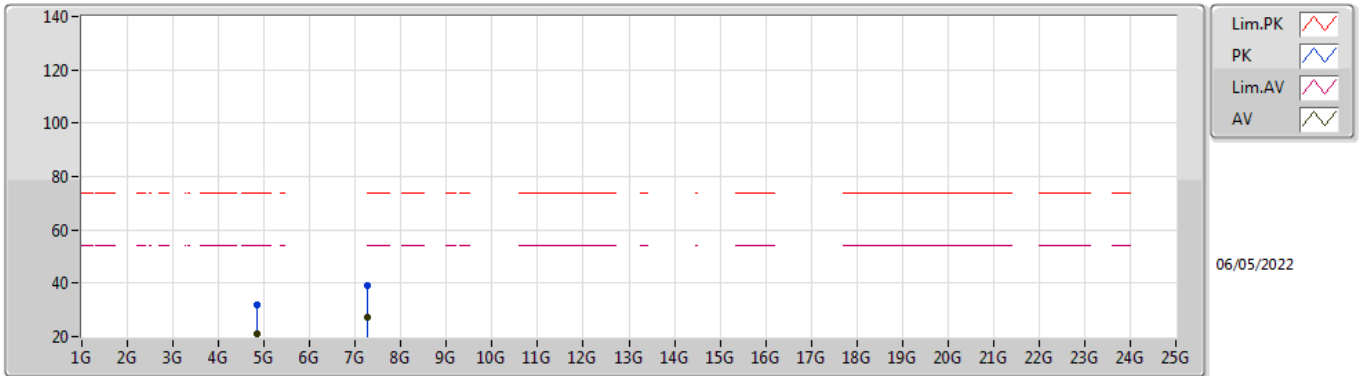


EUT_Z_1TX
Setting 42
02-B-C-6

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3868G	67.54	74.00	-6.46	36.38	3	Vertical	306	2.33	-	28.37	2.79	-
AV	2.3876G	53.56	54.00	-0.44	22.39	3	Vertical	306	2.33	-	28.38	2.79	-
PK	2.4168G	102.99	Inf	-Inf	71.77	3	Vertical	306	2.33	-	28.40	2.82	-
AV	2.4208G	93.92	Inf	-Inf	62.70	3	Vertical	306	2.33	-	28.40	2.82	-
PK	2.4988G	60.01	74.00	-13.99	28.51	3	Vertical	306	2.33	-	28.60	2.90	-
AV	2.4884G	48.38	54.00	-5.62	16.94	3	Vertical	306	2.33	-	28.55	2.89	-

