



FCC PART 15C TEST REPORT No.I23Z61433-IOT03

for

TCL Communication Ltd.

Tablet PC

8192A

FCC ID: 2ACCJB205

with

Hardware Version: KY14

Software Version: 35132419

Issued Date: 2023-08-31

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.

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No.I23Z61433-IOT03

REPORT HISTORY

Report Number	Revision	Description	Issue Date
I23Z61433-IOT03	Rev.0	1st edition	2023-08-25
I23Z61433-IOT03	Rev.1	Update test results for 6dB Emission Bandwidth	2023-08-31

CONTENTS

CONTENTS	3
1. TEST LATORATORY	5
1.1. INTRODUCTION & ACCREDITATION	5
1.2. TESTING LOCATION	5
1.3. TESTING ENVIRONMENT	6
1.4. PROJECT DATE	6
1.5. SIGNATURE	6
2. CLIENT INFORMATION	7
2.1. APPLICANT INFORMATION	7
2.2. MANUFACTURER INFORMATION	7
3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT(AE)	8
3.1. ABOUT EUT	8
3.2. INTERNAL IDENTIFICATION OF EUT USED DURING THE TEST	8
3.3. INTERNAL IDENTIFICATION OF AE USED DURING THE TEST	8
3.4. GENERAL DESCRIPTION	8
4. REFERENCE DOCUMENTS	9
4.1. DOCUMENTS SUPPLIED BY APPLICANT	9
4.2. REFERENCE DOCUMENTS FOR TESTING	9
5. LABORATORY ENVIRONMENT	9
6. SUMMARY OF TEST RESULTS	10
6.1. SUMMARY OF TEST RESULTS	10
6.2. STATEMENTS	10
6.3. TEST CONDITIONS	10
7. TEST EQUIPMENTS UTILIZED	11
8. MEASUREMENT UNCERTAINTY	12
8.1. TRANSMITTER OUTPUT POWER	12
8.2. PEAK POWER SPECTRAL DENSITY	12
8.3. OCCUPIED 6DB BANDWIDTH	12
8.4. BAND EDGES COMPLIANCE	12
8.5. SPURIOUS EMISSIONS	12
8.6. AC POWER-LINE CONDUCTED EMISSION	12
ANNEX A: MEASUREMENT RESULTS	13
A.1. MEASUREMENT METHOD	13
A.2. MAXIMUM PEAK OUTPUT POWER	14
A.2.1 ANTENNA GAIN	14
A.2.2. MAXIMUM AVERAGE OUTPUT POWER-CONDUCTED	14

A.3. PEAK POWER SPECTRAL DENSITY	17
A.4. OCCUPIED 6dB BANDWIDTH	18
A.5. TRANSMITTER SPURIOUS EMISSION	22
A.5.1 TRANSMITTER SPURIOUS EMISSION - RADIATED	22
A.6. BAND EDGES COMPLIANCE	35
A6.1 BAND EDGES - RADIATED	35
FIG. 1 BAND EDGES (802.11A CH149,5745MHZ).....	36
FIG. 2 BAND EDGES (802.11A CH165, 5825MHZ).....	36
FIG. 3 BAND EDGES (802.11N-HT20 CH149, 5745MHZ).....	37
FIG. 4 BAND EDGES (802.11N-HT20 CH165, 5825MHZ).....	37
FIG. 5 BAND EDGES (802.11N-HT40 CH151, 5755MHZ).....	38
FIG. 6 BAND EDGES (802.11N-HT40 CH159, 5795MHZ).....	38
FIG. 7 BAND EDGES (802.11AC-HT20 CH149, 5745MHZ).....	39
FIG. 8 BAND EDGES (802.11AC-HT20 CH165, 5825MHZ).....	39
FIG. 9 BAND EDGES (802.11AC-HT40 CH151, 5755MHZ).....	40
FIG. 10 BAND EDGES (802.11AC-HT40 CH159, 5795MHZ).....	40
FIG. 11 BAND EDGES (802.11AC-HT80 CH155, 5775MHZ).....	41
FIG. 12 BAND EDGES (802.11AC-HT80, 5775MHZ).....	41
A.7. AC POWERLINE CONDUCTED EMISSION	42
FIG. 13 AC POWER LINE CONDUCTED EMISSION-802.11A	43
FIG. 14 AC POWER LINE CONDUCTED EMISSION-IDLE.....	44
ANNEX B: EUT PARAMETERS.....	45
ANNEX C: ACCREDITATION CERTIFICATE	45



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 (CN5017), 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: 2023-07-25

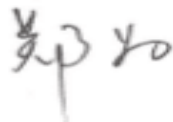
Testing End Date: 2023-08-31

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: TCL Communication Ltd.
Address: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science
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City: Hong Kong
Postal Code: /
Country: China
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Fax: /

2.2. Manufacturer Information

Company Name: TCL Communication Ltd.
Address: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science
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City: Hong Kong
Postal Code: /
Country: China
Telephone: +86 755 3661 1621
Fax: /

3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT(AE)

3.1. About EUT

Description	Tablet PC
Model name	8192A
FCC ID	2ACCJB205
WLAN Frequency Band	ISM Band: 5725MHz~5850MHz
Type of modulation	OFDM
Voltage	3.7V

3.2. Internal Identification of EUT used during the test

EUT ID*	IMEI	HW Version	SW Version
UT05a	351324190000496	KY14	35132419
UT12a	351324190000553	KY14	35132419

*EUT ID: is used to identify the test sample in the lab internally.
 UT05a is used for Conduction test, UT12a is used for Radiation test.

3.3. Internal Identification of AE used during the test

AE ID*	Description	Type	SN
AE1	Battery	/	/
AE2	Charger1	/	/
AE3	Data Cable	/	

AE1

Model	2853B7PL - 2P
Manufacturer	Gaoyuan
Capacity(mAh)	6000mAh

AE2

Model	CG10A0502000UU
Manufacturer	JUWEI
Length of cable	/

AE3

Model	JWUB1591-J51R
Manufacturer	JUWEI
Length of cable	/

*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 Tablet PC 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; 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
KDB 558074 D01	Federal Communications Commission Office of Engineering and Technology Laboratory Division GUIDANCE FOR COMPLIANCE MEASUREMENTS ON DIGITAL TRANSMISSION SYSTEM, FREQUENCY HOPPING SPREAD SPECTRUM SYSTEM, AND HYBRID SYSTEM DEVICES OPERATING UNDER SECTION 15.247 OF THE FCC RULES	2019

5. LABORATORY ENVIRONMENT

Conducted RF performance testing is performed in shielding room.

EMC performance testing is performed in Semi-anechoic chamber.

6. SUMMARY OF TEST RESULTS

6.1. Summary of Test Results

SUMMARY OF MEASUREMENT RESULTS	Sub-clause of Part15C	Sub-clause of IC	Verdict
Maximum Peak Output Power	15.407 (a)	/	P
Peak Power Spectral Density	15.407 (a)	/	P
6dB Emission Bandwidth	15.407 (e)	/	P
Band Edges Compliance - Conducted& Radiated	15.407 (b)	/	P
Transmitter Spurious Emission - Conducted	15.407	/	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 requested by the client/matrix manufacturer 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 4.1.

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	3.7V
Humidity	44%

7. TEST EQUIPMENTS 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	LISN	ENV216	101200	Rohde & Schwarz	1 year	2024-07-04
3	Test Receiver	ESCI	100344	Rohde & Schwarz	1 year	2024-02-21
4	Attenuator	10dB/2W	/	Rosenberger	/	/
5	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	2023-10-25
2	EMI Antenna	VULB 9163	01222	SCHWARZBECK	1 year	2024-02-28
3	EMI Antenna	3115	6914	ETS-Lindgren	1 year	2024-04-25
4	EMI Antenna	3116	2661	ETS-Lindgren	1 year	2024-01-30

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

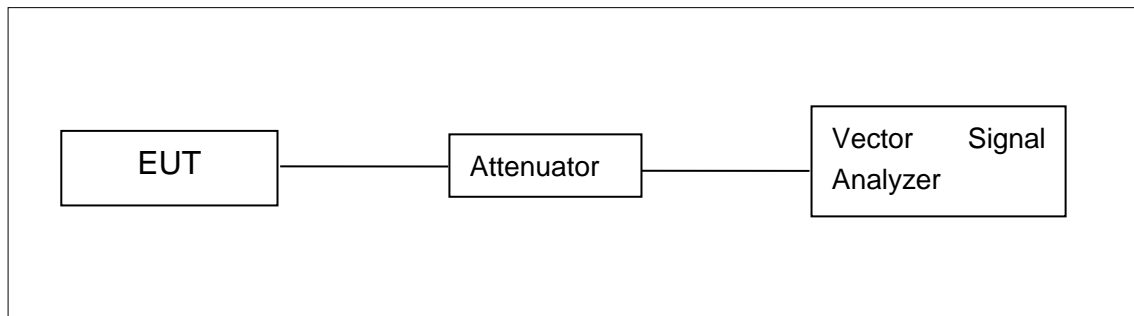
Measurement Uncertainty : 3.08dB,k=2

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

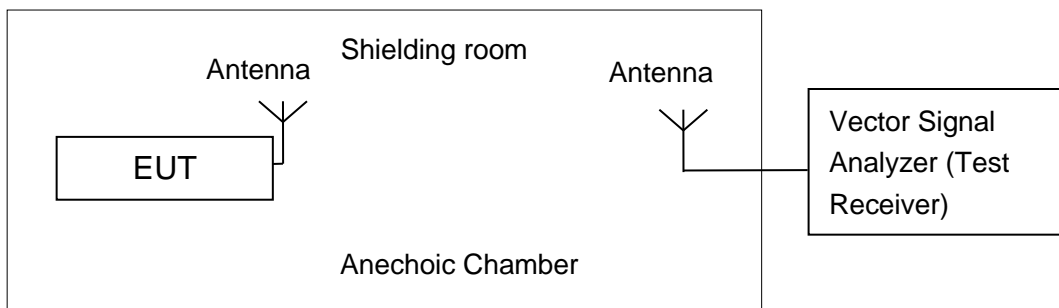


A.1.2. Radiated Emission Measurements

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

A.2.1 Antenna Gain

Antenna gain is -2.6dBi and the value is supplied by the applicant or manufacturer.

