



FCC PART 15E TEST REPORT No.25T04Z100363-009

for

Luxshare Precision Limited

5G Mobile Phone

TMRV08P5G

FCC ID: 2BNRMTMRV08P5G

with

Hardware Version: v1.0

Software Version: TMRV08P5G_0.02.01

Issued Date: 2025-05-30

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:

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
25T04Z100363-009	Rev.0	1st edition	2025-05-30

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(Gaolizhang Road)

Address: Cuihu Cloud Center, No.1, Gaolizhang Road, Wenquan,
Haidian District, Beijing, China

Radiated testing Location: CTTL(huayuan North Road)

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

1.3. TestingEnvironment

Normal Temperature: 15-35°C

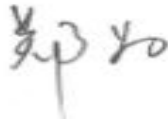
Relative Humidity: 20-75%

1.4. Project date

Testing Start Date: 2025-03-31
Testing End Date: 2025-04-23

1.5. Signature

Dong Jiaxuan
(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: Luxshare Precision Limited
Address: Suite 1621, 16/F., Ocean Centre, Harbour City, 5 Canton Road, Tsim Sha Tsui, Kowloon.
Contact: Ri Sa
Email: Rui.Sha@luxshare-ict.com
Telephone: +8613917939276
Fax: /

2.2. Manufacturer Information

Company Name: Luxshare Precision Limited
Address: Suite 1621, 16/F., Ocean Centre, Harbour City, 5 Canton Road, Tsim Sha Tsui, Kowloon.
Contact: Ri Sa
Email: Rui.Sha@luxshare-ict.com
Telephone: +8613917939276
Fax: /

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

3.1. About EUT

Description	5G Mobile Phone
Model name	TMRV08P5G
FCC ID	2BNRMTMRV08P5G
WLAN Frequency Band	ISM Band: 5725MHz~5850MHz
Type of modulation	OFDM
Nominal Voltage	3.87V

3.2. Internal Identification of EUT used during the test

EUT ID*	IMEI	HW Version	SW Version	Date of receipt
UT27a	861370070001529/ 861370070001537	V1.0	TMRV08P5G_0.02.01	2025-03-28
UT84a	861370070020602/ 861370070020610	V1.0	TMRV08P5G_0.02.01	2025-03-28

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

UT27a is used for Conduction test, UT84a is used for Radiation test.

3.3. Internal Identification of AE used during the test

AE ID*	Description	Note	Manufacturer
AE1	Battery	TM002	Jiade Energy Technology(Zhuhai) Co.,Ltd.
AE2	Charger	/	/
AE3	USB cable	HX-WT-58	WASHIN

*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 5G 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 Part15	FCC CFR 47, Part 15, Subpart C and E:	
	15.205 Restricted bands of operation;	2021
	15.209 Radiated emission limits, general requirements;	
	15.407 General technical requirements	
ANSI C63.10	Methods of Measurement of Radio-Noise Emissions from	
	Low-Voltage Electrical and Electronic Equipment in the	2013
	Range of 9 kHz to 40 GHz	
UNII: KDB 789033	General U-NII Test Procedures New Rules v02r01	2017-12
D02		

Note: UNII: KDB 789033 D02 is not in the scope of ISO/IEC 17025 accreditation by A2LA.

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. 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.

6.3. 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	3.87V
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	2025-08-11
2	Vector Signal Analyzer	FSW67	104051	Rohde & Schwarz	1 year	2025-04-30
3	LISN	ENV216	101200	Rohde & Schwarz	2 years	2026-05-16
4	Test Receiver	ESCI	100344	Rohde & Schwarz	2 years	2026-04-01
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	103023	R&S	1 year	2025-06-06
2	EMI Antenna	VULB 9163	01222	SCHWARZBECK	1 year	2025-09-11
3	EMI Antenna	3115	00167250	ETS-Lindgren	2 years	2026-04-11
4	EMI Antenna	3116	2663	ETS-Lindgren	1 year	2026-03-03

Test software information(HL)		
Test Item	Software	Manufacturer
AC Powerline Conducted Emission	EMC32 V8.53.0	R&S
Radiated Unwanted Emission	EMC32 V11.50.00	R&S

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	/
$30\text{MHz} \leq f \leq 1\text{GHz}$	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

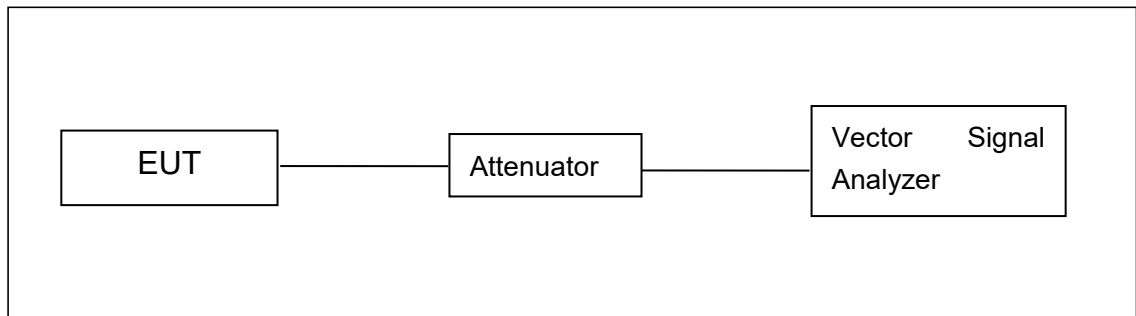
Measurement Uncertainty : 3.08dB,k=2

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

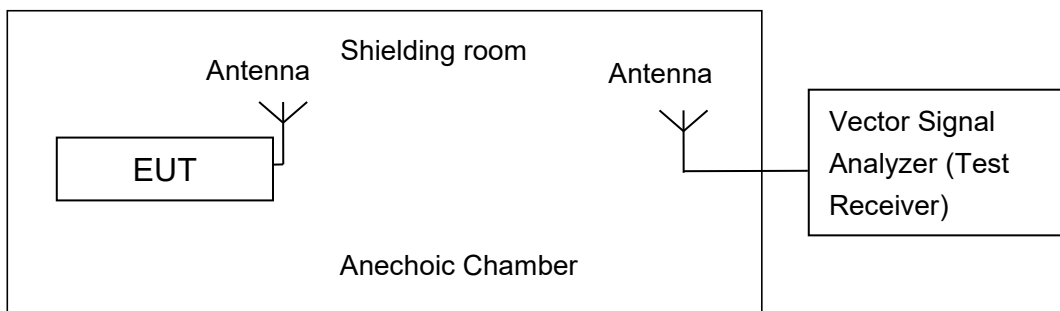


A.1.2. Radiated Emission Measurements

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 $\geq$ 3 MHz.

Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$.

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 -7.81dBi/-9.75dBi(Ant7/Ant9) and the value is supplied by the applicant or manufacturer.

A.2.2. Maximum Average Output Power-Conducted

EUT ID: UT27a

Measurement Results:

Full RU Mode

Mode	Data Rate (Index)	Test Result (dBm)					
		5745MHz(Ch149)		5785MHz(Ch157)		5825MHz(Ch165)	
		Ant7	Ant9	Ant7	Ant9	Ant7	Ant9
802.11a	6Mbps	18.87	17.36	18.76	17.32	18.57	17.15

Mode	Data Rate (Index)	Test Result (dBm)								
		5745MHz(Ch149)			5785MHz(Ch157)			5825MHz(Ch165)		
		Ant7	Ant9	MIMO	Ant7	Ant9	MIMO	Ant7	Ant9	MIMO
802.11n-HT20	MCS0	17.50	17.15	20.34	17.28	17.05	20.18	17.07	16.83	19.96
802.11ac-VHT20	MCS0	17.39	16.97	20.20	17.20	16.97	20.10	17.02	16.76	19.90
802.11ax-HE20	MCS0	17.57	17.16	20.38	17.43	17.16	20.31	17.23	16.94	20.10

Mode	Data Rate (Index)	Test Result (dBm)					
		5755MHz(Ch151)			5795MHz(Ch159)		
		Ant7	Ant9	MIMO	Ant7	Ant9	MIMO
802.11n-HT40	MCS0	17.99	17.46	20.74	17.67	17.23	20.47
802.11ac-VHT40	MCS0	18.00	17.44	20.74	17.63	17.22	20.44
802.11ax-HE40	MCS0	17.57	16.98	20.30	17.27	16.82	20.06

Mode	Data Rate (Index)	Test Result (dBm)		
		5775MHz(Ch155)		
		Ant7	Ant9	MIMO
802.11ac-VHT80	MCS0	15.97	15.51	18.76
802.11ax-HE80	MCS0	15.87	15.42	18.66

RU Mode

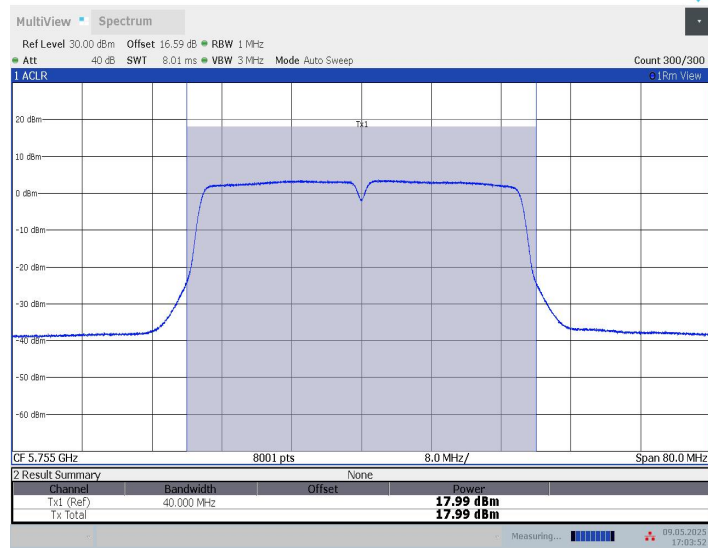
Mode	RU index	Test Result (dBm)								
		5745MHz(Ch149)			5785MHz(Ch157)			5825MHz(Ch165)		
		Ant7	Ant9	MIMO	Ant7	Ant9	MIMO	Ant7	Ant9	MIMO
802.11ax-HE20	RU26 left	10.58	9.04	12.89	10.39	9.08	12.79	10.14	9.03	12.63
	RU26 right	10.29	9.21	12.79	10.19	9.34	12.80	10.05	9.09	12.61
	RU52 left	13.40	12.12	15.82	13.19	12.05	15.67	13.10	12.08	15.63
	RU52 right	13.13	12.32	15.75	12.95	12.27	15.63	12.94	12.06	15.53
	RU106 left	15.06	14.45	17.78	14.99	14.34	17.69	14.77	14.26	17.53
	RU106 right	15.06	14.46	17.78	14.91	14.34	17.64	14.76	14.20	17.50

The data rate 6Mbps (11a mode), MCS0 (11n-HT20 mode), MCS0 (11n-HT40 mode), MCS0 (11ac-VHT20 mode), MCS0 (11ac-VHT40 mode), MCS0 (11ac-VHT80 mode), MCS0 (11ax-HE20 mode), MCS0 (11ax-HE40 mode), MCS0 (11ax-HE80 mode), MCS0 (11be-EHT20 mode), MCS0 (11be-EHT40 mode), MCS0 (11be-EHT80 mode) are selected as the worst condition; as the maximum power is got with these data rate. The following cases are performed with this condition.

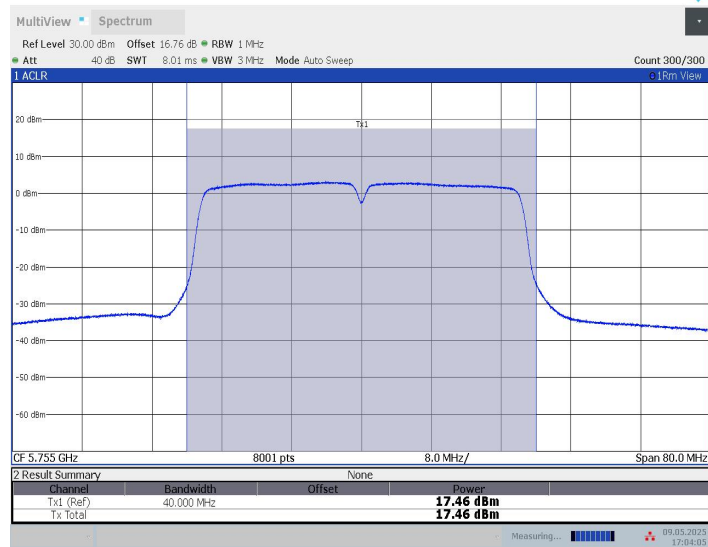
The duty cycle of all mode are >98%

Maximum output Power:

11N40MIMO_Ant7_5755



11N40MIMO_Ant9_5755



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 $\geq$ 3 MHz.

Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$.

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: UT27a

Measurement Results:

TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant7	5745	5.49	≤ 30.00	PASS
	Ant9	5745	3.17	≤ 30.00	PASS
	Ant7	5785	5.42	≤ 30.00	PASS
	Ant9	5785	3.34	≤ 30.00	PASS
	Ant7	5825	4.99	≤ 30.00	PASS
	Ant9	5825	3.19	≤ 30.00	PASS
11N40MIMO	Ant7	5755	1.03	≤ 30.00	PASS
	Ant9	5755	0.41	≤ 30.00	PASS
	total	5755	3.74	≤ 30.00	PASS
	Ant7	5795	0.73	≤ 30.00	PASS
	Ant9	5795	0.21	≤ 30.00	PASS
	total	5795	3.49	≤ 30.00	PASS
11AC80MIMO	Ant7	5775	-3.87	≤ 30.00	PASS
	Ant9	5775	-4.50	≤ 30.00	PASS
	total	5775	-1.16	≤ 30.00	PASS
11AX20MIMO	Ant7	5745	3.42	≤ 30.00	PASS
	Ant9	5745	2.96	≤ 30.00	PASS
	total	5745	6.21	≤ 30.00	PASS
	Ant7	5785	3.37	≤ 30.00	PASS
	Ant9	5785	2.72	≤ 30.00	PASS

	total	5785	6.07	≤30.00	PASS
	Ant7	5825	3.18	≤30.00	PASS
	Ant9	5825	2.57	≤30.00	PASS
	total	5825	5.90	≤30.00	PASS

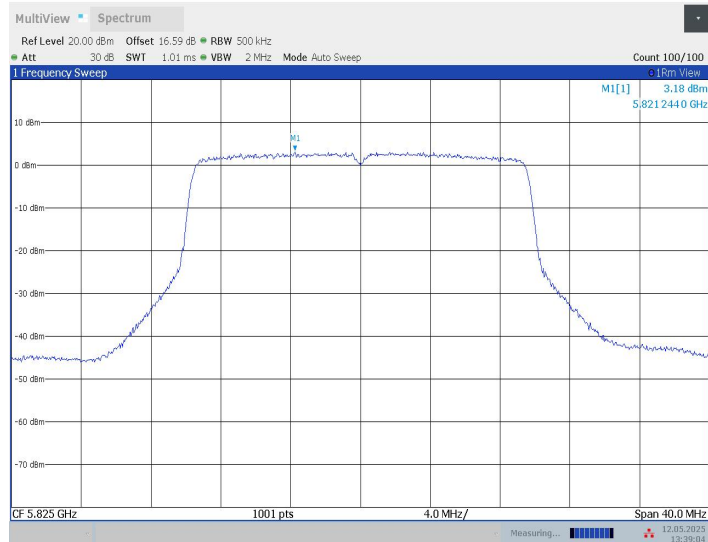
RU Mode

Test Mode	Antenna	Frequency[MHz]	Ru Size	Ru Index	Result [dBm/MHz]	Limit [dBm/MHz]	Verdict
	Ant7	5745	26Tone	RU0	5.19	≤30.00	PASS
				RU8	4.85	≤30.00	PASS
			52Tone	RU37	5.39	≤30.00	PASS
				RU40	4.74	≤30.00	PASS
			106Tone	RU53	4.18	≤30.00	PASS
				RU54	3.92	≤30.00	PASS
	Ant9	5745	26Tone	RU0	3.63	≤30.00	PASS
				RU8	3.94	≤30.00	PASS
			52Tone	RU37	3.84	≤30.00	PASS
				RU40	3.87	≤30.00	PASS
			106Tone	RU53	3.42	≤30.00	PASS
				RU54	3.50	≤30.00	PASS
	total	5745	26Tone	RU0	7.49	≤30.00	PASS
				RU8	7.43	≤30.00	PASS
			52Tone	RU37	7.69	≤30.00	PASS
				RU40	7.34	≤30.00	PASS
			106Tone	RU53	6.83	≤30.00	PASS
				RU54	6.73	≤30.00	PASS
	Ant7	5785	26Tone	RU0	5.03	≤30.00	PASS
				RU8	4.83	≤30.00	PASS
			52Tone	RU37	5.07	≤30.00	PASS
				RU40	4.74	≤30.00	PASS
			106Tone	RU53	3.97	≤30.00	PASS
				RU54	3.64	≤30.00	PASS
	Ant9	5785	26Tone	RU0	3.65	≤30.00	PASS
				RU8	3.79	≤30.00	PASS
			52Tone	RU37	3.86	≤30.00	PASS
				RU40	4.06	≤30.00	PASS
			106Tone	RU53	3.09	≤30.00	PASS
				RU54	3.16	≤30.00	PASS
	total	5785	26Tone	RU0	7.40	≤30.00	PASS
				RU8	7.35	≤30.00	PASS
			52Tone	RU37	7.52	≤30.00	PASS
				RU40	7.42	≤30.00	PASS