802.11n HT40_Nss1,(MCS0)_1TX

2422MHz_TX

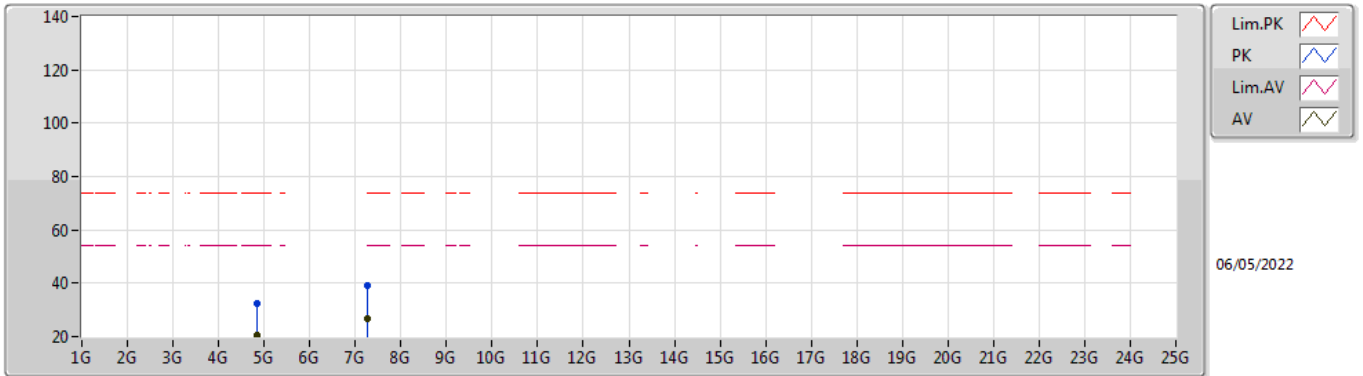


EUT Y_1TX
Setting 42
02-B-C-6

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8575G	32.04	74.00	-41.96	26.03	3	Vertical	227	1.59	-	33.12	5.10	32.21
AV	4.85198G	20.78	54.00	-33.22	14.79	3	Vertical	227	1.59	-	33.10	5.10	32.21
PK	7.2747G	39.04	74.00	-34.96	29.36	3	Vertical	347	1.65	-	36.30	6.14	32.76
AV	7.26294G	27.12	54.00	-26.88	17.48	3	Vertical	347	1.65	-	36.25	6.13	32.74

802.11n HT40_Nss1,(MCS0)_1TX

2422MHz_TX

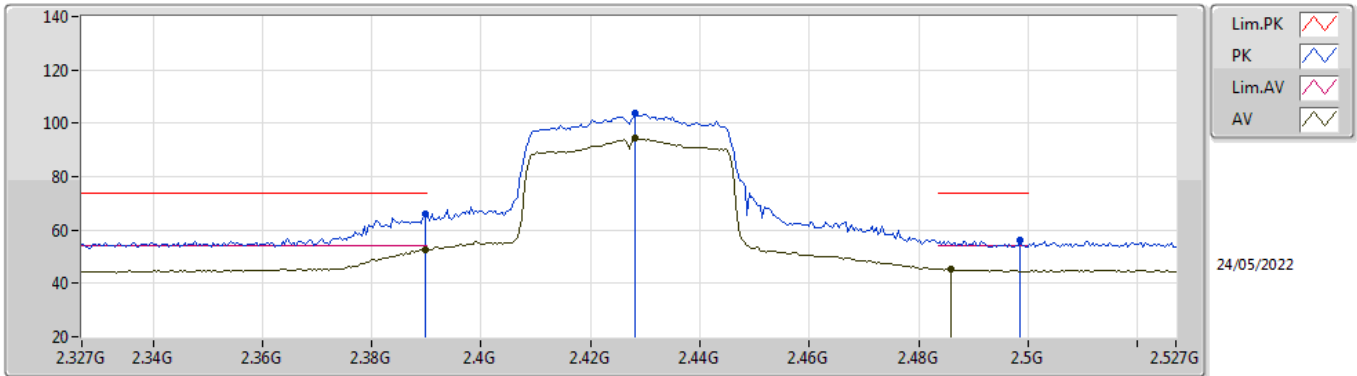


EUT Y_1TX
Setting 42
02-B-C-6

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8455G	32.20	74.00	-41.80	26.25	3	Horizontal	194	1.94	-	33.07	5.10	32.22
AV	4.83926G	20.75	54.00	-33.25	14.83	3	Horizontal	194	1.94	-	33.04	5.10	32.22
PK	7.25418G	39.32	74.00	-34.68	29.69	3	Horizontal	137	2.41	-	36.22	6.13	32.72
AV	7.2675G	26.95	54.00	-27.05	17.30	3	Horizontal	137	2.41	-	36.27	6.13	32.75