A.2.2. Maximum Average Output Power-Conducted

Measurement Results:

802.11a mode

Mode	Data Rate (Mbps)	Test Result (dBm)		
		5745MHz (Ch149)	5785MHz (Ch157)	5825MHz (Ch165)
802.11a	6	18.90	18.61	18.59
	9	/	/	/
	12	/	/	/
	18	/	/	/
	24	/	/	/
	36	/	/	/
	48	/	/	/
	54	/	/	/

The data rate 6Mbps is selected as worst condition, and the following cases are performed with this condition.

802.11n-HT20 mode

Mode	Data Rate (Index)	Test Result (dBm)		
		5745MHz (Ch149)	5785MHz (Ch157)	5825MHz (Ch165)
802.11n (20MHz)	MCS0	16.80	16.68	16.61
	MCS1	/	/	/
	MCS2	/	/	/
	MCS3	/	/	/
	MCS4	/	/	/
	MCS5	/	/	/
	MCS6	/	/	/
	MCS7	/	/	/

The data rate MSC0 is selected as worst condition, and the following cases are performed with this condition.

802.11ac-HT20 mode

Mode	Data Rate (Index)	Test Result (dBm)		
		5745MHz (Ch149)	5785MHz (Ch157)	5825MHz (Ch165)
802.11ac (20MHz)	MCS0	14.96	14.56	14.62
	MCS1	/	/	/
	MCS2	/	/	/
	MCS3	/	/	/
	MCS4	/	/	/
	MCS5	/	/	/
	MCS6	/	/	/
	MCS7	/	/	/
	MCS8	/	/	/

The data rate MSC0 is selected as worst condition, and the following cases are performed with this condition.

802.11n-HT40 mode

Mode	Data Rate (Index)	Test Result (dBm)	
		5755MHz (Ch151)	5795MHz (Ch159)
802.11n (40MHz)	MCS0	14.67	14.29
	MCS1	/	/
	MCS2	/	/
	MCS3	/	/
	MCS4	/	/
	MCS5	/	/
	MCS6	/	/
	MCS7	/	/

The data rate MSC0 is selected as worst condition, and the following cases are performed with this condition.

802.11ac-HT40 mode

Mode	Data Rate (Index)	Test Result (dBm)	
		5755MHz (Ch151)	5795MHz (Ch159)
802.11ac (40MHz)	MCS0	14.50	14.23
	MCS1	/	/
	MCS2	/	/
	MCS3	/	/
	MCS4	/	/
	MCS5	/	/
	MCS6	/	/
	MCS7	/	/

	MCS8	/	/
	MCS9	/	/

The data rate MSC0 is selected as worst condition, and the following cases are performed with this condition.

802.11ac-HT80 mode

Mode	Data Rate (Index)	Test Result (dBm)
		5775MHz (Ch155)
802.11ac (80MHz)	MCS0	14.31
	MCS1	/
	MCS2	/
	MCS3	/
	MCS4	/
	MCS5	/
	MCS6	/
	MCS7	/
	MCS8	/
	MCS9	/

The data rate MSC0 is selected as worst condition, and the following cases are performed with this condition.

The duty cycle of all mode are 100%.

Conclusion: PASS

A.3. Peak Power Spectral Density

Measurement Limit:

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

The measurement is made according to ANSI C63.10 and KDB789033 D02

Measurement Uncertainty:

Measurement Uncertainty	0.75dB
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Measurement Results:

Mode	Channel	Power Spectral Density (dBm/500kHz)	Conclusion
802.11a	149	5.76	P
	157	5.55	P
	165	5.54	P
802.11n HT20	149	3.46	P
	157	3.48	P
	165	3.56	P
802.11n HT40	151	-1.46	P
	159	-1.77	P
802.11ac HT80	155	-5.45	P

Conclusion: PASS

A.4. 6dB Emission Bandwidth

Measurement Limit:

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

The measurement is made according to KDB789033 D02 .

Measurement Uncertainty:

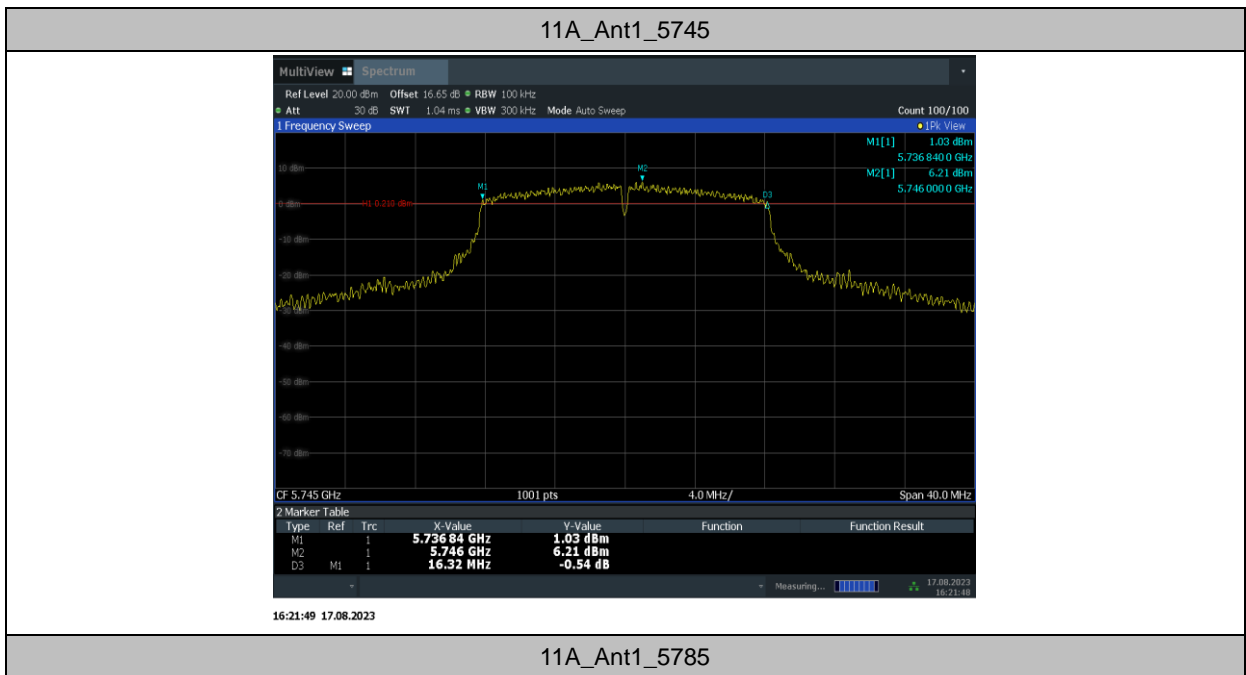
Measurement Uncertainty	60.80Hz
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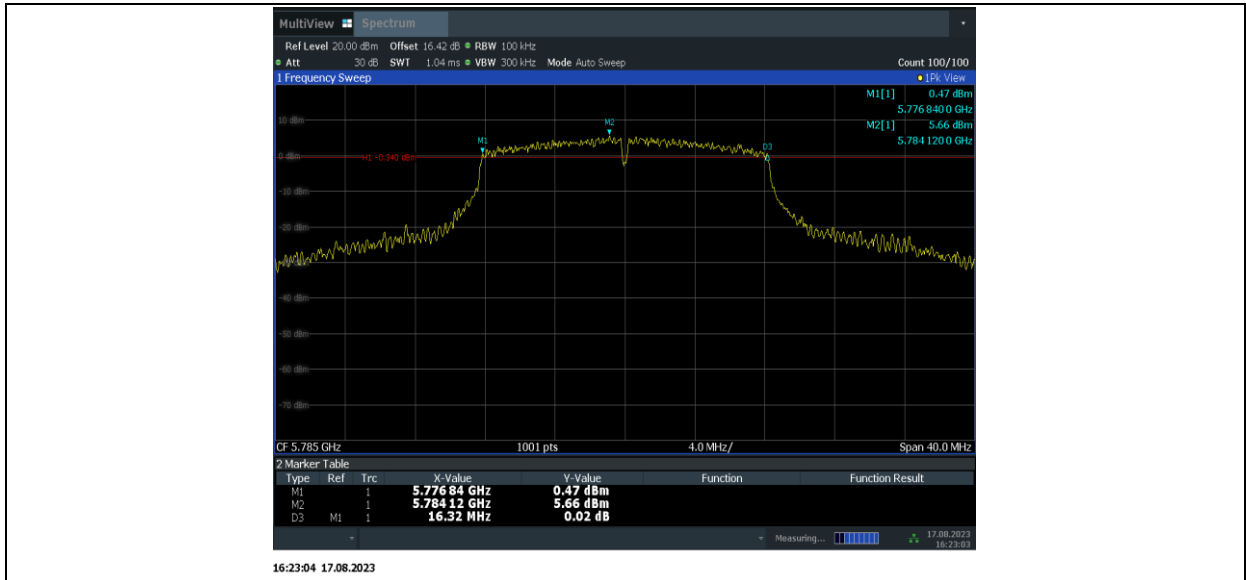
Test Result