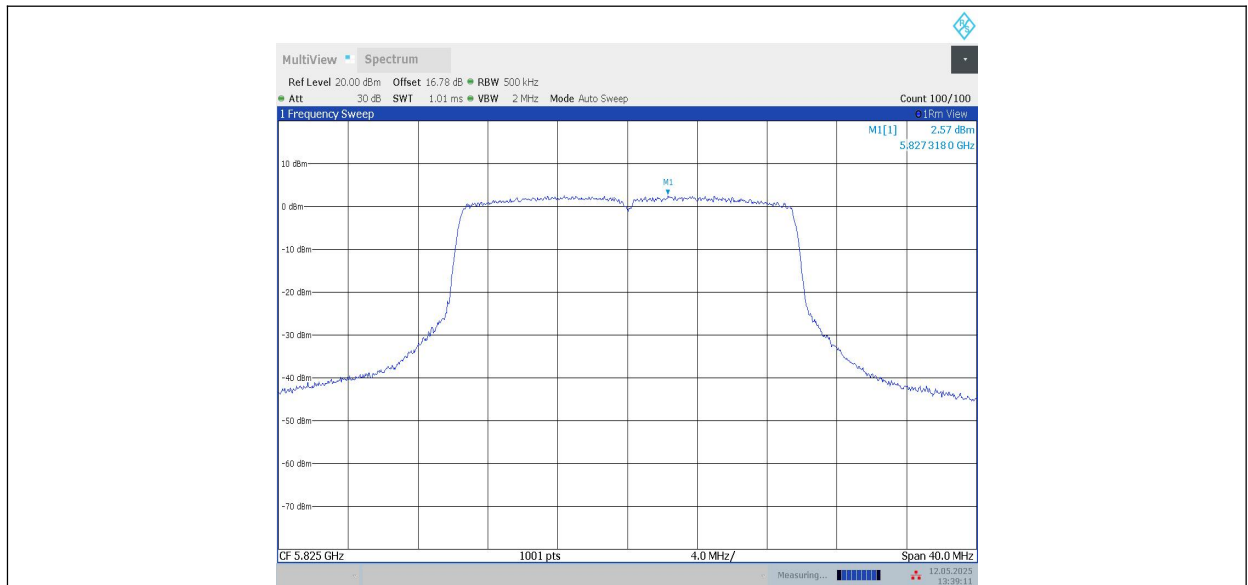
	Ant7	5825	106Tone	RU53	6.56	≤ 30.00	PASS
				RU54	6.42	≤ 30.00	PASS
			26Tone	RU0	4.89	≤ 30.00	PASS
				RU8	4.81	≤ 30.00	PASS
			52Tone	RU37	4.94	≤ 30.00	PASS
				RU40	4.73	≤ 30.00	PASS
	Ant9	5825	106Tone	RU53	3.62	≤ 30.00	PASS
				RU54	3.72	≤ 30.00	PASS
			26Tone	RU0	3.54	≤ 30.00	PASS
				RU8	3.72	≤ 30.00	PASS
			52Tone	RU37	3.77	≤ 30.00	PASS
				RU40	3.82	≤ 30.00	PASS
	total	5825	106Tone	RU53	3.04	≤ 30.00	PASS
				RU54	3.18	≤ 30.00	PASS
			26Tone	RU0	7.28	≤ 30.00	PASS
				RU8	7.31	≤ 30.00	PASS
			52Tone	RU37	7.40	≤ 30.00	PASS
				RU40	7.31	≤ 30.00	PASS
			106Tone	RU53	6.35	≤ 30.00	PASS
				RU54	6.47	≤ 30.00	PASS

Peak Power Spectral Density:

11AX20MIMO_Ant7_5825



11AX20MIMO_Ant9_5825



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) $\geq 3 \times$ 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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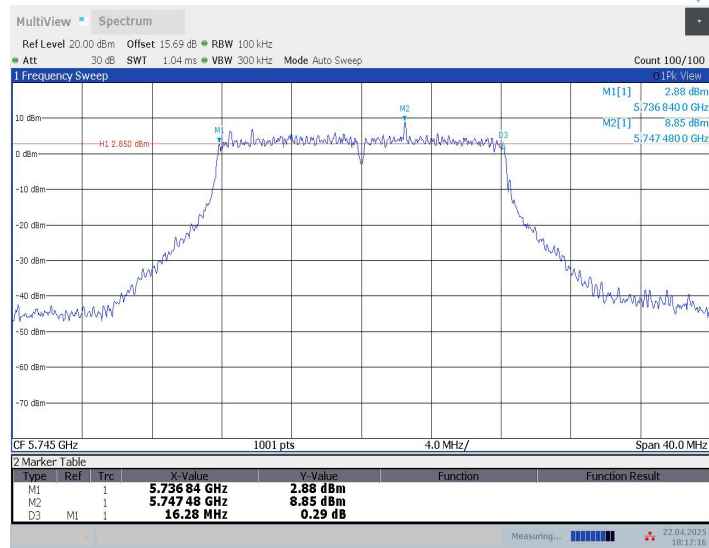
EUT ID: EUT27a

Measurement Result:

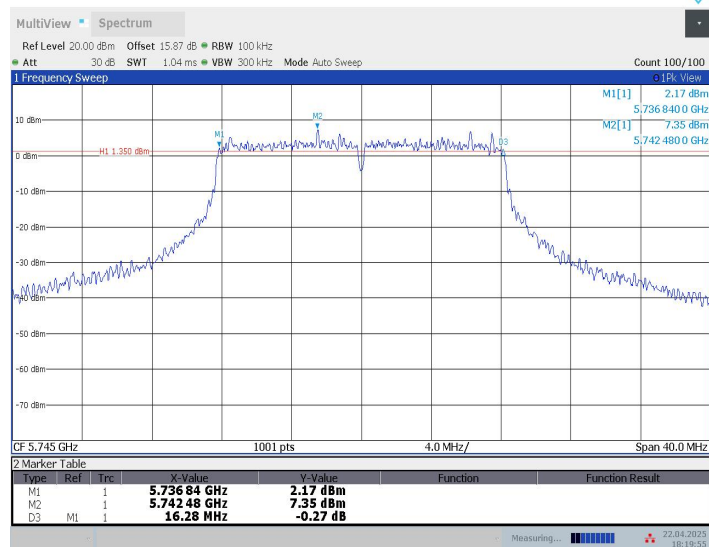
TestMode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant7	5745	16.28	5736.84	5753.12	0.5	PASS
	Ant9	5745	16.28	5736.84	5753.12	0.5	PASS
	Ant7	5785	16.36	5776.80	5793.16	0.5	PASS
	Ant9	5785	16.28	5776.84	5793.12	0.5	PASS
	Ant7	5825	16.36	5816.80	5833.16	0.5	PASS
	Ant9	5825	15.92	5816.84	5832.76	0.5	PASS
11N40MIMO	Ant7	5755	36.40	5736.76	5773.16	0.5	PASS
	Ant9	5755	36.32	5736.84	5773.16	0.5	PASS
	Ant7	5795	36.40	5776.76	5813.16	0.5	PASS
	Ant9	5795	36.32	5776.84	5813.16	0.5	PASS
11AC80MIMO	Ant7	5775	75.20	5737.40	5812.60	0.5	PASS
	Ant9	5775	73.92	5738.68	5812.60	0.5	PASS
11AX20MIMO	Ant7	5745	18.84	5735.56	5754.40	0.5	PASS
	Ant9	5745	18.00	5735.88	5753.88	0.5	PASS
	Ant7	5785	18.96	5775.52	5794.48	0.5	PASS
	Ant9	5785	16.20	5777.36	5793.56	0.5	PASS
	Ant7	5825	17.96	5815.80	5833.76	0.5	PASS
	Ant9	5825	18.16	5816.08	5834.24	0.5	PASS

Test graphs as below:

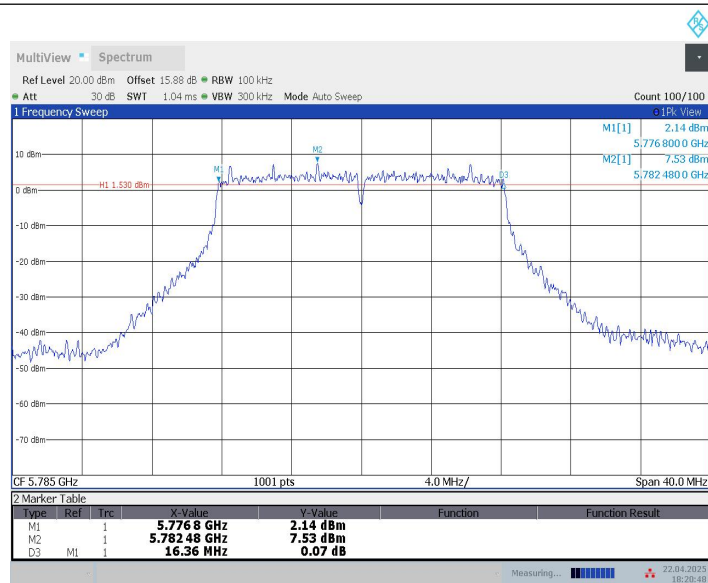
11A_Ant7_5745



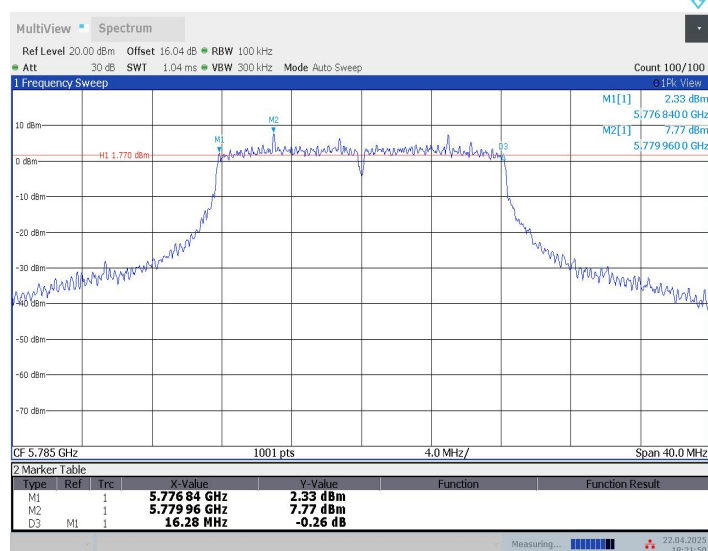
11A_Ant9_5745



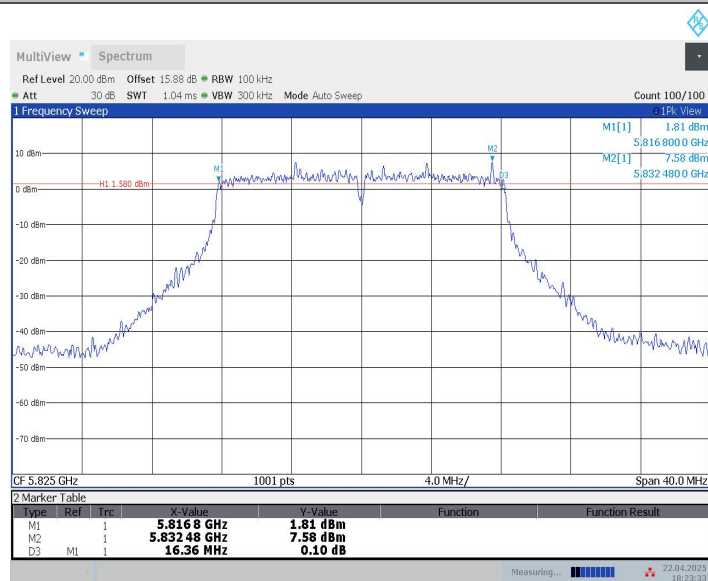
11A_Ant7_5785



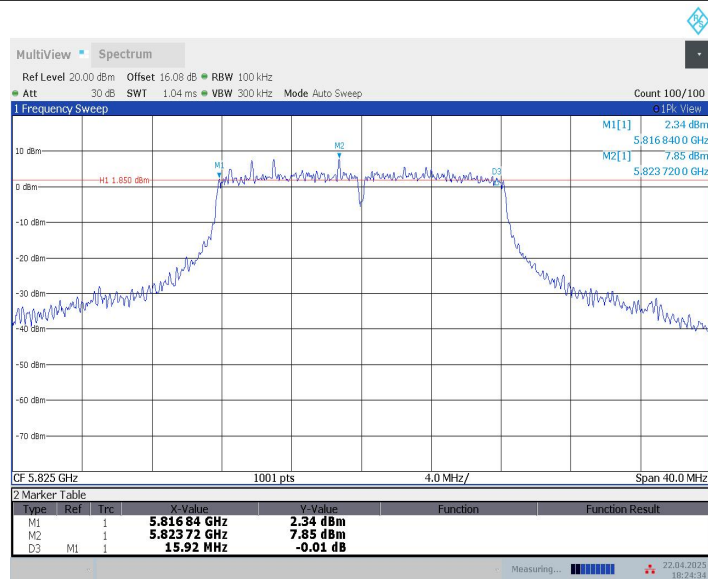
11A_Ant9_5785



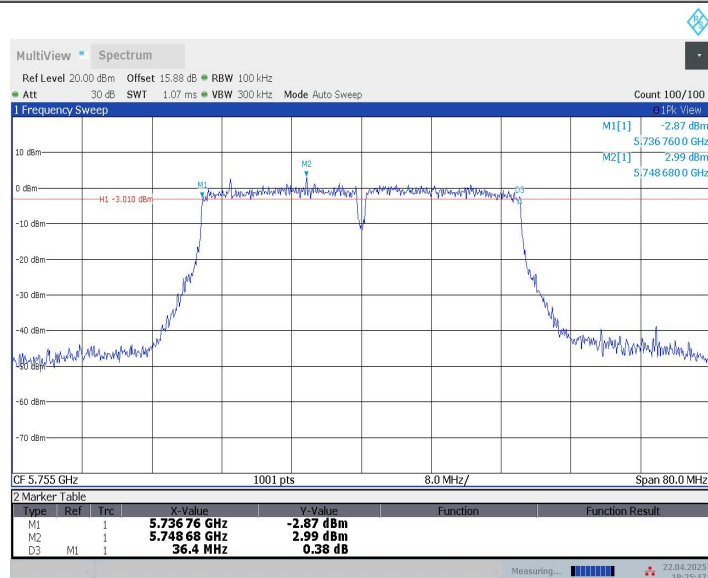
11A_Ant7_5825



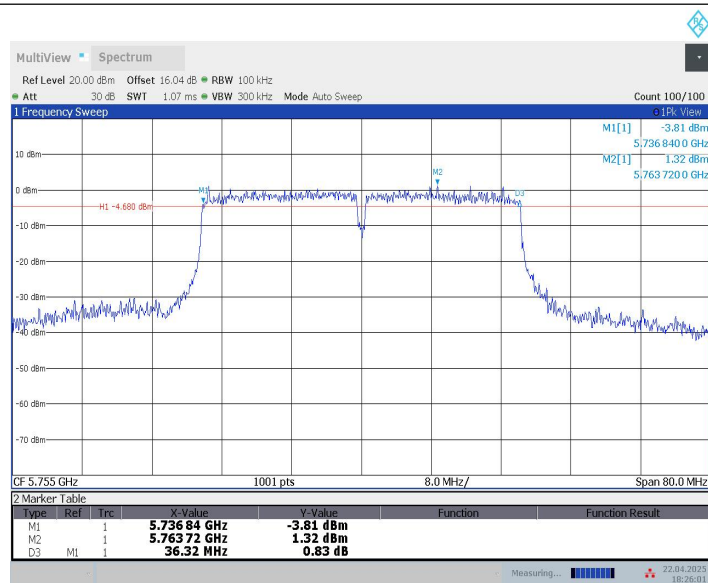
11A_Ant9_5825



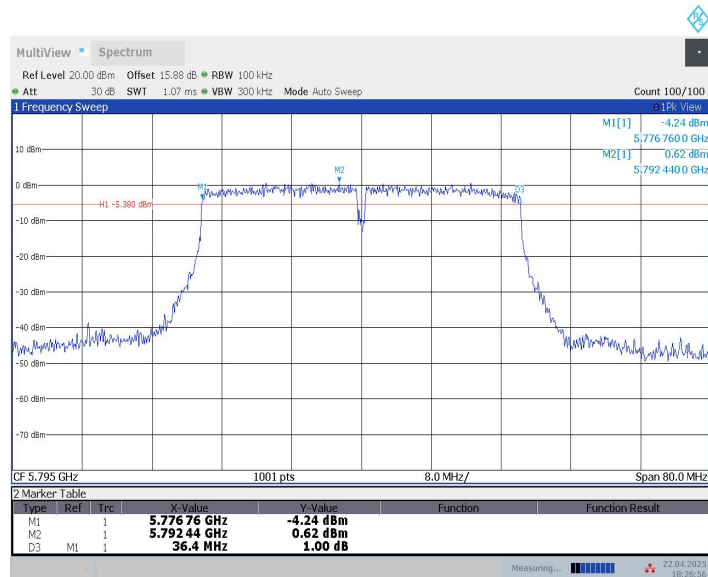
11N40MIMO_Ant7_5755



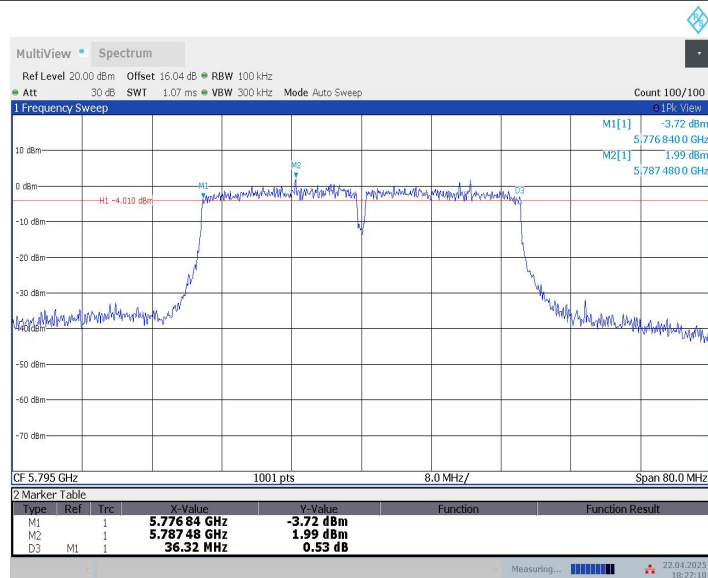
11N40MIMO_Ant9_5755



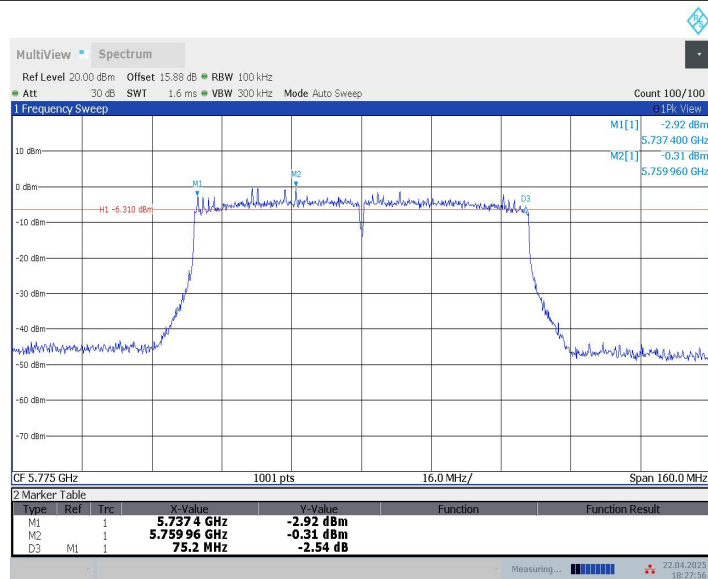
11N40MIMO_Ant7_5795



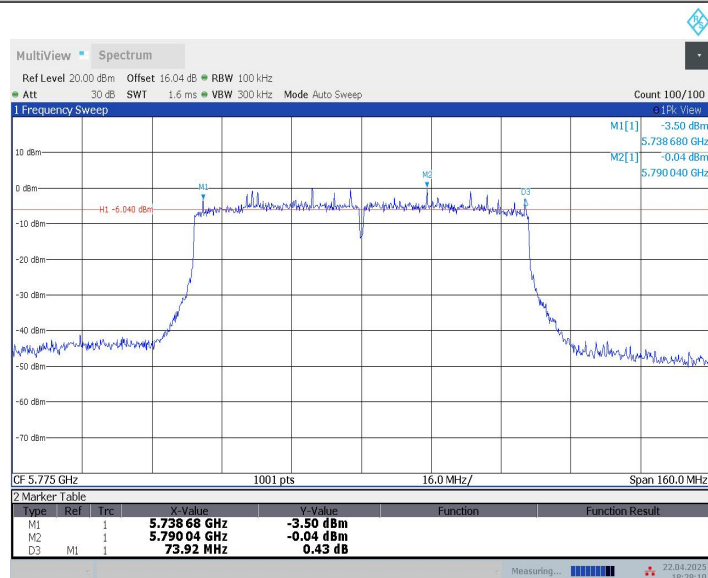
11N40MIMO_Ant9_5795



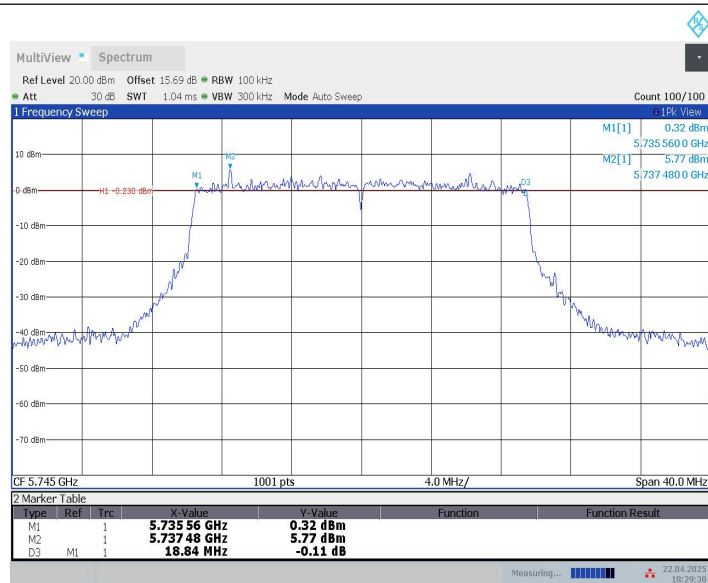
11AC80MIMO_Ant7_5775



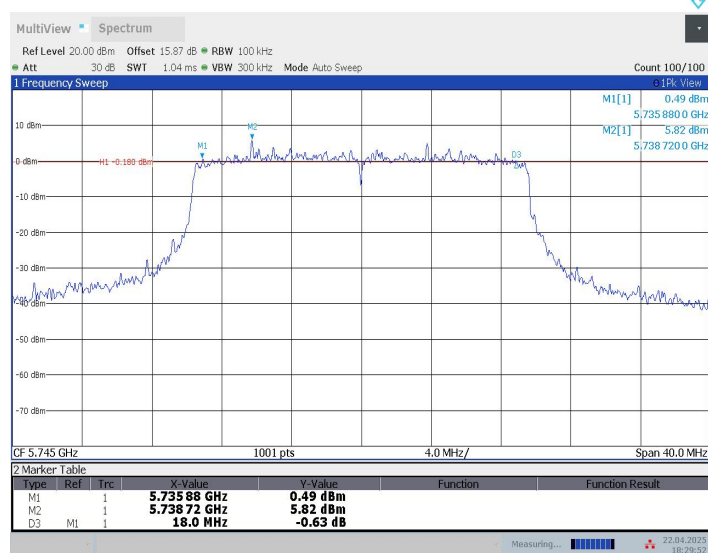
11AC80MIMO_Ant9_5775



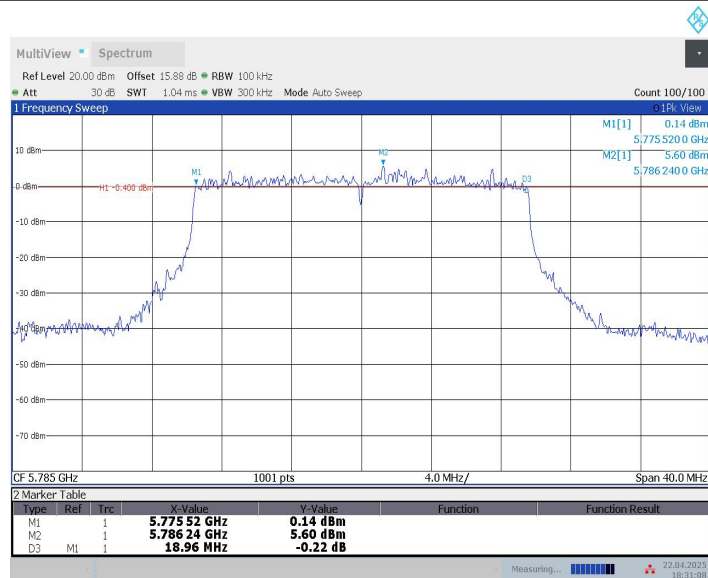
11AX20MIMO_Ant7_5745



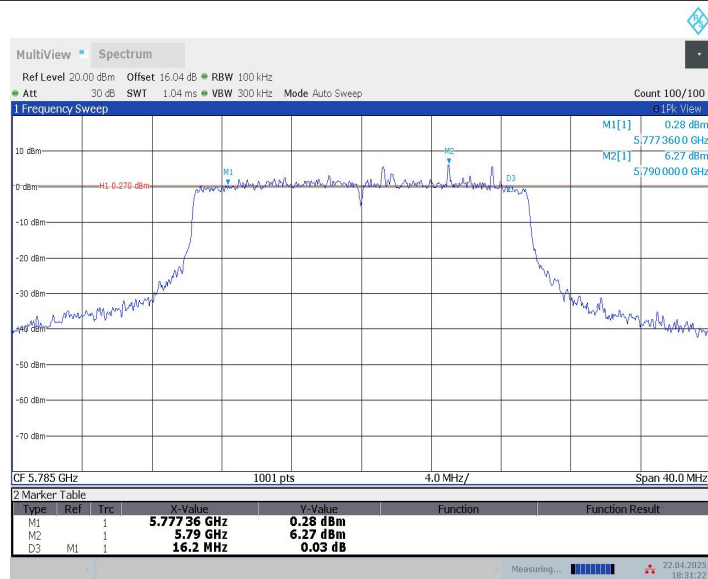
11AX20MIMO_Ant9_5745



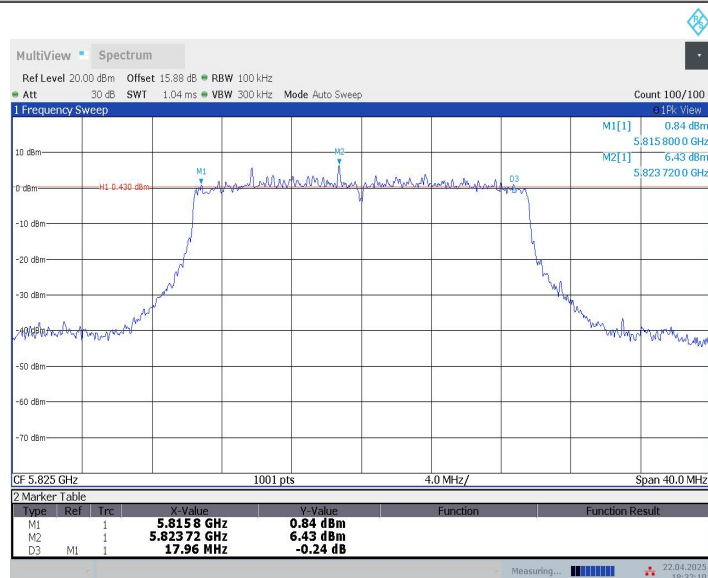
11AX20MIMO_Ant7_5785



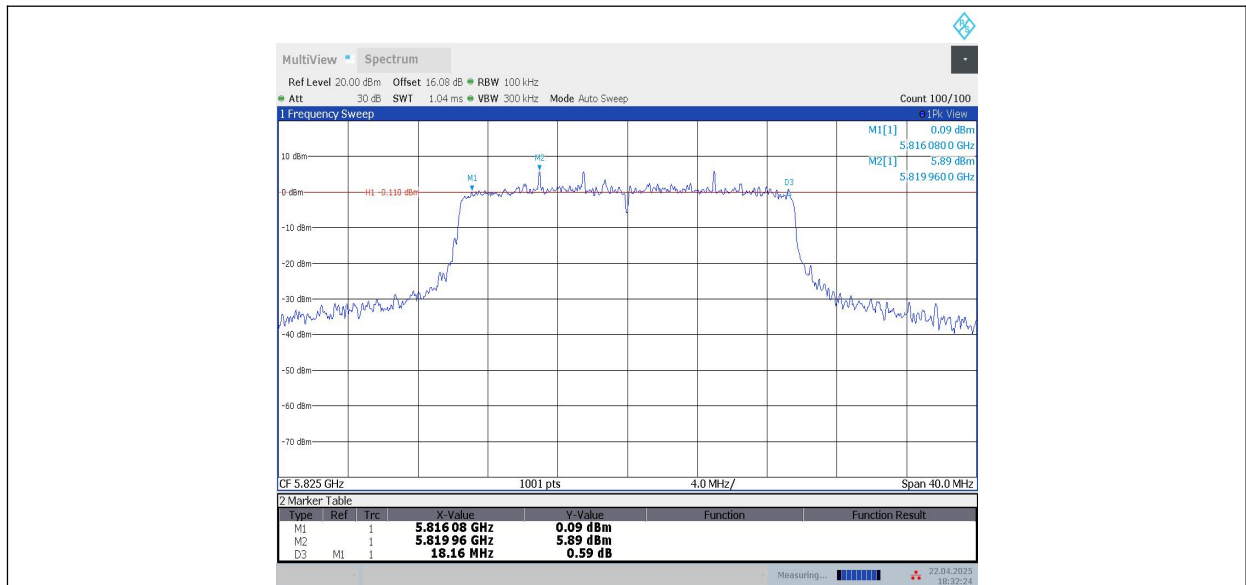
11AX20MIMO_Ant9_5785



11AX20MIMO_Ant7_5825



11AX20MIMO_Ant9_5825



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

802.11a
FULL RB
Average Results:

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)
17918.600	42.37	-25.55	42.30	25.62	54.00	11.63	H
17930.700	42.35	-25.55	42.30	25.60	54.00	11.65	V
11489.100	37.59	-32.13	38.80	30.92	54.00	16.41	V
11490.200	37.59	-32.13	38.80	30.92	54.00	16.41	V
13255.700	37.32	-29.75	40.20	26.87	54.00	16.68	V
13267.800	37.23	-29.75	40.30	26.68	54.00	16.77	V

802.11a
FULL RB
Average Results:

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)
17923.000	42.46	-25.55	42.30	25.71	54.00	11.54	V
17911.450	42.12	-25.55	42.30	25.37	54.00	11.88	V
13262.300	37.36	-29.75	40.20	26.91	54.00	16.64	V
13277.150	37.24	-29.75	40.30	26.69	54.00	16.76	H
11648.050	37.04	-31.77	38.90	29.91	54.00	16.96	V
11647.500	36.99	-31.77	38.90	29.86	54.00	17.01	V

802.11n-HT20
FULL RB
Average Results:

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)
17930.700	45.48	-25.55	42.30	28.73	54.00	8.52	H
17902.100	45.40	-25.55	42.30	28.65	54.00	8.60	H
13264.500	39.56	-29.75	40.20	29.11	54.00	14.44	V
13271.100	39.43	-29.75	40.30	28.88	54.00	14.57	H
11874.650	37.36	-31.75	38.90	30.21	54.00	16.64	H
11838.900	37.13	-31.75	38.90	29.98	54.00	16.87	V

802.11n-HT20
FULL RB
Average Results:

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)
17957.100	45.29	-25.55	42.30	28.54	54.00	8.71	H
17928.500	45.28	-25.55	42.30	28.53	54.00	8.72	V
14499.800	39.14	-28.78	40.00	27.92	54.00	14.86	H
14498.150	39.07	-28.78	40.00	27.85	54.00	14.93	H
11869.150	37.32	-31.75	38.90	30.17	54.00	16.68	V
11847.700	37.30	-31.75	38.90	30.15	54.00	16.70	V

802.11n-HT40
FULL RB
Average Results:

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)
17914.200	45.19	-25.55	42.30	28.44	54.00	8.81	V
17912.550	45.13	-25.55	42.30	28.38	54.00	8.87	H
13256.800	39.14	-29.75	40.20	28.69	54.00	14.86	H
13277.700	39.14	-29.75	40.30	28.59	54.00	14.86	V
11536.950	37.39	-32.13	38.80	30.72	54.00	16.61	V
11527.600	37.36	-32.13	38.80	30.69	54.00	16.64	V

802.11n-HT40
FULL RB
Average Results:

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)
17904.850	45.11	-25.55	42.30	28.36	54.00	8.89	H
17908.700	45.06	-25.55	42.30	28.31	54.00	8.94	V
13281.000	39.07	-29.75	40.30	28.52	54.00	14.93	V
14498.700	38.99	-28.78	40.00	27.77	54.00	15.01	H
11607.350	37.97	-31.77	38.90	30.84	54.00	16.03	V
11809.200	37.24	-31.84	38.90	30.18	54.00	16.76	V

802.11ac-HT20
FULL RB
Average Results:

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)
17891.100	45.20	-25.55	42.30	28.45	54.00	8.80	V
17913.100	45.20	-25.55	42.30	28.45	54.00	8.80	H
13270.550	39.02	-29.75	40.30	28.47	54.00	14.98	V
14477.800	38.93	-28.78	40.00	27.71	54.00	15.07	H
11486.350	37.89	-32.13	38.80	31.22	54.00	16.11	V
11488.550	37.55	-32.13	38.80	30.88	54.00	16.45	V

802.11ac-HT20
FULL RB
Average Results:

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)
17927.400	45.40	-25.55	42.30	28.65	54.00	8.60	V
17924.100	45.31	-25.55	42.30	28.56	54.00	8.69	H
11649.700	39.24	-31.77	38.90	32.11	54.00	14.76	V
14488.800	39.13	-28.78	40.00	27.91	54.00	14.87	H
13274.400	39.02	-29.75	40.30	28.47	54.00	14.98	H
11649.150	38.54	-31.77	38.90	31.41	54.00	15.46	V

802.11ac-HT40
FULL RB
Average Results:

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)
17925.200	45.24	-25.55	42.30	28.49	54.00	8.76	V
17918.050	45.17	-25.55	42.30	28.42	54.00	8.83	H
14497.600	39.55	-28.78	40.00	28.33	54.00	14.45	H
14498.700	39.11	-28.78	40.00	27.89	54.00	14.89	V
11842.750	37.28	-31.75	38.90	30.13	54.00	16.72	V
11752.550	37.25	-31.84	38.90	30.19	54.00	16.75	H

802.11ac-HT40
FULL RB
Average Results:

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)
17892.750	45.29	-25.55	42.30	28.54	54.00	8.71	V
17927.400	45.28	-25.55	42.30	28.53	54.00	8.72	V
14483.300	39.10	-28.78	40.00	27.88	54.00	14.90	V
13294.200	39.05	-29.75	40.30	28.50	54.00	14.95	H
11828.450	37.41	-31.84	38.90	30.35	54.00	16.59	H
11854.300	37.37	-31.75	38.90	30.22	54.00	16.63	V

802.11ac-HT80
FULL RB
Average Results:

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)
17909.800	45.39	-25.55	42.30	28.64	54.00	8.61	H
17908.150	45.25	-25.55	42.30	28.50	54.00	8.75	V
14494.300	39.11	-28.78	40.00	27.89	54.00	14.89	H
14494.850	39.00	-28.78	40.00	27.78	54.00	15.00	H
11858.700	37.60	-31.75	38.90	30.45	54.00	16.40	H
11874.100	37.54	-31.75	38.90	30.39	54.00	16.46	H

802.11ax-HT20
FULL RB
Average Results:

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)
17917.500	45.30	-25.55	42.30	28.55	54.00	8.70	V
17923.550	45.21	-25.55	42.30	28.46	54.00	8.79	H
13355.800	39.41	-30.08	40.30	29.19	54.00	14.59	V
14473.950	39.30	-28.78	40.00	28.08	54.00	14.70	H
11447.300	38.24	-32.12	38.90	31.46	54.00	15.76	V
11445.650	38.15	-32.12	38.90	31.37	54.00	15.85	V

802.11ax-HT20
FULL RB
Average Results:

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)
17918.050	45.29	-25.55	42.30	28.54	54.00	8.71	V
17930.150	45.24	-25.55	42.30	28.49	54.00	8.76	V
13267.800	39.24	-29.75	40.30	28.69	54.00	14.76	V
13264.500	39.02	-29.75	40.20	28.57	54.00	14.98	H
11654.100	37.68	-31.77	38.90	30.55	54.00	16.32	V
11646.950	37.66	-31.77	38.90	30.53	54.00	16.34	V

802.11ax-HT40
FULL RB
Average Results:

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)
17919.150	45.37	-25.55	42.30	28.62	54.00	8.63	H
17914.750	45.28	-25.55	42.30	28.53	54.00	8.72	H
13260.100	39.13	-29.75	40.20	28.68	54.00	14.87	H
13288.700	39.10	-29.75	40.30	28.55	54.00	14.90	H
11514.950	38.80	-32.13	38.80	32.13	54.00	15.20	V
11515.500	38.59	-32.13	38.80	31.92	54.00	15.41	V

802.11ax-HT40
FULL RB
Average Results:

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)
17921.350	45.17	-25.55	42.30	28.42	54.00	8.83	V
17914.200	45.16	-25.55	42.30	28.41	54.00	8.84	V
14492.650	39.27	-28.78	40.00	28.05	54.00	14.73	H
14491.550	39.16	-28.78	40.00	27.94	54.00	14.84	H
11585.900	38.11	-31.77	38.90	30.98	54.00	15.89	V
11588.100	37.90	-31.77	38.90	30.77	54.00	16.10	V

802.11ax-HT80
FULL RB
Average Results:

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)
17912.550	44.99	-25.55	42.30	28.24	54.00	9.01	H
17908.150	44.90	-25.55	42.30	28.15	54.00	9.10	V
14499.250	39.05	-28.78	40.00	27.83	54.00	14.95	H
14474.500	39.00	-28.78	40.00	27.78	54.00	15.00	V
11345.550	37.77	-32.12	38.90	30.99	54.00	16.23	H
11545.750	37.48	-32.13	38.80	30.81	54.00	16.52	V

802.11a
FULL RB
Peak Results:

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)
17984.600	52.76	-25.55	42.30	36.01	74.00	21.24	H
17412.050	52.35	-26.50	42.10	36.75	68.20	15.85	H
13830.450	49.11	-29.41	40.90	37.62	68.20	19.09	H
13911.300	48.63	-29.33	40.90	37.06	68.20	19.57	H
9165.350	48.09	-33.51	37.90	43.70	74.00	25.91	H
11492.950	47.72	-32.13	38.80	41.05	74.00	26.28	V

802.11a
FULL RB
Peak Results:

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)
17917.500	53.13	-25.55	42.30	36.38	74.00	20.87	H
17949.950	52.81	-25.55	42.30	36.06	74.00	21.19	H
13888.200	48.88	-29.33	40.90	37.31	68.20	19.32	V
13761.700	48.80	-29.41	40.70	37.51	68.20	19.40	H
11652.450	46.44	-31.77	38.90	39.31	74.00	27.56	V
11643.100	46.40	-31.77	38.90	39.27	74.00	27.60	V

802.11n-HT20
FULL RB
Peak Results:

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)
17918.600	56.55	-25.55	42.30	39.80	74.00	17.45	H
17921.350	56.28	-25.55	42.30	39.53	74.00	17.72	V
14169.250	52.09	-28.86	40.40	40.55	68.20	16.11	H
14126.350	51.90	-28.86	40.50	40.26	68.20	16.30	V
11428.600	48.50	-32.12	38.90	41.72	74.00	25.50	V
11760.250	48.44	-31.84	38.90	41.38	74.00	25.56	H

802.11n-HT20
FULL RB
Peak Results:

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)
17918.600	55.95	-25.55	42.30	39.20	74.00	18.05	H
17942.250	55.95	-25.55	42.30	39.20	74.00	18.05	H
14106.550	51.71	-28.98	40.50	40.19	68.20	16.49	H
13763.900	51.54	-29.41	40.90	40.05	68.20	16.66	V
11787.750	48.69	-31.84	38.90	41.63	74.00	25.31	V
11885.650	48.38	-31.75	38.80	41.33	74.00	25.62	H

802.11n-HT40
FULL RB
Peak Results:

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)
17946.100	55.98	-25.55	42.30	39.23	74.00	18.02	V
17929.600	55.95	-25.55	42.30	39.20	74.00	18.05	V
14077.400	52.13	-28.98	40.50	40.61	68.20	16.07	V
13741.350	51.93	-29.41	40.70	40.64	68.20	16.27	V
11778.950	48.74	-31.84	38.90	41.68	74.00	25.26	H
11813.050	48.38	-31.84	38.90	41.32	74.00	25.62	H

802.11n-HT40
FULL RB
Peak Results:

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)
17871.850	56.21	-25.55	42.30	39.46	74.00	17.79	V
17936.750	56.21	-25.55	42.30	39.46	74.00	17.79	H
13635.200	52.20	-29.88	40.60	41.48	68.20	16.00	H
13706.150	51.99	-29.88	40.70	41.17	68.20	16.21	H
11781.150	48.44	-31.84	38.90	41.38	74.00	25.56	H
11610.100	48.20	-31.77	38.90	41.07	74.00	25.80	V

802.11ac-HT20
FULL RB
Peak Results:

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)
17937.300	56.75	-25.55	42.30	40.00	74.00	17.25	V
17919.700	56.06	-25.55	42.30	39.31	74.00	17.94	V
14130.750	52.18	-28.86	40.50	40.54	68.20	16.02	H
13717.700	51.71	-29.41	40.70	40.42	68.20	16.49	V
10401.200	48.53	-32.90	38.60	42.83	68.20	19.67	H
11805.350	48.40	-31.84	38.90	41.34	74.00	25.60	H

802.11ac-HT20
FULL RB
Peak Results:

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)
17960.400	56.27	-25.55	42.30	39.52	74.00	17.73	V
17910.350	56.12	-25.55	42.30	39.37	74.00	17.88	H
13696.250	51.70	-29.88	40.70	40.88	68.20	16.50	H
13587.350	51.64	-29.88	40.60	40.92	68.20	16.56	H
11649.700	48.92	-31.77	38.90	41.79	74.00	25.08	V
11713.500	48.56	-31.84	38.90	41.50	74.00	25.44	V

802.11ac-HT40
FULL RB
Peak Results:

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)
17904.850	55.86	-25.55	42.30	39.11	74.00	18.14	H
17939.500	55.80	-25.55	42.30	39.05	74.00	18.20	V
14015.250	52.12	-28.98	40.70	40.40	68.20	16.08	V
14099.950	51.88	-28.98	40.50	40.36	68.20	16.32	H
11840.550	48.57	-31.75	38.90	41.42	74.00	25.43	H
11772.900	48.19	-31.84	38.90	41.13	74.00	25.81	H

802.11ac-HT40
FULL RB
Peak Results:

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)
17926.850	56.16	-25.55	42.30	39.41	74.00	17.84	V
17883.950	55.92	-25.55	42.30	39.17	74.00	18.08	H
14112.050	52.38	-28.86	40.50	40.74	68.20	15.82	H
13590.650	51.98	-29.88	40.60	41.26	68.20	16.22	V
11259.200	48.85	-32.10	38.80	42.15	74.00	25.15	V
11800.400	48.73	-31.84	38.90	41.67	74.00	25.27	H

802.11ac-HT80
FULL RB
Peak Results:

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)
17907.600	56.40	-25.55	42.30	39.65	74.00	17.60	V
17936.200	56.36	-25.55	42.30	39.61	74.00	17.64	H
13627.500	52.93	-29.88	40.60	42.21	68.20	15.27	H
14137.900	51.79	-28.86	40.50	40.15	68.20	16.41	V
11231.150	48.52	-32.23	38.80	41.95	74.00	25.48	V
11990.700	48.40	-31.07	38.70	40.77	74.00	25.60	V

802.11ax-HT20
FULL RB
Peak Results:

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)
17917.500	56.00	-25.55	42.30	39.25	74.00	18.00	H
17905.950	55.84	-25.55	42.30	39.09	74.00	18.16	H
13721.550	52.73	-29.41	40.70	41.44	68.20	15.47	V
14176.400	52.19	-28.86	40.40	40.65	68.20	16.01	V
11449.500	49.11	-32.12	38.90	42.33	74.00	24.89	V
11252.600	48.63	-32.10	38.80	41.93	74.00	25.37	H

802.11ax-HT20
FULL RB
Peak Results:

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)
17967.550	56.59	-25.55	42.30	39.84	74.00	17.41	V
17940.050	56.11	-25.55	42.30	39.36	74.00	17.89	H
13732.550	52.19	-29.41	40.70	40.90	68.20	16.01	V
13662.150	51.87	-29.88	40.60	41.15	68.20	16.33	V
11392.850	49.63	-32.12	38.90	42.85	74.00	24.37	V
11744.300	48.77	-31.84	38.90	41.71	74.00	25.23	V

802.11ax-HT40
FULL RB
Peak Results:

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)
17917.500	55.97	-25.55	42.30	39.22	74.00	18.03	H
17928.500	55.93	-25.55	42.30	39.18	74.00	18.07	H
13584.050	52.03	-29.88	40.60	41.31	68.20	16.17	H
13746.850	51.80	-29.41	40.70	40.51	68.20	16.40	H
11854.850	48.49	-31.75	38.90	41.34	74.00	25.51	V
11930.750	48.49	-31.07	38.80	40.76	74.00	25.51	V

802.11ax-HT40
FULL RB
Peak Results:

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)
17905.950	56.12	-25.55	42.30	39.37	74.00	17.88	H
17803.100	55.95	-25.55	42.30	39.20	74.00	18.05	H
14217.100	51.81	-28.86	40.40	40.27	68.20	16.39	V
13796.900	51.74	-29.41	40.90	40.25	68.20	16.46	H
11598.550	49.69	-31.77	38.90	42.56	74.00	24.31	V
11796.550	48.80	-31.84	38.90	41.74	74.00	25.20	V

802.11ax-HT80
FULL RB
Peak Results:

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)
17913.650	56.41	-25.55	42.30	39.66	74.00	17.59	V
17935.650	56.37	-25.55	42.30	39.62	74.00	17.63	V
14142.300	51.97	-28.86	40.50	40.33	68.20	16.23	V
13755.650	51.85	-29.41	40.70	40.56	68.20	16.35	V
11757.500	49.28	-31.84	38.90	42.22	74.00	24.72	H
10881.350	48.55	-32.55	38.80	42.30	74.00	25.45	V

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:

FULL RB

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	P
	5775 MHz	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	P
	5775 MHz	Fig.18	P

Partial RB

Mode	Channel	RU size and index	Test Results	Conclusion
802.11ax HT20	5745 MHz	106RU-index53	Fig.19	P
	5825 MHz	106RU-index54	Fig.20	P
802.11ax HT40	5755 MHz	242RU-index61	Fig.21	P
	5795 MHz	242RU-index62	Fig.22	P
802.11ax HT80	5775 MHz	242RU-index61	Fig.23	P
	5775 MHz	242RU-index62	Fig.24	P

Note1: All partial RU and full RU have been tested, in spurious domain there are basically noises with suspicious emission, thus only the full RU results were reported.

Note2: All SISO and MIMO emissions have been checked, only the worst cases were reported.

Conclusion: PASS

Test graphs as below:

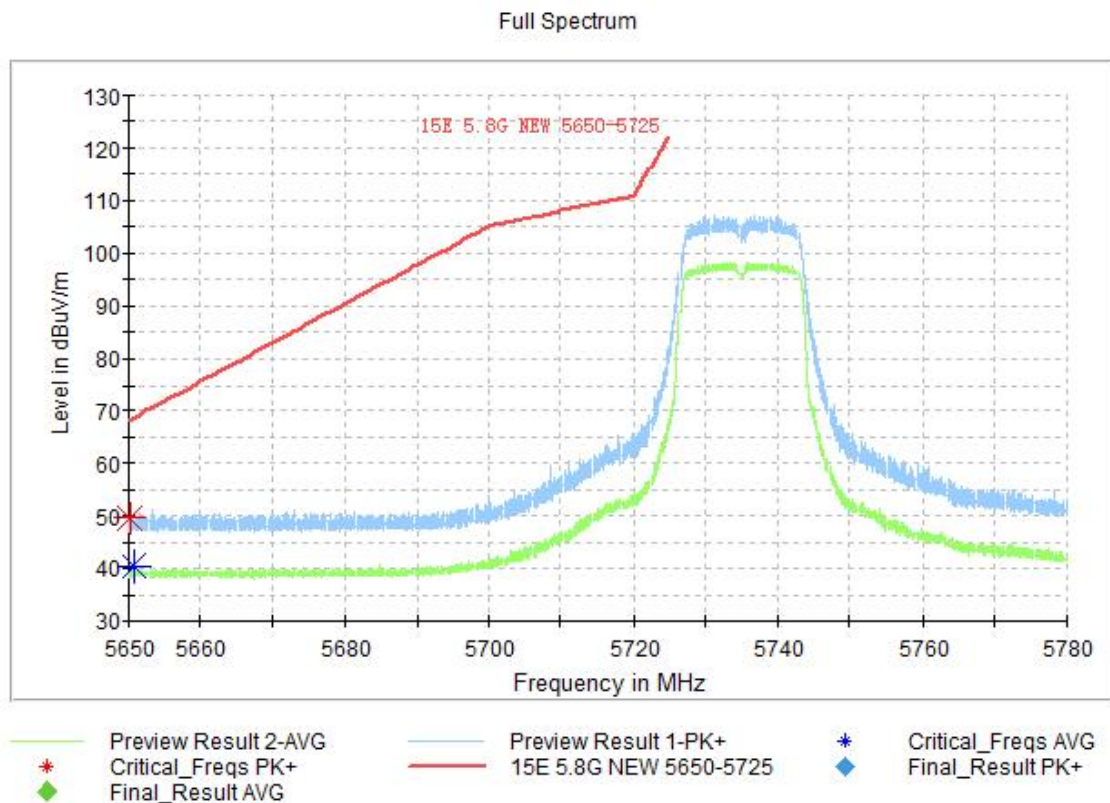


Fig. 1 Band Edges (802.11a Ch149,5745MHz, Full RU)

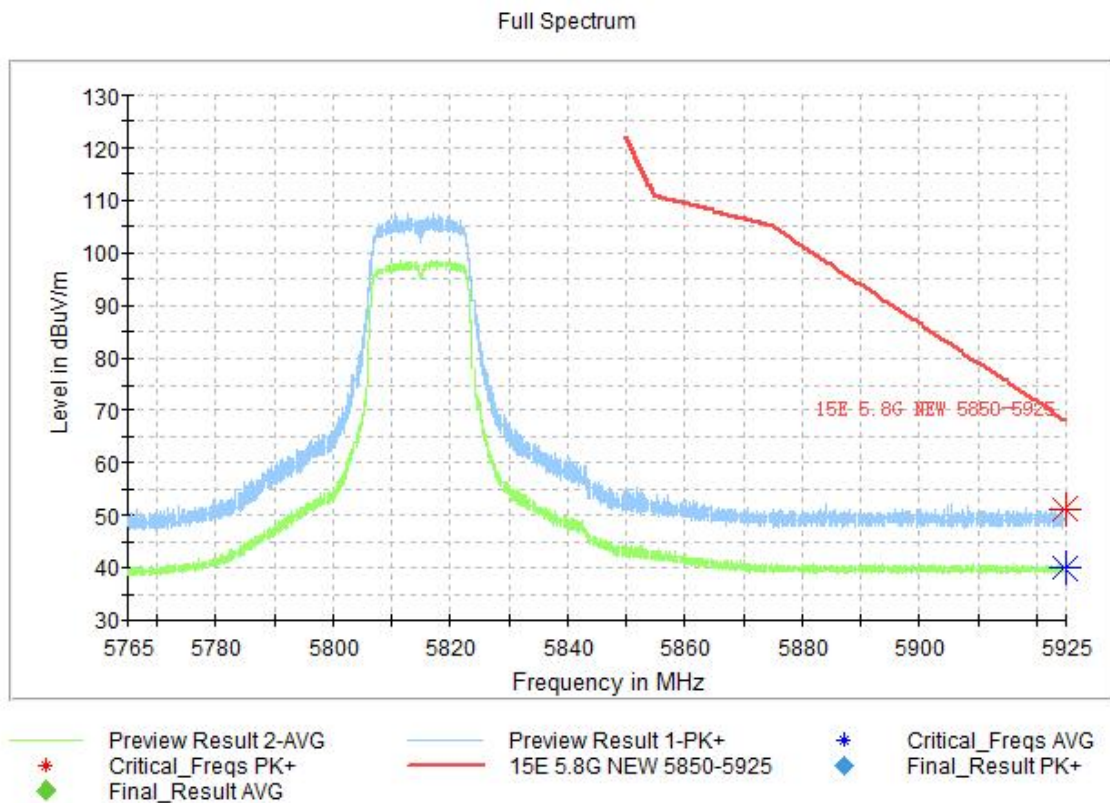


Fig. 2 Band Edges (802.11a Ch165, 5825MHz, Full RU)

