

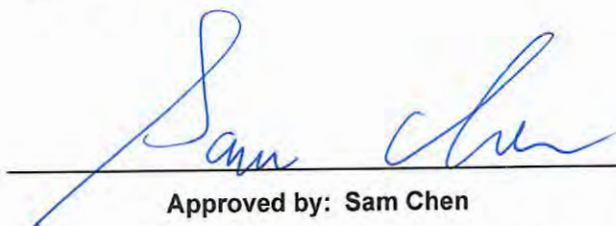


RADIO TEST REPORT

FCC ID : 2AU6R03993
Equipment : Security Router
Brand Name : ZYXEL
Model Name : SCR 60AX
Applicant : Zyxel Networks Corporation
No.2 Industry East RD. IX, Hsinchu Science Park,
Hsinchu 30075, Taiwan, R.O.C
Manufacturer : Zyxel Networks Corporation
No.2 Industry East RD. IX, Hsinchu Science Park,
Hsinchu 30075, Taiwan, R.O.C
Standard : 47 CFR FCC Part 15.407

The product was received on Jul. 12, 2023, and testing was started from Aug. 24, 2023 and completed on Oct. 27, 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 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.)



Table of Contents

History of this test report.....	3
Summary of Test Result.....	4
1 General Description	5
1.1 Information.....	5
1.2 Applicable Standards	10
1.3 Testing Location Information	10
1.4 Measurement Uncertainty	11
2 Test Configuration of EUT.....	12
2.1 Test Channel Mode	12
2.2 The Worst Case Measurement Configuration.....	13
2.3 EUT Operation during Test	14
2.4 Accessories	15
2.5 Support Equipment.....	15
2.6 Test Setup Diagram	16
3 Transmitter Test Result	19
3.1 AC Power-line Conducted Emissions	19
3.2 Emission Bandwidth	21
3.3 Maximum EIRP Output Power	22
3.4 EIRP Power Spectral Density.....	24
3.5 Unwanted Emissions.....	27
4 Test Equipment and Calibration Data	32
Appendix A. Test Results of AC Power-line Conducted Emissions	
Appendix B. Test Results of Emission Bandwidth	
Appendix C. Test Results of Maximum Output Power	
Appendix D. Test Results of Power Spectral Density	
Appendix E. Test Results of Unwanted Emissions	
Appendix F. Test Results of Radiated Emission Co-location	
Appendix G. Test Photos	
Photographs of EUT v01	



TEL : 886-3-656-9065
FAX : 886-3-656-9085
Report Template No.: CB-A12_6 Ver1.0



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 EIRP Output Power	PASS	-
3.4	15.407(a)	EIRP 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
5725-5895	a, n (HT20), ac (VHT20), ax (HEW20)	5845-5885	169-177[3]
5725-5895	n (HT40), ac (VHT40), ax (HEW40)	5835-5875	167-175[2]
5725-5895	ac (VHT80), ax (HEW80)	5855	171[1]
5725-5895	ac (VHT160), ax (HEW160)	5815	163[1]

Band	Mode	BWch (MHz)	Nant
5.725G-5.895G	802.11a	20	4TX
5.725G-5.895G	802.11n HT20	20	4TX
5.725G-5.895G	802.11n HT20-BF	20	4TX
5.725G-5.895G	802.11ac VHT20	20	4TX
5.725G-5.895G	802.11ac VHT20-BF	20	4TX
5.725G-5.895G	802.11ax HEW20	20	4TX
5.725G-5.895G	802.11ax HEW20-BF	20	4TX
5.725G-5.895G	802.11n HT40	40	4TX
5.725G-5.895G	802.11n HT40-BF	40	4TX
5.725G-5.895G	802.11ac VHT40	40	4TX
5.725G-5.895G	802.11ac VHT40-BF	40	4TX
5.725G-5.895G	802.11ax HEW40	40	4TX
5.725G-5.895G	802.11ax HEW40-BF	40	4TX
5.725G-5.895G	802.11ac VHT80	80	4TX
5.725G-5.895G	802.11ac VHT80-BF	80	4TX
5.725G-5.895G	802.11ax HEW80	80	4TX
5.725G-5.895G	802.11ax HEW80-BF	80	4TX
5.725G-5.895G	802.11ac VHT160	160	4TX
5.725G-5.895G	802.11ac VHT160-BF	160	4TX
5.725G-5.895G	802.11ax HEW160	160	4TX
5.725G-5.895G	802.11ax HEW160-BF	160	4TX



Note:

- ♦ 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ VHT20, VHT40, VHT80 and VHT160 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- ♦ HEW20, HEW40, HEW80 and HEW160 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ♦ BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Port			Brand	Model Name	Antenna Type	Connector	Gain (dBi)
	2.4GHz	5GHz	Bluetooth					
1	1	-	-	PSA	WA-P-LA-06-008	PCB	I-PEX	Note1
2	2	-	-	PSA	WA-P-LA-05-015	PCB	I-PEX	
3	-	1	-	PSA	WA-P-LC-02-086	PCB	I-PEX	
4	-	2	-	PSA	WA-P-LC-03-025	PCB	I-PEX	
5	3	3	-	PSA	WA-P-LB-11-003	PCB	I-PEX	
6	4	4	-	PSA	WA-P-LB-01-323	PCB	I-PEX	
7	-	-	1	PSA	BT	Printed	N/A	

Note1:

Ant.	Gain (dBi)							
	WLAN 2.4GHz 2400~2500 MHz	WLAN 5GHz 5150~5250 MHz	WLAN 5GHz 5251~5300 MHz	WLAN 5GHz 5301~5490 MHz	WLAN 5GHz 5491~5725 MHz	WLAN 5GHz 5726~5835 MHz	WLAN 5GHz 5836~5930 MHz	Bluetooth
1	2.74	-	-	-	-	-	-	-
2	3.65	-	-	-	-	-	-	-
3	-	4.46	4.54	4.26	4.07	4.07	4.01	-
4	-	4.44	4.33	4.26	4.63	4.58	4.61	-
5	3.44	4.51	4.60	4.60	4.15	4.61	4.57	-
6	3.61	4.36	3.83	3.88	4.01	4.38	4.22	-
7	-	-	-	-	-	-	-	1.93

Note2: The above information was declared by manufacturer.

For 2.4GHz function:

For IEEE 802.11b/g/n/VHT/ax mode (4TX/4RX):

Port 1, Port 2, Port 3 and Port 4 can be used as transmitting/receiving antenna.

Port 1, Port 2, Port 3 and Port 4 could transmit/receive simultaneously.

For 5GHz function:

For IEEE 802.11a/n/ac/ax mode (4TX/4RX):

Port 1, Port 2, Port 3 and Port 4 can be used as transmitting/receiving antenna.

Port 1, Port 2, Port 3 and Port 4 could transmit/receive simultaneously.

For Bluetooth function(1TX/1RX):

Port 1 can be used as transmitting/receiving antenna.

Port 1 could transmit/receive simultaneously.

Note 3: 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 $N_{ANT} \leq 4$	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{ANT}} \left(\sum_{k=1}^{N_{ANT}} \xi_{j,k} \right)^2}{N_{ANT}} \right]$
BF	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{ANT}} \left(\sum_{k=1}^{N_{ANT}} \xi_{j,k} \right)^2}{N_{ANT}} \right]$	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{ANT}} \left(\sum_{k=1}^{N_{ANT}} \xi_{j,k} \right)^2}{N_{ANT}} \right]$

Ex.

Directional Gain (NSS1) formula :

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

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

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

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

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

Where ;

$$2.4G \ G1 = 2.74 \text{ dBi} ; G2 = 3.65 \text{ dBi} ; G3 = 3.44 \text{ dBi} ; G4 = 3.61 \text{ dBi}$$

$$5G \text{ UNII-1} \ G1 = 4.46 \text{ dBi} ; G2 = 4.44 \text{ dBi} ; G3 = 4.51 \text{ dBi} ; G4 = 4.36 \text{ dBi}$$

$$5G \text{ UNII-2A} \ G1 = 4.54 \text{ dBi} ; G2 = 4.33 \text{ dBi} ; G3 = 4.60 \text{ dBi} ; G4 = 3.83 \text{ dBi}$$

$$5G \text{ UNII-2C} \ G1 = 4.07 \text{ dBi} ; G2 = 4.63 \text{ dBi} ; G3 = 4.15 \text{ dBi} ; G4 = 4.01 \text{ dBi}$$

$$5G \text{ UNII-3} \ G1 = 4.07 \text{ dBi} ; G2 = 4.58 \text{ dBi} ; G3 = 4.61 \text{ dBi} ; G4 = 4.38 \text{ dBi}$$

$$5G \text{ UNII-4} \ G1 = 4.01 \text{ dBi} ; G2 = 4.61 \text{ dBi} ; G3 = 4.57 \text{ dBi} ; G4 = 4.22 \text{ dBi}$$

$$2.4G \ DG = 9.39 \text{ dBi}$$

$$5G \text{ UNII-1} \ DG = 10.46 \text{ dBi}$$

$$5G \text{ UNII-2A} \ DG = 10.35 \text{ dBi}$$

$$5G \text{ UNII-2C} \ DG = 10.24 \text{ dB}$$

$$5G \text{ UNII-3} \ DG = 10.43 \text{ dBi}$$

$$5G \text{ UNII-4} \ DG = 10.38 \text{ dBi}$$

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11a	0.955	0.2	1.397m	1k
802.11ax HEW20	0.863	0.64	348.125u	3k
802.11ax HEW20-BF	0.847	0.72	316.563u	10k
802.11ax HEW40	0.85	0.71	347.625u	3k
802.11ax HEW40-BF	0.843	0.74	312.5u	10k
802.11ax HEW80	0.849	0.71	338.25u	3k
802.11ax HEW80-BF	0.841	0.75	297.188u	10k
802.11ax HEW160	0.85	0.71	334.125u	3k
802.11ax HEW160-BF	0.837	0.77	297.188u	10k

Note:

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

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter			
Beamforming Function	<input checked="" type="checkbox"/>	With beamforming	<input type="checkbox"/>	Without beamforming
	The product has beamforming function for 11n/VHT/11ax in 2.4GHz, 11n/11ac/11ax in 5GHz.			
Function	<input checked="" type="checkbox"/>	Point-to-multipoint	<input type="checkbox"/>	Point-to-point
Device Type	<input checked="" type="checkbox"/>	Indoor Access Point	<input type="checkbox"/>	Subordinate
	<input type="checkbox"/>	Indoor Client		
Channel Puncturing Function	<input type="checkbox"/>	Supported	<input checked="" type="checkbox"/>	Unsupported
Support RU	<input checked="" type="checkbox"/>	Full RU	<input type="checkbox"/>	Partial RU
Test Software Version	Qatool 0.0.2.97			

Note: The above information was declared by manufacturer.



1.2 Applicable Standards

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

- ♦ 47 CFR FCC Part 15
- ♦ 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
- ♦ FCC KDB 291074 D02 v01

1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH01-CB	Eason Chen	24.2-25.1 / 61-68	Aug. 28, 2023~ Oct. 17, 2023
Radiated below 1GHz	03CH05-CB	Mark Hsu	22.2-23.3 / 56-59	Apr. 28, 2009
Radiated above 1GHz	03CH05-CB	Mark Hsu	22.2-23.3 / 56-59	Aug. 24, 2023~ Oct. 16, 2023
	03CH06-CB		22.4-23.5 / 55-58	
AC Conduction	CO01-CB	Elvin Yeh	21~23 / 51~53	Apr. 28, 2009



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

Mode	Power Setting
802.11a_Nss1,(6Mbps)_4TX	-
5845MHz	15.5
5865MHz	13.5
5885MHz	13.5
802.11ax HEW20_Nss1,(MCS0)_4TX	-
5845MHz	15.5
5865MHz	14
5885MHz	14.5
802.11ax HEW40_Nss1,(MCS0)_4TX	-
5835MHz	20
5875MHz	16
802.11ax HEW80_Nss1,(MCS0)_4TX	-
5855MHz	19.5
802.11ax HEW160_Nss1,(MCS0)_4TX	-
5815MHz	18.5
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-
5845MHz	15.5
5865MHz	14
5885MHz	14.5
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-
5835MHz	17.5
5875MHz	16
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-
5855MHz	18.5
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-
5815MHz	18.5

Note:

- ♦ Evaluated HEW20/HEW40/HEW80/HEW160 mode only due to the similar modulation. The power setting of HT20/HT40/VHT20/VHT40/VHT80/VHT160 mode are the same or lower than HEW20/HEW40/HEW80/HEW160.
- ♦ The EUT supports non-beamforming and beamforming modes, after evaluating, the non-beamforming mode has been selected to execute all tests. The beamforming mode evaluates the output power only.

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	EUT + WLAN 2.4GHz + Adapter
2	EUT + WLAN 5GHz + Adapter
3	EUT + Bluetooth + Adapter
For operating mode 3 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 EIRP Output Power EIRP Power Spectral Density
Test Condition	Conducted measurement at transmit chains

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
After evaluating, EUT in Y axis was the worst case, so the measurement will follow this same test configuration.	
1	EUT in Y axis + WLAN 2.4GHz + Adapter
2	EUT in Y axis + WLAN 5GHz + Adapter
3	EUT in Y axis + Bluetooth + Adapter
For operating mode 1 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
After evaluating, EUT in Y axis was the worst case, so the measurement will follow this same test configuration.	
1	EUT in Y axis



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode	Normal Link
After evaluating, EUT in Y axis was the worst case, so the measurement will follow this same test configuration.	
1	EUT in Y axis WLAN 2.4GHz + WALN 5GHz
Refer to Appendix G for Radiated Emission Co-location.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 2.4GHz + WALN 5GHz
Refer to Sporton Test Report No.: FA352214 for Co-location RF Exposure Evaluation.	

2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link Mode:

During the test, the EUT operation to normal function.



2.4 Accessories

Accessories			
Equipment Name	Brand Name	Model Name	Rating
Adapter	APD	WA-36W12R	Input: 100-240V~, 50-60Hz, 0.9A Max Output: 12.0V, 3.0A, 36.0W
Other			
Plug*1			

2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	LAN NB	DELL	E6430	N/A

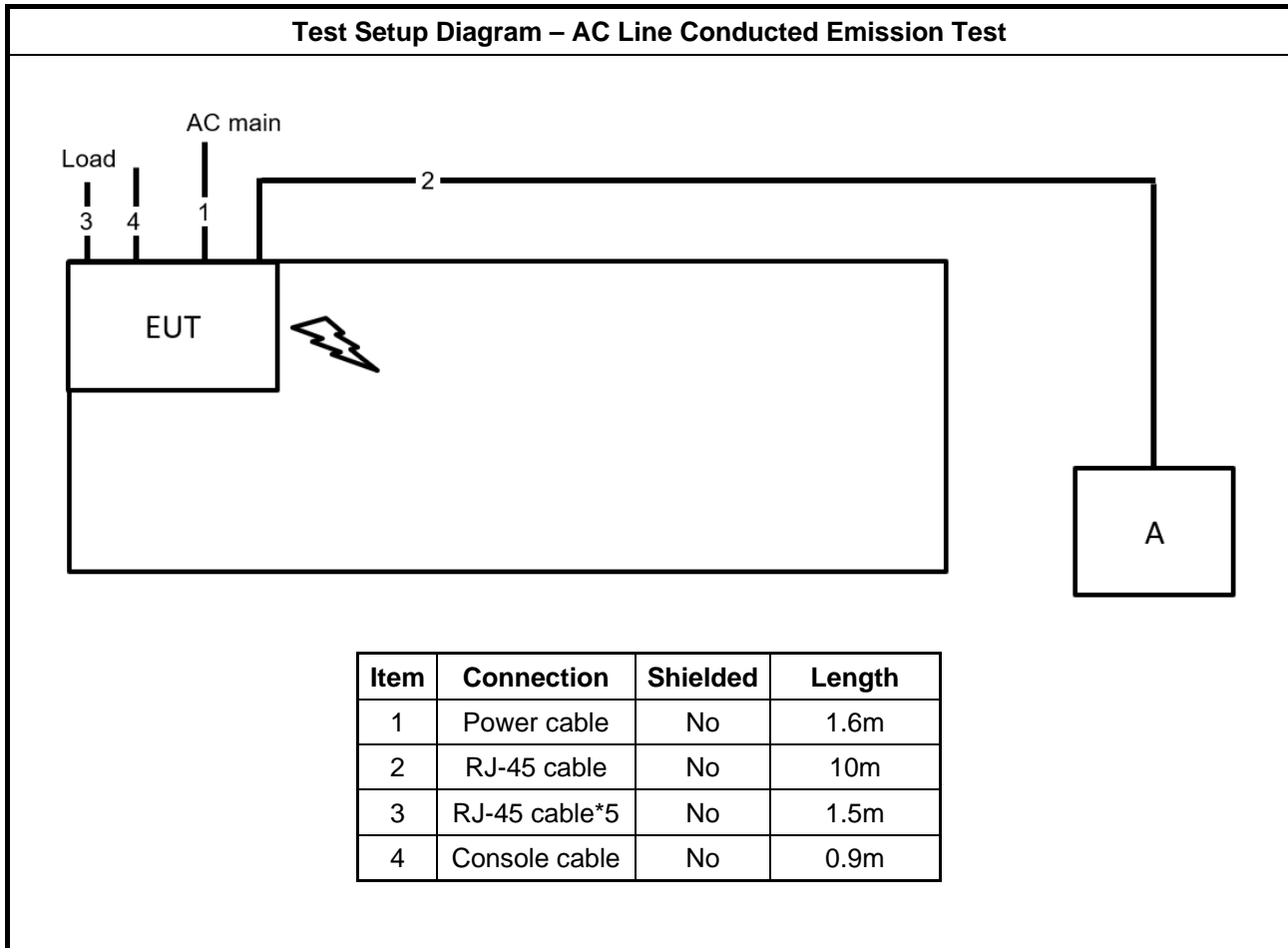
For Radiated (below 1GHz) and Radiated (above 1GHz):

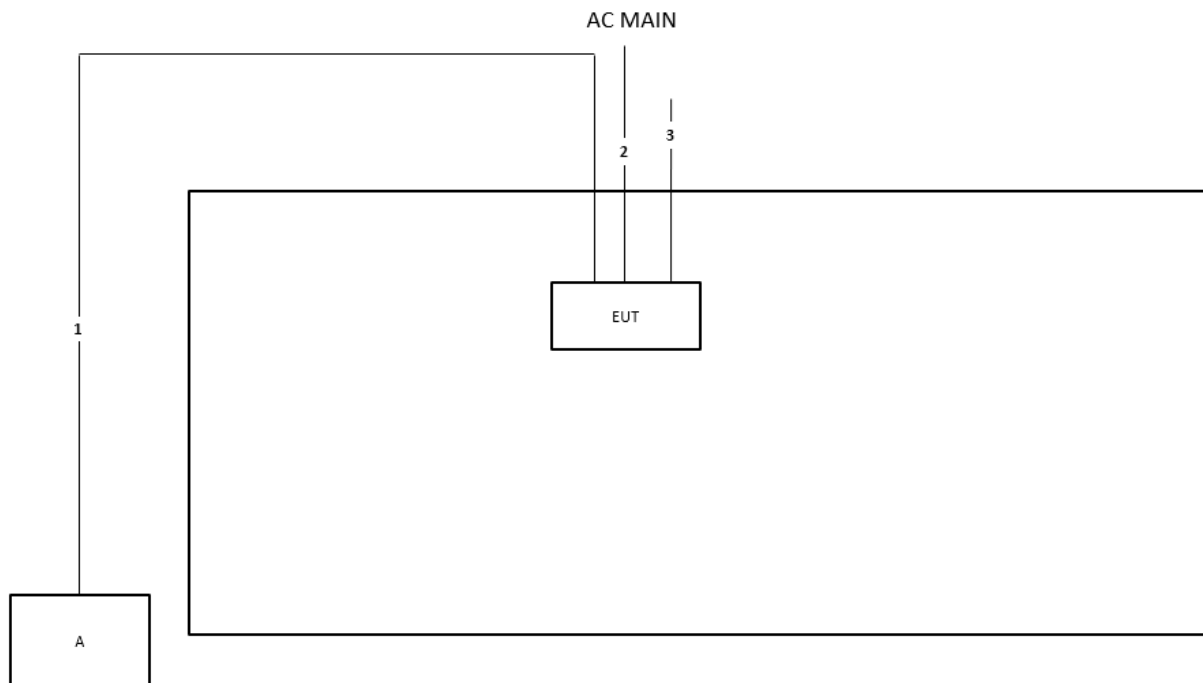
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A

For RF Conducted:

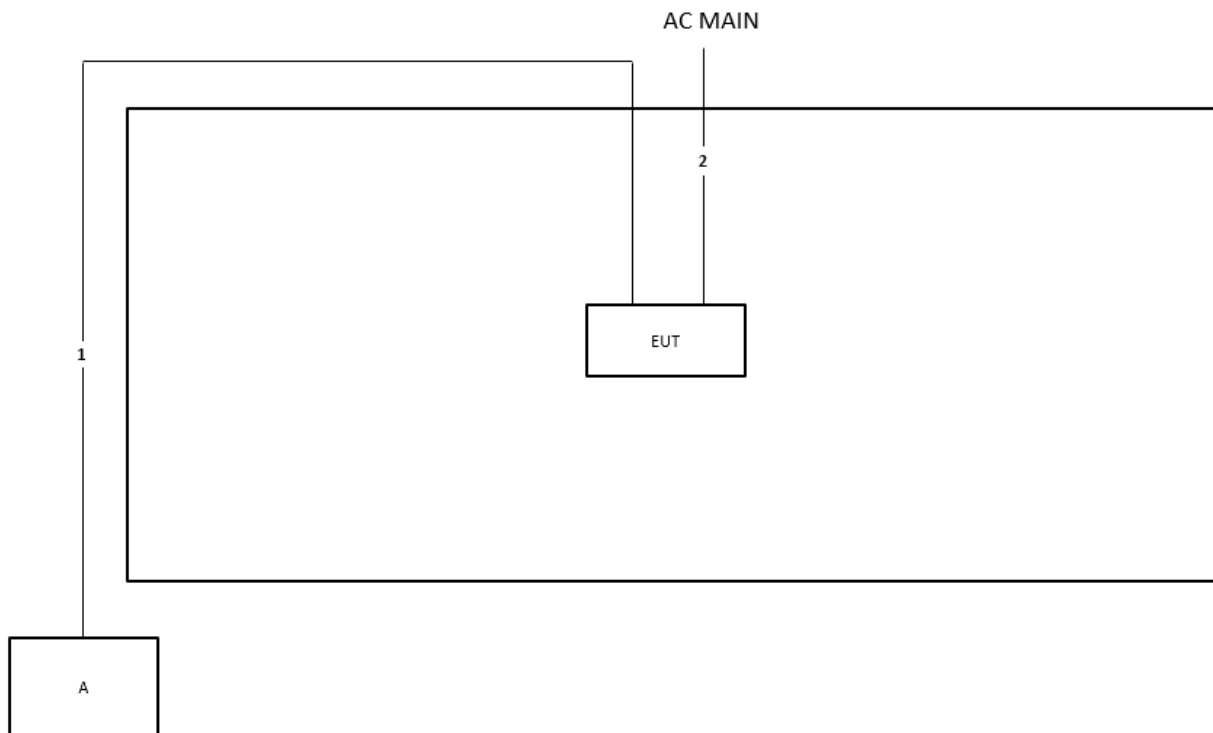
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test < 1GHz


Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	Power cable	No	1.6m
3	Console cable	No	0.9m

Test Setup Diagram - Radiated Test > 1GHz


Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	Power cable	No	1.6m



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

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

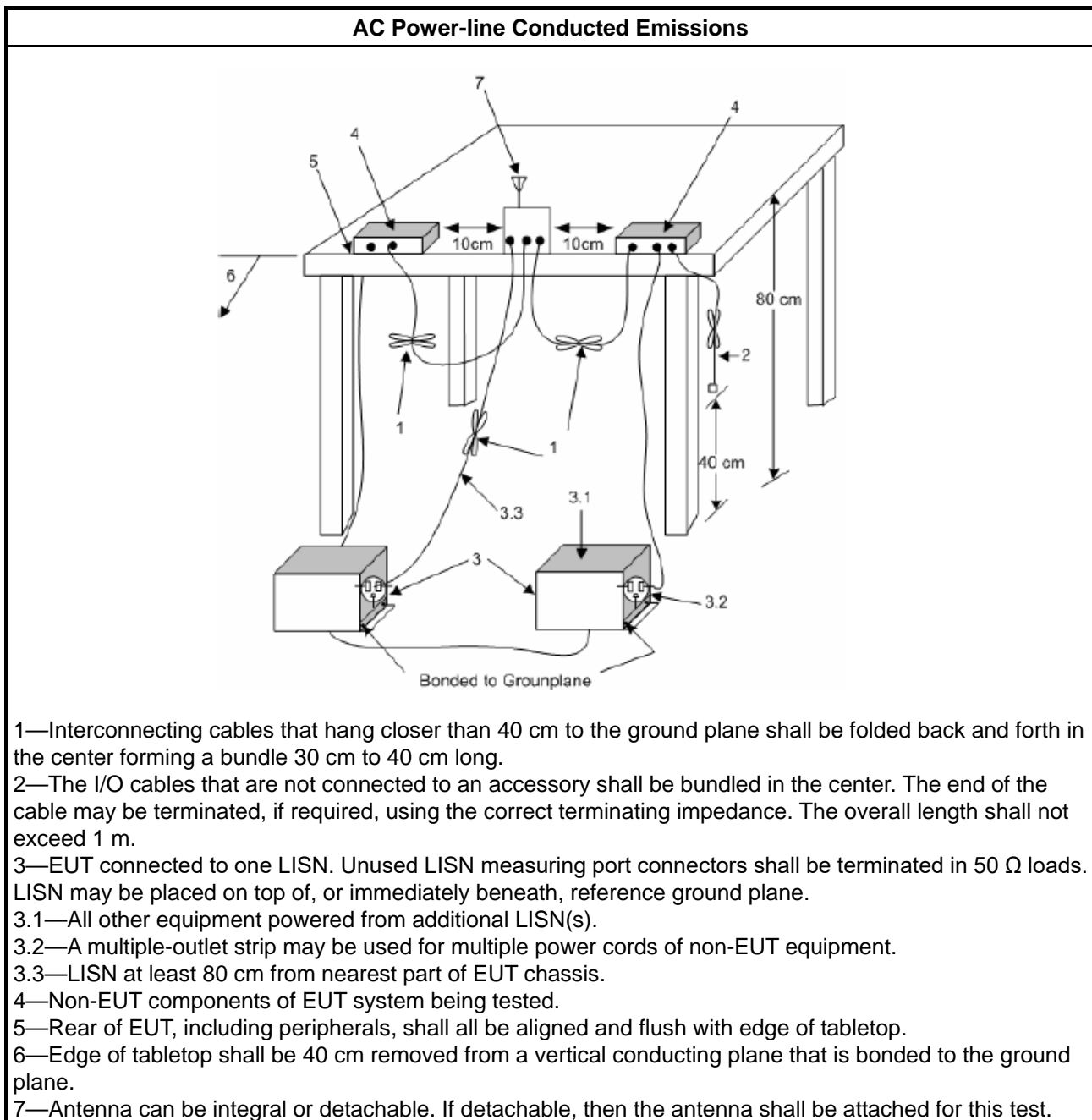
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup



3.1.5 Measurement Results Calculation

The measured Level is calculated using:

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

3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

Emission Bandwidth Limit	
UNII Devices	
<input checked="" type="checkbox"/>	For the 5.85-5.895 GHz band, 26 dB emission bandwidth ,N/A. 6 dB emission bandwidth \geq 500kHz.