TestMode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.32	5736.84	5753.16	0.5	PASS
		5785	16.32	5776.84	5793.16	0.5	PASS
		5825	16.32	5816.84	5833.16	0.5	PASS
11N20SISO	Ant1	5745	17.56	5736.20	5753.76	0.5	PASS
		5785	17.56	5776.20	5793.76	0.5	PASS
		5825	17.60	5816.20	5833.80	0.5	PASS
11N40SISO	Ant1	5755	36.08	5736.84	5772.92	0.5	PASS
		5795	36.08	5776.84	5812.92	0.5	PASS
11AC80SISO	Ant1	5775	76.32	5736.76	5813.08	0.5	PASS

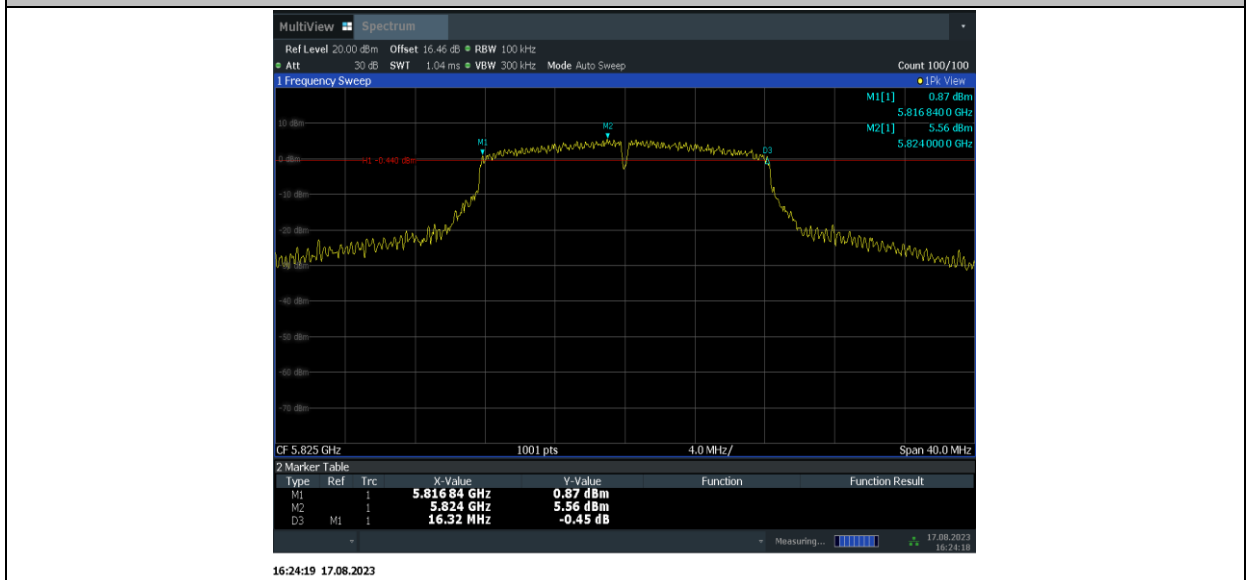
Conclusion: PASS

Test Graphs

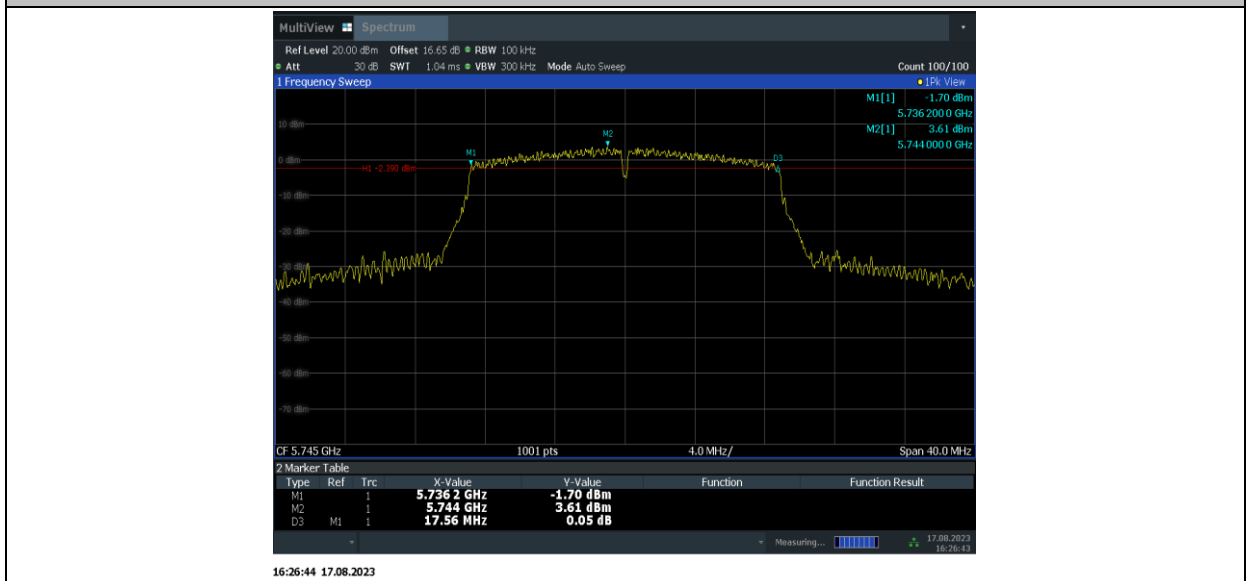




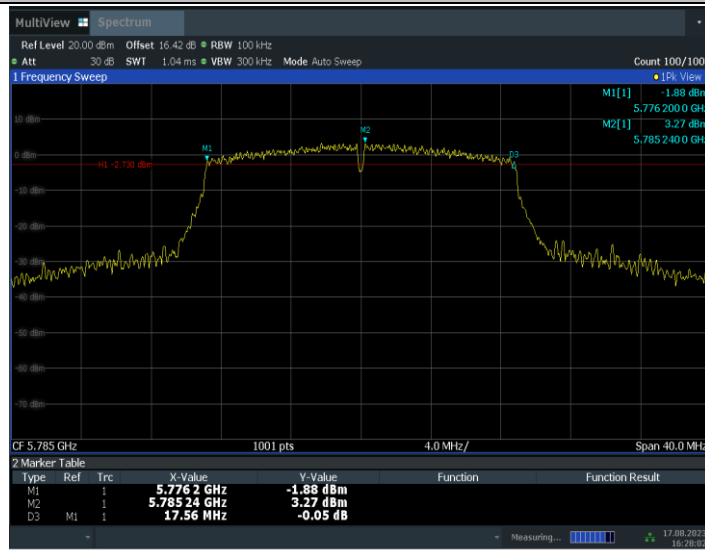
11A_Ant1_5825



11N20SISO_Ant1_5745

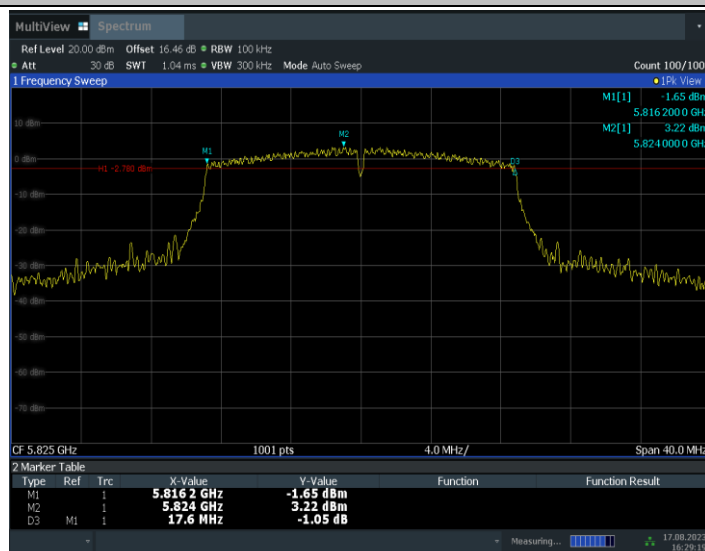


11N20SISO_Ant1_5785



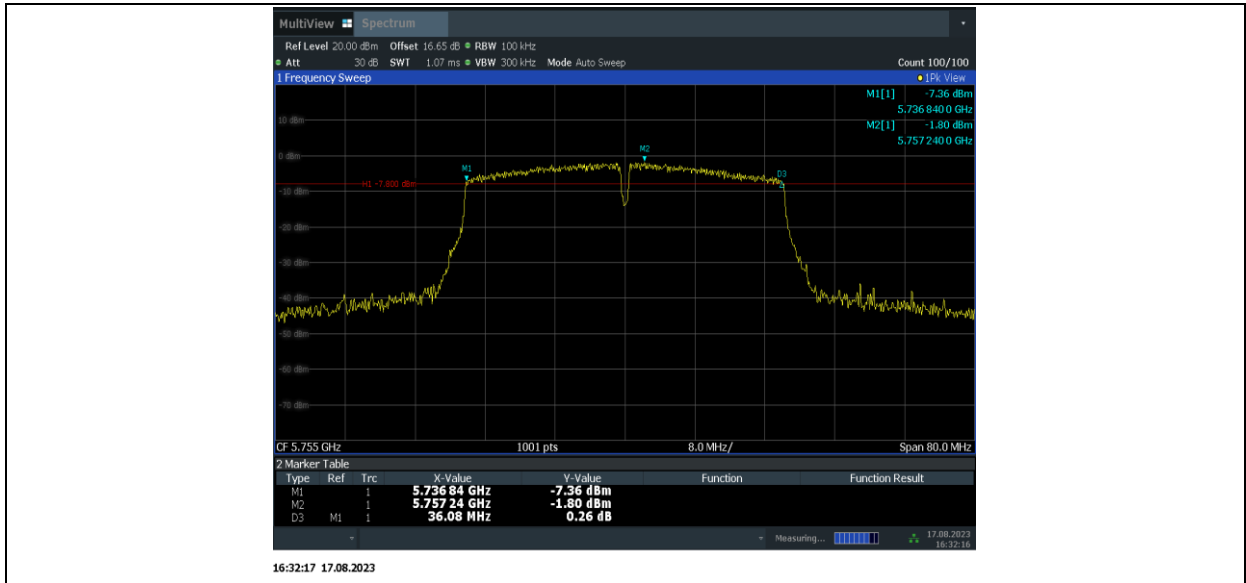
16:28:03 17.08.2023

11N20SISO_Ant1_5825



16:29:19 17.08.2023

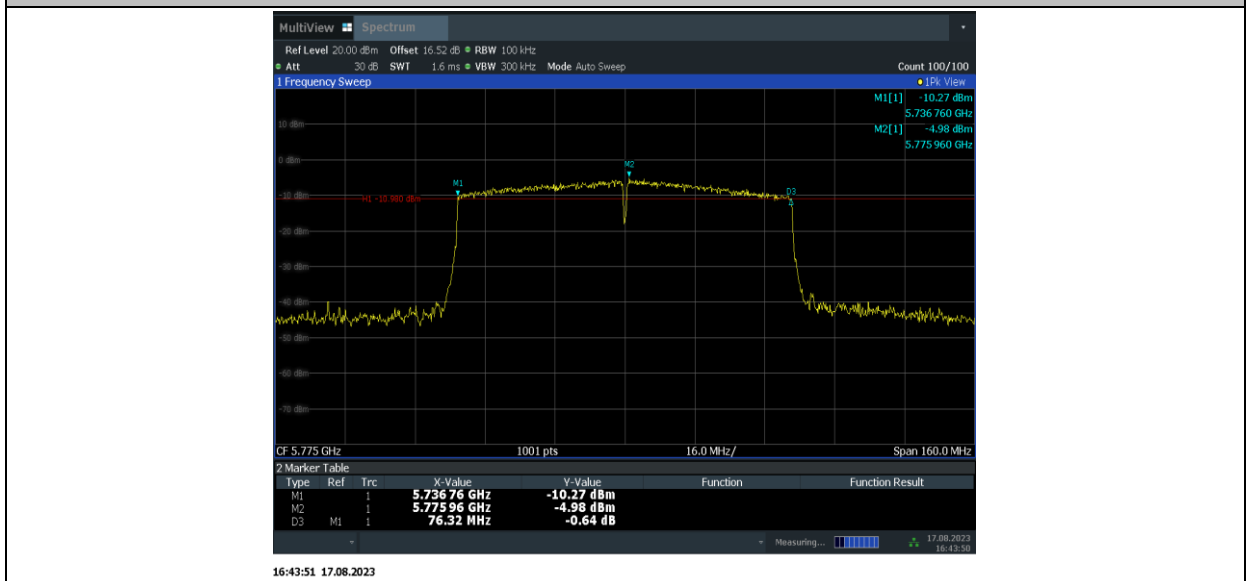
11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



11AC80SISO_Ant1_5775



A.5. Transmitter Spurious Emission

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)).

Frequency of emission (MHz)	Field strength(uV/m)	Field strength(dBuV/m)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

Measurement Uncertainty:

Frequency Range	Uncertainty(dB)
30MHz ≤ f ≤ 2GHz	0.63
2GHz ≤ f ≤ 3.6GHz	0.82
3.6GHz ≤ f ≤ 8GHz	1.55
8GHz ≤ f ≤ 20GHz	1.86
20GHz ≤ f ≤ 22GHz	1.90
22GHz ≤ f ≤ 26GHz	2.20

A.5.1 Transmitter Spurious Emission - 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

Measurement Results:

802.11a mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11a	149	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	157	30 MHz ~ 1 GHz	---	P
		1 GHz ~ 3 GHz	---	P

		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz~ 40 GHz	---	P
	165	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P

802.11n-HT20 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n (HT20)	149	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	157	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
	165	26.5 GHz~ 40 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P

802.11n-HT40 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n (HT40)	151	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz~ 40 GHz	---	P
	159	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P

802.11ac-HT20 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11ac (HT20)	149	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	157	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P

	165	26.5 GHz~ 40 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P

802.11ac-HT40 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11ac (HT40)	151	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz~ 40 GHz	---	P
	159	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P

802.11ac-HT80 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11ac (HT80)	155	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz~ 40 GHz	---	P