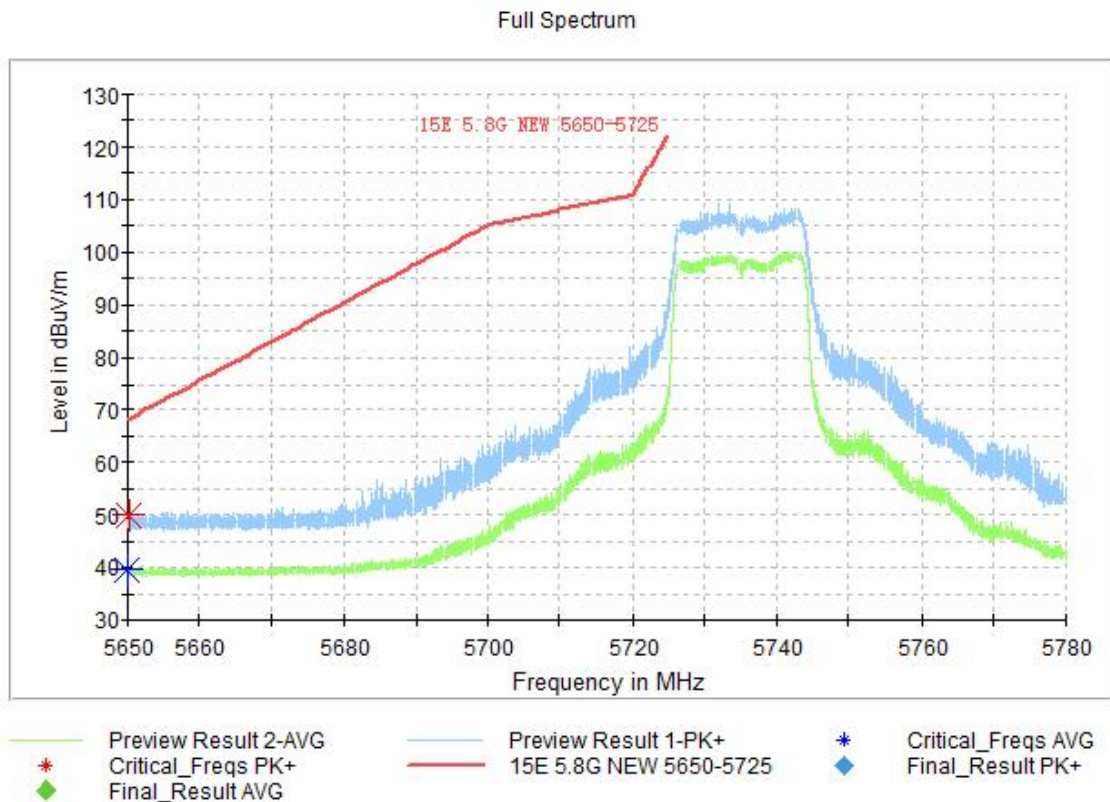


Fig. 3 Band Edges (802.11n-HT20 Ch149, 5745MHz, Full RU)

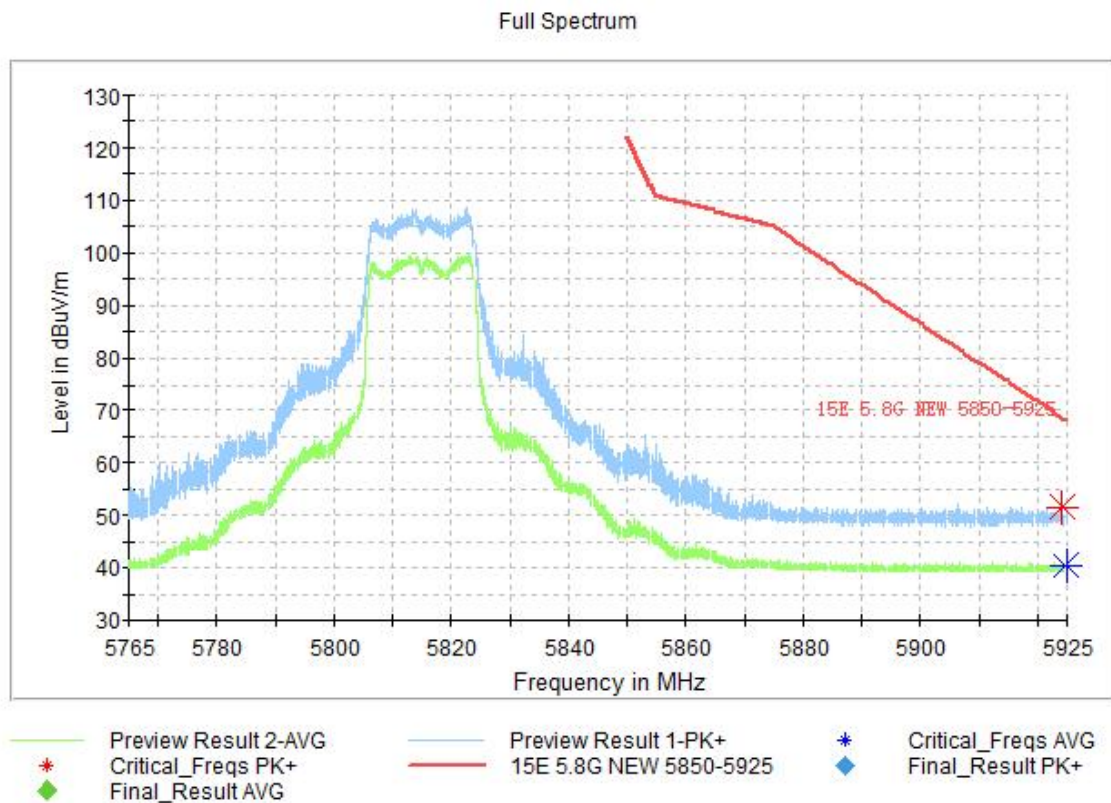


Fig. 4 Band Edges (802.11n-HT20 Ch165, 5825MHz, Full RU)

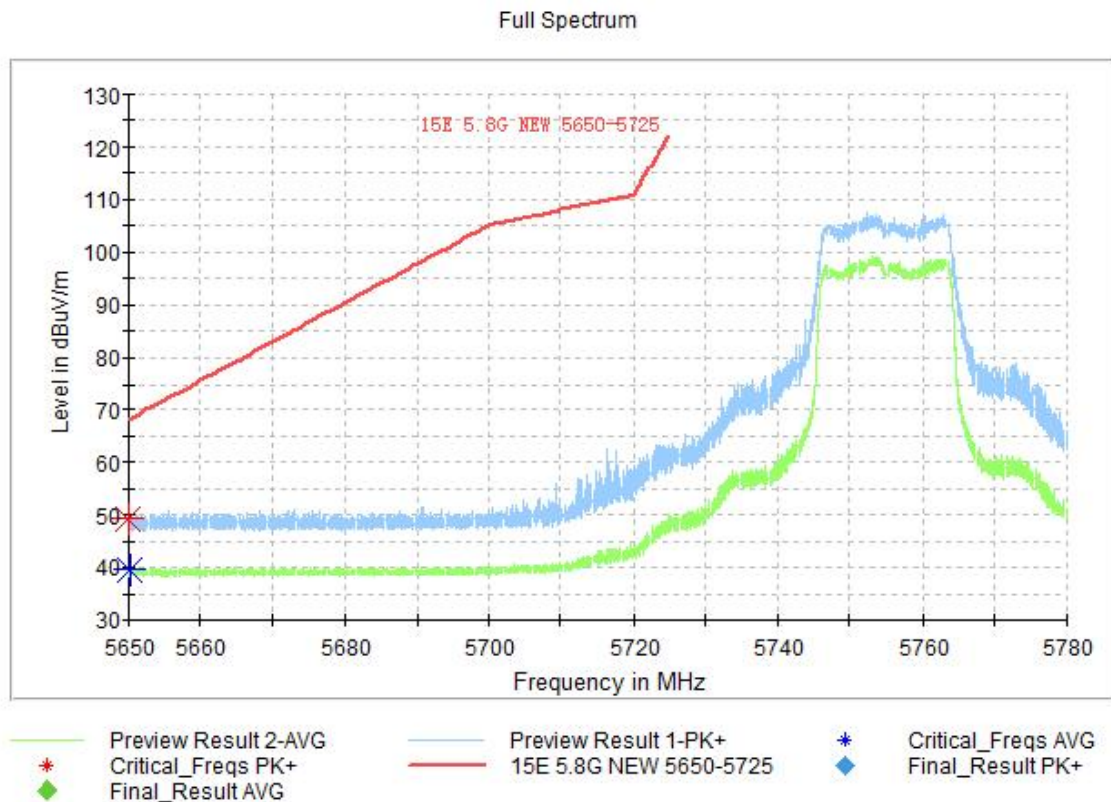


Fig. 5 Band Edges (802.11n-HT40 Ch151, 5755MHz, Full RU)

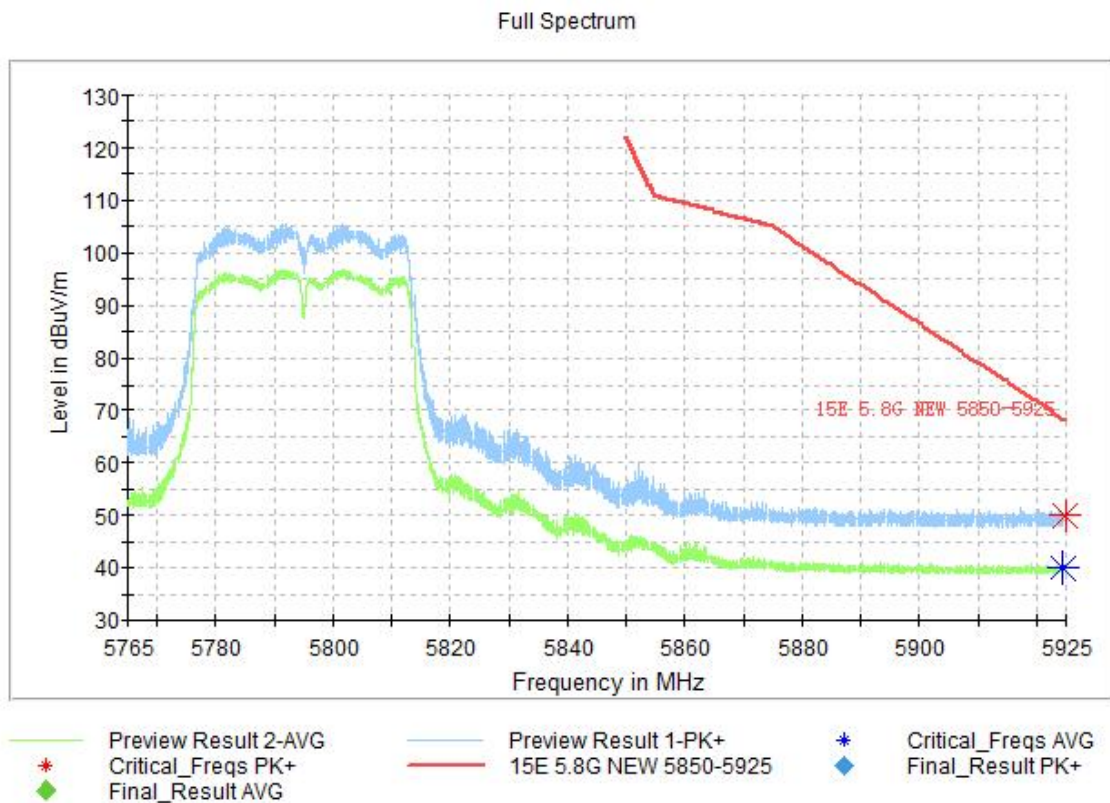


Fig. 6 Band Edges (802.11n-HT40 Ch159, 5795MHz, Full RU)

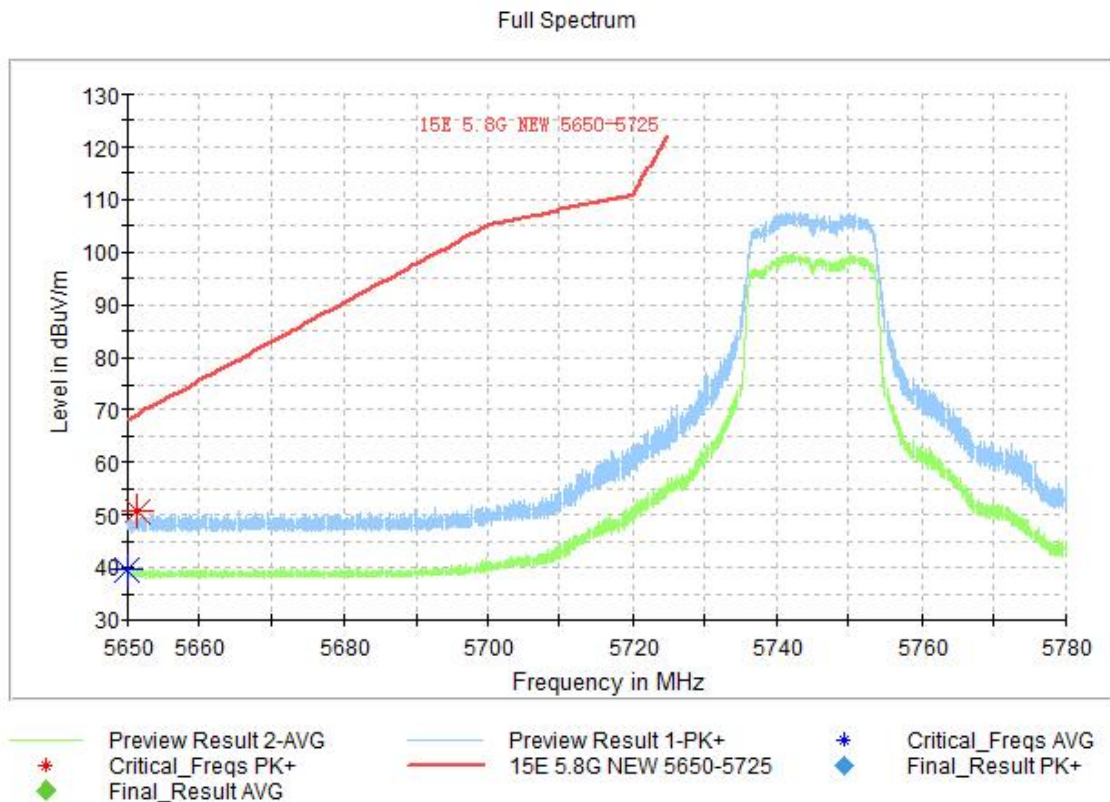


Fig. 7 Band Edges (802.11ac-HT20 Ch149, 5745MHz, Full RU)

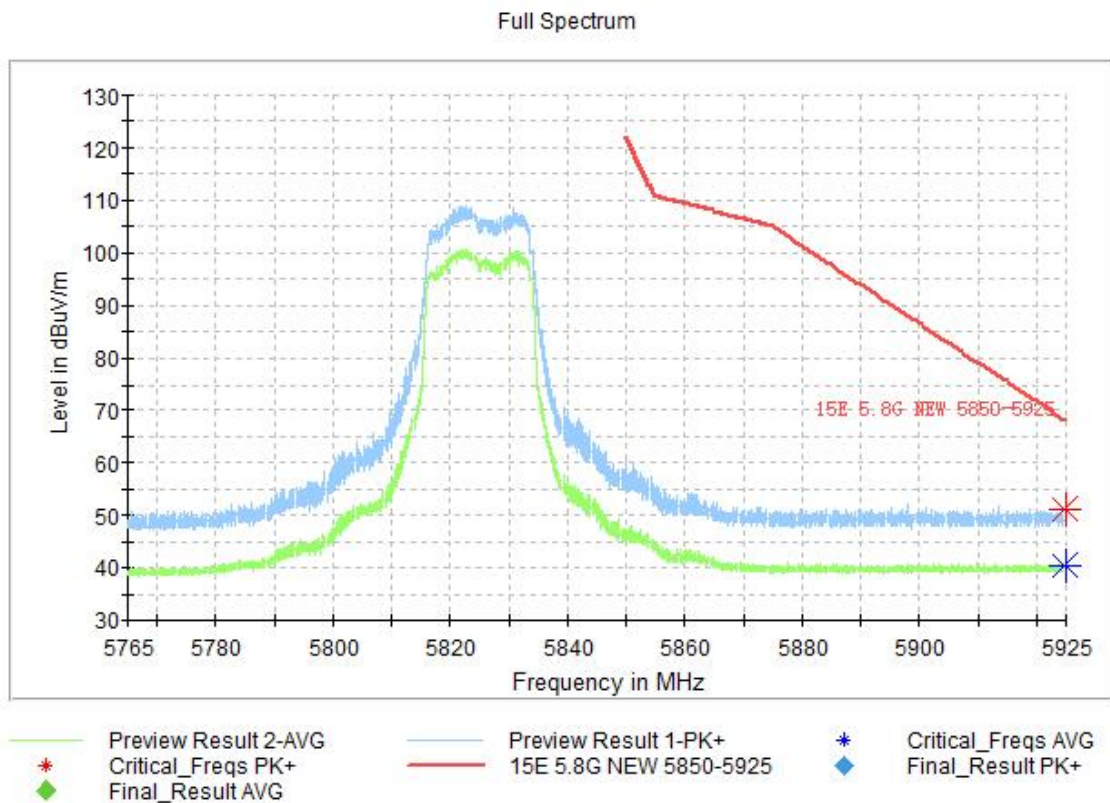


Fig. 8 Band Edges (802.11ac-HT20 Ch165, 5825MHz, Full RU)

