



RADIO TEST REPORT

FCC ID : UDX-600191010
Equipment : Catalyst Wireless 9163E Series Wi-Fi 6E Access Point
Brand Name : CISCO
Model Name : CW9163E-B, CW9163E-MR
Applicant : Cisco Systems, Inc.
170 West Tasman Drive, San Jose, CA 95134 USA
Manufacturer : Cisco Systems, Inc.
170 West Tasman Drive, San Jose, CA 95134 USA
Standard : 47 CFR FCC Part 15.407

The product was received on Oct. 12, 2023, and testing was started from Oct. 17, 2023 and completed on Nov. 23, 2023. 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 variant 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

No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)



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History of this test report

TEL : 886-3-656-9065
FAX : 886-3-656-9085
Report Template No.: CB-A12_1 Ver1.4

Page Number : 3 of 37
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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	15.407(a)	Emission Bandwidth	PASS	-
3.3	15.407(a)	Maximum Output Power	PASS	-
3.4	15.407(a)	Power Spectral Density	PASS	-
3.5	15.407(b)	Unwanted Emissions	PASS	-

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the chapter "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Sam Chen**Report Producer: Wendy Pan**



1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5250-5350	a, n (HT20), ac (VHT20), ax (HEW20)	5260-5320	52-64 [4]
5250-5350	n (HT40), ac (VHT40), ax (HEW40)	5270-5310	54-62 [2]
5250-5350	ac (VHT80), ax (HEW80)	5290	58 [1]

For Radio 1

Band	Mode	BWch (MHz)	Nant
5.25-5.35GHz	802.11a	20	1TX/2TX
5.25-5.35GHz	802.11n HT20	20	1TX/2TX
5.25-5.35GHz	802.11n HT20-BF	20	2TX
5.25-5.35GHz	802.11ac VHT20	20	1TX/2TX
5.25-5.35GHz	802.11ac VHT20-BF	20	2TX
5.25-5.35GHz	802.11ax HEW20	20	1TX/2TX
5.25-5.35GHz	802.11ax HEW20-BF	20	2TX
5.25-5.35GHz	802.11n HT40	40	1TX/2TX
5.25-5.35GHz	802.11n HT40-BF	40	2TX
5.25-5.35GHz	802.11ac VHT40	40	1TX/2TX
5.25-5.35GHz	802.11ac VHT40-BF	40	2TX
5.25-5.35GHz	802.11ax HEW40	40	1TX/2TX
5.25-5.35GHz	802.11ax HEW40-BF	40	2TX
5.25-5.35GHz	802.11ac VHT80	80	1TX/2TX
5.25-5.35GHz	802.11ac VHT80-BF	80	2TX
5.25-5.35GHz	802.11ax HEW80	80	1TX/2TX
5.25-5.35GHz	802.11ax HEW80-BF	80	2TX

**For Scanning Radio 2**

Band	Mode	BWch (MHz)	Nant
5.25-5.35GHz	802.11a	20	1TX
5.25-5.35GHz	802.11n HT20	20	1TX
5.25-5.35GHz	802.11ac VHT20	20	1TX
5.25-5.35GHz	802.11ax HEW20	20	1TX
5.25-5.35GHz	802.11n HT40	40	1TX
5.25-5.35GHz	802.11ac VHT40	40	1TX
5.25-5.35GHz	802.11ax HEW40	40	1TX
5.25-5.35GHz	802.11ac VHT80	80	1TX
5.25-5.35GHz	802.11ax HEW80	80	1TX

Note:

- ♦ 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ VHT20, VHT40, VHT80 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- ♦ HEW20, HEW40, HEW80 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ♦ BWch is the nominal channel bandwidth.

**1.1.2 Antenna Information**

Set	Ant.	2.4GHz Port	5GHz Port	6GHz Port	Bluetooth/ Zigbee	GPS	Brand	Model Name	Antenna Type	Connector	Remark	Gain (dBi)
1	1	2	2	-	-	-	CISCO	CW-ANT-O1-NS-00	Dipole	N-Type	External Antenna	Note 1
	2	1	1	-	-	-	CISCO	CW-ANT-O1-NS-00	Dipole	N-Type	External Antenna	
	3	-	-	1	-	-	CISCO	CW-ANT-O1-NS-00	Dipole	N-Type	External Antenna	
	4	-	-	2	-	-	CISCO	CW-ANT-O1-NS-00	Dipole	N-Type	External Antenna	
2	5	1	1	1	-	-	AWAN	A8M6P-100005	PIFA	N-Type	Internal Antenna	
3	6	-	-	-	1	-	AWAN	A8M6P-100003	PIFA	N-Type	Internal Antenna	
4	7	-	-	-	-	1	AWAN	A8M6P-100004	PIFA	N-Type	Internal Antenna	
5	8	-	-	-	-	2	CISCO	CW-ANT-GPS2-S-00	Patch	SMA	External Antenna	
6	9	2	2	-	-	-	CISCO	CW-ANT-D1-NS-00	Patch	N-Type	External Antenna	
	10	1	1	-	-	-	CISCO	CW-ANT-D1-NS-00	Patch	N-Type	External Antenna	
	11	-	-	1	-	-	CISCO	CW-ANT-D1-NS-00	Patch	N-Type	External Antenna	
	12	-	-	2	-	-	CISCO	CW-ANT-D1-NS-00	Patch	N-Type	External Antenna	



Note1:

Ant.	Gain (dBi)								
	2.4GHz	5GHz UNII 1	5GHz UNII 2A	5GHz UNII 2C	5GHz UNII 3	6GHz UNII 5	6GHz UNII 7	Bluetooth / Zigbee	GPS
1	4	8	8	8	8	-	-	-	-
2	4	8	8	8	8	-	-	-	-
3	-	-	-	-	-	8	8	-	-
4	-	-	-	-	-	8	8	-	-
5	4.9	3	3	3.1	3	2.8	3.2	-	-
6	-	-	-	-	-	-	-	5.7	-
7	-	-	-	-	-	-	-	-	3.7
8	-	-	-	-	-	-	-	-	3.18
9	8	9	9	9	9	-	-	-	-
10	8	9	9	9	9	-	-	-	-
11	-	-	-	-	-	9	9	-	-
12	-	-	-	-	-	9	9	-	-

Note2: The above information was declared by manufacturer.

Note3: The antenna 9~ 10 is the cross-polarized antenna; it doesn't need to evaluate array gain.

Note4: For radio 1: The EUT can be equipped with antenna set 1 or set 6 for radio 1.

Note5: Directional gain information

Type	Maximum Output Power	Power Spectral Density
Non-BF	Directional gain = Max.gain + array gain. For power measurements on IEEE 802.11 devices Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{ant}} \left[\sum_{k=1}^{N_{ant}} g_{j,k} \right]^2}{N_{ANT}} \right]$
BF	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{ant}} \left[\sum_{k=1}^{N_{ant}} g_{j,k} \right]^2}{N_{ANT}} \right]$	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{ant}} \left[\sum_{k=1}^{N_{ant}} g_{j,k} \right]^2}{N_{ANT}} \right]$

Ex.

Directional Gain (NSS1) formula :

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{ant}} \left[\sum_{k=1}^{N_{ant}} g_{j,k} \right]^2}{N_{ANT}} \right]$$

$$NSS1(g1,1) = 10^{G1/20} ; NSS1(g1,2) = 10^{G2/20} ; NSS1(g1,3) = 10^{G3/20} ; NSS1(g1,4) = 10^{G4/20}$$

$$g_{j,k} = (NSS1(g1,1) + NSS1(g1,2) + NSS1(g1,3) + NSS1(g1,4))^2$$

$$DG = 10 \log[(NSS1(g1,1) + NSS1(g1,2) + NSS1(g1,3) + NSS1(g1,4))^2 / N_{ANT}] \Rightarrow 10$$

$$\log[(10^{G1/20} + 10^{G2/20} + 10^{G3/20} + 10^{G4/20})^2 / N_{ANT}]$$

Where ;

Set 1 Ant. Dipole

2.4G G1= 4 dBi ; G2= 4 dBi ;DG= 7.01dBi

5G G1= 8 dBi ; G2= 8 dBi ;DG= 11.01dBi

6G G1= 8 dBi ; G2= 8 dBi ;DG= 11.01dBi

Set 6 Ant. Patch Patch (Cross-Polarized Antenna)

2.4G G1= 8.00 dBi ;G2= 8.00 dBi ;

5G UNII-1 G1 = 9.00 dBi; G2 = 9.00 dBi;

5G UNII-2A G1 = 9.00 dBi; G2 = 9.00 dBi;

5G UNII-2C G1 = 9.00 dBi; G2 = 9.00 dBi;

5G UNII-3 G1 = 9.00 dBi; G2 = 9.00 dBi;

2.4G DG = 8.00 dBi

5G UNII-1 DG = 9.00 dBi

5G UNII-2A DG = 9.00 dBi

5G UNII-2C DG = 9.00 dBi

5G UNII-3 DG = 9.00 dBi

Set 6 Ant. Patch

6G G1= 9 dBi ; G2= 9 dBi ;DG= 12.01dBi

**<For Radio 1 (2.4GHz/5GHz/6GHz Functions)>****IEEE 802.11a/b/g/n/VHT/ax****For 1TX/2RX:**

The EUT supports the antenna with TX diversity functions.

Both Port 1 and Port 2 support transmit and receive functions, but only one of them will be used to transmit at one time.

For 2TX/2RX:

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

<For Scanning Radio 2 (2.4GHz/5GHz/6GHz Functions)>**IEEE 802.11a/b/g/n/VHT/ax****For 1TX/1RX:**

Only Port 1 can be use as transmitting/receiving antenna.

<For Radio 3 / Bluetooth/Zigbee Functions>**For 1TX/1RX:**

Only Port 1 can be use as transmitting/receiving antenna.

<For Radio 4 / GPS Functions>**For 1RX:**

The EUT supports the antenna with RX diversity functions.

Both Port 1 and Port 2 support receive functions, but only one of them will be used to receive at one time.



1.1.3 Mode Test Duty Cycle

For Radio 1 + Set 6 Ant.

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a	0.942	0.26	1.977m	1k
802.11ax HEW20	0.801	0.96	5.453m	300
802.11ax HEW20-BF	0.801	0.96	5.452m	300
802.11ax HEW40	0.799	0.97	5.453m	300
802.11ax HEW40-BF	0.802	0.96	5.453m	300
802.11ax HEW80	0.801	0.96	5.452m	300
802.11ax HEW80-BF	0.799	0.97	5.453m	300

Note:

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

1.1.4 EUT Operational Condition

EUT Power Type	From PoE			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	The product has beamforming function for 11n/VHT/11ax in 2.4GHz and 11n/11ac/11ax in 5GHz.			
Function	☒	Outdoor P2M	☐	Indoor P2M
	☐	Fixed P2P	☐	Client
	☒	Point-to-multipoint	☐	Point-to-point
TPC Function	☒	With TPC	☐	Without TPC
Channel Puncturing Function	☐	Supported	☒	Unsupported
Support RU	☒	Full RU	☐	Partial RU
Test Software Version	QSPR Version 5.0-00202			

Note: The above information was declared by manufacturer.



1.1.5 Table for Multiple Listing

The model names in the following table are all refer to the identical product.

Model Name	SW
CW9163E-B	Cisco
CW9163E-MR	Meraki

Note1: From the above models, model: CW9163E-B was selected as representative model for the test and its data was recorded in this report.

Note2: The above information was declared by manufacturer.

1.1.6 Table of Serial Number

Test items	Serial Number
1. AC Power-line Conducted Emissions 2. Radiated Emission Co-location (As below for Non Beamforming mode) 3. Emission Bandwidth 4. Maximum Output Power 5. Power Spectral Density 6. Unwanted Emissions below 1GHz 7. Unwanted Emissions above 1GHz	DSM2711000W
(As below for Beamforming mode) 8. Maximum Output Power	DSM2711001S

Note: The above information was declared by manufacturer.

1.1.7 Table for Radio Function

Radio	Support Band
1	2.4GHz / 5GHz UNII 1~UNII 3 / 6GHz UNII5 , UNII 7
2	Scanning 2.4GHz / 5GHz UNII 1~UNII 3 / 6GHz UNII5 , UNII 7
3	Bluetooth / Zigbee
4	GPS

Note1: The above information was declared by manufacturer.

Note2: The Radio 1 and Radio 2 can't be operated simultaneously.

1.1.8 Table for EUT Information

EUT	RJ-45 Connector	Console Connector
1	Brand Name: UDE Model Name: R66-MK-3001	Brand Name: UDE Model Name: R66-MK-2001
2	Brand Name: ODS Model Name: CMK-RJ45-CAP	Brand Name: ODS Model Name: CMK-RJ45-CG

Note1: From the above EUTs, EUT 1 was selected as representative EUT for all the tests and its data was recorded in this report.

Note2: The above information was declared by manufacturer.



1.1.9 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: FR340101AC

Below is the table for the change of the product with respect to the original one.

Modifications	Performance Checking
1. Adding one set antenna (antenna set 6) with different antenna type and higher gain for Radio 1 use only.	All test items (Except Radiated Emission Co-location)
2. Adding a bracket of antenna and used for antenna set 6. 3. Revise the typo in antenna model names to "CW-ANT-O1-NS-00" from "CW-ANT-O1-NS" and to "CW-ANT-GPS2-S-00" from "CW-ANT-GPS2".	After evaluating, it is not necessary to re-test all test items.



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
- ♦ ANSI C63.10-2013
- ♦ FCC KDB 789033 D02 v02r01

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

- ♦ FCC KDB 662911 D01 v02r01
- ♦ FCC KDB 412172 D01 v01r01
- ♦ FCC KDB 414788 D01 v01r01

1.3 Testing Location Information

Testing Location Information	
Test Lab. : Sporton International Inc. Hsinchu Laboratory	
Hsinchu (TAF: 3787)	ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.) 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	TH01-CB	Ken Yeh	20.5~21.3 / 63~67	Oct. 17, 2023~Oct. 31, 2023
Radiated below 1GHz	03CH01-CB	Jackson Peng	21.2-22.3 / 56-59	Oct. 17, 2023~Nov.17, 2023
Radiated above 1GHz	03CH03-CB	Jackson Peng	22.7-23.8 / 56-59	Oct. 17, 2023~Nov.17, 2023
AC Conduction	CO01-CB	Joe Chu	22~23 / 54~55	Nov. 23, 2023

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.4 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.1 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.1 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.2 dB	Confidence levels of 95%
Conducted Emission	3.1 dB	Confidence levels of 95%
Output Power Measurement	0.8 dB	Confidence levels of 95%
Power Density Measurement	3.1 dB	Confidence levels of 95%
Bandwidth Measurement	2.2%	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

For Radio 1 + Set 6 Ant.

Mode	Power Setting
802.11a_Nss1,(6Mbps)_1TX	-
5260MHz	19.5
5300MHz	19.5
5320MHz	20
802.11ax HEW20_Nss1,(MCS0)_1TX	-
5260MHz	20.5
5300MHz	20.5
5320MHz	21
802.11ax HEW40_Nss1,(MCS0)_1TX	-
5270MHz	19.5
5310MHz	19.5
802.11ax HEW80_Nss1,(MCS0)_1TX	-
5290MHz	19
802.11a_Nss1,(6Mbps)_1TX	-
5260MHz	20
5300MHz	20
5320MHz	20
802.11ax HEW20_Nss1,(MCS0)_1TX	-
5260MHz	21
5300MHz	21
5320MHz	21
802.11ax HEW40_Nss1,(MCS0)_1TX	-
5270MHz	20
5310MHz	21
802.11ax HEW80_Nss1,(MCS0)_1TX	-
5290MHz	20.5
802.11a_Nss1,(6Mbps)_2TX	-
5260MHz	16.5
5300MHz	16.5
5320MHz	16.5
802.11ax HEW20_Nss1,(MCS0)_2TX	-
5260MHz	17.5
5300MHz	17.5
5320MHz	17.5
802.11ax HEW40_Nss1,(MCS0)_2TX	-



Mode	Power Setting
5270MHz	17
5310MHz	17
802.11ax HEW80_Nss1,(MCS0)_2TX	-
5290MHz	17
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
5260MHz	17.5
5300MHz	17.5
5320MHz	17.5
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
5270MHz	17
5310MHz	17
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-
5290MHz	17

Note:

- ♦ Evaluated HEW20/HEW40/HEW80 mode only, due to similar modulation. The power setting of HT20/HT40/VHT20/VHT40/VHT80 mode are the same or lower than HEW20/HEW40/HEW80.
- ♦ The EUT supports beamforming and CDD modes, and the CDD mode is the worst case. Therefore, all test items are evaluated in the report. The beamforming mode only evaluates the output power.

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. The EUT powered by PoE 1~5, and "PoE 3" has been evaluated to be the worst case. Thus, the measurement will follow this same test mode. 2. There are EUT 1 and EUT 2, and "EUT 1" has been evaluated to be the worst case. Thus, the measurement will follow this same test mode.	
1	EUT 1 + Radio 1 (2.4GHz) + PoE 3 + Set 6 Ant.
2	EUT 1 + Radio 1 (5GHz) + PoE 3 + Set 6 Ant.
3	EUT 1 + Radio 1 (6GHz) + PoE 3 + Set 6 Ant.
For operating mode 1 is the worst case and it was record in this test report.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emission Bandwidth Maximum Output Power Power Spectral Density
Test Condition	Conducted measurement at transmit chains
1	EUT 1 + Radio 1 + Set 6 Ant.



The Worst Case Mode for Following Conformance Tests	
Tests Item	Unwanted Emissions
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	CTX
1. After evaluating, the worst case was found at Y axis. So the measurement will follow this same test configuration. 2. The EUT powered by PoE 1~5, and "PoE 5" has been evaluated to be the worst case. Thus, the measurement will follow this same test mode. 3. There are EUT 1 and EUT 2, and "EUT 1" has been evaluated to be the worst case. Thus, the measurement will follow this same test mode.	
1	EUT 1 in Y axis + Radio 1 (2.4GHz) + PoE 5 + Set 6 Ant.
2	EUT 1 in Y axis + Radio 1 (5GHz) + PoE 5 + Set 6 Ant.
3	EUT 1 in Y axis + Radio 1 (6GHz) + PoE 5 + Set 6 Ant.
For operating mode 3 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
	After evaluating, the worst case was found at Y axis. So the measurement will follow this same test configuration.
1	EUT 1 in Y axis + Radio 1 + Set 6 Ant.



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	Radio 1 + Set 1 Ant. (WLAN 2.4GHz+5GHz+6GHz) + Scanning Radio 2 Set 2 Ant. (WLAN 2.4GHz) + Radio 3 (Bluetooth) + Set 3 Ant.
2	Radio 1 + Set 1 Ant. (WLAN 2.4GHz+5GHz+6GHz) + Scanning Radio 2 Set 2 Ant. (WLAN 5GHz) + Radio 3 (Bluetooth) + Set 3 Ant.
3	Radio 1 + Set 1 Ant. (WLAN 2.4GHz+5GHz+6GHz) + Scanning Radio 2 Set 2 Ant. (WLAN 6Hz) + Radio 3 (Bluetooth) + Set 3 Ant.
4	Radio 1 + Set 1 Ant. (WLAN 2.4GHz+5GHz+6GHz) + Scanning Radio 2 Set 2 Ant. (WLAN 2.4GHz) + Radio 3 (Zigbee) + Set 3 Ant.
5	Radio 1 + Set 1 Ant. (WLAN 2.4GHz+5GHz+6GHz) + Scanning Radio 2 Set 2 Ant. (WLAN 5GHz) + Radio 3 (Zigbee) + Set 3 Ant.
6	Radio 1 + Set 1 Ant. (WLAN 2.4GHz+5GHz+6GHz) + Scanning Radio 2 Set 2 Ant. (WLAN 6Hz) + Radio 3 (Zigbee) + Set 3 Ant.
7	Radio 1 + Set 6 Ant. (WLAN 2.4GHz+5GHz+6GHz) + Scanning Radio 2 Set 2 Ant. (WLAN 2.4GHz) + Radio 3 (Bluetooth) + Set 3 Ant.
8	Radio 1 + Set 6 Ant. (WLAN 2.4GHz+5GHz+6GHz) + Scanning Radio 2 Set 2 Ant. (WLAN 5GHz) + Radio 3 (Bluetooth) + Set 3 Ant.
9	Radio 1 + Set 6 Ant. (WLAN 2.4GHz+5GHz+6GHz) + Scanning Radio 2 Set 2 Ant. (WLAN 6Hz) + Radio 3 (Bluetooth) + Set 3 Ant.
10	Radio 1 + Set 6 Ant. (WLAN 2.4GHz+5GHz+6GHz) + Scanning Radio 2 Set 2 Ant. (WLAN 2.4GHz) + Radio 3 (Zigbee) + Set 3 Ant.
11	Radio 1 + Set 6 Ant. (WLAN 2.4GHz+5GHz+6GHz) + Scanning Radio 2 Set 2 Ant. (WLAN 5GHz) + Radio 3 (Zigbee) + Set 3 Ant.
12	Radio 1 + Set 6 Ant. (WLAN 2.4GHz+5GHz+6GHz) + Scanning Radio 2 Set 2 Ant. (WLAN 6Hz) + Radio 3 (Zigbee) + Set 3 Ant.
Refer to Sporton Test Report No.: FA340101-03 for Co-location RF Exposure Evaluation.	

Note: The PoEs are for measurement only, would not be marketed.

PoE information as below:

Power	Brand Name	Model Name
PoE 1	PHIHONG	POEA33U-1ATE
PoE 2	PHIHONG	POE60U-1BT-X
PoE 3	PHIHONG	POE29U-1AT(PL)
PoE 4	Delta	ADH-65AR B
PoE 5	Cisco	POEO75U-1BT

2.3 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.



2.4 Accessories

Equipment	Brand Name	Model Name	Remark
Mount bracket 1*1	Meraki	MA-MNT-MR-16	Used for CW9163E-MR
Mount bracket 2*1	Cisco	AIR-MNT-VERT1	Used for CW9163E-B
Waterproof Covering (Cap) 1*1	UDE	R66-MK-3001	Used for EUT 1
Waterproof Covering (Cap) 2*1	ODS	CMK-RJ45-CAP	Used for EUT 2
Waterproof Covering (Cable Gland) 1*1	UDE	R66-MK-2001	Used for EUT 1
Waterproof Covering (Cable Gland) 2*1	ODS	CMK-RJ45-CG	Used for EUT 2
Bracket of antenna	Cisco	CW-WNT-ART2	Used for Ant.9~12

2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	LAN NB	DELL	E6430	N/A
B	PoE 3	PHIHONG	POE29U-1AT(PL)	N/A

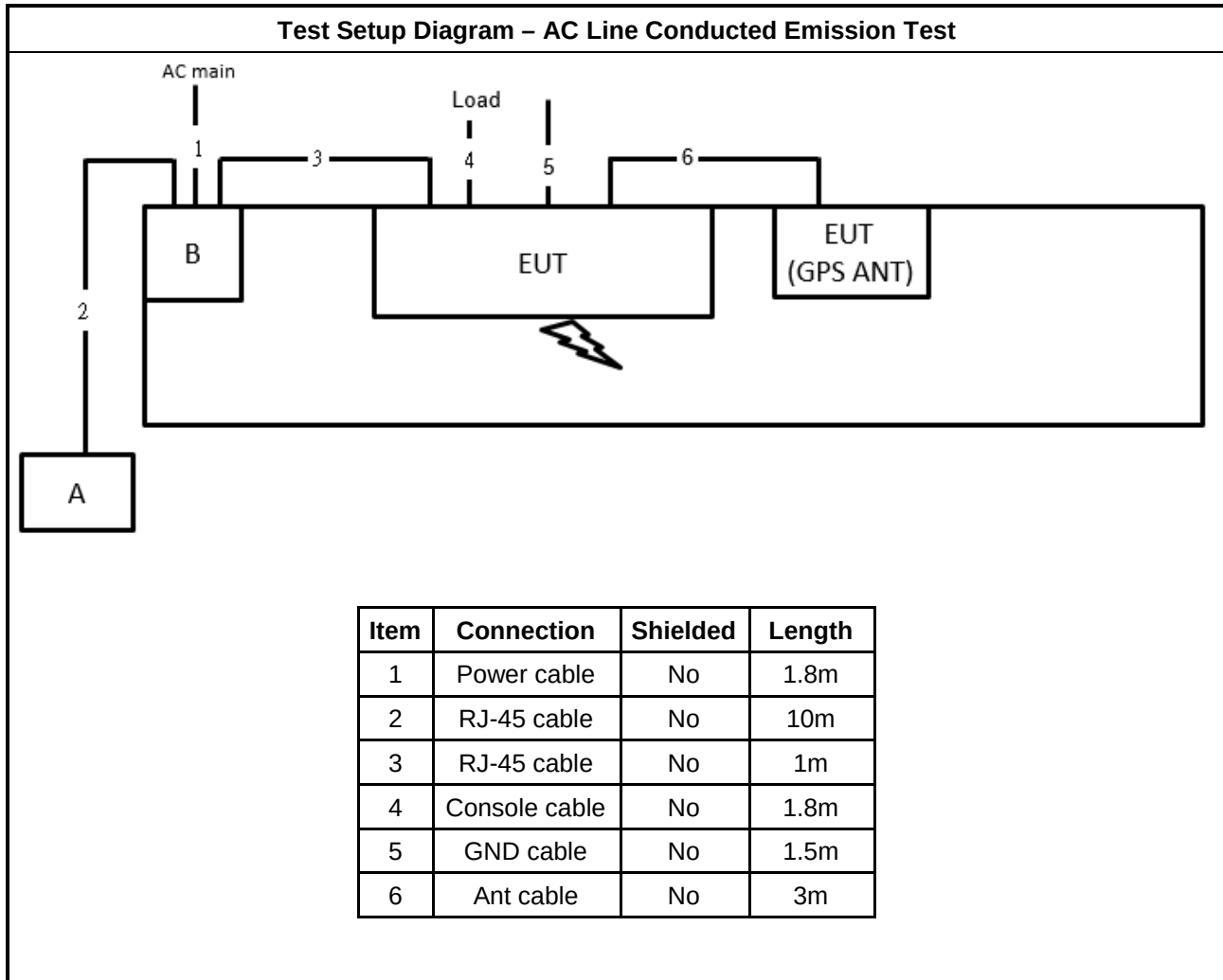
For Radiated:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	PoE 5	Cisco	POEO75U-1BT	N/A
B	Notebook	DELL	E6430	N/A

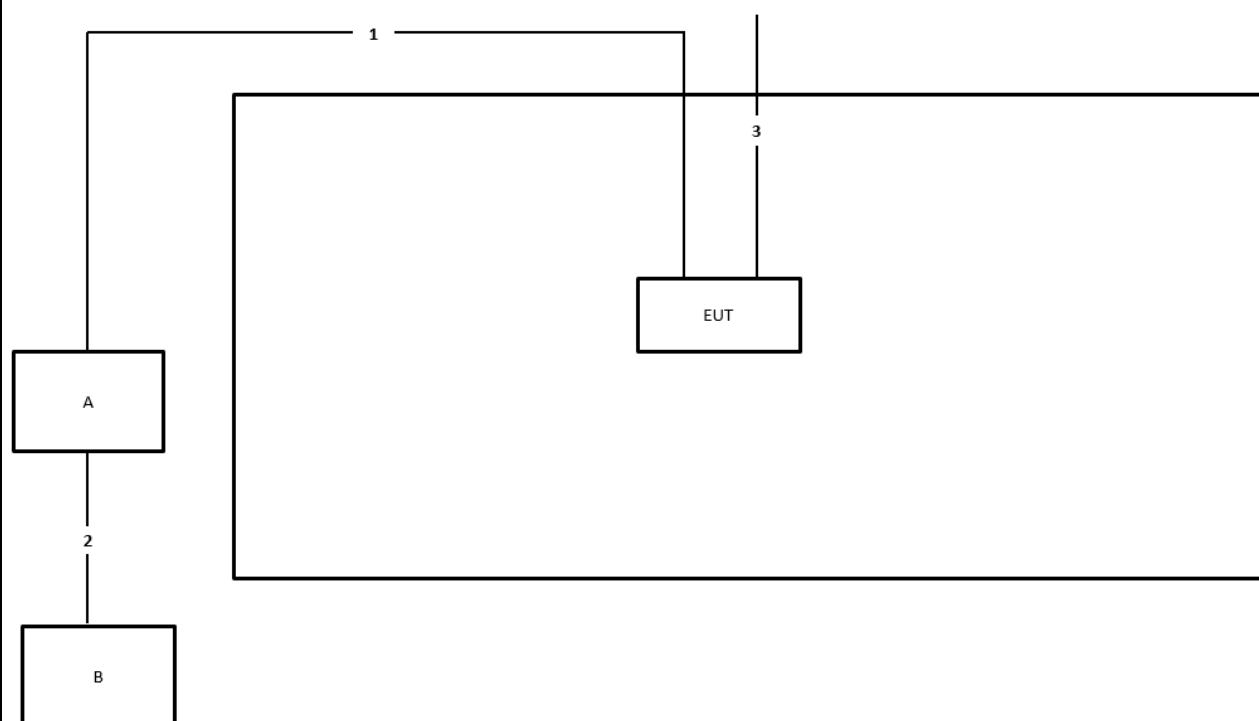
For RF Conducted:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	PoE 4	Delta	ADH-65AR B	N/A

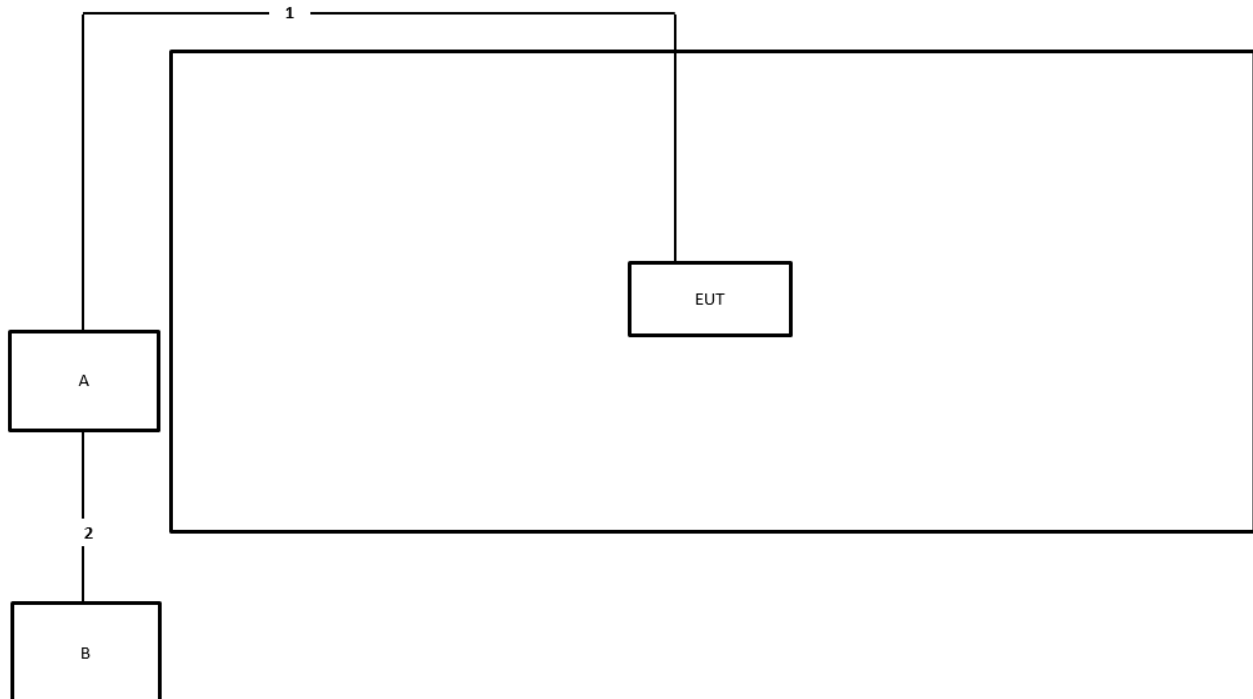
2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test < 1GHz



Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	RJ-45 cable	No	1.5m
3	Ground cable	No	1m

Test Setup Diagram - Radiated Test > 1GHz


Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	RJ-45 cable	No	1.5m



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.		

