



FCC PART 15E TEST REPORT No.24T04Z100472-010

for

Guangdong OPPO Mobile Telecommunications Corp., Ltd.

Mobile Phone

CPH2625

FCC ID:R9C-OP23262

with

Hardware Version: 11

Software Version: ColorOS 14.1

Issued Date: 2024-05-11

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of CTTL.

Test Laboratory:

CTTL-Telecommunication Technology Labs, CAICT

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
24T04Z100472-010	Rev.0	1st edition	2024-04-24
24T04Z100472-010	Rev.1	Add the conducted result description on page9.	2024-05-11

Note: the latest revision of the test report supersedes all previous version.

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1. Test Laboratory

1.1. Introduction & Accreditation

Telecommunication Technology Labs, CAICT is an ISO/IEC 17025:2017 accredited test laboratory under American Association for Laboratory Accreditation (A2LA) with lab code 7049.01, and is also an FCC accredited test laboratory (CN1349), and ISED accredited test laboratory (CAB identifier:CN0066). The detail accreditation scope can be found on A2LA website.

1.2. Testing Location

Conducted testing Location: CTTL(huayuan North Road)

Address: No. 52, Huayuan North Road, Haidian District, Beijing,
P. R. China100191

Radiated testing Location: CTTL(huayuan North Road)

Address: No. 52, Huayuan North Road, Haidian District, Beijing,
100191, P. R. China

1.3. TestingEnvironment

Normal Temperature: 15-35°C

Relative Humidity: 20-75%

1.4. Project date

Testing Start Date: 2024-03-19

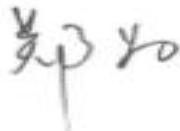
Testing End Date: 2024-04-24

1.5. Signature



Yao Xingyu

(Prepared this test report)



Zheng Wei

(Reviewed this test report)



Pang Shuai

(Approved this test report)



2. Client Information

2.1. Applicant Information

Company Name: Guangdong OPPO Mobile Telecommunications Corp., Ltd.
Address: NO.18 HaiBin Road, Wusha Village, Chang'an Town, DongGuan City,
Guangdong Province, P.R. China
City: DongGuan
Postal Code: /
Country: China
Telephone: (86)76986076999
Fax: /

2.2. Manufacturer Information

Company Name: Guangdong OPPO Mobile Telecommunications Corp., Ltd.
Address: NO.18 HaiBin Road, Wusha Village, Chang'an Town, DongGuan City,
Guangdong Province, P.R. China
City: DongGuan
Postal Code: /
Country: China
Telephone: (86)76986076999
Fax: /

3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Description	Mobile Phone
Model name	CPH2625
FCC ID	R9C-OP23262
WLAN Frequency Band	ISM Band: 5725MHz~5850MHz
Type of modulation	OFDM
Nominal Voltage	3.91V
Extreme High Voltage	4.55V
Extreme Low Voltage	3.4V

3.2. Internal Identification of EUT used during the test

EUT ID*	IMEI	HW Version	SW Version	Date of receipt
UT05a	869029070043731/ 869029070043723	11	ColorOS 14.1	2024-03-18
UT09a	869029070036479	11	ColorOS 14.1	2024-04-02

*EUT ID: is used to identify the test sample in the lab internally.

UT05a is used for Conduction test, UT09a is used for Radiation test.

3.3. Internal Identification of AE used during the test

AE ID*	Description	Note	Manufacturer
AE1-1	Battery	BLPA59	Sunwoda
AE1-2	Battery	BLPA59	TWS Technology(GuangZhou) Limited
AE2-1	Charger	VCB80AUH	Huizhou Golden Lake Industrial Co., Ltd
AE2-2	Charger	VCB80AUH	Dongguan Aohai Technolgy Co., Ltd.
AE3	USB cable	/	/
AE4-1	Charger	VCB80AEH	Aohai
AE4-2	Charger	VCB80AEH	GoldenLake
AE4-3	Charger	VCB80ATH	Aohai
AE4-4	Charger	VCB80AAH	Aohai
AE4-5	Charger	VCB80AYH	Aohai
AE4-6	Charger	VCB80AUH	Aohai
AE4-7	Charger	VCB80AUH	GoldenLake

*AE ID: is used to identify the test sample in the lab internally.

3.4. General Description

Equipment Under Test (EUT) is a model of Mobile Phone with integrated antenna. It consists of normal options: Battery and Charger.

Manual and specifications of the EUT were provided to fulfil the test.

Samples undergoing test were selected by the Client.

4. Reference Documents

4.1. Documents supplied by applicant

EUT feature information is supplied by the applicant or manufacturer, which is the basis of testing.

4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

	FCC CFR 47, Part 15, Subpart C and E:	
FCC Part15	15.205 Restricted bands of operation; 15.209 Radiated emission limits, general requirements; 15.407 General technical requirements	2021
ANSI C63.10	Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	2013
UNII: KDB 789033 D02	General U-NII Test Procedures New Rules v02r01	2017-12

5. Laboratory Environment

Conducted RF performance testing is performed in shielding room.

EMC performance testing is performed in Semi-anechoic chamber.

6. Test Results

6.1. Summary of Test Results

SUMMARY OF MEASUREMENT RESULTS	Sub-clause of Part15E	Sub-clause of IC	Verdict
Maximum Peak Output Power	15.407 (a)	/	P
Peak Power Spectral Density	15.407 (a)	/	P
Occupied 6dB Bandwidth	15.407 (e)	/	P
Band Edges Compliance - Conducted& Radiated	15.407 (b)	/	P
Transmitter Spurious Emission - Radiated	15.407, 15.205, 15.209	/	P
AC Powerline Conducted Emission	15.107, 15.207	/	P

Please refer to **ANNEX A** for detail.

Terms used in Verdict column

P	Pass, The EUT complies with the essential requirements in the standard.
NM	Not measured, The test was not measured by CTTL
NA	Not Applicable, The test was not applicable
F	Fail, The EUT does not comply with the essential requirements in the standard

6.2. **For conducted result :**

For 802.11ax single RU modes, Both of the 20M、40M and 80M are measured, as the PSD of 20M is the worse case, so the results of 20M are reflected in the report. the whole testing has reported only 802.11ax- HE20.

6.3. Statements

CTTL has evaluated the test cases as listed in section 6.1 of this report for the EUT specified in section 3 according to the standards or reference documents listed in section 4.

This report only deals with the WLAN function among the features described in section 3.

6.4. Test Conditions

For this report, all the test cases are tested under normal temperature and normal voltage, and also under norm humidity, the specific condition is shown as follows:

Temperature	26°C
Voltage	3.91V
Humidity	44%

7. Test Facilities Utilized

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	Vector Signal Analyzer	FSQ40	200089	Rohde & Schwarz	1 year	2024-07-04
2	Vector Signal Analyzer	FSW67	104051	Rohde & Schwarz	1 year	2025-04-01
3	Test Receiver	ESCI	100344	R&S	2 years	2025-02-20
4	LISN	ENV216	101200	R&S	1 year	2024-06-04
5	Attenuator	10dB/2W	/	Rosenberger	/	/
6	Shielding Room	S81	/	ETS-Lindgren	/	/

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	Test Receiver	ESW44	103144	R&S	1 year	2024-11-26
2	EMI Antenna	VULB 9163	01223	SCHWARZBECK	2 years	2024-07-18
3	EMI Antenna	3115	6914	ETS-Lindgren	1 year	2024-05-07
4	EMI Antenna	3116	2661	ETS-Lindgren	2 years	2025-01-30

8. Measurement Uncertainty

8.1. Transmitter Output Power

Measurement Uncertainty: 0.387dB,k=1.96

8.2. Peak Power Spectral Density

Measurement Uncertainty: 0.705dB,k=1.96

8.3. 6dB Emission Bandwidth

Measurement Uncertainty: 60.80Hz,k=1.96

8.4. Band Edges Compliance

Measurement Uncertainty : 0.62dB,k=1.96

8.5. Spurious Emissions

Conducted (k=1.96)

Frequency Range	Uncertainty(dB)
$30\text{MHz} \leq f \leq 2\text{GHz}$	1.22
$2\text{GHz} \leq f \leq 3.6\text{GHz}$	1.22
$3.6\text{GHz} \leq f \leq 8\text{GHz}$	1.22
$8\text{GHz} \leq f \leq 12.75\text{GHz}$	1.51
$12.75\text{GHz} \leq f \leq 26\text{GHz}$	1.51
$26\text{GHz} \leq f \leq 40\text{GHz}$	1.59

Radiated (k=2)

Frequency Range	Uncertainty(dB)
9kHz-30MHz	4.92
$30\text{MHz} \leq f \leq 1\text{GHz}$	4.72
$1\text{GHz} \leq f \leq 18\text{GHz}$	4.84
$18\text{GHz} \leq f \leq 40\text{GHz}$	5.12

8.6. AC Power-line Conducted Emission

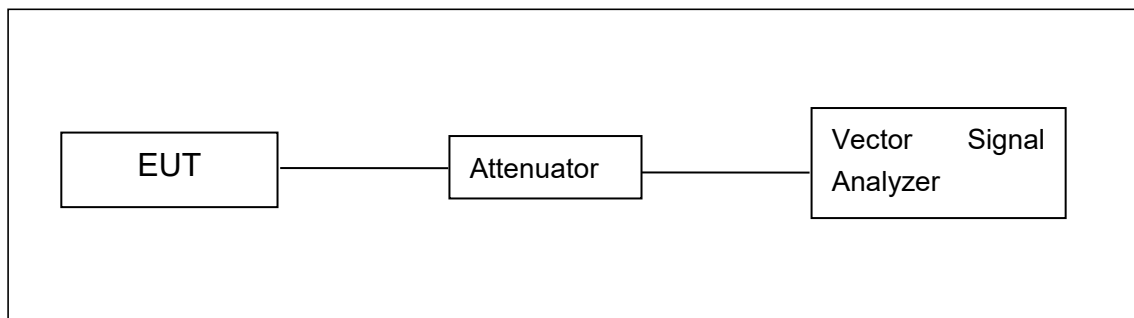
Measurement Uncertainty : 3.08dB,k=2

ANNEX A: MEASUREMENT RESULTS

A.1. Measurement Method

A.1.1. Conducted Measurements

- 1). Connect the EUT to the test system correctly.
- 2). Set the EUT to the required work mode.
- 3). Set the EUT to the required channel.
- 4). Set the spectrum analyzer to start measurement.
- 5). Record the values. Vector Signal Analyzer

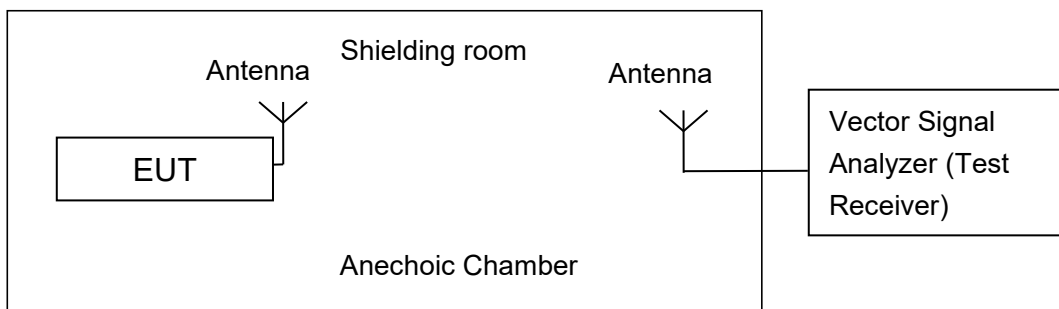


A.1.2. Radiated Emission Measurements

In the case of radiated emission, the used settings are as follows,

Sweep frequency from 30 MHz to 1GHz, RBW = 100 kHz, VBW = 300 kHz;

Sweep frequency from 1 GHz to 26GHz, RBW = 1MHz, VBW = 3MHz;



The measurement is made according to ANSI C63.10.

The radiated emission test is performed in semi-anechoic chamber. The distance from the EUT to the reference point of measurement antenna is 3m. The test is carried out on both vertical and horizontal polarization and only maximization result of both polarizations is kept. During the test, the turntable is rotated 360° and the measurement antenna is moved from 1m to 4m to get the maximization result.

A.2. Maximum Peak Output Power

Measurement Limit and Method:

Standard	Limit (dBm)
FCC CRF Part 15.407(a)	< 30

Set span to encompass the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal.

Set RBW = 1 MHz.

Set VBW ≥ 3 MHz.

Number of points in sweep ≥ 2 × span / RBW.

Sweep time = auto.

Detector = power averaging (rms)

Trace average at least 100 traces in power averaging (rms) mode; however, the number of traces to be averaged shall be increased above 100 as needed to ensure that the average accurately represents the true average over the on and off periods of the transmitter.

Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument's band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at 1 MHz intervals extending across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal. Add 10 log (1/x), where x is the duty cycle

A.2.1 Antenna Gain

Antenna gain is ANT8:1.6dBi/ANT9:1dBi, and the value is supplied by the applicant or manufacturer.

A.2.2. Maximum Average Output Power-Conducted

EUT ID: UT05a

Measurement Results:

MIMO

Mode	Data Rate (Index)	Conducted power								
		5745MHz(Ch149)			5785MHz(Ch157)			5825MHz(Ch165)		
		Ant8	Ant9	MIMO	Ant8	Ant9	MIMO	Ant8	Ant9	MIMO
802.11a	6Mbps	14.28	14.59	17.45	14.79	15.17	17.99	14.93	15.29	18.12
802.11n-HT20	MCS0	14.34	14.39	17.38	14.66	14.93	17.81	14.92	14.96	17.95
802.11ac-VHT20	MCS0	14.06	14.35	17.22	14.76	15.07	17.93	14.68	14.97	17.84
802.11ax-HE20	MCS0	14.19	14.61	17.42	14.77	14.95	17.87	14.89	15.13	18.02

Mode	Data Rate (Index)	Conducted power					
		5755MHz(Ch151)			5795MHz(Ch159)		
		Ant8	Ant9	MIMO	Ant8	Ant9	MIMO
802.11n-HT40	MCS0	14.17	14.36	17.28	14.66	14.78	17.73
802.11ac-VHT40	MCS0	14.33	14.41	17.38	14.61	14.82	17.73
802.11ax-HE40	MCS0	14.29	14.58	17.45	14.54	15.09	17.83

Mode	Data Rate (Index)	Conducted power		
		5755MHz(Ch155)		
		Ant8	Ant9	MIMO
802.11ac-VHT80	MCS0	14.42	14.47	17.46
802.11ax-HE80	MCS0	14.47	14.55	17.52

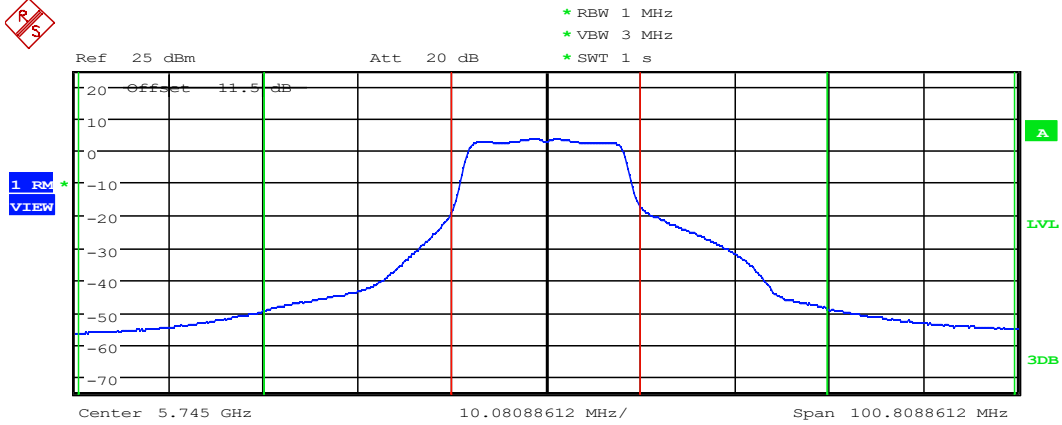
RU mode:

Mode	RU index	Conducted power								
		5745MHz(Ch149)			5785MHz(Ch157)			5825MHz(Ch165)		
		Ant8	Ant9	MIMO	Ant8	Ant9	MIMO	Ant8	Ant9	MIMO
802.11ax-HE20	RU26 left	9.63	9.75	12.71	9.57	9.92	12.76	9.34	9.99	12.69
	RU26 right	8.49	9.82	12.22	9.16	9.97	12.60	10.21	10.01	13.13
	RU52 left	12.20	12.53	15.38	12.14	12.59	15.38	12.08	12.73	15.43
	RU52 right	11.28	12.42	14.90	11.71	12.58	15.18	12.81	12.72	15.78
	RU106 left	14.51	14.79	17.66	14.71	14.94	17.83	14.81	15.04	17.93
	RU106 right	14.01	14.83	17.45	14.23	14.76	17.51	15.30	15.01	18.16

Duty Cycle

Mode	802.11a	802.11n20	802.11n40	802.11ac20	802.11ac40	802.11ac80
Duty Cycle	100%	100%	100%	100%	100%	100%

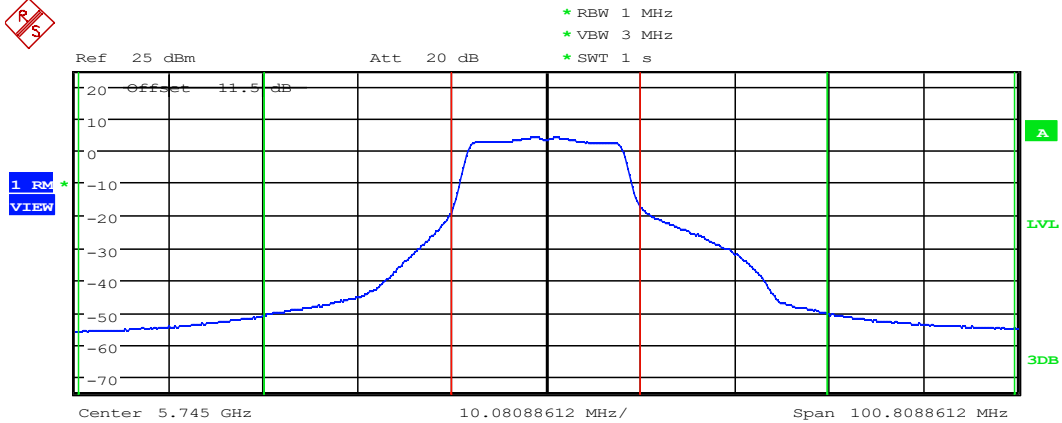
Mode	802.11ax-20	802.11ax-40	802.11ax-80	802.11ax-20 RU26	802.11ax-20 RU52	802.11ax-20 RU106
Duty Cycle	100%	100%	100%	86%	76%	61%



Tx Channel		WLAN 802.11A	
Bandwidth	20 MHz	Power	14.28 dBm
Adjacent Channel		Lower	-33.05 dB
Bandwidth	20 MHz	Upper	-28.26 dB
Spacing	20 MHz		
Alternate Channel		Lower	-55.70 dB
Bandwidth	20 MHz	Upper	-54.67 dB
Spacing	40 MHz		

Date: 24.APR.2024 17:24:01

11a CH149 ANT8



Tx Channel		WLAN 802.11A	
Bandwidth	20 MHz	Power	14.59 dBm
Adjacent Channel		Lower	-33.34 dB
Bandwidth	20 MHz	Upper	-28.71 dB
Spacing	20 MHz		
Alternate Channel		Lower	-56.44 dB
Bandwidth	20 MHz	Upper	-55.74 dB
Spacing	40 MHz		

Date: 24.APR.2024 18:37:21

11a CH149 ANT9

Conclusion: PASS

A.3. Peak Power Spectral Density

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.407(a)	< 30 dBm/500 kHz

Set span to encompass the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal.

Set RBW = 500 kHz.

Set VBW ≥ 3 MHz.

Number of points in sweep ≥ 2 × span / RBW.

Sweep time = auto.

Detector = power averaging (rms)

Trace average at least 100 traces in power averaging (rms) mode; however, the number of traces to be averaged shall be increased above 100 as needed to ensure that the average accurately represents the true average over the on and off periods of the transmitter. Use the peak search function on the instrument to find the peak of the spectrum and record its value. Add 10 log (1/x), where x is the duty cycle.