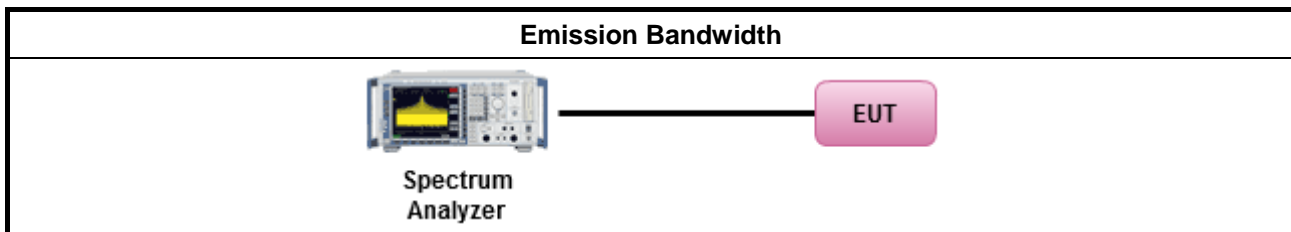
3.2.2 Measuring Instruments

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:	
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 D02, clause C for EBW and clause D for OBW measurement.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.
<input type="checkbox"/>	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 EIRP Output Power

3.3.1 Limit

Maximum EIRP Output Power Limit	
UNII Devices	
<input checked="" type="checkbox"/>	For the 5.85-5.895 GHz band:
<input type="checkbox"/>	Indoor AP & subordinate device < 36 dBm
<input type="checkbox"/>	Client device < 30 dBm

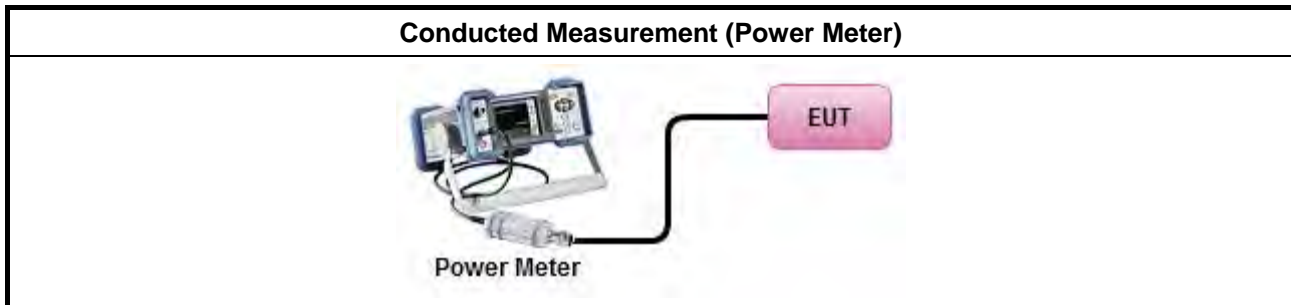
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
<input type="checkbox"/>	Average over on/off periods with duty factor
<input type="checkbox"/>	Refer as FCC KDB 789033 D02, clause E Method SA-2 (spectral trace averaging).
<input type="checkbox"/>	Refer as FCC KDB 789033 D02, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
<input type="checkbox"/>	Wideband RF power meter and average over on/off periods with duty factor
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 D02, clause E Method PM-G (using an RF average power meter).
<input checked="" type="checkbox"/>	For conducted measurement.
<input type="checkbox"/>	<ul style="list-style-type: none">If the EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.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]) $EIRP_{total} = P_{total} + DG$
<input type="checkbox"/>	For radiated measurement.
<input type="checkbox"/>	<ul style="list-style-type: none">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 EIRP Output Power

Refer as Appendix C



3.4 EIRP Power Spectral Density

3.4.1 Limit

EIRP Power Spectral Density Limit	
UNII Devices	
<input checked="" type="checkbox"/> For the 5.85-5.895 GHz band:	
	▪ Indoor AP & subordinate device < 20dBm/MHz
	▪ Client device < 14dBm/MHz

3.4.2 Measuring Instruments

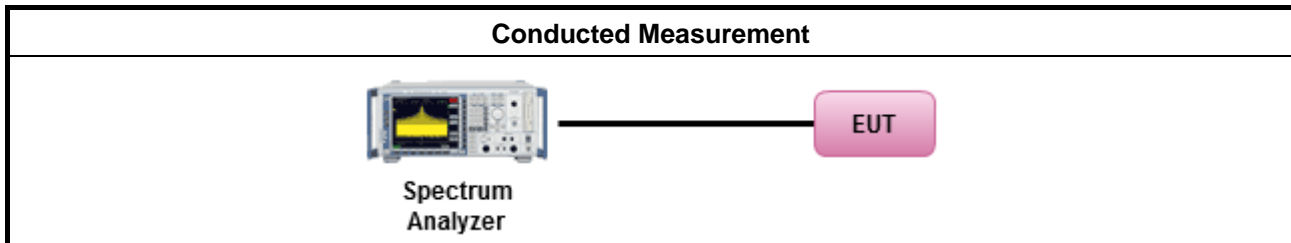
Refer a test equipment and calibration data table in this test report.

**3.4.3 Test Procedures**

Test Method	
<ul style="list-style-type: none">Peak power spectral density procedures that the same method as used to determine the conducted output power 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:	
<input type="checkbox"/>	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]	
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 D02, clause E Method SA-1 (spectral trace averaging).
<input type="checkbox"/>	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	
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 D02, clause E Method SA-2 (spectral trace averaging).
<input type="checkbox"/>	Refer as FCC KDB 789033 D02, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
<input checked="" type="checkbox"/> For conducted measurement.	
<ul style="list-style-type: none">If the EUT supports multiple transmit chains using options given below:	
<input checked="" type="checkbox"/>	Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.
<input type="checkbox"/>	Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,
<input type="checkbox"/>	Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.
<ul style="list-style-type: none">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]) $EIRP_{total} = PPSD_{total} + DG$	
<input type="checkbox"/> For radiated measurement.	
<ul style="list-style-type: none">Refer as FCC KDB 789033 D02 clause II A.1.F "Antenna-port Conducted versus Radiated Testing"	
<ul style="list-style-type: none">Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.	

Test Method	
	<ul style="list-style-type: none"> Refer as FCC KDB 412172 D01 clause 2.2 for EIRP calculation.

3.4.4 Test Setup



3.4.5 Test Result of EIRP 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
<input checked="" type="checkbox"/> 5.85 - 5.895 GHz	(i) For an indoor access point or subordinate device, all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of 15 dBm/MHz and shall decrease linearly to an e.i.r.p. of - 7 dBm/MHz at or above 5.925 GHz. (ii) For a client device, all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of -5 dBm/MHz and shall decrease linearly to an e.i.r.p. of -27 dBm/MHz at or above 5.925 GHz. (iii) For a client device or indoor access point or subordinate device, all emissions below 5.725 GHz shall not exceed an e.i.r.p. of -27 dBm/MHz at 5.65 GHz increasing linearly to 10 dBm/ MHz at 5.7 GHz, and from 5.7 GHz increasing linearly to a level of 15.6 dBm/MHz at 5.72 GHz, and from 5.72 GHz increasing linearly to a level of 27 dBm/MHz at 5.725 GHz.
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.

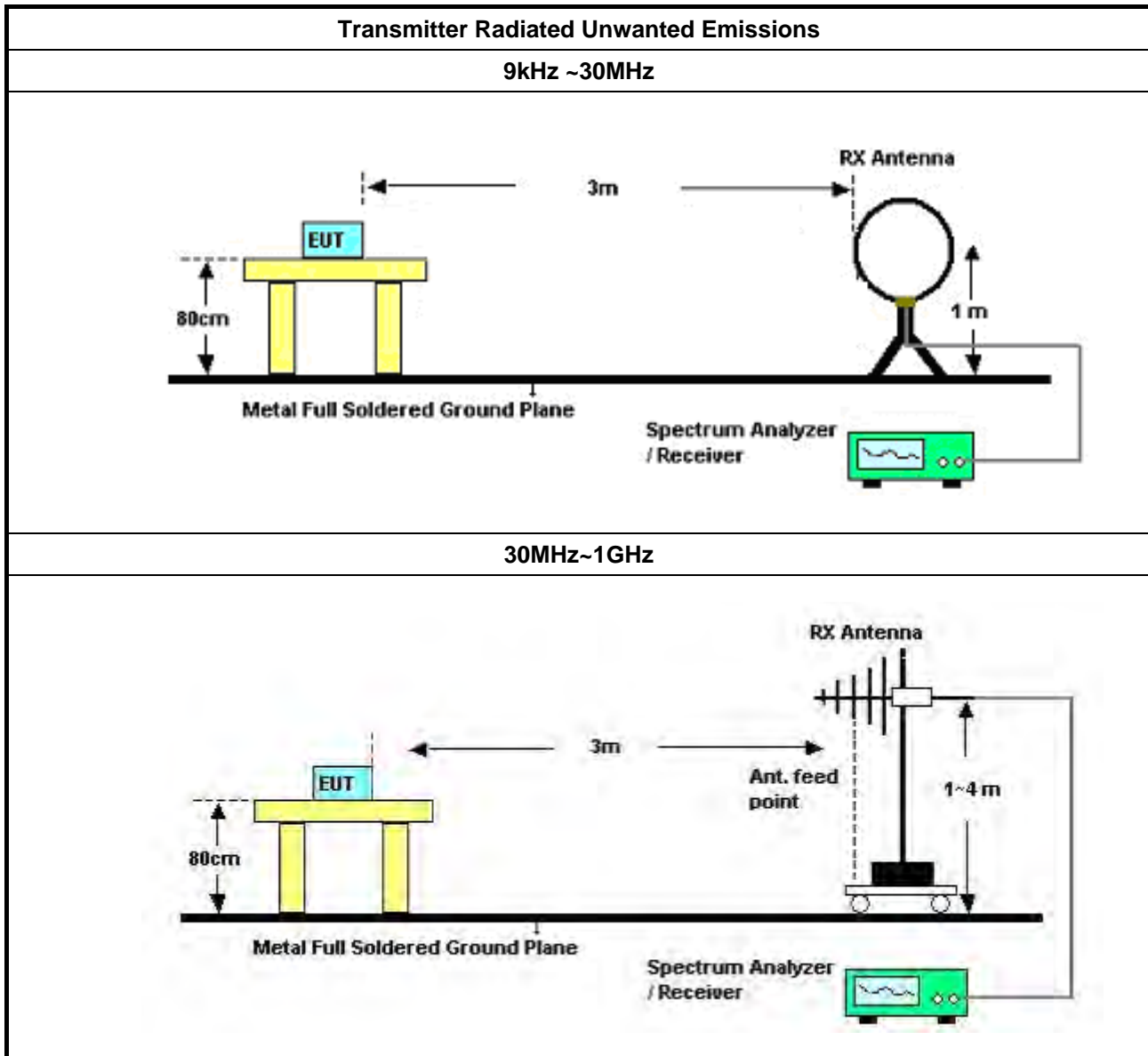
3.5.3 Test Procedures

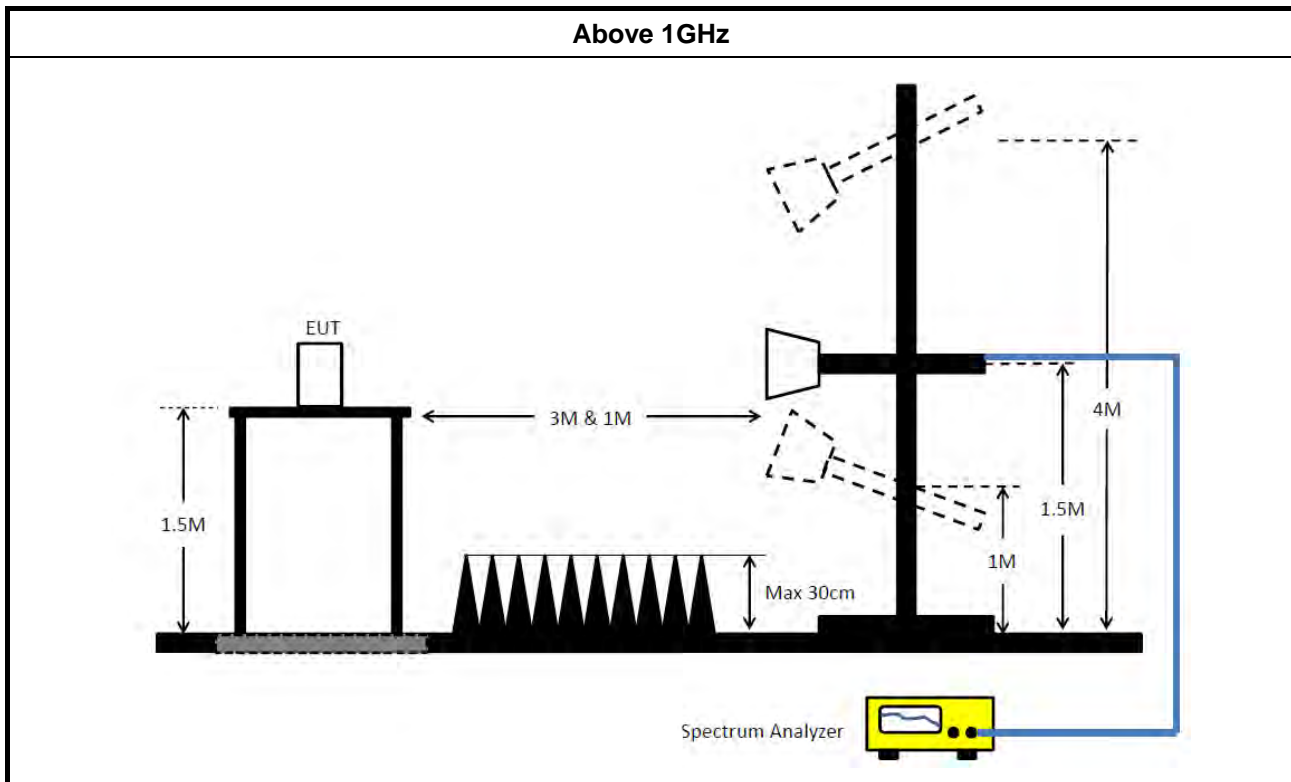
Test Method	
<ul style="list-style-type: none">Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater 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).	
<ul style="list-style-type: none">The average emission levels shall be measured in [duty cycle \geq 98 or duty factor].	
<ul style="list-style-type: none">For the transmitter unwanted emissions shall be measured using following options below:	
	<ul style="list-style-type: none">Refer as FCC KDB 789033 D02, clause G)2) for unwanted emissions into non-restricted bands.
	<ul style="list-style-type: none">Refer as FCC KDB 789033 D02, clause G)1) for unwanted emissions into restricted bands.
	<input type="checkbox"/> Refer as FCC KDB 789033 D02, G)6) Method AD (Trace Averaging).
	<input checked="" type="checkbox"/> Refer as FCC KDB 789033 D02, G)6) Method VB (Reduced VBW).
	<input type="checkbox"/> Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW \geq 1/T, where T is pulse time.
	<input type="checkbox"/> Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
	<input checked="" type="checkbox"/> Refer as FCC KDB 789033 D02, clause G)5) measurement procedure peak limit.
	<input type="checkbox"/> Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak limit.



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

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

3.5.7 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. 18, 2022	Oct. 17, 2023	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 6120	31244	9kHz - 30 MHz	Mar. 23, 2023	Mar. 22, 2024	Radiation (03CH05-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz ~ 1 GHz	Aug. 02, 2023	Aug. 01, 2024	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH05-CB	1GHz ~18GHz 3m	Nov. 06, 2022	Nov. 05, 2023	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 24, 2023	Mar. 23, 2024	Radiation (03CH05-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120 D-1291	1GHz~18GHz	Jun. 08, 2023	Jun. 07, 2024	Radiation (03CH05-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 28, 2023	Jun. 27, 2024	Radiation (03CH05-CB)
Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	May 03, 2023	May 02, 2024	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC12630SE	980287	1GHz – 26.5GHz	Jun. 30, 2023	Jun. 29, 2024	Radiation (03CH05-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 16, 2022	Nov. 15, 2023	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Apr. 18, 2023	Apr. 17, 2024	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 13, 2023	Jun. 12, 2024	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Aug. 16, 2023	Aug. 15, 2024	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-28	1GHz~18GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH05-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-28	1GHz~18GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-04+28	1GHz~18GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-04+28	1GHz~18GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH05-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH05-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH05-CB)
High Cable	Woken	WCA0929M	40G#6	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH06-CB	1GHz ~18GHz 3m	Sep. 30, 2022	Sep. 29, 2023	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120D-1292	1GHz~18GHz	Jul. 31, 2023	Jul. 30, 2024	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 28, 2023	Jun. 27, 2024	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	83017A	MY53270064	0.5GHz ~ 26.5GHz	Aug. 01, 2023	Jul. 31, 2024	Radiation (03CH06-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 16, 2022	Nov. 15, 2023	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSP40	100080	9kHz~40GHz	Dec. 21, 2022	Dec. 20, 2023	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-05+68	1GHz~18GHz	Aug. 15, 2023	Aug. 14, 2024	Radiation (03CH06-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH06-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH06-CB)
High Cable	Woken	WCA0929M	40G#6	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH06-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH06-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 GHz ~26.5 GHz	Oct. 04, 2022	Oct. 03, 2023	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. 03, 2022	Oct. 02, 2023	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz ~ 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-07	1 GHz – 18 GHz	Oct. 03, 2022	Oct. 02, 2023	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. 03, 2022	Oct. 02, 2023	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. 03, 2022	Oct. 02, 2023	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. 03, 2022	Oct. 02, 2023	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. 03, 2022	Oct. 02, 2023	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.



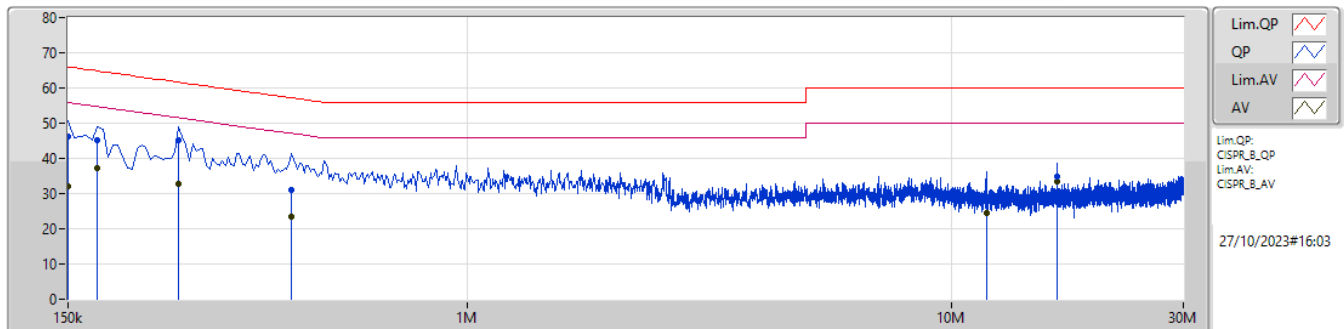
Conducted Emissions at Powerline

Appendix A

Summary

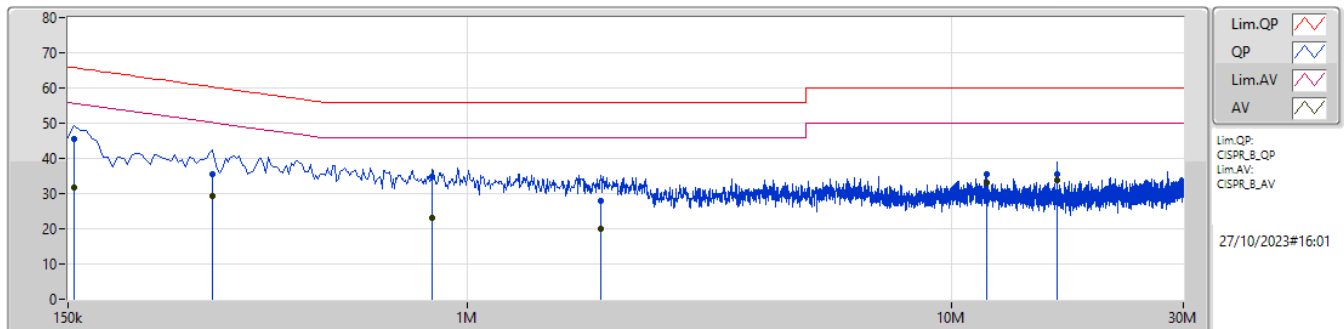
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 3	Pass	AV	16.467M	33.91	50.00	-16.09	Neutral

Mode 3



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	150k	46.27	66.00	-19.73	9.98	Line	-	36.29	0.09	0.02	9.87						
AV	150k	32.21	56.00	-23.79	9.98	Line	-	22.23	0.09	0.02	9.87						
QP	172.5k	45.09	64.83	-19.74	9.98	Line	-	35.11	0.09	0.02	9.87						
AV	172.5k	37.31	54.83	-17.52	9.98	Line	-	27.33	0.09	0.02	9.87						
QP	253.5k	45.08	61.64	-16.56	9.97	Line	-	35.11	0.08	0.02	9.87						
AV	253.5k	32.73	51.64	-18.91	9.97	Line	-	22.76	0.08	0.02	9.87						
QP	433.5k	30.92	57.19	-26.27	10.01	Line	-	20.91	0.09	0.02	9.90						
AV	433.5k	23.60	47.19	-23.59	10.01	Line	-	13.59	0.09	0.02	9.90						
QP	11.765M	27.70	60.00	-32.30	10.38	Line	-	17.32	0.26	0.16	9.96						
AV	11.765M	24.53	50.00	-25.47	10.38	Line	-	14.15	0.26	0.16	9.96						
QP	16.467M	34.90	60.00	-25.10	10.48	Line	-	24.42	0.29	0.20	9.99						
AV	16.467M	33.45	50.00	-16.55	10.48	Line	"Worst"	22.97	0.29	0.20	9.99						