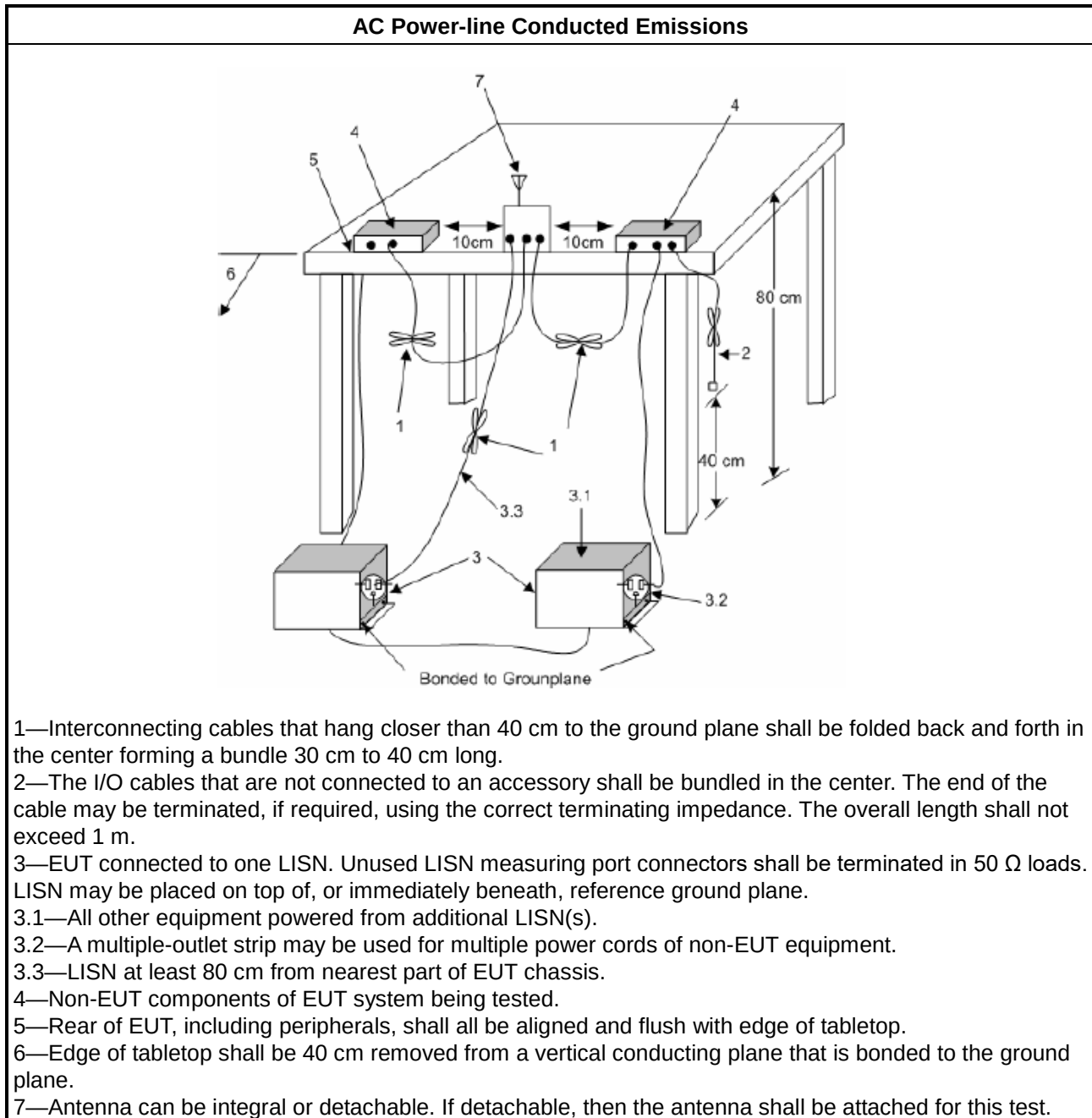
3.1.2 Measuring Instruments

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 for AC power-line conducted emissions.

3.1.4 Test Setup



3.1.5 Measurement Results Calculation

The measured Level is calculated using:

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

3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

Emission Bandwidth Limit	
UNII Devices	
☐	For the 5.15-5.25 GHz band, N/A
☒	For the 5.25-5.35 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in MHz.
☐	For the 5.47-5.725 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in MHz.
☐	For the 5.725-5.85 GHz band, 26 dB emission bandwidth ,N/A. 6 dB emission bandwidth $\geq 500\text{kHz}$.
LE-LAN Devices	
☐	For the band 5.15-5.25 GHz, the maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
☐	For the 5.25-5.35 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
☐	For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
☐	For the 5.725-5.85 GHz band, 6 dB emission bandwidth $\geq 500\text{kHz}$.

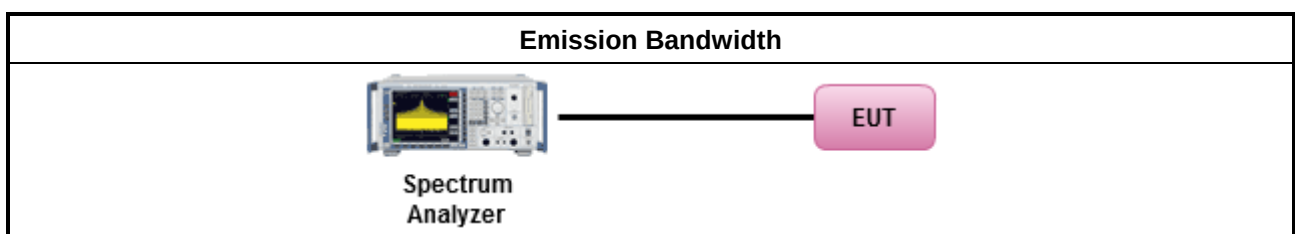
3.2.2 Measuring Instruments

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 FCC KDB 789033 D02, clause C for EBW and clause D for OBW measurement.
☐	Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.
☐	Refer as IC RSS-Gen, clause 4.6 for bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B



3.3 Maximum Output Power

3.3.1 Limit

Maximum Output Power Limit	
UNII Devices	
☐ For the 5.15-5.25 GHz band:	
☐	- Outdoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. e.i.r.p. at any elevation angle above 30 degrees ≤ 125mW [21dBm] - Indoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ - Point-to-point AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 23$ dBi, then $P_{Out} = 30 - (G_{TX} - 23)$. - Mobile or Portable Client: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
☒	For the 5.25-5.35 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
☐	For the 5.47-5.725 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
☐ For the 5.725-5.85 GHz band:	
☐	- Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
LE-LAN Devices	
☐	For the 5.15-5.25 GHz band, the maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
☐	For the 5.25-5.35 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
☐	For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
☐ For the 5.725-5.85 GHz band:	
☐	- Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
P_{Out} = maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

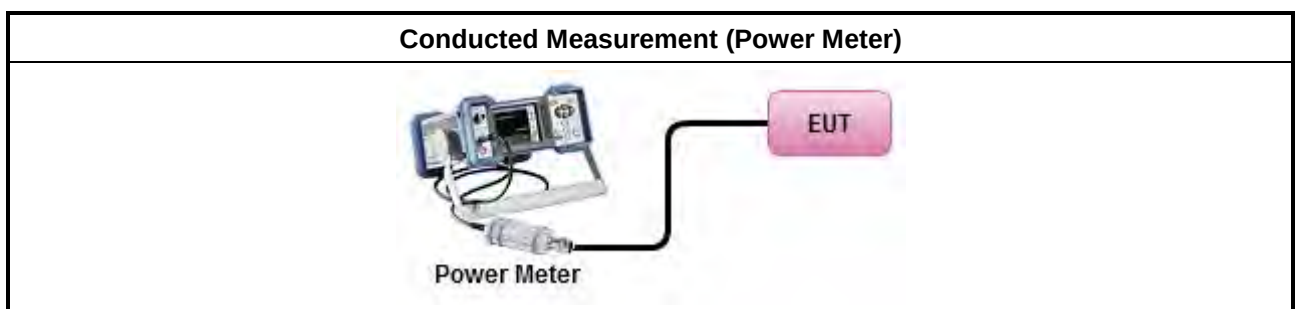
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
	Average over on/off periods with duty factor
☐	Refer as FCC KDB 789033 D02, clause E Method SA-2 (spectral trace averaging).
☐	Refer as FCC KDB 789033 D02, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
	Wideband RF power meter and average over on/off periods with duty factor
☒	Refer as FCC KDB 789033 D02, clause E Method PM-G (using an RF average power meter).
☒	For conducted measurement.
	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.
	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]) $EIRP_{total} = P_{total} + DG$
☐	For radiated measurement.
	- Refer as FCC KDB 789033 D02 clause II A.1.F "Antenna-port Conducted versus Radiated Testing" - Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz. - Refer as FCC KDB 412172 D01 clause 2.2 for EIRP calculation.

3.3.4 Test Setup



3.3.5 Test Result of Maximum Output Power

Refer as Appendix C



3.4 Power Spectral Density

3.4.1 Limit

Peak Power Spectral Density Limit	
UNII Devices	
☐ For the 5.15-5.25 GHz band:	
☐	- Outdoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$. - Indoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$. - Point-to-point AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 23$ dBi, then $P_{Out} = 17 - (G_{TX} - 23)$. - Mobile or Portable Client: the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.
☒	For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.
☐	For the 5.47-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.
☐ For the 5.725-5.85 GHz band:	
☐	- Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If $G_{TX} > 6$ dBi, then $PPSD = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz.
LE-LAN Devices	
☐ For the 5.15-5.25 GHz band, the e.i.r.p. peak power spectral density (PPSD) ≤ 10 dBm/MHz.	
☐ For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz.	
☐	e.i.r.p. greater than 200 mW shall comply with the following e.i.r.p. at different elevations, where θ is the angle above the local horizontal plane (of the Earth) as shown below: -13 dBW/MHz for $0^\circ \leq \theta < 8^\circ$; -13 - 0.716 ($\theta - 8$) dBW/MHz for $8^\circ \leq \theta < 40^\circ$ -35.9 - 1.22 ($\theta - 40$) dBW/MHz for $40^\circ \leq \theta \leq 45^\circ$; -42 dBW/MHz for $\theta > 45^\circ$
☐	For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz.
☐ For the 5.725-5.85 GHz band:	
☐	- Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If $G_{TX} > 6$ dBi, then $PPSD = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz.
PPSD = peak power spectral density that he same method as used to determine the conducted output power shall be used to determine the power spectral density. And power spectral density in dBm/MHz G_{TX} = the maximum transmitting antenna directional gain in dBi.	

3.4.2 Measuring Instruments

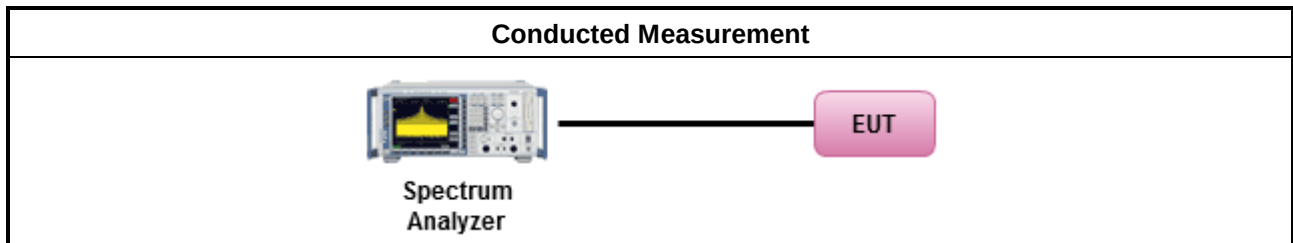
Refer a test equipment and calibration data table in this test report.

**3.4.3 Test Procedures**

Test Method	
Peak power spectral density procedures that the same method as used to determine the conducted output power shall be used to determine the peak power spectral density and use the peak search function on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density shall be measured using below options:	
☐	Refer as FCC KDB 789033 D02, F)5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth
[duty cycle ≥ 98% or external video / power trigger]	
☒	Refer as FCC KDB 789033 D02, clause E Method SA-1 (spectral trace averaging).
☐	Refer as FCC KDB 789033 D02, clause E Method SA-1 Alt. (RMS detection with slow sweep speed)
duty cycle < 98% and average over on/off periods with duty factor	
☒	Refer as FCC KDB 789033 D02, clause E Method SA-2 (spectral trace averaging).
☐	Refer as FCC KDB 789033 D02, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
☒ For conducted measurement.	
If the EUT supports multiple transmit chains using options given below:	
☒	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.
☐	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,
☐	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.
If multiple transmit chains, EIRP PPSD calculation could be following as methods: $PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = PPSD_{total} + DG$	
☐ For radiated measurement.	
Refer as FCC KDB 789033 D02 clause II A.1.F "Antenna-port Conducted versus Radiated Testing"	
Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.	

Test Method	
	Refer as FCC KDB 412172 D01 clause 2.2 for EIRP calculation.

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D



3.5 Unwanted Emissions

3.5.1 Transmitter Unwanted Emissions Limit

Unwanted emissions below 1 GHz and restricted band emissions above 1GHz 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.

Un-restricted band emissions above 1GHz Limit	
Operating Band	Limit
☐ 5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
☒ 5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
☐ 5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
☐ 5.725 - 5.85 GHz	all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Note 1: 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).

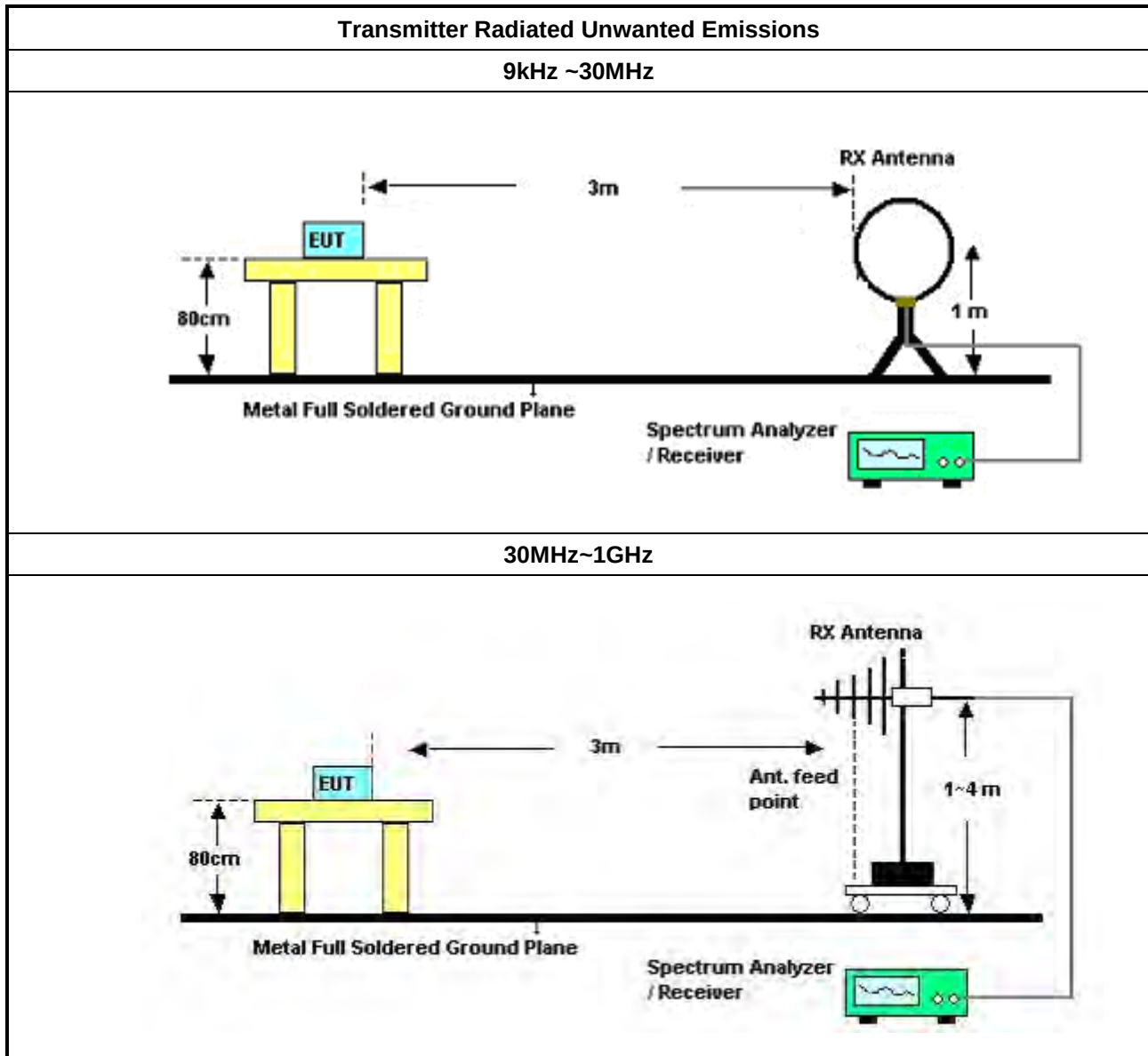
3.5.2 Measuring Instruments

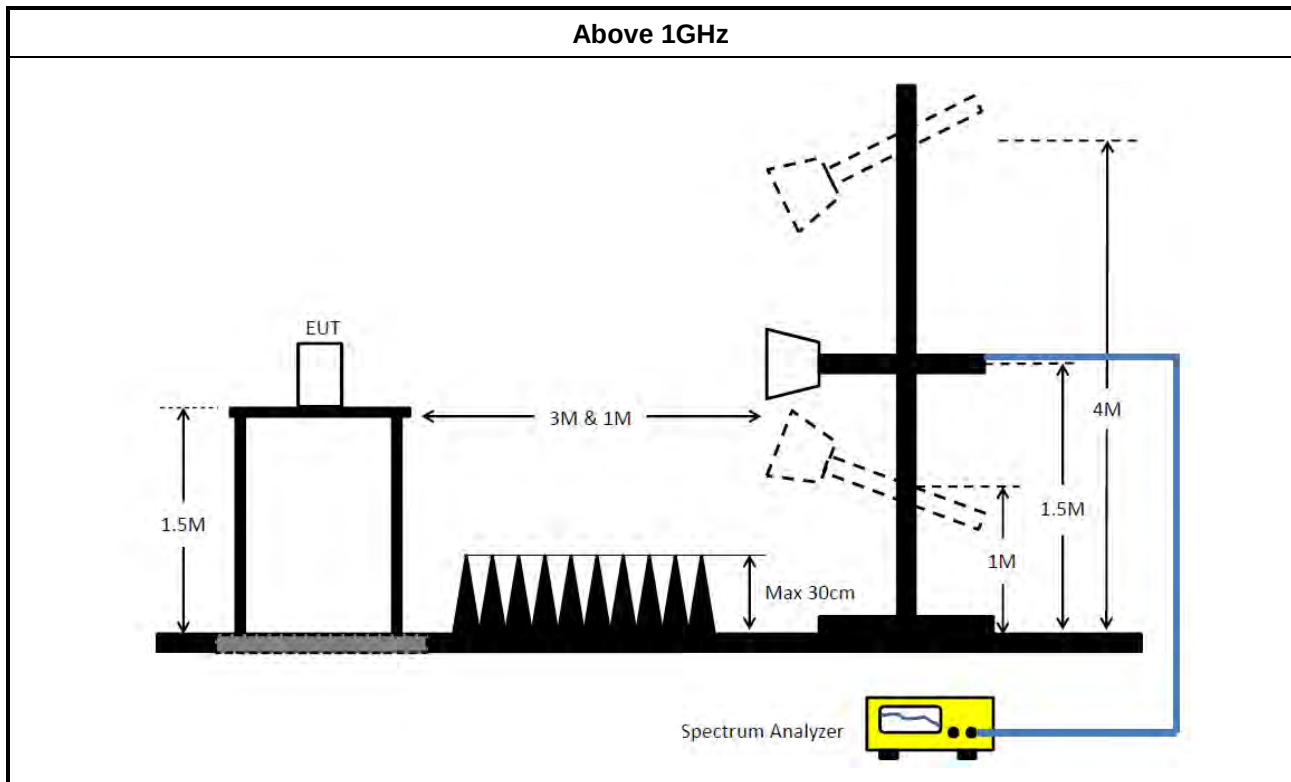
Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

Test Method	
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. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. 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).	
The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].	
For the transmitter unwanted emissions shall be measured using following options below:	
	Refer as FCC KDB 789033 D02, clause G)2) for unwanted emissions into non-restricted bands.
	Refer as FCC KDB 789033 D02, clause G)1) for unwanted emissions into restricted bands.
	☐ Refer as FCC KDB 789033 D02, G)6) Method AD (Trace Averaging).
	☒ Refer as FCC KDB 789033 D02, G)6) Method VB (Reduced VBW).
	☐ Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW $\geq 1/T$, where T is pulse time.
	☐ Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
	☒ Refer as FCC KDB 789033 D02, clause G)5) measurement procedure peak limit.
☐ Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak limit.	
For radiated measurement.	
	Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.
	Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.
	Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
The any unwanted emissions level shall not exceed the fundamental emission level.	
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.	

3.5.4 Test Setup





3.5.5 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.

3.5.6 Transmitter Unwanted Emissions (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 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.

3.5.7 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E



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. 20, 2023	Feb. 19, 2024	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Feb. 16, 2023	Feb. 15, 2024	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Apr. 27, 2023	Apr. 26, 2024	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Feb. 09, 2023	Feb. 08, 2024	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	Oct. 17, 2023	Oct. 16, 2024	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6121	65417	9kHz - 30 MHz	Oct. 13, 2023	Oct. 12, 2024	Radiation (03CH01-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH01-CB	30 MHz ~ 1 GHz	Jan. 16, 2023	Jan. 15, 2024	Radiation (03CH01-CB)
BILOG ANTENNA with 6dB Attenuator	TESEQ & EMCI	CBL6112D N-6-06	37880 & AT-N0609	20MHz ~ 2GHz	Feb. 19, 2023	Feb. 18, 2024	Radiation (03CH01-CB)
Pre-Amplifier	SGH	SGH0301	20230109-2	10M~1GHz	Jun. 23, 2023	Jun. 22, 2024	Radiation (03CH01-CB)
Signal Analyzer	R&S	FSV3044	101437	10kHz ~ 44GHz	Nov. 29, 2022	Nov. 29, 2023	Radiation (03CH01-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 13, 2023	Jun. 12, 2024	Radiation (03CH01-CB)
RF Cable-low	Woken	RG402	Low Cable-16+17	30 MHz ~ 1 GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH01-CB)
RF Cable-low	Woken	RG402	Low Cable-31+32	30 MHz ~ 1 GHz	Nov. 06, 2023	Nov. 05, 2024	Radiation (03CH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH01-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH03-CB	1GHz ~18GHz 3m	May 04, 2023	May 03, 2024	Radiation (03CH03-CB)
Horn Antenna	ETS-Lindgren	3115	6821	750MHz~18GHz	Feb. 03, 2023	Feb. 02, 2024	Radiation (03CH03-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 04, 2023	Sep. 03, 2024	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8449B	3008A02097	1GHz ~ 26.5GHz	Jun. 30, 2023	Jun. 29, 2024	Radiation (03CH03-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 16, 2022	Nov. 15, 2023	Radiation (03CH03-CB)
Pre-Amplifier	SGH	SGH184	20230109-3	18~40GHz	Jan. 13, 2023	Jan. 12, 2024	Radiation (03CH03-CB)
Spectrum Analyzer	R&S	FSP40	100019	9kHz ~ 40GHz	Jun. 12, 2023	Jun. 11, 2024	Radiation (03CH03-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-20+29	1GHz ~ 18GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-29	1GHz ~ 18GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#6	1GHz ~ 40 GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH03-CB)
Signal Analyzer	R&S	FSV40	101904	9kHz ~ 40GHz	Apr. 21, 2023	Apr. 20, 2024	Conducted (TH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	May 29, 2023	May 28, 2024	Conducted (TH01-CB)
Switch	SPTCB	SP-SWI	SWI-01	1~26.5 GHz	Oct. 03, 2023	Oct. 02, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-30	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
Power Sensor	Agilent	E9327A	US40442088	50MHz~18GHz	Feb. 22, 2023	Feb. 21, 2024	Conducted (TH01-CB)
Power Meter	Agilent	E4416A	GB41291199	50MHz~18GHz	Feb. 22, 2023	Feb. 21, 2024	Conducted (TH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH01-CB)

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

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



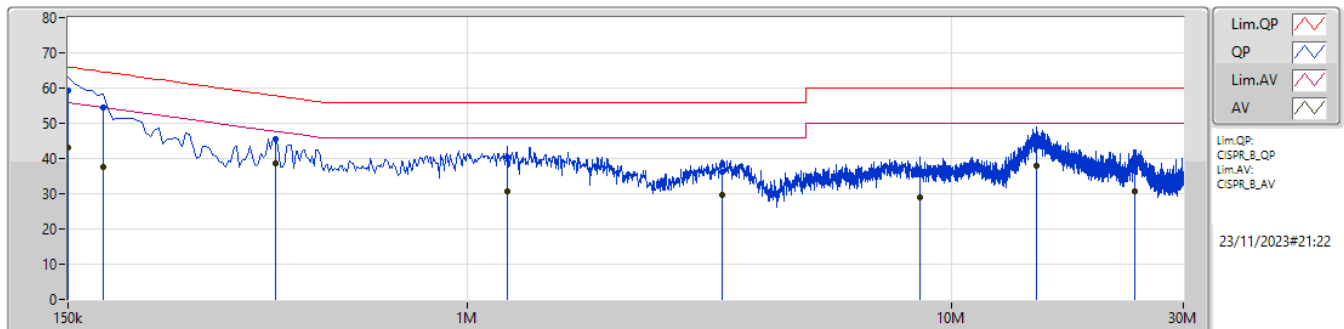
Conducted Emissions at Powerline

Appendix A

Summary

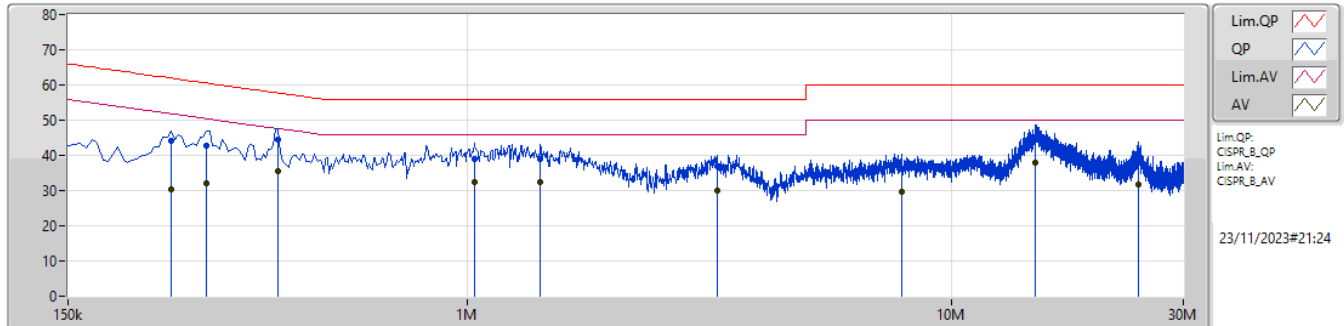
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	150k	59.21	66.00	-6.79	Line

Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	150k	59.21	66.00	-6.79	9.98	Line	"Worst"	49.23	0.09	0.02	9.87						
AV	150k	43.24	56.00	-12.76	9.98	Line	-	33.26	0.09	0.02	9.87						
QP	177k	54.36	64.62	-10.26	9.97	Line	-	44.39	0.08	0.02	9.87						
AV	177k	37.60	54.62	-17.02	9.97	Line	-	27.63	0.08	0.02	9.87						
QP	402k	45.36	57.82	-12.46	10.01	Line	-	35.35	0.09	0.02	9.90						
AV	402k	38.56	47.82	-9.26	10.01	Line	-	28.55	0.09	0.02	9.90						
QP	1.208M	40.40	56.00	-15.60	10.05	Line	-	30.35	0.12	0.03	9.90						
AV	1.208M	30.82	46.00	-15.18	10.05	Line	-	20.77	0.12	0.03	9.90						
QP	3.363M	36.25	56.00	-19.75	10.19	Line	-	26.06	0.16	0.12	9.91						
AV	3.363M	29.73	46.00	-16.27	10.19	Line	-	19.54	0.16	0.12	9.91						
QP	8.61M	35.40	60.00	-24.60	10.32	Line	-	25.08	0.24	0.14	9.94						
AV	8.61M	28.86	50.00	-21.14	10.32	Line	-	18.54	0.24	0.14	9.94						
QP	14.951M	44.85	60.00	-15.15	10.44	Line	-	34.41	0.28	0.18	9.98						
AV	14.951M	38.09	50.00	-11.91	10.44	Line	-	27.65	0.28	0.18	9.98						
QP	23.888M	37.51	60.00	-22.49	10.59	Line	-	26.92	0.31	0.24	10.04						
AV	23.888M	30.82	50.00	-19.18	10.59	Line	-	20.23	0.31	0.24	10.04						

Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	244.5k	44.25	61.95	-17.70	9.96	Neutral	-	34.29	0.07	0.02	9.87						
AV	244.5k	30.29	51.95	-21.66	9.96	Neutral	-	20.33	0.07	0.02	9.87						
QP	289.5k	42.69	60.53	-17.84	9.97	Neutral	-	32.72	0.07	0.02	9.88						
AV	289.5k	31.98	50.53	-18.55	9.97	Neutral	-	22.01	0.07	0.02	9.88						
QP	406.5k	44.46	57.72	-13.26	9.99	Neutral	-	34.47	0.07	0.02	9.90						
AV	406.5k	35.66	47.72	-12.06	9.99	Neutral	"Worst"	25.67	0.07	0.02	9.90						
QP	1.032M	38.88	56.00	-17.12	9.99	Neutral	-	28.89	0.08	0.01	9.90						
AV	1.032M	32.39	46.00	-13.61	9.99	Neutral	-	22.40	0.08	0.01	9.90						
QP	1.415M	38.86	56.00	-17.14	10.03	Neutral	-	28.83	0.09	0.04	9.90						
AV	1.415M	32.55	46.00	-13.45	10.03	Neutral	-	22.52	0.09	0.04	9.90						
QP	3.273M	36.93	56.00	-19.07	10.15	Neutral	-	26.78	0.12	0.12	9.91						
AV	3.273M	29.89	46.00	-16.11	10.15	Neutral	-	19.74	0.12	0.12	9.91						
QP	7.881M	36.15	60.00	-23.85	10.27	Neutral	-	25.88	0.20	0.14	9.93						
AV	7.881M	29.82	50.00	-20.18	10.27	Neutral	-	19.55	0.20	0.14	9.93						
QP	14.838M	44.70	60.00	-15.30	10.42	Neutral	-	34.28	0.26	0.18	9.98						
AV	14.838M	37.93	50.00	-12.07	10.42	Neutral	-	27.51	0.26	0.18	9.98						
QP	24.212M	38.43	60.00	-21.57	10.62	Neutral	-	27.81	0.34	0.24	10.04						
AV	24.212M	31.61	50.00	-18.39	10.62	Neutral	-	20.99	0.34	0.24	10.04						

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	19.36M	16.435M	16M4D1D	19.03M	16.364M
802.11a_Nss1,(6Mbps)_1TX	20.185M	16.43M	16M4D1D	18.975M	16.314M
802.11a_Nss1,(6Mbps)_2TX	20.185M	16.463M	16M5D1D	19.03M	16.309M
802.11ax HEW20_Nss1,(MCS0)_1TX	20.845M	18.972M	19M0D1D	20.35M	18.88M
802.11ax HEW20_Nss1,(MCS0)_1TX	20.515M	19.051M	19M1D1D	20.35M	18.893M
802.11ax HEW20_Nss1,(MCS0)_2TX	21.67M	18.972M	19M0D1D	19.8M	18.894M
802.11ax HEW40_Nss1,(MCS0)_1TX	40.04M	37.789M	37M8D1D	39.27M	37.746M
802.11ax HEW40_Nss1,(MCS0)_1TX	39.82M	37.753M	37M8D1D	38.83M	37.712M
802.11ax HEW40_Nss1,(MCS0)_2TX	39.6M	37.756M	37M8D1D	39.05M	37.591M
802.11ax HEW80_Nss1,(MCS0)_1TX	80.08M	76.814M	76M8D1D	80.08M	76.814M
802.11ax HEW80_Nss1,(MCS0)_1TX	80.08M	76.999M	77M0D1D	80.08M	76.999M
802.11ax HEW80_Nss1,(MCS0)_2TX	80.96M	77.426M	77M4D1D	80.08M	77.186M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
 Max-OBW = Maximum 99% occupied bandwidth;
 Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
 Min-OBW = Minimum 99% occupied bandwidth

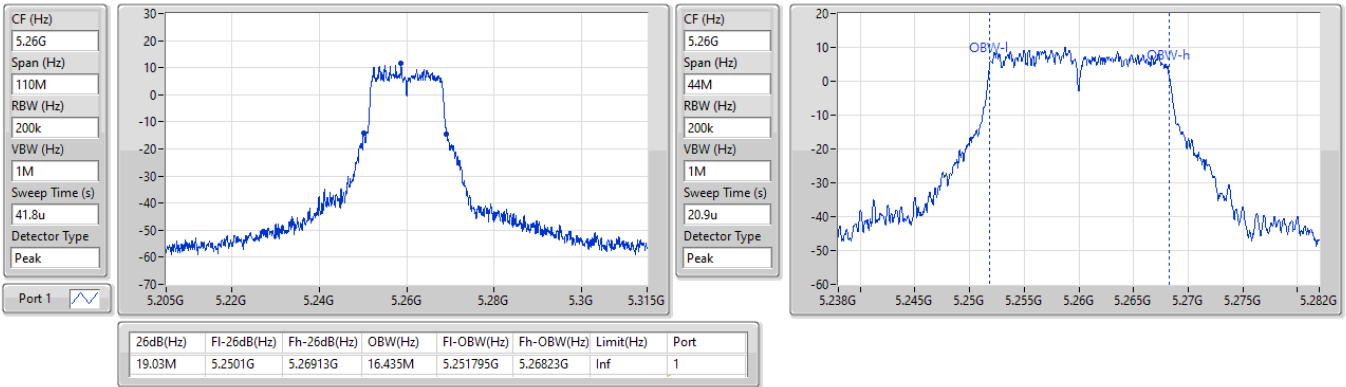
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-
5260MHz	Pass	Inf	19.03M	16.435M	-	-
5300MHz	Pass	Inf	19.25M	16.364M	-	-
5320MHz	Pass	Inf	19.36M	16.408M	-	-
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-	-
5260MHz	Pass	Inf	20.35M	18.96M	-	-
5300MHz	Pass	Inf	20.35M	18.88M	-	-
5320MHz	Pass	Inf	20.845M	18.972M	-	-
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-	-	-
5270MHz	Pass	Inf	40.04M	37.746M	-	-
5310MHz	Pass	Inf	39.27M	37.789M	-	-
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-	-	-	-
5290MHz	Pass	Inf	80.08M	76.814M	-	-
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-
5260MHz	Pass	Inf	-	-	19.36M	16.351M
5300MHz	Pass	Inf	-	-	20.185M	16.43M
5320MHz	Pass	Inf	-	-	18.975M	16.314M
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-	-
5260MHz	Pass	Inf	-	-	20.405M	18.893M
5300MHz	Pass	Inf	-	-	20.35M	18.915M
5320MHz	Pass	Inf	-	-	20.515M	19.051M
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-	-	-
5270MHz	Pass	Inf	-	-	39.82M	37.712M
5310MHz	Pass	Inf	-	-	38.83M	37.753M
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-	-	-	-
5290MHz	Pass	Inf	-	-	80.08M	76.999M
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5260MHz	Pass	Inf	19.03M	16.463M	19.855M	16.309M
5300MHz	Pass	Inf	20.185M	16.371M	19.745M	16.376M
5320MHz	Pass	Inf	19.635M	16.379M	19.855M	16.367M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	Inf	20.68M	18.948M	20.625M	18.894M
5300MHz	Pass	Inf	19.8M	18.965M	20.35M	18.926M
5320MHz	Pass	Inf	21.67M	18.972M	21.01M	18.934M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5270MHz	Pass	Inf	39.38M	37.689M	39.38M	37.602M
5310MHz	Pass	Inf	39.6M	37.756M	39.05M	37.591M
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5290MHz	Pass	Inf	80.08M	77.426M	80.96M	77.186M

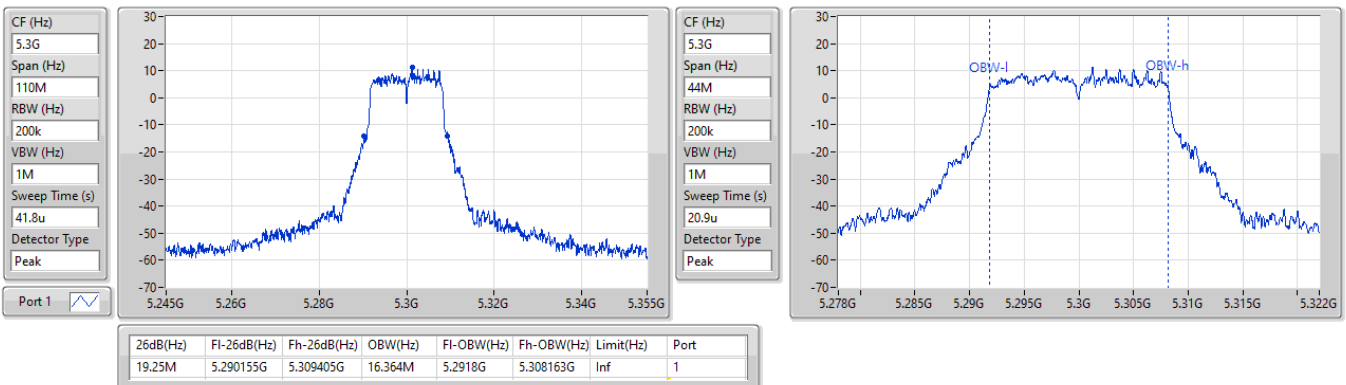
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

5.25-5.35GHz_802.11a_Nss1,(6Mbps)_1TX
EBW
5260MHz

20/10/2023

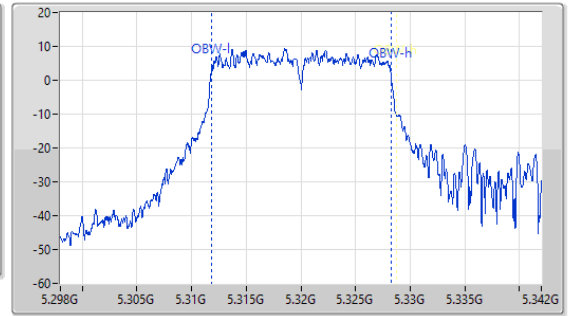
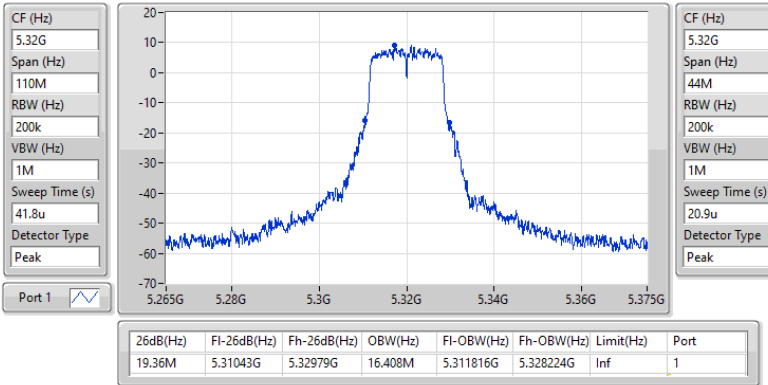

5.25-5.35GHz_802.11a_Nss1,(6Mbps)_1TX
EBW
5300MHz

20/10/2023

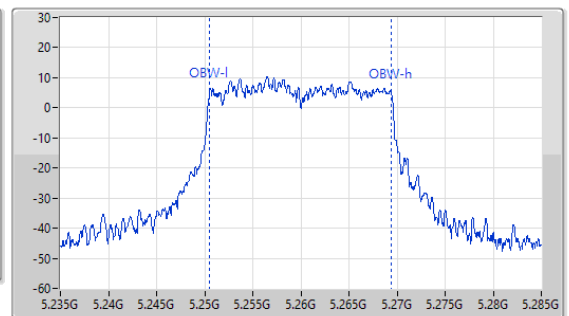
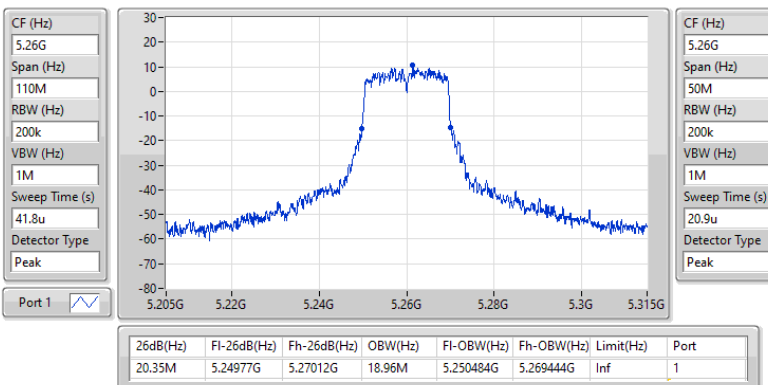


5.25-5.35GHz_802.11a_Nss1,(6Mbps)_1TX
EBW
5320MHz

20/10/2023

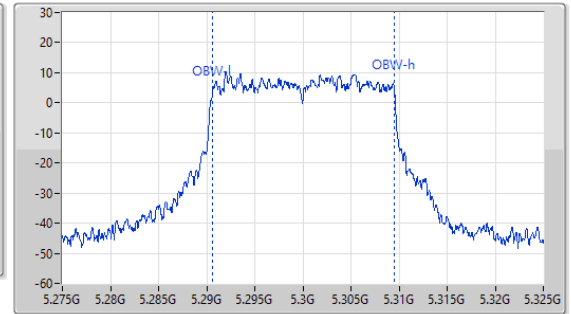
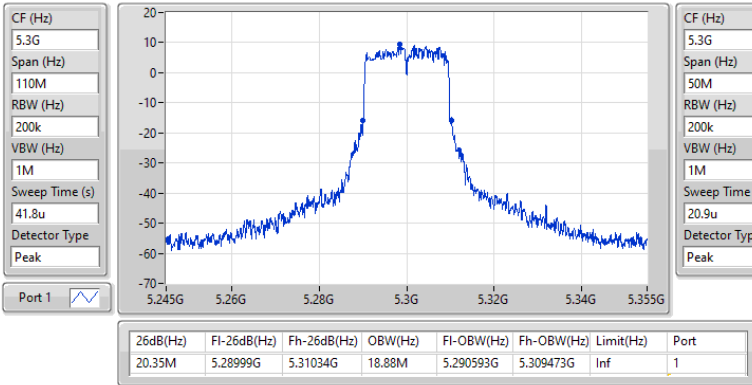

5.25-5.35GHz_802.11ax_HEW20_Nss1,(MCS0)_1TX
EBW
5260MHz

20/10/2023

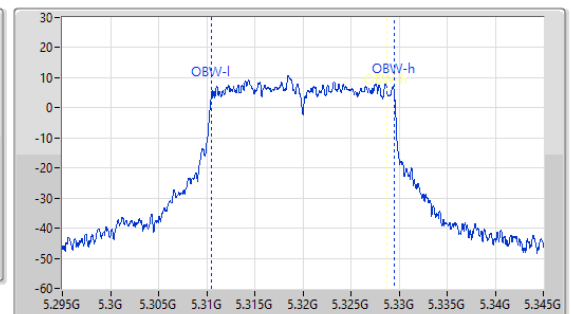
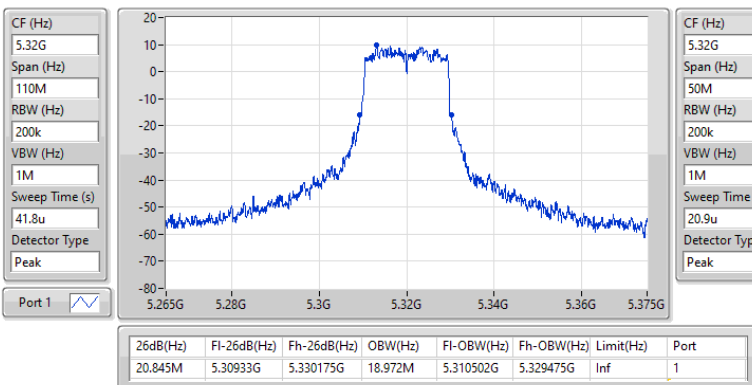


5.25-5.35GHz_802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5300MHz

21/10/2023

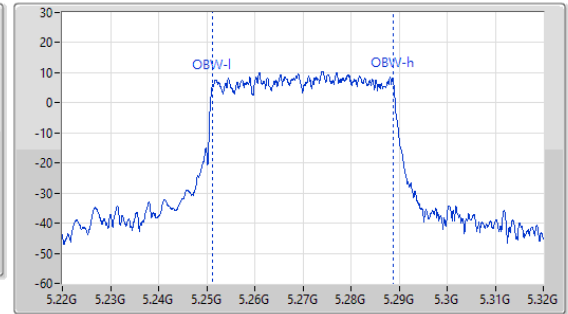
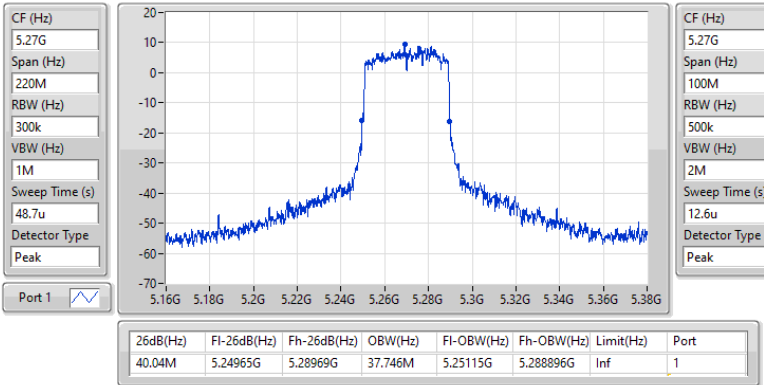

5.25-5.35GHz_802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5320MHz

21/10/2023

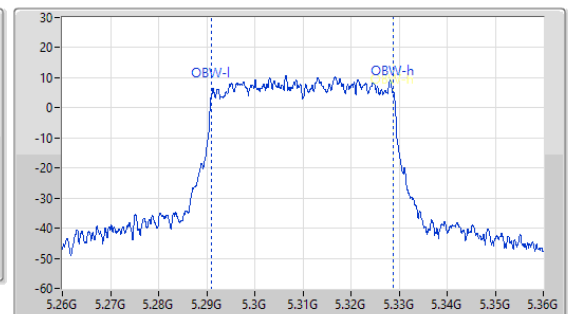
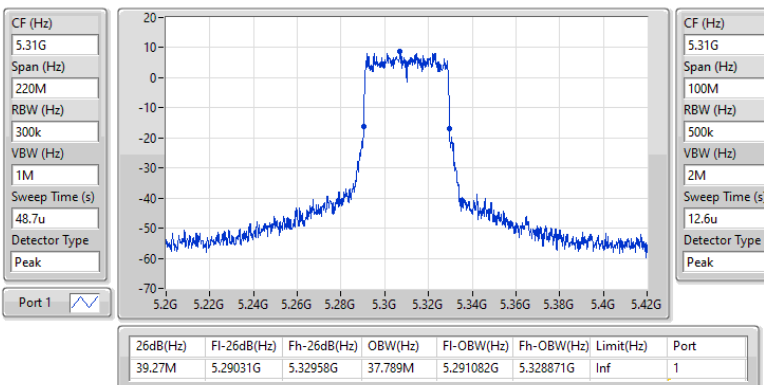


5.25-5.35GHz_802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5270MHz

21/10/2023

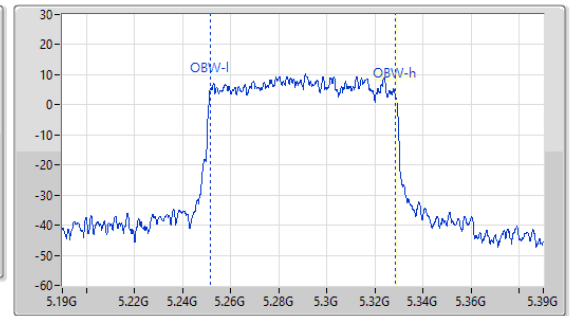
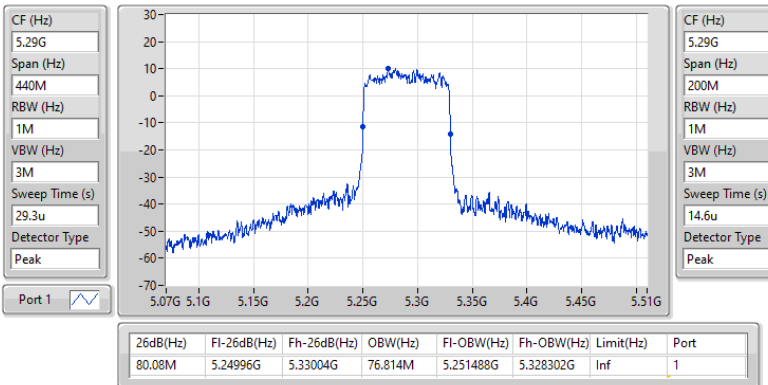

5.25-5.35GHz_802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5310MHz

21/10/2023

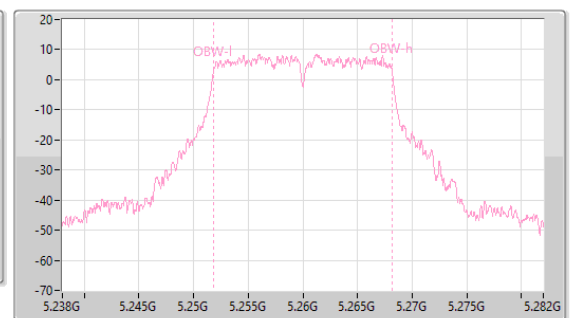
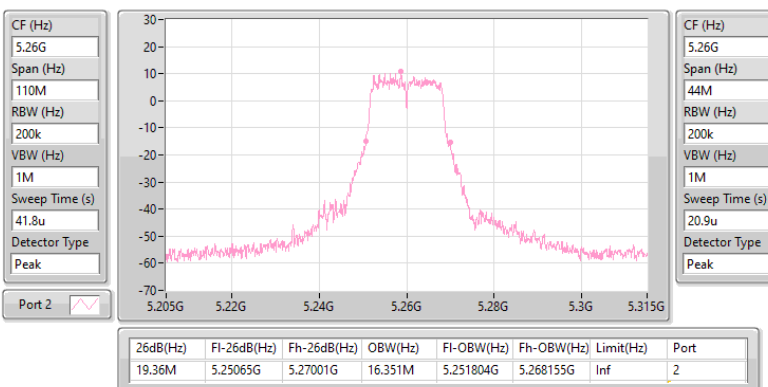


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EBW
5290MHz

21/10/2023

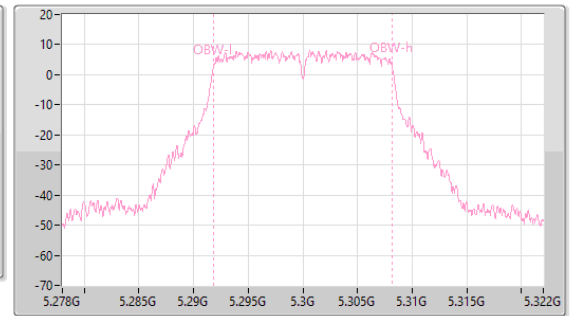
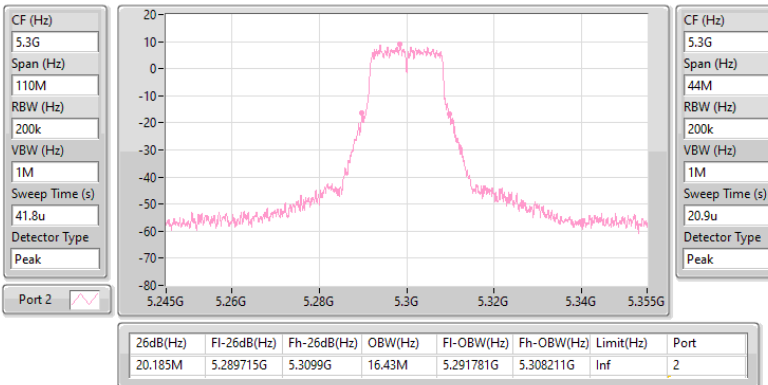

5.25-5.35GHz_802.11a_Nss1,(6Mbps)_1TX
EBW
5260MHz

21/10/2023

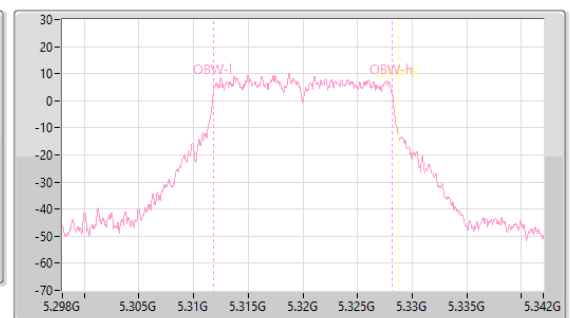
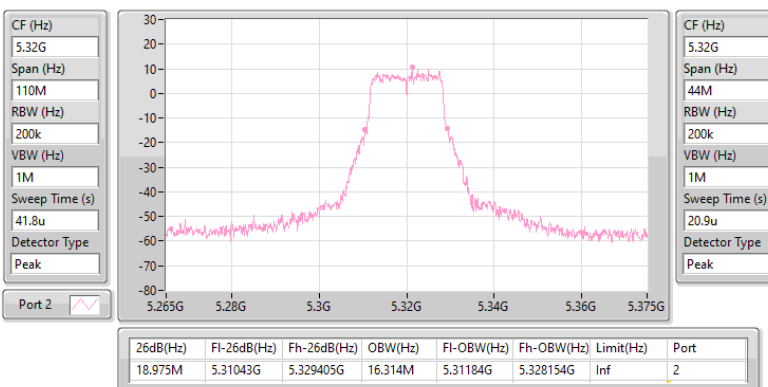


5.25-5.35GHz_802.11a_Nss1,(6Mbps)_1TX
EBW
5300MHz

21/10/2023

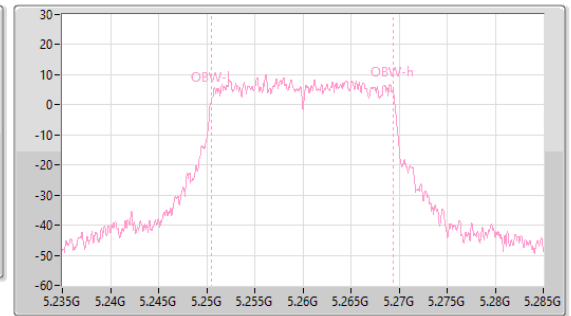
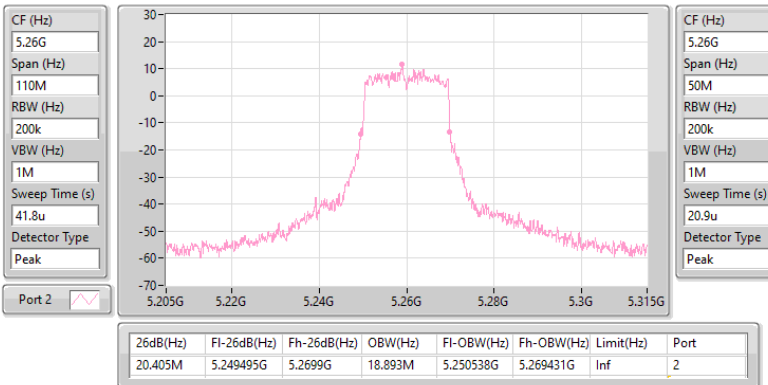

5.25-5.35GHz_802.11a_Nss1,(6Mbps)_1TX
EBW
5320MHz

21/10/2023

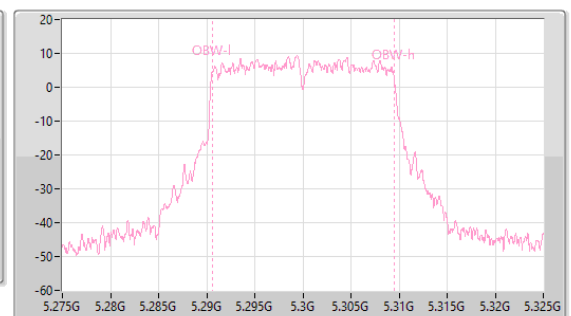
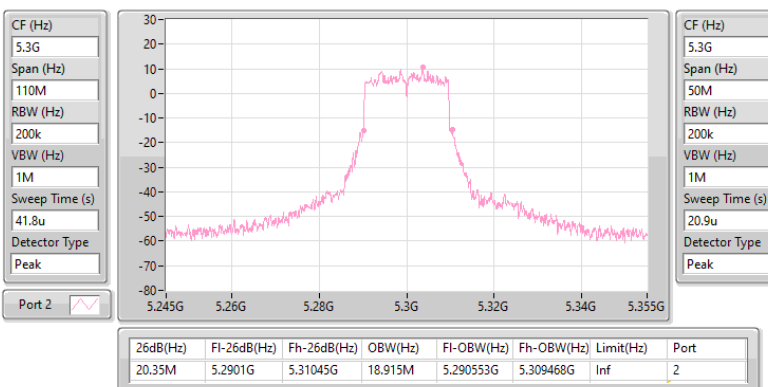


5.25-5.35GHz_802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5260MHz

21/10/2023

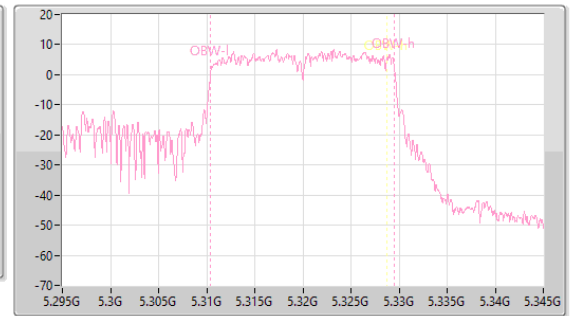
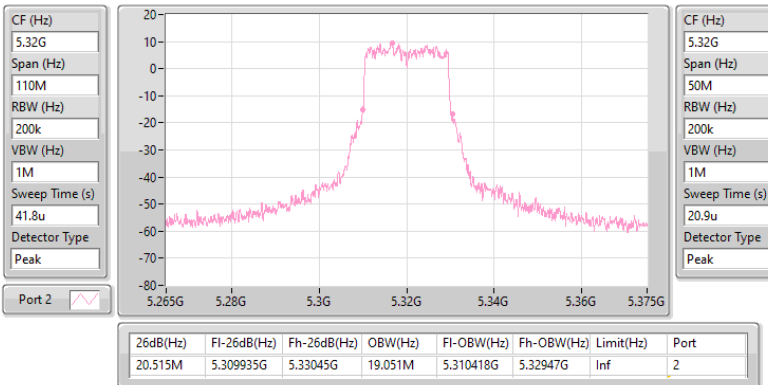