Measurement Uncertainty:

Measurement Uncertainty	0.75dB
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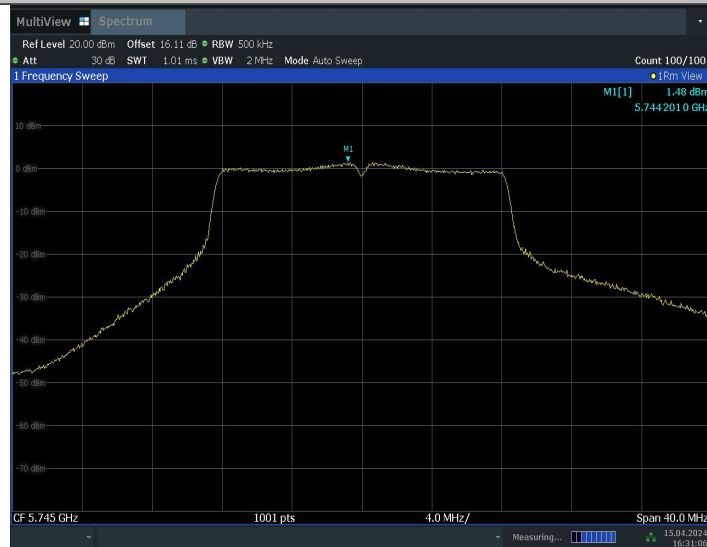
EUT ID: UT05a

Measurement Results:

TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant8	5745	1.48	≤30.00	PASS
	Ant9	5745	1.16	≤30.00	PASS
	total	5745	4.33	≤30.00	PASS
	Ant8	5785	1.51	≤30.00	PASS
	Ant9	5785	1.22	≤30.00	PASS
	total	5785	4.38	≤30.00	PASS
	Ant8	5825	1.45	≤30.00	PASS
	Ant9	5825	1.61	≤30.00	PASS
	total	5825	4.54	≤30.00	PASS
11AX20MIMO	Ant8	5745	1.24	≤30.00	PASS
	Ant9	5745	0.85	≤30.00	PASS
	total	5745	4.06	≤30.00	PASS
	Ant8	5785	1.09	≤30.00	PASS
	Ant9	5785	0.88	≤30.00	PASS
	total	5785	4.00	≤30.00	PASS
	Ant8	5825	1.26	≤30.00	PASS
	Ant9	5825	1.19	≤30.00	PASS
	total	5825	4.24	≤30.00	PASS
11AX40MIMO	Ant8	5755	-1.31	≤30.00	PASS
	Ant9	5755	-1.97	≤30.00	PASS

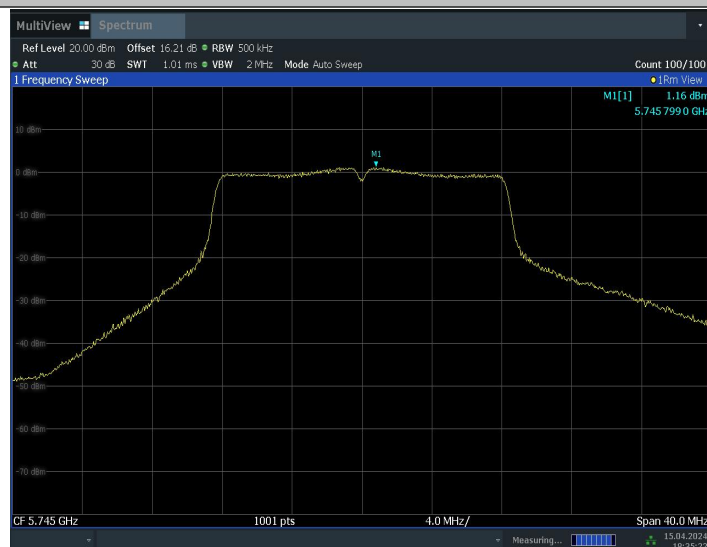
	total	5755	1.38	≤ 30.00	PASS
	Ant8	5795	-1.70	≤ 30.00	PASS
	Ant9	5795	-2.17	≤ 30.00	PASS
	total	5795	1.08	≤ 30.00	PASS
11AX80MIMO	Ant8	5775	-6.22	≤ 30.00	PASS
	Ant9	5775	-6.96	≤ 30.00	PASS
	total	5775	-3.56	≤ 30.00	PASS

11A_Ant8_5745



16:31:06 15.04.2024

11A_Ant9_5745



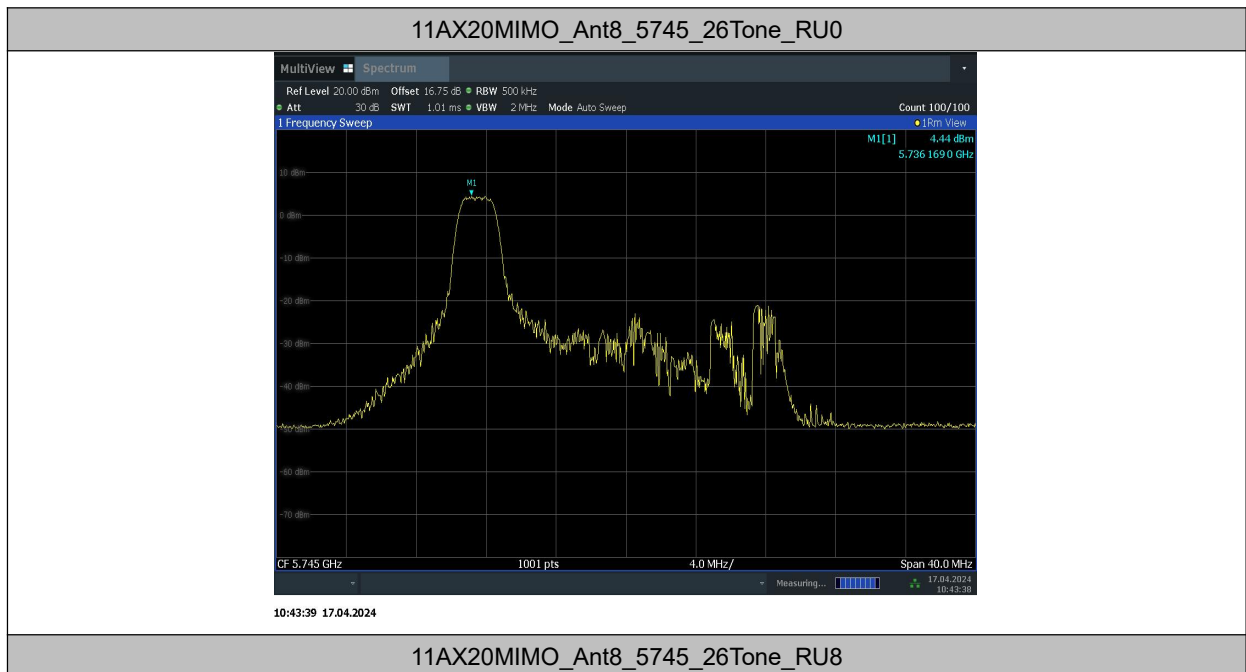
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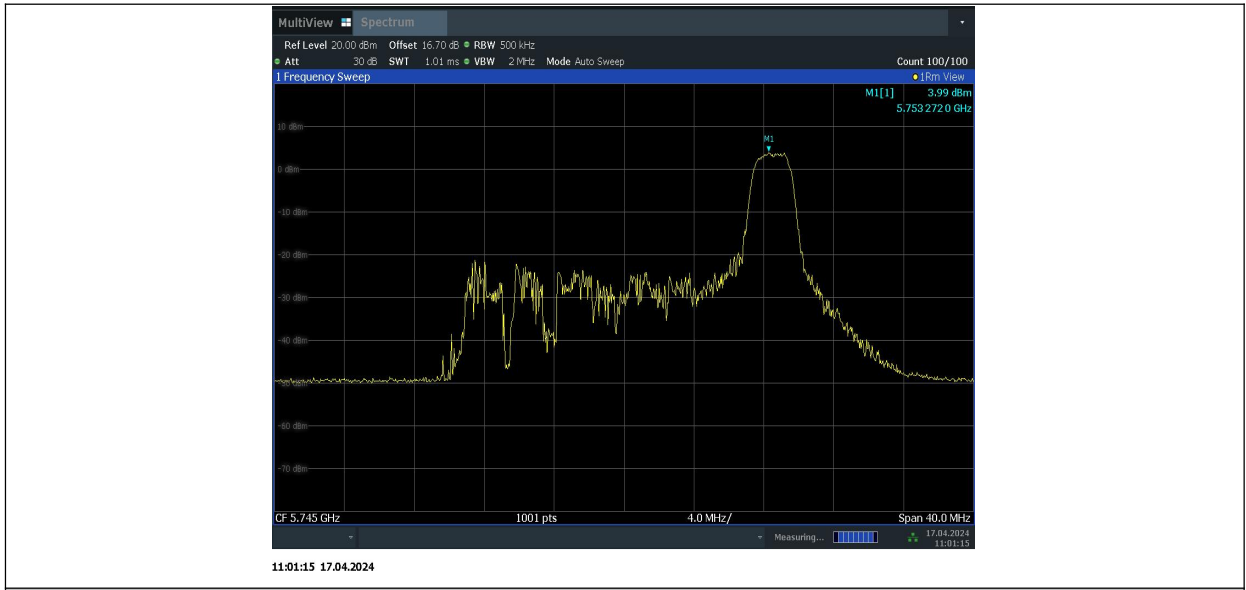
11ax RU

Test Mode	Antenna	Frequency[MHz]	Ru Size	Ru Index	Result [dBm/MHz]	Limit [dBm/MHz]	Verdict
	Ant8	5745	26Tone	RU0	4.44	≤30.00	PASS
				RU8	3.99	≤30.00	PASS
			52Tone	RU37	4.03	≤30.00	PASS
				RU40	4.02	≤30.00	PASS
			106Tone	RU53	4.29	≤30.00	PASS
				RU54	3.88	≤30.00	PASS
	Ant9	5745	26Tone	RU0	4.16	≤30.00	PASS
				RU8	4.57	≤30.00	PASS
			52Tone	RU37	4.47	≤30.00	PASS
				RU40	4.69	≤30.00	PASS
			106Tone	RU53	4.16	≤30.00	PASS
				RU54	4.54	≤30.00	PASS
	total	5745	26Tone	RU0	7.31	≤30.00	PASS
				RU8	7.30	≤30.00	PASS
			52Tone	RU37	7.27	≤30.00	PASS
				RU40	7.38	≤30.00	PASS
			106Tone	RU53	7.24	≤30.00	PASS
				RU54	7.23	≤30.00	PASS
	Ant8	5785	26Tone	RU0	3.27	≤30.00	PASS
				RU8	3.26	≤30.00	PASS
			52Tone	RU37	3.41	≤30.00	PASS
				RU40	3.19	≤30.00	PASS
			106Tone	RU53	3.29	≤30.00	PASS
				RU54	3.02	≤30.00	PASS
Ant9	5785	26Tone	RU0	4.07	≤30.00	PASS	
			RU8	2.89	≤30.00	PASS	
		52Tone	RU37	3.76	≤30.00	PASS	
			RU40	3.24	≤30.00	PASS	
		106Tone	RU53	3.69	≤30.00	PASS	
			RU54	3.46	≤30.00	PASS	
total	5785	26Tone	RU0	6.70	≤30.00	PASS	
			RU8	6.09	≤30.00	PASS	
		52Tone	RU37	6.60	≤30.00	PASS	
			RU40	6.23	≤30.00	PASS	
		106Tone	RU53	6.50	≤30.00	PASS	
			RU54	6.26	≤30.00	PASS	
Ant8	5825	26Tone	RU0	3.35	≤30.00	PASS	
			RU8	3.48	≤30.00	PASS	
		52Tone	RU37	3.19	≤30.00	PASS	
			RU40	3.35	≤30.00	PASS	

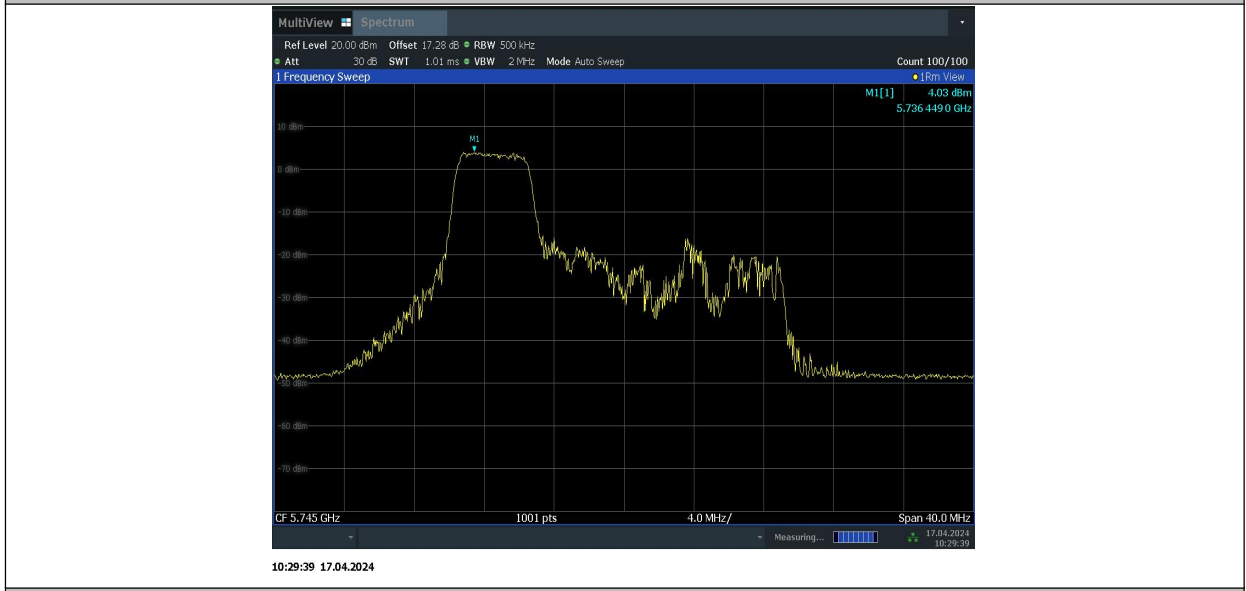
	Ant9	5825	106Tone	RU53	3.36	≤30.00	PASS
				RU54	3.30	≤30.00	PASS
			26Tone	RU0	3.38	≤30.00	PASS
				RU8	2.59	≤30.00	PASS
			52Tone	RU37	3.22	≤30.00	PASS
				RU40	2.87	≤30.00	PASS
	106Tone	RU53	3.41	≤30.00	PASS		
		RU54	2.90	≤30.00	PASS		
	total	5825	26Tone	RU0	6.38	≤30.00	PASS
				RU8	6.07	≤30.00	PASS
			52Tone	RU37	6.22	≤30.00	PASS
				RU40	6.13	≤30.00	PASS
106Tone			RU53	6.40	≤30.00	PASS	
			RU54	6.11	≤30.00	PASS	