Conclusion: PASS

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.

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)
17949.767	40.21	-29.59	45.95	23.85	54.00	13.79	V
17951.967	40.10	-29.59	45.95	23.74	54.00	13.90	V
12220.233	37.15	-32.12	38.90	30.37	54.00	16.85	H
12329.500	36.83	-32.39	38.95	30.27	54.00	17.17	V
8331.367	33.83	-34.93	37.20	31.56	54.00	20.17	V
8277.833	33.75	-34.84	37.10	31.48	54.00	20.25	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)
17935.467	40.79	-29.59	45.95	24.43	54.00	13.21	H
17976.533	40.56	-29.59	45.95	24.20	54.00	13.44	V
12331.700	37.09	-32.39	38.95	30.53	54.00	16.91	V
12332.800	36.87	-32.39	38.95	30.31	54.00	17.13	H
8487.933	33.93	-34.28	37.30	30.91	54.00	20.07	V
8272.700	33.68	-34.84	37.10	31.41	54.00	20.32	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)
17979.100	40.42	-29.59	45.95	24.06	54.00	13.58	H
17938.767	40.34	-29.59	45.95	23.98	54.00	13.66	V
12332.800	37.30	-32.39	38.95	30.74	54.00	16.70	H
12331.333	36.98	-32.39	38.95	30.42	54.00	17.02	H
8498.567	34.03	-34.28	37.30	31.01	54.00	19.97	H
8279.667	33.97	-34.84	37.10	31.70	54.00	20.03	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)
17939.500	40.69	-29.59	45.95	24.33	54.00	13.31	V
17932.167	40.56	-29.59	45.95	24.20	54.00	13.44	V
12331.700	36.86	-32.39	38.95	30.30	54.00	17.14	H
12332.800	36.82	-32.39	38.95	30.26	54.00	17.18	V
8290.300	34.46	-34.84	37.10	32.19	54.00	19.54	V
9421.467	33.87	-33.60	37.90	29.57	54.00	20.13	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)
17979.100	41.65	-29.59	45.95	25.29	54.00	12.35	V
17935.467	41.21	-29.59	45.95	24.85	54.00	12.79	H
12331.700	37.63	-32.39	38.95	31.07	54.00	16.37	V
12290.267	37.07	-32.12	39.00	30.19	54.00	16.93	V
8498.200	34.24	-34.28	37.30	31.22	54.00	19.76	V
8493.800	33.85	-34.28	37.30	30.83	54.00	20.15	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)
17950.500	40.77	-29.59	45.95	24.41	54.00	13.23	H
17940.600	40.65	-29.59	45.95	24.29	54.00	13.35	H
12308.233	36.94	-32.12	39.00	30.06	54.00	17.06	V
11990.700	36.93	-32.66	39.00	30.59	54.00	17.07	H
8253.633	34.06	-34.48	37.00	31.54	54.00	19.94	H
8285.533	34.02	-34.84	37.10	31.75	54.00	19.98	H

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)
17976.533	40.82	-29.59	45.95	24.46	54.00	13.18	V
17943.167	40.65	-29.59	45.95	24.29	54.00	13.35	V
12332.067	37.89	-32.39	38.95	31.33	54.00	16.11	V
12332.800	36.68	-32.39	38.95	30.12	54.00	17.32	H
8497.100	34.05	-34.28	37.30	31.03	54.00	19.95	H
8029.967	34.03	-34.89	36.90	32.02	54.00	19.97	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)
17979.100	40.82	-29.59	45.95	24.46	54.00	13.18	V
17975.067	40.59	-29.59	45.95	24.23	54.00	13.41	V
12306.033	36.96	-32.12	39.00	30.08	54.00	17.04	V
12329.867	36.90	-32.39	38.95	30.34	54.00	17.10	V
8271.967	33.74	-34.84	37.10	31.47	54.00	20.26	V
8272.700	33.66	-34.84	37.10	31.39	54.00	20.34	H