5.25-5.35GHz_802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5300MHz

21/10/2023

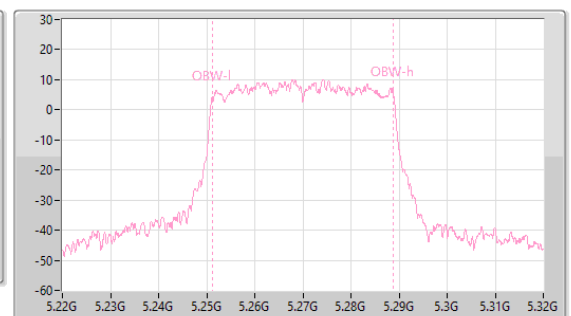
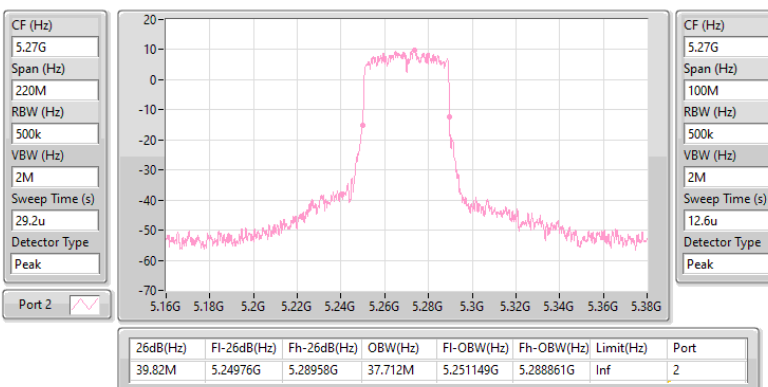


5.25-5.35GHz_802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
5320MHz

21/10/2023

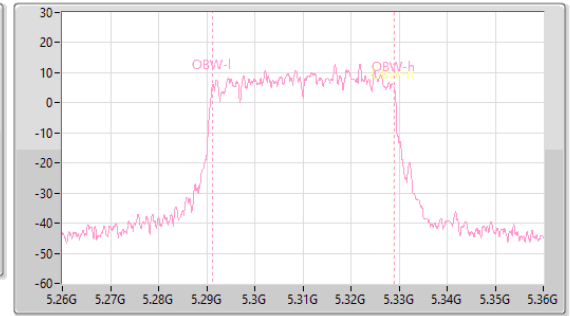
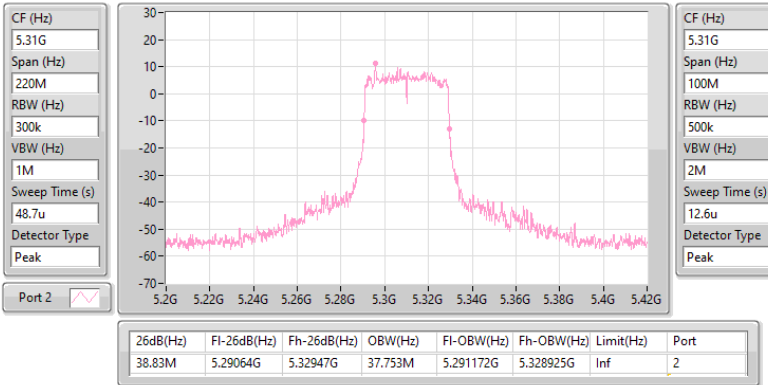

5.25-5.35GHz_802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5270MHz

21/10/2023

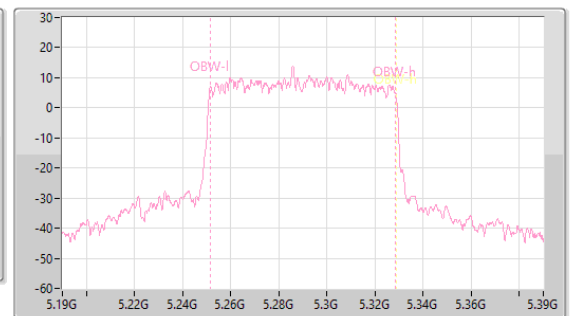
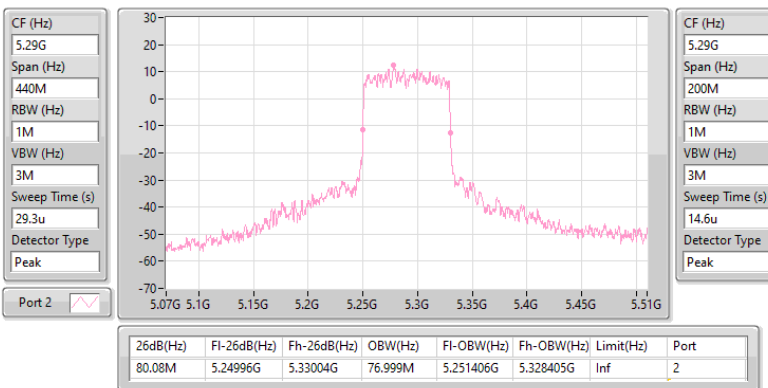


5.25-5.35GHz_802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
5310MHz

21/10/2023

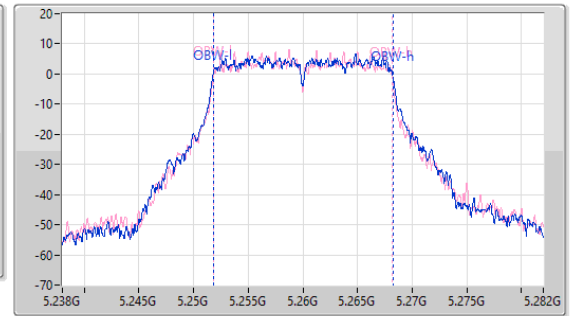
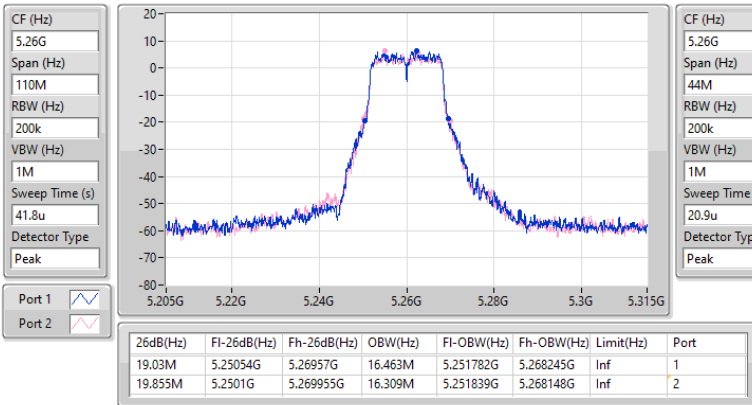

5.25-5.35GHz_802.11ax HEW80_Nss1,(MCS0)_1TX
EBW
5290MHz

21/10/2023

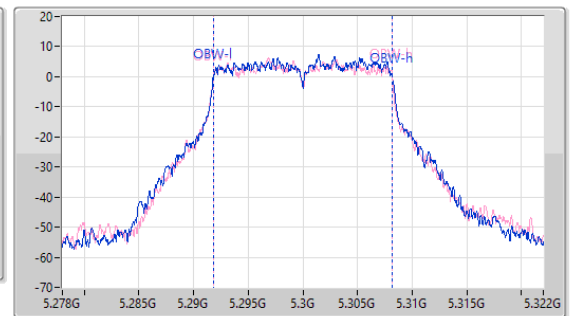
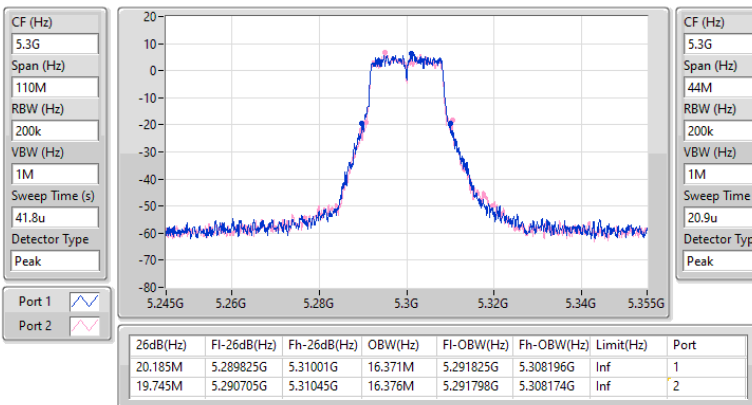


5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX
EBW
5260MHz

23/10/2023

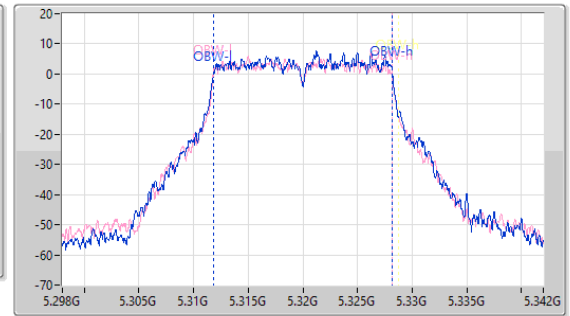
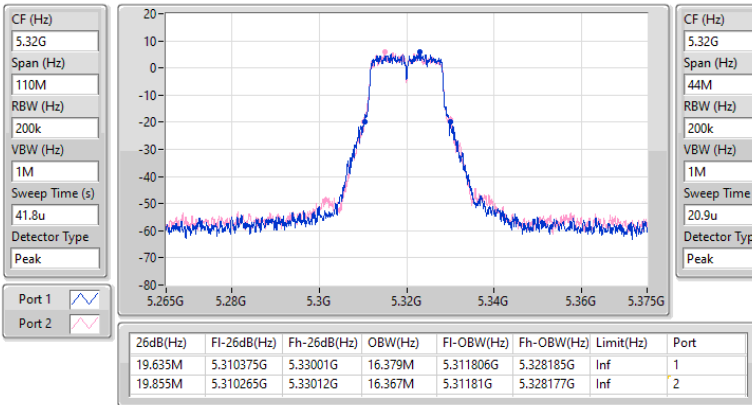

5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX
EBW
5300MHz

23/10/2023

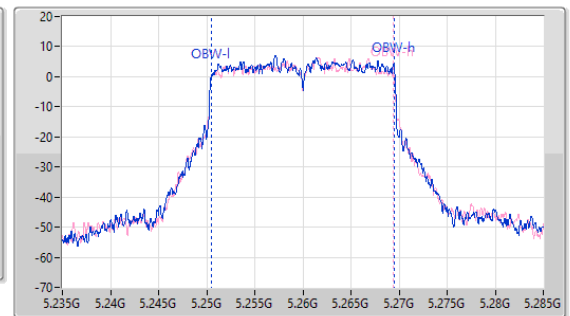
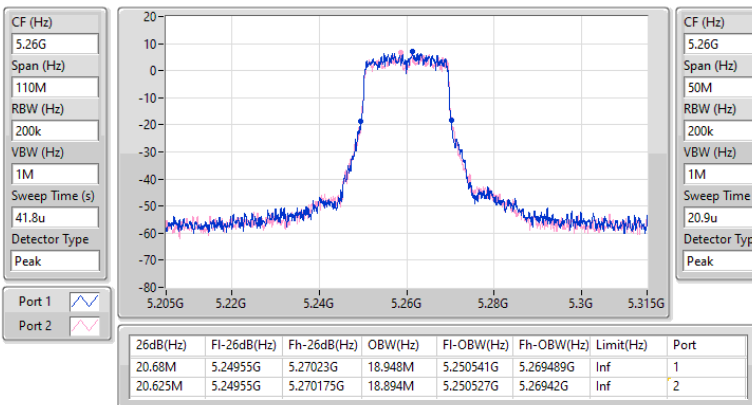


5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX
EBW
5320MHz

23/10/2023

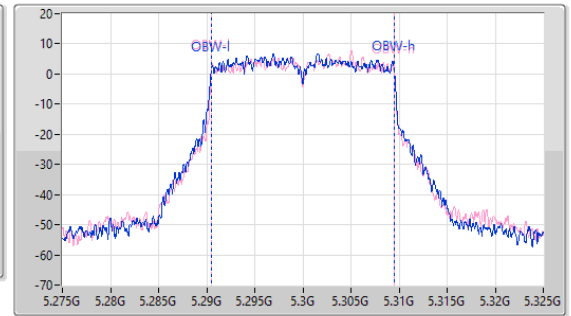
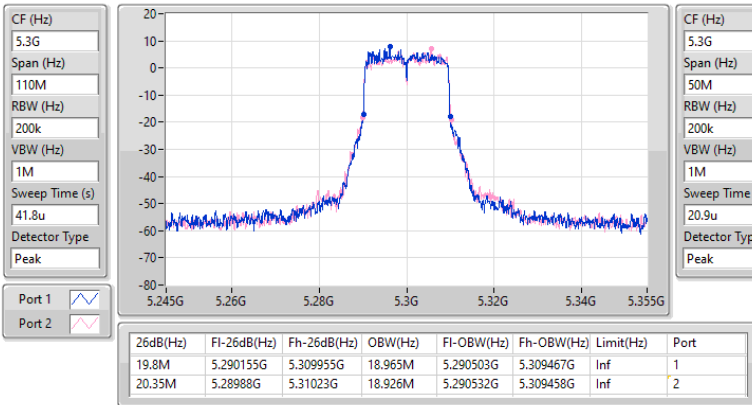

5.25-5.35GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX
EBW
5260MHz

23/10/2023

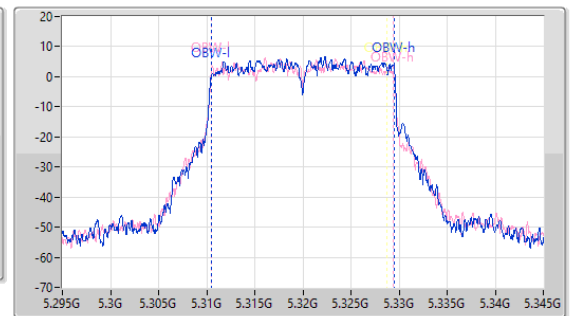
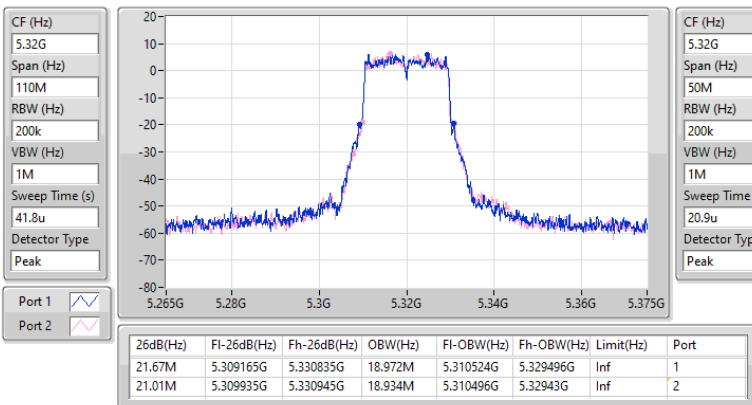


5.25-5.35GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX
EBW
5300MHz

23/10/2023

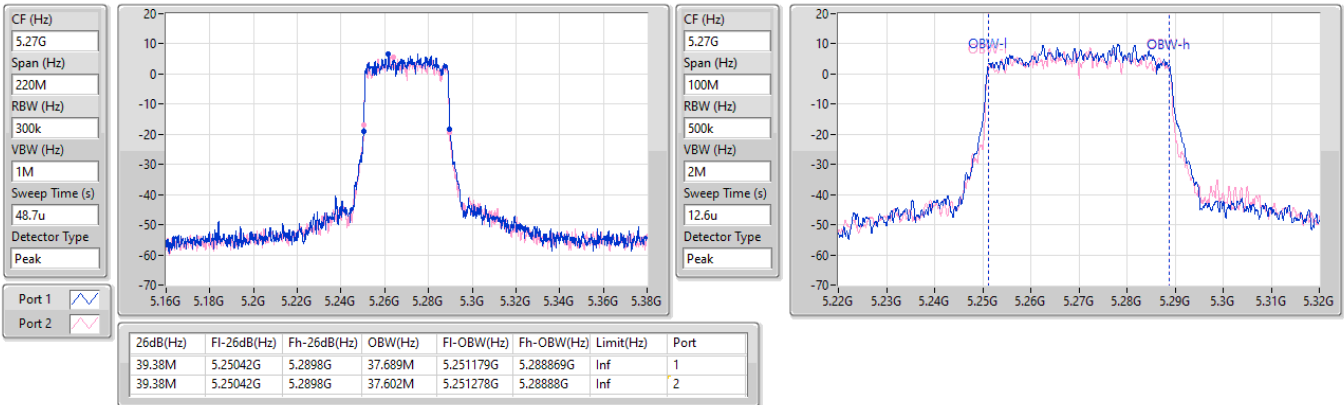

5.25-5.35GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX
EBW
5320MHz

23/10/2023

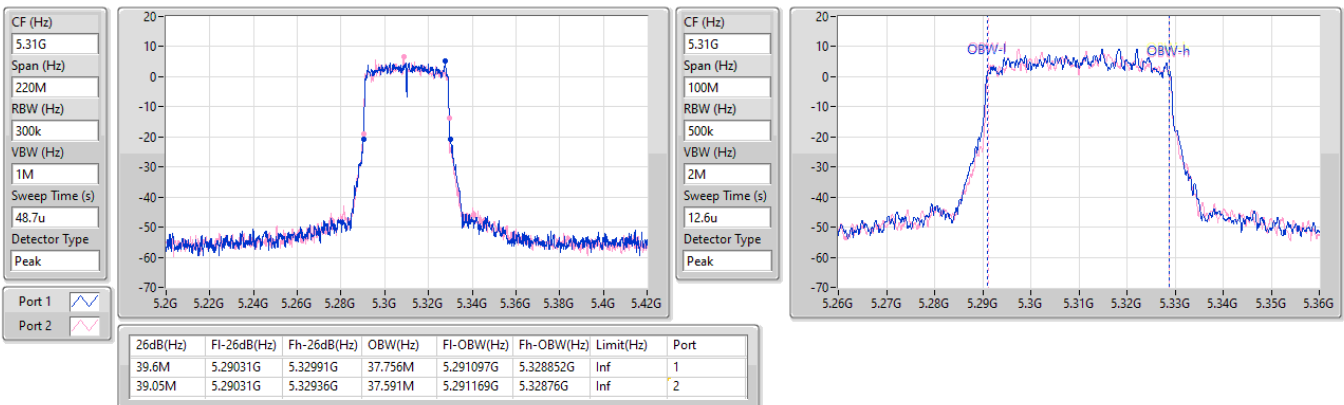


5.25-5.35GHz_802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
5270MHz

23/10/2023


5.25-5.35GHz_802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
5310MHz

23/10/2023

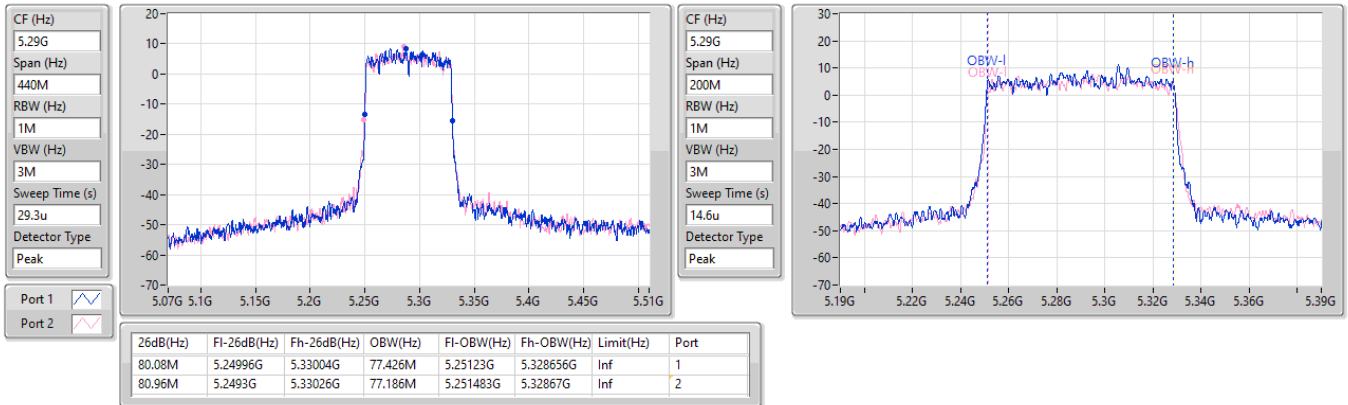


5.25-5.35GHz_802.11ax_HEW80_Nss1,(MCS0)_2TX

EBW

5290MHz

23/10/2023



Summary

Mode	Total Power (dBm)	Total Power (W)
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	20.46	0.11117
802.11a_Nss1,(6Mbps)_1TX	20.36	0.10864
802.11a_Nss1,(6Mbps)_2TX	20.32	0.10765
802.11ax HEW20_Nss1,(MCS0)_1TX	20.85	0.12162
802.11ax HEW20_Nss1,(MCS0)_1TX	20.70	0.11749
802.11ax HEW20_Nss1,(MCS0)_2TX	20.80	0.12023
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	20.80	0.12023
802.11ax HEW40_Nss1,(MCS0)_1TX	20.70	0.11749
802.11ax HEW40_Nss1,(MCS0)_1TX	20.82	0.12078
802.11ax HEW40_Nss1,(MCS0)_2TX	20.89	0.12274
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	20.89	0.12274
802.11ax HEW80_Nss1,(MCS0)_1TX	19.95	0.09886
802.11ax HEW80_Nss1,(MCS0)_1TX	20.83	0.12106
802.11ax HEW80_Nss1,(MCS0)_2TX	20.85	0.12162
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	20.85	0.12162

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-
5260MHz	Pass	9.00	20.44	-	20.44	20.79
5300MHz	Pass	9.00	20.46	-	20.46	20.84
5320MHz	Pass	9.00	20.29	-	20.29	20.87
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-	-
5260MHz	Pass	9.00	20.70	-	20.70	20.98
5300MHz	Pass	9.00	20.72	-	20.72	20.98
5320MHz	Pass	9.00	20.85	-	20.85	20.98
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-	-	-
5270MHz	Pass	9.00	20.70	-	20.70	20.98
5310MHz	Pass	9.00	20.20	-	20.20	20.98
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-	-	-	-
5290MHz	Pass	9.00	19.95	-	19.95	20.98
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-
5260MHz	Pass	9.00	-	20.36	20.36	20.87
5300MHz	Pass	9.00	-	19.68	19.68	20.98
5320MHz	Pass	9.00	-	20.21	20.21	20.78
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-	-
5260MHz	Pass	9.00	-	20.70	20.70	20.98
5300MHz	Pass	9.00	-	20.65	20.65	20.98
5320MHz	Pass	9.00	-	20.62	20.62	20.98
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-	-	-
5270MHz	Pass	9.00	-	20.54	20.54	20.98
5310MHz	Pass	9.00	-	20.82	20.82	20.98
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-	-	-	-
5290MHz	Pass	9.00	-	20.83	20.83	20.98
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5260MHz	Pass	9.00	17.50	17.11	20.32	20.79
5300MHz	Pass	9.00	17.48	17.04	20.28	20.95
5320MHz	Pass	9.00	16.99	17.02	20.02	20.93
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	9.00	17.99	17.58	20.80	20.98
5300MHz	Pass	9.00	17.99	17.56	20.79	20.97
5320MHz	Pass	9.00	17.69	17.56	20.64	20.98
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5270MHz	Pass	9.00	18.20	17.53	20.89	20.98
5310MHz	Pass	9.00	17.93	17.63	20.79	20.98
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5290MHz	Pass	9.00	18.02	17.66	20.85	20.98
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	9.00	17.99	17.58	20.80	20.98
5300MHz	Pass	9.00	17.99	17.56	20.79	20.98
5320MHz	Pass	9.00	17.69	17.56	20.64	20.98
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5270MHz	Pass	9.00	18.20	17.53	20.89	20.98
5310MHz	Pass	9.00	17.93	17.63	20.79	20.98
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5290MHz	Pass	9.00	18.02	17.66	20.85	20.98

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

Summary

Mode	PD (dBm/RBW)
5.25-5.35GHz	-
802.11a_Nss1,(6Mbps)_1TX	7.98
802.11a_Nss1,(6Mbps)_1TX	7.61
802.11a_Nss1,(6Mbps)_2TX	7.81
802.11ax HEW20_Nss1,(MCS0)_1TX	7.44
802.11ax HEW20_Nss1,(MCS0)_1TX	7.26
802.11ax HEW20_Nss1,(MCS0)_2TX	7.73
802.11ax HEW40_Nss1,(MCS0)_1TX	4.50
802.11ax HEW40_Nss1,(MCS0)_1TX	4.73
802.11ax HEW40_Nss1,(MCS0)_2TX	4.95
802.11ax HEW80_Nss1,(MCS0)_1TX	0.90
802.11ax HEW80_Nss1,(MCS0)_1TX	1.56
802.11ax HEW80_Nss1,(MCS0)_2TX	1.82

RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-
5260MHz	Pass	9.00	7.96	-	7.96	8.00
5300MHz	Pass	9.00	7.98	-	7.98	8.00
5320MHz	Pass	9.00	7.80	-	7.80	8.00
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-	-
5260MHz	Pass	9.00	7.44	-	7.44	8.00
5300MHz	Pass	9.00	7.42	-	7.42	8.00
5320MHz	Pass	9.00	7.44	-	7.44	8.00
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-	-	-
5270MHz	Pass	9.00	4.50	-	4.50	8.00
5310MHz	Pass	9.00	4.17	-	4.17	8.00
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-	-	-	-
5290MHz	Pass	9.00	0.90	-	0.90	8.00
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-
5260MHz	Pass	9.00	-	7.56	7.56	8.00
5300MHz	Pass	9.00	-	7.61	7.61	8.00
5320MHz	Pass	9.00	-	7.53	7.53	8.00
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-	-
5260MHz	Pass	9.00	-	7.26	7.26	8.00
5300MHz	Pass	9.00	-	7.25	7.25	8.00
5320MHz	Pass	9.00	-	7.17	7.17	8.00
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-	-	-
5270MHz	Pass	9.00	-	4.30	4.30	8.00
5310MHz	Pass	9.00	-	4.73	4.73	8.00
802.11ax HEW80_Nss1,(MCS0)_1TX	-	-	-	-	-	-
5290MHz	Pass	9.00	-	1.56	1.56	8.00
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5260MHz	Pass	9.00	5.01	4.73	7.80	8.00
5300MHz	Pass	9.00	5.01	4.69	7.81	8.00
5320MHz	Pass	9.00	4.68	4.46	7.52	8.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	9.00	4.97	4.48	7.65	8.00
5300MHz	Pass	9.00	5.00	4.71	7.73	8.00
5320MHz	Pass	9.00	4.69	4.52	7.47	8.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5270MHz	Pass	9.00	2.29	1.84	4.95	8.00
5310MHz	Pass	9.00	1.86	1.58	4.61	8.00
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5290MHz	Pass	9.00	-0.85	-1.28	1.82	8.00

DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

5.25-5.35GHz_802.11a_Nss1,(6Mbps)_1TX

PSD

5260MHz

20/10/2023

CF (Hz)
5.26G

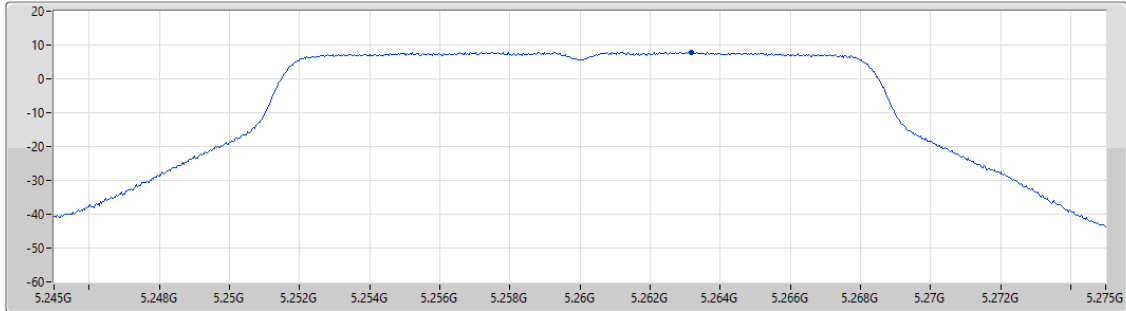
Span (Hz)
30M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
20.07

Detector Type
RMS



Port 1

Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
7.96	7.96	7.96

5.25-5.35GHz_802.11a_Nss1,(6Mbps)_1TX

PSD

5300MHz

20/10/2023

CF (Hz)
5.3G

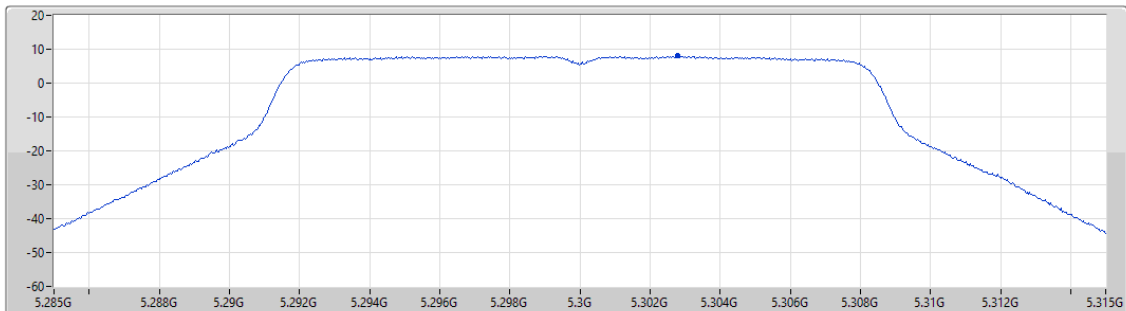
Span (Hz)
30M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
20.07