Test Graphs

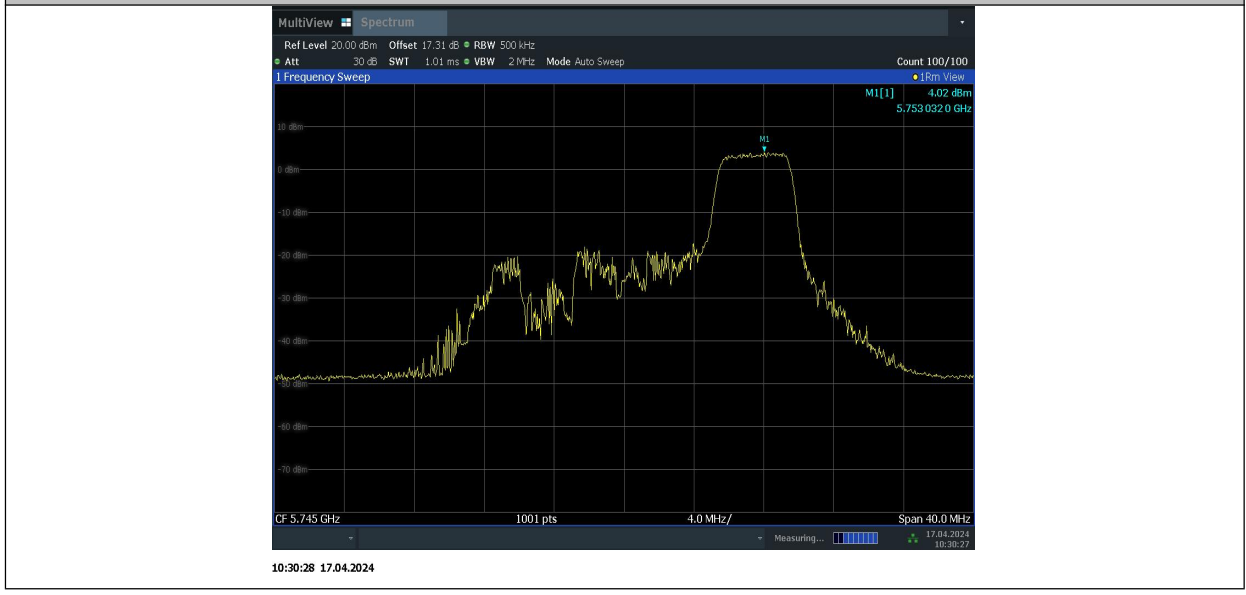




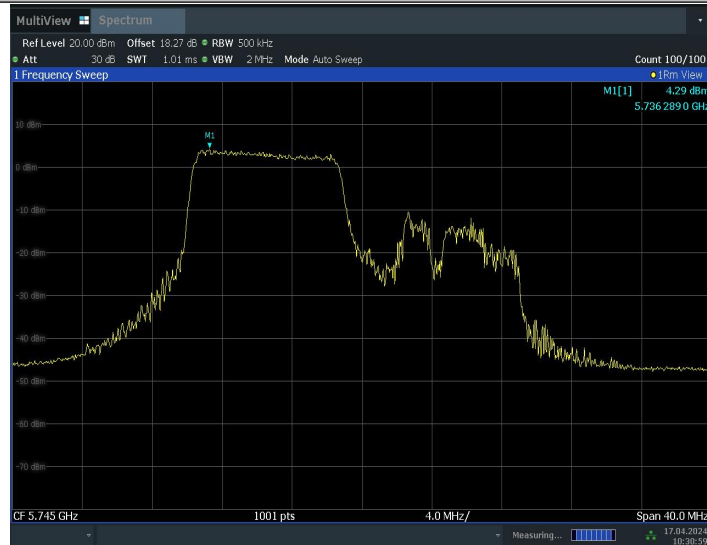
11AX20MIMO_Ant8_5745_52Tone_RU37



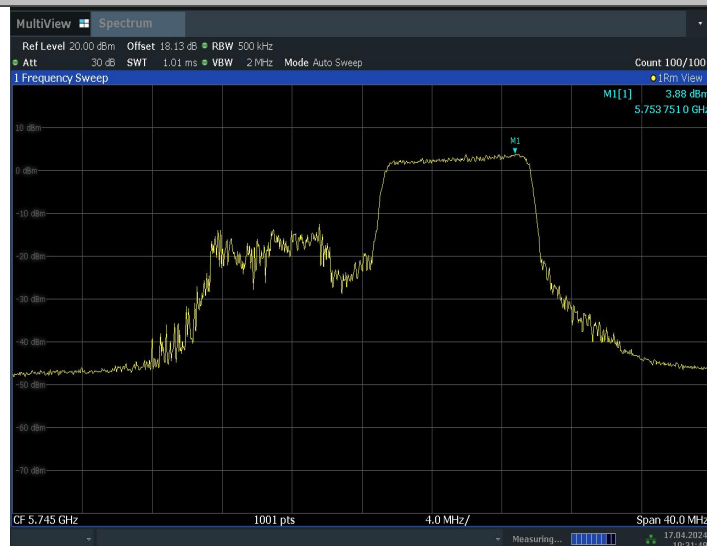
11AX20MIMO_Ant8_5745_52Tone_RU40



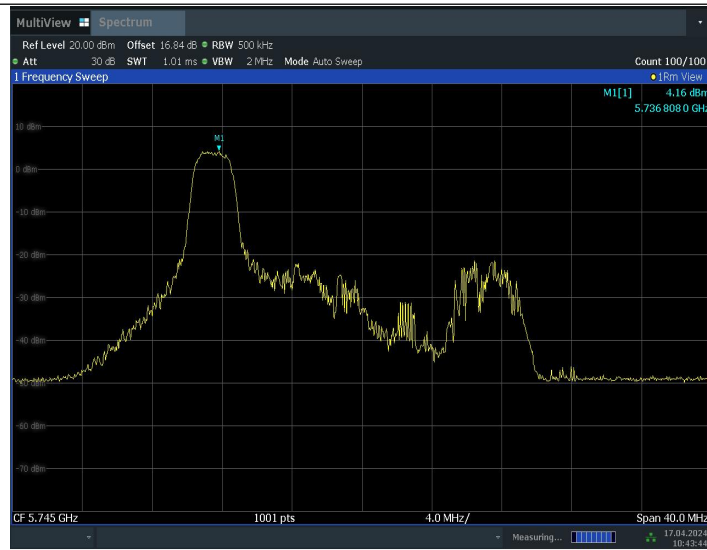
11AX20MIMO_Ant8_5745_106Tone_RU53



11AX20MIMO_Ant8_5745_106Tone_RU54

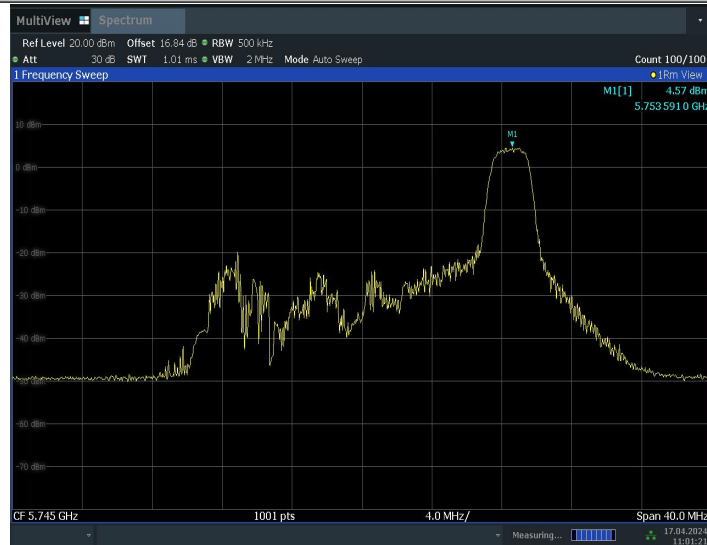


11AX20MIMO_Ant9_5745_26Tone_RU0



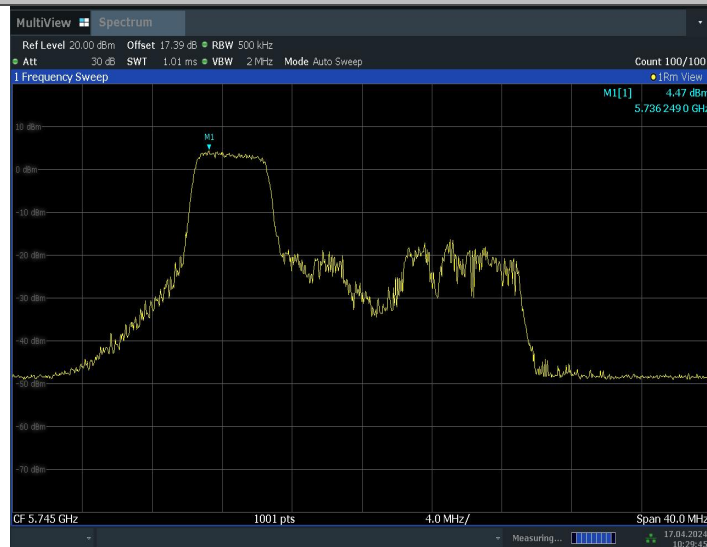
10:43:45 17.04.2024

11AX20MIMO_Ant9_5745_26Tone_RU8



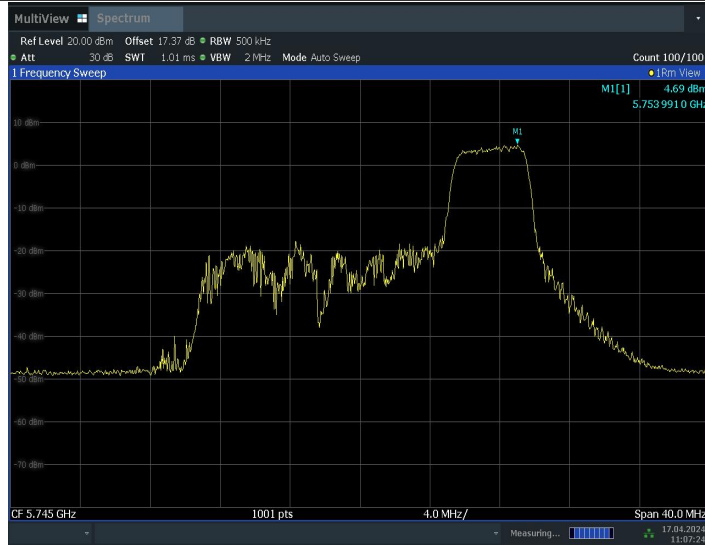
11:01:21 17.04.2024

11AX20MIMO_Ant9_5745_52Tone_RU37



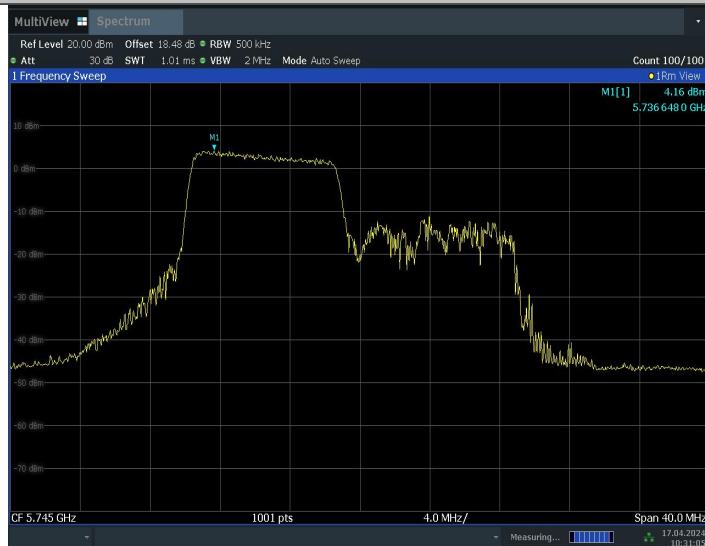
10:29:45 17.04.2024

11AX20MIMO_Ant9_5745_52Tone_RU40



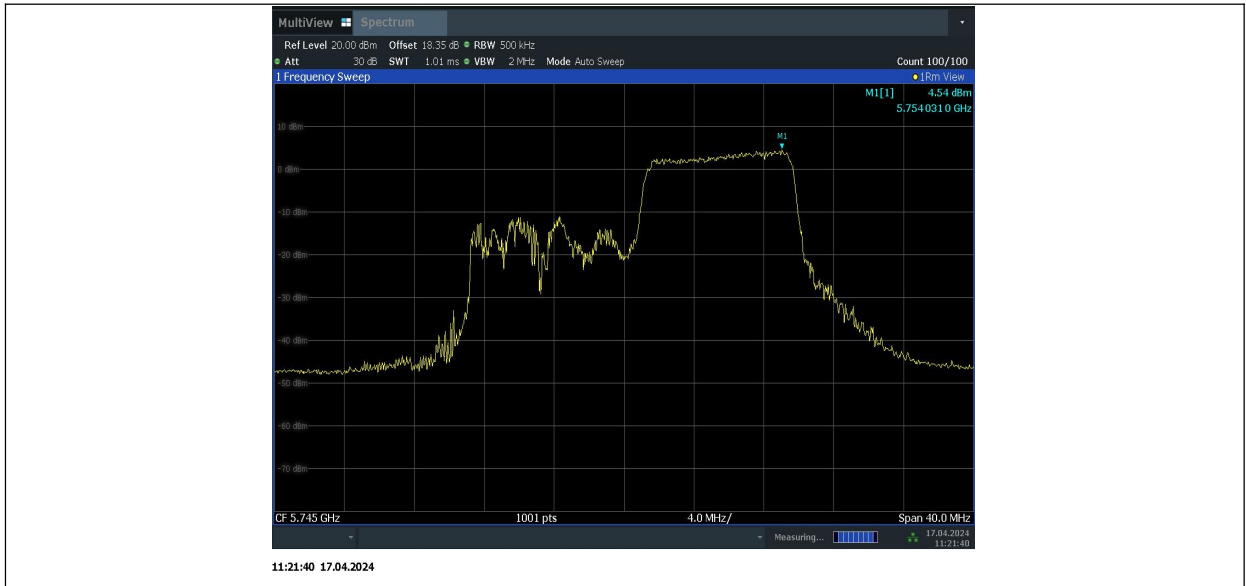
11:07:24 17.04.2024

11AX20MIMO_Ant9_5745_106Tone_RU53



10:31:05 17.04.2024

11AX20MIMO_Ant9_5745_106Tone_RU54



Conclusion: PASS

A.4. 6dB Emission Bandwidth

Measurement Limit:

Standard	Limit (kHz)
FCC 47 CFR Part 15.407 (e)	≥ 500

Set RBW = 100 kHz.

Set the video bandwidth (VBW) ≥ 3 × RBW.

Detector = Peak.

Trace mode = max hold.

Sweep = auto couple.

Allow the trace to stabilize.

Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Measurement Uncertainty:

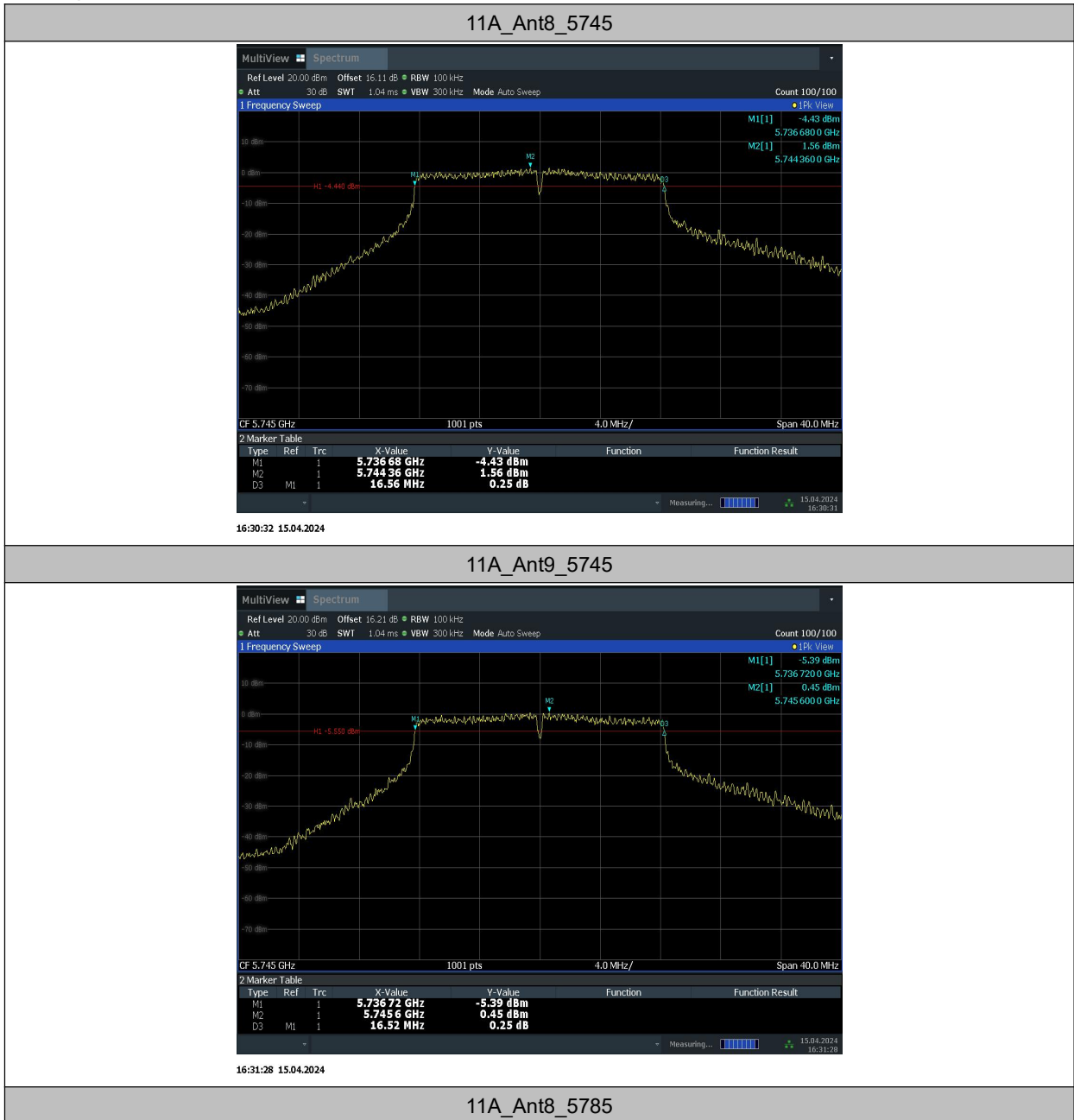
Measurement Uncertainty	60.80Hz
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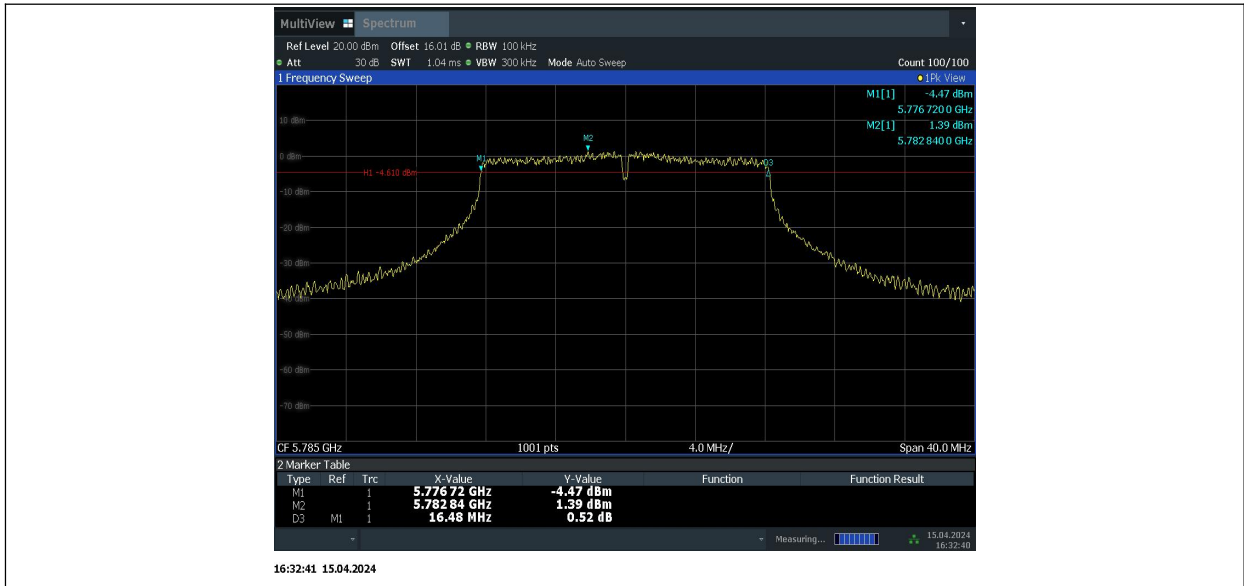
EUT ID: UT05a

Measurement Result:

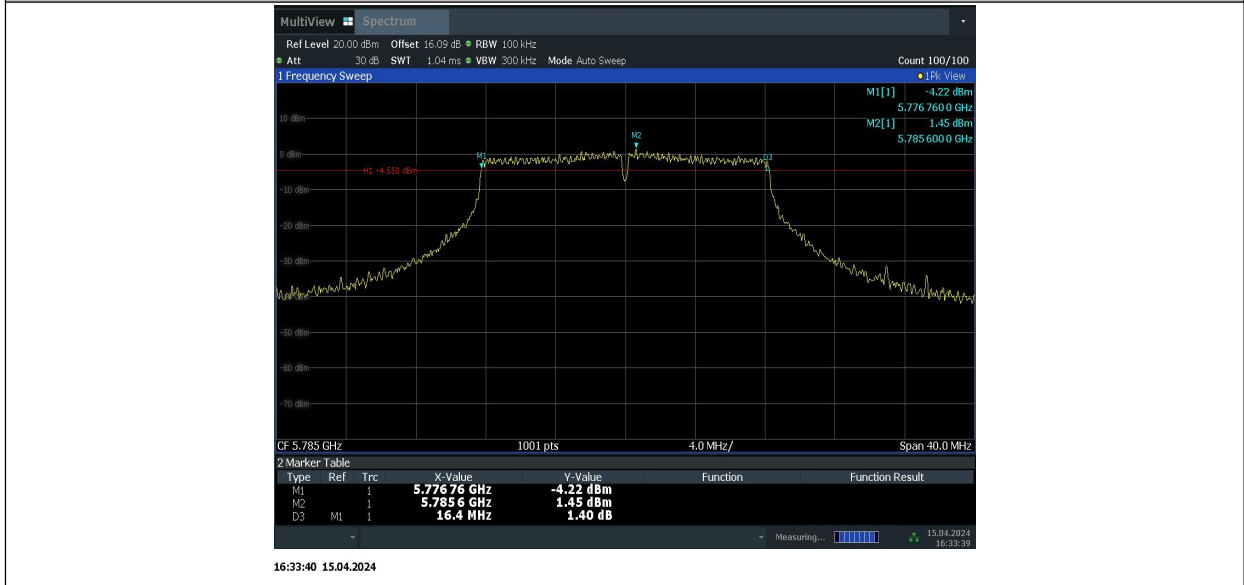
TestMode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant2	5745	16.56	5736.68	5753.24	0.5	PASS
	Ant3	5745	16.52	5736.72	5753.24	0.5	PASS
	Ant2	5785	16.48	5776.72	5793.20	0.5	PASS
	Ant3	5785	16.40	5776.76	5793.16	0.5	PASS
	Ant2	5825	16.48	5816.76	5833.24	0.5	PASS
	Ant3	5825	16.48	5816.76	5833.24	0.5	PASS
11AX20MIMO	Ant2	5745	19.08	5735.44	5754.52	0.5	PASS
	Ant3	5745	19.00	5735.48	5754.48	0.5	PASS
	Ant2	5785	19.12	5775.44	5794.56	0.5	PASS
	Ant3	5785	19.12	5775.48	5794.60	0.5	PASS
	Ant2	5825	19.12	5815.44	5834.56	0.5	PASS
	Ant3	5825	19.12	5815.44	5834.56	0.5	PASS
11AX40MIMO	Ant2	5755	37.68	5736.12	5773.80	0.5	PASS
	Ant3	5755	37.20	5736.12	5773.32	0.5	PASS
	Ant2	5795	37.60	5776.04	5813.64	0.5	PASS
	Ant3	5795	37.04	5776.20	5813.24	0.5	PASS
11AX80MIMO	Ant2	5775	78.24	5735.80	5814.04	0.5	PASS
	Ant3	5775	78.08	5735.96	5814.04	0.5	PASS

Test graphs as below:





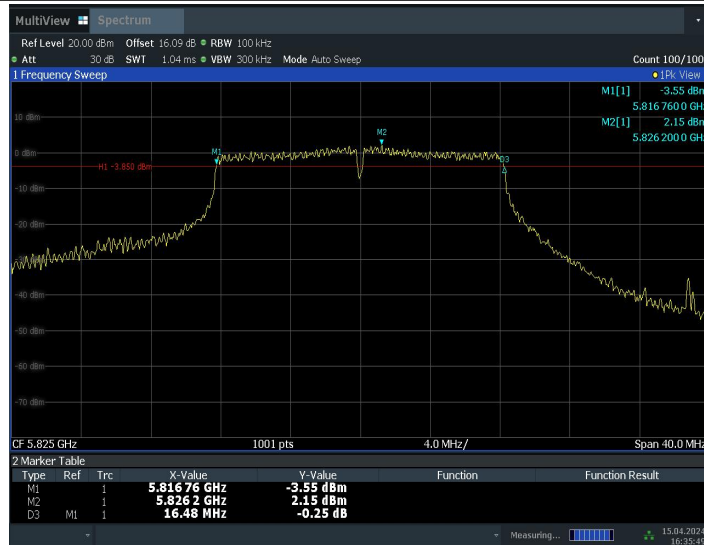
11A_Ant9_5785



11A_Ant8_5825



11A_Ant9_5825



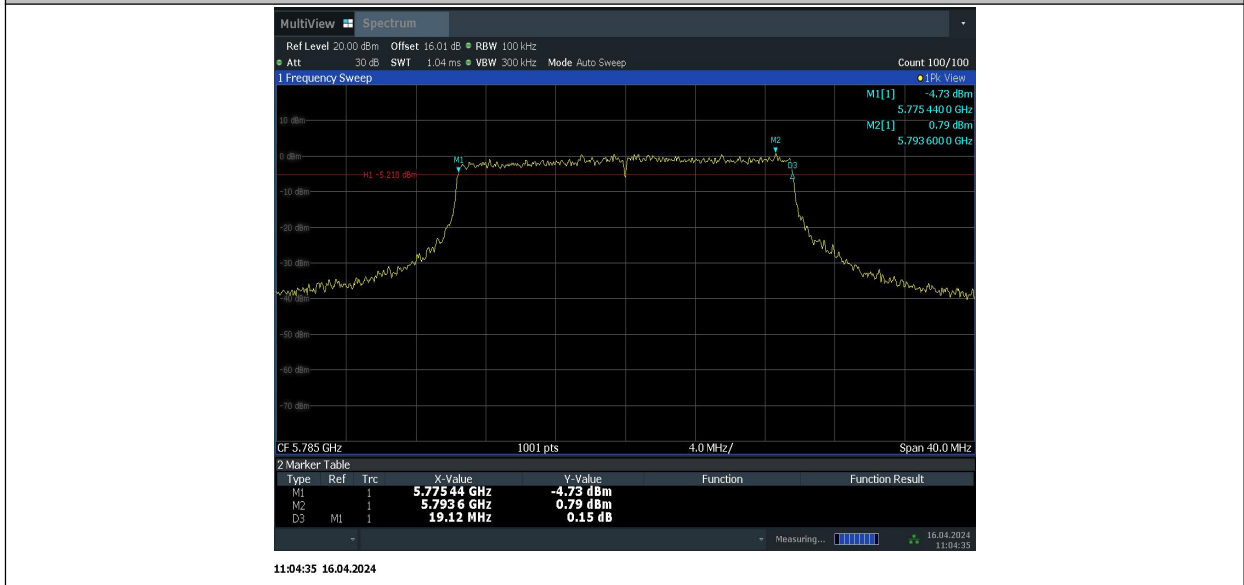
11AX20MIMO_Ant8_5745



11AX20MIMO_Ant9_5745



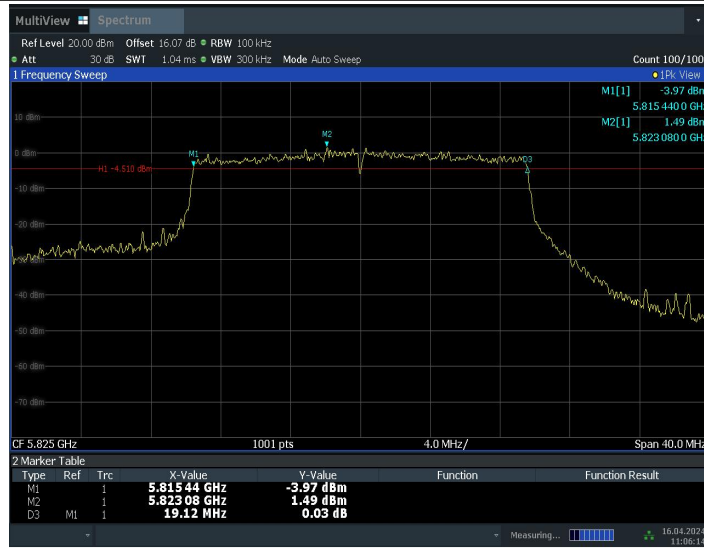
11AX20MIMO_Ant8_5785



11AX20MIMO_Ant9_5785



11AX20MIMO_Ant8_5825



11:06:15 16.04.2024

11AX20MIMO_Ant9_5825



11:07:00 16.04.2024

11AX40MIMO_Ant8_5755



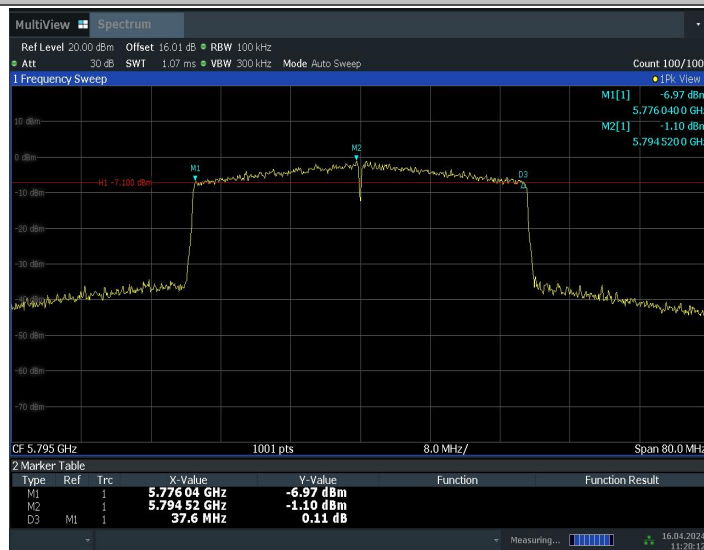
11:18:33 16.04.2024

11AX40MIMO_Ant9_5755



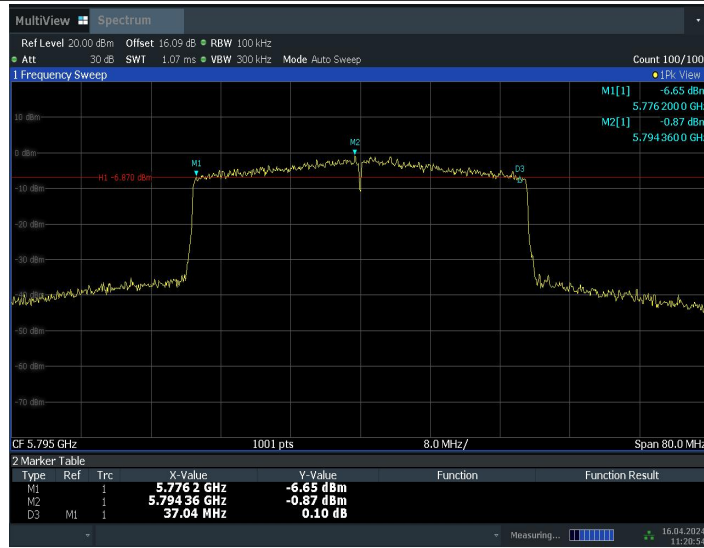
11:19:18 16.04.2024

11AX40MIMO_Ant8_5795



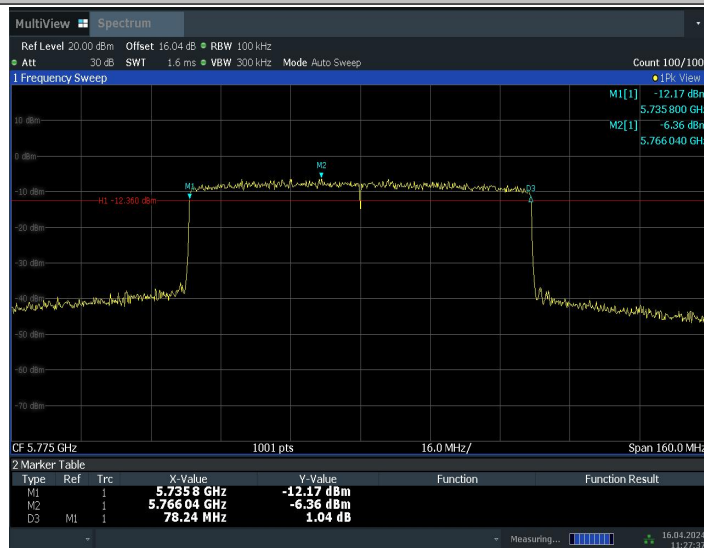
11:20:12 16.04.2024

11AX40MIMO_Ant9_5795



11:20:54 16.04.2024

11AX80MIMO_Ant8_5775



11:27:37 16.04.2024

11AX80MIMO_Ant9_5775



Conclusion: PASS

A.5. Transmitter Spurious Emission

A.5.1 Transmitter Spurious Emission - Radiated

Measurement Limit:

Standard	Frequency (MHz)	Limit (dBm/MHz)
FCC 47 CFR Part 15.407	5725MHz~5850MHz	< -27

The measurement is made according to ANSI C63.10 .

In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

Limit in restricted band:

Frequency of emission (MHz)	Field strength (uV/m)	Field strength (dBµV/m)	Measurement distance(m)
30-88	100	40.0	3
88-216	150	43.5	3
216-960	200	46.0	3
Above 960	500	54.0	3

Measurement Results:

Note:

A "reference path loss" is established and the A_{Rpl} is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss.

P_{Mea} is the field strength recorded from the instrument.

Conclusion: PASS

Average Results:
802.11a

Channel 149

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17994.500	44.33	-29.59	45.95	27.97	54.00	9.67	V
17948.800	44.21	-29.59	45.95	27.85	54.00	9.79	V
14493.800	37.75	-29.56	41.90	25.41	54.00	16.25	V
14472.900	37.50	-29.56	41.90	25.16	54.00	16.50	V
11890.000	35.09	-32.53	39.10	28.52	54.00	18.91	V
11876.900	34.94	-32.73	39.15	28.52	54.00	19.06	V

Channel 157

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17975.800	44.32	-29.59	45.95	27.96	54.00	9.68	V
17996.200	44.28	-29.59	45.95	27.92	54.00	9.72	V
14471.800	37.58	-29.56	41.90	25.24	54.00	16.42	V
14498.700	37.45	-29.56	41.90	25.11	54.00	16.55	V
11786.600	34.95	-32.09	39.20	27.84	54.00	19.05	H
11860.900	34.95	-32.73	39.15	28.53	54.00	19.05	V

Channel 165

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17995.000	44.35	-29.59	45.95	27.99	54.00	9.65	H
17955.500	44.34	-29.59	45.95	27.98	54.00	9.66	V
14498.700	37.42	-29.56	41.90	25.08	54.00	16.58	V
14487.700	37.33	-29.56	41.90	24.99	54.00	16.67	V
11865.300	35.08	-32.73	39.15	28.66	54.00	18.92	V
11875.200	35.02	-32.73	39.15	28.60	54.00	18.98	H

802.11n-HT20

Channel 149

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17979.100	44.65	-29.59	45.95	28.29	54.00	9.35	H
17995.600	44.48	-29.59	45.95	28.12	54.00	9.52	V
14497.600	37.72	-29.56	41.90	25.38	54.00	16.28	H
14490.500	37.52	-29.56	41.90	25.18	54.00	16.48	V
11914.800	35.13	-32.53	39.10	28.56	54.00	18.87	V
11821.900	35.08	-32.09	39.20	27.97	54.00	18.92	V

Channel 157

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17998.900	44.62	-29.59	45.95	28.26	54.00	9.38	V
17988.500	44.32	-29.59	45.95	27.96	54.00	9.68	V
14491.500	37.90	-29.56	41.90	25.56	54.00	16.10	H
14489.400	37.67	-29.56	41.90	25.33	54.00	16.33	H
11879.000	35.31	-32.73	39.15	28.89	54.00	18.69	V
11876.300	35.22	-32.73	39.15	28.80	54.00	18.78	H

Channel 165

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17997.800	44.48	-29.59	45.95	28.12	54.00	9.52	H
17981.300	44.41	-29.59	45.95	28.05	54.00	9.59	H
14475.000	37.88	-29.56	41.90	25.54	54.00	16.12	V
14486.000	37.63	-29.56	41.90	25.29	54.00	16.37	H
11867.500	35.26	-32.73	39.15	28.84	54.00	18.74	V
11807.000	35.09	-32.09	39.20	27.98	54.00	18.91	V

802.11n-HT40

Channel 151

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17979.700	44.47	-29.59	45.95	28.11	54.00	9.53	V
17946.100	44.36	-29.59	45.95	28.00	54.00	9.64	H
14488.200	37.80	-29.56	41.90	25.46	54.00	16.20	V
14483.900	37.63	-29.56	41.90	25.29	54.00	16.37	V
11873.500	35.19	-32.73	39.15	28.77	54.00	18.81	V
11875.800	35.16	-32.73	39.15	28.74	54.00	18.84	V

Channel 159

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17956.500	44.48	-29.59	45.95	28.12	54.00	9.52	V
17996.700	44.47	-29.59	45.95	28.11	54.00	9.53	V
14489.900	37.69	-29.56	41.90	25.35	54.00	16.31	V
14495.400	37.62	-29.56	41.90	25.28	54.00	16.38	V
11884.500	35.27	-32.53	39.10	28.70	54.00	18.73	H
11864.800	35.17	-32.73	39.15	28.75	54.00	18.83	V

802.11ac-HT20

Channel 149

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17994.500	44.80	-29.59	45.95	28.44	54.00	9.20	H
17963.700	44.75	-29.59	45.95	28.39	54.00	9.25	V
14491.000	37.94	-29.56	41.90	25.60	54.00	16.06	V
14489.900	37.75	-29.56	41.90	25.41	54.00	16.25	V
11853.800	35.02	-32.73	39.15	28.60	54.00	18.98	H
11874.100	34.94	-32.73	39.15	28.52	54.00	19.06	V

Channel 157

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17997.200	44.36	-29.59	45.95	28.00	54.00	9.64	H
17990.100	44.29	-29.59	45.95	27.93	54.00	9.71	V
14481.100	37.88	-29.56	41.90	25.54	54.00	16.12	V
14478.900	37.63	-29.56	41.90	25.29	54.00	16.37	V
11885.600	35.60	-32.53	39.10	29.03	54.00	18.40	V
11878.500	35.29	-32.73	39.15	28.87	54.00	18.71	V

Channel 165

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17997.800	44.59	-29.59	45.95	28.23	54.00	9.41	V
17994.500	44.47	-29.59	45.95	28.11	54.00	9.53	H
14489.900	37.98	-29.56	41.90	25.64	54.00	16.02	V
14489.400	37.69	-29.56	41.90	25.35	54.00	16.31	H
11881.200	35.28	-32.53	39.10	28.71	54.00	18.72	V
11803.100	35.13	-32.09	39.20	28.02	54.00	18.87	V

802.11ac-HT40

Channel 151

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17997.200	44.64	-29.59	45.95	28.28	54.00	9.36	H
17993.400	44.57	-29.59	45.95	28.21	54.00	9.43	V
14490.500	37.82	-29.56	41.90	25.48	54.00	16.18	V
14485.500	37.73	-29.56	41.90	25.39	54.00	16.27	H
11880.700	35.78	-32.73	39.15	29.36	54.00	18.22	H
11890.600	35.21	-32.53	39.10	28.64	54.00	18.79	V

Channel 159

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17997.200	44.60	-29.59	45.95	28.24	54.00	9.40	H
17987.300	44.39	-29.59	45.95	28.03	54.00	9.61	V
14488.200	37.48	-29.56	41.90	25.14	54.00	16.52	V
14470.600	37.44	-29.56	41.90	25.10	54.00	16.56	V
11858.100	35.36	-32.73	39.15	28.94	54.00	18.64	V
11908.200	35.26	-32.53	39.10	28.69	54.00	18.74	V

802.11ac-HT80

Channel 155

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17961.500	44.47	-29.59	45.95	28.11	54.00	9.53	H
17978.000	44.46	-29.59	45.95	28.10	54.00	9.54	V
14481.600	37.64	-29.56	41.90	25.30	54.00	16.36	V
14480.500	37.55	-29.56	41.90	25.21	54.00	16.45	H
11884.500	35.53	-32.53	39.10	28.96	54.00	18.47	H
11868.600	35.27	-32.73	39.15	28.85	54.00	18.73	V

802.11ax-HT20

Channel 149

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17966.500	44.34	-29.59	45.95	27.98	54.00	9.66	V
17974.700	44.26	-29.59	45.95	27.90	54.00	9.74	H
14483.300	37.95	-29.56	41.90	25.61	54.00	16.05	V
14470.100	37.86	-29.56	41.90	25.52	54.00	16.14	H
11881.800	35.18	-32.53	39.10	28.61	54.00	18.82	H
11905.500	35.04	-32.53	39.10	28.47	54.00	18.96	H

Channel 157

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17971.400	44.62	-29.59	45.95	28.26	54.00	9.38	H
17996.700	44.32	-29.59	45.95	27.96	54.00	9.68	V
14471.200	37.51	-29.56	41.90	25.17	54.00	16.49	H
14486.600	37.45	-29.56	41.90	25.11	54.00	16.55	H
11857.600	35.26	-32.73	39.15	28.84	54.00	18.74	V
11875.800	35.24	-32.73	39.15	28.82	54.00	18.76	V

Channel 165

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17994.500	44.41	-29.59	45.95	28.05	54.00	9.59	V
17985.200	44.32	-29.59	45.95	27.96	54.00	9.68	V
14478.400	37.64	-29.56	41.90	25.30	54.00	16.36	V
14472.900	37.62	-29.56	41.90	25.28	54.00	16.38	H
11869.100	35.91	-32.73	39.15	29.49	54.00	18.09	H
11897.800	35.32	-32.53	39.10	28.75	54.00	18.68	V

802.11ax-HT40

Channel 151

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17975.800	44.41	-29.59	45.95	28.05	54.00	9.59	V
17947.800	44.33	-29.59	45.95	27.97	54.00	9.67	V
14482.800	37.54	-29.56	41.90	25.20	54.00	16.46	V
14481.600	37.53	-29.56	41.90	25.19	54.00	16.47	H
11791.000	35.44	-32.09	39.20	28.33	54.00	18.56	V
11867.000	35.20	-32.73	39.15	28.78	54.00	18.80	V

Channel 159

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17990.700	44.74	-29.59	45.95	28.38	54.00	9.26	V
17992.800	44.55	-29.59	45.95	28.19	54.00	9.45	H
14499.200	37.89	-29.56	41.90	25.55	54.00	16.11	H
14498.100	37.88	-29.56	41.90	25.54	54.00	16.12	V
11898.900	35.10	-32.53	39.10	28.53	54.00	18.90	V
11906.000	35.09	-32.53	39.10	28.52	54.00	18.91	H

802.11ax-HT80

Channel 155

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17998.900	44.65	-29.59	45.95	28.29	54.00	9.35	H
17970.800	44.32	-29.59	45.95	27.96	54.00	9.68	V
14494.900	37.76	-29.56	41.90	25.42	54.00	16.24	H
14492.600	37.74	-29.56	41.90	25.40	54.00	16.26	V
11867.500	35.30	-32.73	39.15	28.88	54.00	18.70	V
11828.500	35.28	-32.09	39.20	28.17	54.00	18.72	V

802.11ax-HT20 partial RU26

Channel 149

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17967.000	45.12	-29.59	45.95	28.76	54.00	8.88	H
17990.100	45.07	-29.59	45.95	28.71	54.00	8.93	H
14498.700	38.74	-29.56	41.90	26.40	54.00	15.26	H
14476.700	38.62	-29.56	41.90	26.28	54.00	15.38	V
11897.200	36.18	-32.53	39.10	29.61	54.00	17.82	V
11912.050	36.16	-32.53	39.10	29.59	54.00	17.84	V

Channel 157

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17993.400	45.55	-29.59	45.95	29.19	54.00	8.45	V
17994.500	45.04	-29.59	45.95	28.68	54.00	8.96	H
14475.050	38.52	-29.56	41.90	26.18	54.00	15.48	V
14470.100	38.46	-29.56	41.90	26.12	54.00	15.54	V
11868.600	36.29	-32.73	39.15	29.87	54.00	17.71	V
11863.650	36.03	-32.73	39.15	29.61	54.00	17.97	V

Channel 165

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17974.700	45.18	-29.59	45.95	28.82	54.00	8.82	H
17996.150	45.16	-29.59	45.95	28.80	54.00	8.84	H
14482.750	38.73	-29.56	41.90	26.39	54.00	15.27	V
14497.600	38.60	-29.56	41.90	26.26	54.00	15.40	H
11887.300	36.27	-32.53	39.10	29.70	54.00	17.73	H
11869.150	36.15	-32.73	39.15	29.73	54.00	17.85	V

802.11ax-HT40 partial RU26

Channel 151

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17983.500	43.52	-29.59	45.95	27.16	54.00	10.48	H
17996.700	43.34	-29.59	45.95	26.98	54.00	10.66	H
14482.800	35.84	-29.56	41.90	23.50	54.00	18.16	V
14499.200	35.79	-29.56	41.90	23.45	54.00	18.21	H
11830.100	33.32	-32.09	39.20	26.21	54.00	20.68	V
11901.600	32.87	-32.53	39.10	26.30	54.00	21.13	V

Channel 159

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17995.600	44.95	-29.59	45.95	28.59	54.00	9.05	H
17966.450	44.91	-29.59	45.95	28.55	54.00	9.09	V
14497.600	38.58	-29.56	41.90	26.24	54.00	15.42	H
14473.950	38.57	-29.56	41.90	26.23	54.00	15.43	H
11786.100	36.44	-32.09	39.20	29.33	54.00	17.56	H
11897.750	36.26	-32.53	39.10	29.69	54.00	17.74	V

802.11ax-HT80 partial RU26

Channel 155

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17953.800	45.05	-29.59	45.95	28.69	54.00	8.95	H
17972.500	45.02	-29.59	45.95	28.66	54.00	8.98	V
14493.200	38.80	-29.56	41.90	26.46	54.00	15.20	H
14481.650	38.57	-29.56	41.90	26.23	54.00	15.43	V
11903.250	36.49	-32.53	39.10	29.92	54.00	17.51	V
11904.350	36.18	-32.53	39.10	29.61	54.00	17.82	H

Peak Results:
802.11a

Channel 149

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17964.800	55.82	-29.59	45.95	39.46	74.00	18.18	V
17982.400	55.54	-29.59	45.95	39.18	74.00	18.46	V
14200.600	50.01	-30.42	41.70	38.73	68.30	18.29	H
14201.700	49.78	-30.42	41.70	38.50	68.30	18.52	V
11796.000	46.33	-32.09	39.20	39.22	74.00	27.67	H
11848.800	45.88	-32.73	39.15	39.46	74.00	28.12	V

Channel 157

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17961.500	55.05	-29.59	45.95	38.69	74.00	18.95	V
17995.600	54.74	-29.59	45.95	38.38	74.00	19.26	V
14208.900	49.87	-30.75	41.75	38.87	68.30	18.43	V
14582.300	49.83	-29.14	41.90	37.07	68.30	18.47	H
11768.000	46.07	-32.71	39.20	39.58	74.00	27.93	V
11867.000	45.97	-32.73	39.15	39.55	74.00	28.03	H

Channel 165

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17997.800	55.44	-29.59	45.95	39.08	74.00	18.56	H
17990.100	55.27	-29.59	45.95	38.91	74.00	18.73	V
14664.800	49.85	-30.04	41.50	38.39	68.30	18.45	H
14578.500	49.55	-29.14	41.90	36.79	68.30	18.75	H
11886.200	46.42	-32.53	39.10	39.85	74.00	27.58	H
11411.500	46.00	-32.58	39.00	39.58	74.00	28.00	V

802.11n-HT20

Channel 149

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17958.200	55.79	-29.59	45.95	39.43	74.00	18.21	H
17939.500	55.25	-29.59	45.95	38.89	74.00	18.75	H
14146.100	49.74	-30.93	41.70	38.96	68.30	18.56	H
14683.000	49.66	-30.04	41.50	38.20	68.30	18.64	H
11812.500	46.16	-32.09	39.20	39.05	74.00	27.84	V
11880.100	45.98	-32.73	39.15	39.56	74.00	28.02	H

Channel 157

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17987.300	54.93	-29.59	45.95	38.57	74.00	19.07	V
17986.800	54.86	-29.59	45.95	38.50	74.00	19.14	V
14261.600	49.44	-30.12	41.80	37.76	68.30	18.86	V
14685.100	49.22	-30.04	41.50	37.76	68.30	19.08	H
11782.200	46.63	-32.09	39.20	39.52	74.00	27.37	H
11871.900	46.39	-32.73	39.15	39.97	74.00	27.61	H

Channel 165

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17975.800	55.31	-29.59	45.95	38.95	74.00	18.69	V
17962.000	55.04	-29.59	45.95	38.68	74.00	18.96	H
14200.600	50.03	-30.42	41.70	38.75	68.30	18.27	V
14136.800	49.78	-30.93	41.70	39.00	68.30	18.52	H
11736.000	46.20	-32.71	39.20	39.71	74.00	27.80	H
11814.700	46.12	-32.09	39.20	39.01	74.00	27.88	V

802.11n-HT40

Channel 151

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17995.600	55.48	-29.59	45.95	39.12	74.00	18.52	H
17996.200	55.29	-29.59	45.95	38.93	74.00	18.71	V
14619.100	49.66	-30.67	41.70	38.63	68.30	18.64	V
14563.000	49.55	-29.14	41.90	36.79	68.30	18.75	V
11796.000	46.96	-32.09	39.20	39.85	74.00	27.04	V
11974.200	46.65	-32.42	39.05	40.02	74.00	27.35	V