802.11n HT40_Nss1,(MCS0)_1TX

2427MHz_TX

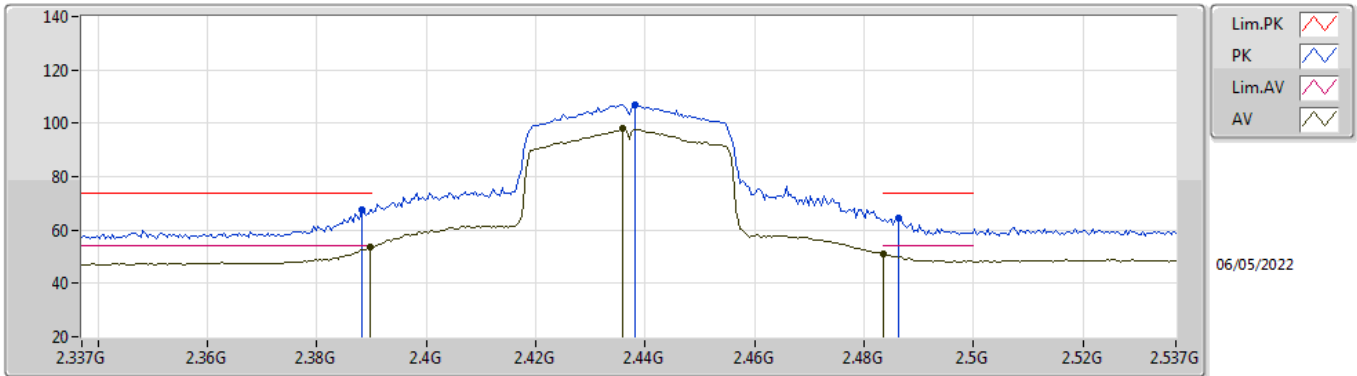


EUT_Z_1TX
Setting 47
02-D-C-6

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	66.09	74.00	-7.91	34.92	3	Vertical	105	1.77	-	28.38	2.79	-
AV	2.3898G	52.79	54.00	-1.21	21.62	3	Vertical	105	1.77	-	28.38	2.79	-
PK	2.4282G	103.80	Inf	-Inf	72.57	3	Vertical	105	1.77	-	28.40	2.83	-
AV	2.4282G	94.69	Inf	-Inf	63.46	3	Vertical	105	1.77	-	28.40	2.83	-
PK	2.4986G	56.40	74.00	-17.60	24.91	3	Vertical	105	1.77	-	28.59	2.90	-
AV	2.4858G	45.57	54.00	-8.43	14.14	3	Vertical	105	1.77	-	28.54	2.89	-