Mode 3



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	154.5k	45.50	65.75	-20.25	9.96	Neutral	-	35.54	0.07	0.02	9.87						
AV	154.5k	31.75	55.75	-24.00	9.96	Neutral	-	21.79	0.07	0.02	9.87						
QP	298.5k	35.35	60.28	-24.93	9.97	Neutral	-	25.38	0.07	0.02	9.88						
AV	298.5k	29.25	50.28	-21.03	9.97	Neutral	-	19.28	0.07	0.02	9.88						
QP	847.5k	34.74	56.00	-21.26	9.99	Neutral	-	24.75	0.08	0.01	9.90						
AV	847.5k	23.19	46.00	-22.81	9.99	Neutral	-	13.20	0.08	0.01	9.90						
QP	1.887M	27.79	56.00	-28.21	10.07	Neutral	-	17.72	0.10	0.07	9.90						
AV	1.887M	20.12	46.00	-25.88	10.07	Neutral	-	10.05	0.10	0.07	9.90						
QP	11.76M	35.38	60.00	-24.62	10.36	Neutral	-	25.02	0.24	0.16	9.96						
AV	11.76M	33.27	50.00	-16.73	10.36	Neutral	-	22.91	0.24	0.16	9.96						
QP	16.467M	35.36	60.00	-24.64	10.46	Neutral	-	24.90	0.27	0.20	9.99						
AV	16.467M	33.91	50.00	-16.09	10.46	Neutral	"Worst"	23.45	0.27	0.20	9.99						

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.725G-5.895G	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	16.39M	16.537M	16M5D1D	16.28M	16.327M
802.11ax HEW20_Nss1,(MCS0)_4TX	18.92M	18.974M	19M0D1D	13.75M	18.721M
802.11ax HEW40_Nss1,(MCS0)_4TX	36.08M	37.508M	37M5D1D	28.82M	37.153M
802.11ax HEW80_Nss1,(MCS0)_4TX	76.56M	76.825M	76M8D1D	73.04M	75.579M
802.11ax HEW160_Nss1,(MCS0)_4TX	142.56M	155.793M	156MD1D	134.64M	154.13M

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)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5845MHz	Pass	500k	16.335M	16.373M	16.28M	16.353M	16.28M	16.349M	16.28M	16.327M
5865MHz	Pass	500k	16.28M	16.438M	16.28M	16.347M	16.335M	16.404M	16.39M	16.46M
5885MHz	Pass	500k	16.335M	16.537M	16.335M	16.354M	16.39M	16.387M	16.335M	16.429M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5845MHz	Pass	500k	15.18M	18.82M	18.92M	18.841M	15.125M	18.721M	18.59M	18.863M
5865MHz	Pass	500k	15.345M	18.819M	13.75M	18.841M	17.545M	18.85M	15.565M	18.974M
5885MHz	Pass	500k	15.345M	18.842M	15.07M	18.827M	13.805M	18.831M	16.335M	18.825M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5835MHz	Pass	500k	35.09M	37.47M	31.35M	37.371M	28.82M	37.5M	31.35M	37.467M
5875MHz	Pass	500k	35.2M	37.399M	36.08M	37.508M	35.64M	37.473M	30.03M	37.153M
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5855MHz	Pass	500k	75.02M	76.524M	76.56M	75.579M	75.02M	76.825M	73.04M	75.656M
802.11ax HEW160_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5815MHz	Pass	500k	134.64M	154.13M	142.56M	155.793M	142.56M	154.719M	135.08M	154.712M

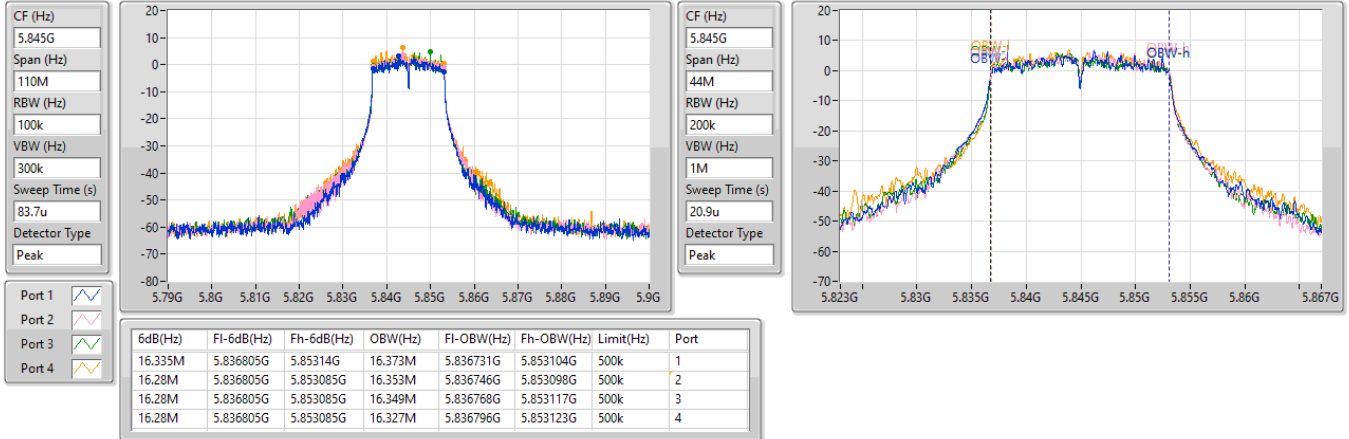
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