Channel 159

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17957.700	55.16	-29.59	45.95	38.80	74.00	18.84	V
17976.900	55.12	-29.59	45.95	38.76	74.00	18.88	H
13739.100	50.17	-31.18	41.10	40.25	68.30	18.13	V
14689.000	50.13	-30.04	41.50	38.67	68.30	18.17	V
11398.400	46.35	-32.58	39.00	39.93	74.00	27.65	V
11858.700	46.32	-32.73	39.15	39.90	74.00	27.68	V

802.11ac-HT20

Channel 149

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17949.400	55.70	-29.59	45.95	39.34	74.00	18.30	V
17982.400	55.03	-29.59	45.95	38.67	74.00	18.97	H
14514.100	49.79	-30.55	41.90	38.44	68.30	18.51	V
14332.600	49.72	-30.44	41.85	38.31	68.30	18.58	V
11907.600	46.07	-32.53	39.10	39.50	74.00	27.93	V
11675.500	46.05	-32.62	39.20	39.47	74.00	27.95	H

Channel 157

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17990.100	55.55	-29.59	45.95	39.19	74.00	18.45	V
17925.200	55.36	-29.59	45.95	39.00	74.00	18.64	H
14522.900	49.95	-30.55	41.90	38.60	68.30	18.35	V
14717.600	49.47	-30.13	41.35	38.25	68.30	18.83	H
11779.500	46.55	-32.71	39.20	40.06	74.00	27.45	V
11881.800	46.51	-32.53	39.10	39.94	74.00	27.49	H

Channel 165

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17946.100	55.00	-29.59	45.95	38.64	74.00	19.00	V
17984.600	54.96	-29.59	45.95	38.60	74.00	19.04	H
14595.000	50.26	-29.14	41.90	37.50	68.30	18.04	H
14169.200	49.74	-30.42	41.70	38.46	68.30	18.56	V
11869.100	47.11	-32.73	39.15	40.69	74.00	26.89	H
11772.400	46.56	-32.71	39.20	40.07	74.00	27.44	V

802.11ac-HT40

Channel 151

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17957.700	55.41	-29.59	45.95	39.05	74.00	18.59	V
17989.000	55.04	-29.59	45.95	38.68	74.00	18.96	V
14592.800	49.74	-29.14	41.90	36.98	68.30	18.56	V
14680.800	49.71	-30.04	41.50	38.25	68.30	18.59	H
11892.200	46.84	-32.53	39.10	40.27	74.00	27.16	H
11837.800	46.16	-32.73	39.15	39.74	74.00	27.84	V

Channel 159

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17992.300	56.20	-29.59	45.95	39.84	74.00	17.80	V
17997.200	55.70	-29.59	45.95	39.34	74.00	18.30	H
14679.100	50.14	-30.04	41.50	38.68	68.30	18.16	H
14561.400	49.93	-29.14	41.90	37.17	68.30	18.37	H
11787.200	46.89	-32.09	39.20	39.78	74.00	27.11	H
11917.500	46.84	-32.53	39.10	40.27	74.00	27.16	H

802.11ac-HT80

Channel 155

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17987.300	55.72	-29.59	45.95	39.36	74.00	18.28	H
17960.400	55.68	-29.59	45.95	39.32	74.00	18.32	V
14581.800	49.78	-29.14	41.90	37.02	68.30	18.52	H
14234.700	49.67	-30.75	41.75	38.67	68.30	18.63	H
11830.600	47.28	-32.09	39.20	40.17	74.00	26.72	V
11884.000	47.14	-32.53	39.10	40.57	74.00	26.86	H

802.11ax-HT20

Channel 149

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17992.800	55.26	-29.59	45.95	38.90	74.00	18.74	V
17992.300	54.98	-29.59	45.95	38.62	74.00	19.02	V
14198.400	49.79	-30.42	41.70	38.51	68.30	18.51	H
14601.500	49.38	-29.14	41.90	36.62	68.30	18.92	V
11791.000	46.55	-32.09	39.20	39.44	74.00	27.45	H
11731.600	46.26	-32.70	39.20	39.76	74.00	27.74	V

Channel 157

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17976.300	55.59	-29.59	45.95	39.23	74.00	18.41	V
17973.600	55.14	-29.59	45.95	38.78	74.00	18.86	V
14268.800	50.35	-30.12	41.80	38.67	68.30	17.95	H
14555.400	49.60	-29.14	41.90	36.84	68.30	18.70	H
11869.100	46.24	-32.73	39.15	39.82	74.00	27.76	V
11833.400	46.20	-32.73	39.15	39.78	74.00	27.80	H

Channel 165

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17993.400	54.91	-29.59	45.95	38.55	74.00	19.09	H
17977.500	54.90	-29.59	45.95	38.54	74.00	19.10	H
14208.300	50.43	-30.75	41.75	39.43	68.30	17.87	V
14559.800	49.68	-29.14	41.90	36.92	68.30	18.62	H
11865.900	46.81	-32.73	39.15	40.39	74.00	27.19	V
11897.800	46.33	-32.53	39.10	39.76	74.00	27.67	V

802.11ax-HT40

Channel 151

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17995.600	55.56	-29.59	45.95	39.20	74.00	18.44	H
17950.500	55.30	-29.59	45.95	38.94	74.00	18.70	H
14597.100	50.00	-29.14	41.90	37.24	68.30	18.30	H
14696.100	49.69	-30.04	41.50	38.23	68.30	18.61	H
11776.200	46.11	-32.71	39.20	39.62	74.00	27.89	H
11906.000	45.95	-32.53	39.10	39.38	74.00	28.05	H

Channel 159

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17975.200	55.38	-29.59	45.95	39.02	74.00	18.62	V
17968.700	55.00	-29.59	45.95	38.64	74.00	19.00	H
14684.600	50.39	-30.04	41.50	38.93	68.30	17.91	H
14610.900	49.91	-30.67	41.70	38.88	68.30	18.39	V
11836.100	46.27	-32.73	39.15	39.85	74.00	27.73	V
11922.500	46.26	-32.53	39.10	39.69	74.00	27.74	V

802.11ax-HT80

Channel 155

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17992.300	55.31	-29.59	45.95	38.95	74.00	18.69	H
17977.500	55.22	-29.59	45.95	38.86	74.00	18.78	H
14187.400	50.29	-30.42	41.70	39.01	68.30	18.01	H
14585.600	49.77	-29.14	41.90	37.01	68.30	18.53	V
8994.900	46.48	-34.57	37.70	43.35	68.30	21.82	H
11849.400	46.12	-32.73	39.15	39.70	74.00	27.88	V

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Channel 149

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17992.850	55.93	-29.59	45.95	39.57	74.00	18.07	V
17995.050	55.90	-29.59	45.95	39.54	74.00	18.10	V
14494.850	50.48	-29.56	41.90	38.14	74.00	23.52	H
14695.600	50.00	-30.04	41.50	38.54	68.20	18.20	H
11891.700	47.34	-32.53	39.10	40.77	74.00	26.66	V
11704.150	46.93	-32.70	39.20	40.43	74.00	27.07	H

Channel 157

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17987.900	56.01	-29.59	45.95	39.65	74.00	17.99	V
17969.200	55.72	-29.59	45.95	39.36	74.00	18.28	V
14607.050	50.47	-30.67	41.70	39.44	68.20	17.73	V
14209.400	50.38	-30.75	41.75	39.38	68.20	17.82	H
11838.900	47.40	-32.73	39.15	40.98	74.00	26.60	V
11886.750	47.07	-32.53	39.10	40.50	74.00	26.93	V

Channel 165

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17959.850	55.42	-29.59	45.95	39.06	74.00	18.58	V
17954.350	55.39	-29.59	45.95	39.03	74.00	18.61	H
14567.450	51.83	-29.14	41.90	39.07	68.20	16.37	V
14101.600	51.17	-30.20	41.70	39.67	68.20	17.03	H
11866.950	48.22	-32.73	39.15	41.80	74.00	25.78	H
11861.450	47.11	-32.73	39.15	40.69	74.00	26.89	V

802.11ax-HT40 partial RU26

Channel 151

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17988.500	54.02	-29.59	45.95	37.66	74.00	19.98	V
17958.800	53.93	-29.59	45.95	37.57	74.00	20.07	V
14547.600	48.25	-30.55	41.90	36.90	68.30	20.05	H
14186.300	48.17	-30.42	41.70	36.89	68.30	20.13	V
11731.600	44.43	-32.70	39.20	37.93	74.00	29.57	H
11824.600	43.69	-32.09	39.20	36.58	74.00	30.31	V

Channel 159

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17956.550	55.99	-29.59	45.95	39.63	74.00	18.01	V
17936.200	55.76	-29.59	45.95	39.40	74.00	18.24	V
14571.850	50.67	-29.14	41.90	37.91	68.20	17.53	V
14698.350	50.51	-30.04	41.50	39.05	68.20	17.69	H
11855.950	47.87	-32.73	39.15	41.45	74.00	26.13	V
11894.450	47.86	-32.53	39.10	41.29	74.00	26.14	V

802.11ax-HT80 partial RU26

Channel 155

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17975.800	56.12	-29.59	45.95	39.76	74.00	17.88	V
17958.200	55.81	-29.59	45.95	39.45	74.00	18.19	H
14674.700	50.80	-30.04	41.50	39.34	68.20	17.40	H
14390.900	50.63	-30.24	41.90	38.97	68.20	17.57	V
11786.650	47.80	-32.09	39.20	40.69	74.00	26.20	H
11893.900	46.97	-32.53	39.10	40.40	74.00	27.03	H

A.6. Band Edges Compliance

A6.1 Band Edges - Radiated

Measurement Limit:

Standard	Limit (dBm/MHz)	
FCC 47 CFR Part 15.407	at the band edge	27
	at 5 MHz above or below the band edge	15.6
	at 25 MHz above or below the band edge	10
	at 75 MHz or more above or below the band edge	-27
	Note: increasing linearly from point to point.	

The measurement is made according to KDB 789033 D02

In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

Measurement Result:

Mode	Channel	Test Results	Conclusion
802.11a	5745 MHz	Fig.1	P
	5825 MHz	Fig.2	P
802.11n HT20	5745 MHz	Fig.3	P
	5825 MHz	Fig.4	P
802.11n HT40	5755 MHz	Fig.5	P
	5795 MHz	Fig.6	P
802.11ac HT20	5745 MHz	Fig.7	P
	5825 MHz	Fig.8	P
802.11ac HT40	5755 MHz	Fig.9	P
	5795 MHz	Fig.10	P
802.11ac HT80	5775 MHz	Fig.11 Fig.12	P
802.11ax HT20	5745 MHz	Fig.13	P
	5825 MHz	Fig.14	P
802.11ax HT40	5755 MHz	Fig.15	P
	5795 MHz	Fig.16	P
802.11ax HT80	5775 MHz	Fig.17 Fig.18	P
802.11ax HT20 partial RU26	5745 MHz	Fig.19	P
	5825 MHz	Fig.20	P
802.11ax HT40 partial RU26	5755 MHz	Fig.21	P
	5795 MHz	Fig.22	P
802.11ax HT80 partial RU26	5775 MHz	Fig.23 Fig.24	P

Conclusion: PASS

Test graphs as below:

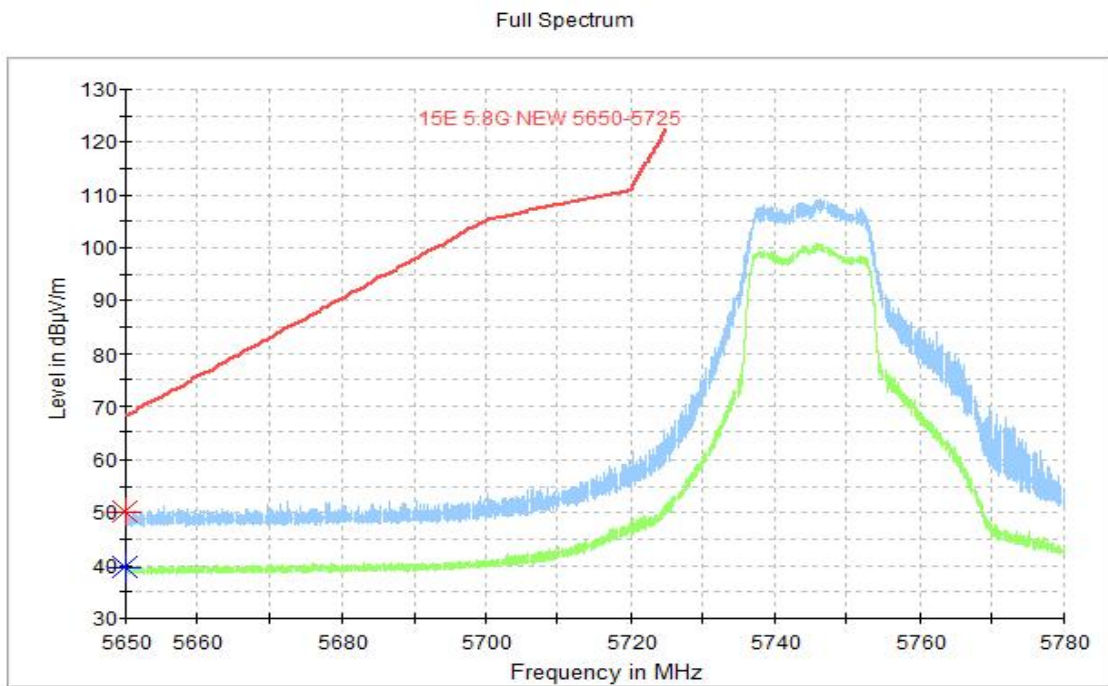


Fig. 1 Band Edges (802.11a Ch149,5745MHz)

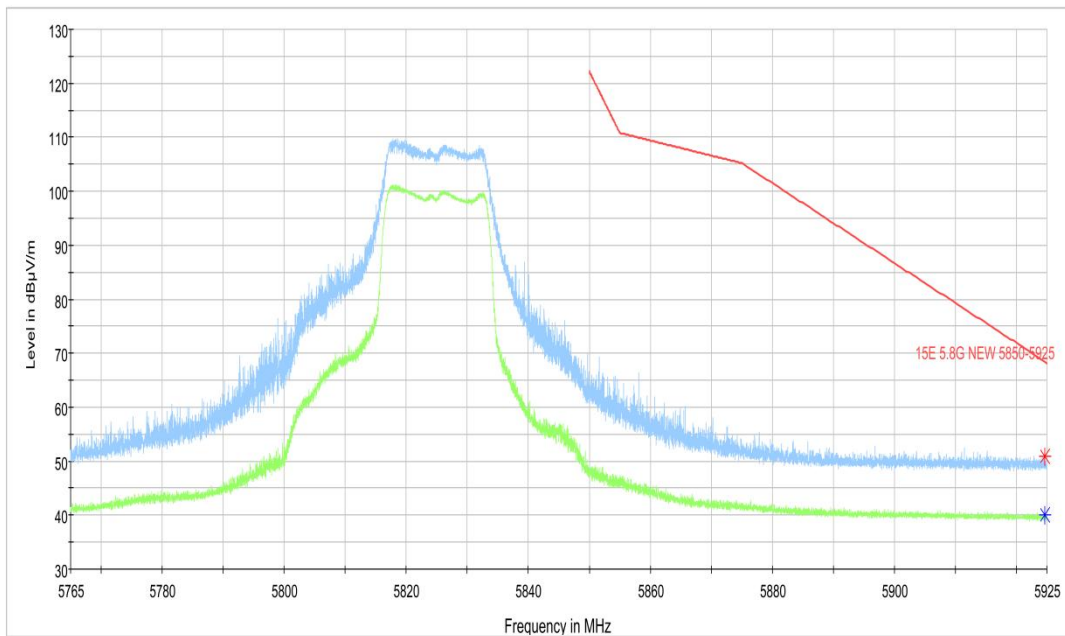


Fig. 2 Band Edges (802.11a Ch165, 5825MHz)

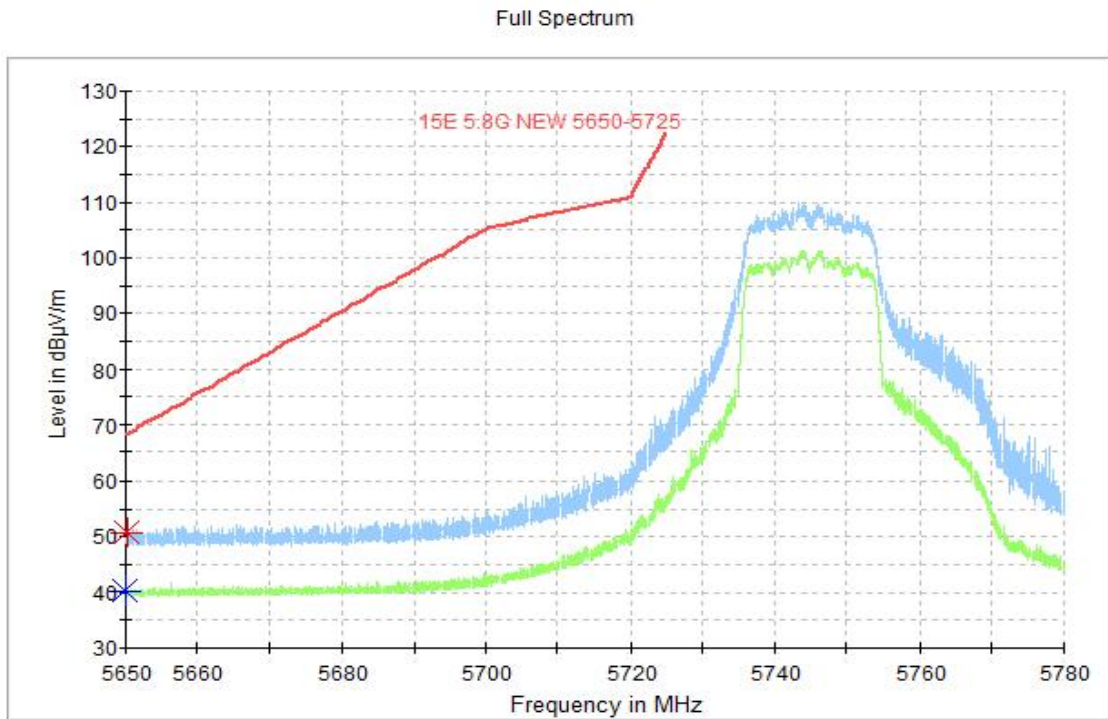


Fig. 3 Band Edges (802.11n-HT20 Ch149, 5745MHz)

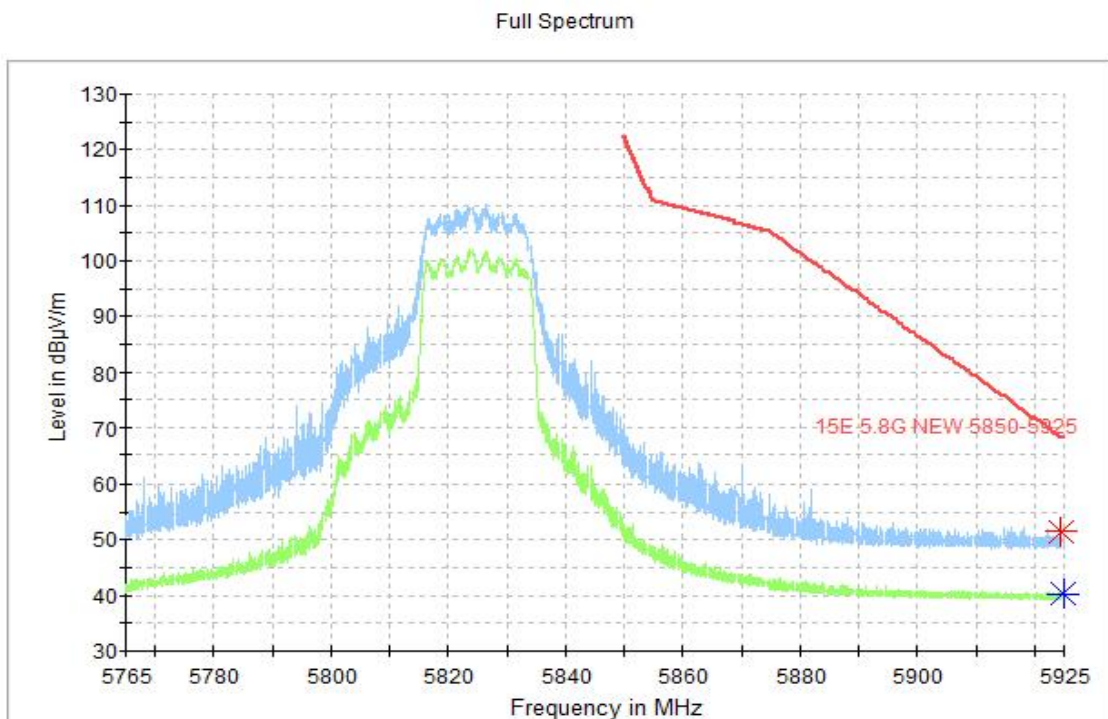


Fig. 4 Band Edges (802.11n-HT20 Ch165, 5825MHz)