802.11n HT40_Nss1,(MCS0)_1TX

2437MHz_TX

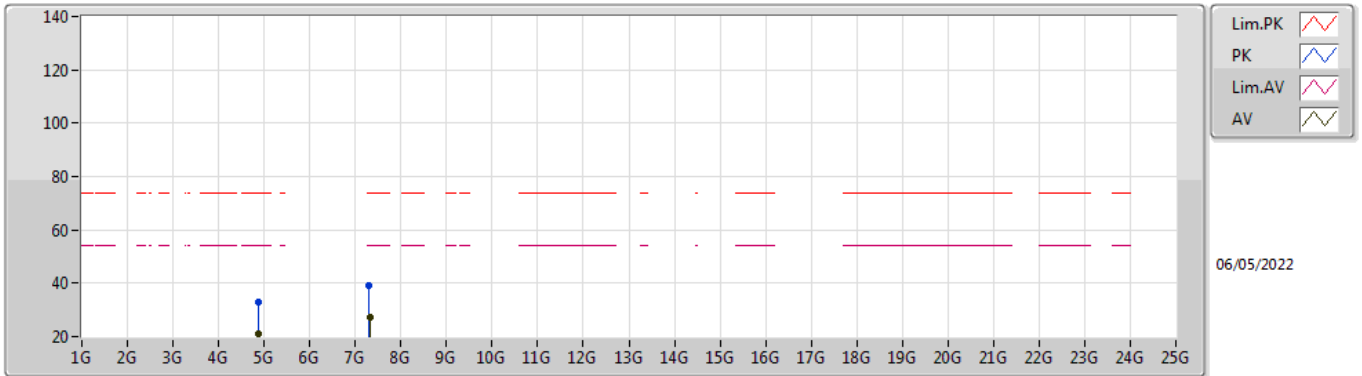


EUT_Z_1TX
Setting 61
02-B-C-6

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3882G	67.79	74.00	-6.21	36.62	3	Vertical	280	1.80	-	28.38	2.79	-
AV	2.3898G	53.64	54.00	-0.36	22.47	3	Vertical	280	1.80	-	28.38	2.79	-
PK	2.4382G	106.85	Inf	-Inf	75.61	3	Vertical	280	1.80	-	28.40	2.84	-
AV	2.4358G	97.93	Inf	-Inf	66.69	3	Vertical	280	1.80	-	28.40	2.84	-
PK	2.4862G	64.73	74.00	-9.27	33.30	3	Vertical	280	1.80	-	28.54	2.89	-
AV	2.4835G	51.12	54.00	-2.88	19.71	3	Vertical	280	1.80	-	28.53	2.88	-

802.11n HT40_Nss1,(MCS0)_1TX

2437MHz_TX

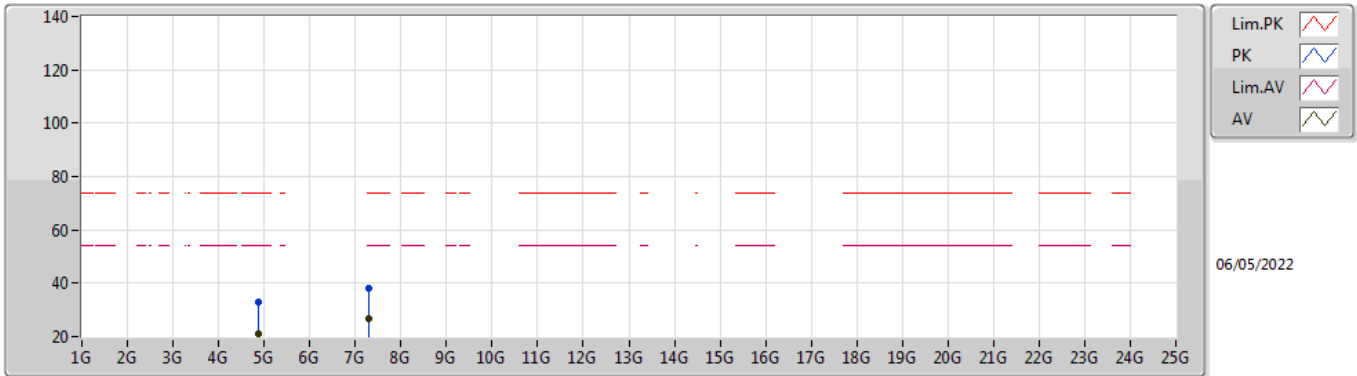


EUT Y_1TX
Setting 61
02-B-C-6

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8833G	32.95	74.00	-41.05	26.88	3	Vertical	104	2.80	-	33.17	5.10	32.20
AV	4.88612G	20.79	54.00	-33.21	14.72	3	Vertical	104	2.80	-	33.17	5.10	32.20
PK	7.3008G	39.03	74.00	-34.97	29.28	3	Vertical	313	2.19	-	36.40	6.15	32.80
AV	7.3245G	27.00	54.00	-27.00	17.23	3	Vertical	313	2.19	-	36.45	6.16	32.84