802.11a_Nss1,(6Mbps)_4TX

EBW

5845MHz

17/10/2023

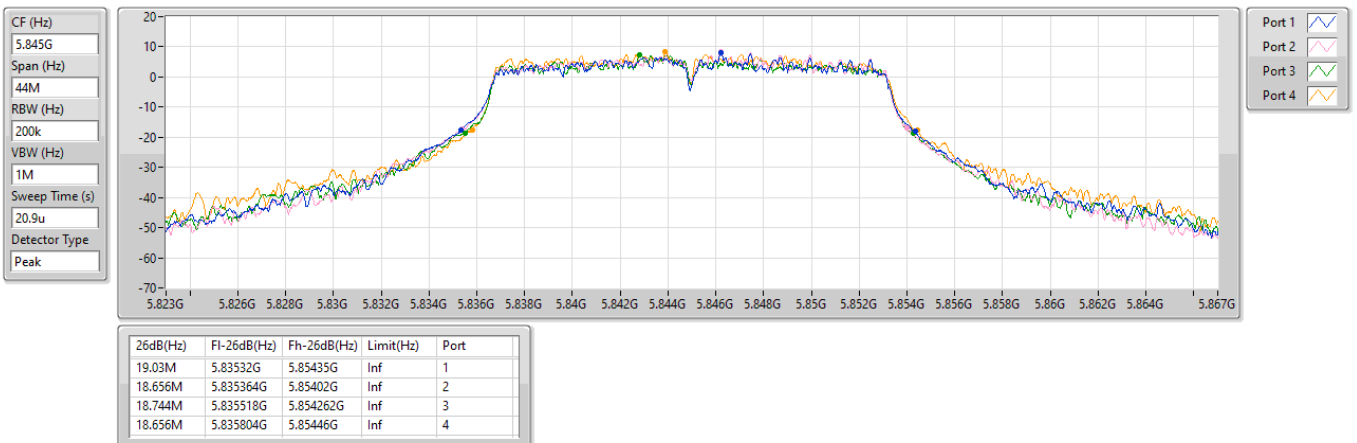


802.11a_Nss1,(6Mbps)_4TX

EBW

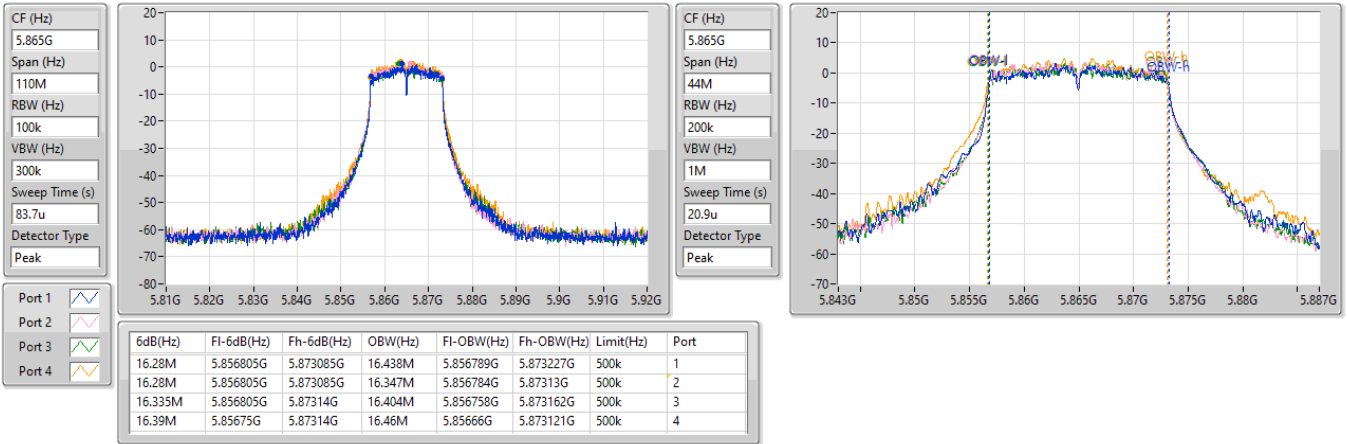
5845MHz

17/10/2023

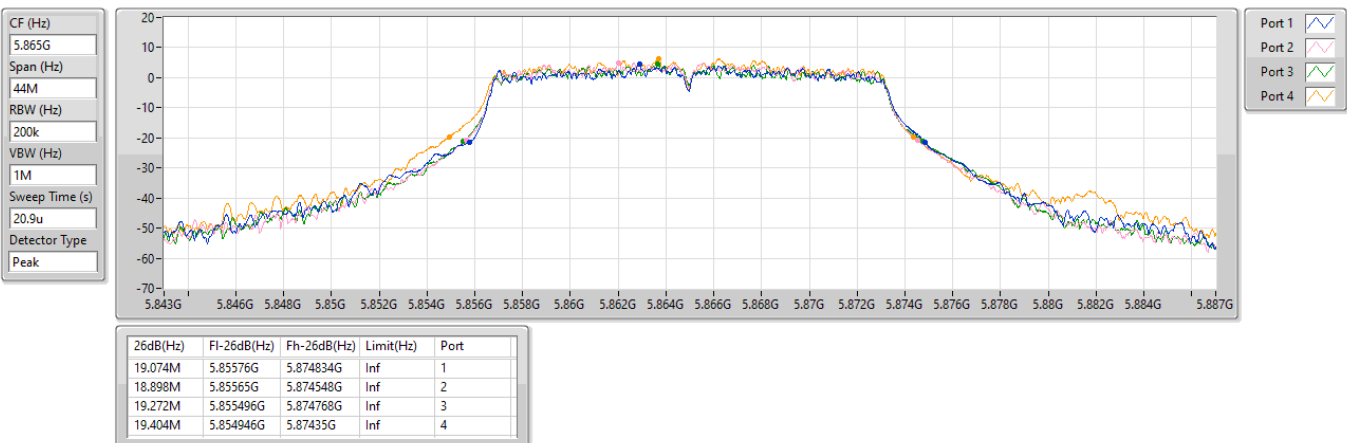


802.11a_Nss1,(6Mbps)_4TX
EBW
5865MHz

17/10/2023

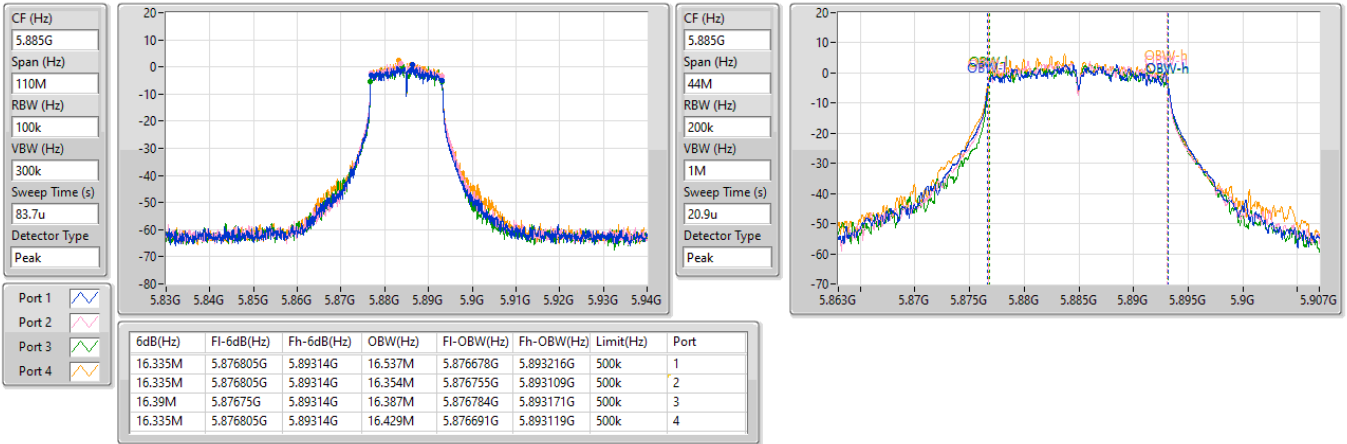

802.11a_Nss1,(6Mbps)_4TX
EBW
5865MHz

17/10/2023

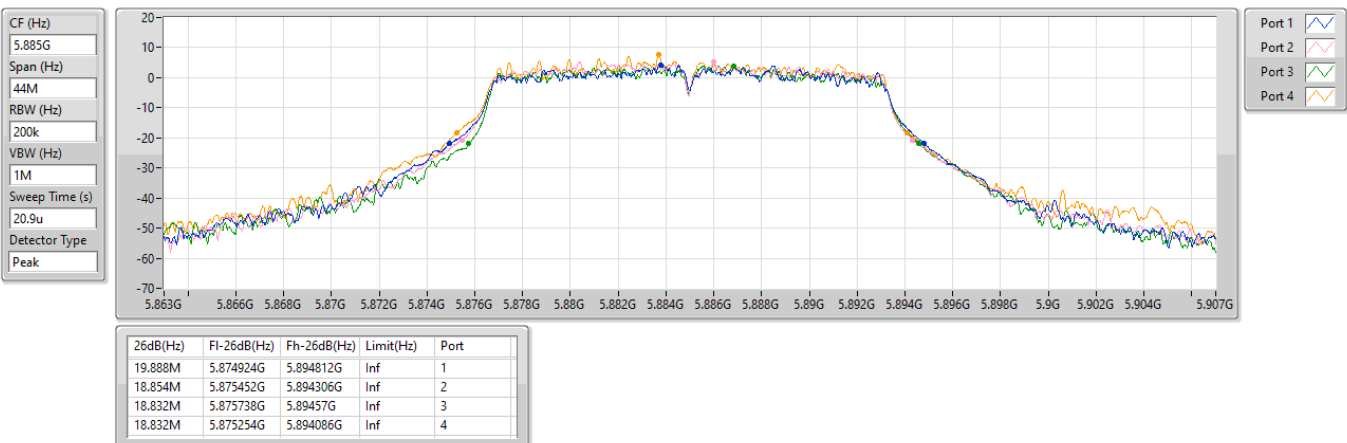


802.11a_Nss1,(6Mbps)_4TX
EBW
5885MHz

17/10/2023

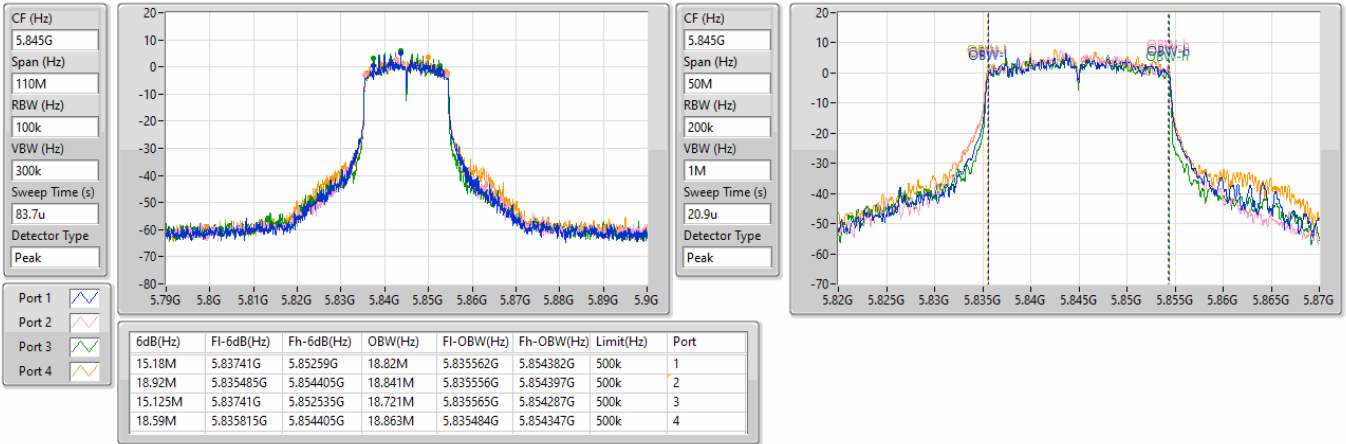

802.11a_Nss1,(6Mbps)_4TX
EBW
5885MHz

17/10/2023

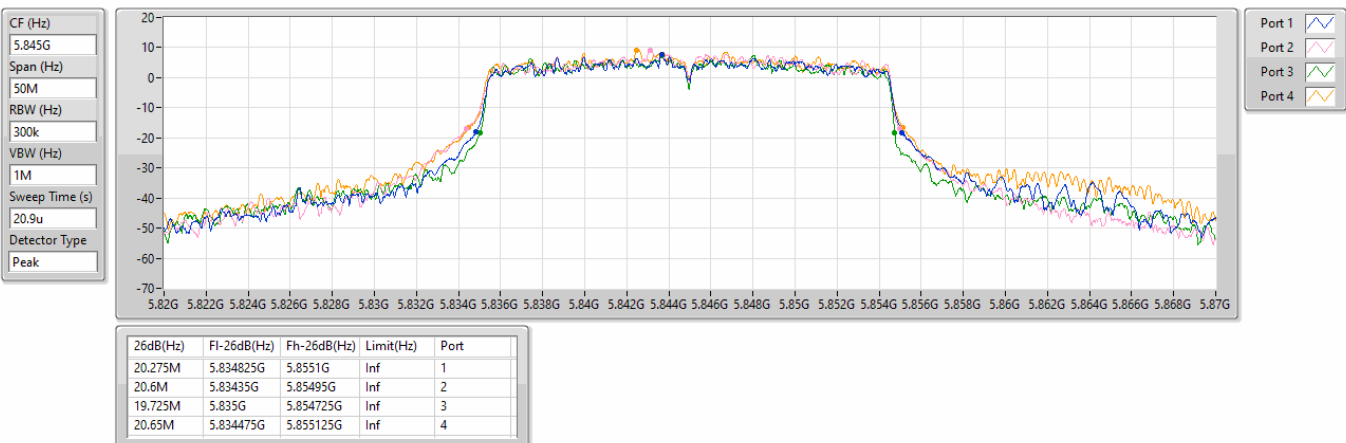


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5845MHz

17/10/2023

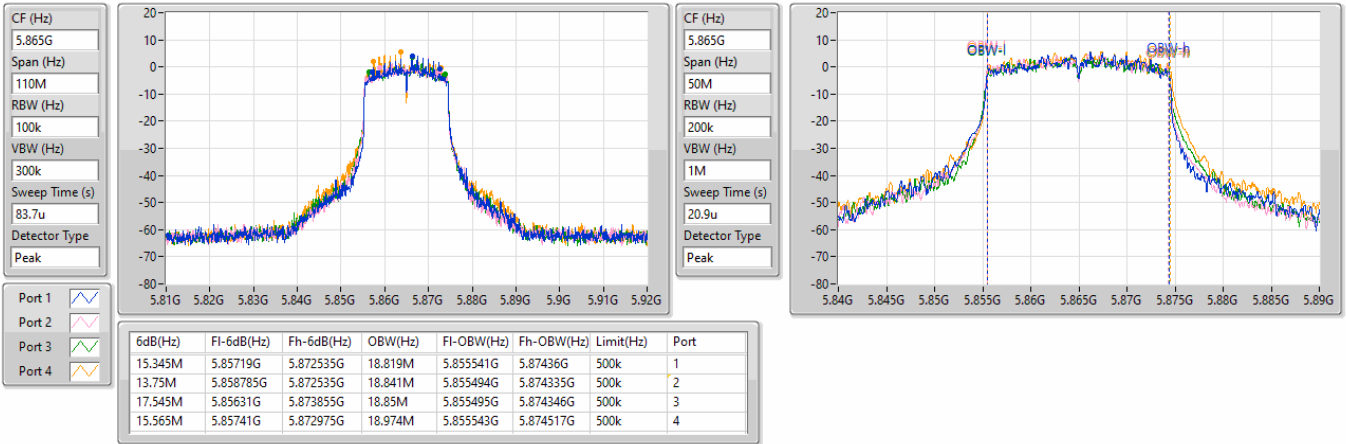

802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5845MHz

17/10/2023

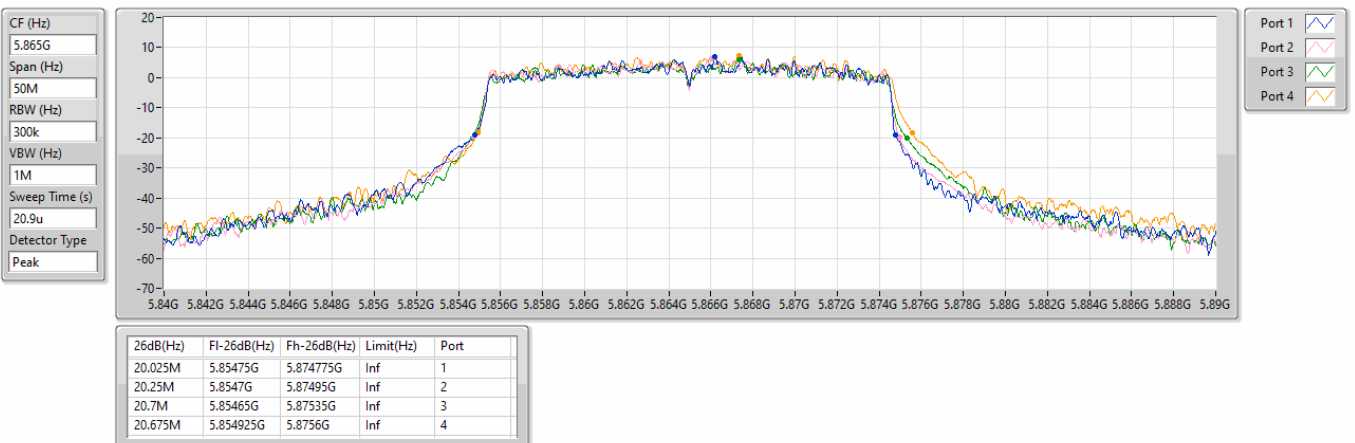


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5865MHz

17/10/2023

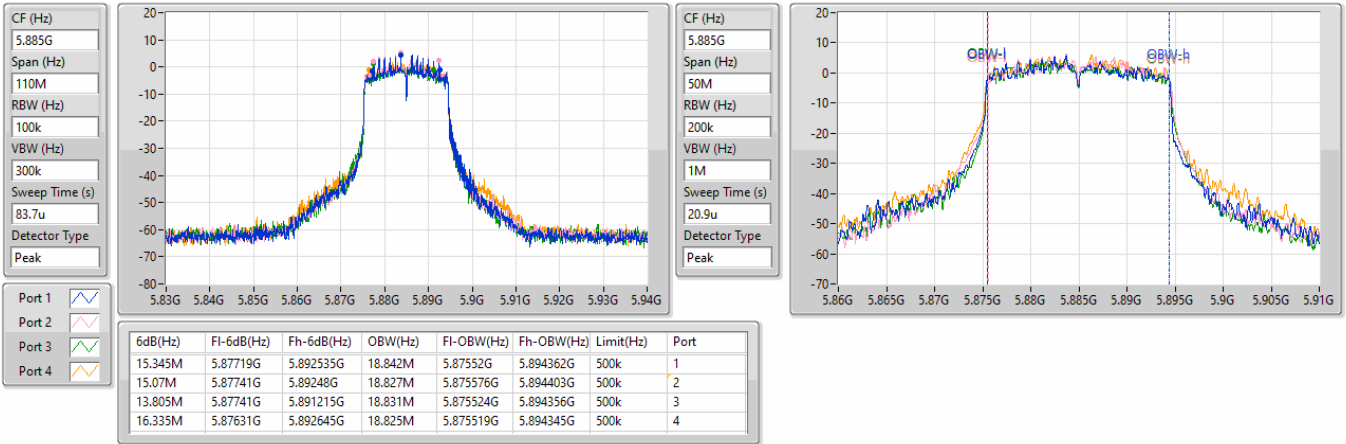

802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5865MHz

17/10/2023



802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5885MHz

17/10/2023

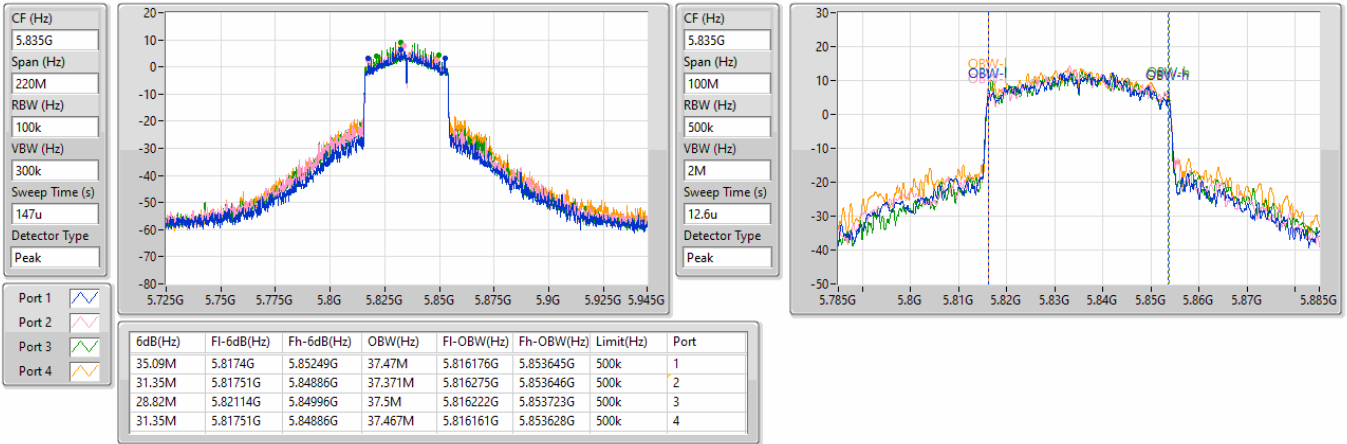

802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
5885MHz

17/10/2023

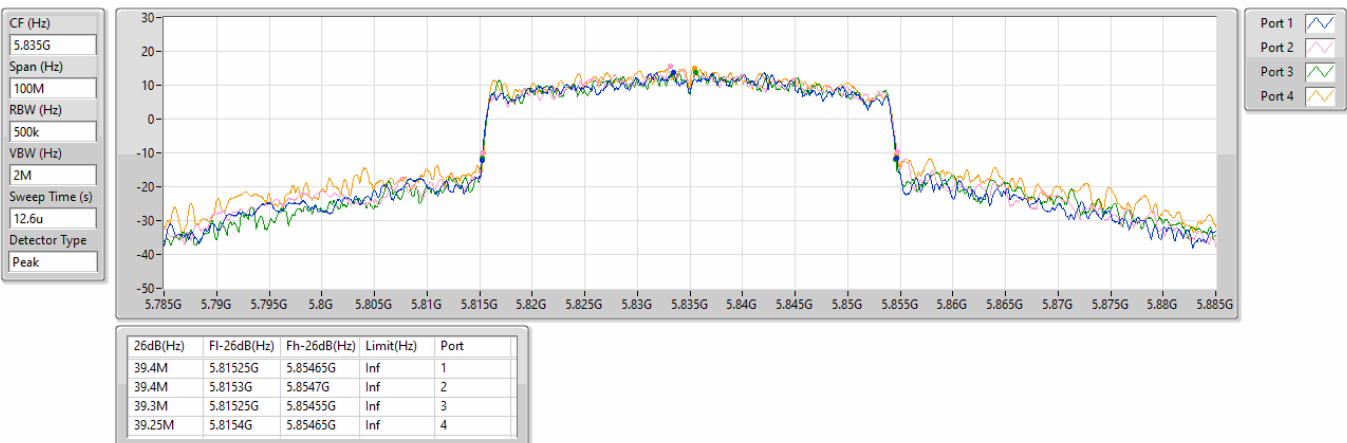


802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5835MHz

17/10/2023

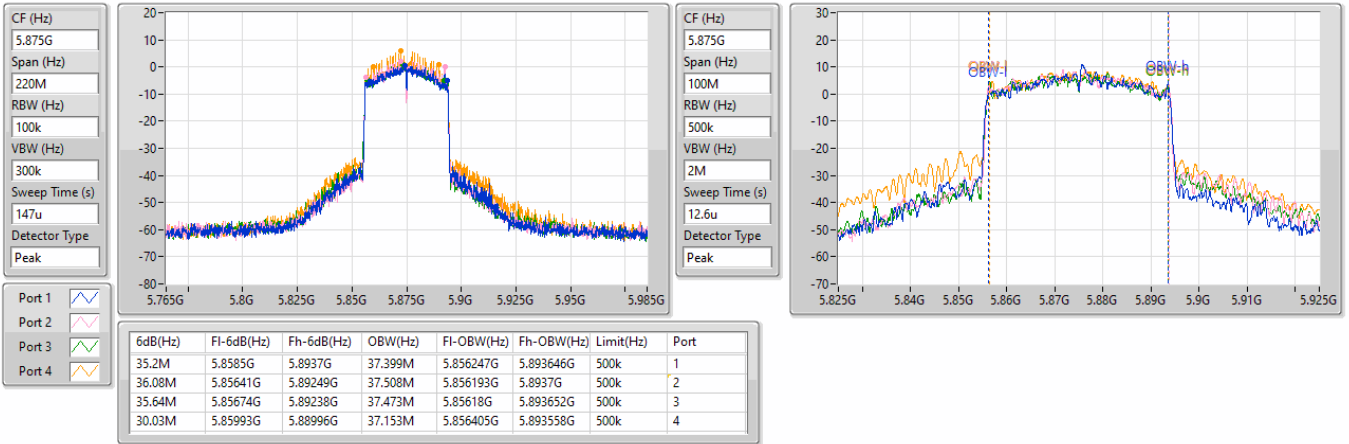

802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5835MHz

17/10/2023

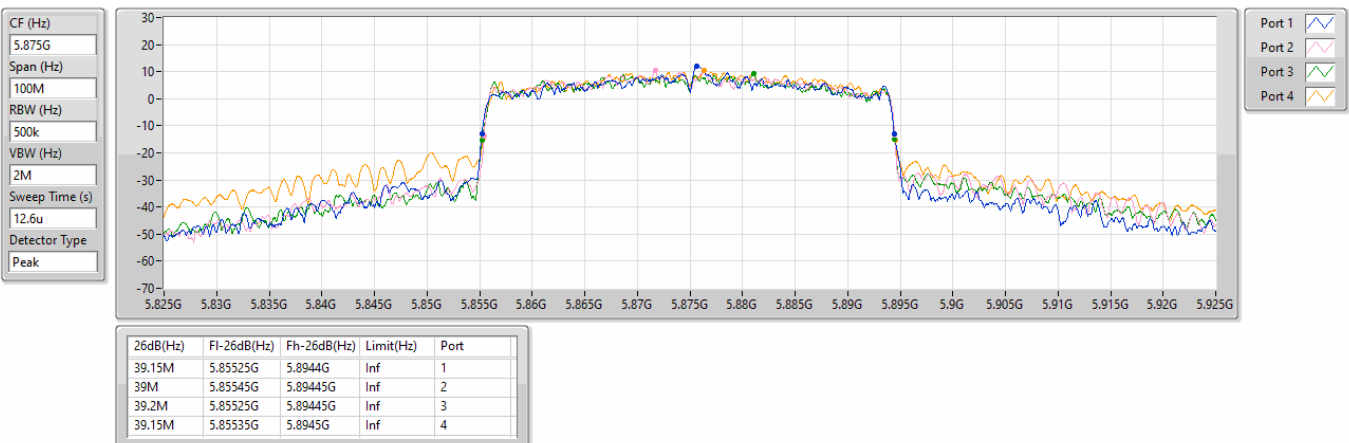


802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5875MHz

17/10/2023

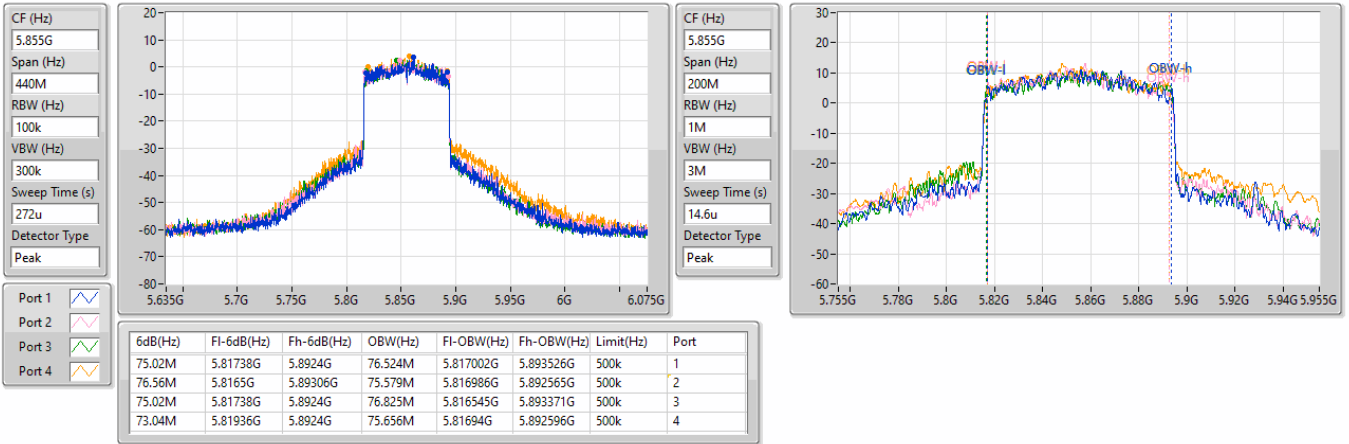

802.11ax HEW40_Nss1,(MCS0)_4TX
EBW
5875MHz

17/10/2023

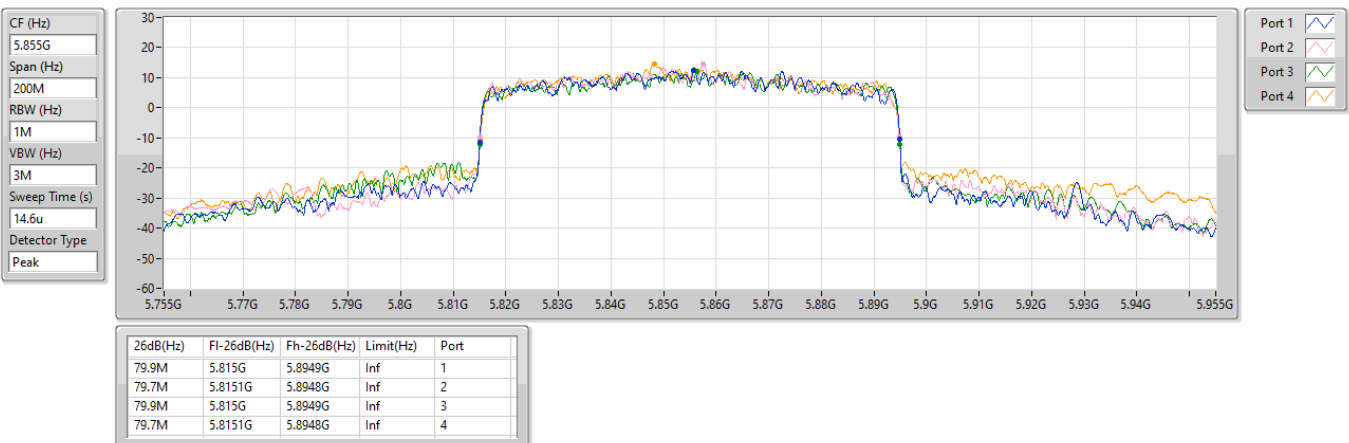


802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
5855MHz

17/10/2023


802.11ax HEW80_Nss1,(MCS0)_4TX
EBW
5855MHz

17/10/2023

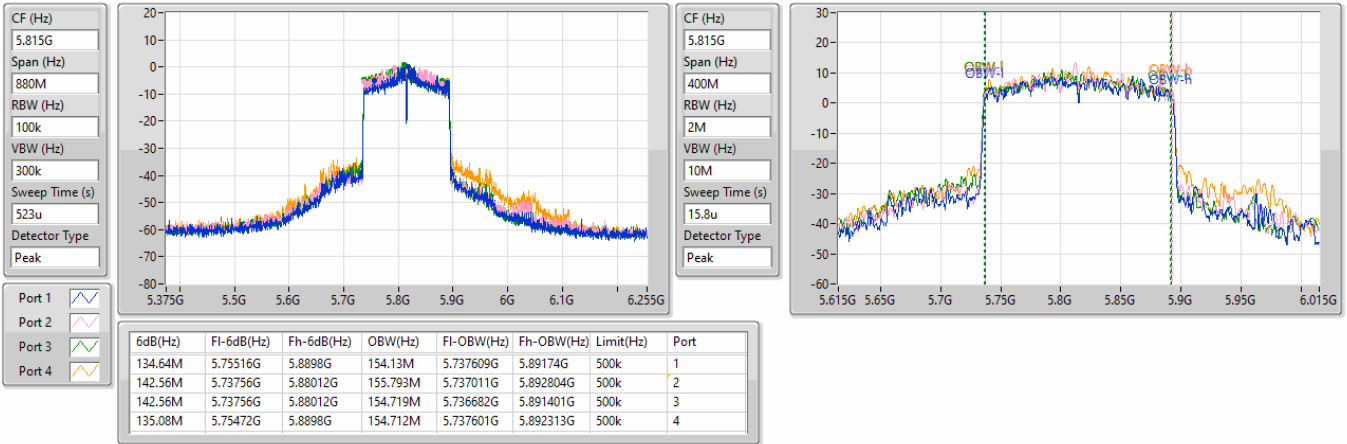


802.11ax HEW160_Nss1,(MCS0)_4TX

EBW

5815MHz

17/10/2023

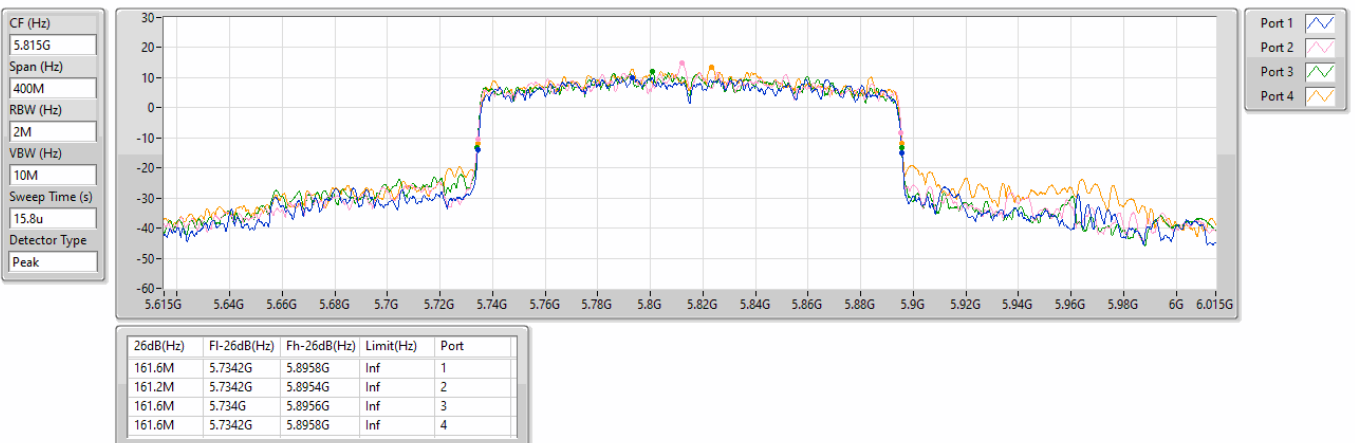


802.11ax HEW160_Nss1,(MCS0)_4TX

EBW

5815MHz

17/10/2023



Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.725G-5.895G	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	23.49	0.22336	28.10	0.64565
802.11ax HEW20_Nss1,(MCS0)_4TX	23.41	0.21928	28.02	0.63387
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	23.41	0.21928	33.79	2.39332
802.11ax HEW40_Nss1,(MCS0)_4TX	28.35	0.68391	32.96	1.97697
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	25.41	0.34754	35.79	3.79315
802.11ax HEW80_Nss1,(MCS0)_4TX	26.64	0.46132	31.25	1.33352
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	25.34	0.34198	35.72	3.73250
802.11ax HEW160_Nss1,(MCS0)_4TX	25.51	0.35563	30.12	1.02802
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	25.51	0.35563	35.89	3.88150

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5845MHz	Pass	4.61	16.76	17.55	17.1	18.3	23.49	30.00	28.10	36.00
5865MHz	Pass	4.61	14.73	15.33	14.94	16.17	21.35	Inf	25.96	36.00
5885MHz	Pass	4.61	14.57	15.44	14.54	15.99	21.20	Inf	25.81	36.00
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5845MHz	Pass	4.61	16.73	17.5	17.02	18.16	23.41	30.00	28.02	36.00
5865MHz	Pass	4.61	15.12	15.65	15.35	16.52	21.71	Inf	26.32	36.00
5885MHz	Pass	4.61	15.4	16.28	15.43	16.75	22.02	Inf	26.63	36.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5835MHz	Pass	4.61	21.77	22.35	22.1	22.99	28.35	30.00	32.96	36.00
5875MHz	Pass	4.61	17.22	17.85	17.31	18.72	23.84	Inf	28.45	36.00
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5855MHz	Pass	4.61	20.11	20.62	20.16	21.45	26.64	30.00	31.25	36.00
802.11ax HEW160_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5815MHz	Pass	4.61	18.83	19.57	19.04	20.36	25.51	30.00	30.12	36.00
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5845MHz	Pass	10.38	16.73	17.5	17.02	18.16	23.41	30.00	33.79	36.00
5865MHz	Pass	10.38	15.12	15.65	15.35	16.52	21.71	Inf	32.09	36.00
5885MHz	Pass	10.38	15.4	16.28	15.43	16.75	22.02	Inf	32.40	36.00
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5835MHz	Pass	10.38	18.75	19.40	19.18	20.10	25.41	30.00	35.79	36.00
5875MHz	Pass	10.38	17.22	17.85	17.31	18.72	23.84	Inf	34.22	36.00
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5855MHz	Pass	10.38	18.82	19.26	19.04	20.06	25.34	30.00	35.72	36.00
802.11ax HEW160-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5815MHz	Pass	10.38	18.83	19.57	19.04	20.36	25.51	30.00	35.89	36.00

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

Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.725G-5.895G	-	-
802.11a_Nss1,(6Mbps)_4TX	9.44	19.82
802.11ax HEW20_Nss1,(MCS0)_4TX	9.52	19.90
802.11ax HEW40_Nss1,(MCS0)_4TX	9.28	19.66
802.11ax HEW80_Nss1,(MCS0)_4TX	9.12	19.50
802.11ax HEW160_Nss1,(MCS0)_4TX	2.67	13.05

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)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5845MHz	Pass	10.38	2.84	3.48	3.07	4.27	9.44	Inf	19.82	20.00
5865MHz	Pass	10.38	2.66	3.38	2.81	4.08	9.23	Inf	19.61	20.00
5885MHz	Pass	10.38	2.52	3.38	2.36	4.02	9.12	Inf	19.50	20.00
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5845MHz	Pass	10.38	2.74	3.64	2.93	4.15	9.40	Inf	19.78	20.00
5865MHz	Pass	10.38	2.78	3.21	2.97	4.01	9.27	Inf	19.65	20.00
5885MHz	Pass	10.38	2.90	3.82	2.95	4.42	9.52	Inf	19.90	20.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5835MHz	Pass	10.38	2.80	3.51	2.82	3.86	9.28	Inf	19.66	20.00
5875MHz	Pass	10.38	2.64	3.05	2.62	4.14	9.15	Inf	19.53	20.00
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5855MHz	Pass	10.38	2.56	3.25	2.72	3.97	9.12	Inf	19.50	20.00
802.11ax HEW160_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5815MHz	Pass	10.38	-3.99	-3.17	-3.78	-2.43	2.67	Inf	13.05	20.00

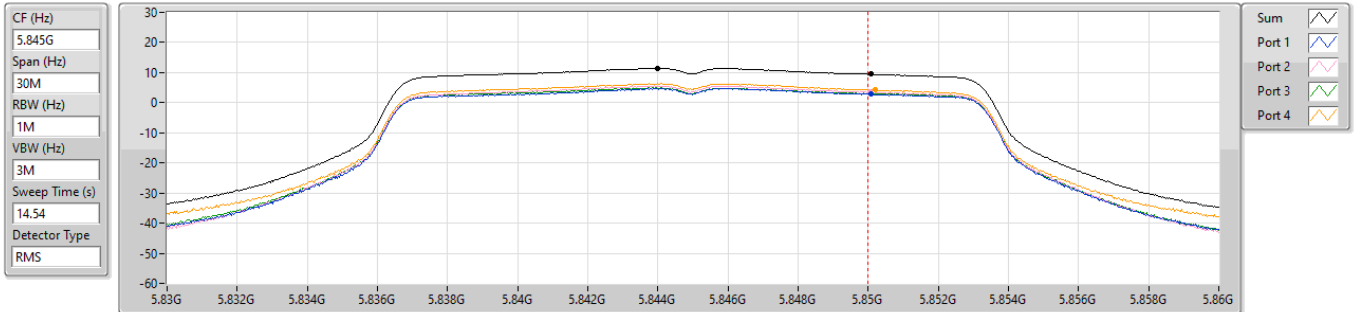
DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

802.11a_Nss1,(6Mbps)_4TX

PSD

5845MHz

17/10/2023



5725-5850MHz

Sum	PD	Limit RBW	BWCF
(dBm)	(dBm)	(Hz)	(dB)
11.42	8.41	500k	-3.01

5850-5895MHz

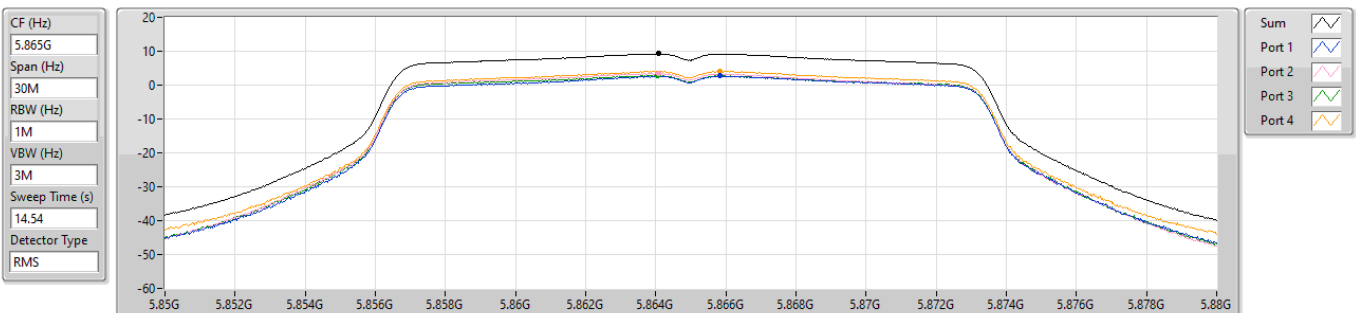
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.44	9.44	2.84	3.48	3.07	4.27