Detector Type
RMS



Port 1

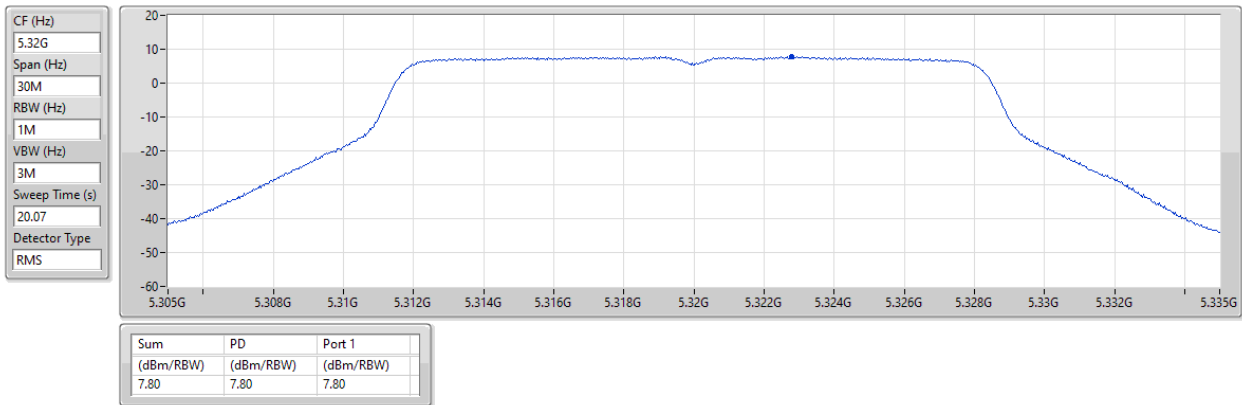
Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
7.98	7.98	7.98

5.25-5.35GHz_802.11a_Nss1,(6Mbps)_1TX

PSD

5320MHz

20/10/2023

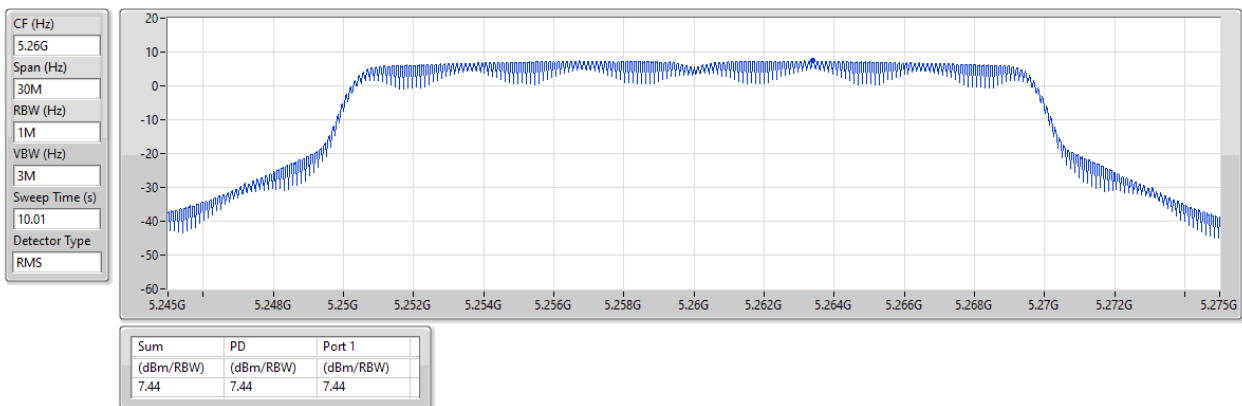


5.25-5.35GHz_802.11ax_HEW20_Nss1,(MCS0)_1TX

PSD

5260MHz

20/10/2023



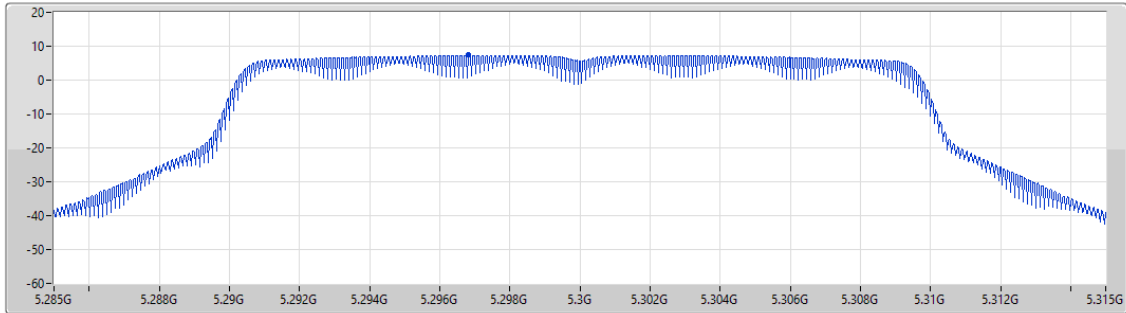
5.25-5.35GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

PSD

5300MHz

21/10/2023

CF (Hz)
5.3G
Span (Hz)
30M
RBW (Hz)
1M
VBW (Hz)
3M
Sweep Time (s)
10.01
Detector Type
RMS



Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
7.42	7.42	7.42

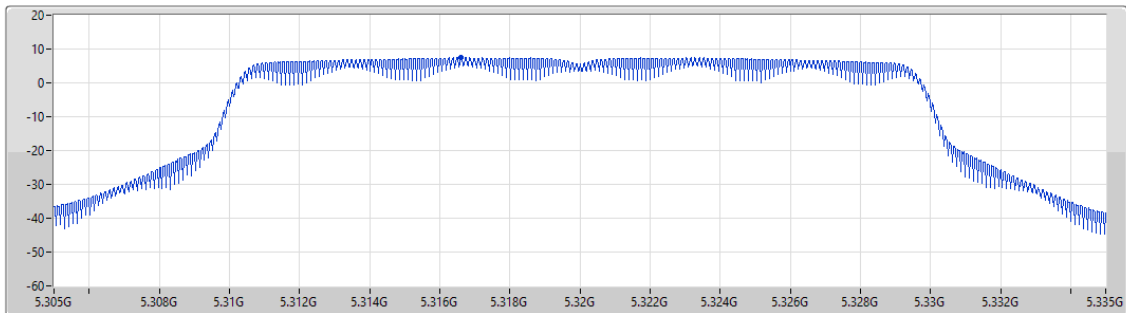
5.25-5.35GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

PSD

5320MHz

21/10/2023

CF (Hz)
5.32G
Span (Hz)
30M
RBW (Hz)
1M
VBW (Hz)
3M
Sweep Time (s)
10.01
Detector Type
RMS



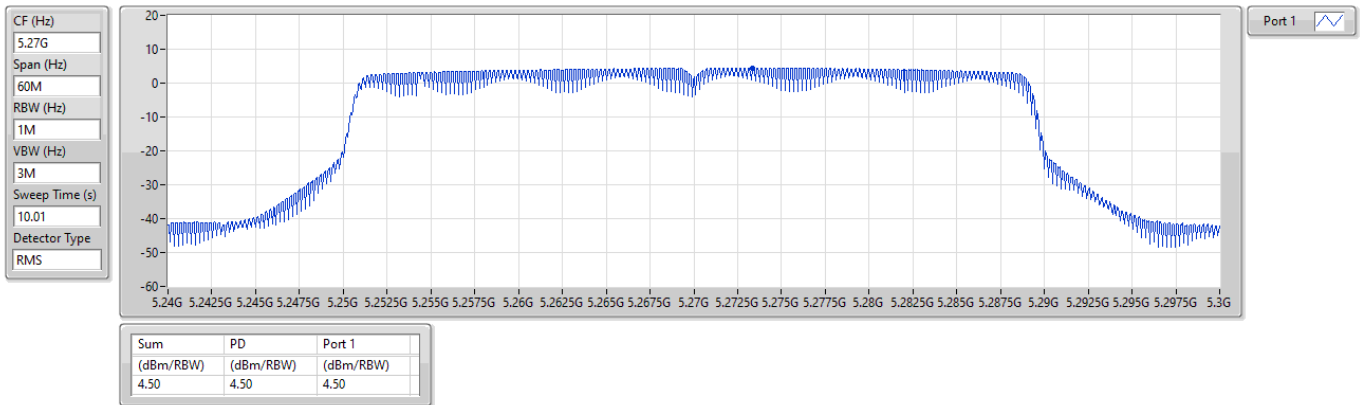
Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
7.44	7.44	7.44

5.25-5.35GHz_802.11ax_HEW40_Nss1,(MCS0)_1TX

PSD

5270MHz

21/10/2023

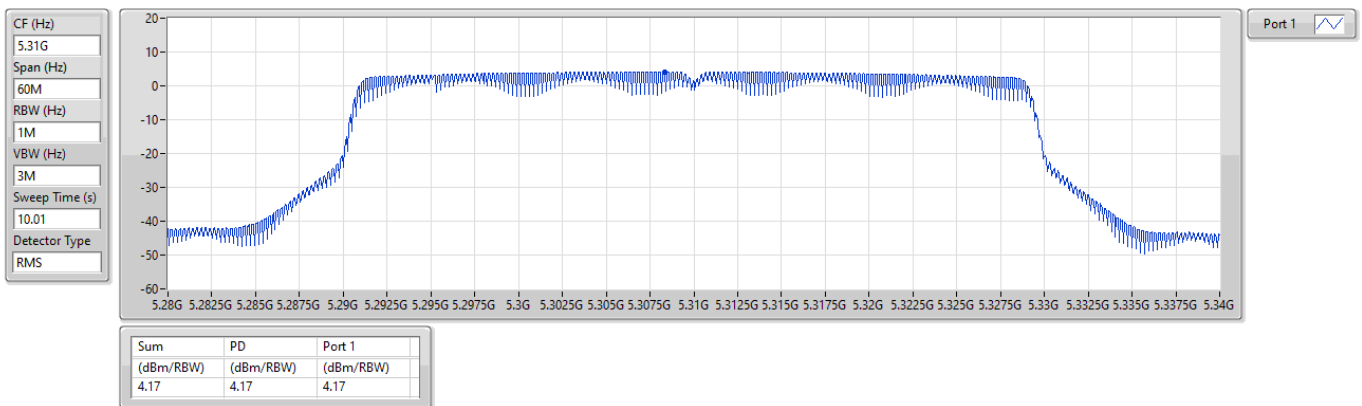


5.25-5.35GHz_802.11ax_HEW40_Nss1,(MCS0)_1TX

PSD

5310MHz

21/10/2023



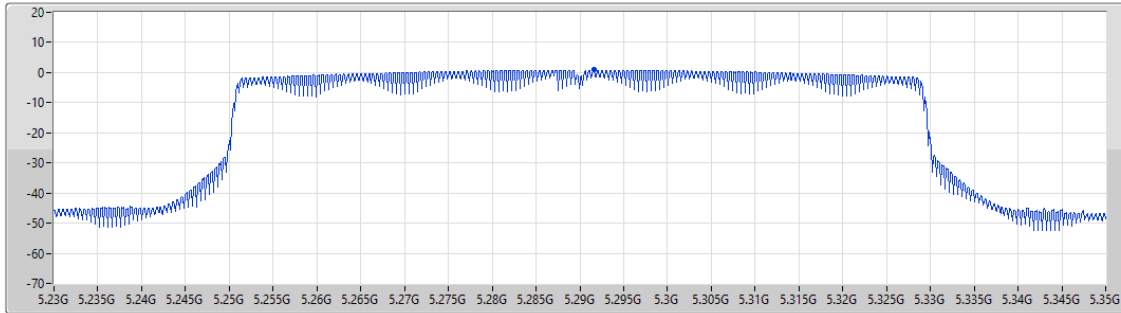
5.25-5.35GHz_802.11ax_HEW80_Nss1,(MCS0)_1TX

PSD

5290MHz

21/10/2023

CF (Hz)
5.29G
Span (Hz)
120M
RBW (Hz)
1M
VBW (Hz)
3M
Sweep Time (s)
10.01
Detector Type
RMS



Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
0.90	0.90	0.90

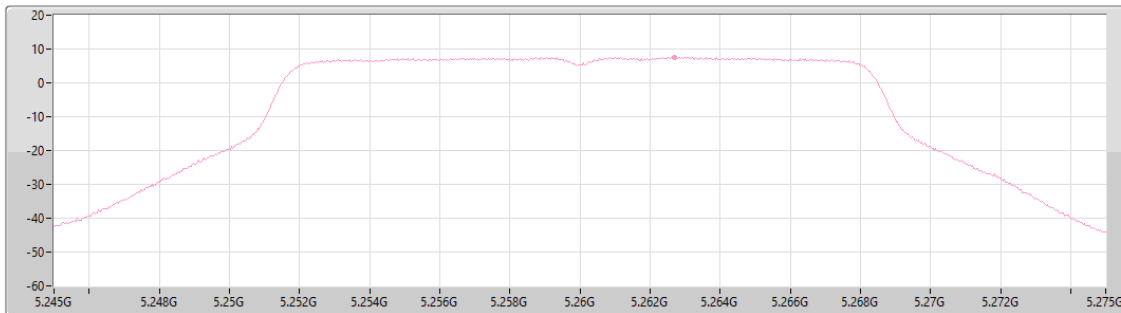
5.25-5.35GHz_802.11a_Nss1,(6Mbps)_1TX

PSD

5260MHz

21/10/2023

CF (Hz)
5.26G
Span (Hz)
30M
RBW (Hz)
1M
VBW (Hz)
3M
Sweep Time (s)
10.01
Detector Type
RMS



Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
7.56	7.56	-	7.56

5.25-5.35GHz_802.11a_Nss1,(6Mbps)_1TX

PSD

5300MHz

21/10/2023

CF (Hz)
5.3G

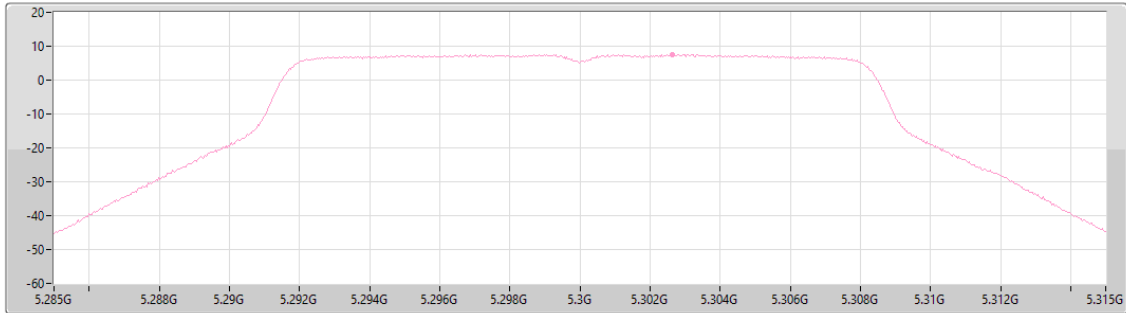
Span (Hz)
30M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
10.01

Detector Type
RMS



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.61	7.61	-	7.61

5.25-5.35GHz_802.11a_Nss1,(6Mbps)_1TX

PSD

5320MHz

21/10/2023

CF (Hz)
5.32G

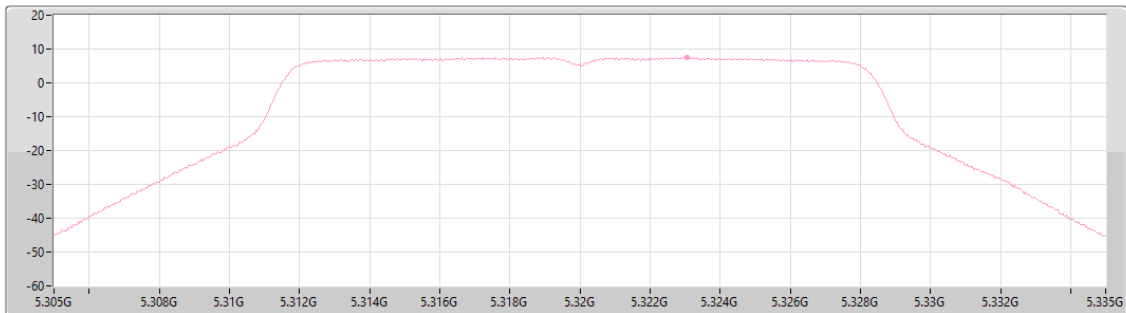
Span (Hz)
30M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
10.01

Detector Type
RMS



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.53	7.53	-	7.53

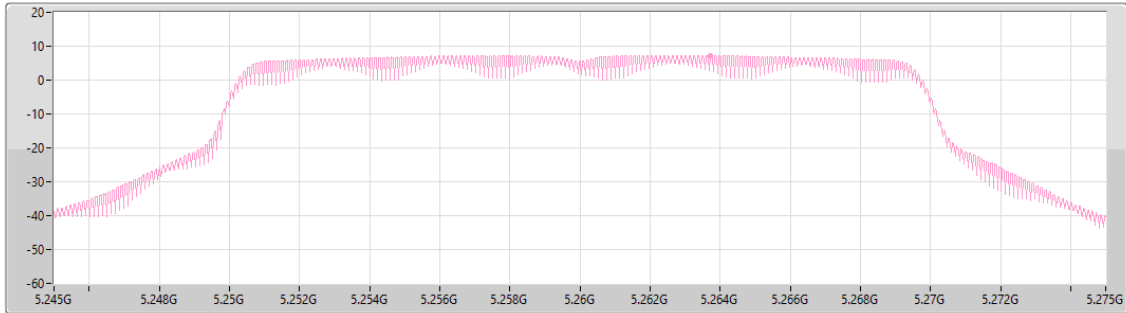
5.25-5.35GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

PSD

5260MHz

21/10/2023

CF (Hz)
5.26G
Span (Hz)
30M
RBW (Hz)
1M
VBW (Hz)
3M
Sweep Time (s)
10.01
Detector Type
RMS



Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
7.26	7.26	-	7.26

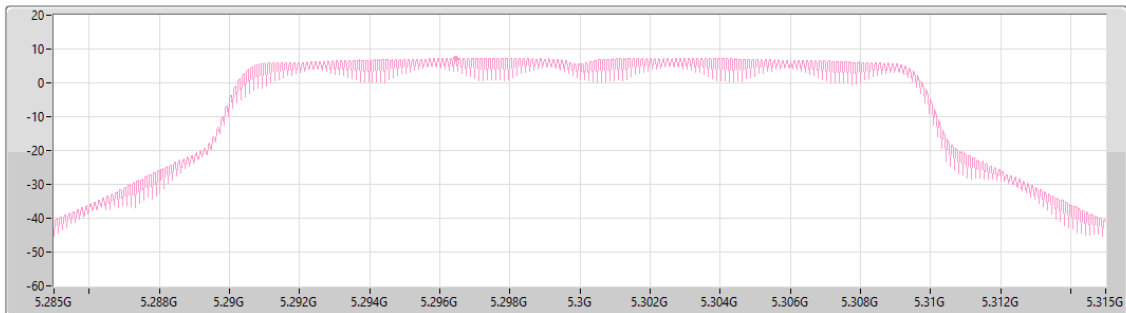
5.25-5.35GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

PSD

5300MHz

21/10/2023

CF (Hz)
5.3G
Span (Hz)
30M
RBW (Hz)
1M
VBW (Hz)
3M
Sweep Time (s)
10.01
Detector Type
RMS



Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
7.25	7.25	-	7.25

5.25-5.35GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

PSD

5320MHz

21/10/2023

CF (Hz)
5.32G

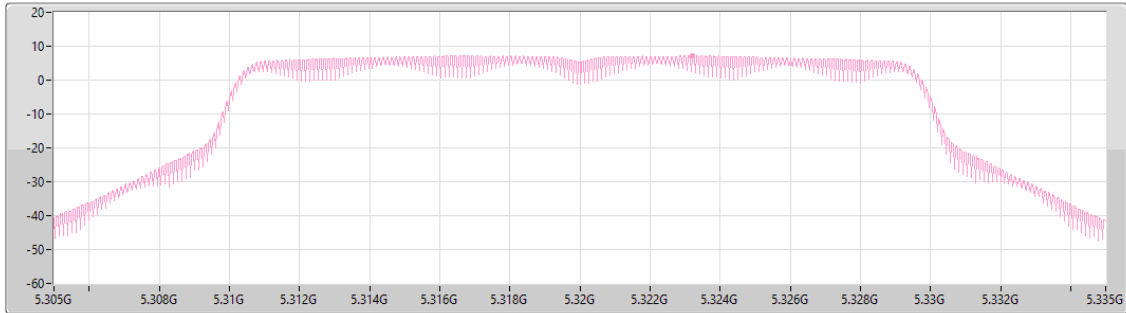
Span (Hz)
30M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
10.01

Detector Type
RMS



Port 2

Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
7.17	7.17	-	7.17

5.25-5.35GHz_802.11ax HEW40_Nss1,(MCS0)_1TX

PSD

5270MHz

21/10/2023

CF (Hz)
5.27G

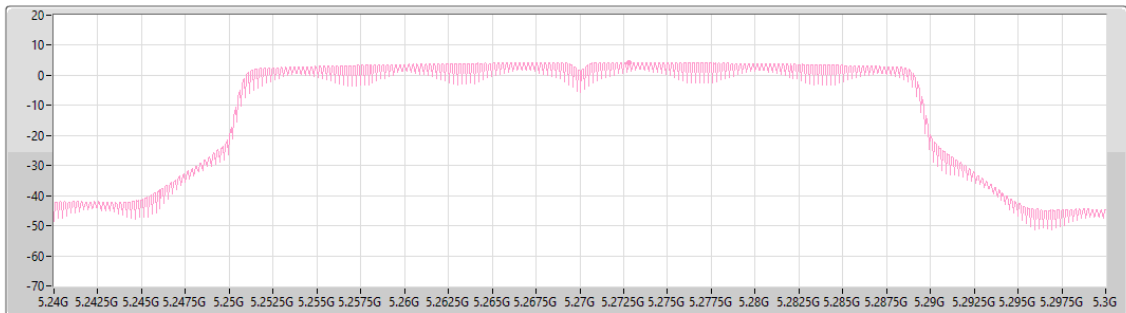
Span (Hz)
60M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
10.01

Detector Type
RMS



Port 2

Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
4.30	4.30	-	4.30

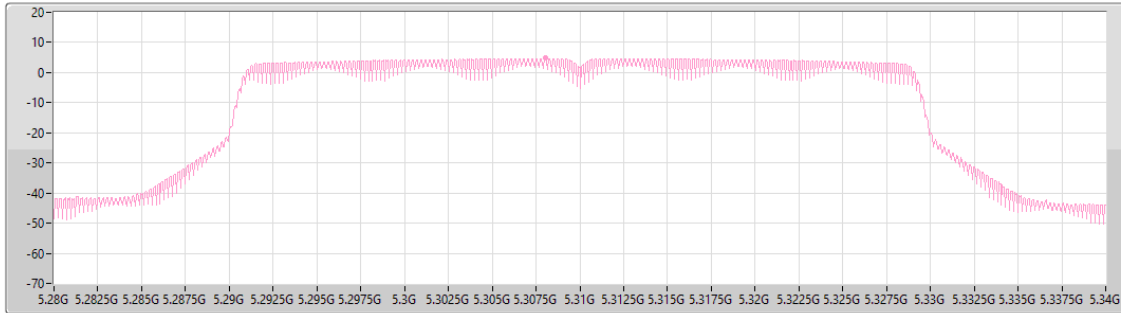
5.25-5.35GHz_802.11ax HEW40_Nss1,(MCS0)_1TX

PSD

5310MHz

21/10/2023

CF (Hz)
5.31G
Span (Hz)
60M
RBW (Hz)
1M
VBW (Hz)
3M
Sweep Time (s)
10.01
Detector Type
RMS



Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
4.73	4.73	-	4.73

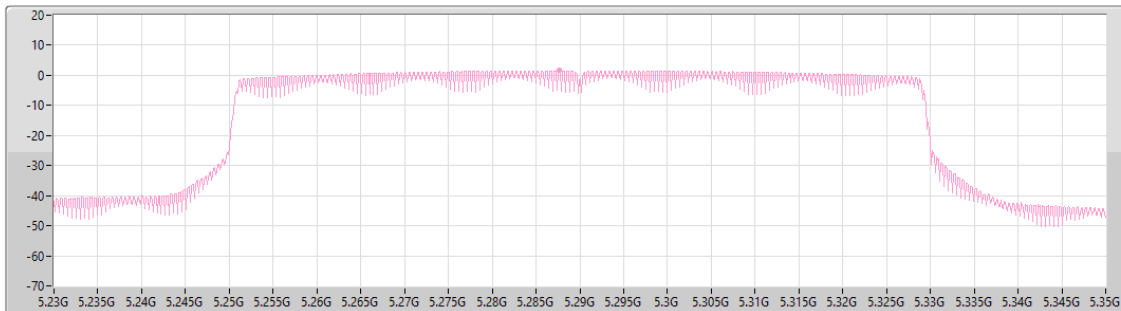
5.25-5.35GHz_802.11ax HEW80_Nss1,(MCS0)_1TX

PSD

5290MHz

21/10/2023

CF (Hz)
5.29G
Span (Hz)
120M
RBW (Hz)
1M
VBW (Hz)
3M
Sweep Time (s)
10.01
Detector Type
RMS



Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
1.56	1.56	-	1.56

5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX

PSD

5260MHz

23/10/2023

CF (Hz)
5.26G

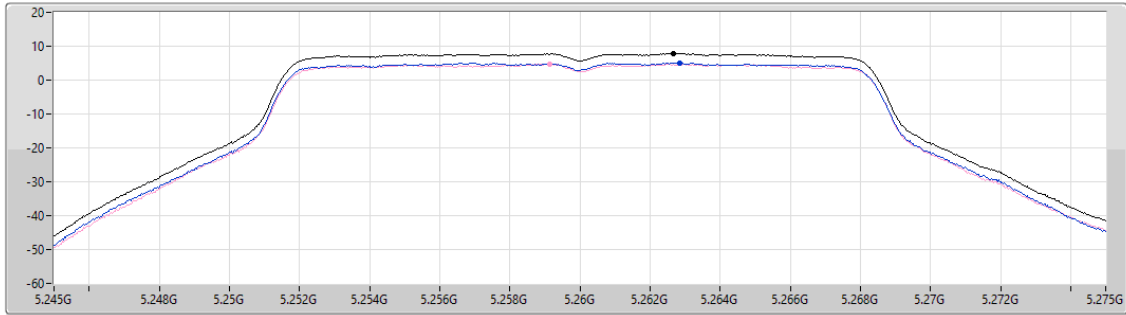
Span (Hz)
30M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
20m

Detector Type
RMS



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
7.80	7.80	5.01	4.73

5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX

PSD

5300MHz

23/10/2023

CF (Hz)
5.3G

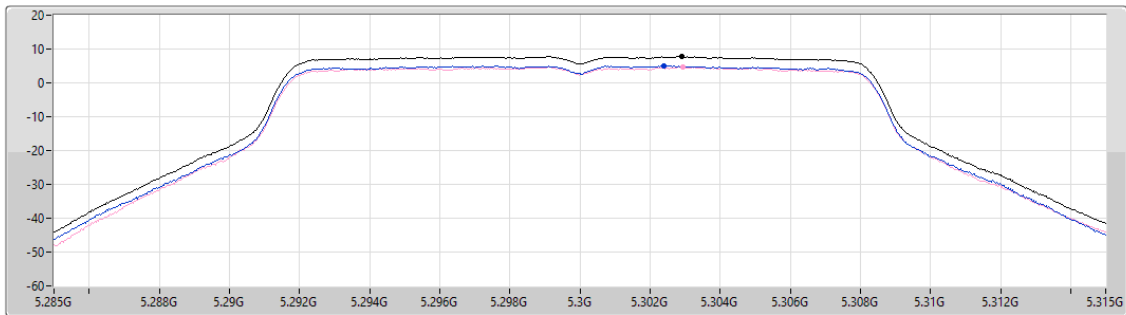
Span (Hz)
30M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
20m

Detector Type
RMS



Sum 

Port 1 

Port 2 

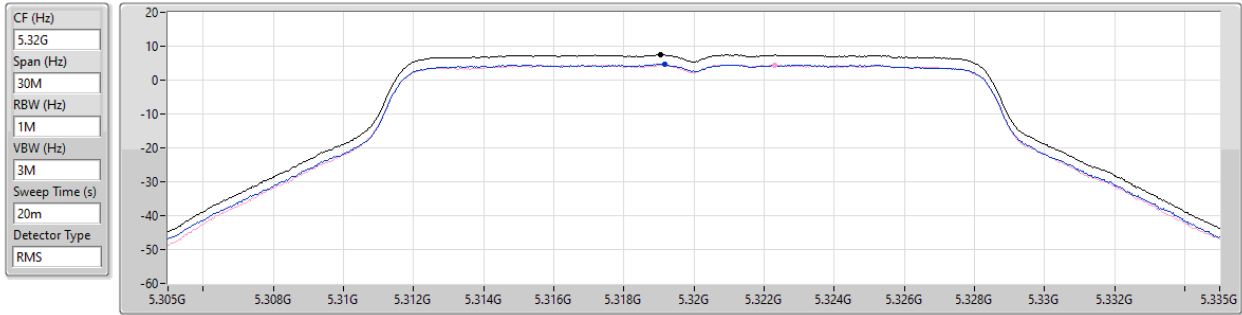
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
7.81	7.81	5.01	4.69

5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX

PSD

5320MHz

23/10/2023



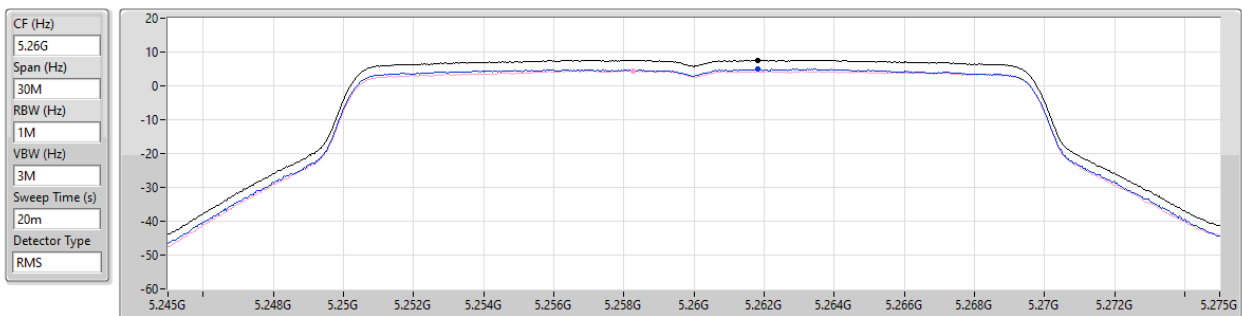
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
7.52	7.52	4.68	4.46