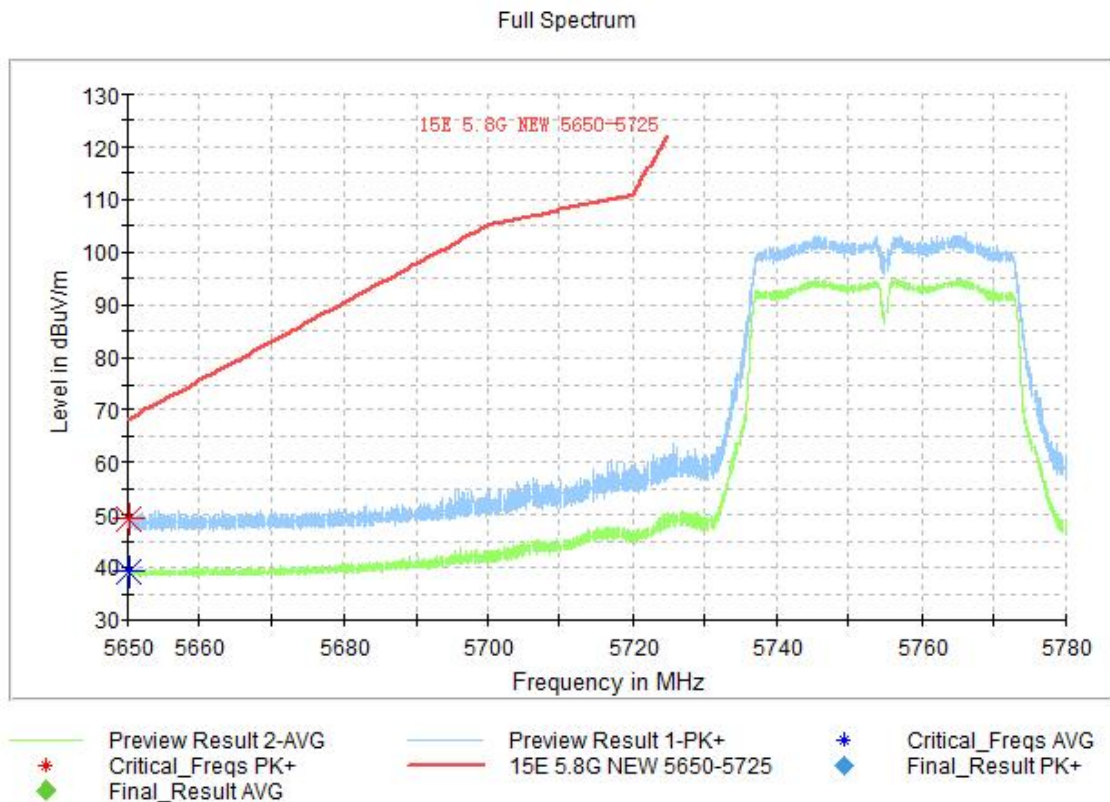


Fig. 9 Band Edges (802.11ac-HT40 Ch151, 5755MHz, Full RU)

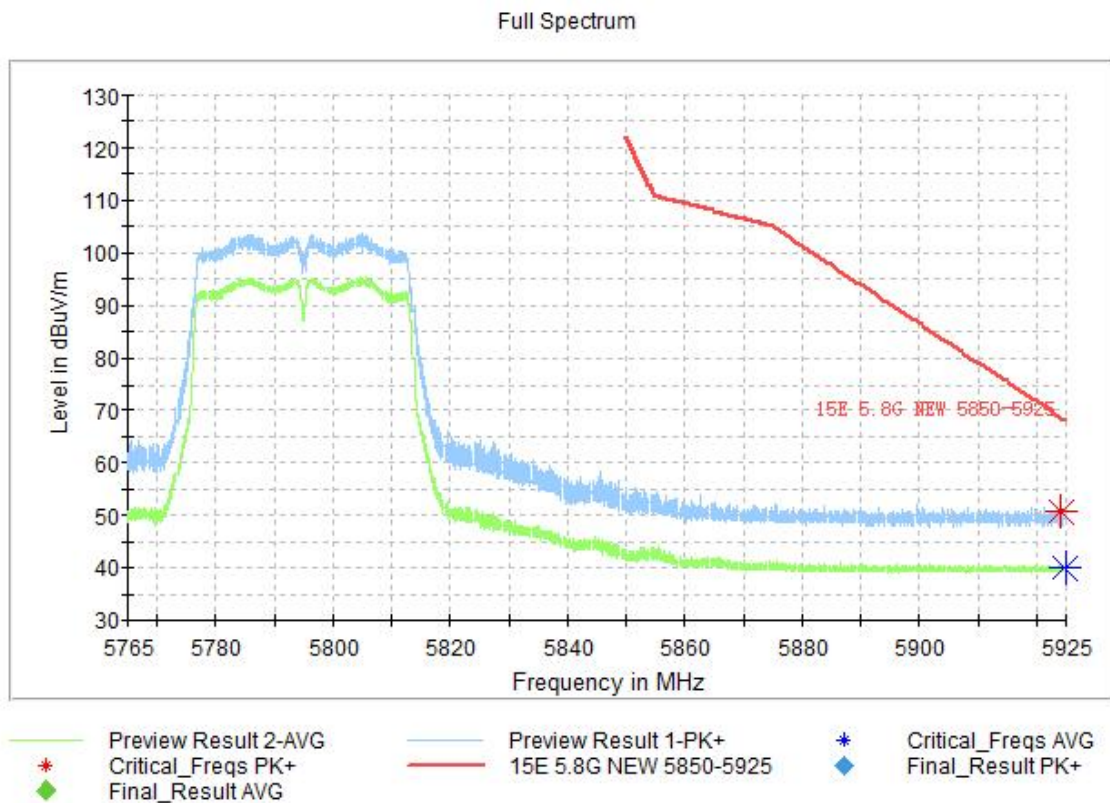


Fig. 10 Band Edges (802.11ac-HT40 Ch159, 5795MHz, Full RU)

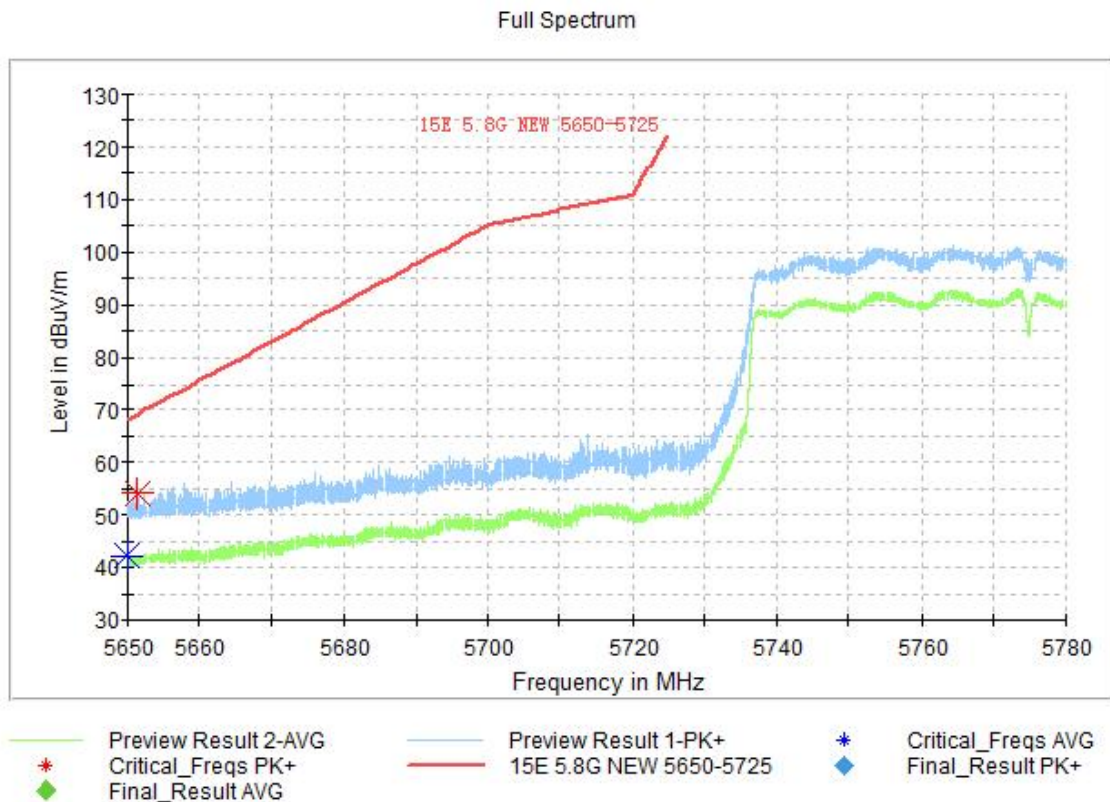


Fig. 11 Band Edges (802.11ac-HT80 Ch155, 5775MHz, Full RU)

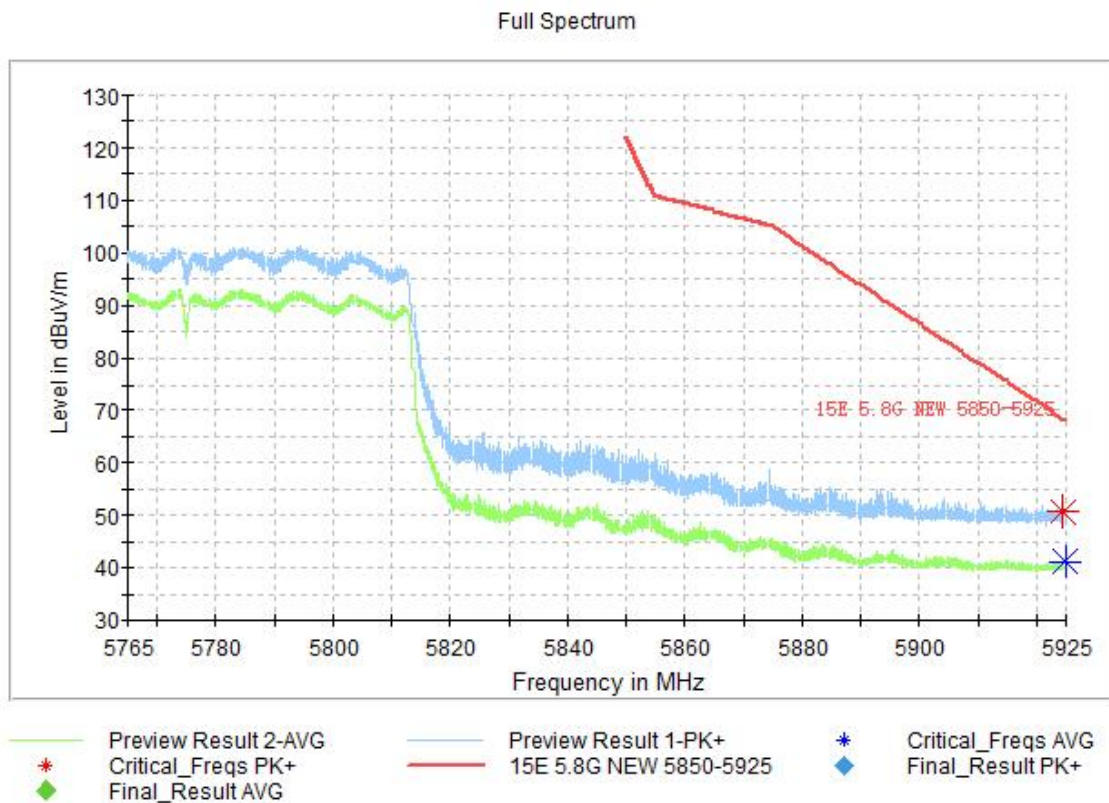


Fig. 12 Band Edges (802.11ac-HT80 Ch155, 5775MHz, Full RU)

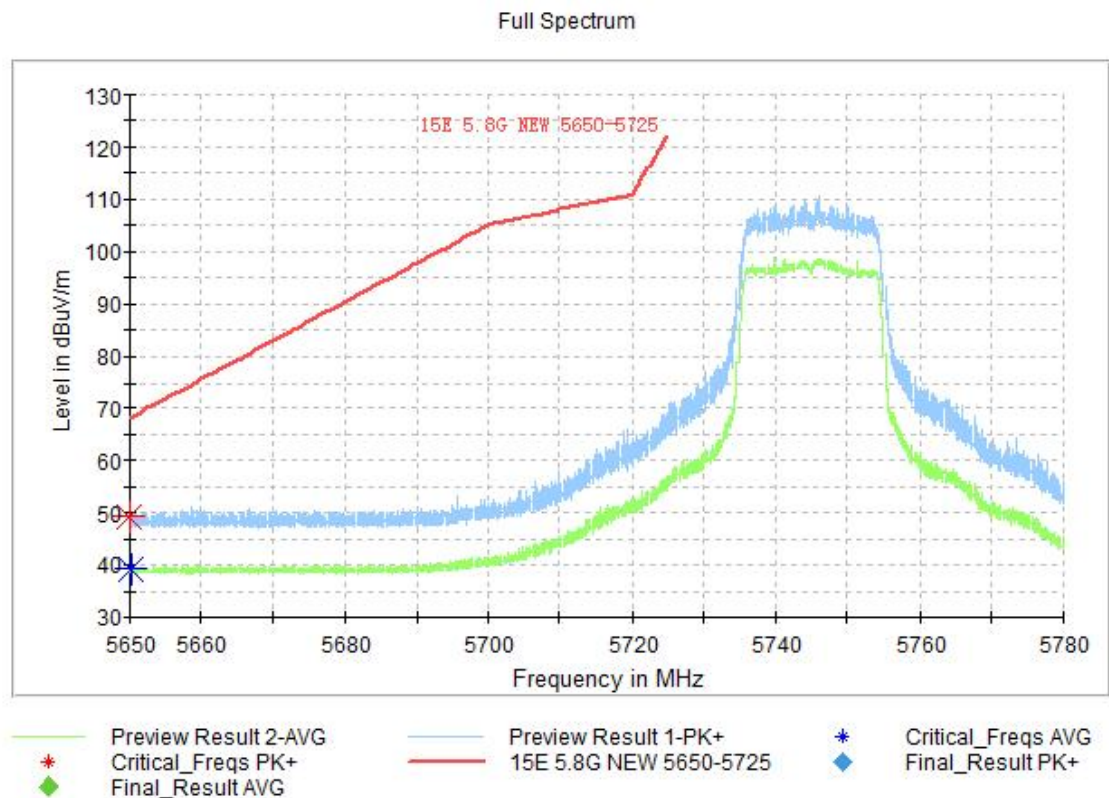


Fig. 13 Band Edges (802.11ax-HT20 Ch149, 5745MHz, Full RU)

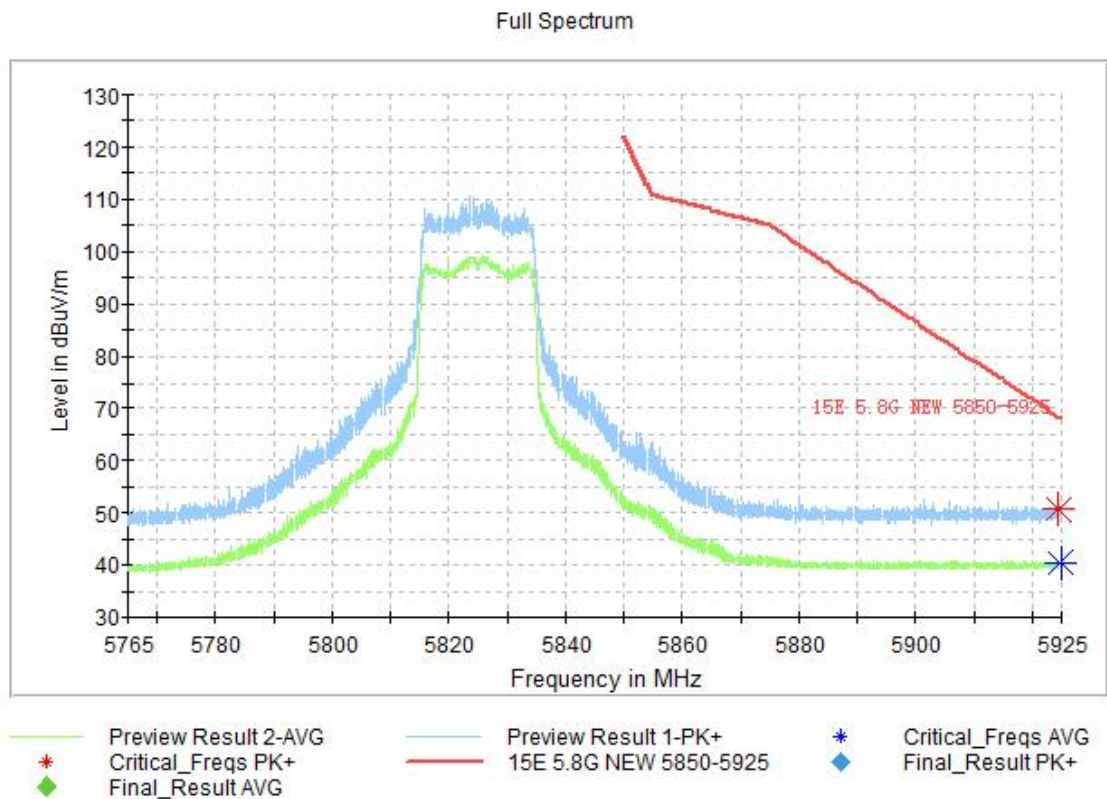


Fig. 14 Band Edges (802.11ax-HT20 Ch165, 5825MHz, Full RU)