802.11a_Nss1,(6Mbps)_4TX

PSD

5865MHz

17/10/2023



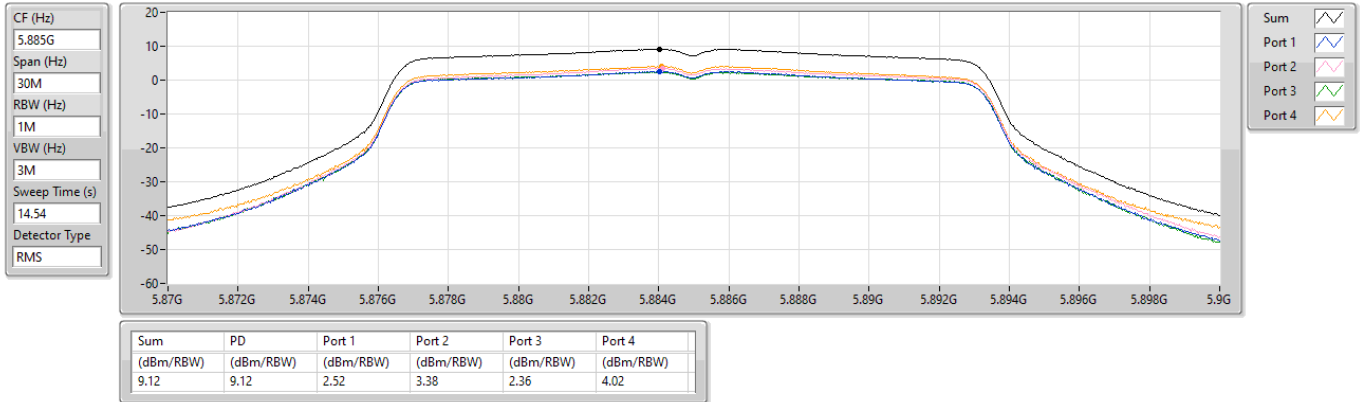
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.23	9.23	2.66	3.38	2.81	4.08

802.11a_Nss1,(6Mbps)_4TX

PSD

5885MHz

17/10/2023

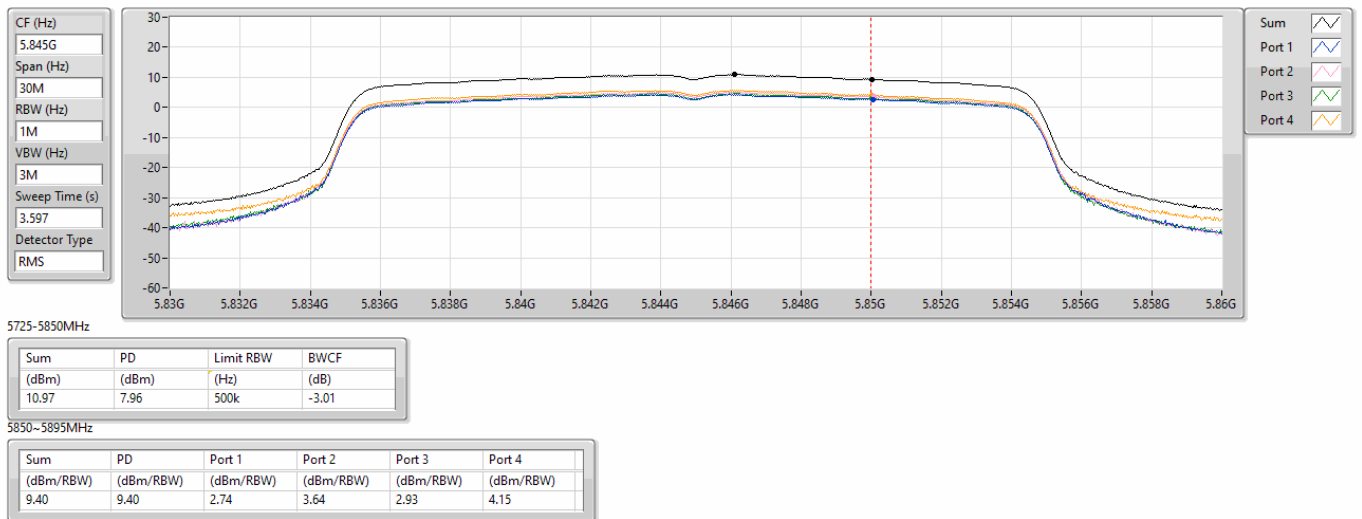


802.11ax_HEW20_Nss1,(MCS0)_4TX

PSD

5845MHz

17/10/2023

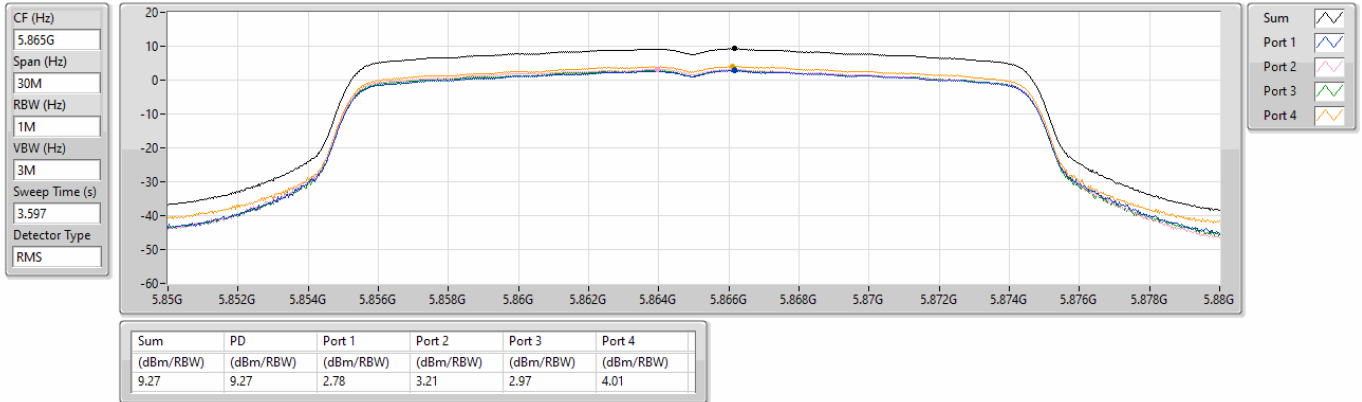


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5865MHz

17/10/2023

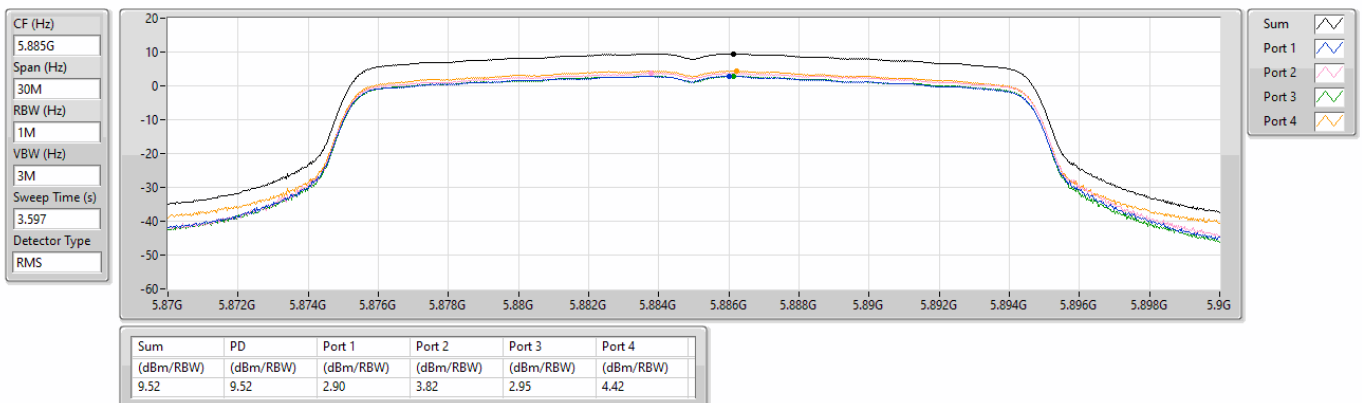


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5885MHz

17/10/2023

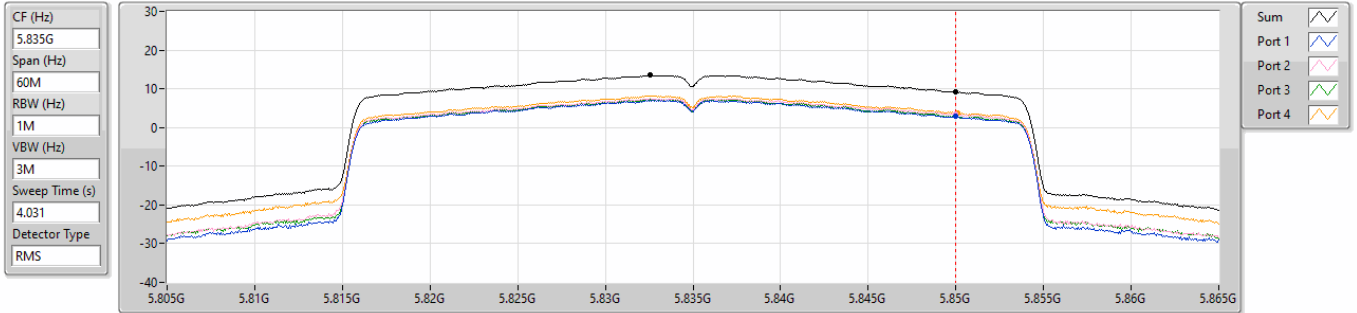


802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5835MHz

17/10/2023



5725-5850MHz

Sum	PD	Limit RBW	BWCF
(dBm)	(dBm)	(Hz)	(dB)
13.51	10.50	500k	-3.01

5850-5895MHz

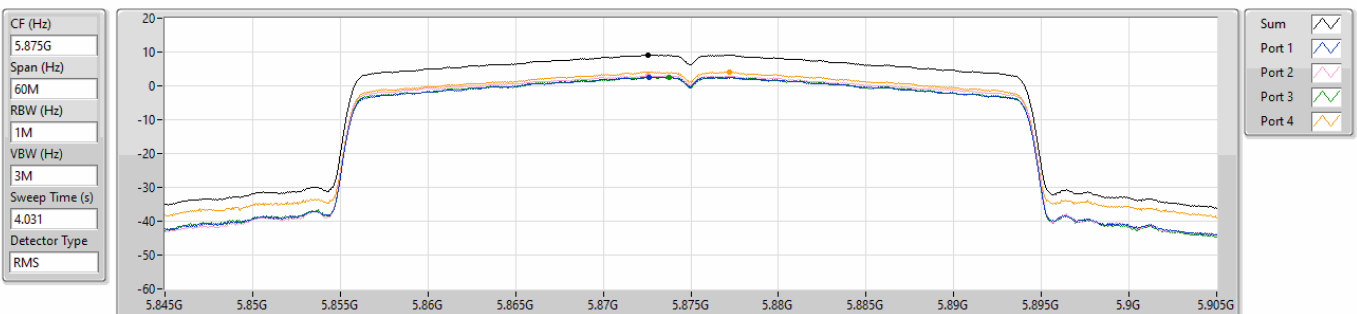
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.28	9.28	2.80	3.51	2.82	3.86

802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5875MHz

17/10/2023



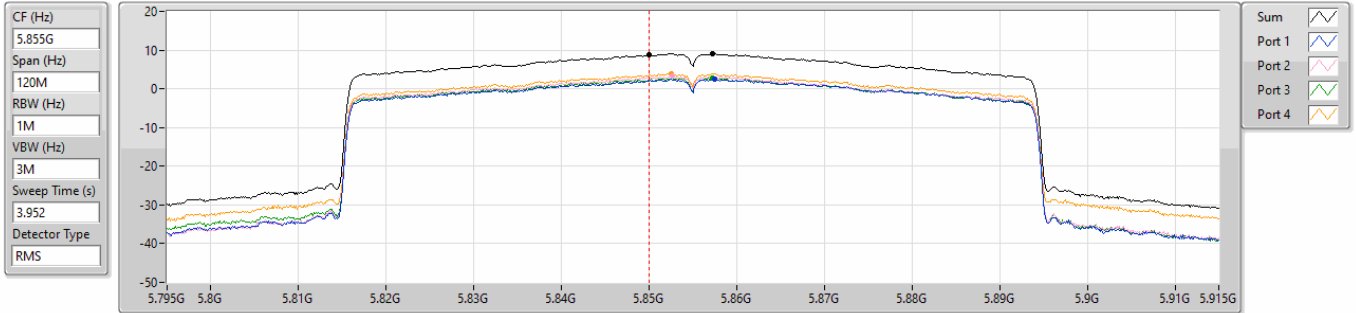
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.15	9.15	2.64	3.05	2.62	4.14

802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

5855MHz

17/10/2023



5725-5850MHz

Sum	PD	Limit RBW	BWCF
(dBm)	(dBm)	(Hz)	(dB)
8.75	5.74	500k	-3.01

5850-5895MHz

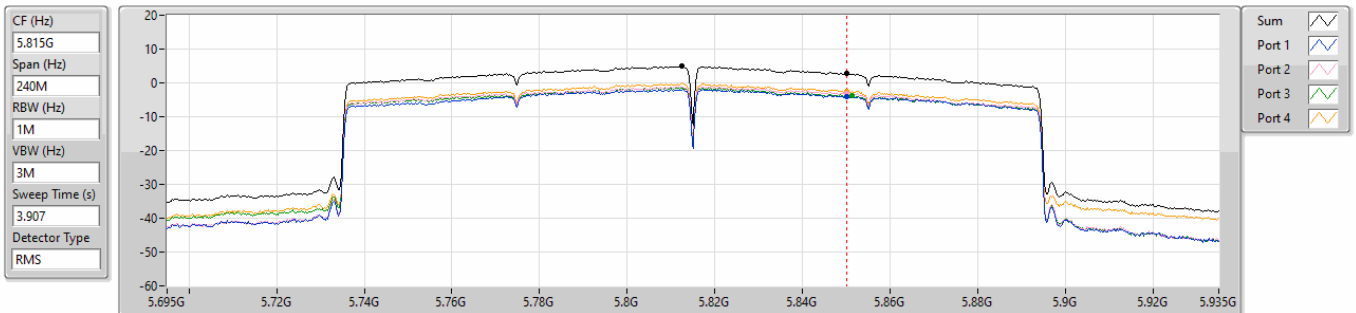
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.12	9.12	2.56	3.25	2.72	3.97

802.11ax HEW160_Nss1,(MCS0)_4TX

PSD

5815MHz

17/10/2023



5725-5850MHz

Sum	PD	Limit RBW	BWCF
(dBm)	(dBm)	(Hz)	(dB)
4.86	1.85	500k	-3.01

5850-5895MHz

Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.67	2.67	-3.99	-3.17	-3.78	-2.43



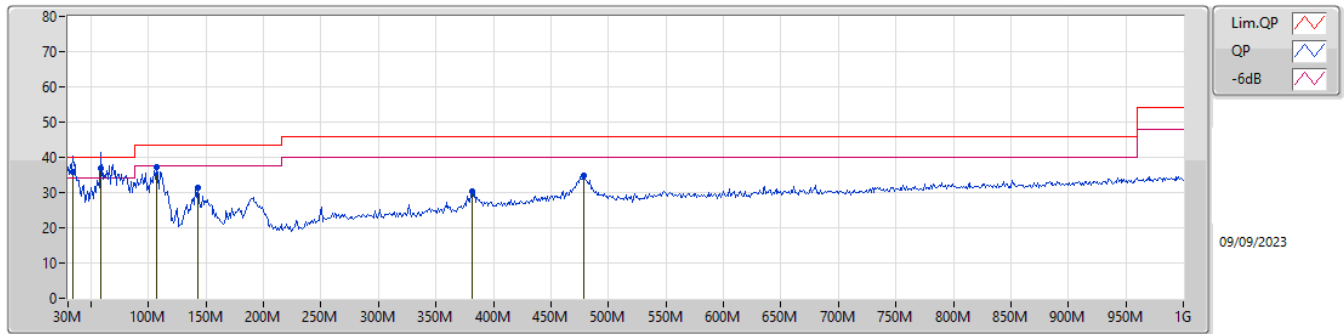
Radiated Emissions below 1GHz

Appendix E.1

Summary

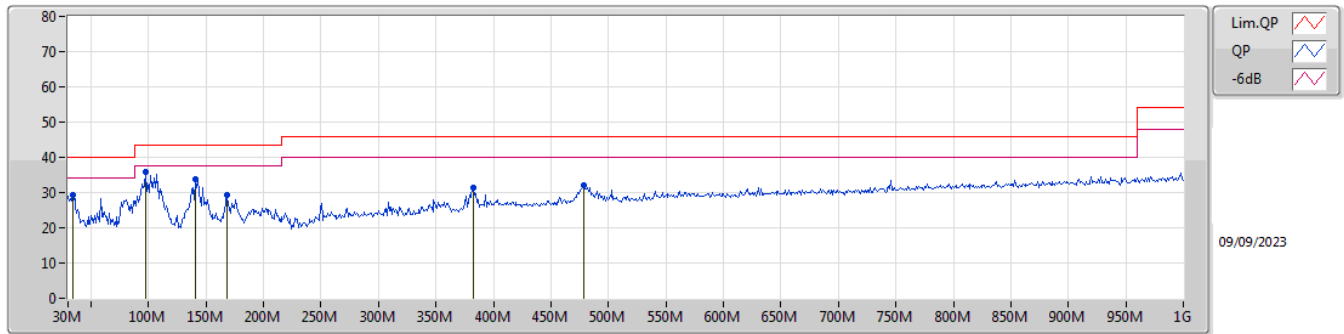
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	QP	58.13M	36.96	40.00	-3.04	Vertical

Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)		
QP	33.88M	35.86	40.00	-4.14	-8.37	3	Vertical	220	1.00	-	44.23	22.15	1.12	31.64		
QP	58.13M	36.96	40.00	-3.04	-18.05	3	Vertical	1	1.00	"Worst"	55.01	12.45	1.40	31.90		
PK	106.63M	37.21	43.50	-6.29	-12.41	3	Vertical	182	1.00	-	49.62	17.70	1.84	31.95		
PK	142.52M	31.51	43.50	-11.99	-12.91	3	Vertical	194	1.00	-	44.42	16.97	2.10	31.98		
PK	381.14M	30.23	46.00	-15.77	-7.77	3	Vertical	210	1.00	-	38.00	20.84	3.56	32.17		
PK	479.11M	34.85	46.00	-11.15	-5.22	3	Vertical	360	1.00	-	40.07	23.09	3.99	32.30		

Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)		
PK	33.88M	29.37	40.00	-10.63	-8.37	3	Horizontal	244	1.50	-	37.74	22.15	1.12	31.64		
PK	97.9M	35.93	43.50	-7.57	-13.81	3	Horizontal	257	3.00	"Worst"	49.74	16.39	1.77	31.97		
PK	140.58M	33.76	43.50	-9.74	-12.80	3	Horizontal	267	2.00	-	46.56	17.09	2.08	31.97		
PK	168.71M	29.16	43.50	-14.34	-14.09	3	Horizontal	77	2.00	-	43.25	15.65	2.29	32.03		
PK	382.11M	31.37	46.00	-14.63	-7.73	3	Horizontal	144	1.00	-	39.10	20.88	3.56	32.17		
PK	479.11M	32.07	46.00	-13.93	-5.22	3	Horizontal	288	1.50	-	37.29	23.09	3.99	32.30		

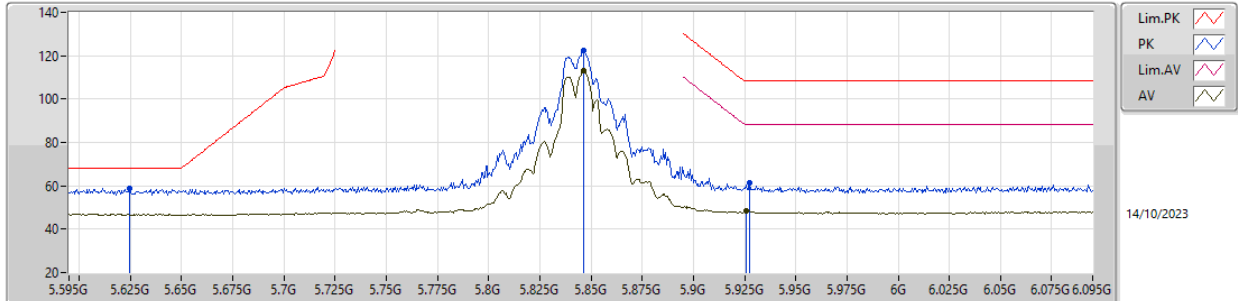


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.725-5.985GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_4TX	Pass	AV	11.76734G	53.97	54.00	-0.03	3	Vertical	121	1.83	-

5.85-5.895GHz_802.11a_Nss1,(6Mbps)_4TX

5845MHz_TX

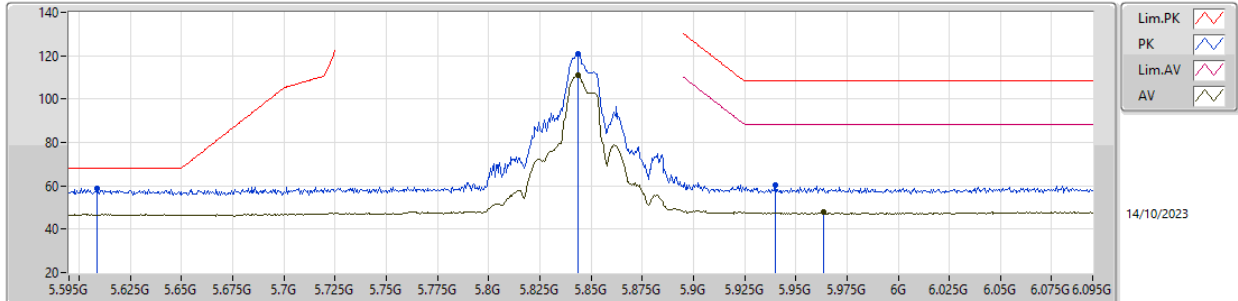


EUT Y_4TX
Setting Z1
06-H-S-5-10

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	5.6245G	58.81	68.20	-9.39	51.38	3	Vertical	50	2.06	-	31.75	7.24	31.56			
PK	5.8465G	122.55	Inf	-Inf	114.43	3	Vertical	50	2.06	-	32.30	7.41	31.59			
RMS	5.8465G	113.09	Inf	-Inf	104.97	3	Vertical	50	2.06	-	32.30	7.41	31.59			
PK	5.9275G	61.37	108.20	-46.83	52.98	3	Vertical	50	2.06	-	32.55	7.44	31.60			
RMS	5.926G	48.37	88.20	-39.83	39.98	3	Vertical	50	2.06	-	32.55	7.44	31.60			

5.85-5.895GHz_802.11a_Nss1,(6Mbps)_4TX

5845MHz_TX

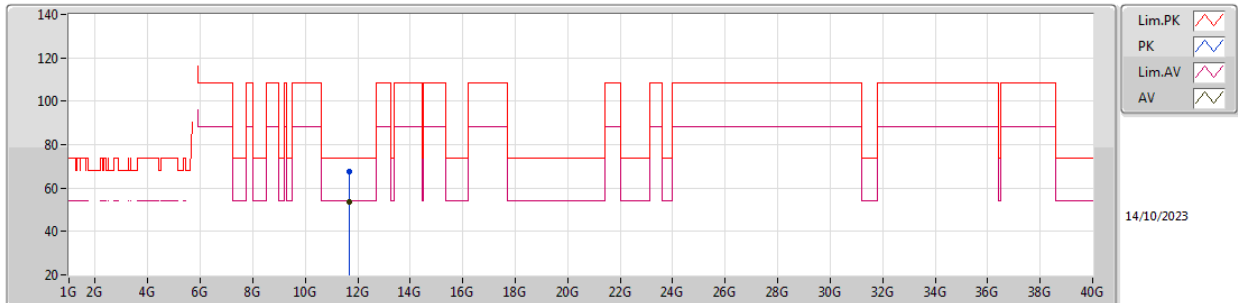


EUT Y_4TX
Setting Z1
06-H-S-5-10

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	5.6085G	58.82	68.20	-9.38	51.37	3	Horizontal	93	1.44	-	31.78	7.23	31.56			
PK	5.8435G	120.66	Inf	-Inf	112.54	3	Horizontal	93	1.44	-	32.30	7.41	31.59			
RMS	5.8435G	110.85	Inf	-Inf	102.73	3	Horizontal	93	1.44	-	32.30	7.41	31.59			
PK	5.94G	60.39	108.20	-47.81	51.96	3	Horizontal	93	1.44	-	32.58	7.45	31.60			
RMS	5.9635G	47.69	88.20	-40.51	39.27	3	Horizontal	93	1.44	-	32.57	7.46	31.61			