802.11n HT40_Nss1,(MCS0)_1TX

2437MHz_TX

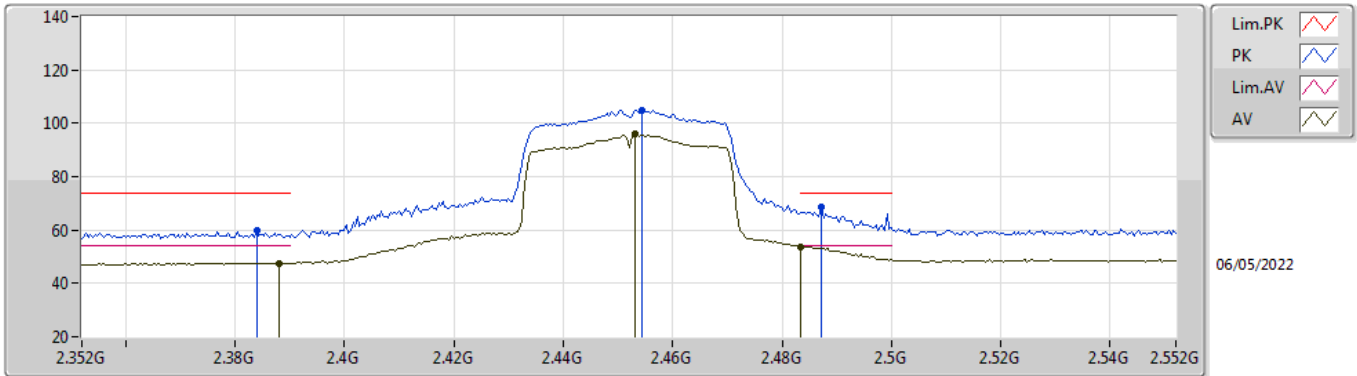


EUT Y_1TX
Setting 61
02-B-C-6

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.88618G	32.78	74.00	-41.22	26.71	3	Horizontal	246	1.16	-	33.17	5.10	32.20
AV	4.86686G	20.81	54.00	-33.19	14.79	3	Horizontal	246	1.16	-	33.13	5.10	32.21
PK	7.30668G	38.31	74.00	-35.69	28.56	3	Horizontal	231	1.92	-	36.41	6.15	32.81
AV	7.30944G	26.71	54.00	-27.29	16.96	3	Horizontal	231	1.92	-	36.42	6.15	32.82

802.11n HT40_Nss1,(MCS0)_1TX

2452MHz_TX

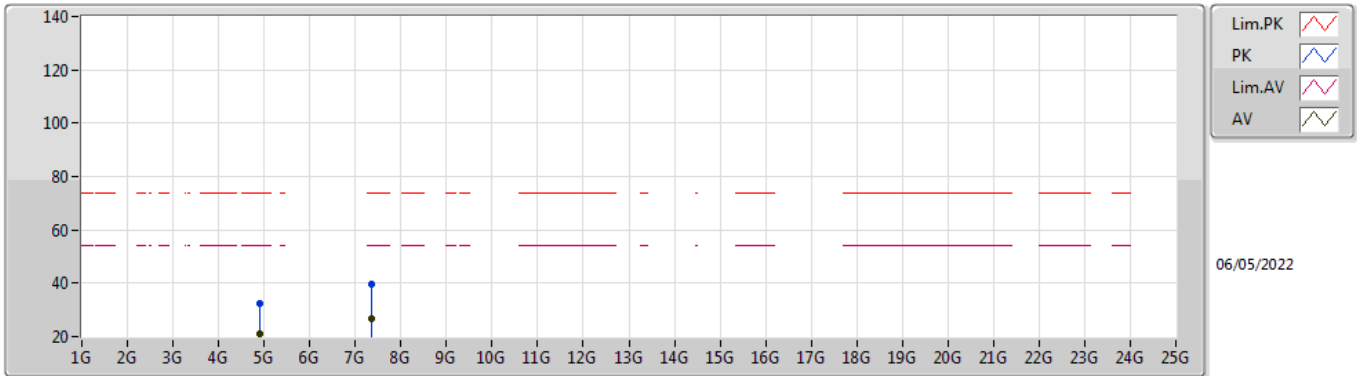


EUT Z_1TX
Setting 53
02-B-C-6

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.384G	59.71	74.00	-14.29	28.55	3	Vertical	2	1.00	-	28.37	2.79	-
AV	2.388G	47.66	54.00	-6.34	16.49	3	Vertical	2	1.00	-	28.38	2.79	-
PK	2.4544G	105.06	Inf	-Inf	73.79	3	Vertical	2	1.00	-	28.42	2.85	-
AV	2.4532G	95.83	Inf	-Inf	64.57	3	Vertical	2	1.00	-	28.41	2.85	-
PK	2.4872G	68.67	74.00	-5.33	37.23	3	Vertical	2	1.00	-	28.55	2.89	-
AV	2.4835G	53.71	54.00	-0.29	22.30	3	Vertical	2	1.00	-	28.53	2.88	-