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)
17979.467	40.85	-29.59	45.95	24.49	54.00	13.15	V
17981.667	40.75	-29.59	45.95	24.39	54.00	13.25	H
12330.967	36.89	-32.39	38.95	30.33	54.00	17.11	V
12328.400	36.86	-32.39	38.95	30.30	54.00	17.14	H
8290.300	34.07	-34.84	37.10	31.80	54.00	19.93	V
8332.467	33.79	-34.93	37.20	31.52	54.00	20.21	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)
17938.400	40.81	-29.59	45.95	24.45	54.00	13.19	H
17936.567	40.48	-29.59	45.95	24.12	54.00	13.52	H
12332.067	36.96	-32.39	38.95	30.40	54.00	17.04	H
12332.800	36.86	-32.39	38.95	30.30	54.00	17.14	V
8319.633	34.12	-34.93	37.20	31.85	54.00	19.88	H
8483.900	34.04	-34.28	37.30	31.02	54.00	19.96	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)
17977.633	40.83	-29.59	45.95	24.47	54.00	13.17	H
17975.067	40.80	-29.59	45.95	24.44	54.00	13.20	V
12331.700	36.74	-32.39	38.95	30.18	54.00	17.26	H
12265.333	36.56	-32.37	38.95	29.98	54.00	17.44	V
8292.133	33.93	-34.84	37.10	31.66	54.00	20.07	V
8483.900	33.88	-34.28	37.30	30.86	54.00	20.12	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)
17979.833	40.65	-29.59	45.95	24.29	54.00	13.35	V
17949.767	40.51	-29.59	45.95	24.15	54.00	13.49	V
12328.400	36.90	-32.39	38.95	30.34	54.00	17.10	V
12332.433	36.82	-32.39	38.95	30.26	54.00	17.18	H
8357.767	33.95	-34.93	37.20	31.68	54.00	20.05	V
8464.833	33.69	-34.69	37.40	30.98	54.00	20.31	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)
17956.000	40.49	-29.59	45.95	24.13	54.00	13.51	V
17968.467	40.39	-29.59	45.95	24.03	54.00	13.61	H
12331.700	37.23	-32.39	38.95	30.67	54.00	16.77	H
12263.500	36.86	-32.37	38.95	30.28	54.00	17.14	H
8495.633	34.11	-34.28	37.30	31.09	54.00	19.89	H
8479.867	33.96	-34.28	37.30	30.94	54.00	20.04	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)
17836.467	41.27	-29.59	45.95	24.91	54.00	12.73	H
17951.967	40.48	-29.59	45.95	24.12	54.00	13.52	H
12332.800	37.63	-32.39	38.95	31.07	54.00	16.37	H
12224.633	37.27	-32.12	38.90	30.49	54.00	16.73	V
8493.433	33.74	-34.28	37.30	30.72	54.00	20.26	H
8498.200	33.70	-34.28	37.30	30.68	54.00	20.30	V

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)
17975.433	49.07	-29.59	45.95	32.71	74.00	24.93	V
17972.867	48.95	-29.59	45.95	32.59	74.00	25.05	V
12080.533	45.07	-32.38	38.90	38.55	74.00	28.93	V
11992.533	45.04	-32.66	39.00	38.70	74.00	28.96	V
8509.933	43.05	-34.28	37.30	40.03	68.20	25.15	H
10328.967	43.00	-33.88	38.00	38.88	68.20	25.20	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)
17828.400	49.12	-29.59	45.95	32.76	74.00	24.88	V
17972.867	49.12	-29.59	45.95	32.76	74.00	24.88	H
12331.700	45.98	-32.39	38.95	39.42	74.00	28.02	H
12226.467	45.41	-32.12	38.90	38.63	74.00	28.59	V
10143.800	42.87	-34.28	38.10	39.05	68.20	25.33	V
10165.433	42.61	-33.67	38.05	38.23	68.20	25.59	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)
17988.267	49.09	-29.59	45.95	32.73	74.00	24.91	V
17167.300	48.93	-29.31	41.70	36.54	68.20	19.27	H
12331.333	45.42	-32.39	38.95	38.86	74.00	28.58	H
12319.600	45.35	-32.12	39.00	38.47	74.00	28.65	V
10218.233	43.41	-34.09	38.00	39.50	68.20	24.79	V
10218.600	43.41	-34.09	38.00	39.50	68.20	24.79	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)
17932.533	48.90	-29.59	45.95	32.54	74.00	25.10	V
17976.900	48.83	-29.59	45.95	32.47	74.00	25.17	V
12289.167	45.52	-32.12	39.00	38.64	74.00	28.48	H
12331.333	45.17	-32.39	38.95	38.61	74.00	28.83	V
10117.400	42.69	-34.28	38.10	38.87	68.20	25.51	V
8468.500	42.65	-34.28	37.30	39.63	74.00	31.35	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)
16602.267	49.32	-29.22	39.40	39.14	68.20	18.88	H
17958.567	49.03	-29.59	45.95	32.67	74.00	24.97	H
11837.433	46.71	-32.73	39.15	40.29	74.00	27.29	V
12330.600	45.62	-32.39	38.95	39.06	74.00	28.38	H
8494.533	42.99	-34.28	37.30	39.97	74.00	31.01	H
10047.367	42.95	-34.07	38.00	39.02	68.20	25.25	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)
17973.967	49.55	-29.59	45.95	33.19	74.00	24.45	V
17955.633	49.40	-29.59	45.95	33.04	74.00	24.60	H
12258.367	45.98	-32.37	38.95	39.40	74.00	28.02	H
11874.833	45.41	-32.73	39.15	38.99	74.00	28.59	H
10264.800	42.95	-33.82	38.00	38.77	68.20	25.25	H
8033.633	42.78	-34.89	36.90	40.77	74.00	31.22	H

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)
17956.733	48.89	-29.59	45.95	32.53	74.00	25.11	V
17936.567	48.81	-29.59	45.95	32.45	74.00	25.19	V
12010.867	45.16	-32.66	39.00	38.82	74.00	28.84	V
12330.967	45.15	-32.39	38.95	38.59	74.00	28.85	V
10105.300	43.60	-34.28	38.10	39.78	68.20	24.60	H
10257.100	42.74	-33.82	38.00	38.56	68.20	25.46	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)
16864.433	49.16	-29.50	40.00	38.66	68.20	19.04	V
17935.100	48.98	-29.59	45.95	32.62	74.00	25.02	V
12331.700	45.38	-32.39	38.95	38.82	74.00	28.62	V
12221.700	45.36	-32.12	38.90	38.58	74.00	28.64	V
10262.967	43.02	-33.82	38.00	38.84	68.20	25.18	V
10140.133	42.76	-34.28	38.10	38.94	68.20	25.44	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)
17946.100	49.74	-29.59	45.95	33.38	74.00	24.26	V
17972.867	49.62	-29.59	45.95	33.26	74.00	24.38	V
12292.467	45.30	-32.12	39.00	38.42	74.00	28.70	H
12304.933	45.02	-32.12	39.00	38.14	74.00	28.98	H
8453.833	42.71	-34.69	37.40	40.00	74.00	31.29	V
9869.900	42.63	-33.78	37.90	38.51	68.20	25.57	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)
17934.000	50.02	-29.59	45.95	33.66	74.00	23.98	V
17975.433	49.54	-29.59	45.95	33.18	74.00	24.46	H
11360.033	45.23	-33.31	38.85	39.69	74.00	28.77	V
12253.967	45.17	-32.37	38.95	38.59	74.00	28.83	V
10236.567	42.97	-34.09	38.00	39.06	68.20	25.23	V
8007.233	42.67	-35.07	36.90	40.84	68.20	25.53	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)
16839.867	48.89	-29.50	40.00	38.39	68.20	19.31	V
17981.667	48.89	-29.59	45.95	32.53	74.00	25.11	H
11995.467	45.12	-32.66	39.00	38.78	74.00	28.88	H
12330.600	44.97	-32.39	38.95	38.41	74.00	29.03	H
10099.067	42.87	-34.28	38.10	39.05	68.20	25.33	V
10248.667	42.61	-33.82	38.00	38.43	68.20	25.59	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)
17477.500	49.04	-29.07	44.55	33.56	68.20	19.16	V
16854.167	49.01	-29.50	40.00	38.51	68.20	19.19	V
12331.333	47.17	-32.39	38.95	40.61	74.00	26.83	H
12266.800	46.38	-32.37	38.95	39.80	74.00	27.62	V
10150.033	43.41	-33.67	38.05	39.03	68.20	24.79	H
10241.333	42.72	-34.09	38.00	38.81	68.20	25.48	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)
17982.400	49.53	-29.59	45.95	33.17	74.00	24.47	V
17973.233	48.97	-29.59	45.95	32.61	74.00	25.03	V
12263.867	45.82	-32.37	38.95	39.24	74.00	28.18	H
12307.133	45.45	-32.12	39.00	38.57	74.00	28.55	V
8524.967	43.08	-33.81	37.40	39.49	68.20	25.12	V
10040.400	42.86	-34.07	38.00	38.93	68.20	25.34	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)
16840.233	49.07	-29.50	40.00	38.57	68.20	19.13	V
17929.967	48.92	-29.59	45.95	32.56	74.00	25.08	H
12331.333	45.90	-32.39	38.95	39.34	74.00	28.10	H
12226.833	45.89	-32.12	38.90	39.11	74.00	28.11	H
10246.467	43.42	-34.09	38.00	39.51	68.20	24.78	V
8792.633	43.29	-34.23	37.90	39.62	68.20	24.91	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.	