5.85-5.895GHz_802.11a_Nss1,(6Mbps)_4TX

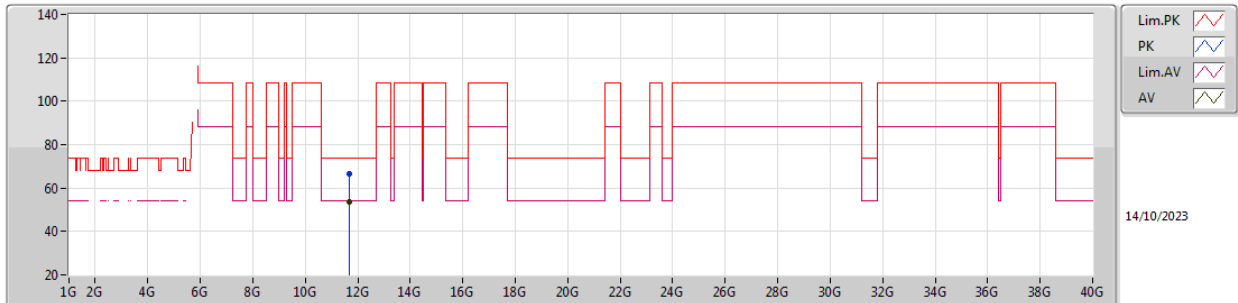
5845MHz_TX

EUT Y_4TX
Setting Z1
06-H-S-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	11.68658G	67.65	74.00	-6.35	61.01	3	Vertical	121	1.72	-	39.25	10.66	43.27			
AV	11.68712G	53.67	54.00	-0.33	47.03	3	Vertical	121	1.72	-	39.25	10.66	43.27			

5.85-5.895GHz_802.11a_Nss1,(6Mbps)_4TX

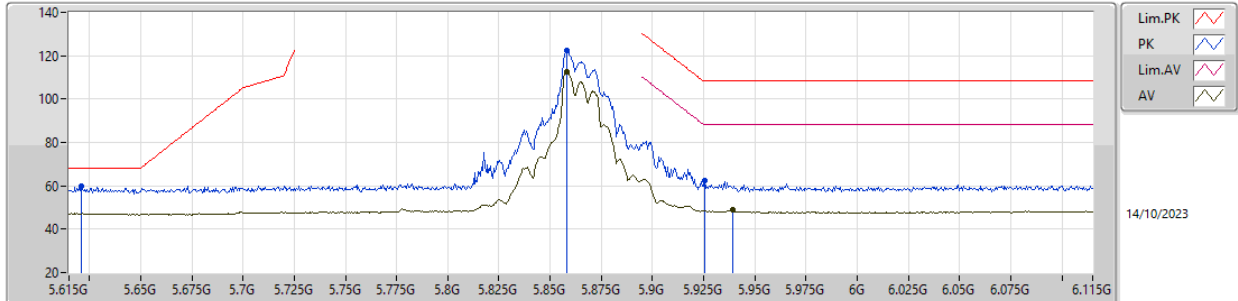
5845MHz_TX

EUT Y_4TX
Setting Z1
06-H-S-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	11.69336G	66.65	74.00	-7.35	60.03	3	Horizontal	246	1.29	-	39.23	10.66	43.27			
AV	11.69378G	53.41	54.00	-0.59	46.80	3	Horizontal	246	1.29	-	39.22	10.66	43.27			

5.85-5.895GHz_802.11a_Nss1,(6Mbps)_4TX

5865MHz_TX

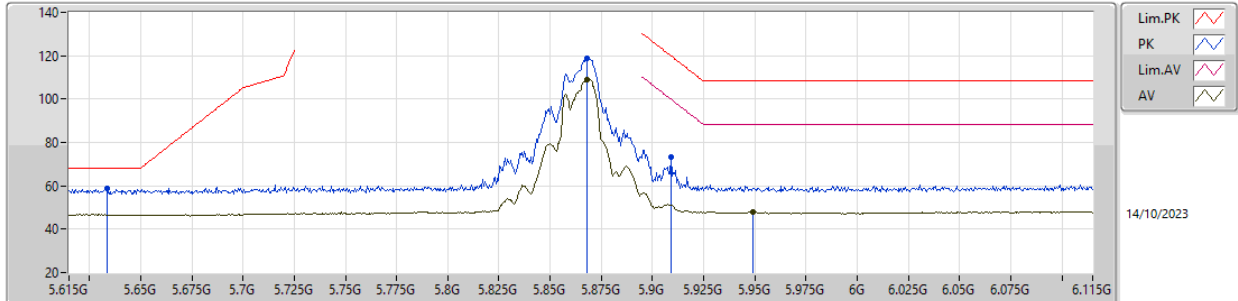


EUT Y_4TX
Setting 21.5
06-H-S-5-10

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	5.621G	59.69	68.20	-8.51	52.25	3	Vertical	62	1.35	-	31.76	7.24	31.56			
PK	5.858G	122.42	Inf	-Inf	114.27	3	Vertical	62	1.35	-	32.33	7.41	31.59			
RMS	5.858G	112.47	Inf	-Inf	104.32	3	Vertical	62	1.35	-	32.33	7.41	31.59			
PK	5.9255G	62.37	108.20	-45.83	53.98	3	Vertical	62	1.35	-	32.55	7.44	31.60			
RMS	5.939G	48.72	88.20	-39.48	40.29	3	Vertical	62	1.35	-	32.58	7.45	31.60			

5.85-5.895GHz_802.11a_Nss1,(6Mbps)_4TX

5865MHz_TX

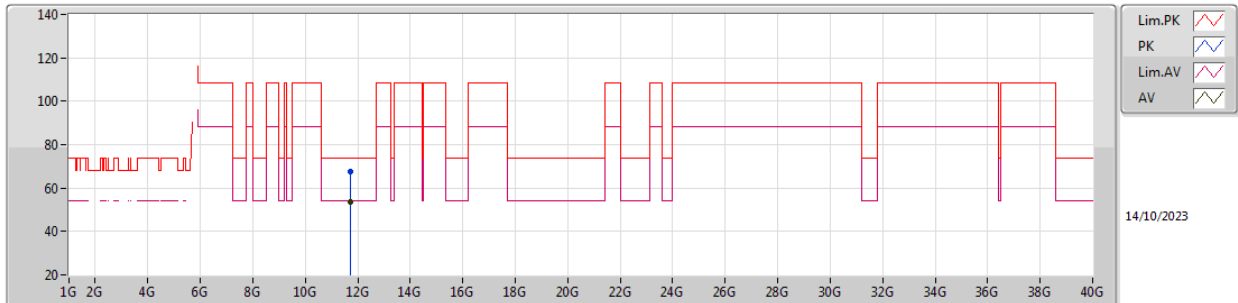


EUT Y_4TX
Setting 21.5
06-H-S-5-10

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	5.6335G	58.60	68.20	-9.60	51.19	3	Horizontal	29.7	1.34	-	31.73	7.25	31.57			
PK	5.868G	118.89	Inf	-Inf	110.69	3	Horizontal	29.7	1.34	-	32.37	7.42	31.59			
RMS	5.868G	109.16	Inf	-Inf	100.96	3	Horizontal	29.7	1.34	-	32.37	7.42	31.59			
PK	5.909G	73.45	119.93	-46.48	65.10	3	Horizontal	29.7	1.34	-	32.52	7.43	31.60			
RMS	5.949G	47.95	88.20	-40.25	39.50	3	Horizontal	29.7	1.34	-	32.60	7.45	31.60			

5.85-5.895GHz_802.11a_Nss1,(6Mbps)_4TX

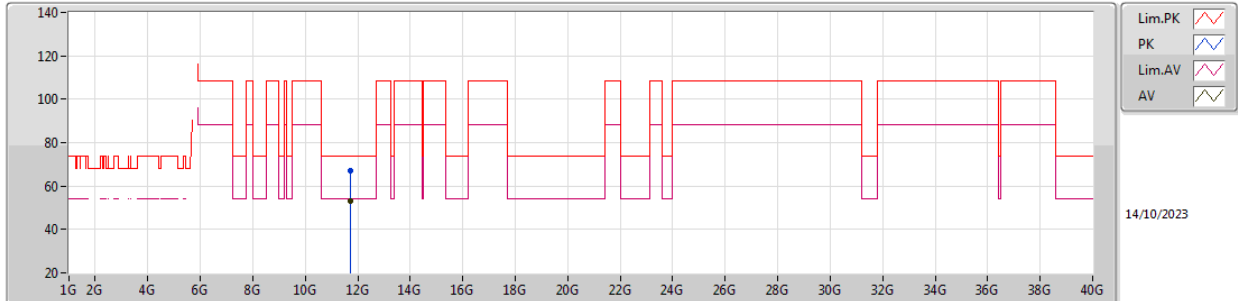
5865MHz_TX

EUT Y_4TX
Setting 21.5
06-H-S-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	11.72822G	67.64	74.00	-6.36	61.08	3	Vertical	116	1.66	-	39.14	10.68	43.26			
AV	11.72712G	53.73	54.00	-0.27	47.16	3	Vertical	116	1.66	-	39.15	10.68	43.26			

5.85-5.895GHz_802.11a_Nss1,(6Mbps)_4TX

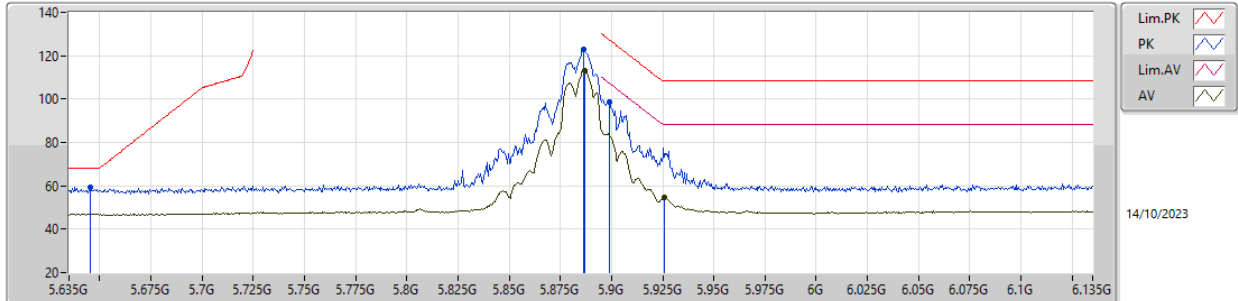
5865MHz_TX

EUT Y_4TX
Setting 21.5
06-H-S-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	11.7325G	67.06	74.00	-6.94	60.50	3	Horizontal	245	1.37	-	39.14	10.68	43.26			
AV	11.73362G	52.89	54.00	-1.11	46.34	3	Horizontal	245	1.37	-	39.13	10.68	43.26			

5.85-5.895GHz_802.11a_Nss1,(6Mbps)_4TX

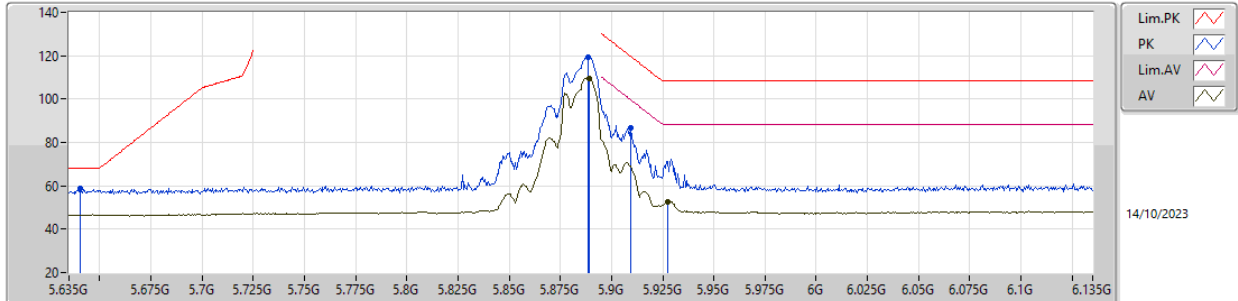
5885MHz_TX

EUT Y_4TX
Setting 22
06-H-S-5-10

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	5.6455G	59.55	68.20	-8.65	52.15	3	Vertical	45.7	2.08	-	31.71	7.26	31.57			
PK	5.8865G	123.02	Inf	-Inf	114.75	3	Vertical	45.7	2.08	-	32.45	7.42	31.60			
RMS	5.887G	113.08	Inf	-Inf	104.81	3	Vertical	45.7	2.08	-	32.45	7.42	31.60			
PK	5.899G	98.82	127.27	-28.45	90.49	3	Vertical	45.7	2.08	-	32.50	7.43	31.60			
RMS	5.926G	54.79	88.20	-33.41	46.40	3	Vertical	45.7	2.08	-	32.55	7.44	31.60			

5.85-5.895GHz_802.11a_Nss1,(6Mbps)_4TX

5885MHz_TX

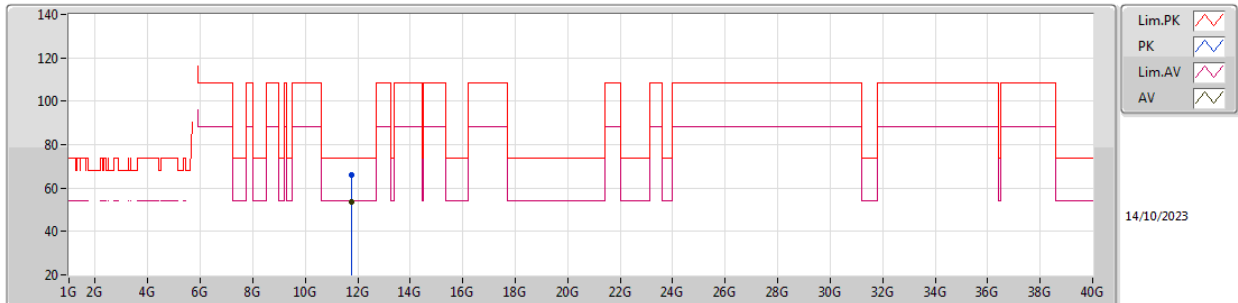


EUT Y_4TX
Setting 22
06-H-S-5-10

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	5.6405G	58.86	68.20	-9.34	51.46	3	Horizontal	31.3	1.47	-	31.72	7.25	31.57			
PK	5.8885G	119.38	Inf	-Inf	111.10	3	Horizontal	31.3	1.47	-	32.45	7.43	31.60			
RMS	5.889G	109.73	Inf	-Inf	101.44	3	Horizontal	31.3	1.47	-	32.46	7.43	31.60			
PK	5.9095G	86.47	119.57	-33.10	78.12	3	Horizontal	31.3	1.47	-	32.52	7.43	31.60			
RMS	5.9275G	52.68	88.20	-35.52	44.29	3	Horizontal	31.3	1.47	-	32.55	7.44	31.60			

5.85-5.895GHz_802.11a_Nss1,(6Mbps)_4TX

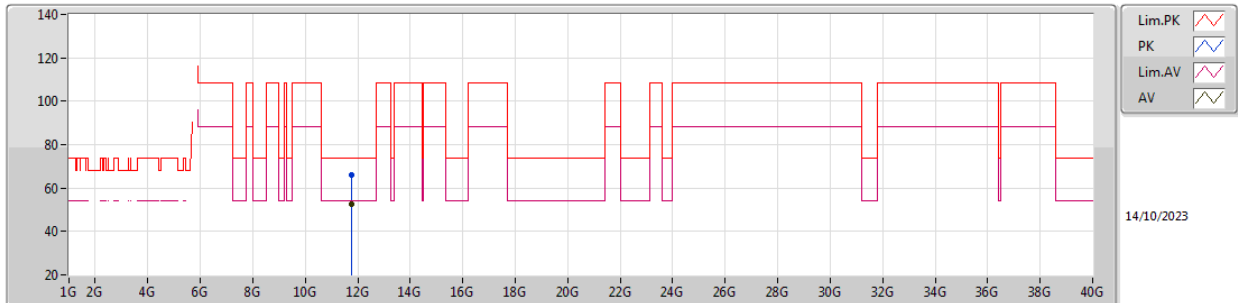
5885MHz_TX

EUT Y_4TX
Setting 22
06-H-S-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	11.76808G	66.20	74.00	-7.80	59.73	3	Vertical	118	1.69	-	39.03	10.70	43.26			
AV	11.7675G	53.73	54.00	-0.27	47.26	3	Vertical	118	1.69	-	39.03	10.70	43.26			

5.85-5.895GHz_802.11a_Nss1,(6Mbps)_4TX

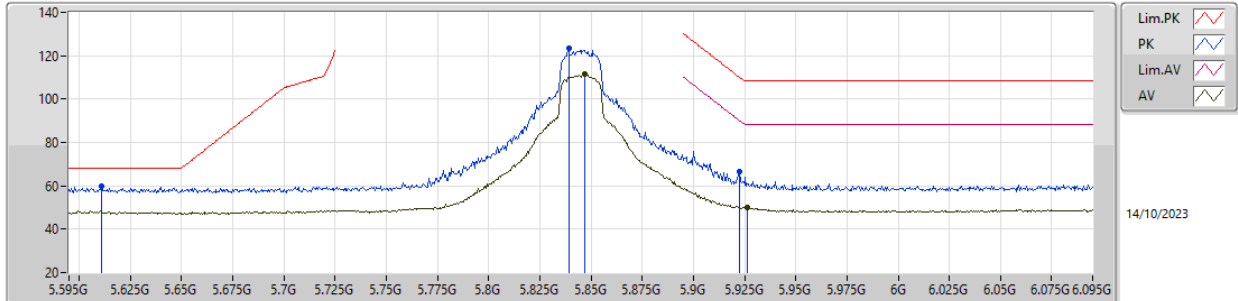
5885MHz_TX

EUT Y_4TX
Setting 22
06-H-S-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	11.77486G	66.04	74.00	-7.96	59.60	3	Horizontal	245.8	1.29	-	39.00	10.70	43.26			
AV	11.77382G	52.40	54.00	-1.60	45.96	3	Horizontal	245.8	1.29	-	39.00	10.70	43.26			

5.85-5.895GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

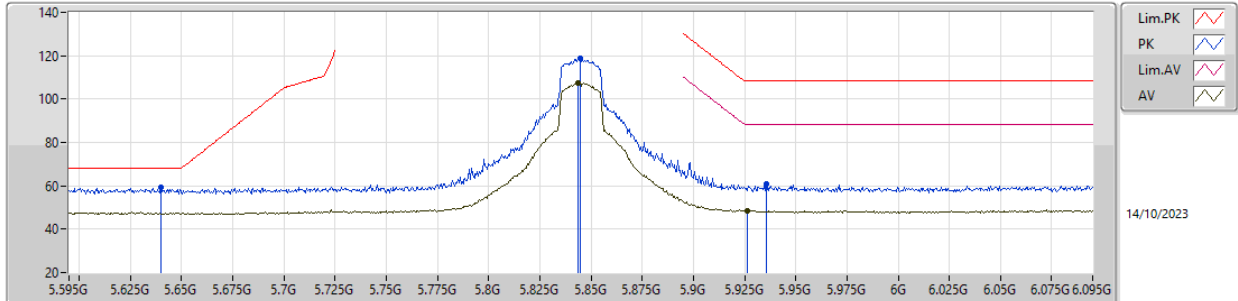
5845MHz_TX

EUT Y_4TX
Setting 22
06-H-S-5-10

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	5.611G	59.58	68.20	-8.62	52.13	3	Vertical	57.3	1.55	-	31.78	7.23	31.56			
PK	5.839G	123.58	Inf	-Inf	115.46	3	Vertical	57.3	1.55	-	32.30	7.41	31.59			
RMS	5.847G	111.39	Inf	-Inf	103.27	3	Vertical	57.3	1.55	-	32.30	7.41	31.59			
PK	5.9225G	66.70	110.03	-43.33	58.31	3	Vertical	57.3	1.55	-	32.55	7.44	31.60			
RMS	5.9265G	50.16	88.20	-38.04	41.77	3	Vertical	57.3	1.55	-	32.55	7.44	31.60			

5.85-5.895GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

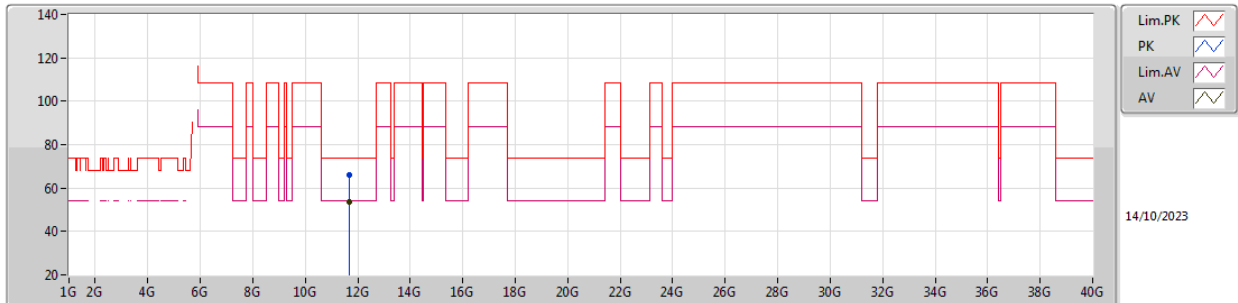
5845MHz_TX

EUT Y_4TX
Setting 22
06-H-S-5-10

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	5.64G	59.34	68.20	-8.86	51.94	3	Horizontal	85.5	1.80	-	31.72	7.25	31.57			
PK	5.8445G	118.80	Inf	-Inf	110.68	3	Horizontal	85.5	1.80	-	32.30	7.41	31.59			
RMS	5.8435G	107.57	Inf	-Inf	99.45	3	Horizontal	85.5	1.80	-	32.30	7.41	31.59			
PK	5.9355G	60.69	108.20	-47.51	52.28	3	Horizontal	85.5	1.80	-	32.57	7.44	31.60			
RMS	5.9265G	48.52	88.20	-39.68	40.13	3	Horizontal	85.5	1.80	-	32.55	7.44	31.60			

5.85-5.895GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

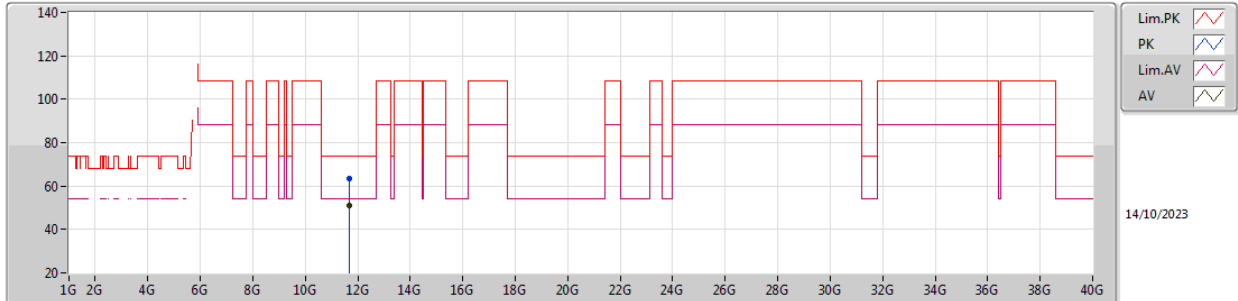
5845MHz_TX

EUT Y_4TX
Setting 22
06-H-S-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	11.68588G	65.78	74.00	-8.22	59.13	3	Vertical	122	1.80	-	39.26	10.66	43.27			
AV	11.687G	53.87	54.00	-0.13	47.23	3	Vertical	122	1.80	-	39.25	10.66	43.27			

5.85-5.895GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

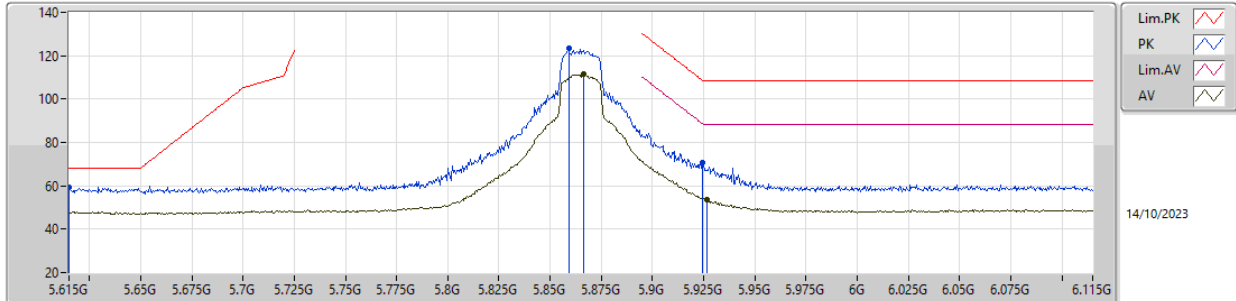
5845MHz_TX

EUT Y_4TX
Setting 22
06-H-S-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	11.69474G	63.59	74.00	-10.41	56.97	3	Horizontal	244	1.64	-	39.22	10.67	43.27			
AV	11.69344G	51.00	54.00	-3.00	44.38	3	Horizontal	244	1.64	-	39.23	10.66	43.27			