802.11n HT40_Nss1,(MCS0)_1TX

2452MHz_TX

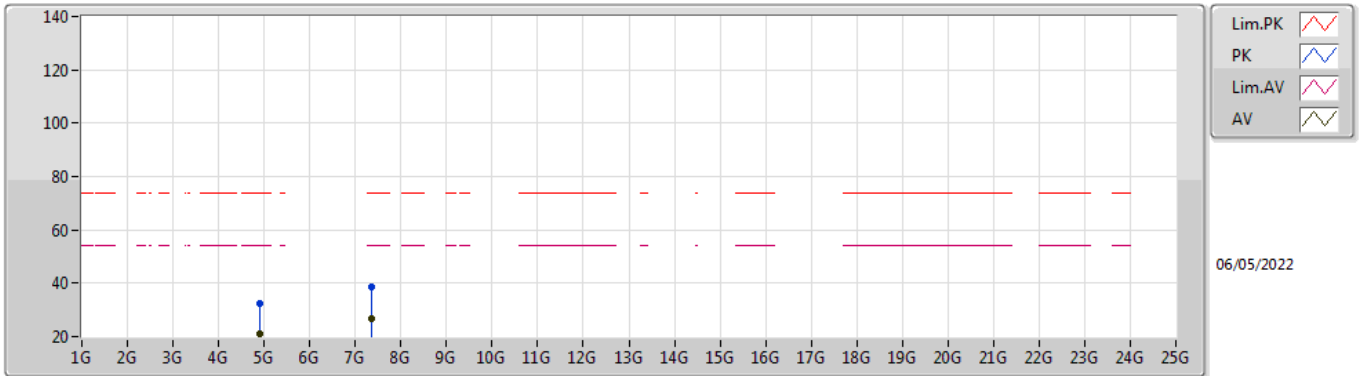


EUT Y_1TX
Setting 53
02-B-C-6

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.91744G	32.31	74.00	-41.69	26.17	3	Vertical	311	2.89	-	33.23	5.10	32.19
AV	4.91846G	20.88	54.00	-33.12	14.73	3	Vertical	311	2.89	-	33.24	5.10	32.19
PK	7.36872G	39.54	74.00	-34.46	29.78	3	Vertical	344	2.33	-	36.50	6.18	32.92
AV	7.37064G	26.88	54.00	-27.12	17.11	3	Vertical	344	2.33	-	36.50	6.19	32.92