5.25-5.35GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

PSD

5260MHz

23/10/2023



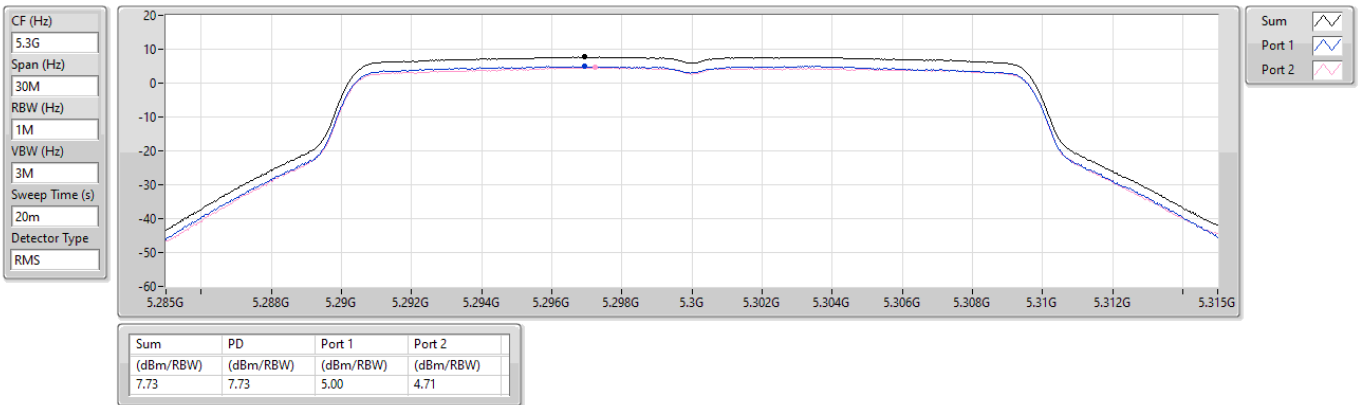
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
7.65	7.65	4.97	4.48

5.25-5.35GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

PSD

5300MHz

23/10/2023

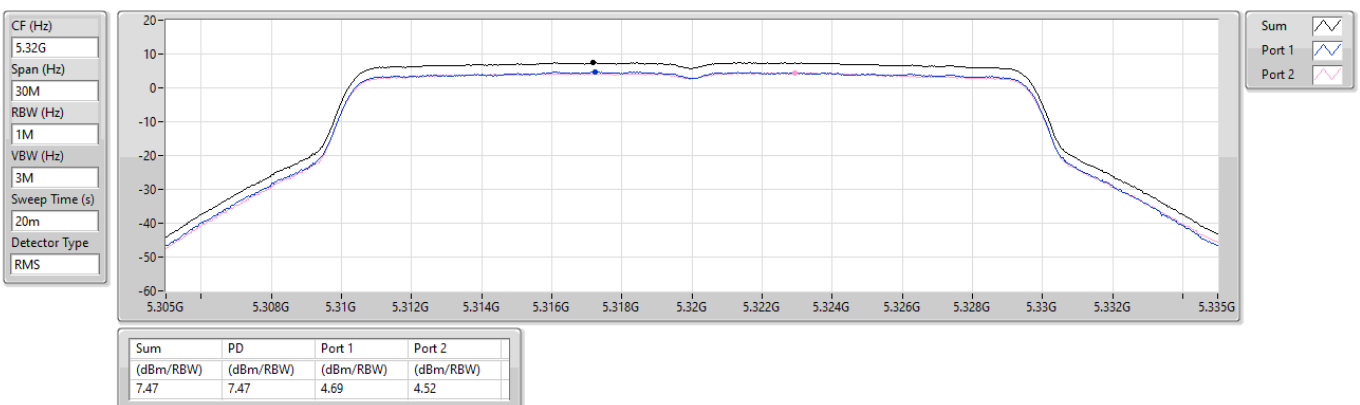


5.25-5.35GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

PSD

5320MHz

23/10/2023



5.25-5.35GHz_802.11ax_HEW40_Nss1,(MCS0)_2TX

PSD

5270MHz

23/10/2023

CF (Hz)
5.27G

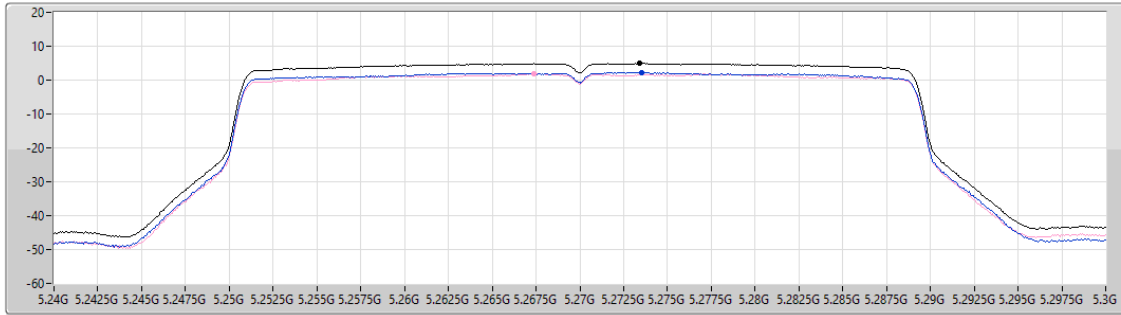
Span (Hz)
60M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
20m

Detector Type
RMS



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.95	4.95	2.29	1.84

5.25-5.35GHz_802.11ax_HEW40_Nss1,(MCS0)_2TX

PSD

5310MHz

23/10/2023

CF (Hz)
5.31G

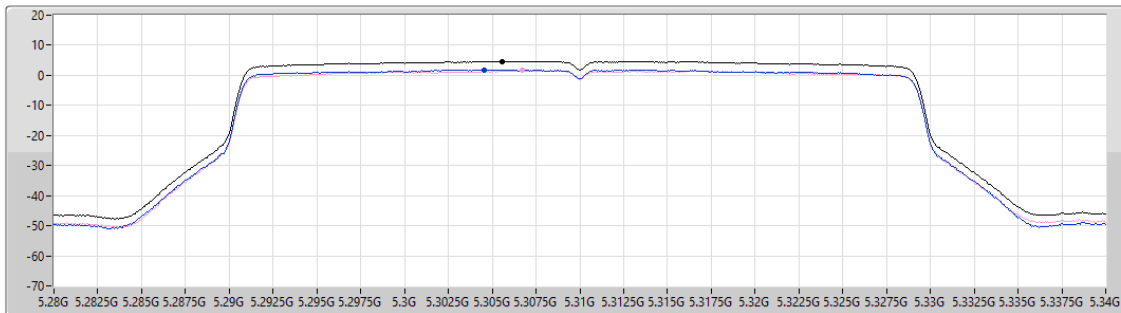
Span (Hz)
60M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
20m

Detector Type
RMS



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.61	4.61	1.86	1.58

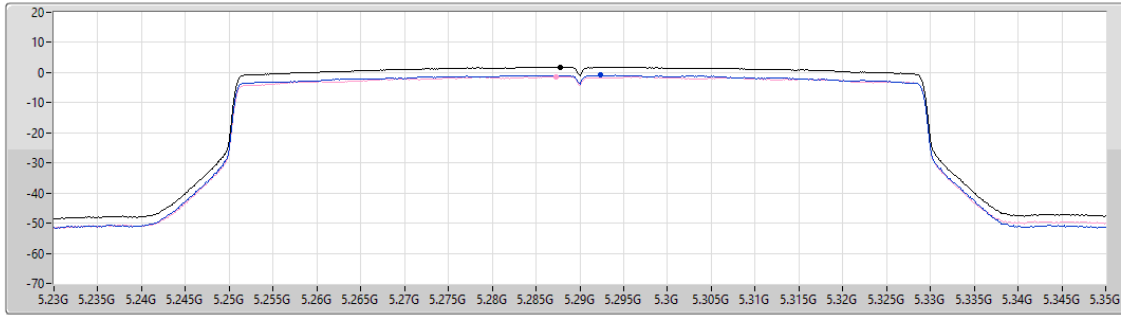
5.25-5.35GHz_802.11ax_HEW80_Nss1,(MCS0)_2TX

PSD

5290MHz

23/10/2023

CF (Hz)
5.29G
Span (Hz)
120M
RBW (Hz)
1M
VBW (Hz)
3M
Sweep Time (s)
20m
Detector Type
RMS



Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
1.82	1.82	-0.85	-1.28

Sum
Port 1
Port 2



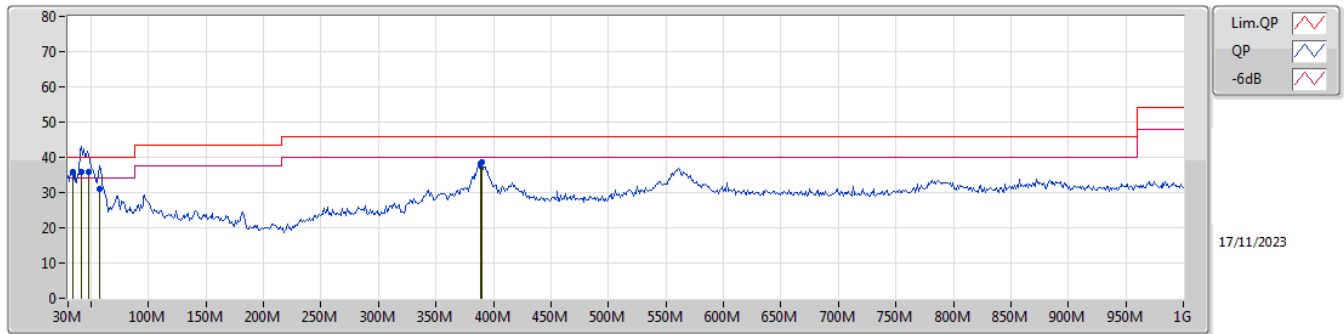
Radiated Emissions below 1GHz

Appendix E.1

Summary

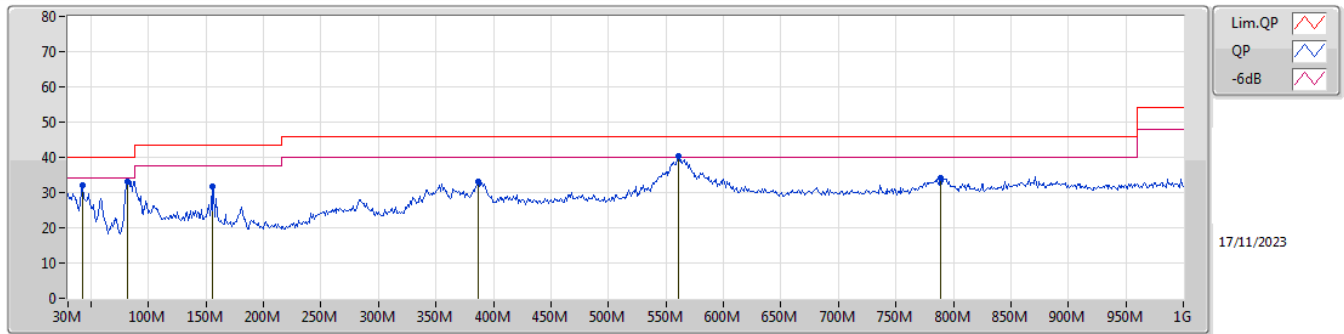
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 3	Pass	QP	41.64M	35.99	40.00	-4.01	Vertical

Mode 3



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	33.88M	35.92	40.00	-4.08	-21.86	3	Vertical	124	1.00	-	57.78	21.76	0.70	44.32		
QP	41.64M	35.99	40.00	-4.01	-26.19	3	Vertical	354	1.00	"Worst"	62.18	17.40	0.78	44.37		
QP	48.43M	35.95	40.00	-4.05	-29.85	3	Vertical	360	1.00	-	65.80	13.88	0.84	44.57		
QP	57.16M	31.09	40.00	-8.91	-31.91	3	Vertical	0	2.00	-	63.00	11.80	0.91	44.62		
PK	388.9M	38.41	46.00	-7.59	-21.61	3	Vertical	360	1.50	-	60.02	20.35	2.19	44.15		
PK	389.87M	38.62	46.00	-7.38	-21.56	3	Vertical	357	1.50	-	60.18	20.39	2.19	44.14		

Mode 3



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	42.61M	32.03	40.00	-7.97	-26.73	3	Horizontal	89	2.00	-	58.76	16.87	0.80	44.40		
PK	81.41M	33.12	40.00	-6.88	-31.23	3	Horizontal	353	3.00	-	64.35	12.35	1.01	44.59		
PK	155.13M	31.84	43.50	-11.66	-27.93	3	Horizontal	23	1.50	-	59.77	15.25	1.37	44.55		
PK	386.96M	33.08	46.00	-12.92	-21.71	3	Horizontal	204	1.00	-	54.79	20.26	2.18	44.15		
PK	560.59M	40.45	46.00	-5.55	-17.45	3	Horizontal	86	1.25	"Worst"	57.90	23.81	2.57	43.83		
PK	788.54M	34.03	46.00	-11.97	-15.57	3	Horizontal	228	1.00	-	49.60	24.93	3.02	43.52		

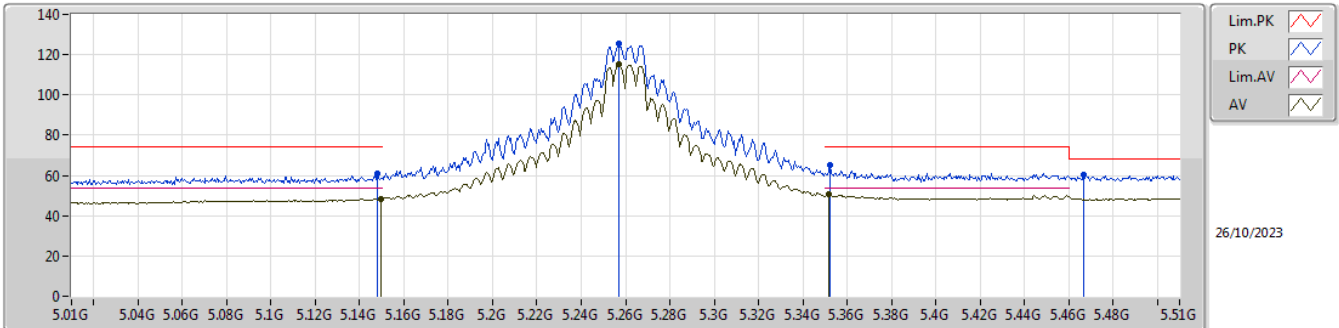


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.25-5.35GHz	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	Pass	AV	5.35G	53.99	54.00	-0.01	3	Horizontal	0	1.68	25.5

5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX

5260MHz_TX

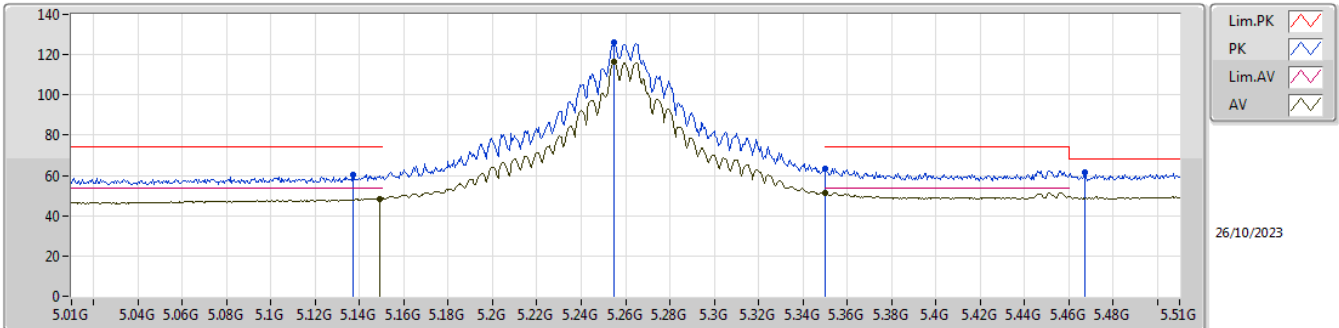


EUT_V_2TX
SET 25

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	5.148G	61.24	74.00	-12.76	53.89	3	Vertical	11	1.54	-	34.10	8.10	34.85			
AV	5.1495G	48.37	54.00	-5.63	41.01	3	Vertical	11	1.54	-	34.10	8.11	34.85			
PK	5.257G	125.43	Inf	-Inf	117.97	3	Vertical	11	1.54	-	34.04	8.29	34.87			
AV	5.257G	115.16	Inf	-Inf	107.70	3	Vertical	11	1.54	-	34.04	8.29	34.87			
PK	5.3525G	65.26	74.00	-8.74	57.20	3	Vertical	11	1.54	-	34.49	8.45	34.88			
AV	5.3515G	50.73	54.00	-3.27	42.66	3	Vertical	11	1.54	-	34.50	8.45	34.88			
PK	5.4665G	60.14	68.20	-8.06	51.87	3	Vertical	11	1.54	-	34.60	8.57	34.90			

5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX

5260MHz_TX

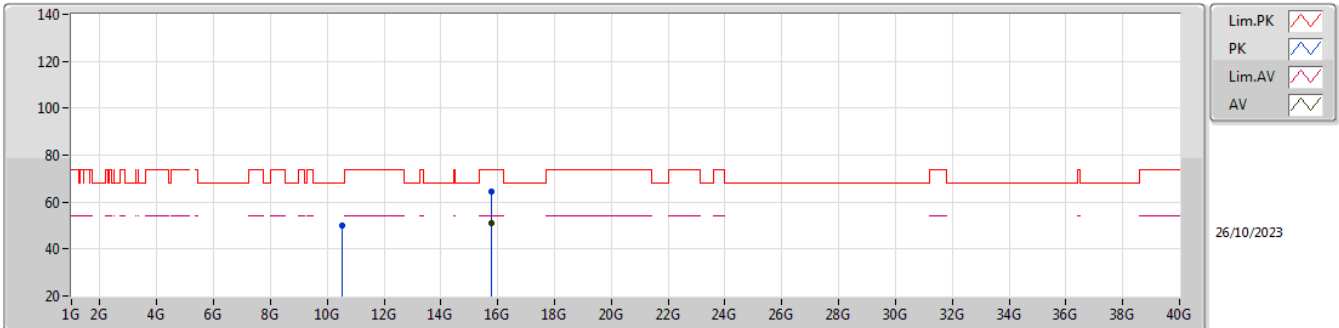


EUT_V_2TX
SET 25

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	5.137G	60.42	74.00	-13.58	53.11	3	Horizontal	360	1.46	-	34.07	8.09	34.85			
AV	5.149G	48.53	54.00	-5.47	41.17	3	Horizontal	360	1.46	-	34.10	8.11	34.85			
PK	5.255G	126.01	Inf	-Inf	118.57	3	Horizontal	360	1.46	-	34.03	8.28	34.87			
AV	5.255G	116.59	Inf	-Inf	109.15	3	Horizontal	360	1.46	-	34.03	8.28	34.87			
PK	5.35G	63.56	74.00	-10.44	55.49	3	Horizontal	360	1.46	-	34.50	8.45	34.88			
AV	5.35G	51.49	54.00	-2.51	43.42	3	Horizontal	360	1.46	-	34.50	8.45	34.88			
PK	5.4675G	61.78	68.20	-6.42	53.51	3	Horizontal	360	1.46	-	34.60	8.57	34.90			

5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX

5260MHz_TX

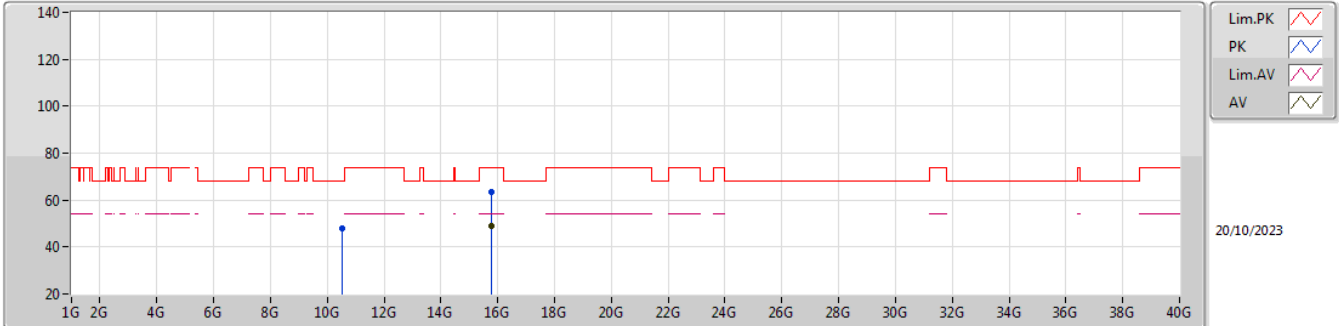


EUT_Y_2TX
SET 25

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	10.52004G	49.80	68.20	-18.40	42.33	3	Vertical	335	1.68	-	38.02	12.49	43.04			
PK	15.78628G	64.73	74.00	-9.27	48.82	3	Vertical	330	1.05	-	37.58	20.61	42.28			
AV	15.78588G	50.99	54.00	-3.01	35.08	3	Vertical	330	1.05	-	37.58	20.61	42.28			

5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX

5260MHz_TX

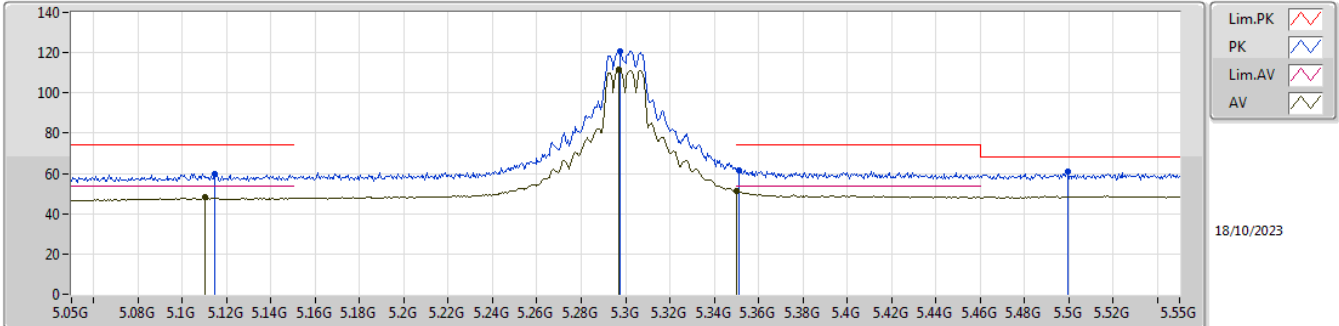


EUT_Y_2TX
SET 25

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	10.52G	47.81	68.20	-20.39	40.34	3	Horizontal	13	1.76	-	38.02	12.49	43.04			
PK	15.7864G	63.39	74.00	-10.61	47.48	3	Horizontal	314	1.80	-	37.58	20.61	42.28			
AV	15.78032G	49.16	54.00	-4.84	33.21	3	Horizontal	314	1.80	-	37.62	20.61	42.28			

5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX

5300MHz_TX

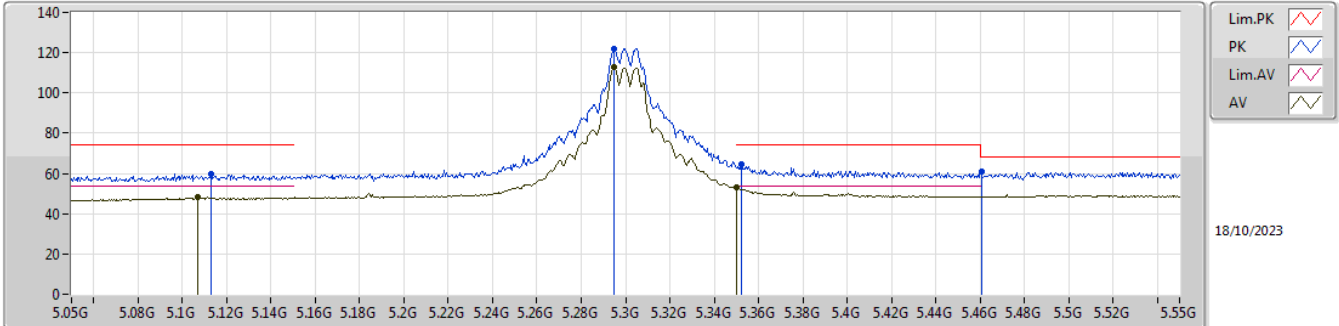


EUT_Y_2TX
SET 23
23
2.70

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	5.1145G	59.94	74.00	-14.06	52.71	3	Vertical	11	1.52	23	34.03	8.05	34.85			
AV	5.1105G	48.27	54.00	-5.73	41.06	3	Vertical	11	1.52	23	34.02	8.04	34.85			
PK	5.2975G	120.67	Inf	-Inf	112.90	3	Vertical	11	1.52	23	34.28	8.36	34.87			
AV	5.297G	111.88	Inf	-Inf	104.12	3	Vertical	11	1.52	23	34.28	8.35	34.87			
PK	5.351G	61.62	74.00	-12.38	53.55	3	Vertical	11	1.52	23	34.50	8.45	34.88			
AV	5.35G	51.30	54.00	-2.70	43.23	3	Vertical	11	1.52	23	34.50	8.45	34.88			
PK	5.4995G	60.65	68.20	-7.55	52.36	3	Vertical	11	1.52	23	34.60	8.59	34.90			

5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX

5300MHz_TX

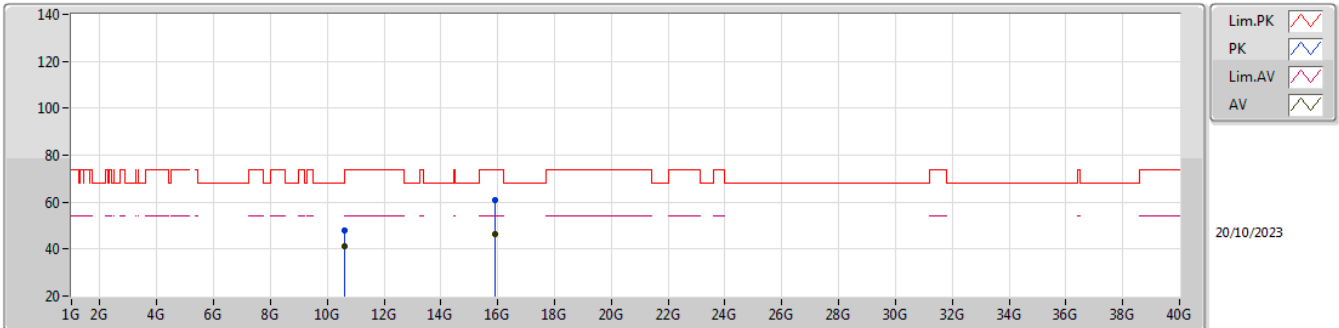


EUT_Y_2TX
SET 23
15\21\24\22.5\23\23.5\23
5.55\4.62\1.81\2.28\0.93\0.34\0.64

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	5.113G	59.58	74.00	-14.42	52.35	3	Horizontal	352	1.59	23	34.03	8.05	34.85			
AV	5.107G	48.18	54.00	-5.82	40.97	3	Horizontal	352	1.59	23	34.01	8.04	34.84			
PK	5.295G	122.17	Inf	-Inf	114.42	3	Horizontal	352	1.59	23	34.27	8.35	34.87			
AV	5.295G	112.75	Inf	-Inf	105.00	3	Horizontal	352	1.59	23	34.27	8.35	34.87			
PK	5.3525G	64.75	74.00	-9.25	56.69	3	Horizontal	352	1.59	23	34.49	8.45	34.88			
AV	5.35G	53.36	54.00	-0.64	45.29	3	Horizontal	352	1.59	23	34.50	8.45	34.88			
PK	5.4605G	60.73	68.20	-7.47	52.45	3	Horizontal	352	1.59	23	34.60	8.57	34.89			

5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX

5300MHz_TX

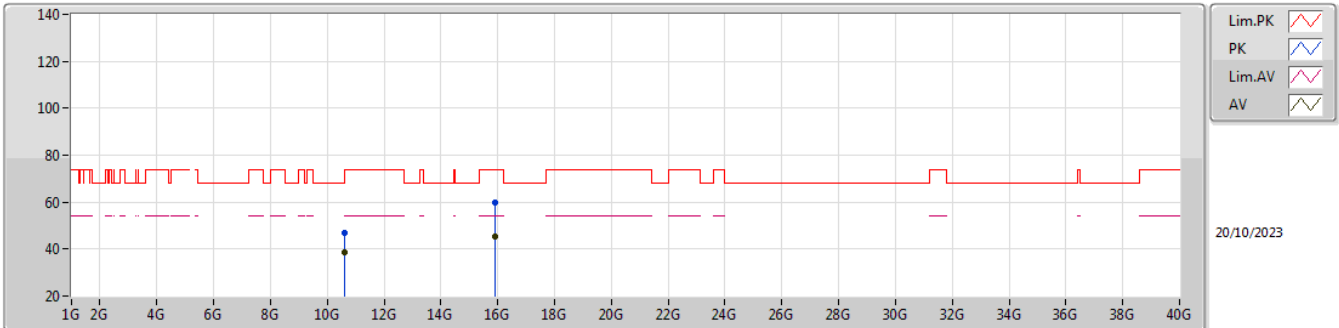


EUT_Y_2TX
SET 23

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	10.59988G	47.86	68.20	-20.34	40.26	3	Vertical	336	1.73	23	38.10	12.55	43.05				
AV	10.6G	41.36	54.00	-12.64	33.76	3	Vertical	336	1.73	23	38.10	12.55	43.05				
PK	15.90104G	60.82	74.00	-13.18	44.59	3	Vertical	4	1.80	23	37.60	20.77	42.14				
AV	15.90552G	46.44	54.00	-7.56	30.22	3	Vertical	4	1.80	23	37.59	20.77	42.14				

5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX

5300MHz_TX

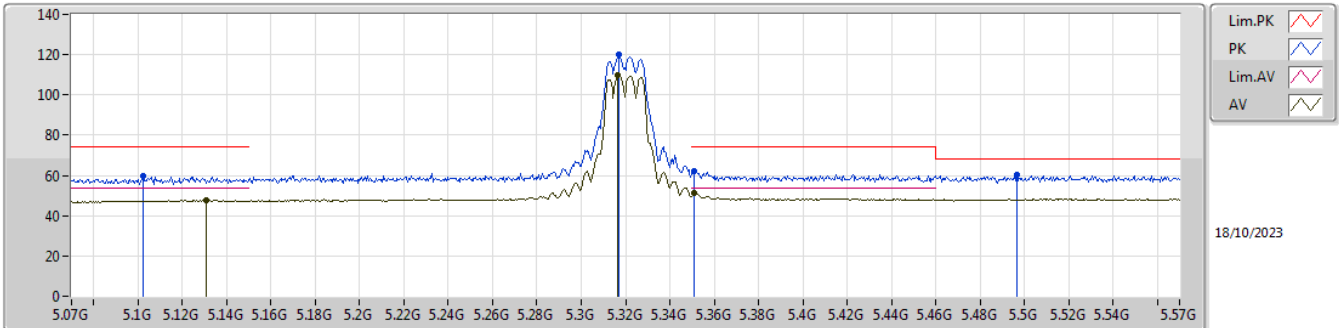


EUT_Y_2TX
SET 23

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	10.6G	46.89	74.00	-27.11	39.29	3	Horizontal	307	1.71	23	38.10	12.55	43.05				
AV	10.6G	38.72	54.00	-15.28	31.12	3	Horizontal	307	1.71	23	38.10	12.55	43.05				
PK	15.90708G	59.71	74.00	-14.29	43.48	3	Horizontal	314	1.80	23	37.59	20.78	42.14				
AV	15.90268G	45.19	54.00	-8.81	28.96	3	Horizontal	314	1.80	23	37.60	20.77	42.14				