5.85-5.895GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

5865MHz_TX

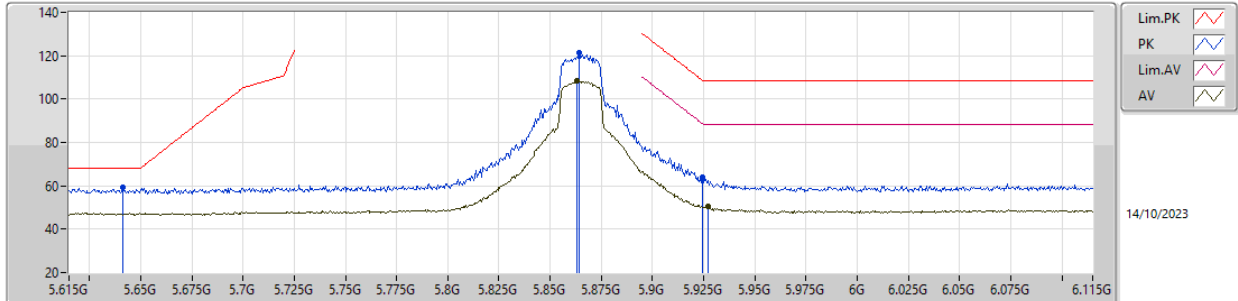


EUT Y_4TX
Setting 23
06-H-S-5-10

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	5.615G	59.20	68.20	-9.00	51.76	3	Vertical	61.4	1.33	-	31.77	7.23	31.56			
PK	5.859G	123.35	Inf	-Inf	115.19	3	Vertical	61.4	1.33	-	32.34	7.41	31.59			
RMS	5.8665G	111.77	Inf	-Inf	103.57	3	Vertical	61.4	1.33	-	32.37	7.42	31.59			
PK	5.9245G	70.71	108.57	-37.86	62.32	3	Vertical	61.4	1.33	-	32.55	7.44	31.60			
RMS	5.9265G	53.78	88.20	-34.42	45.39	3	Vertical	61.4	1.33	-	32.55	7.44	31.60			

5.85-5.895GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

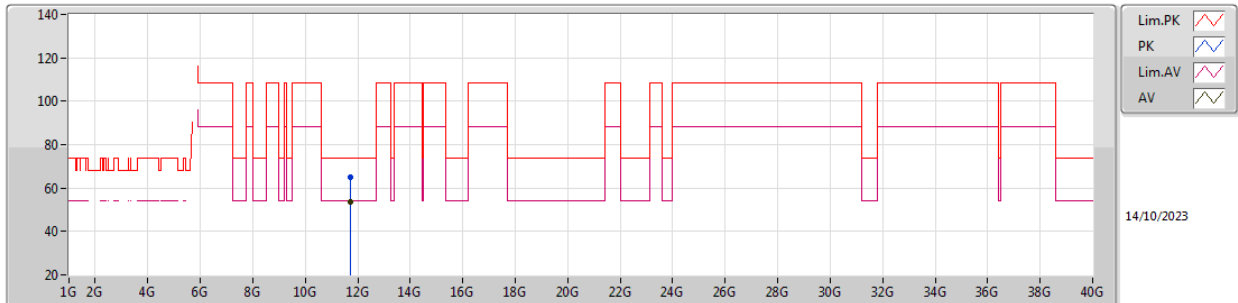
5865MHz_TX

EUT Y_4TX
Setting 23
06-H-S-5-10

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	5.6415G	59.06	68.20	-9.14	51.65	3	Horizontal	54.7	2.03	-	31.72	7.26	31.57			
PK	5.864G	121.61	Inf	-Inf	113.42	3	Horizontal	54.7	2.03	-	32.36	7.42	31.59			
RMS	5.863G	108.24	Inf	-Inf	100.06	3	Horizontal	54.7	2.03	-	32.35	7.42	31.59			
PK	5.9245G	63.97	108.57	-44.60	55.58	3	Horizontal	54.7	2.03	-	32.55	7.44	31.60			
RMS	5.927G	50.72	88.20	-37.48	42.33	3	Horizontal	54.7	2.03	-	32.55	7.44	31.60			

5.85-5.895GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

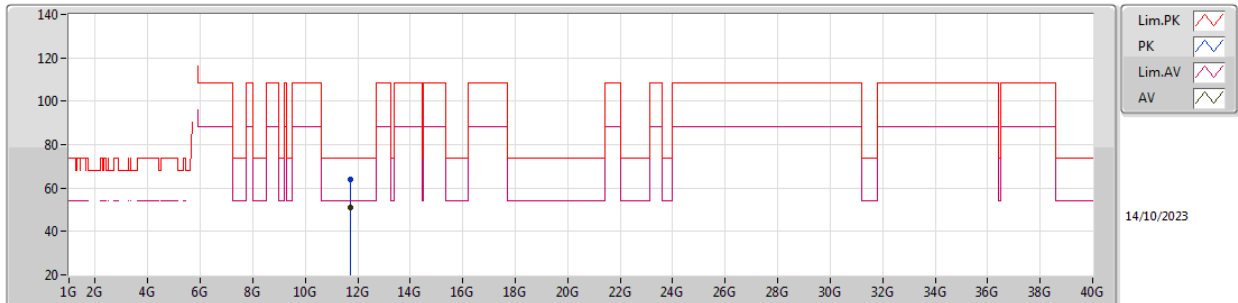
5865MHz_TX

EUT Y_4TX
Setting 23
06-H-S-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	11.7274G	65.18	74.00	-8.82	58.61	3	Vertical	120	1.82	-	39.15	10.68	43.26			
AV	11.72738G	53.86	54.00	-0.14	47.29	3	Vertical	120	1.82	-	39.15	10.68	43.26			

5.85-5.895GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

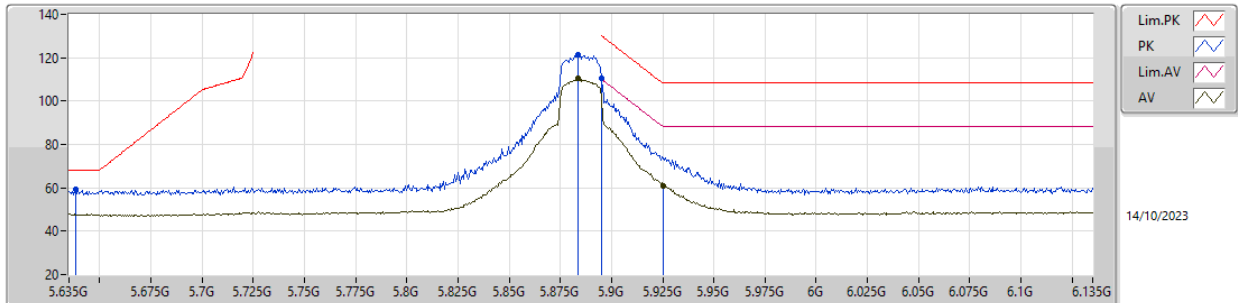
5865MHz_TX

EUT Y_4TX
Setting 23
06-H-S-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	11.73492G	63.73	74.00	-10.27	57.18	3	Horizontal	246	1.29	-	39.13	10.68	43.26			
AV	11.72668G	51.04	54.00	-2.96	44.47	3	Horizontal	246	1.29	-	39.15	10.68	43.26			

5.85-5.895GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

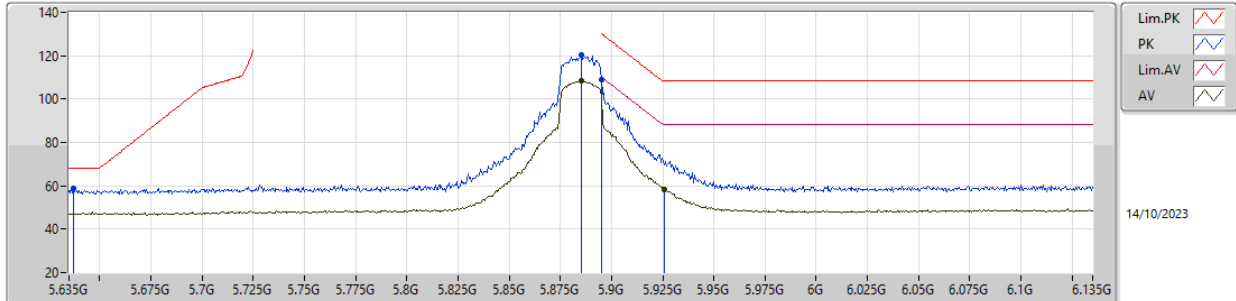
5885MHz_TX

EUT Y_4TX
Setting 23
06-H-S-5-10

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	5.6385G	59.48	68.20	-8.72	52.08	3	Vertical	100.9	1.57	-	31.72	7.25	31.57			
PK	5.8835G	121.58	Inf	-Inf	113.33	3	Vertical	100.9	1.57	-	32.43	7.42	31.60			
RMS	5.8835G	110.28	Inf	-Inf	102.03	3	Vertical	100.9	1.57	-	32.43	7.42	31.60			
PK	5.895G	110.69	130.20	-19.51	102.38	3	Vertical	100.9	1.57	-	32.48	7.43	31.60			
RMS	5.9255G	60.86	108.20	-47.34	52.47	3	Vertical	100.9	1.57	-	32.55	7.44	31.60			

5.85-5.895GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

5885MHz_TX

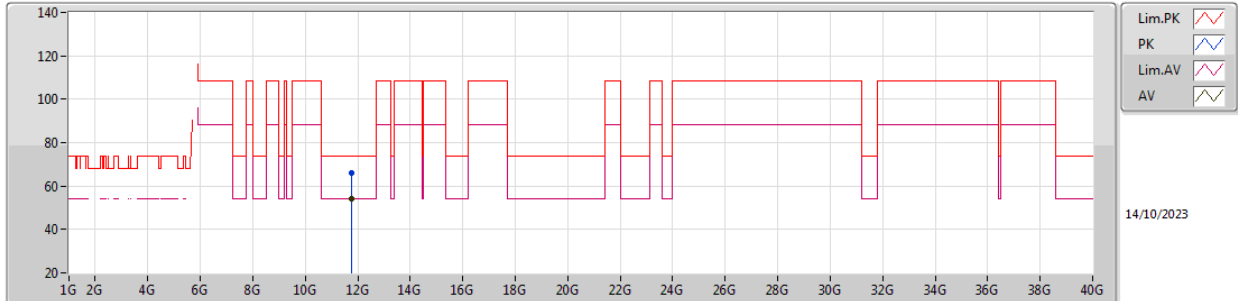


EUT Y_4TX
Setting 23
06-H-S-5-10

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	5.637G	58.78	68.20	-9.42	51.37	3	Horizontal	49.2	2.02	-	31.73	7.25	31.57			
PK	5.8855G	120.59	Inf	-Inf	112.33	3	Horizontal	49.2	2.02	-	32.44	7.42	31.60			
RMS	5.8855G	108.43	Inf	-Inf	100.17	3	Horizontal	49.2	2.02	-	32.44	7.42	31.60			
PK	5.895G	108.71	130.20	-21.49	100.40	3	Horizontal	49.2	2.02	-	32.48	7.43	31.60			
RMS	5.926G	58.46	88.20	-29.74	50.07	3	Horizontal	49.2	2.02	-	32.55	7.44	31.60			

5.85-5.895GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

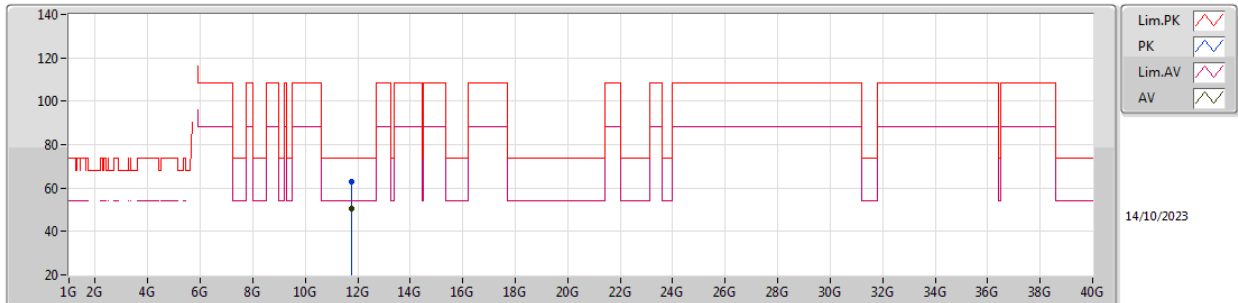
5885MHz_TX

EUT Y_4TX
Setting 23
06-H-S-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	11.77058G	65.80	74.00	-8.20	59.34	3	Vertical	121	1.83	-	39.02	10.70	43.26			
AV	11.76734G	53.97	54.00	-0.03	47.50	3	Vertical	121	1.83	-	39.03	10.70	43.26			

5.85-5.895GHz_802.11ax HEW20_Nss1,(MCS0)_4TX

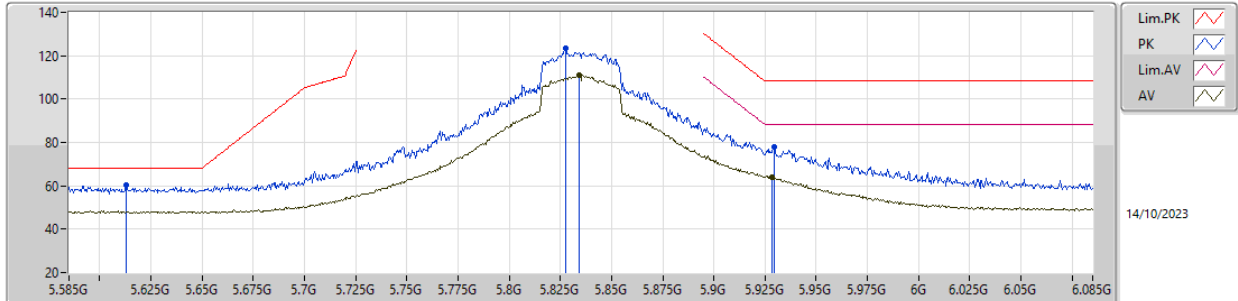
5885MHz_TX

EUT Y_4TX
Setting 23
06-H-S-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	11.7736G	62.71	74.00	-11.29	56.26	3	Horizontal	246	1.80	-	39.01	10.70	43.26			
AV	11.76954G	50.45	54.00	-3.55	43.99	3	Horizontal	246	1.80	-	39.02	10.70	43.26			

5.85-5.895GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

5835MHz_TX

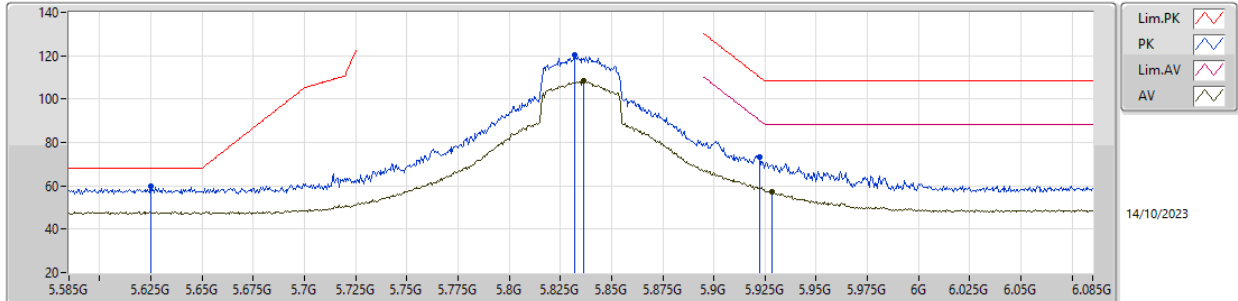


EUT Y_4TX
Setting 24
06-H-S-5-10

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	5.613G	60.14	68.20	-8.06	52.70	3	Vertical	71	1.39	-	31.77	7.23	31.56			
PK	5.8275G	123.28	Inf	-Inf	115.17	3	Vertical	71	1.39	-	32.30	7.40	31.59			
RMS	5.834G	111.17	Inf	-Inf	103.06	3	Vertical	71	1.39	-	32.30	7.40	31.59			
PK	5.9295G	78.16	108.20	-30.04	69.76	3	Vertical	71	1.39	-	32.56	7.44	31.60			
RMS	5.9285G	63.96	88.20	-24.24	55.56	3	Vertical	71	1.39	-	32.56	7.44	31.60			

5.85-5.895GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

5835MHz_TX

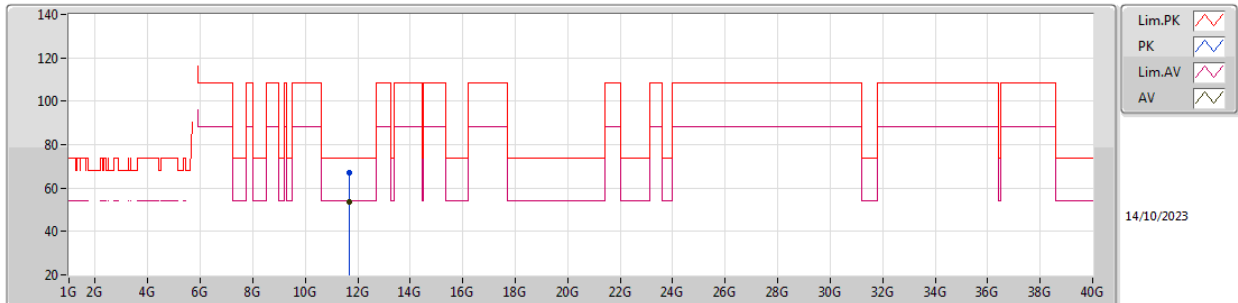


EUT Y_4TX
Setting 24
06-H-S-5-10

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	5.625G	59.95	68.20	-8.25	52.53	3	Horizontal	88	1.45	-	31.75	7.24	31.57			
PK	5.832G	120.32	Inf	-Inf	112.21	3	Horizontal	88	1.45	-	32.30	7.40	31.59			
RMS	5.8365G	108.67	Inf	-Inf	100.56	3	Horizontal	88	1.45	-	32.30	7.40	31.59			
PK	5.9225G	73.14	110.03	-36.89	64.75	3	Horizontal	88	1.45	-	32.55	7.44	31.60			
RMS	5.9285G	57.17	88.20	-31.03	48.77	3	Horizontal	88	1.45	-	32.56	7.44	31.60			

5.85-5.895GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

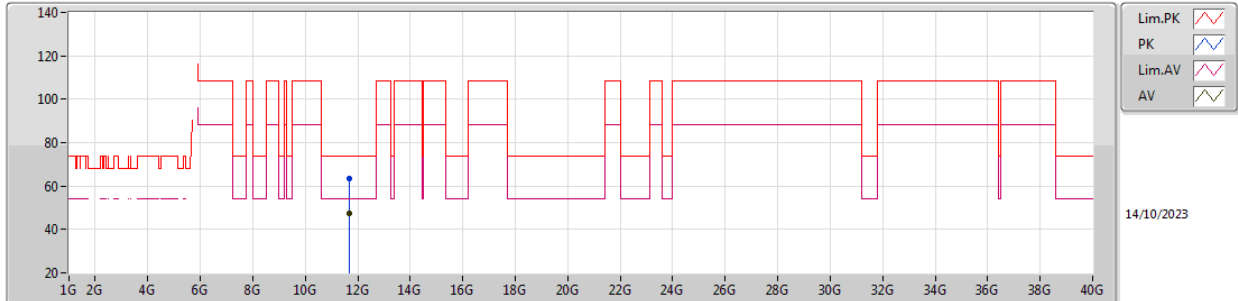
5835MHz_TX

EUT Y_4TX
Setting 24
06-H-S-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	11.6687G	66.93	74.00	-7.07	60.22	3	Vertical	121	1.87	-	39.33	10.65	43.27			
AV	11.66274G	53.87	54.00	-0.13	47.14	3	Vertical	121	1.87	-	39.35	10.65	43.27			

5.85-5.895GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

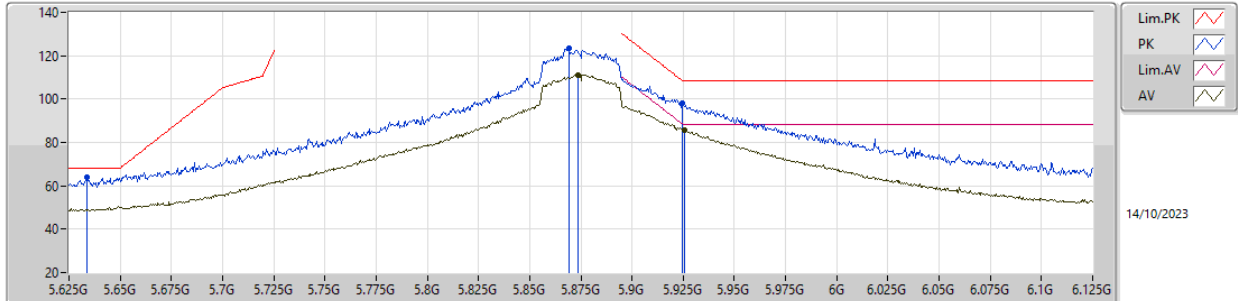
5835MHz_TX

EUT Y_4TX
Setting 24
06-H-S-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	11.66888G	63.43	74.00	-10.57	56.73	3	Horizontal	83.4	1.80	-	39.32	10.65	43.27			
AV	11.66512G	47.32	54.00	-6.68	40.60	3	Horizontal	83.4	1.80	-	39.34	10.65	43.27			

5.85-5.895GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

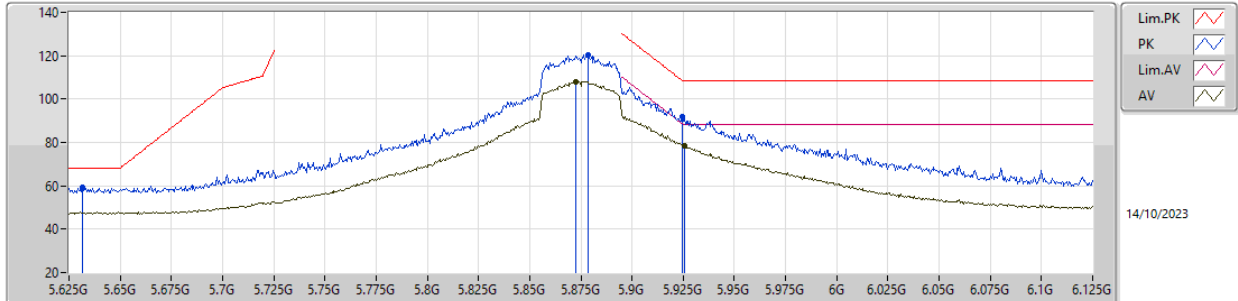
5875MHz_TX

EUT Y_4TX
Setting 23.5
06-H-S-5-10

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	5.6335G	63.86	68.20	-4.34	56.45	3	Vertical	60	1.45	-	31.73	7.25	31.57			
PK	5.869G	123.22	Inf	-Inf	115.01	3	Vertical	60	1.45	-	32.38	7.42	31.59			
RMS	5.8735G	111.27	Inf	-Inf	103.05	3	Vertical	60	1.45	-	32.39	7.42	31.59			
PK	5.9245G	97.92	108.57	-10.65	89.53	3	Vertical	60	1.45	-	32.55	7.44	31.60			
RMS	5.9255G	85.86	88.20	-2.34	77.47	3	Vertical	60	1.45	-	32.55	7.44	31.60			