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

Conclusion: PASS

Test graphs as below:

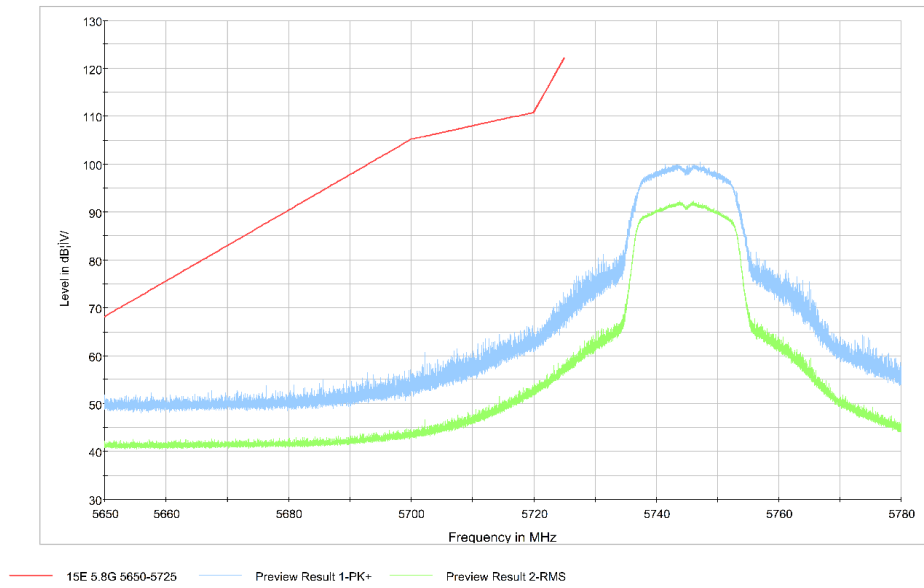


Fig. 1 Band Edges (802.11a Ch149,5745MHz)

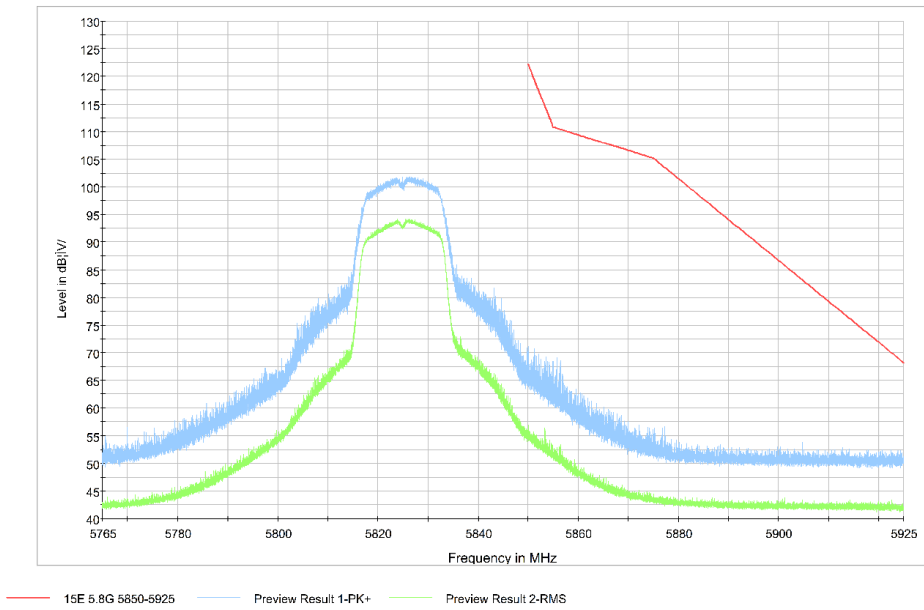


Fig. 2 Band Edges (802.11a Ch165, 5825MHz)

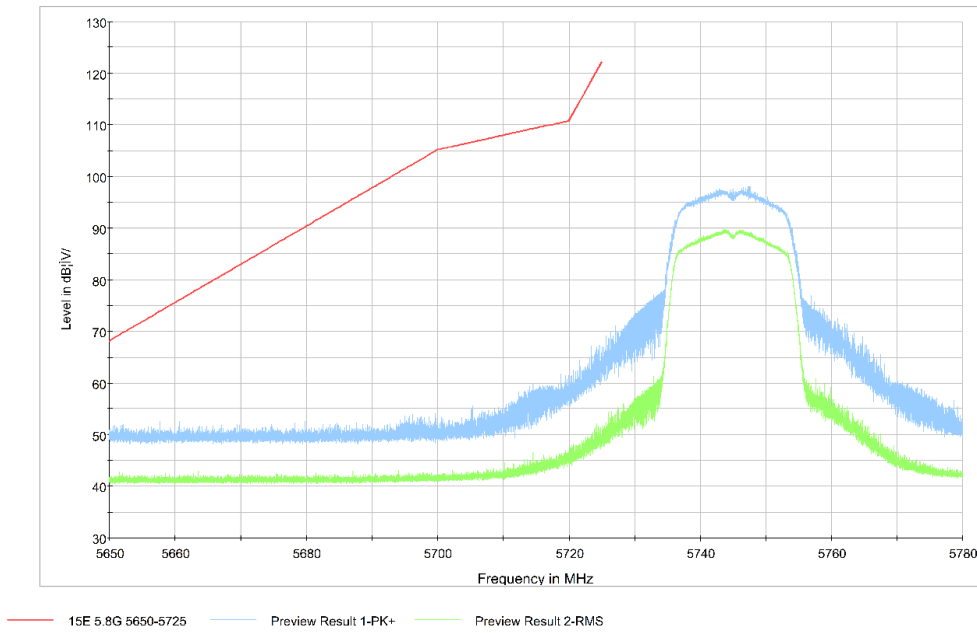


Fig. 3 Band Edges (802.11n-HT20 Ch149, 5745MHz)

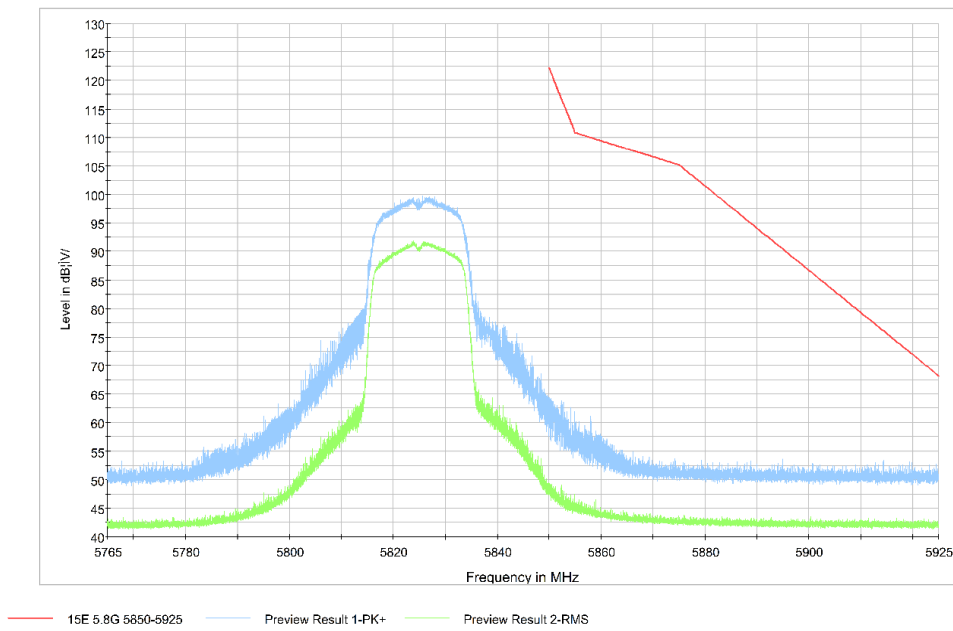


Fig. 4 Band Edges (802.11n-HT20 Ch165, 5825MHz)

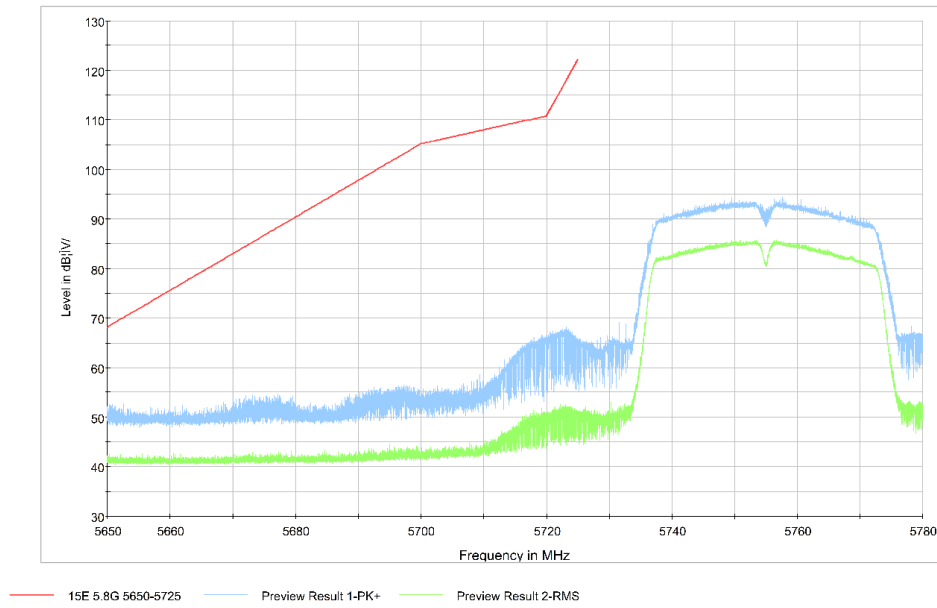


Fig. 5 Band Edges (802.11n-HT40 Ch151, 5755MHz)