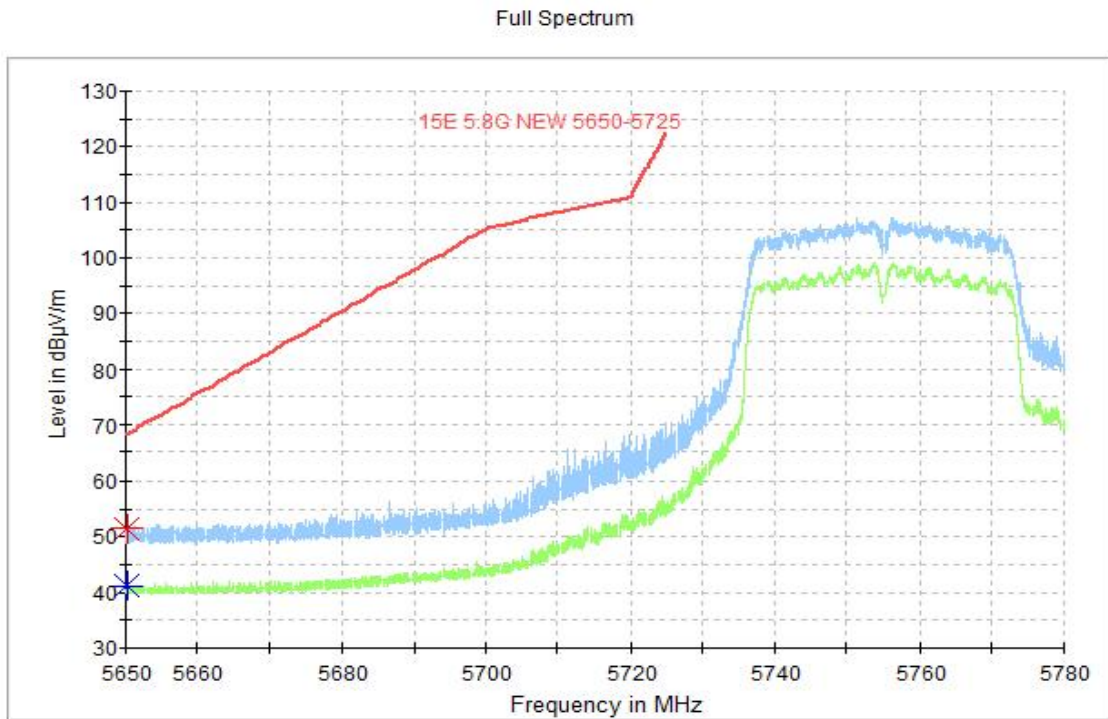


Fig. 5 Band Edges (802.11n-HT40 Ch151, 5755MHz)

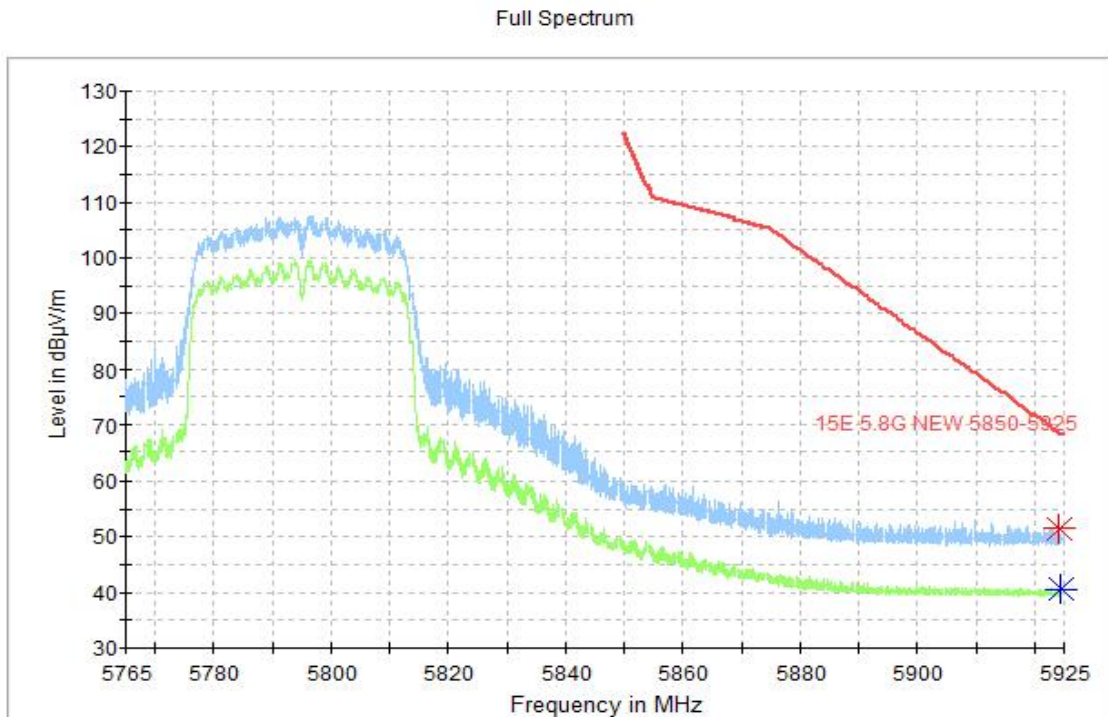


Fig. 6 Band Edges (802.11n-HT40 Ch159, 5795MHz)

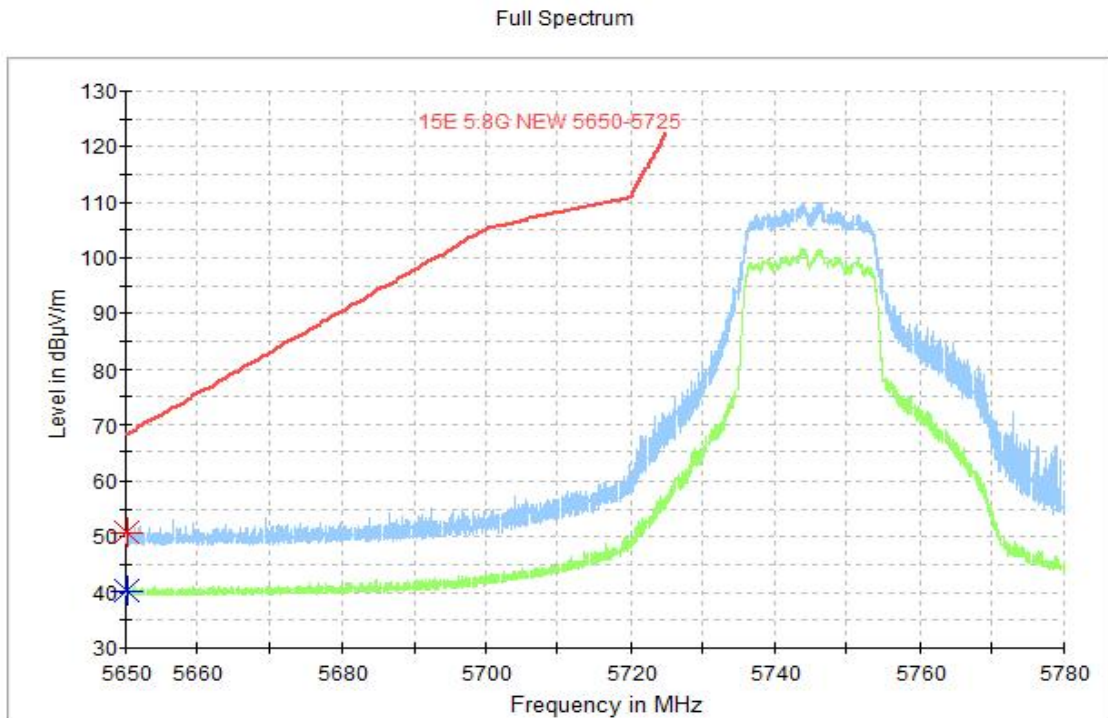


Fig. 7 Band Edges (802.11ac-HT20 Ch149, 5745MHz)

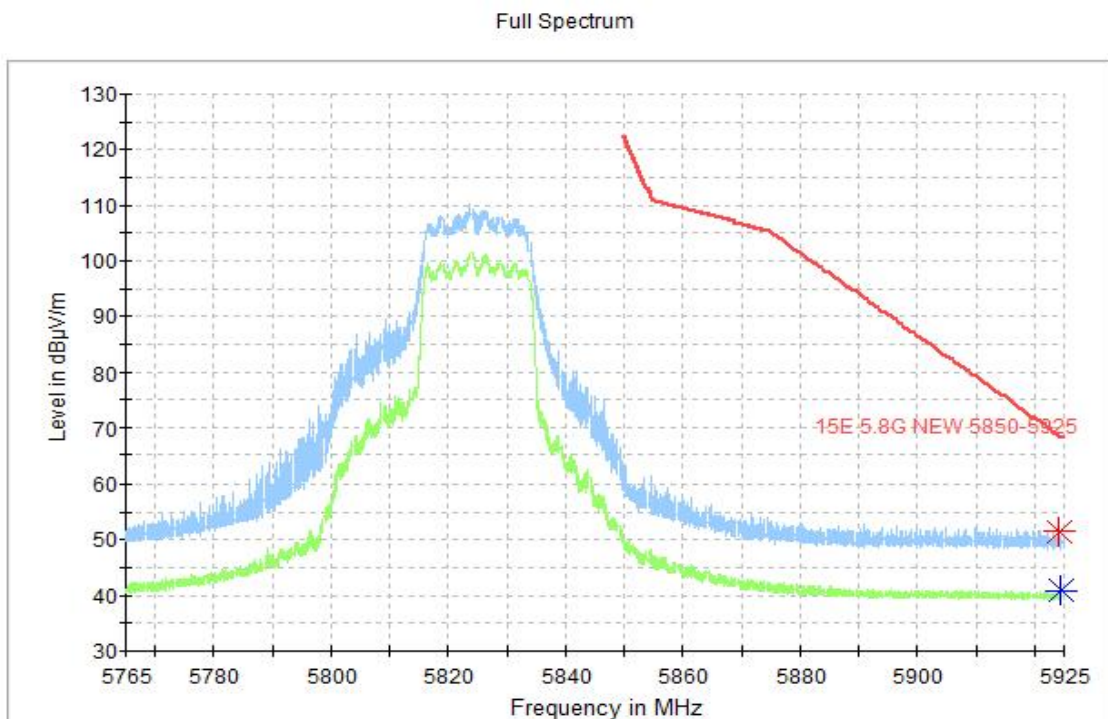


Fig. 8 Band Edges (802.11ac-HT20 Ch165, 5825MHz)

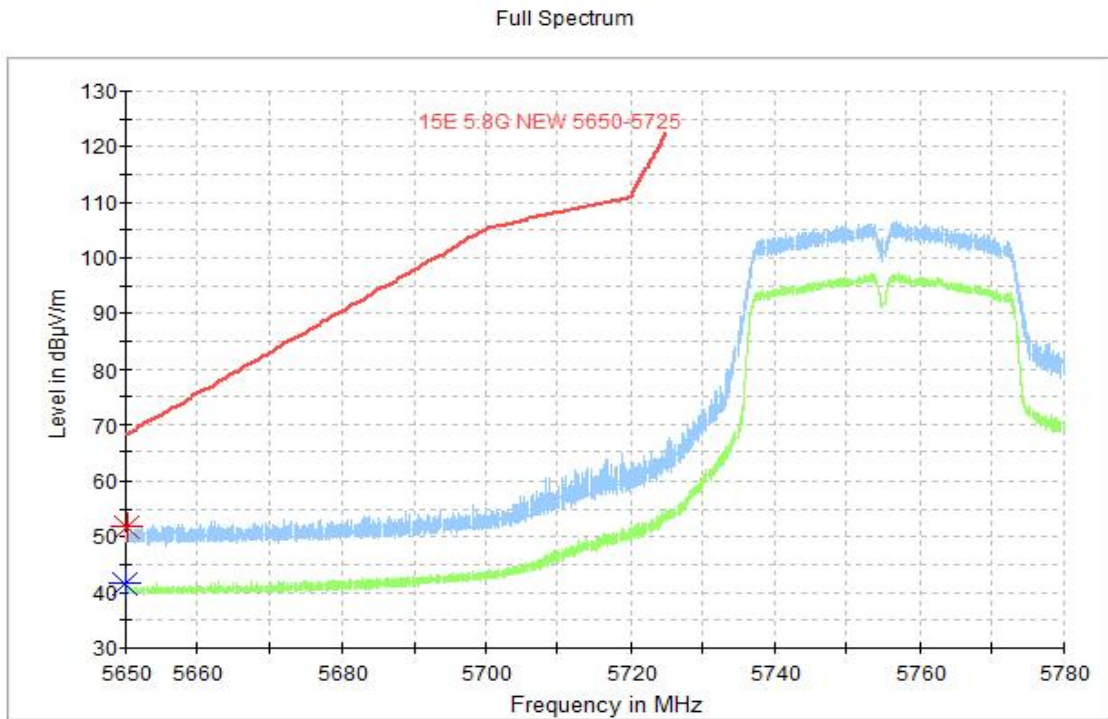


Fig. 9 Band Edges (802.11ac-HT40 Ch151, 5755MHz)

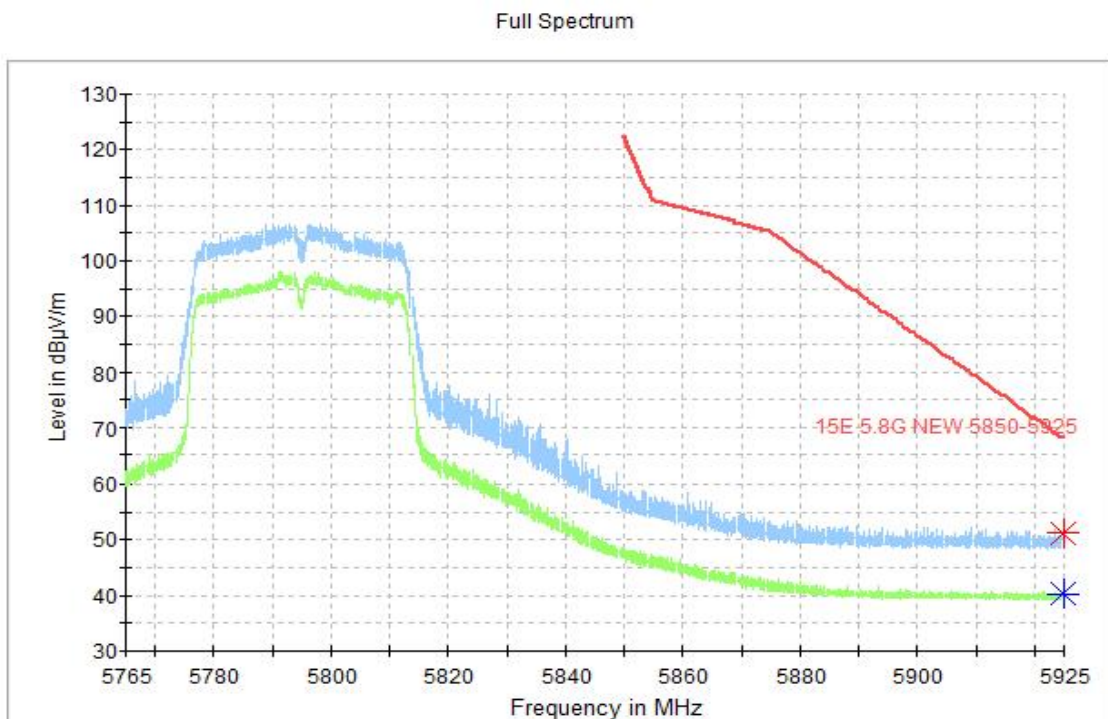


Fig. 10 Band Edges (802.11ac-HT40 Ch159, 5795MHz)

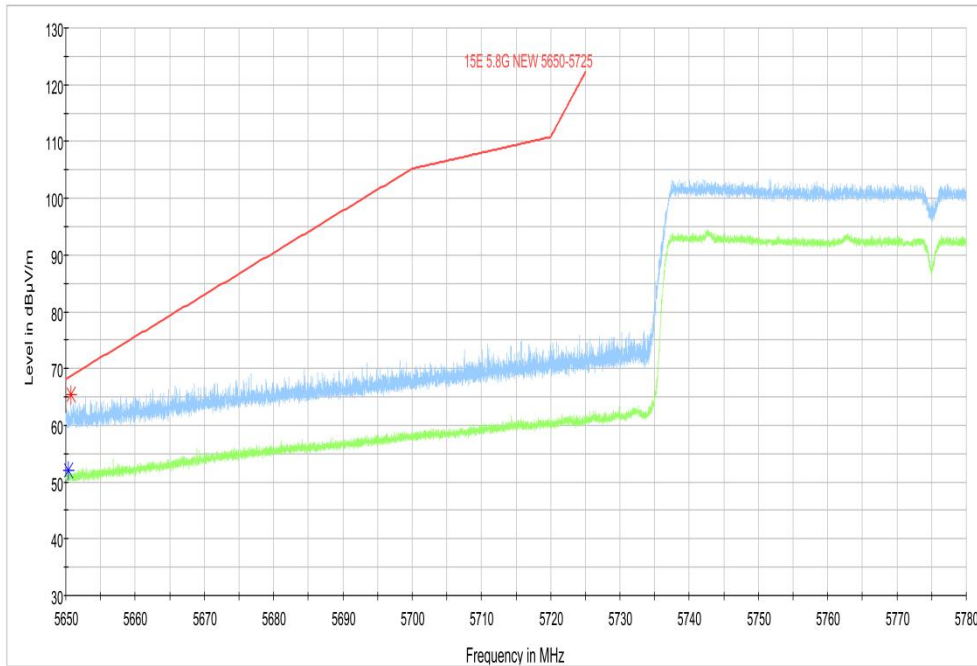


Fig. 11 Band Edges (802.11ac-HT80 Ch155, 5775MHz)

Full Spectrum

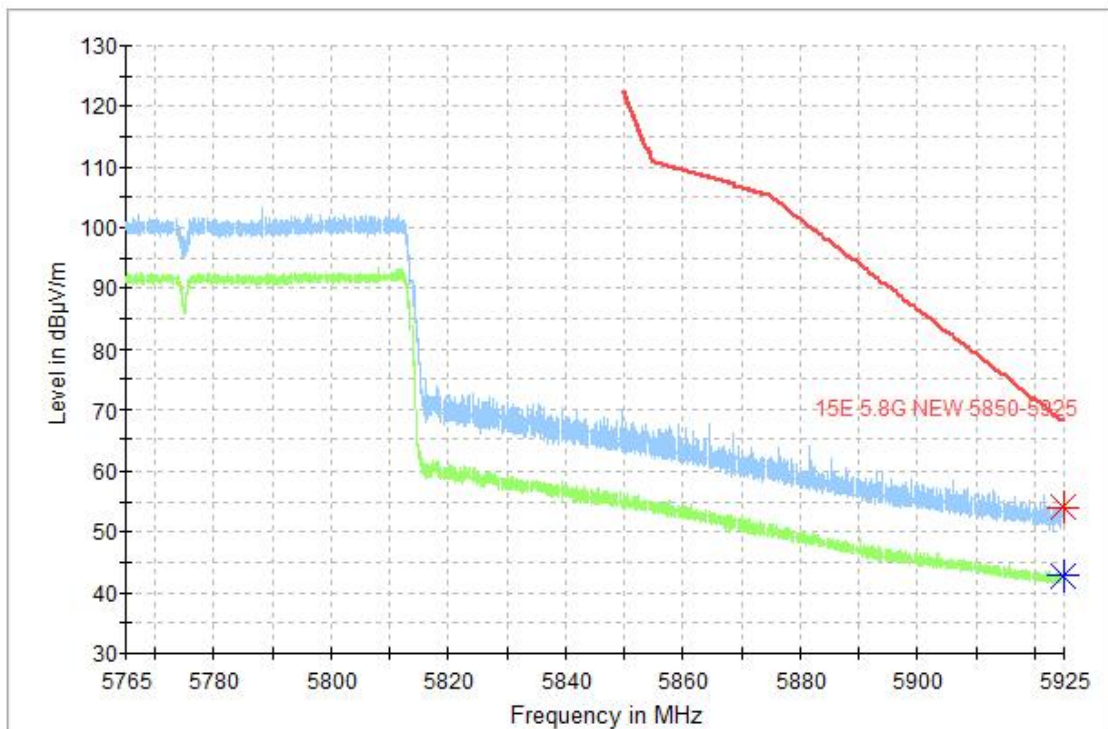


Fig. 12 Band Edges (802.11ac-HT80 Ch155, 5775MHz)

Full Spectrum

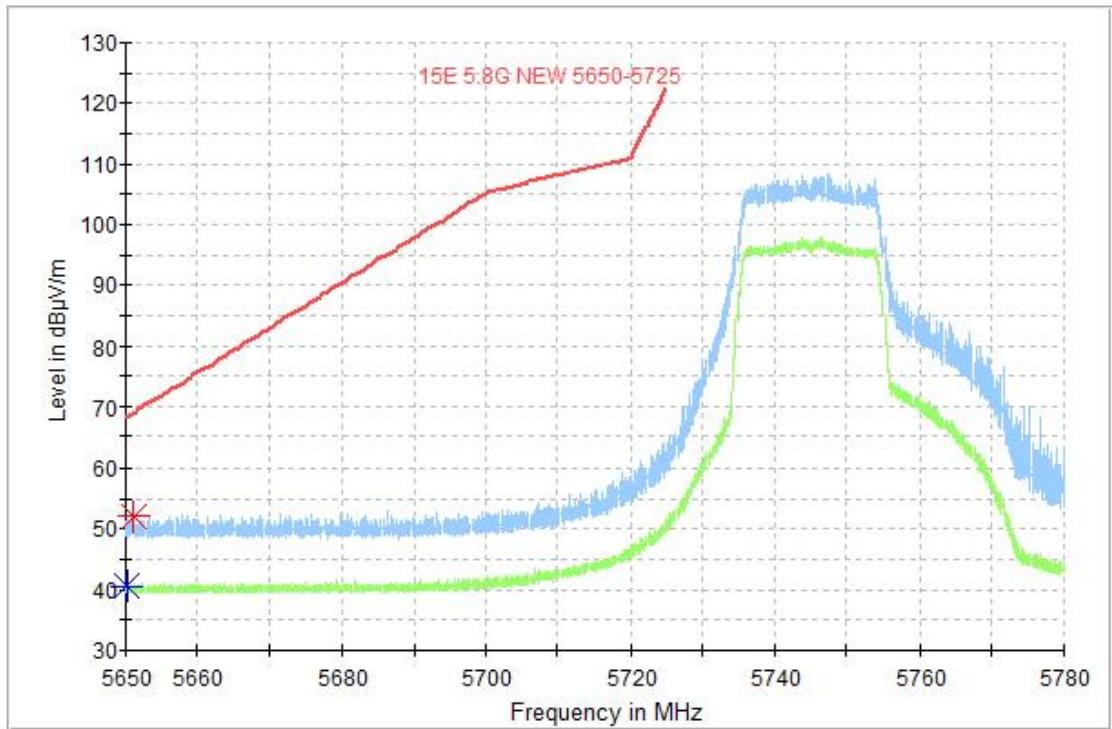


Fig. 13 Band Edges (802.11ax-HT20 Ch149, 5745MHz)