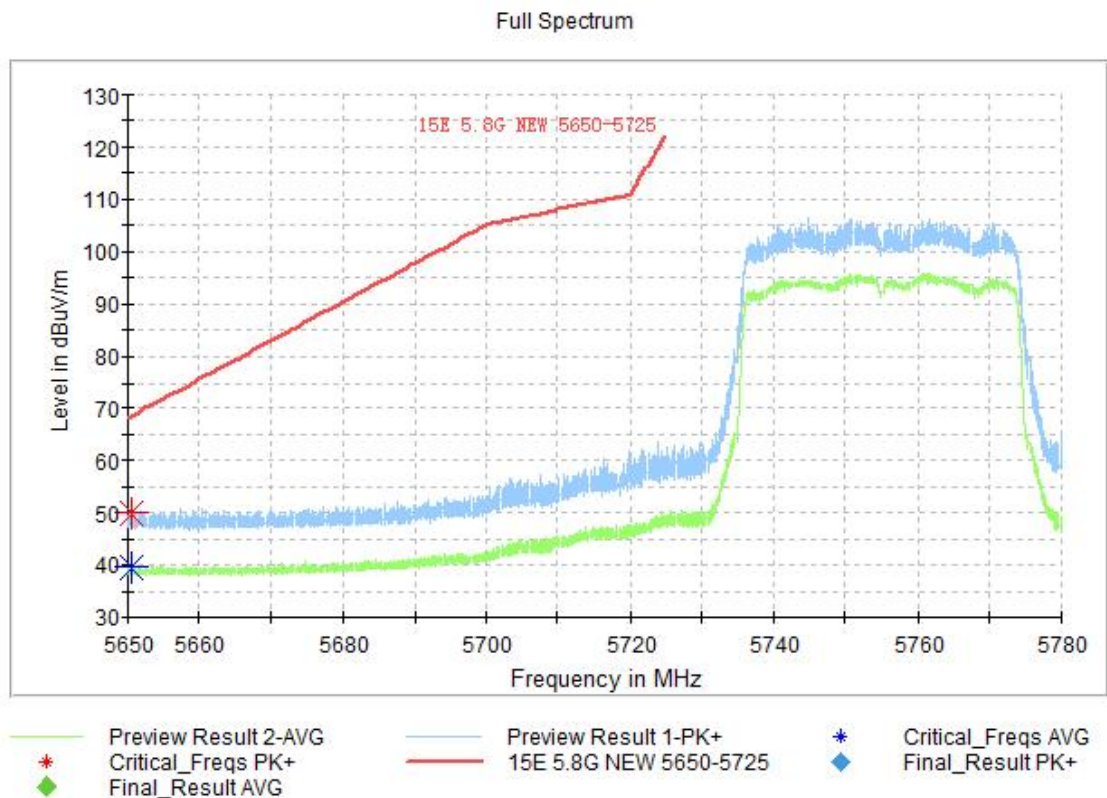


Fig. 15 Band Edges (802.11ax-HT40 Ch151, 5755MHz, Full RU)

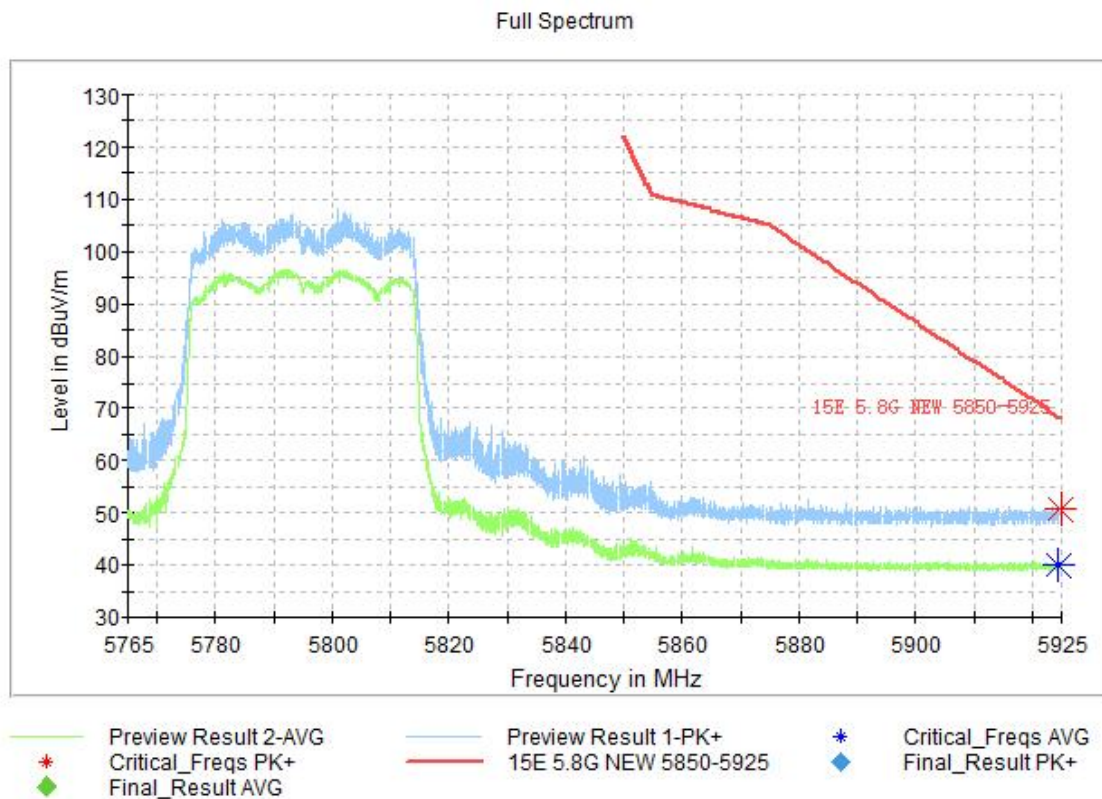


Fig. 16 Band Edges (802.11ax-HT40 Ch159, 5795MHz, Full RU)

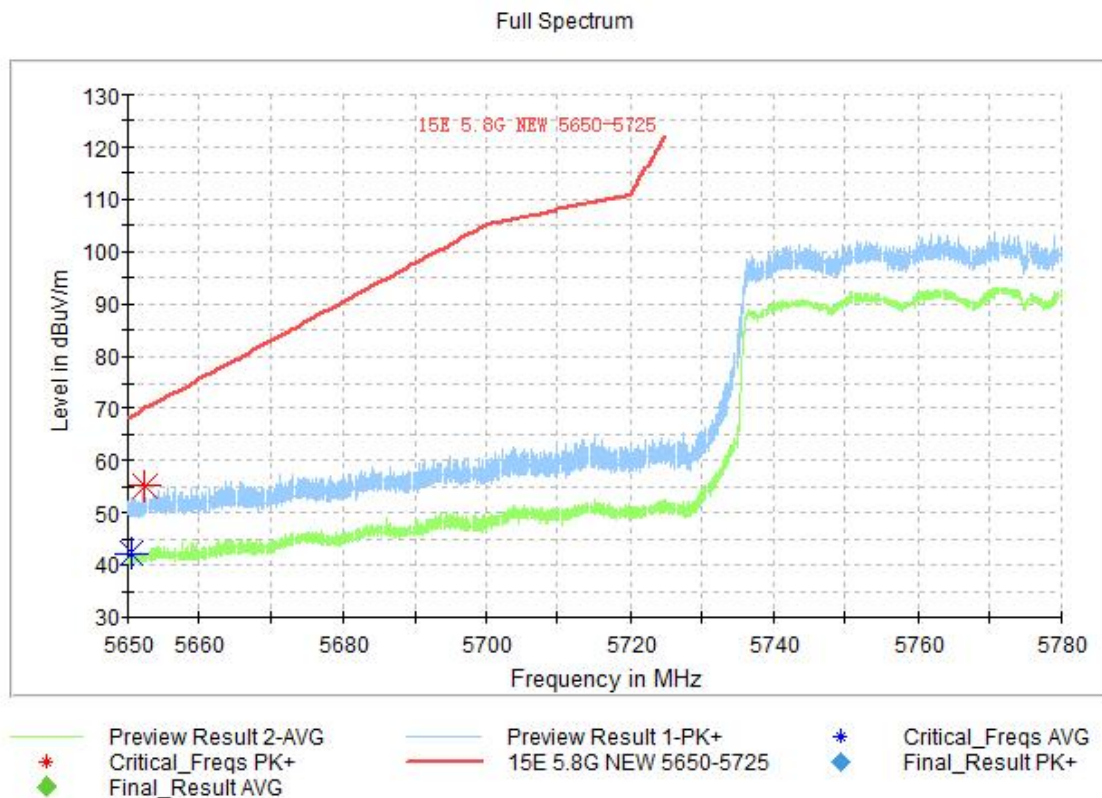


Fig. 17 Band Edges (802.11ax-HT80 Ch155, 5775MHz, Full RU)

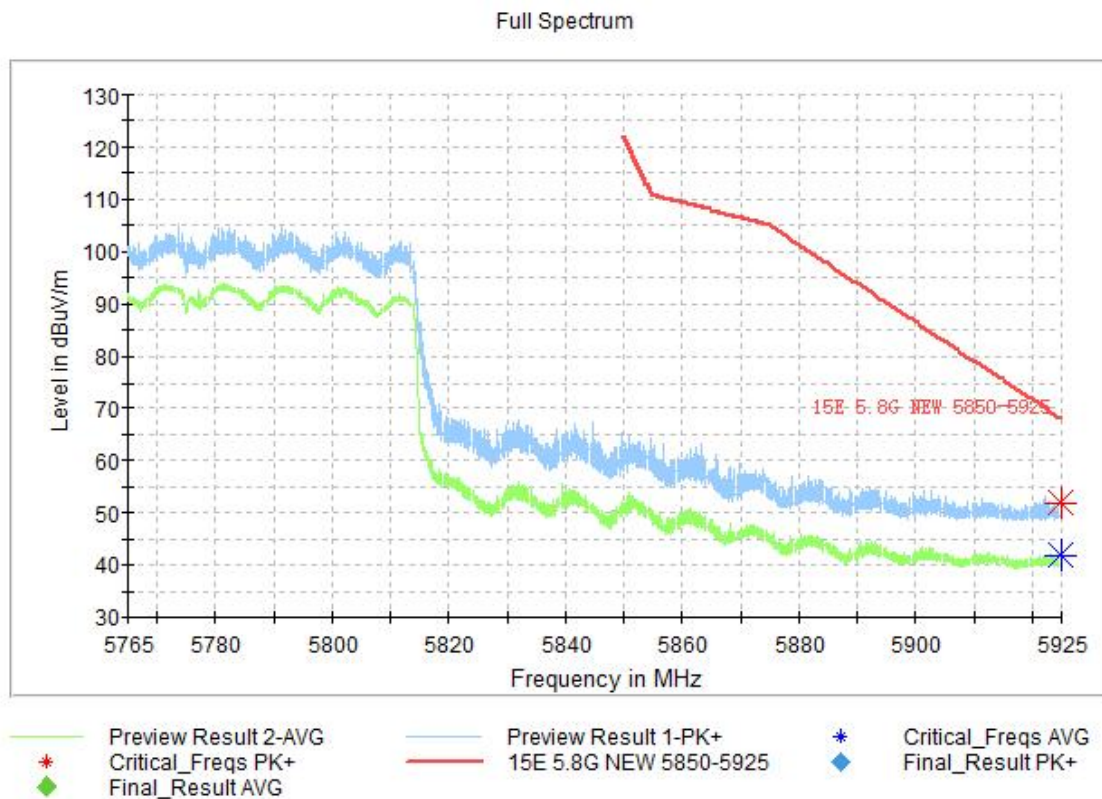


Fig. 18 Band Edges (802.11ax-HT80 Ch155, 5775MHz, Full RU)

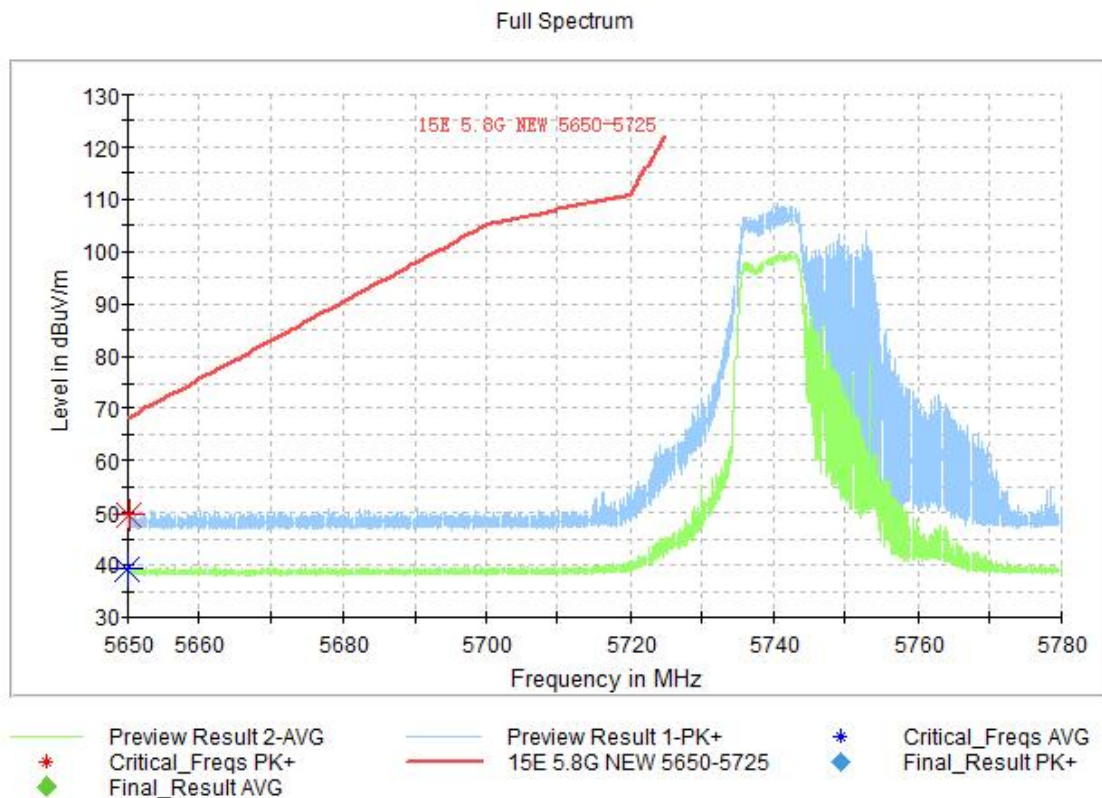


Fig. 19 Band Edges (802.11ax-HT20 Ch149,5745MHz, Partial RU)

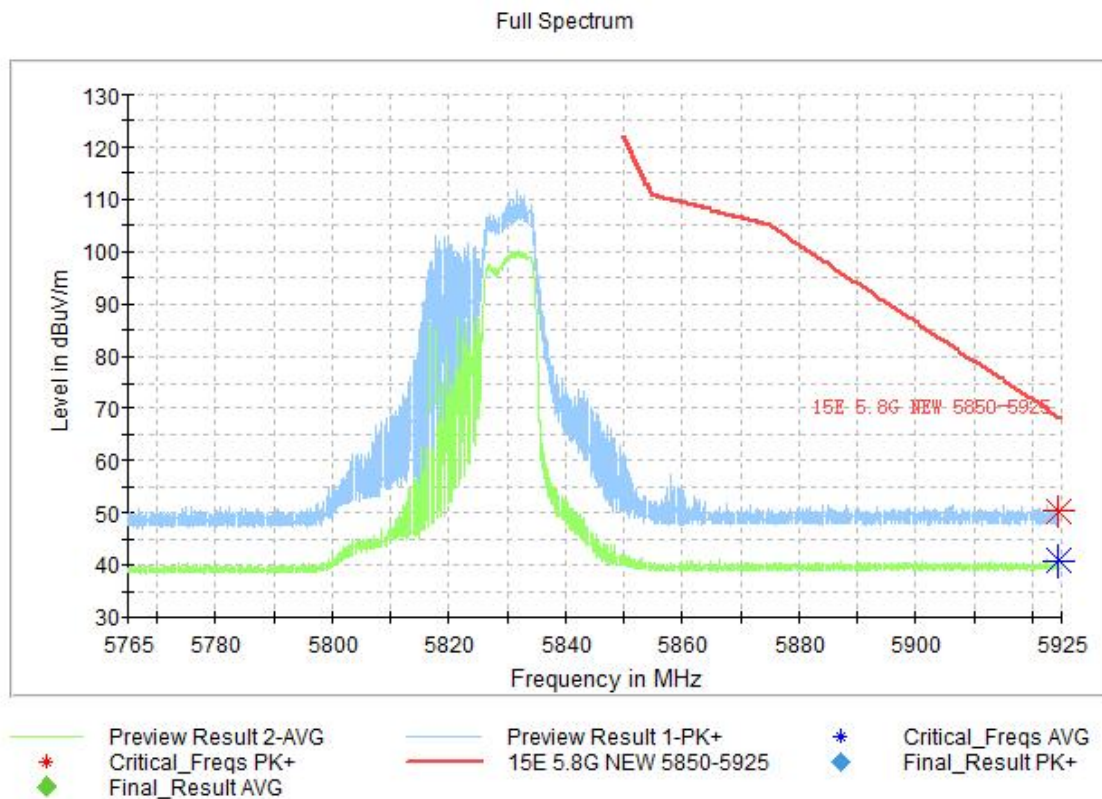


Fig. 20 Band Edges (802.11ax-HT20 Ch165, 5825MHz, Partial RU)