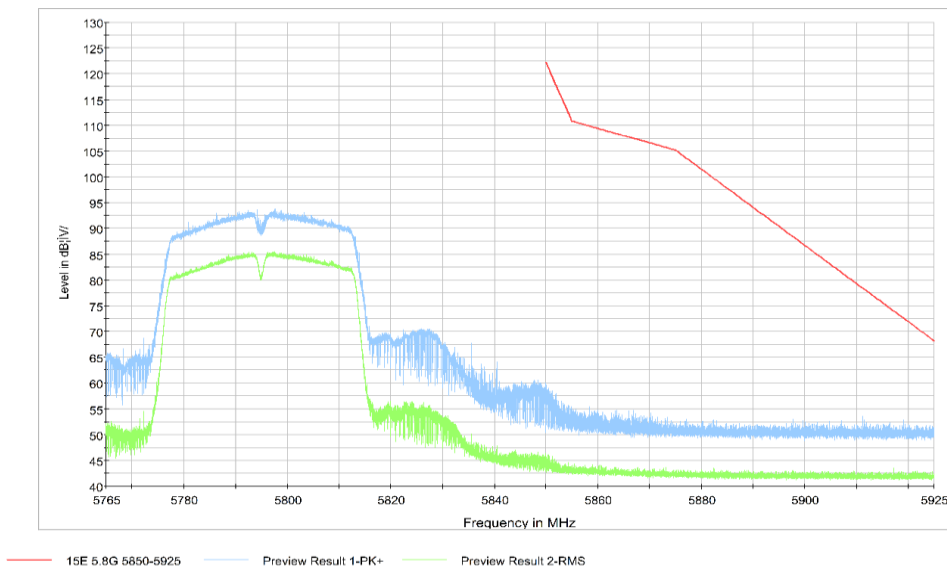


Fig. 6 Band Edges (802.11n-HT40 Ch159, 5795MHz)

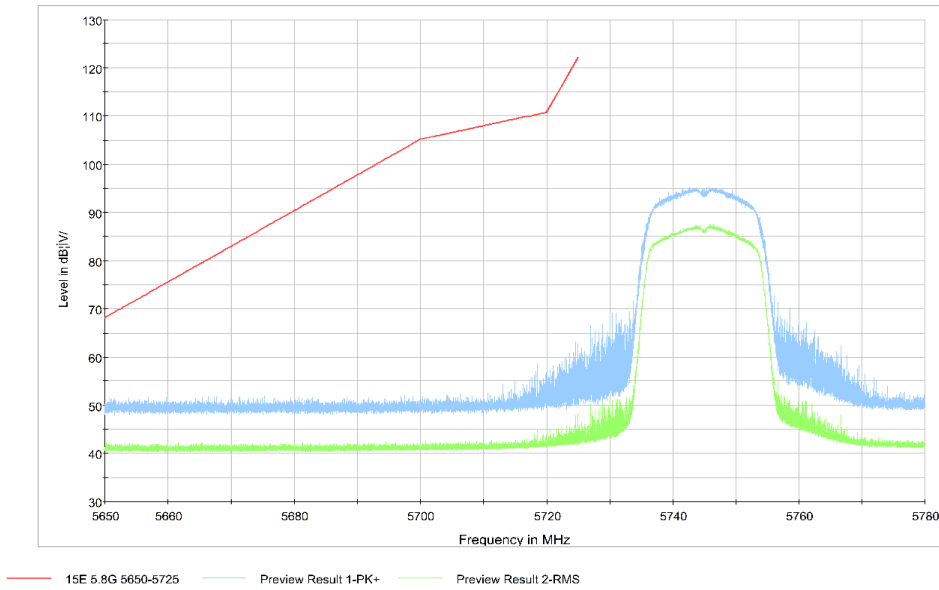


Fig. 7 Band Edges (802.11ac-HT20 Ch149, 5745MHz)

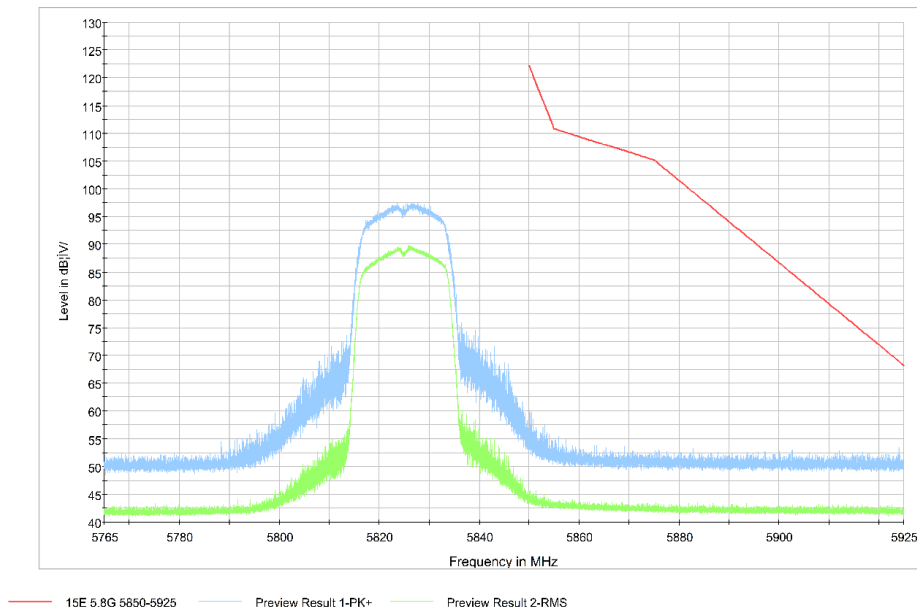


Fig. 8 Band Edges (802.11ac-HT20 Ch165, 5825MHz)

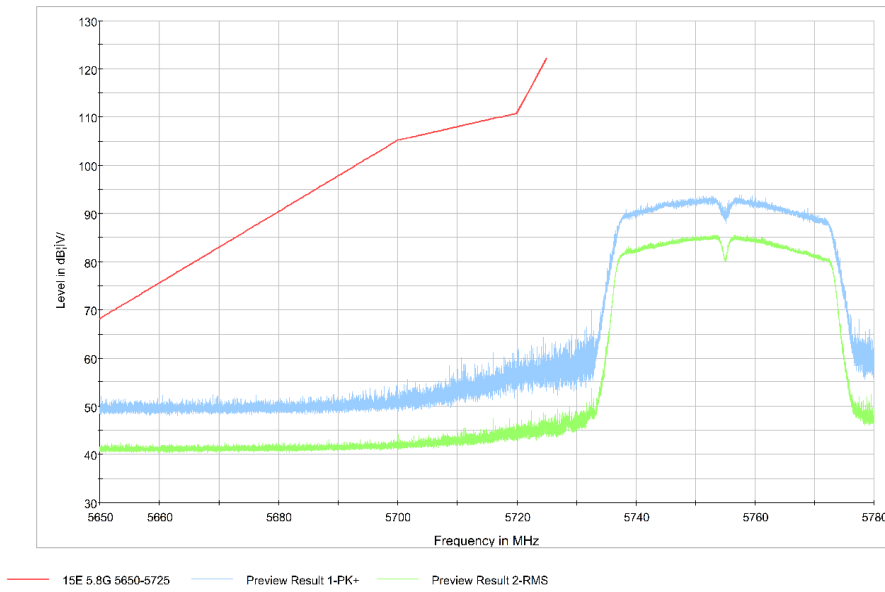


Fig. 9 Band Edges (802.11ac-HT40 Ch151, 5755MHz)

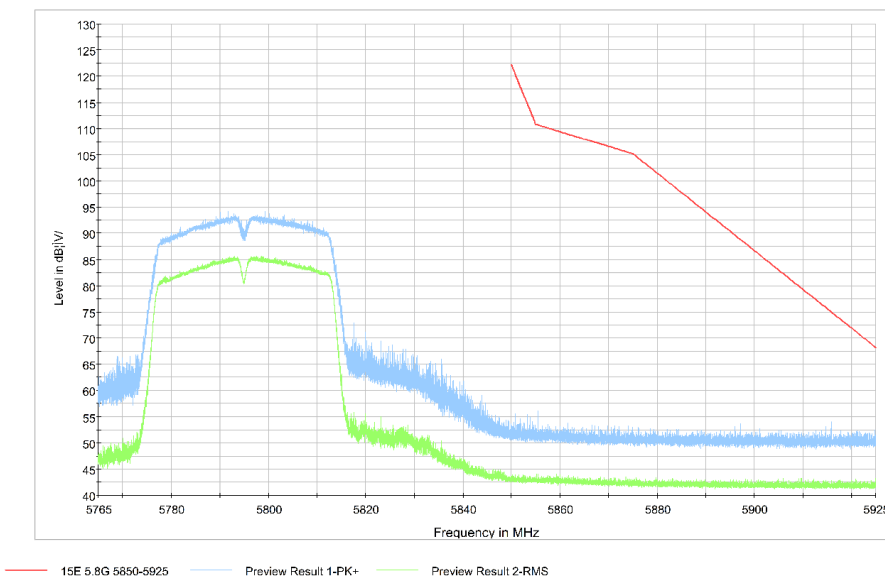


Fig. 10 Band Edges (802.11ac-HT40 Ch159, 5795MHz)