Full Spectrum

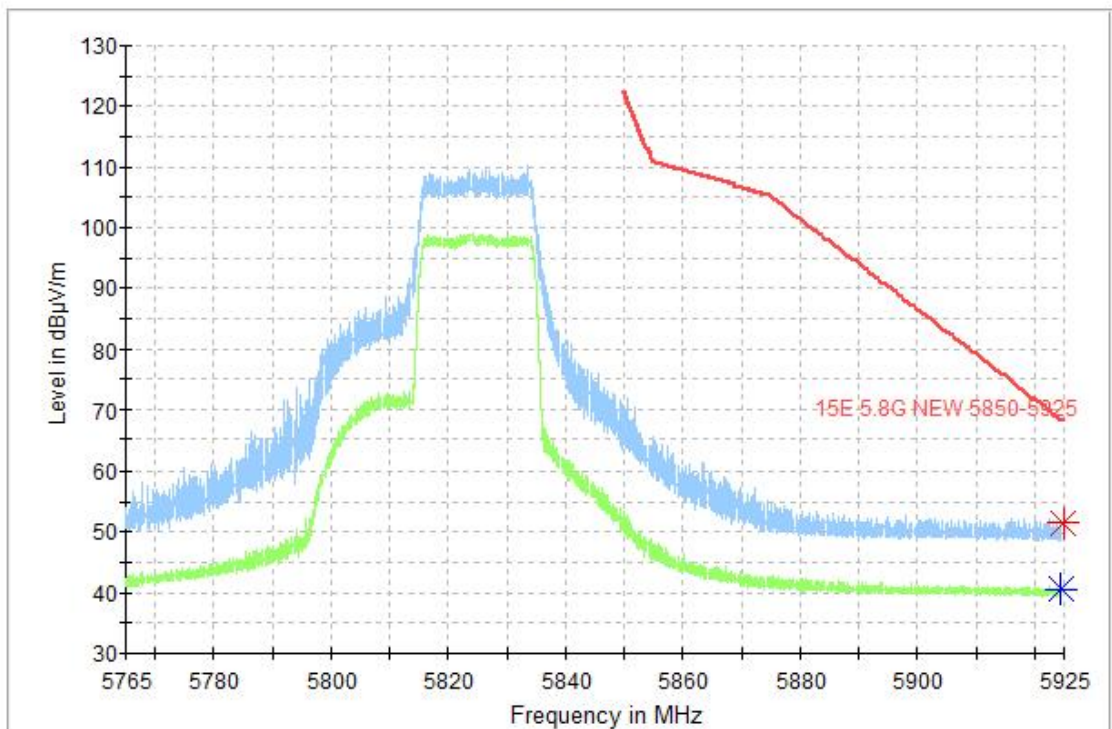


Fig. 14 Band Edges (802.11ax-HT20 Ch165, 5825MHz)

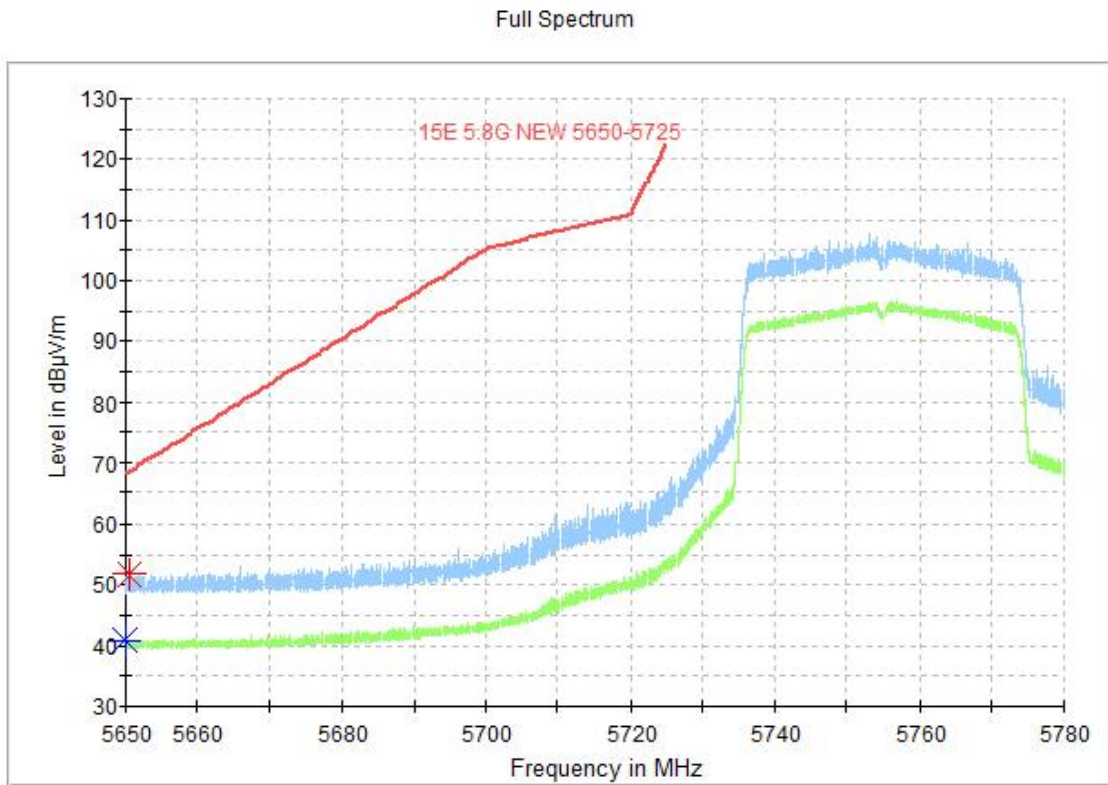


Fig. 15 Band Edges (802.11ax-HT40 Ch151, 5755MHz)

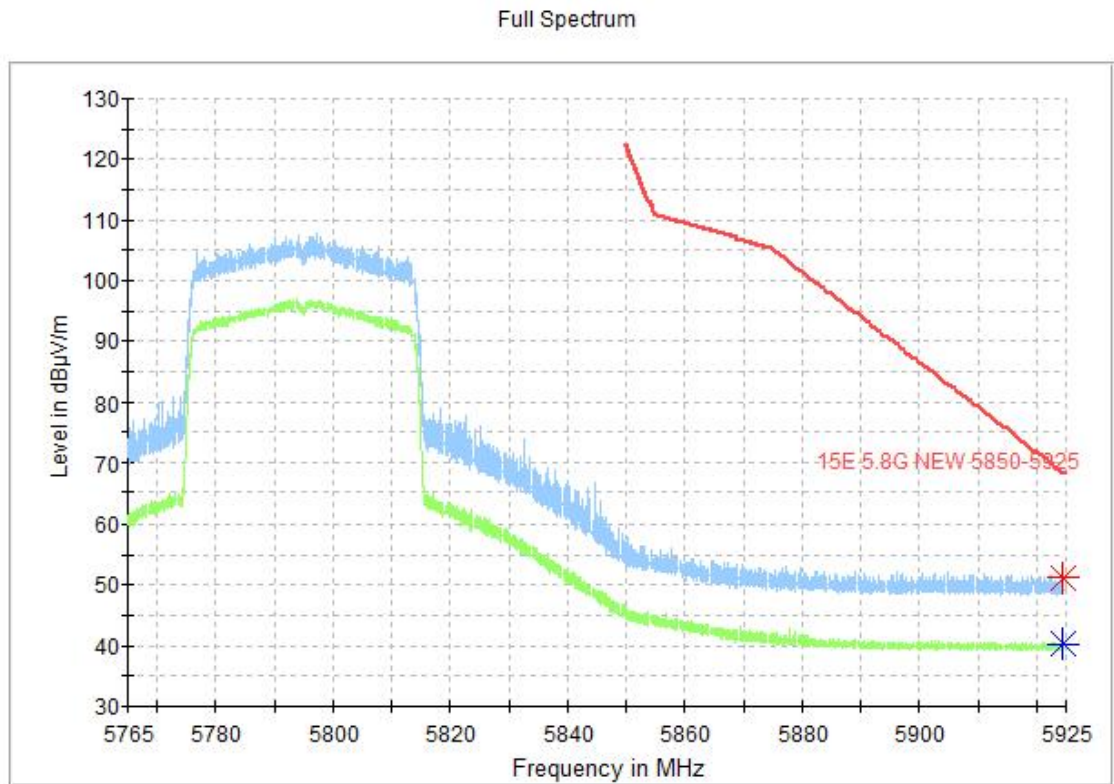


Fig. 16 Band Edges (802.11ax-HT40 Ch159, 5795MHz)

Full Spectrum

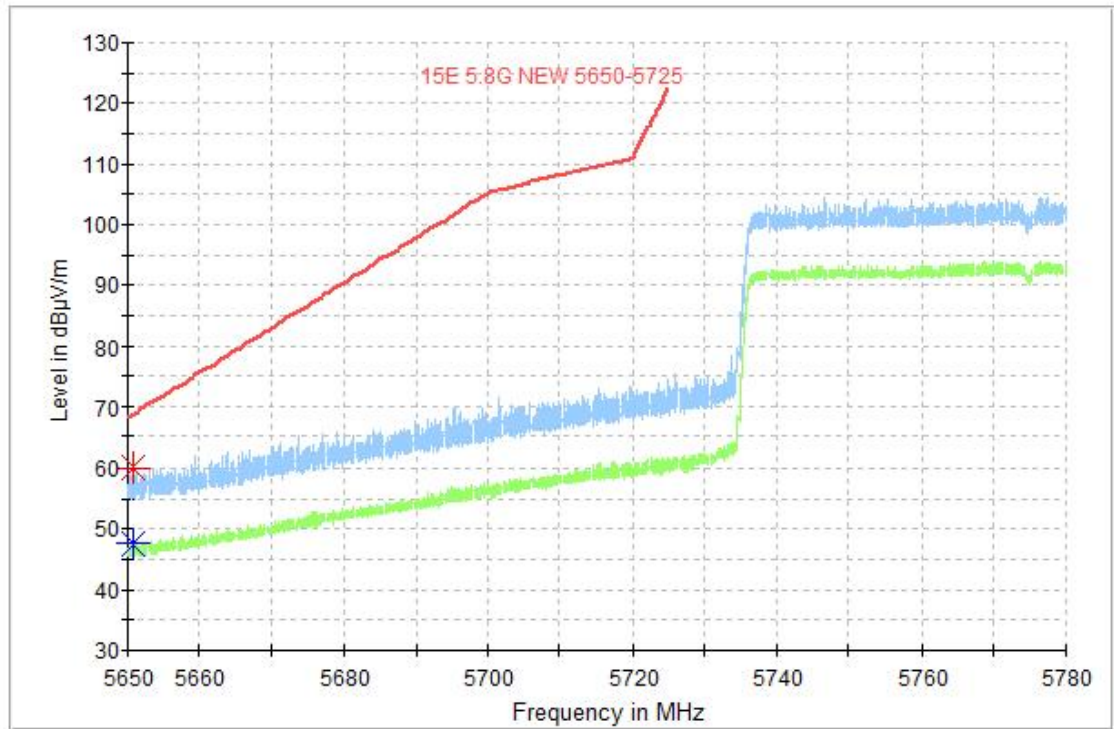


Fig. 17 Band Edges (802.11ax-HT80 Ch155, 5775MHz)

Full Spectrum

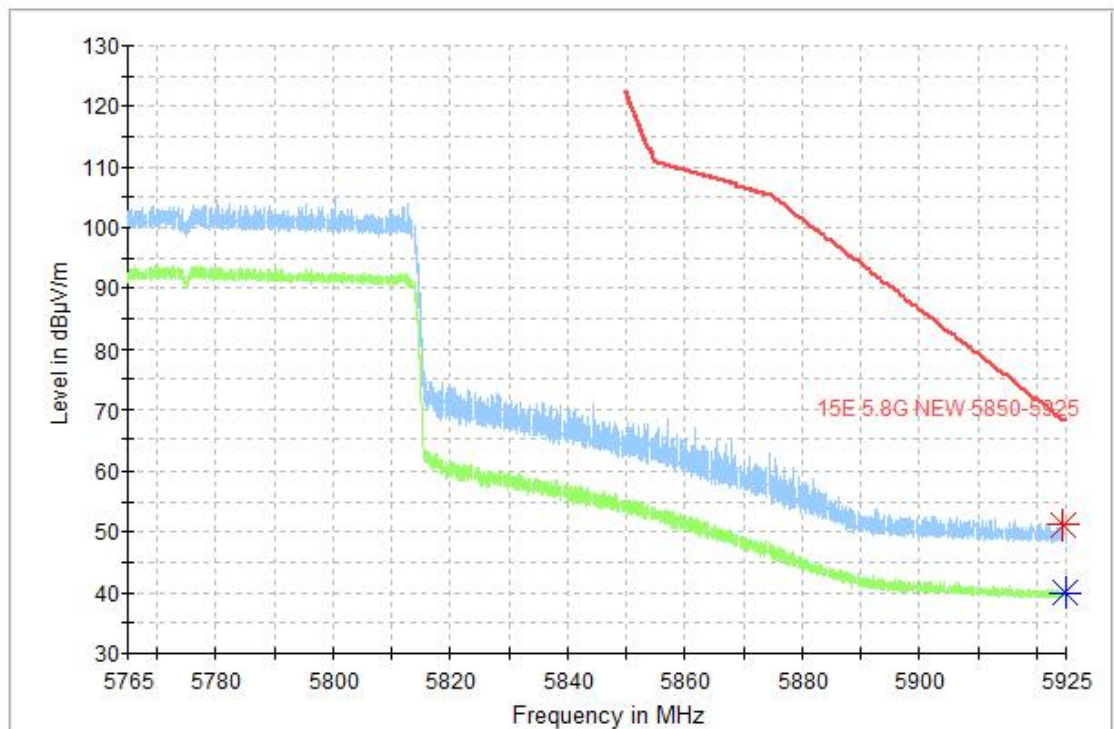


Fig. 18 Band Edges (802.11ax-HT80 Ch155, 5775MHz)

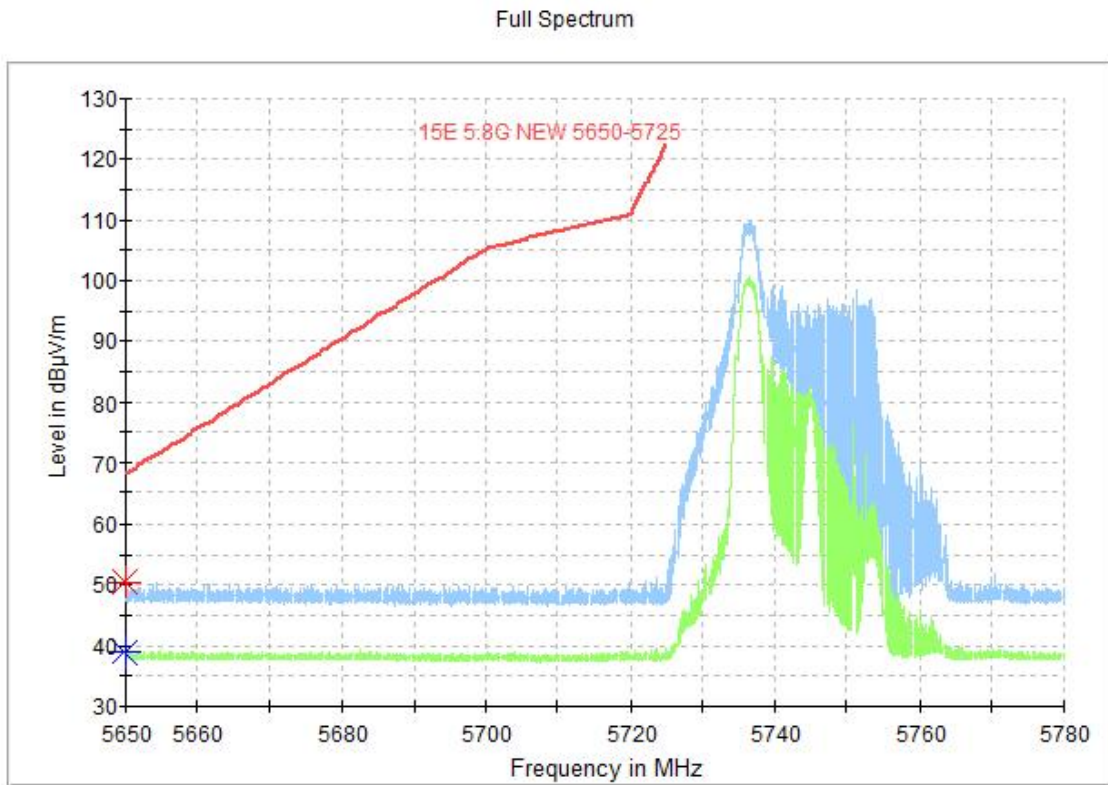


Fig. 19 Band Edges (802.11ax-HT20 partial RU26 Ch149, 5745MHz)

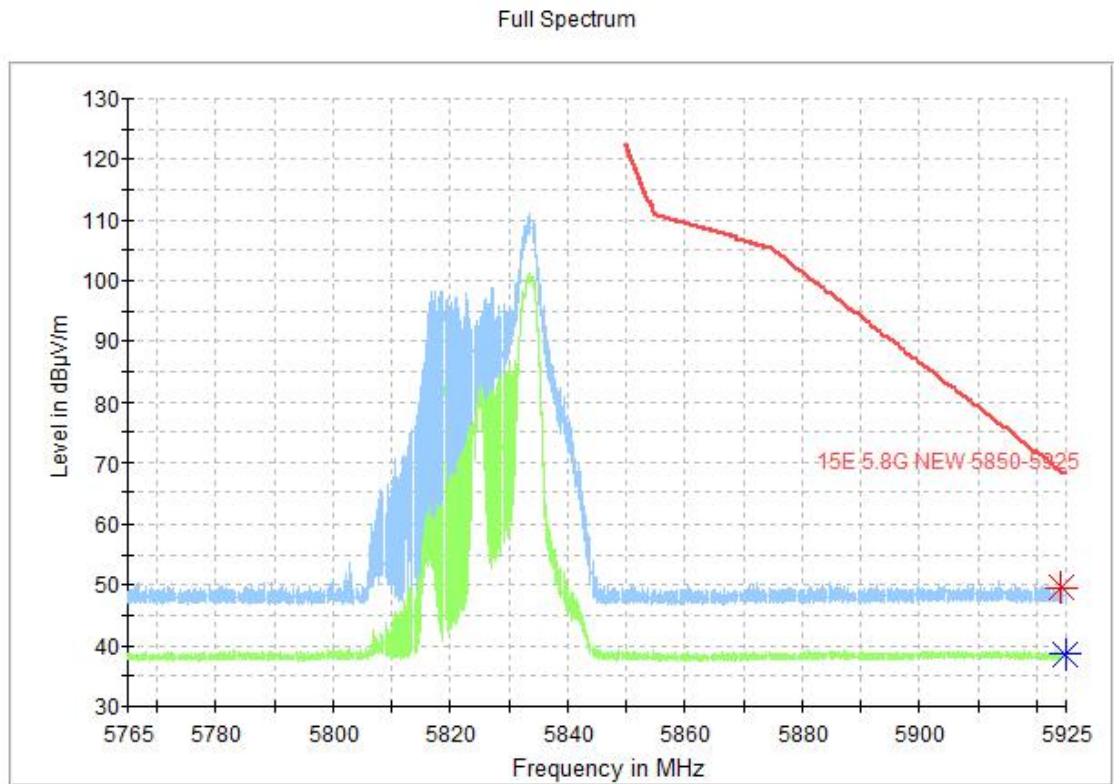


Fig. 20 Band Edges (802.11ax-HT20 partial RU26 Ch165, 5825MHz)