5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX

5320MHz_TX

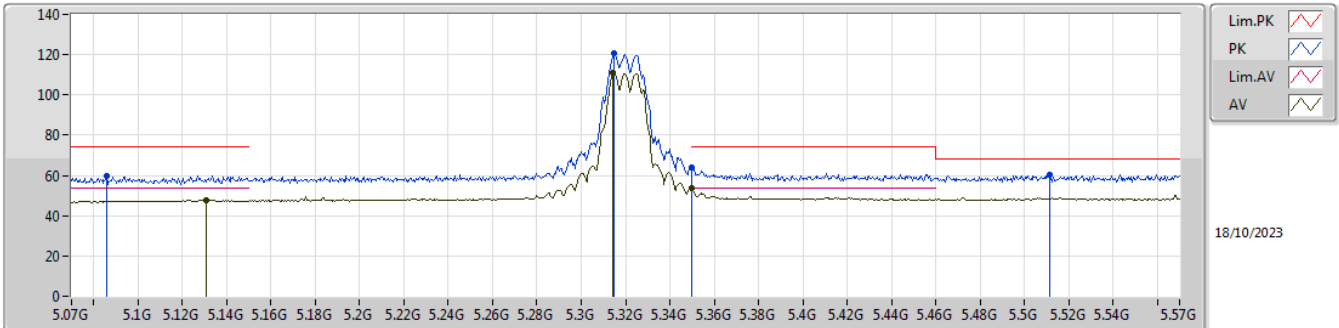


EUT_Y_2TX
SET 21
21
2.97

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	5.1025G	59.76	74.00	-14.24	52.56	3	Vertical	12	1.32	21	34.01	8.03	34.84			
AV	5.131G	47.78	54.00	-6.22	40.49	3	Vertical	12	1.32	21	34.06	8.08	34.85			
PK	5.317G	120.12	Inf	-Inf	112.23	3	Vertical	12	1.32	21	34.37	8.39	34.87			
AV	5.3165G	109.64	Inf	-Inf	101.75	3	Vertical	12	1.32	21	34.37	8.39	34.87			
PK	5.351G	62.36	74.00	-11.64	54.29	3	Vertical	12	1.32	21	34.50	8.45	34.88			
AV	5.351G	51.03	54.00	-2.97	42.96	3	Vertical	12	1.32	21	34.50	8.45	34.88			
PK	5.4965G	60.26	68.20	-7.94	51.97	3	Vertical	12	1.32	21	34.60	8.59	34.90			

5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX

5320MHz_TX

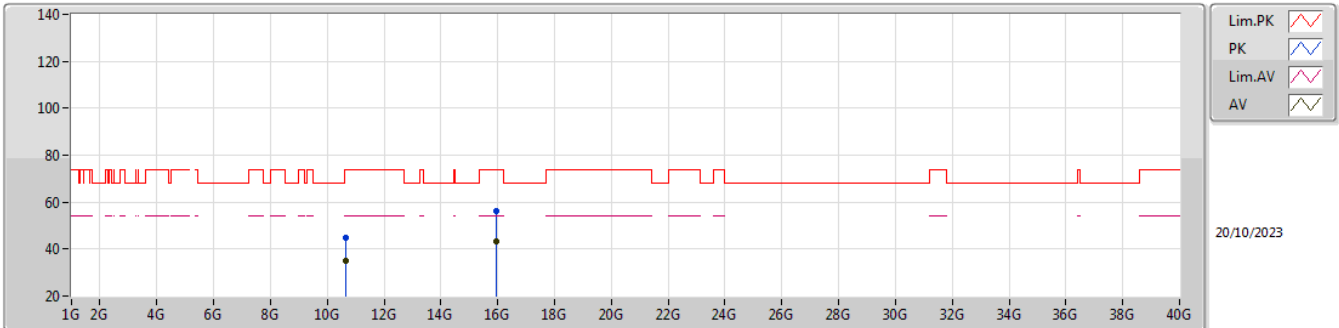


EUT_Y_2TX
SET 21
15\21
5.62\0.50

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	5.086G	59.48	74.00	-14.52	52.40	3	Horizontal	350	1.42	21	33.92	8.00	34.84				
AV	5.131G	47.86	54.00	-6.14	40.57	3	Horizontal	350	1.42	21	34.06	8.08	34.85				
PK	5.315G	120.54	Inf	-Inf	112.66	3	Horizontal	350	1.42	21	34.36	8.39	34.87				
AV	5.3145G	111.01	Inf	-Inf	103.14	3	Horizontal	350	1.42	21	34.36	8.38	34.87				
PK	5.35G	63.82	74.00	-10.18	55.75	3	Horizontal	350	1.42	21	34.50	8.45	34.88				
AV	5.35G	53.50	54.00	-0.50	45.43	3	Horizontal	350	1.42	21	34.50	8.45	34.88				
PK	5.5115G	60.40	68.20	-7.80	52.11	3	Horizontal	350	1.42	21	34.60	8.60	34.91				

5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX

5320MHz_TX

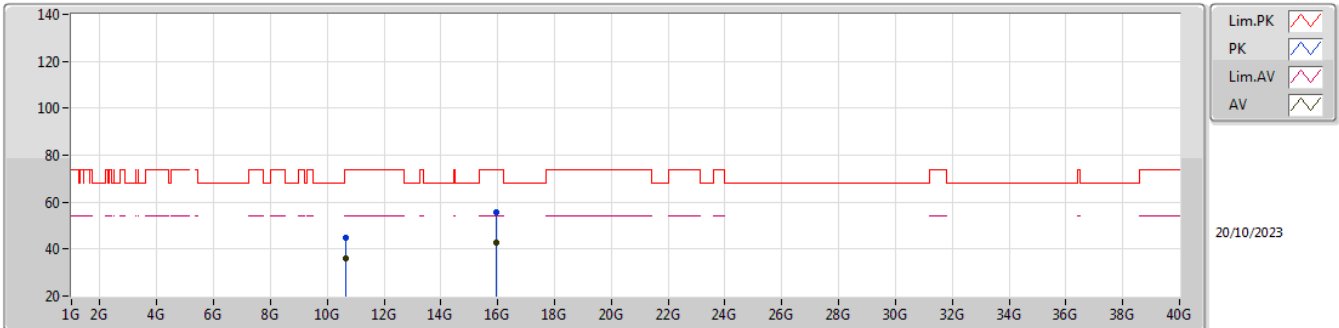


EUT_Y_2TX
SET 21

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	10.64G	44.69	74.00	-29.31	37.06	3	Vertical	317	2.01	21	38.10	12.59	43.06			
AV	10.63992G	34.90	54.00	-19.10	27.27	3	Vertical	317	2.01	21	38.10	12.59	43.06			
PK	15.95096G	55.98	74.00	-18.02	39.69	3	Vertical	4	1.82	21	37.55	20.83	42.09			
AV	15.96052G	43.06	54.00	-10.94	26.75	3	Vertical	4	1.82	21	37.54	20.85	42.08			

5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX

5320MHz_TX

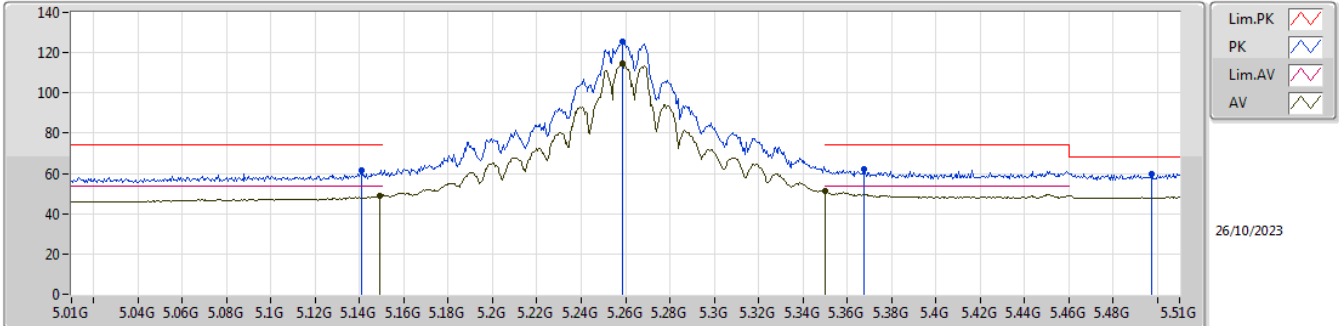


EUT_Y_2TX
SET 21

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	10.64008G	45.01	74.00	-28.99	37.38	3	Horizontal	308	1.68	21	38.10	12.59	43.06				
AV	10.63992G	36.10	54.00	-17.90	28.47	3	Horizontal	308	1.68	21	38.10	12.59	43.06				
PK	15.96644G	55.57	74.00	-18.43	39.25	3	Horizontal	54	1.80	21	37.53	20.86	42.07				
AV	15.96264G	42.77	54.00	-11.23	26.45	3	Horizontal	54	1.80	21	37.54	20.85	42.07				

5.25-5.35GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

5260MHz_TX

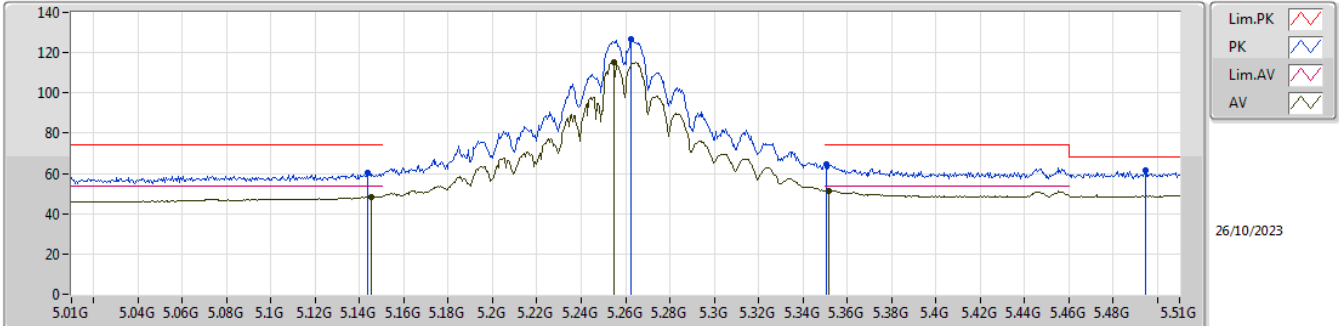


EUT_Y_2TX
SET 25

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	5.141G	61.62	74.00	-12.38	54.30	3	Vertical	12	1.41	-	34.08	8.09	34.85			
AV	5.149G	49.10	54.00	-4.90	41.74	3	Vertical	12	1.41	-	34.10	8.11	34.85			
PK	5.2585G	125.71	Inf	-Inf	118.24	3	Vertical	12	1.41	-	34.05	8.29	34.87			
AV	5.2585G	114.51	Inf	-Inf	107.04	3	Vertical	12	1.41	-	34.05	8.29	34.87			
PK	5.3675G	62.31	74.00	-11.69	54.25	3	Vertical	12	1.41	-	34.47	8.47	34.88			
AV	5.35G	51.11	54.00	-2.89	43.04	3	Vertical	12	1.41	-	34.50	8.45	34.88			
PK	5.4975G	60.01	68.20	-8.19	51.72	3	Vertical	12	1.41	-	34.60	8.59	34.90			

5.25-5.35GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

5260MHz_TX

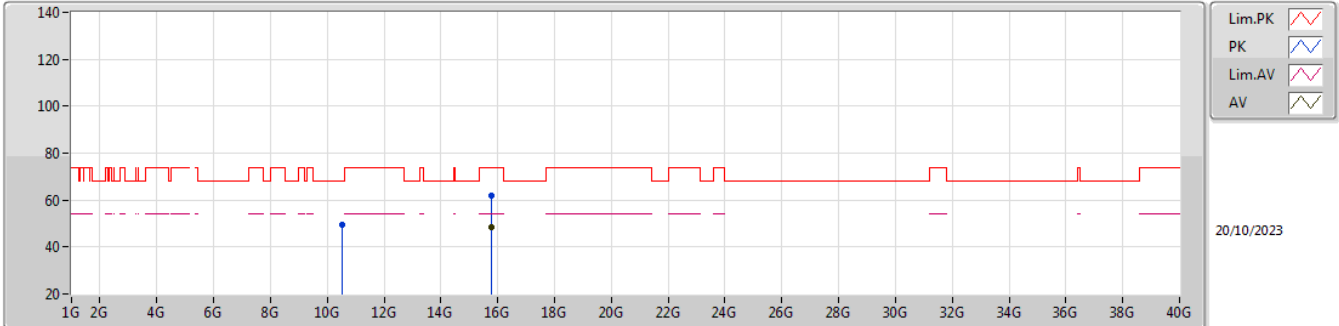


EUT_V_2TX
SET 25
15\21\24\25
6.20\5.10\4.42\2.46

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	5.1435G	60.17	74.00	-13.83	52.83	3	Horizontal	360	1.54	-	34.09	8.10	34.85				
AV	5.145G	48.57	54.00	-5.43	41.23	3	Horizontal	360	1.54	-	34.09	8.10	34.85				
PK	5.2625G	126.60	Inf	-Inf	119.09	3	Horizontal	360	1.54	-	34.08	8.30	34.87				
AV	5.255G	115.40	Inf	-Inf	107.96	3	Horizontal	360	1.54	-	34.03	8.28	34.87				
PK	5.3505G	64.64	74.00	-9.36	56.57	3	Horizontal	360	1.54	-	34.50	8.45	34.88				
AV	5.352G	51.54	54.00	-2.46	43.47	3	Horizontal	360	1.54	-	34.50	8.45	34.88				
PK	5.4945G	61.30	68.20	-6.90	53.01	3	Horizontal	360	1.54	-	34.60	8.59	34.90				

5.25-5.35GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

5260MHz_TX

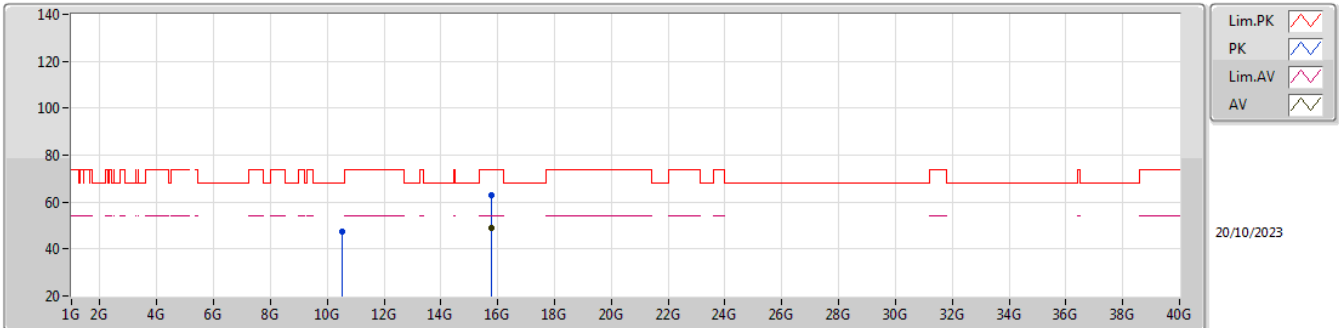


EUT_Y_2TX
SET 25

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	10.51992G	49.56	68.20	-18.64	42.09	3	Vertical	336	1.64	30	38.02	12.49	43.04			
PK	15.78152G	62.11	74.00	-11.89	46.17	3	Vertical	322	1.36	30	37.61	20.61	42.28			
AV	15.7824G	48.35	54.00	-5.65	32.41	3	Vertical	322	1.36	30	37.61	20.61	42.28			

5.25-5.35GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

5260MHz_TX

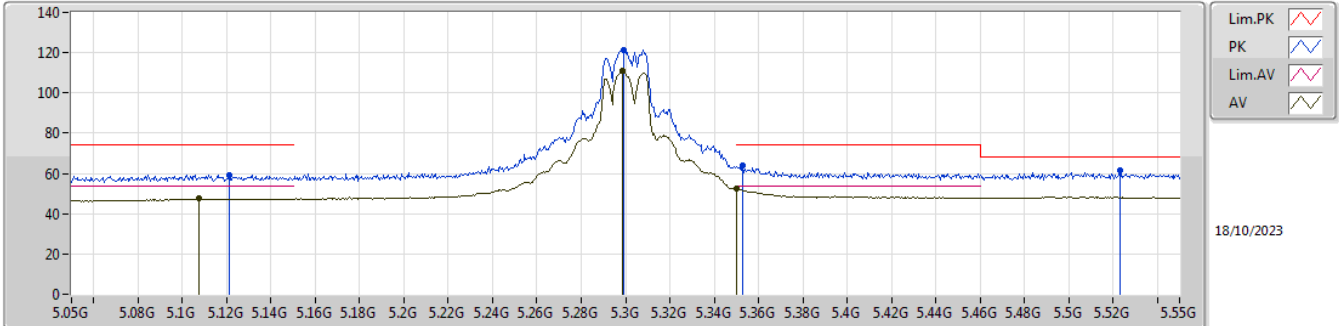


EUT_V_2TX
SET 25

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	10.51984G	47.29	68.20	-20.91	39.82	3	Horizontal	13	1.79	30	38.02	12.49	43.04			
PK	15.79072G	62.68	74.00	-11.32	46.77	3	Horizontal	314	1.80	30	37.56	20.62	42.27			
AV	15.78108G	49.01	54.00	-4.99	33.07	3	Horizontal	314	1.80	30	37.61	20.61	42.28			

5.25-5.35GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

5300MHz_TX

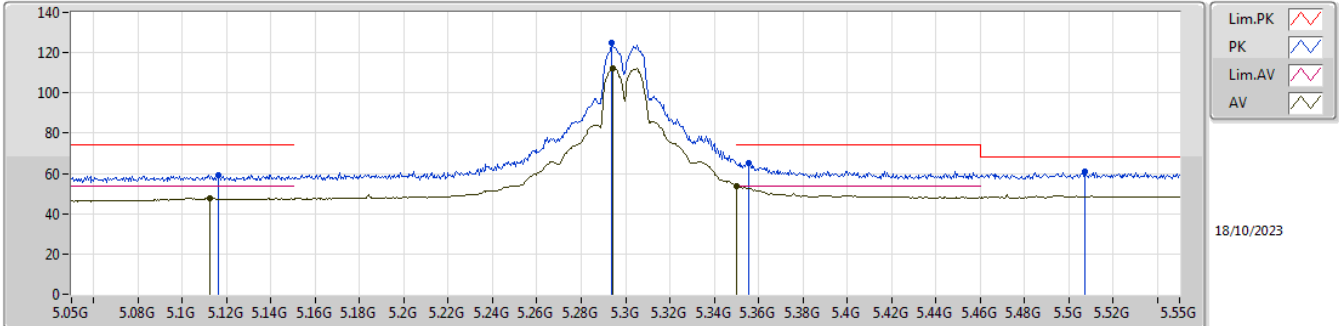


EUT_V_2TX
SET 23.5
23.5
1.61

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	5.121G	59.40	74.00	-14.60	52.15	3	Vertical	11	1.44	23.5	34.04	8.06	34.85			
AV	5.1075G	47.51	54.00	-6.49	40.30	3	Vertical	11	1.44	23.5	34.02	8.04	34.85			
PK	5.299G	121.53	Inf	-Inf	113.75	3	Vertical	11	1.44	23.5	34.29	8.36	34.87			
AV	5.2985G	111.03	Inf	-Inf	103.25	3	Vertical	11	1.44	23.5	34.29	8.36	34.87			
PK	5.353G	63.79	74.00	-10.21	55.73	3	Vertical	11	1.44	23.5	34.49	8.45	34.88			
AV	5.35G	52.39	54.00	-1.61	44.32	3	Vertical	11	1.44	23.5	34.50	8.45	34.88			
PK	5.523G	61.41	68.20	-6.79	53.11	3	Vertical	11	1.44	23.5	34.60	8.61	34.91			

5.25-5.35GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

5300MHz_TX

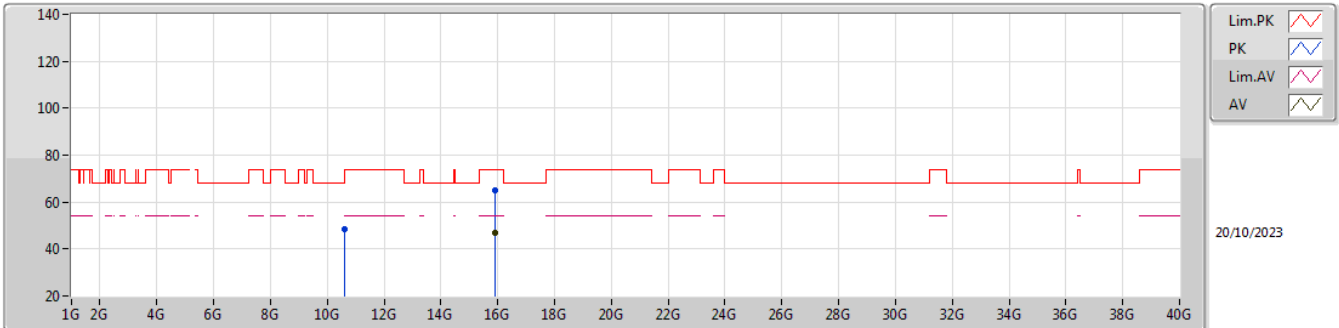


EUT_V_2TX
SET 23.5
15\21\24\22.5\23\23.5
6.23\5.29\2.79\3.02\2.00\0.26

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	5.116G	59.14	74.00	-14.86	51.91	3	Horizontal	350	1.61	23.5	34.03	8.05	34.85				
AV	5.1125G	47.86	54.00	-6.14	40.64	3	Horizontal	350	1.61	23.5	34.02	8.05	34.85				
PK	5.2935G	124.76	Inf	-Inf	117.02	3	Horizontal	350	1.61	23.5	34.26	8.35	34.87				
AV	5.294G	112.00	Inf	-Inf	104.26	3	Horizontal	350	1.61	23.5	34.26	8.35	34.87				
PK	5.3555G	65.16	74.00	-8.84	57.10	3	Horizontal	350	1.61	23.5	34.49	8.45	34.88				
AV	5.35G	53.74	54.00	-0.26	45.67	3	Horizontal	350	1.61	23.5	34.50	8.45	34.88				
PK	5.5075G	60.95	68.20	-7.25	52.65	3	Horizontal	350	1.61	23.5	34.60	8.60	34.90				

5.25-5.35GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

5300MHz_TX

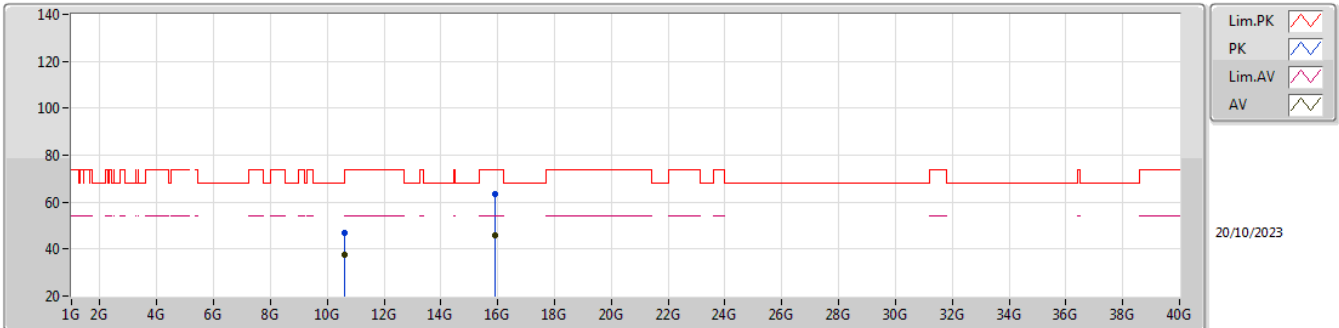


EUT_V_2TX
SET 23.5

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	10.6G	48.39	74.00	-25.61	40.79	3	Vertical	336	1.74	23.5	38.10	12.55	43.05			
PK	15.90508G	64.93	74.00	-9.07	48.71	3	Vertical	4	1.80	23.5	37.59	20.77	42.14			
AV	15.9064G	46.93	54.00	-7.07	30.70	3	Vertical	4	1.80	23.5	37.59	20.78	42.14			

5.25-5.35GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

5300MHz_TX

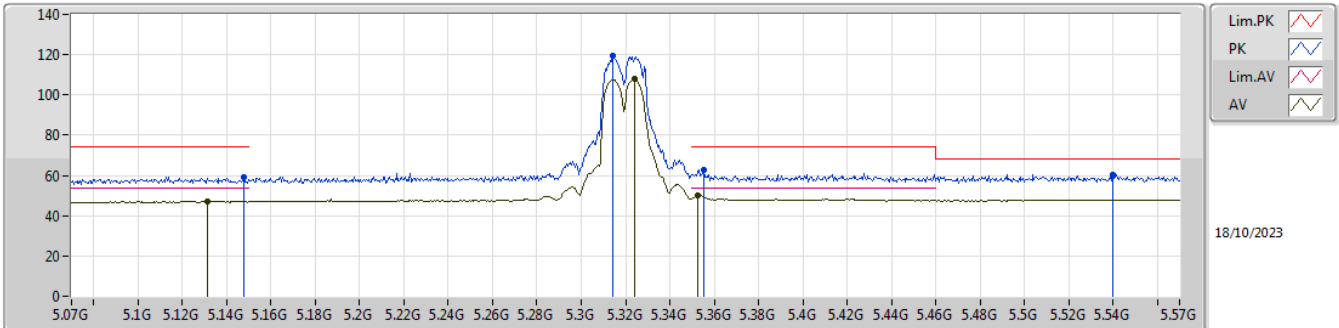


EUT_V_2TX
SET 23.5

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	10.59992G	46.78	68.20	-21.42	39.18	3	Horizontal	309	1.68	23.5	38.10	12.55	43.05			
AV	10.6G	37.71	54.00	-16.29	30.11	3	Horizontal	309	1.68	23.5	38.10	12.55	43.05			
PK	15.9048G	63.23	74.00	-10.77	47.00	3	Horizontal	350	1.80	23.5	37.60	20.77	42.14			
AV	15.90312G	45.74	54.00	-8.26	29.51	3	Horizontal	350	1.80	23.5	37.60	20.77	42.14			

5.25-5.35GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

5320MHz_TX

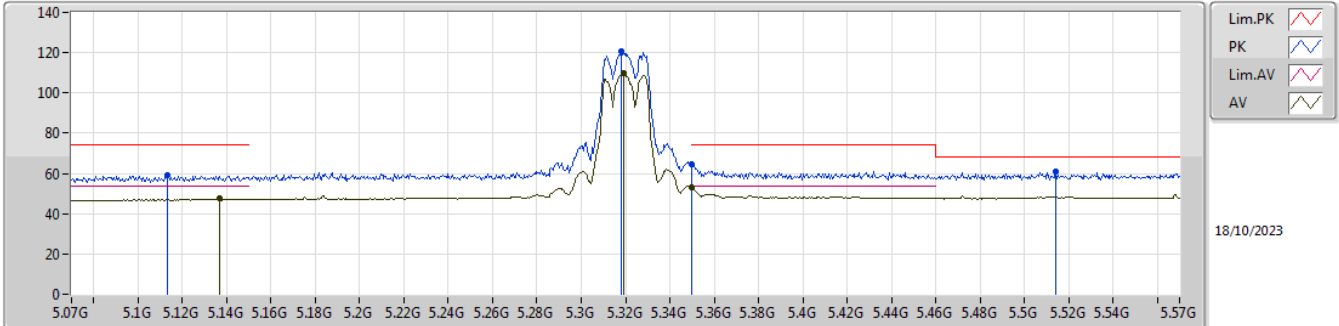


EUT_V_2TX
SET 21
21
3.95

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	5.148G	59.29	74.00	-14.71	51.94	3	Vertical	9	1.60	21	34.10	8.10	34.85			
AV	5.1315G	47.27	54.00	-6.73	39.98	3	Vertical	9	1.60	21	34.06	8.08	34.85			
PK	5.314G	119.68	Inf	-Inf	111.81	3	Vertical	9	1.60	21	34.36	8.38	34.87			
AV	5.324G	107.74	Inf	-Inf	99.82	3	Vertical	9	1.60	21	34.40	8.40	34.88			
PK	5.3555G	62.70	74.00	-11.30	54.64	3	Vertical	9	1.60	21	34.49	8.45	34.88			
AV	5.3525G	50.05	54.00	-3.95	41.99	3	Vertical	9	1.60	21	34.49	8.45	34.88			
PK	5.54G	60.64	68.20	-7.56	52.34	3	Vertical	9	1.60	21	34.60	8.62	34.92			