5.85-5.895GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

5875MHz_TX

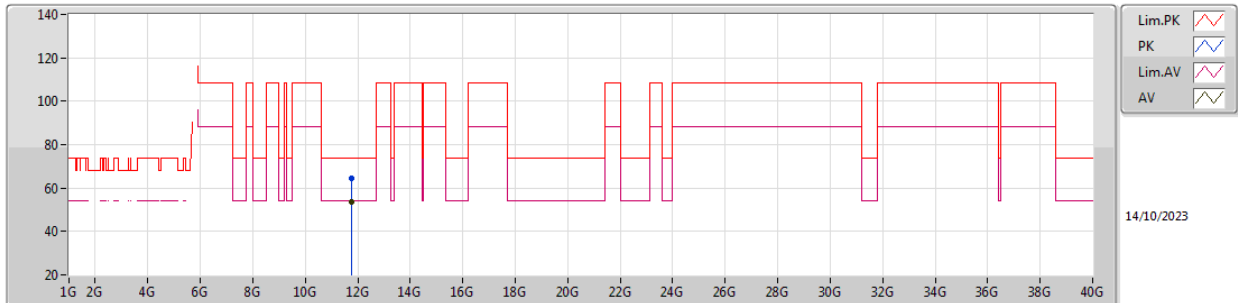


EUT Y_4TX
Setting 23.5
06-H-S-5-10

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	5.6315G	59.18	68.20	-9.02	51.76	3	Horizontal	32	2.08	-	31.74	7.25	31.57			
PK	5.8785G	120.36	Inf	-Inf	112.13	3	Horizontal	32	2.08	-	32.41	7.42	31.60			
RMS	5.8725G	108.05	Inf	-Inf	99.83	3	Horizontal	32	2.08	-	32.39	7.42	31.59			
PK	5.9245G	91.79	108.57	-16.78	83.40	3	Horizontal	32	2.08	-	32.55	7.44	31.60			
RMS	5.9255G	78.53	88.20	-9.67	70.14	3	Horizontal	32	2.08	-	32.55	7.44	31.60			

5.85-5.895GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

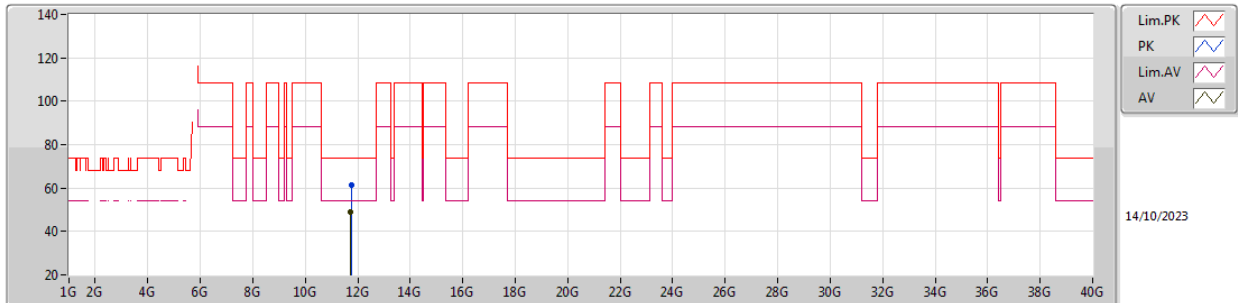
5875MHz_TX

EUT Y_4TX
Setting 23.5
06-H-S-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	11.74454G	64.68	74.00	-9.32	58.14	3	Vertical	124	1.80	-	39.11	10.69	43.26			
AV	11.74718G	53.85	54.00	-0.15	47.31	3	Vertical	124	1.80	-	39.11	10.69	43.26			

5.85-5.895GHz_802.11ax HEW40_Nss1,(MCS0)_4TX

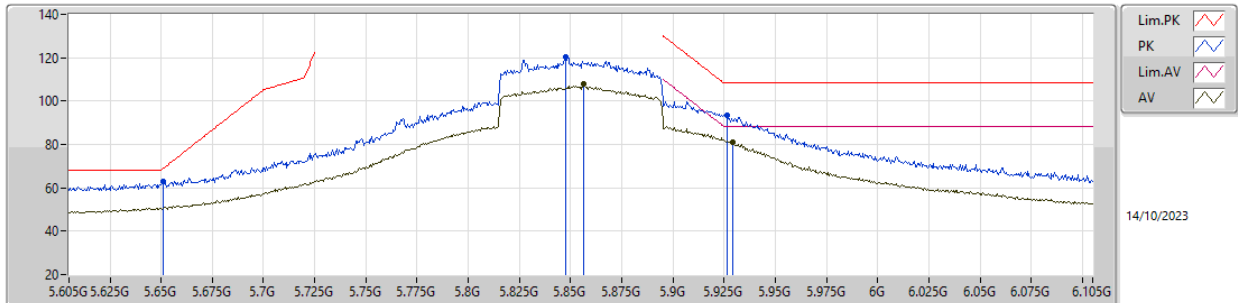
5875MHz_TX

EUT Y_4TX
Setting 23.5
06-H-S-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	11.7539G	61.43	74.00	-12.57	54.92	3	Horizontal	242.6	1.86	-	39.08	10.69	43.26			
AV	11.74272G	49.21	54.00	-4.79	42.67	3	Horizontal	242.6	1.86	-	39.11	10.69	43.26			

5.85-5.895GHz_802.11ax HEW80_Nss1,(MCS0)_4TX

5855MHz_TX

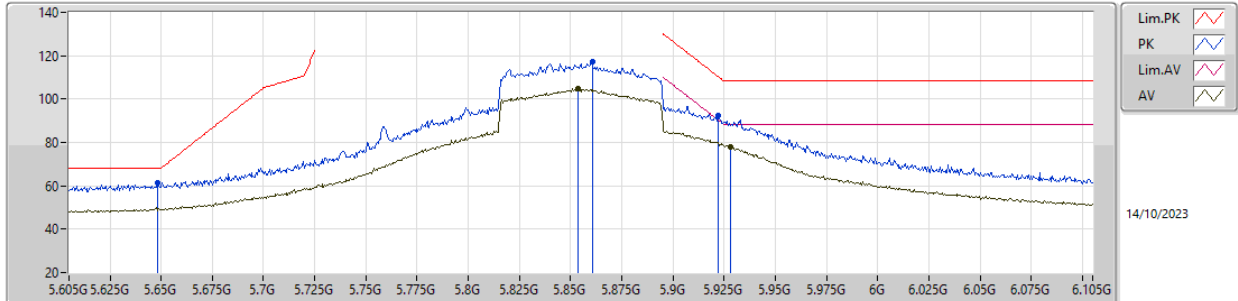


EUT Y_4TX
Setting 24.5
06-H-S-5-10

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	5.651G	62.71	68.94	-6.23	55.32	3	Vertical	62	1.80	-	31.70	7.26	31.57			
PK	5.8475G	120.19	Inf	-Inf	112.07	3	Vertical	62	1.80	-	32.30	7.41	31.59			
RMS	5.8565G	107.70	Inf	-Inf	99.55	3	Vertical	62	1.80	-	32.33	7.41	31.59			
PK	5.9265G	93.67	108.20	-14.53	85.28	3	Vertical	62	1.80	-	32.55	7.44	31.60			
RMS	5.929G	81.29	88.20	-6.91	72.89	3	Vertical	62	1.80	-	32.56	7.44	31.60			

5.85-5.895GHz_802.11ax HEW80_Nss1,(MCS0)_4TX

5855MHz_TX

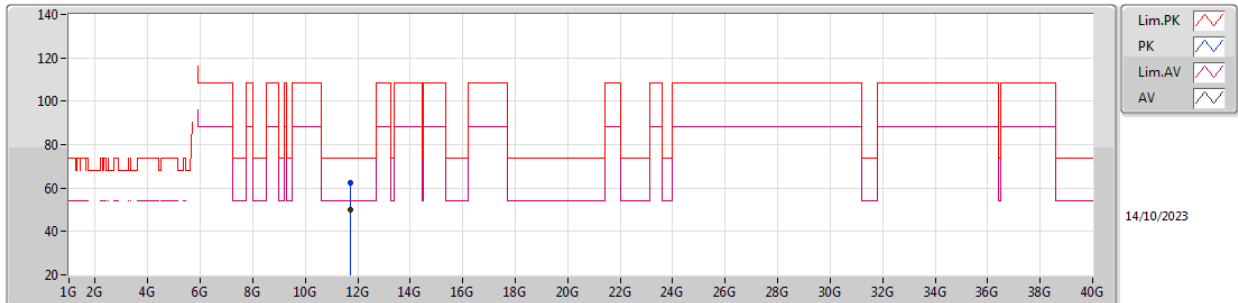


EUT Y_4TX
Setting 24.5
06-H-S-5-10

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	5.648G	61.47	68.20	-6.73	54.08	3	Horizontal	24.6	2.01	-	31.70	7.26	31.57			
PK	5.8605G	117.16	Inf	-Inf	109.00	3	Horizontal	24.6	2.01	-	32.34	7.41	31.59			
RMS	5.8535G	104.73	Inf	-Inf	96.60	3	Horizontal	24.6	2.01	-	32.31	7.41	31.59			
PK	5.922G	92.35	110.40	-18.05	83.97	3	Horizontal	24.6	2.01	-	32.54	7.44	31.60			
RMS	5.928G	78.14	88.20	-10.06	69.74	3	Horizontal	24.6	2.01	-	32.56	7.44	31.60			

5.85-5.895GHz_802.11ax HEW80_Nss1,(MCS0)_4TX

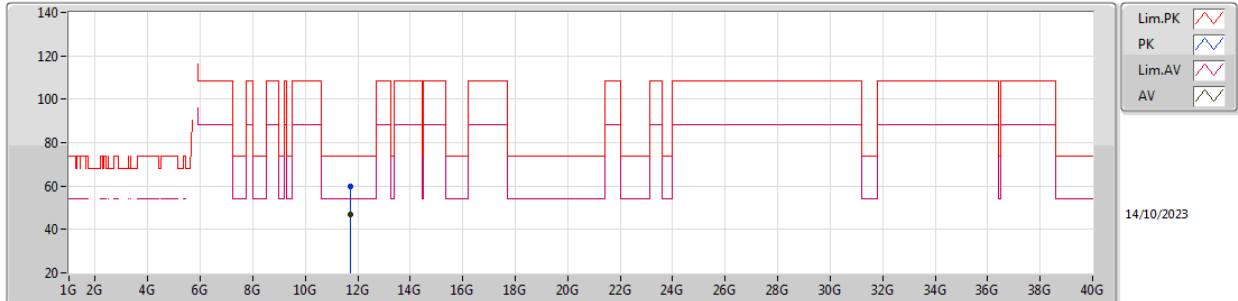
5855MHz_TX

EUT Y_4TX
Setting 24.5
06-H-S-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	11.70408G	62.56	74.00	-11.44	55.97	3	Vertical	122	1.84	-	39.19	10.67	43.27			
AV	11.7164G	50.18	54.00	-3.82	43.60	3	Vertical	122	1.84	-	39.17	10.68	43.27			

5.85-5.895GHz_802.11ax HEW80_Nss1,(MCS0)_4TX

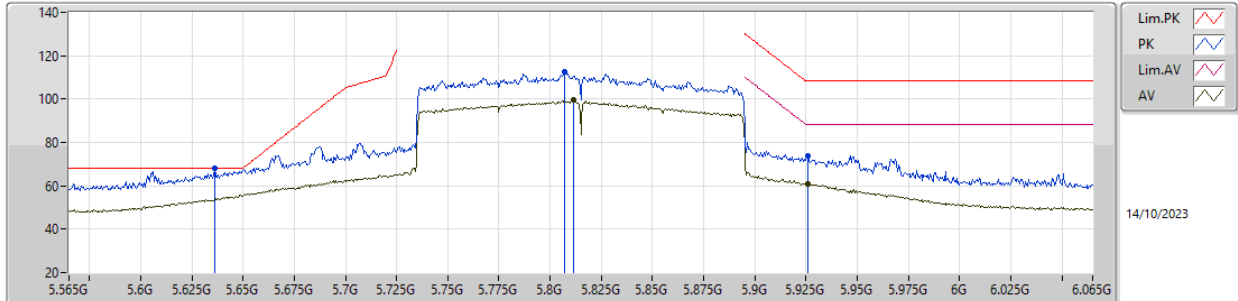
5855MHz_TX

EUT Y_4TX
Setting 24.5
06-H-S-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	11.7033G	59.60	74.00	-14.40	53.01	3	Horizontal	247.4	1.80	-	39.19	10.67	43.27			
AV	11.71798G	46.76	54.00	-7.24	40.19	3	Horizontal	247.4	1.80	-	39.16	10.68	43.27			

5.85-5.895GHz_802.11ax HEW160_Nss1,(MCS0)_4TX

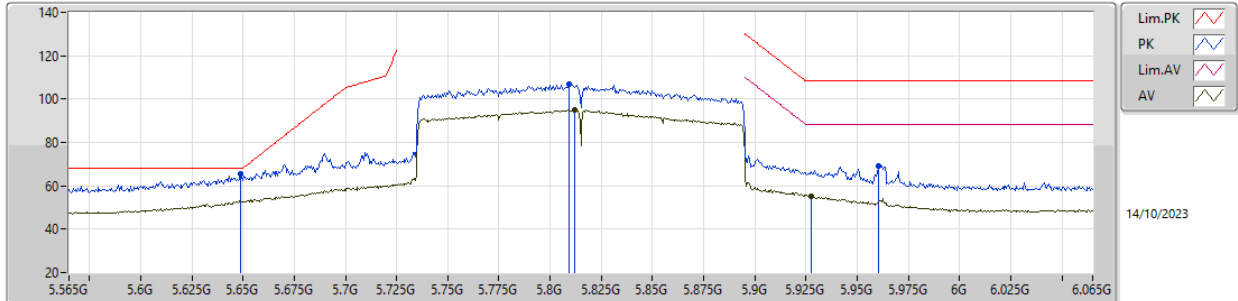
5815MHz_TX

EUT Y_4TX
Setting 18.5
06-H-S-5-10

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	5.636G	67.90	68.20	-0.30	60.49	3	Vertical	64	1.40	-	31.73	7.25	31.57			
PK	5.807G	112.42	Inf	-Inf	104.32	3	Vertical	64	1.40	-	32.30	7.39	31.59			
RMS	5.8115G	99.62	Inf	-Inf	91.52	3	Vertical	64	1.40	-	32.30	7.39	31.59			
PK	5.926G	73.65	108.20	-34.55	65.26	3	Vertical	64	1.40	-	32.55	7.44	31.60			
RMS	5.926G	60.88	88.20	-27.32	52.49	3	Vertical	64	1.40	-	32.55	7.44	31.60			

5.85-5.895GHz_802.11ax HEW160_Nss1,(MCS0)_4TX

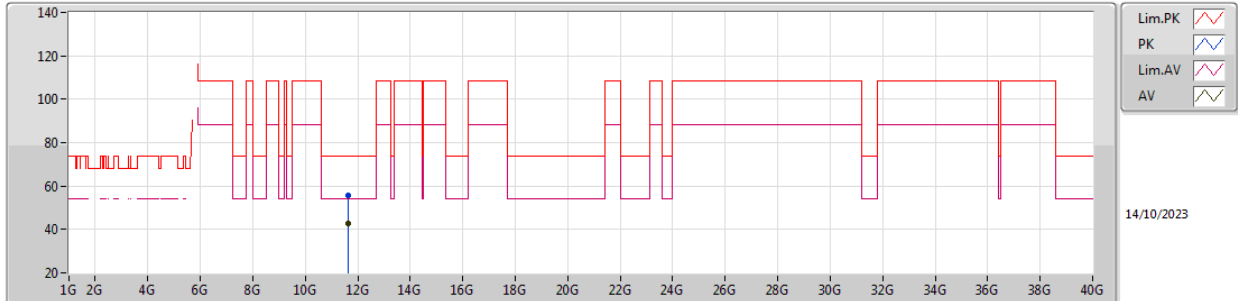
5815MHz_TX

EUT Y_4TX
Setting 18.5
06-H-S-5-10

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	5.649G	65.58	68.20	-2.62	58.19	3	Horizontal	103.9	1.55	-	31.70	7.26	31.57			
PK	5.8095G	106.94	Inf	-Inf	98.84	3	Horizontal	103.9	1.55	-	32.30	7.39	31.59			
RMS	5.812G	94.91	Inf	-Inf	86.81	3	Horizontal	103.9	1.55	-	32.30	7.39	31.59			
PK	5.9605G	68.97	108.20	-39.23	60.55	3	Horizontal	103.9	1.55	-	32.58	7.45	31.61			
RMS	5.9275G	55.23	88.20	-32.97	46.84	3	Horizontal	103.9	1.55	-	32.55	7.44	31.60			

5.85-5.895GHz_802.11ax HEW160_Nss1,(MCS0)_4TX

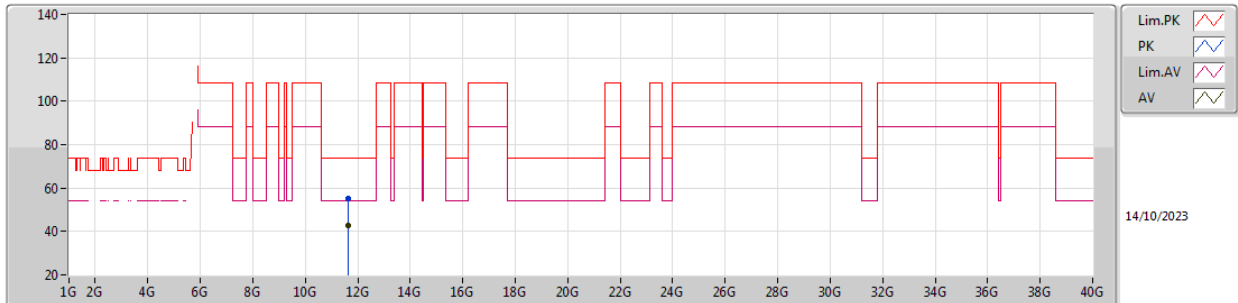
5815MHz_TX

EUT Y_4TX
Setting 18.5
06-H-S-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	11.62962G	55.54	74.00	-18.46	48.63	3	Vertical	166	1.55	-	39.56	10.63	43.28			
AV	11.63068G	42.89	54.00	-11.11	35.99	3	Vertical	166	1.55	-	39.55	10.63	43.28			

5.85-5.895GHz_802.11ax HEW160_Nss1,(MCS0)_4TX

5815MHz_TX

EUT Y_4TX
Setting 18.5
06-H-S-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	11.6283G	55.37	74.00	-18.63	48.45	3	Horizontal	57	1.58	-	39.57	10.63	43.28			
AV	11.6259G	42.90	54.00	-11.10	35.96	3	Horizontal	57	1.58	-	39.59	10.63	43.28			



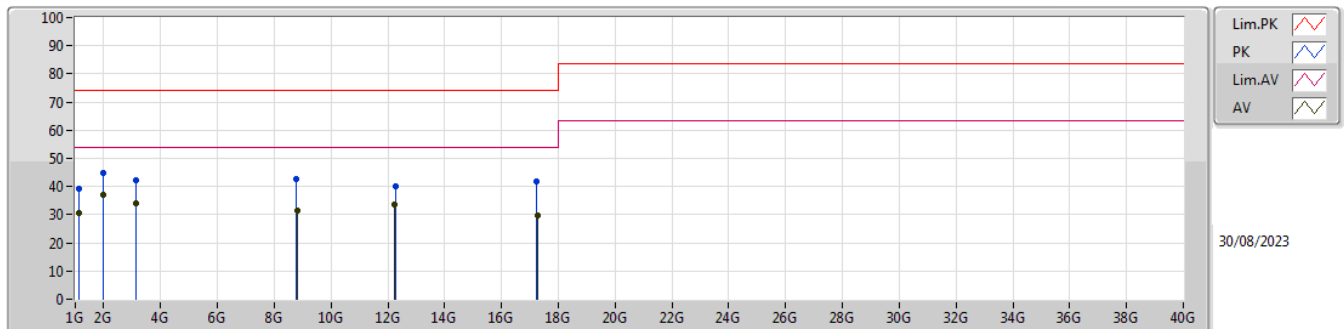
Radiated Emissions above 1GHz

Appendix F

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	1.98669G	41.96	54.00	-12.04	Horizontal

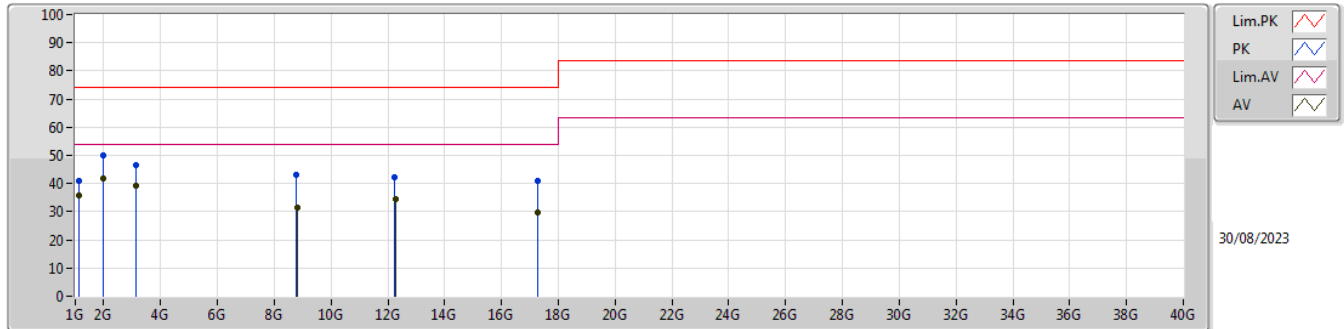
Mode 1



EUT Y
Power AC120V/60Hz
05-M-G-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)		
PK	1.12094G	39.19	74.00	-34.81	-8.18	3	Vertical	307	2.91	-	47.37	25.70	2.98	36.86		
AV	1.12514G	30.72	54.00	-23.28	-8.17	3	Vertical	307	2.91	-	38.89	25.70	2.99	36.86		
PK	1.98202G	44.97	74.00	-29.03	-6.40	3	Vertical	201	2.16	-	51.37	26.32	3.98	36.70		
AV	1.98534G	36.98	54.00	-17.02	-6.36	3	Vertical	201	2.16	"Worst"	43.34	26.35	3.99	36.70		
PK	3.12671G	42.07	74.00	-31.93	-1.67	3	Vertical	232	1.42	-	43.74	29.80	4.93	36.40		
AV	3.12565G	34.25	54.00	-19.75	-1.67	3	Vertical	232	1.42	-	35.92	29.80	4.93	36.40		
PK	8.79265G	42.79	74.00	-31.21	11.96	3	Vertical	321	2.58	-	30.83	37.70	8.10	33.84		
AV	8.8246G	31.36	54.00	-22.64	12.04	3	Vertical	321	2.58	-	19.32	37.75	8.11	33.82		
PK	12.25627G	40.19	74.00	-33.81	15.24	3	Vertical	354	2.98	-	24.95	38.90	9.52	33.18		
AV	12.24432G	33.42	54.00	-20.58	15.22	3	Vertical	354	2.98	-	18.20	38.90	9.51	33.19		
PK	17.24819G	41.91	74.00	-32.09	17.09	3	Vertical	101	1.16	-	24.82	38.69	11.40	33.00		
AV	17.25495G	29.92	54.00	-24.08	17.09	3	Vertical	101	1.16	-	12.83	38.70	11.40	33.01		

Mode 1



EUT Y
Power AC120V/60Hz
05-M-G-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)		
PK	1.1202G	41.00	74.00	-33.00	-8.18	3	Horizontal	151	1.22	-	49.18	25.70	2.98	36.86		
AV	1.12175G	35.74	54.00	-18.26	-8.18	3	Horizontal	151	1.22	-	43.92	25.70	2.98	36.86		
PK	1.98536G	50.17	74.00	-23.83	-6.36	3	Horizontal	136	1.00	-	56.53	26.35	3.99	36.70		
AV	1.98669G	41.96	54.00	-12.04	-6.34	3	Horizontal	136	1.00	"Worst"	48.30	26.37	3.99	36.70		
PK	3.12445G	46.53	74.00	-27.47	-1.69	3	Horizontal	297	2.42	-	48.22	29.80	4.92	36.41		
AV	3.1296G	39.25	54.00	-14.75	-1.67	3	Horizontal	297	2.42	-	40.92	29.80	4.93	36.40		
PK	8.79305G	42.96	74.00	-31.04	11.96	3	Horizontal	341	1.35	-	31.00	37.70	8.10	33.84		
AV	8.8177G	31.32	54.00	-22.68	12.03	3	Horizontal	341	1.35	-	19.29	37.74	8.11	33.82		
PK	12.2476G	42.42	74.00	-31.58	15.22	3	Horizontal	299	1.10	-	27.20	38.90	9.51	33.19		
AV	12.26137G	34.31	54.00	-19.69	15.25	3	Horizontal	299	1.10	-	19.06	38.90	9.52	33.17		
PK	17.26014G	40.84	74.00	-33.16	17.09	3	Horizontal	156	3.00	-	23.75	38.70	11.40	33.01		
AV	17.2537G	29.93	54.00	-24.07	17.10	3	Horizontal	156	3.00	-	12.83	38.70	11.40	33.00		