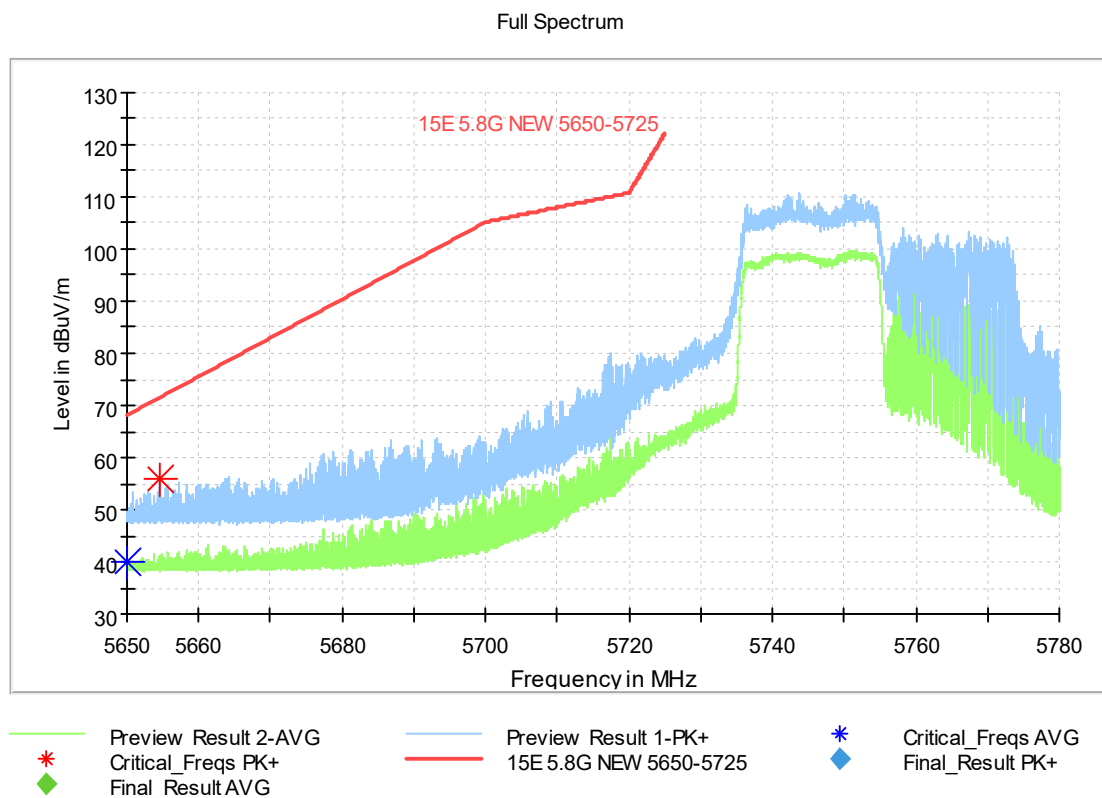


Fig. 21 Band Edges (802.11ax-HT40 Ch151, 5755MHz, Partial RU)

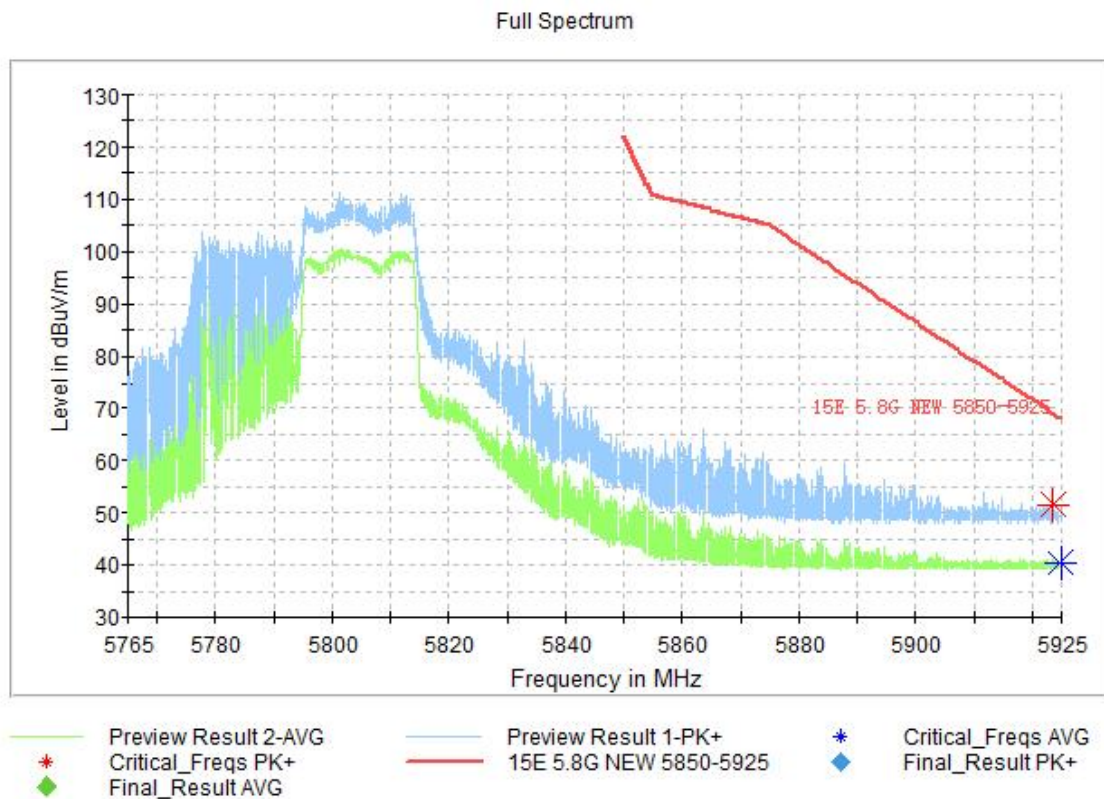


Fig. 22 Band Edges (802.11ax-HT40 Ch159, 5795MHz, Partial RU)

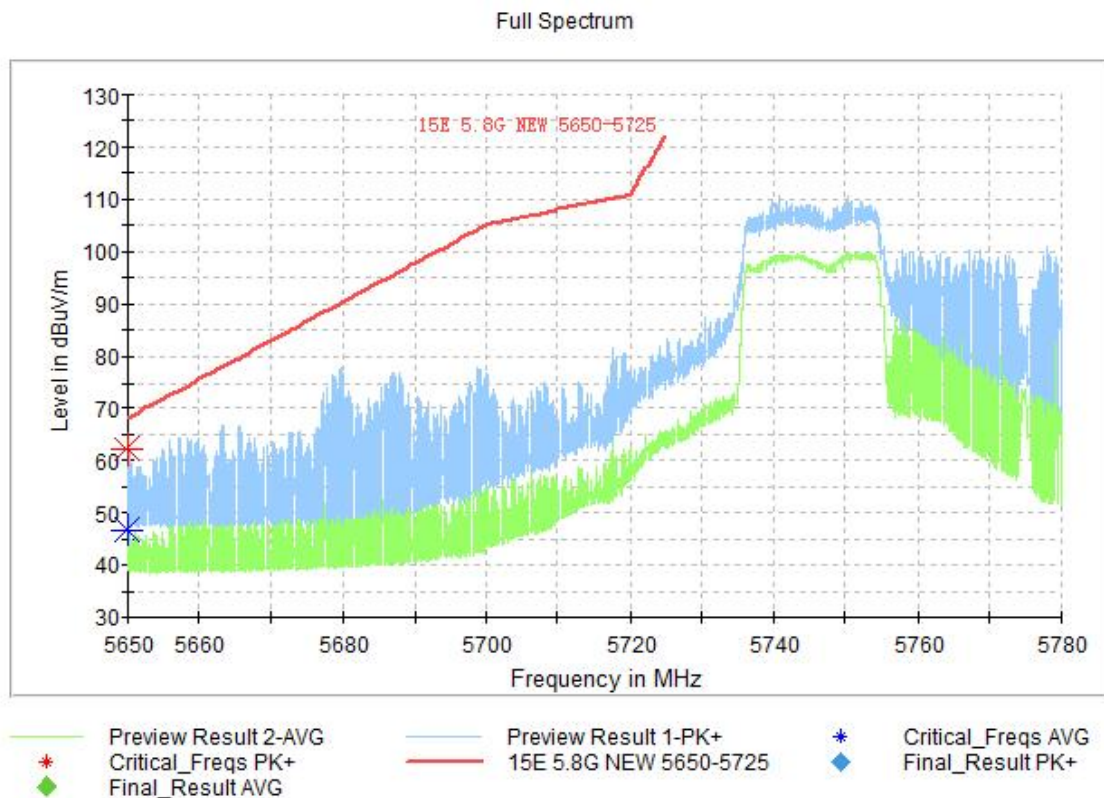


Fig. 23 Band Edges (802.11ax-HT80 Ch155, 5775MHz, Partial RU)

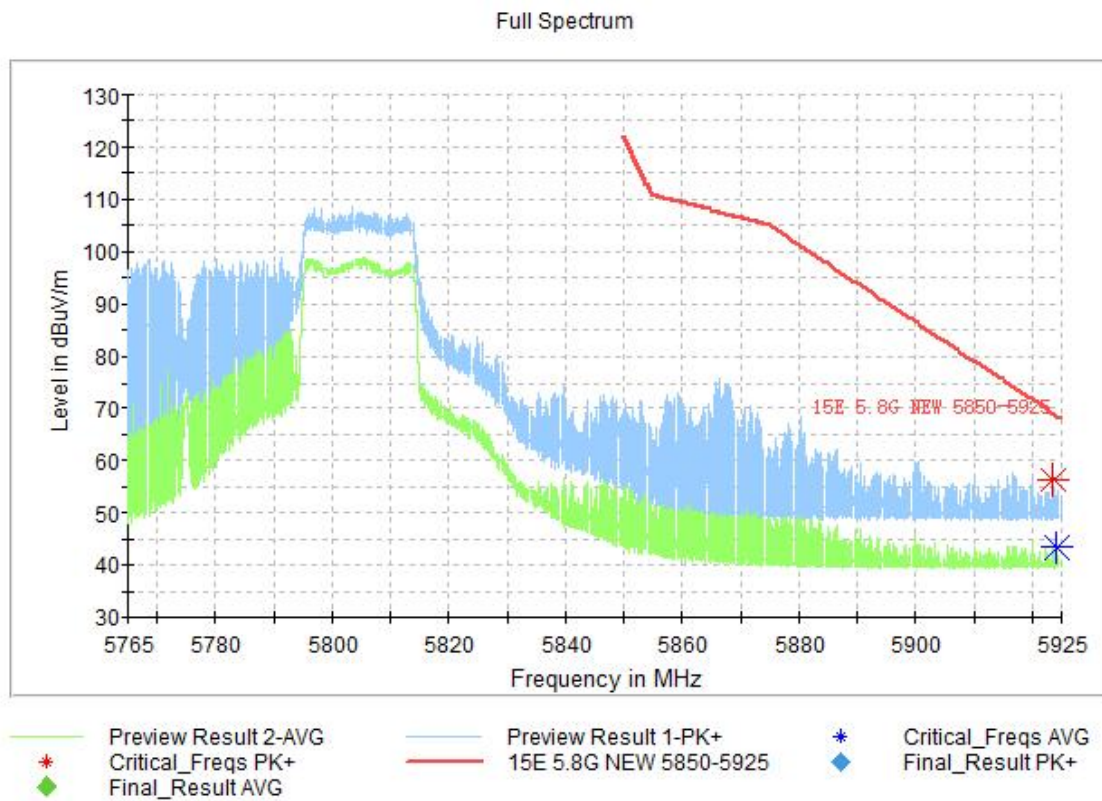


Fig. 24 Band Edges (802.11ax-HT80 Ch155, 5775MHz, Partial RU)

A.7. AC Powerline Conducted Emission

Test Condition:

Voltage (V)	Frequency (Hz)
120	60

Measurement uncertainty:

Expanded measurement uncertainty for this test item is $U = 3.2\text{dB}$, $k=2$.

Measurement Result and limit:

WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Result (dBμV)		Conclusion
		With charger		
		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 (dBμV)	Result (dBμV)		Conclusion
		With charger		
		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.

The measurement is made according to ANSI C63.10 .

Conclusion: PASS

Test graphs as below:

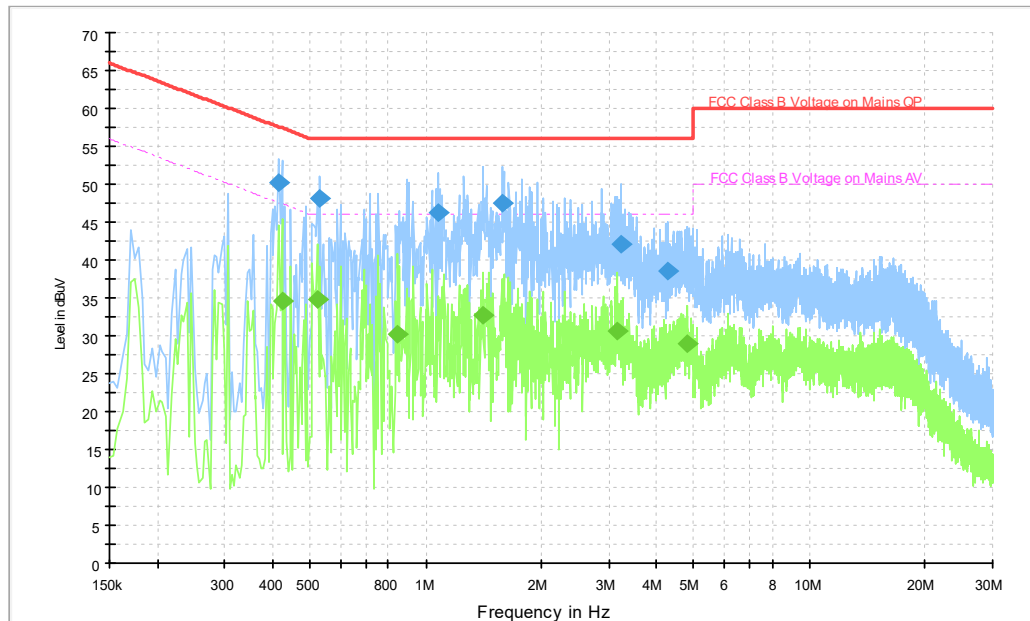


Fig. 25 AC Powerline Conducted Emission-802.11a

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.414000	50.3	2000.0	9.000	On	L1	20.0	7.3	57.6
0.530000	48.2	2000.0	9.000	On	L1	20.0	7.8	56.0
1.078000	46.3	2000.0	9.000	On	L1	19.9	9.7	56.0
1.582000	47.5	2000.0	9.000	On	L1	19.8	8.5	56.0
3.242000	42.1	2000.0	9.000	On	L1	19.8	13.9	56.0
4.270000	38.6	2000.0	9.000	On	L1	19.8	17.4	56.0

Final Result 2

Frequency (MHz)	CAverage (dBμV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.422000	34.7	2000.0	9.000	On	L1	20.0	12.7	47.4
0.522000	34.8	2000.0	9.000	On	L1	20.0	11.2	46.0
0.846000	30.2	2000.0	9.000	On	L1	19.9	15.8	46.0
1.414000	32.8	2000.0	9.000	On	L1	19.9	13.2	46.0
3.162000	30.7	2000.0	9.000	On	L1	19.8	15.3	46.0
4.778000	29.0	2000.0	9.000	On	L1	19.8	17.0	46.0

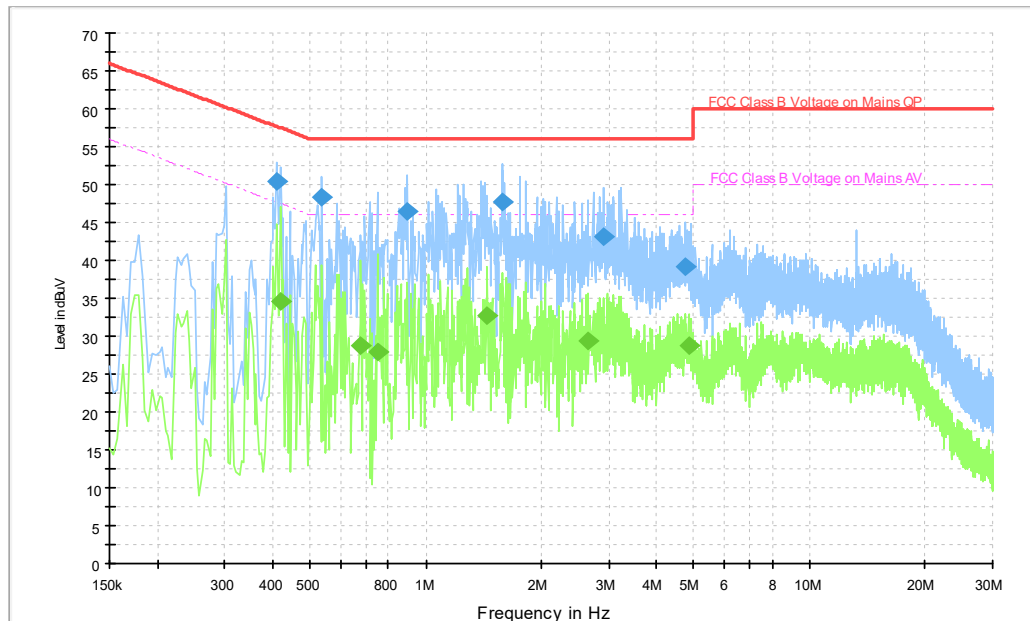


Fig. 26 AC Powerline Conducted Emission-Iidle

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.410000	50.3	2000.0	9.000	On	L1	20.0	7.3	57.6
0.538000	48.4	2000.0	9.000	On	L1	20.0	7.6	56.0
0.898000	46.5	2000.0	9.000	On	L1	19.9	9.5	56.0
1.582000	47.7	2000.0	9.000	On	L1	19.8	8.3	56.0
2.910000	43.2	2000.0	9.000	On	L1	19.8	12.8	56.0
4.730000	39.3	2000.0	9.000	On	L1	19.8	16.7	56.0

Final Result 2

Frequency (MHz)	CAverage (dBμV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.418000	34.6	2000.0	9.000	On	L1	20.0	12.9	47.5
0.678000	28.8	2000.0	9.000	On	L1	20.0	17.2	46.0
0.750000	27.9	2000.0	9.000	On	L1	20.0	18.2	46.0
1.450000	32.6	2000.0	9.000	On	L1	19.9	13.4	46.0
2.642000	29.5	2000.0	9.000	On	L1	19.8	16.5	46.0
4.830000	28.8	2000.0	9.000	On	L1	19.8	17.2	46.0

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



*** END OF REPORT BODY ***