5.25-5.35GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

5320MHz_TX

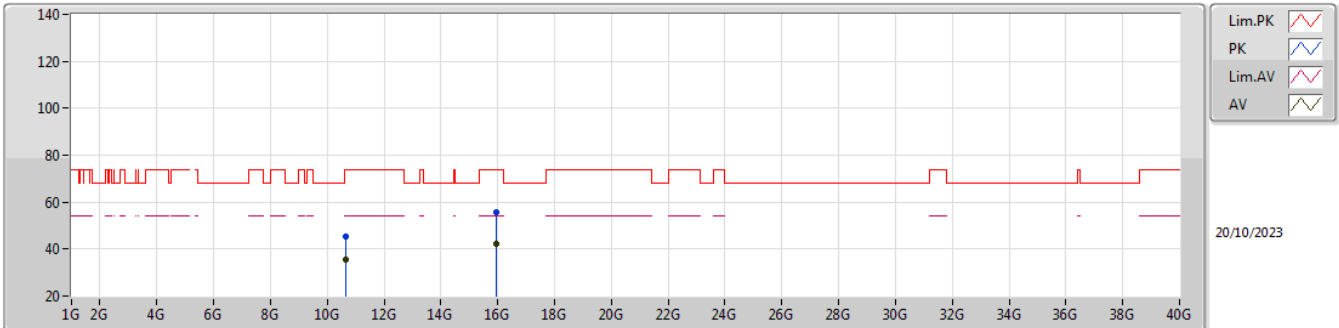


EUT_Y_2TX
SET 21
15\21\24\22.5\22\21.5\21
6.02\0.57\13.97\5.70\2.89\0.92\0.90

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	5.1135G	58.87	74.00	-15.13	51.64	3	Horizontal	352	1.54	21	34.03	8.05	34.85			
AV	5.137G	47.43	54.00	-6.57	40.12	3	Horizontal	352	1.54	21	34.07	8.09	34.85			
PK	5.318G	120.79	Inf	-Inf	112.90	3	Horizontal	352	1.54	21	34.37	8.39	34.87			
AV	5.319G	109.64	Inf	-Inf	101.74	3	Horizontal	352	1.54	21	34.38	8.39	34.87			
PK	5.35G	64.28	74.00	-9.72	56.21	3	Horizontal	352	1.54	21	34.50	8.45	34.88			
AV	5.35G	53.10	54.00	-0.90	45.03	3	Horizontal	352	1.54	21	34.50	8.45	34.88			
PK	5.514G	60.84	68.20	-7.36	52.55	3	Horizontal	352	1.54	21	34.60	8.60	34.91			

5.25-5.35GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

5320MHz_TX

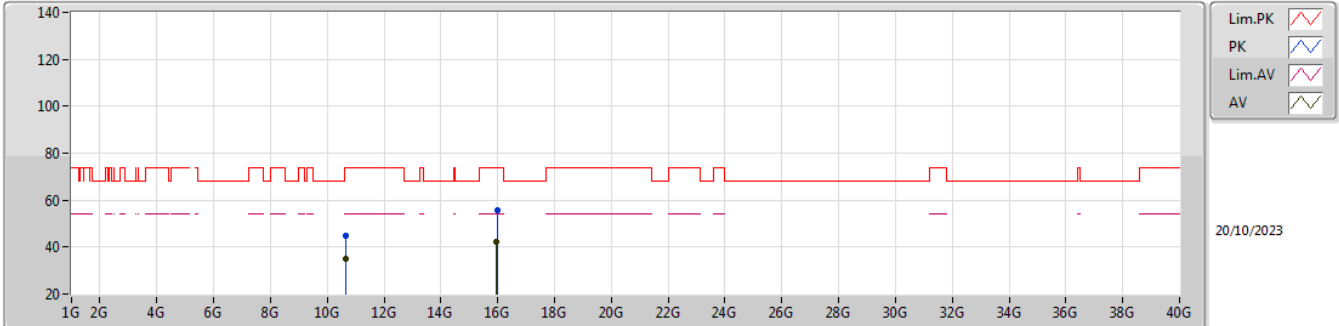


EUT_Y_2TX
SET 21

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	10.63992G	45.34	74.00	-28.66	37.71	3	Vertical	317	2.08	21	38.10	12.59	43.06			
AV	10.63996G	35.60	54.00	-18.40	27.97	3	Vertical	317	2.08	21	38.10	12.59	43.06			
PK	15.95616G	55.74	74.00	-18.26	39.44	3	Vertical	4	1.80	21	37.54	20.84	42.08			
AV	15.95604G	42.48	54.00	-11.52	26.18	3	Vertical	4	1.80	21	37.54	20.84	42.08			

5.25-5.35GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

5320MHz_TX

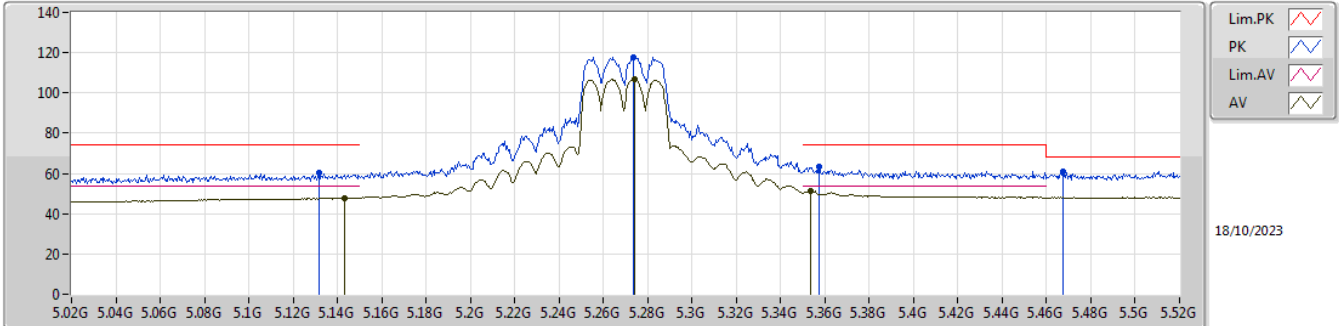


EUT_Y_2TX
SET 21

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	10.63992G	44.66	74.00	-29.34	37.03	3	Horizontal	308	1.80	21	38.10	12.59	43.06			
AV	10.64G	34.98	54.00	-19.02	27.35	3	Horizontal	308	1.80	21	38.10	12.59	43.06			
PK	15.97864G	55.92	74.00	-18.08	39.58	3	Horizontal	356	1.79	21	37.52	20.87	42.05			
AV	15.96676G	42.47	54.00	-11.53	26.15	3	Horizontal	356	1.79	21	37.53	20.86	42.07			

5.25-5.35GHz_802.11ax_HEW40_Nss1,(MCS0)_2TX

5270MHz_TX

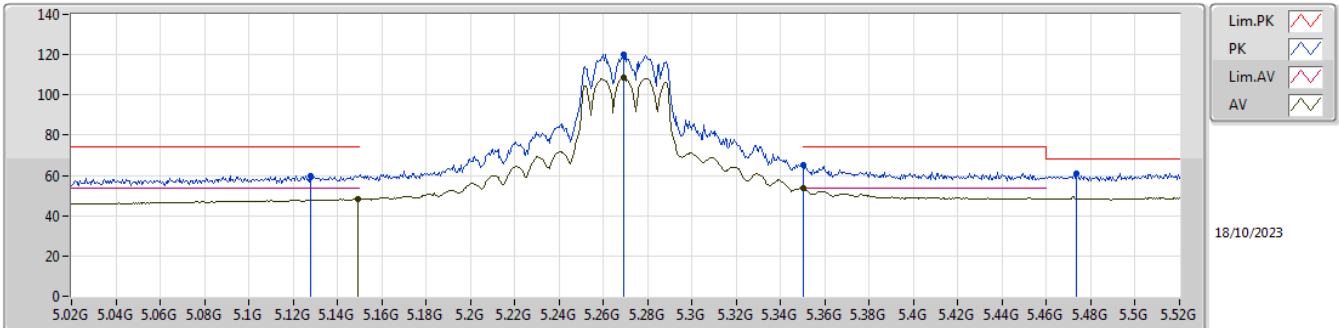


EUT_V_2TX
SET 22
22
2.68

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	5.1315G	60.24	74.00	-13.76	52.95	3	Vertical	9	1.32	22	34.06	8.08	34.85			
AV	5.143G	47.89	54.00	-6.11	40.55	3	Vertical	9	1.32	22	34.09	8.10	34.85			
PK	5.2735G	117.75	Inf	-Inf	110.17	3	Vertical	9	1.32	22	34.14	8.31	34.87			
AV	5.274G	107.07	Inf	-Inf	99.48	3	Vertical	9	1.32	22	34.14	8.32	34.87			
PK	5.3575G	63.30	74.00	-10.70	55.24	3	Vertical	9	1.32	22	34.48	8.46	34.88			
AV	5.3535G	51.32	54.00	-2.68	43.26	3	Vertical	9	1.32	22	34.49	8.45	34.88			
PK	5.4675G	60.83	68.20	-7.37	52.56	3	Vertical	9	1.32	22	34.60	8.57	34.90			

5.25-5.35GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

5270MHz_TX

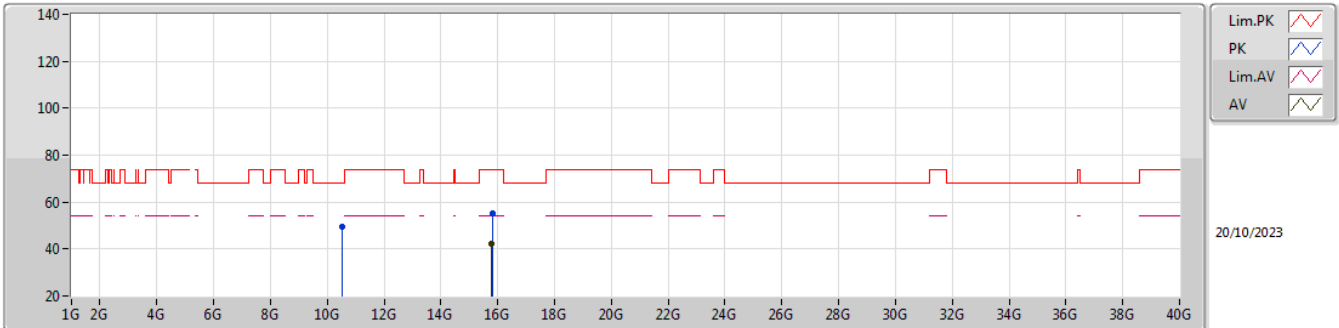


EUT_Y_2TX
SET 22
15\21\24\22.5\22
6.02\3.18\8.71\1.37\0.50

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	5.128G	59.93	74.00	-14.07	52.65	3	Horizontal	351	1.55	22	34.06	8.07	34.85			
AV	5.149G	48.24	54.00	-5.76	40.88	3	Horizontal	351	1.55	22	34.10	8.11	34.85			
PK	5.269G	120.37	Inf	-Inf	112.82	3	Horizontal	351	1.55	22	34.11	8.31	34.87			
AV	5.269G	108.50	Inf	-Inf	100.95	3	Horizontal	351	1.55	22	34.11	8.31	34.87			
PK	5.35G	65.06	74.00	-8.94	56.99	3	Horizontal	351	1.55	22	34.50	8.45	34.88			
AV	5.35G	53.50	54.00	-0.50	45.43	3	Horizontal	351	1.55	22	34.50	8.45	34.88			
PK	5.4735G	61.08	68.20	-7.12	52.80	3	Horizontal	351	1.55	22	34.60	8.58	34.90			

5.25-5.35GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

5270MHz_TX

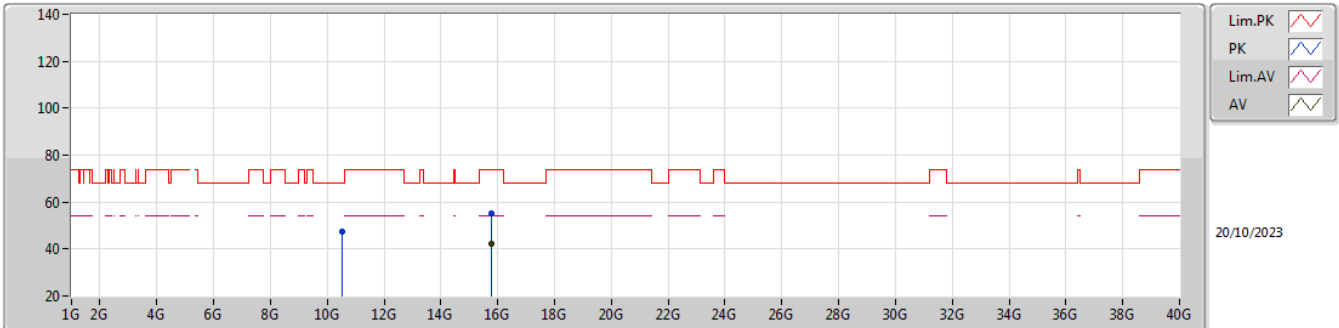


EUT_Y_2TX
SET 22

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	10.53992G	49.55	68.20	-18.65	42.04	3	Vertical	333	1.64	22	38.04	12.51	43.04			
PK	15.83328G	55.40	74.00	-18.60	39.41	3	Vertical	48	1.28	22	37.53	20.68	42.22			
AV	15.77096G	42.16	54.00	-11.84	26.20	3	Vertical	48	1.28	22	37.67	20.59	42.30			

5.25-5.35GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

5270MHz_TX

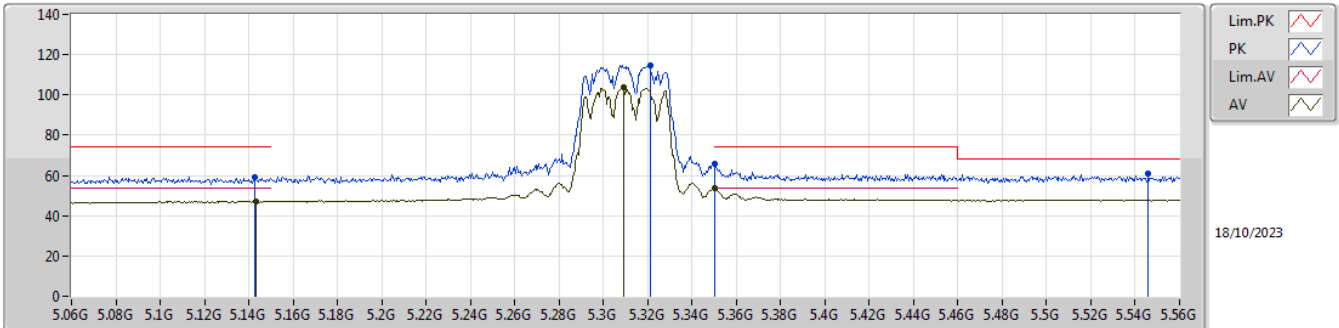


EUT Y_2TX
SET 22

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	10.53976G	47.37	68.20	-20.83	39.86	3	Horizontal	12	1.76	22	38.04	12.51	43.04			
PK	15.7708G	55.43	74.00	-18.57	39.46	3	Horizontal	316	1.80	22	37.68	20.59	42.30			
AV	15.77192G	42.09	54.00	-11.91	26.11	3	Horizontal	316	1.80	22	37.67	20.60	42.29			

5.25-5.35GHz_802.11ax_HEW40_Nss1,(MCS0)_2TX

5310MHz_TX

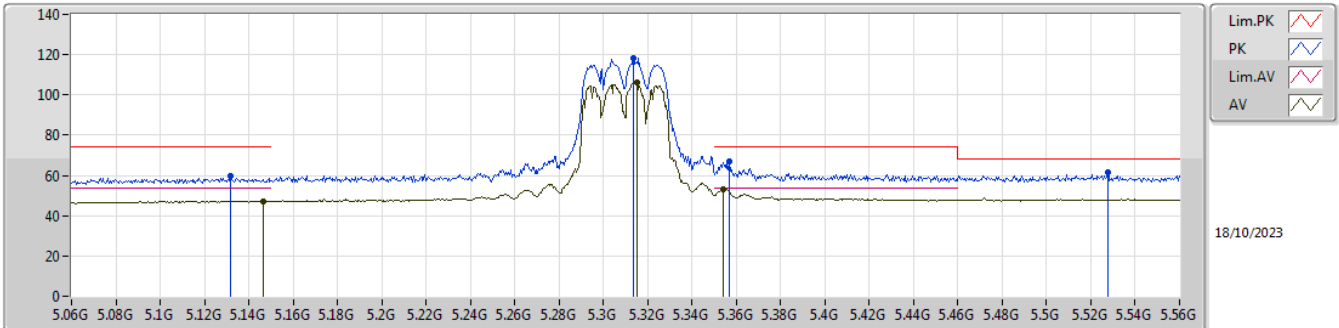


EUT_V_2TX
SET 19
19
0.39

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	5.1425G	59.11	74.00	-14.89	51.77	3	Vertical	348	1.47	19	34.09	8.10	34.85			
AV	5.143G	46.99	54.00	-7.01	39.65	3	Vertical	348	1.47	19	34.09	8.10	34.85			
PK	5.321G	114.95	Inf	-Inf	107.04	3	Vertical	348	1.47	19	34.38	8.40	34.87			
AV	5.309G	104.03	Inf	-Inf	96.18	3	Vertical	348	1.47	19	34.34	8.38	34.87			
PK	5.3505G	65.49	74.00	-8.51	57.42	3	Vertical	348	1.47	19	34.50	8.45	34.88			
AV	5.35G	53.61	54.00	-0.39	45.54	3	Vertical	348	1.47	19	34.50	8.45	34.88			
PK	5.546G	60.82	68.20	-7.38	52.52	3	Vertical	348	1.47	19	34.60	8.62	34.92			

5.25-5.35GHz_802.11ax_HEW40_Nss1,(MCS0)_2TX

5310MHz_TX

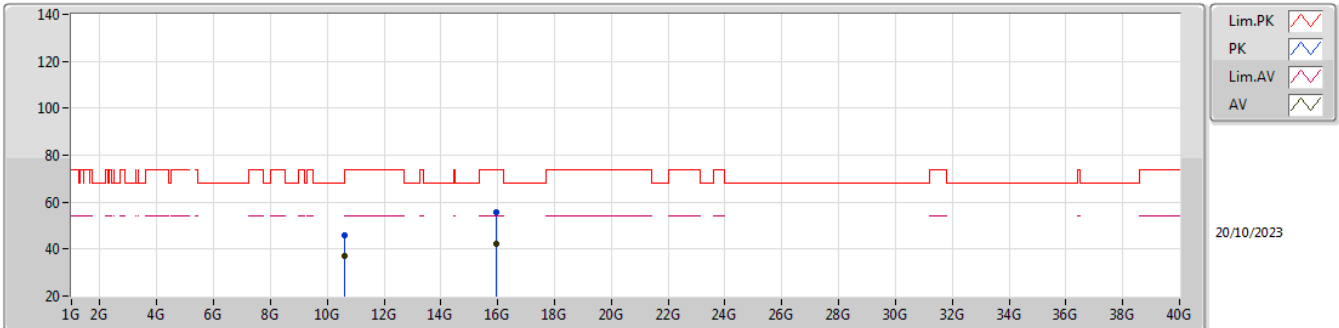


EUT_V_2TX
SET 19
15\21\18\19.5\19
5.16\6.90\2.64\0.92\0.69

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	5.1315G	60.04	74.00	-13.96	52.75	3	Horizontal	350	1.42	19	34.06	8.08	34.85			
AV	5.1465G	47.22	54.00	-6.78	39.88	3	Horizontal	350	1.42	19	34.09	8.10	34.85			
PK	5.3135G	118.21	Inf	-Inf	110.35	3	Horizontal	350	1.42	19	34.35	8.38	34.87			
AV	5.315G	105.95	Inf	-Inf	98.07	3	Horizontal	350	1.42	19	34.36	8.39	34.87			
PK	5.357G	66.78	74.00	-7.22	58.71	3	Horizontal	350	1.42	19	34.49	8.46	34.88			
AV	5.354G	53.31	54.00	-0.69	45.25	3	Horizontal	350	1.42	19	34.49	8.45	34.88			
PK	5.5275G	61.47	68.20	-6.73	53.17	3	Horizontal	350	1.42	19	34.60	8.61	34.91			

5.25-5.35GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

5310MHz_TX

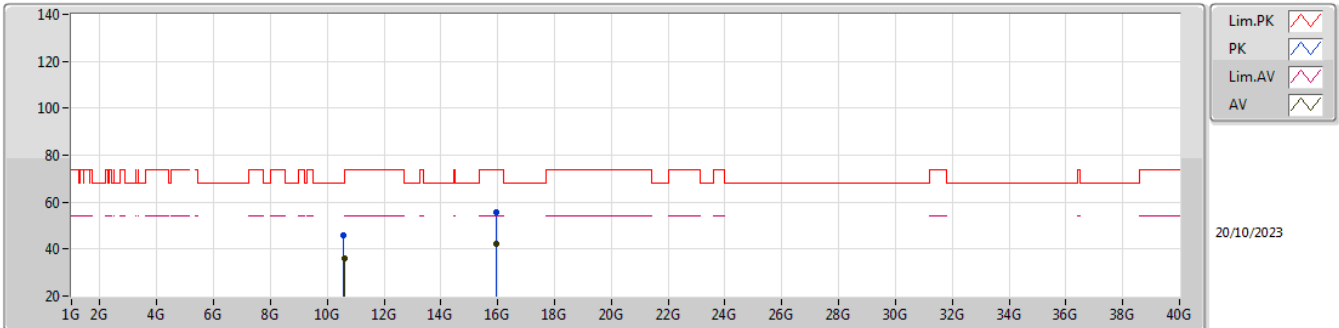


EUT_Y_2TX
SET 19

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	10.62G	45.61	74.00	-28.39	37.99	3	Vertical	336	1.69	19	38.10	12.57	43.05			
AV	10.62G	36.88	54.00	-17.12	29.26	3	Vertical	336	1.69	19	38.10	12.57	43.05			
PK	15.93408G	55.82	74.00	-18.18	39.55	3	Vertical	241	1.06	19	37.57	20.81	42.11			
AV	15.9676G	42.25	54.00	-11.75	25.93	3	Vertical	241	1.06	19	37.53	20.86	42.07			

5.25-5.35GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

5310MHz_TX

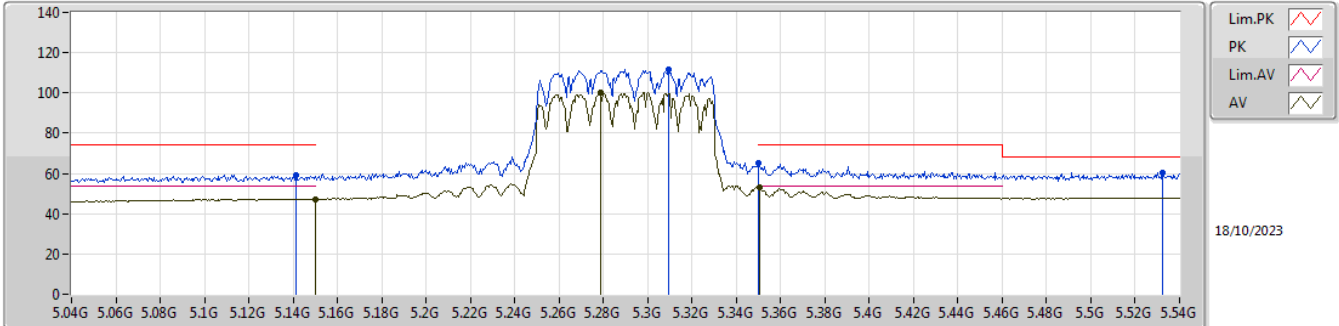


EUT_Y_2TX
SET 19

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	10.58848G	45.68	68.20	-22.52	38.09	3	Horizontal	11	1.80	19	38.09	12.55	43.05			
AV	10.62G	35.90	54.00	-18.10	28.28	3	Horizontal	11	1.80	19	38.10	12.57	43.05			
PK	15.95776G	55.48	74.00	-18.52	39.18	3	Horizontal	338	1.80	19	37.54	20.84	42.08			
AV	15.96816G	42.16	54.00	-11.84	25.84	3	Horizontal	338	1.80	19	37.53	20.86	42.07			

5.25-5.35GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

5290MHz_TX

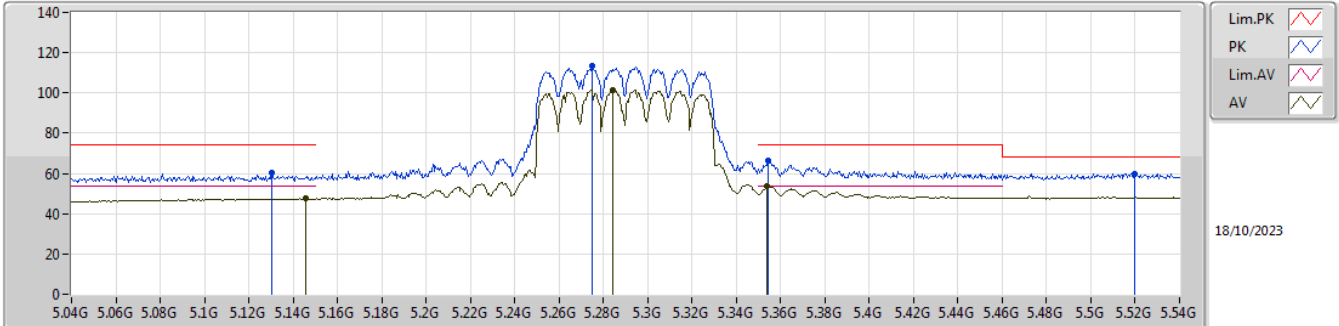


EUT_V_2TX
SET 18
18
1.13

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	5.1415G	59.22	74.00	-14.78	51.90	3	Vertical	13	1.53	18	34.08	8.09	34.85			
AV	5.15G	47.37	54.00	-6.63	40.01	3	Vertical	13	1.53	18	34.10	8.11	34.85			
PK	5.3095G	111.62	Inf	-Inf	103.77	3	Vertical	13	1.53	18	34.34	8.38	34.87			
AV	5.279G	100.39	Inf	-Inf	92.77	3	Vertical	13	1.53	18	34.17	8.32	34.87			
PK	5.35G	65.17	74.00	-8.83	57.10	3	Vertical	13	1.53	18	34.50	8.45	34.88			
AV	5.3505G	52.87	54.00	-1.13	44.80	3	Vertical	13	1.53	18	34.50	8.45	34.88			
PK	5.5325G	60.43	68.20	-7.77	52.13	3	Vertical	13	1.53	18	34.60	8.62	34.92			

5.25-5.35GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

5290MHz_TX

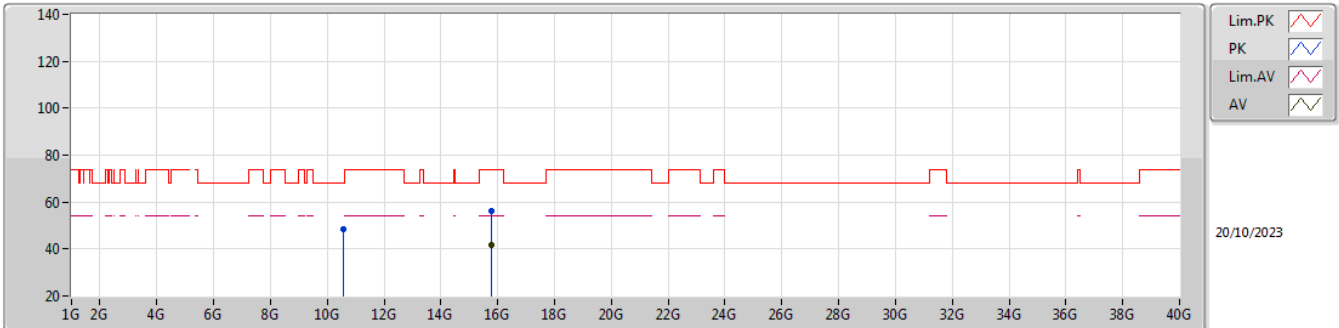


EUT_V_2TX
SET 18
15\18\19.5\19\18.5\18
2.25\0.55\2.83\0.91\0.07\0.47

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	5.1305G	60.33	74.00	-13.67	53.04	3	Horizontal	350	1.70	18	34.06	8.08	34.85			
AV	5.1455G	47.50	54.00	-6.50	40.16	3	Horizontal	350	1.70	18	34.09	8.10	34.85			
PK	5.275G	113.69	Inf	-Inf	106.09	3	Horizontal	350	1.70	18	34.15	8.32	34.87			
AV	5.284G	101.39	Inf	-Inf	93.73	3	Horizontal	350	1.70	18	34.20	8.33	34.87			
PK	5.3545G	66.18	74.00	-7.82	58.12	3	Horizontal	350	1.70	18	34.49	8.45	34.88			
AV	5.354G	53.53	54.00	-0.47	45.47	3	Horizontal	350	1.70	18	34.49	8.45	34.88			
PK	5.5195G	59.98	68.20	-8.22	51.68	3	Horizontal	350	1.70	18	34.60	8.61	34.91			

5.25-5.35GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

5290MHz_TX

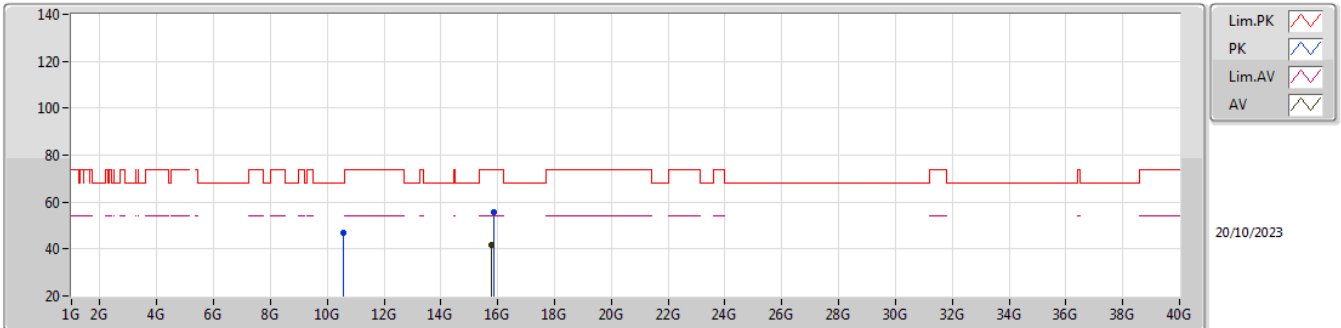


EUT_Y_2TX
SET 18

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	10.58016G	48.19	68.20	-20.01	40.62	3	Vertical	334	1.80	18	38.08	12.54	43.05			
PK	15.79496G	56.33	74.00	-17.67	40.44	3	Vertical	11	1.80	18	37.53	20.63	42.27			
AV	15.7932G	41.77	54.00	-12.23	25.88	3	Vertical	11	1.80	18	37.54	20.62	42.27			

5.25-5.35GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

5290MHz_TX



EUT_Y_2TX
SET 18

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	10.57984G	46.66	68.20	-21.54	39.09	3	Horizontal	12	1.77	18	38.08	12.54	43.05			
PK	15.87384G	55.52	74.00	-18.48	39.40	3	Horizontal	236	1.05	18	37.57	20.73	42.18			
AV	15.79176G	41.78	54.00	-12.22	25.88	3	Horizontal	236	1.05	18	37.55	20.62	42.27			