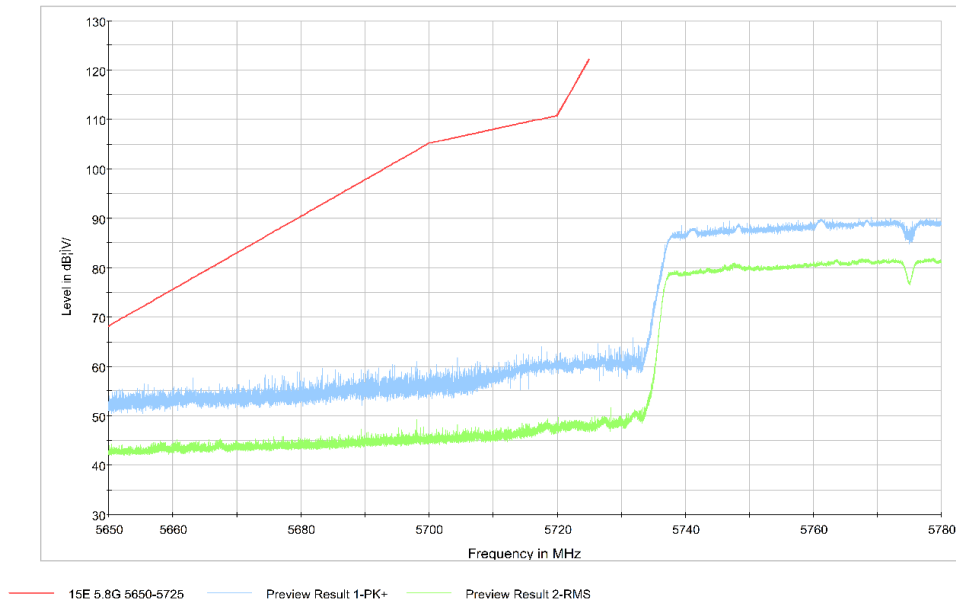


Fig. 11 Band Edges (802.11ac-HT80 Ch155, 5775MHz)

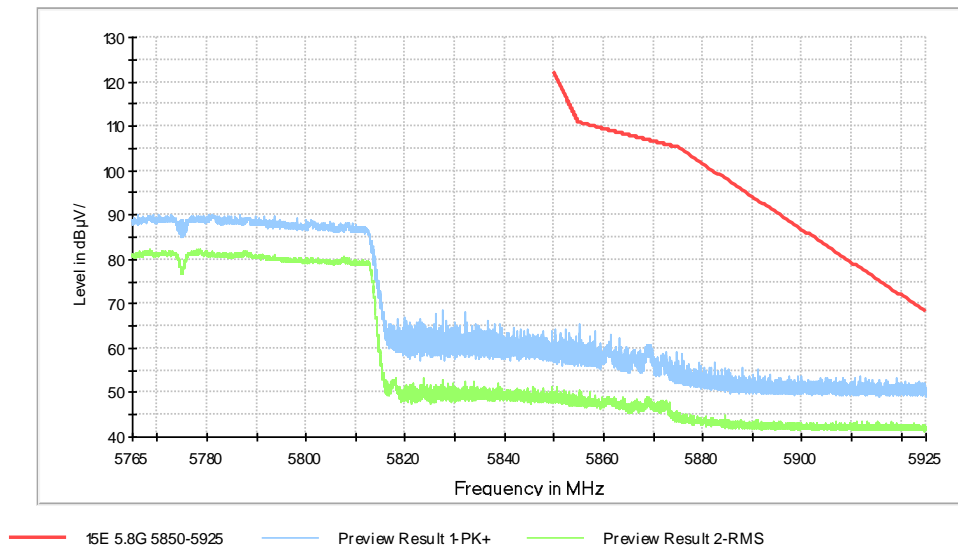


Fig. 12 Band Edges (802.11ac-HT80, 5775MHz)

A.7. AC Powerline Conducted Emission

Test Condition:

Voltage (V)	Frequency (Hz)
120	60

Measurement uncertainty:

Expanded measurement uncertainty for this test item is $U = 3.08\text{dB}$, $k=2$.

Measurement Result and limit:

WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Result (dB μ V)		Conclusion
		With charger		
		802.11a	Idle	
0.15 to 0.5	66 to 56	Fig.13	Fig.14	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		
		802.11a	Idle	
0.15 to 0.5	56 to 46	Fig.13	Fig.14	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:

Traffic:

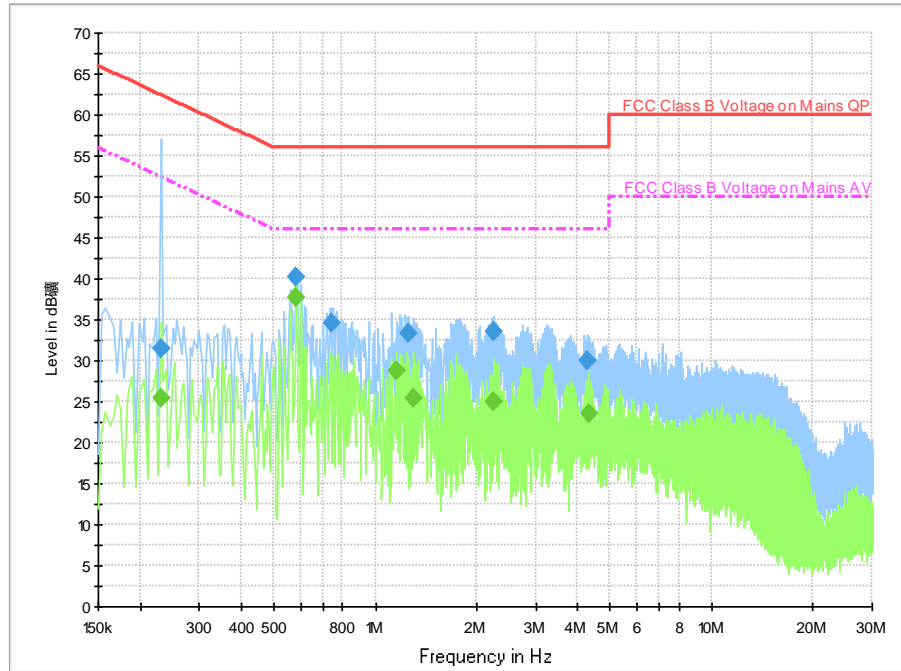


Fig. 13 AC Power line Conducted Emission-802.11a

Note1: The graphic result above is the maximum of the measurements for both phase line and neutral line.

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.230000	31.5	2000.	9.000	On	L1	19.7	30.9	62.4	
0.582000	40.3	2000.	9.000	On	L1	19.7	15.7	56.0	
0.746000	34.6	2000.	9.000	On	L1	19.7	21.4	56.0	
1.250000	33.4	2000.	9.000	On	L1	19.6	22.6	56.0	
2.254000	33.5	2000.	9.000	On	L1	19.6	22.5	56.0	
4.290000	30.0	2000.	9.000	On	L1	19.6	26.0	56.0	

Final Result 2

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.230000	25.4	2000.	9.000	On	L1	19.7	27.0	52.4	
0.582000	37.7	2000.	9.000	On	L1	19.7	8.3	46.0	
1.162000	28.7	2000.	9.000	On	L1	19.7	17.3	46.0	
1.294000	25.3	2000.	9.000	On	L1	19.7	20.7	46.0	
2.254000	25.0	2000.	9.000	On	L1	19.6	21.0	46.0	
4.306000	23.5	2000.	9.000	On	L1	19.6	22.5	46.0	

Note2: The measurement results showed here are worst cases of the combinations of different cables and chargers

Idle:

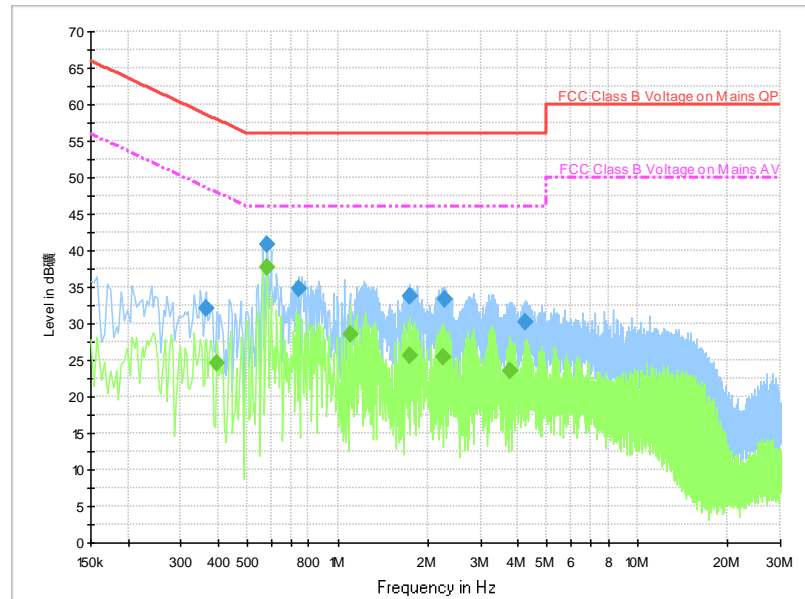


Fig. 14 AC Power line Conducted Emission-Idle

Note1: The graphic result above is the maximum of the measurements for both phase line and neutral line.

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.366000	32.2	2000.	9.000	On	L1	19.7	26.4	58.6	
0.578000	40.8	2000.	9.000	On	L1	19.7	15.2	56.0	
0.746000	34.7	2000.	9.000	On	L1	19.7	21.3	56.0	
1.738000	33.8	2000.	9.000	On	L1	19.6	22.2	56.0	
2.286000	33.2	2000.	9.000	On	L1	19.6	22.8	56.0	
4.218000	30.1	2000.	9.000	On	L1	19.6	25.9	56.0	

Final Result 2

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.394000	24.6	2000.0	9.000	On	L1	19.7	23.3	48.0	
0.582000	37.7	2000.0	9.000	On	L1	19.7	8.3	46.0	
1.098000	28.4	2000.0	9.000	On	L1	19.6	17.6	46.0	
1.738000	25.6	2000.0	9.000	On	L1	19.6	20.4	46.0	
2.242000	25.5	2000.0	9.000	On	L1	19.6	20.5	46.0	
3.766000	23.6	2000.0	9.000	On	L1	19.6	22.4	46.0	

Note2: The measurement results showed here are worst cases of the combinations of different cables and chargers

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 McInturff, 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 ***