802.11n HT40_Nss1,(MCS0)_1TX

2452MHz_TX



EUT Y_1TX
Setting 53
02-B-C-6

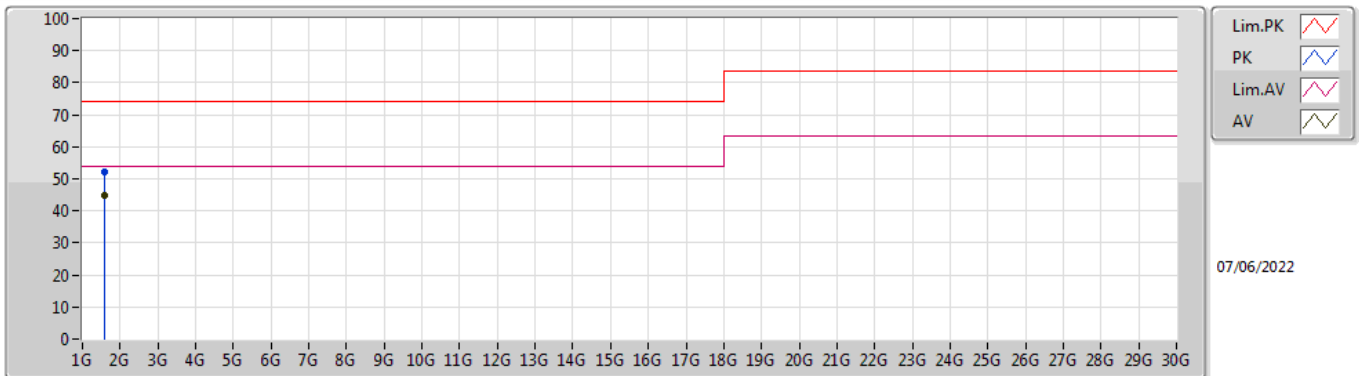
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.89344G	32.66	74.00	-41.34	26.57	3	Horizontal	72	1.20	-	33.19	5.10	32.20
AV	4.89374G	20.98	54.00	-33.02	14.89	3	Horizontal	72	1.20	-	33.19	5.10	32.20
PK	7.36626G	38.78	74.00	-35.22	29.02	3	Horizontal	192	2.95	-	36.50	6.18	32.92
AV	7.34178G	26.70	54.00	-27.30	16.92	3	Horizontal	192	2.95	-	36.48	6.17	32.87



Summary

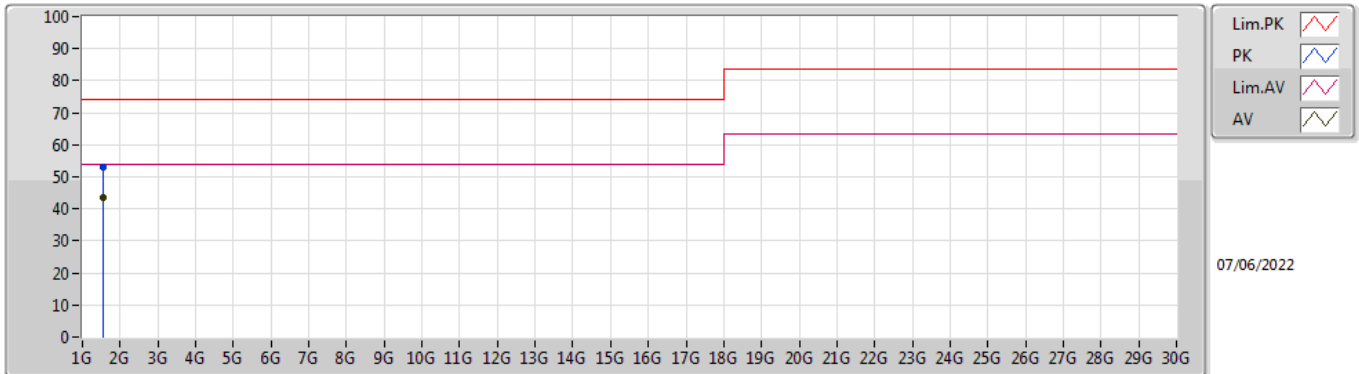
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	1.5847G	44.82	54.00	-9.18	Vertical

Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	1.5679G	52.16	74.00	-21.84	-4.13	-	Vertical	167	1.34	-	56.29	25.50	3.68	33.31
AV	1.5847G	44.82	54.00	-9.18	-4.11	-	Vertical	167	1.34	"Worst"	48.93	25.50	3.69	33.30

Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	1.5597G	53.18	74.00	-20.82	-4.13	-	Vertical	254	1.12	-	57.31	25.50	3.68	33.31
AV	1.5621G	43.62	54.00	-10.38	-4.13	-	Vertical	254	1.12	"Worst"	47.75	25.50	3.68	33.31