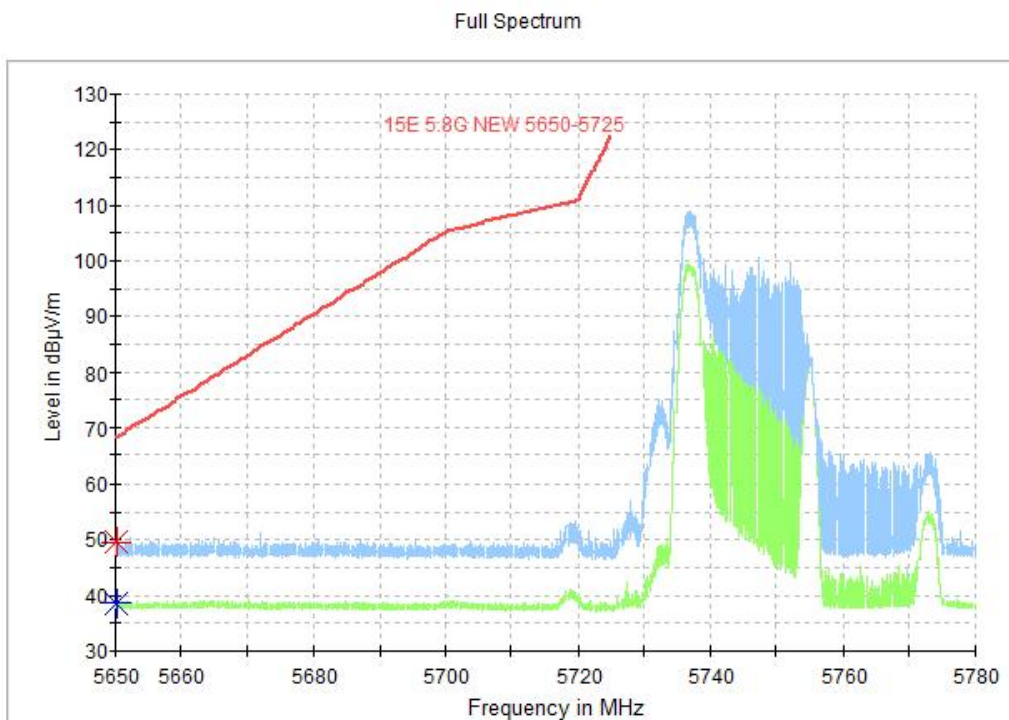


Fig. 21 Band Edges (802.11ax-HT40 partial RU26 Ch151, 5755MHz)

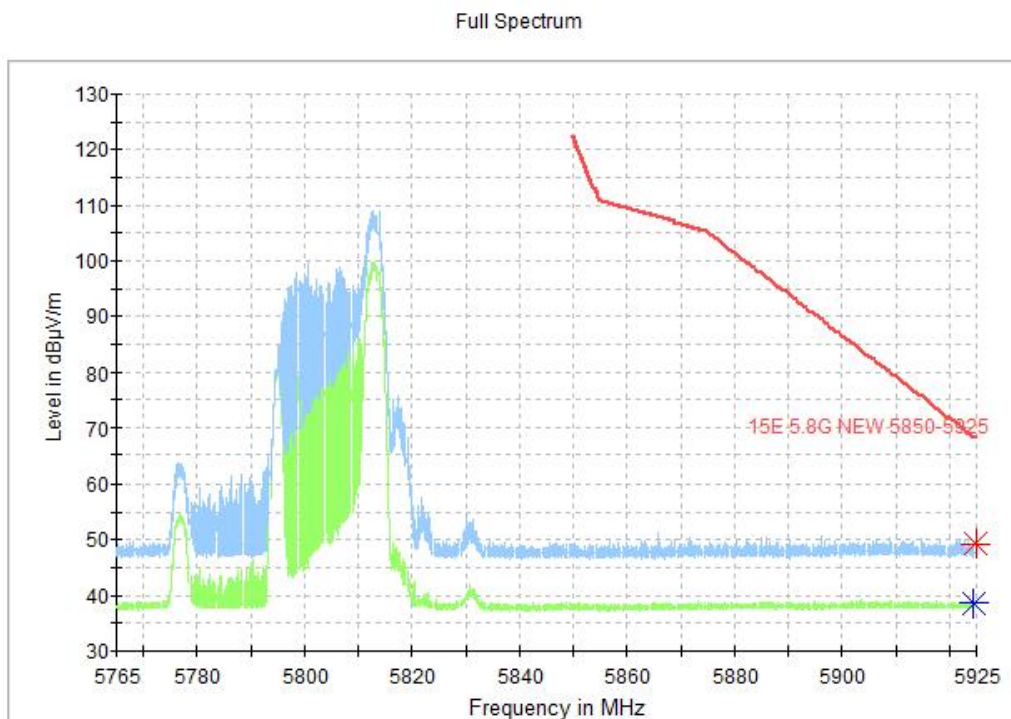


Fig. 22 Band Edges (802.11ax-HT40 partial RU26 Ch159, 5795MHz)

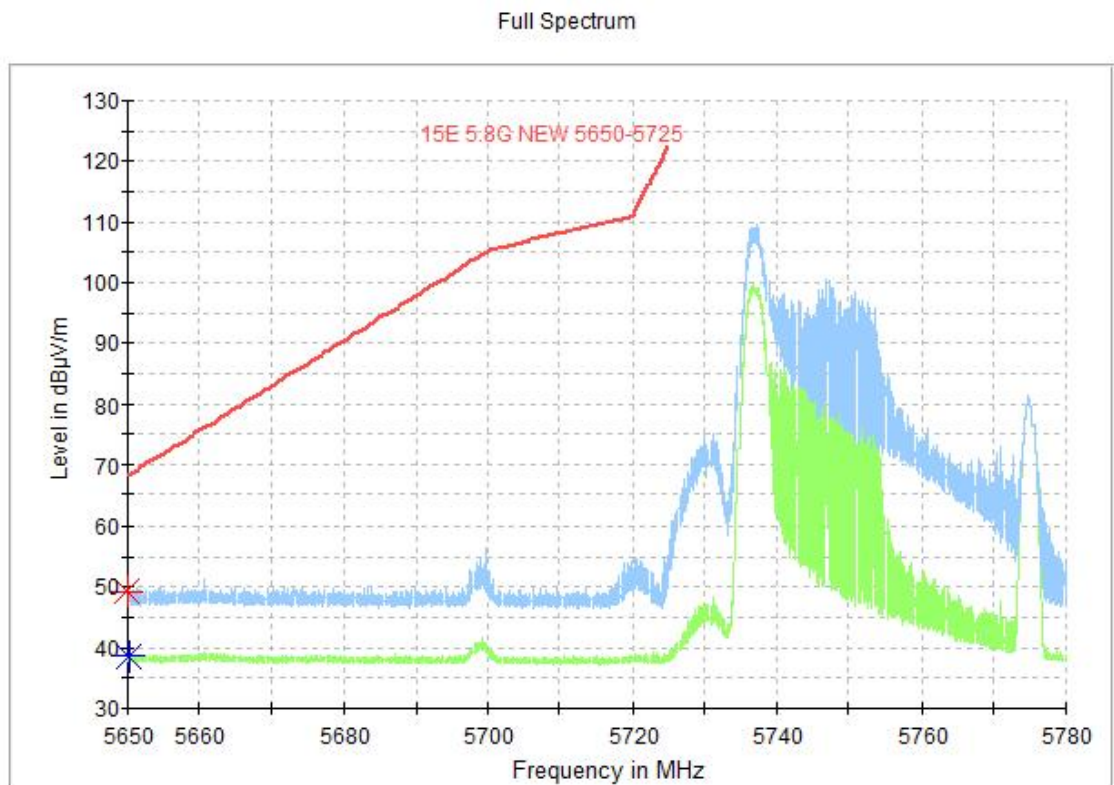


Fig. 23 Band Edges (802.11ax-HT80 partial RU26 Ch155, 5775MHz)

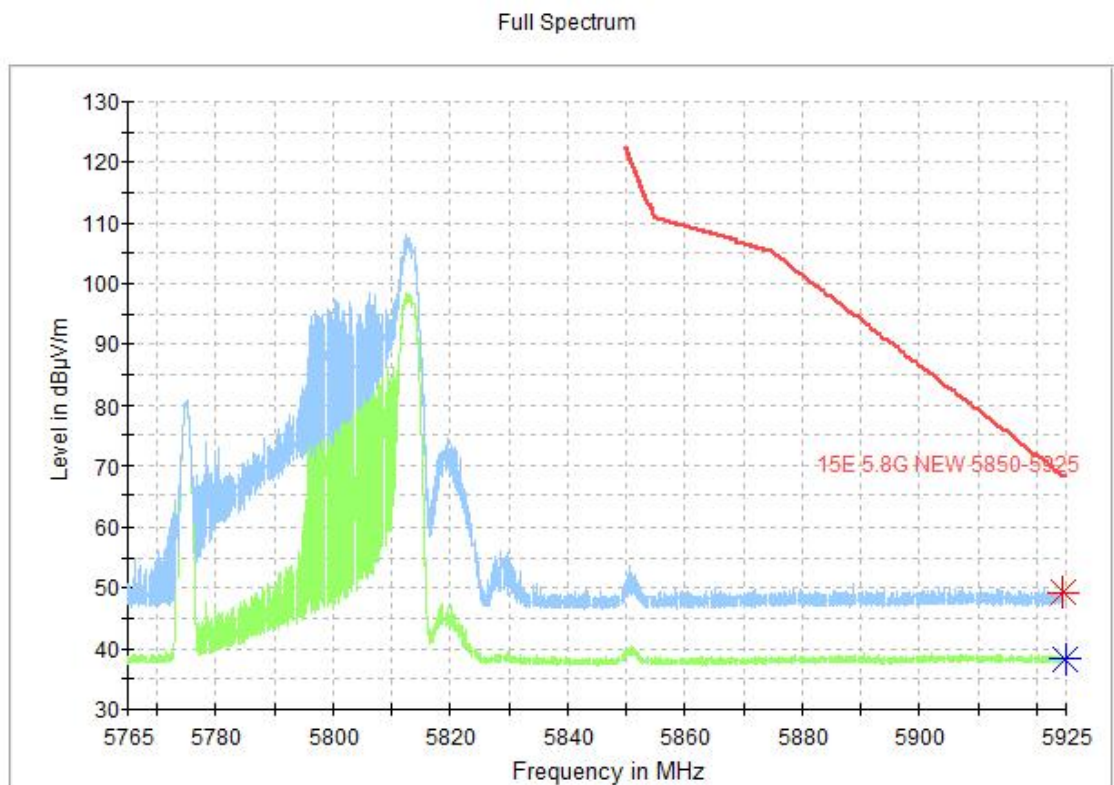


Fig. 24 Band Edges (802.11ax-HT80 partial RU26 Ch155, 5775MHz)

A.7. AC Powerline Conducted Emission

Test Condition:

Voltage (V)	Frequency (Hz)
120	60

Measurement uncertainty:

Expanded measurement uncertainty for this test item is U =3.2dB, k=2.

Measurement Result and limit:

WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Result (dB μ V)		Conclusion
		With charger AE2-1		
		802.11a	Idle	
0.15 to 0.5	66 to 56	Fig.25	Fig.26	P
0.5 to 5	56			
5 to 30	60			

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

WLAN (Average Limit)

Frequency range (MHz)	Average Limit (dB μ V)	Result (dB μ V)		Conclusion
		With charger AE2-1		
		802.11a	Idle	
0.15 to 0.5	56 to 46	Fig.25	Fig.26	P
0.5 to 5	46			
5 to 30	50			

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Result (dB μ V)		Conclusion
		With charger AE2-2		
		802.11a	Idle	
0.15 to 0.5	67 to 56	Fig.27	/	P
0.5 to 5	56			
5 to 30	60			

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

WLAN (Average Limit)

Frequency range (MHz)	Average Limit (dB μ V)	Result (dB μ V)		Conclusion
		With charger AE2-2		
		802.11a	Idle	
0.15 to 0.5	56 to 46	Fig.27	/	P
0.5 to 5	46			
5 to 30	50			

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

The measurement is made according to ANSI C63.10 .

Conclusion: PASS

Test graphs as below:

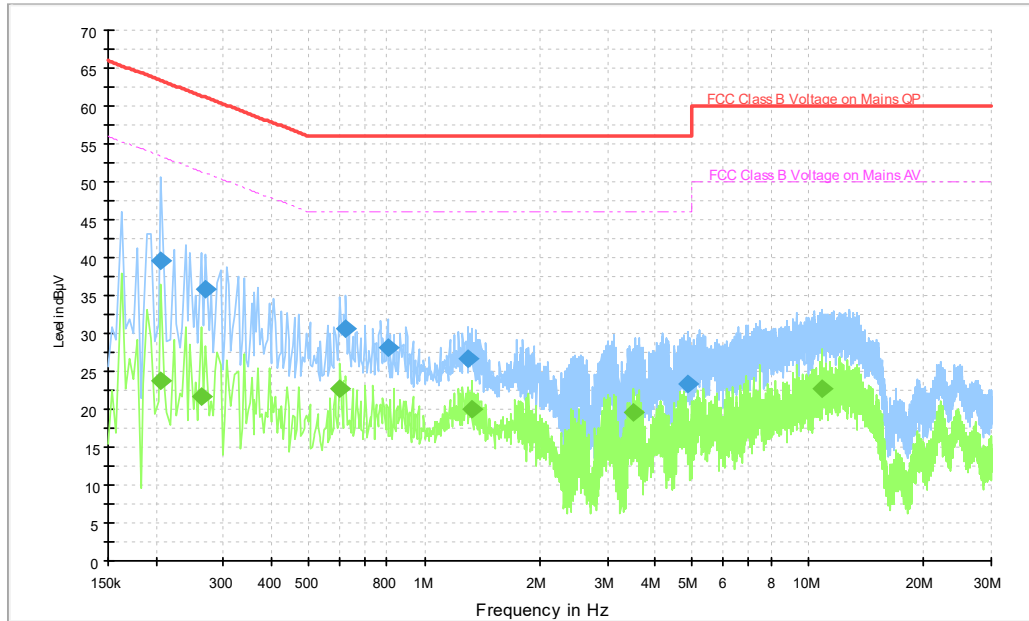


Fig. 25 AC Powerline Conducted Emission-802.11a(AE2-1)

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.206000	39.5	2000.	9.000	On	N	19.7	23.9	63.4
0.270000	35.9	2000.	9.000	On	N	19.7	25.2	61.1
0.626000	30.7	2000.	9.000	On	L1	19.7	25.3	56.0
0.802000	28.1	2000.	9.000	On	N	19.6	27.9	56.0
1.298000	26.7	2000.	9.000	On	N	19.6	29.3	56.0
4.838000	23.3	2000.	9.000	On	N	19.6	32.7	56.0

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.206000	23.8	2000.	9.000	On	N	19.7	29.6	53.4
0.262000	21.6	2000.	9.000	On	L1	19.7	29.8	51.4
0.602000	22.7	2000.	9.000	On	N	19.7	23.3	46.0
1.330000	19.9	2000.	9.000	On	N	19.6	26.1	46.0
3.518000	19.5	2000.	9.000	On	N	19.6	26.5	46.0
10.910000	22.8	2000.	9.000	On	L1	19.8	27.2	50.0

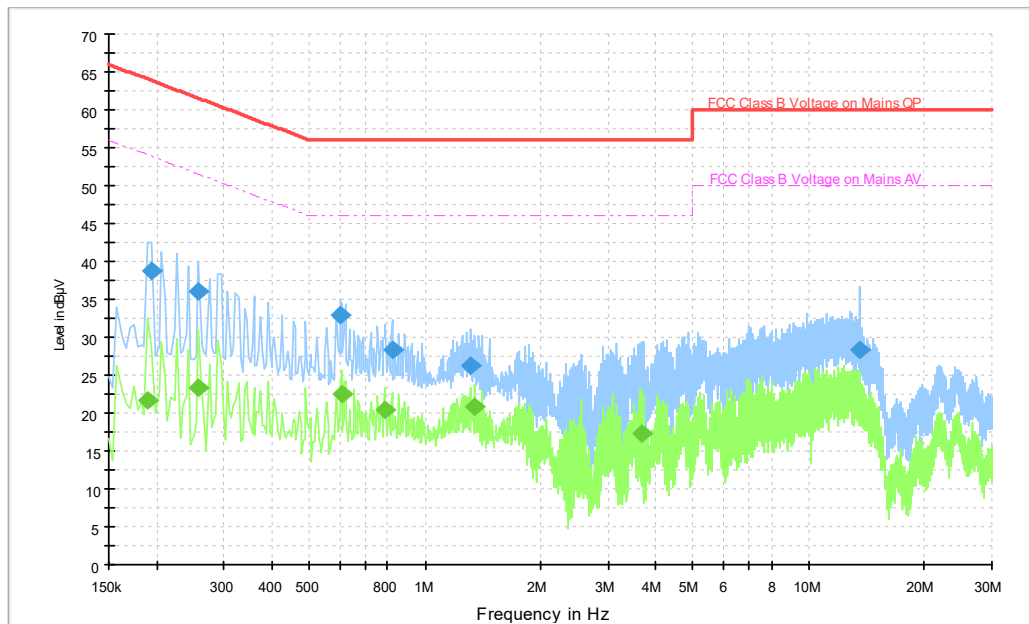


Fig. 26 AC Powerline Conducted Emission-Idle(AE2-1)

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.194000	38.8	2000.	9.000	On	N	19.7	25.1	63.9
0.258000	36.0	2000.	9.000	On	N	19.7	25.5	61.5
0.602000	32.8	2000.	9.000	On	N	19.7	23.2	56.0
0.822000	28.3	2000.	9.000	On	N	19.6	27.7	56.0
1.318000	26.3	2000.	9.000	On	N	19.6	29.7	56.0
13.522000	28.4	2000.	9.000	On	L1	19.7	31.6	60.0

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.190000	21.7	2000.	9.000	On	L1	19.7	32.4	54.0
0.258000	23.4	2000.	9.000	On	N	19.7	28.1	51.5
0.606000	22.5	2000.	9.000	On	N	19.7	23.5	46.0
0.786000	20.4	2000.	9.000	On	N	19.7	25.6	46.0
1.350000	20.8	2000.	9.000	On	N	19.6	25.2	46.0
3.670000	17.4	2000.	9.000	On	N	19.6	28.6	46.0

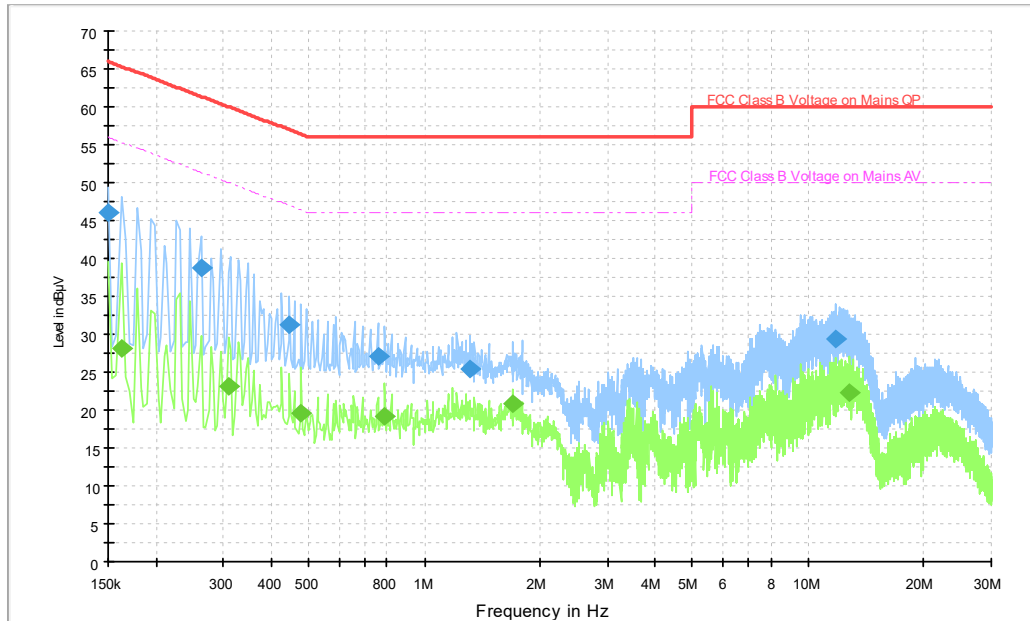


Fig. 27 AC Powerline Conducted Emission-802.11a(AE2-2)

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	46.1	2000.	9.000	On	L1	19.9	19.9	66.0
0.262000	38.7	2000.	9.000	On	N	19.7	22.6	61.4
0.446000	31.2	2000.	9.000	On	L1	19.7	25.7	56.9
0.758000	27.1	2000.	9.000	On	N	19.7	28.9	56.0
1.318000	25.3	2000.	9.000	On	N	19.6	30.7	56.0
11.730000	29.5	2000.	9.000	On	L1	19.8	30.5	60.0

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.162000	28.2	2000.	9.000	On	N	19.7	27.1	55.4
0.310000	23.1	2000.	9.000	On	N	19.7	26.9	50.0
0.478000	19.6	2000.	9.000	On	L1	19.7	26.7	46.4
0.790000	19.2	2000.	9.000	On	N	19.7	26.8	46.0
1.698000	20.8	2000.	9.000	On	N	19.6	25.2	46.0
12.870000	22.4	2000.	9.000	On	L1	19.8	27.6	50.0

A.8. Antenna Requirement

The antenna of the device is permanently attached. There are no provisions for connection to an external antenna.

The unit complies with the requirement of FCC Part 15.203.

ANNEX B: EUT parameters

Disclaimer: The antenna gain and worse case provided by the client may affect the validity of the measurement results in this report, and the client shall bear the impact and consequences arising therefrom.

ANNEX C: Accreditation Certificate



Accredited Laboratory

A2LA has accredited

TELECOMMUNICATION TECHNOLOGY LABS, CAICT
Beijing, People's Republic of China

for technical competence in the field of
Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 26th day of June 2023.



Mr. Trace McInturf, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 7049.01
Valid to July 31, 2024

For the tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.

***** END OF REPORT BODY *****