



FCC PART 15C TEST REPORT No.I21Z62272-IOT03

for

TCL Communication Ltd.

GSM/UMTS/LTE mobile phone

T701DL,T671G

With

FCC ID: 2ACCJN055

Hardware Version: PIO

Software Version: vC47

Issued Date: 2022-01-20

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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REPORT HISTORY

Report Number	Revision	Description	Issue Date
I21Z62272-IOT03	Rev.0	1st edition	2022-01-20

CONTENTS

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

A.3. PEAK POWER SPECTRAL DENSITY	16
A.4. OCCUPIED 6dB BANDWIDTH	16
A.5. TRANSMITTER SPURIOUS EMISSION	21
A.5.1 TRANSMITTER SPURIOUS EMISSION - RADIATED	21
A.6. BAND EDGES COMPLIANCE	34
A6.1 BAND EDGES - RADIATED	34
FIG. 10 BAND EDGES (802.11A CH149,5745MHz).....	35
FIG. 11 BAND EDGES (802.11A CH165, 5825MHz).....	35
FIG. 12 BAND EDGES (802.11N-HT20 CH149, 5745MHz).....	35
FIG. 13 BAND EDGES (802.11N-HT20 CH165, 5825MHz).....	36
FIG. 14 BAND EDGES (802.11N-HT40 CH151, 5755MHz).....	36
FIG. 15 BAND EDGES (802.11N-HT40 CH159, 5795MHz).....	36
FIG. 16 BAND EDGES (802.11AC-HT20 CH149, 5745MHz).....	37
FIG. 17 BAND EDGES (802.11AC-HT20 CH165, 5825MHz).....	37
FIG. 18 BAND EDGES (802.11AC-HT40 CH151, 5755MHz).....	37
FIG. 19 BAND EDGES (802.11AC-HT40 CH159, 5795MHz).....	38
FIG. 20 BAND EDGES (802.11AC-HT40 CH159, 5795MHz).....	38
FIG. 21 BAND EDGES (802.11AC-HT80, 5775MHz).....	39
A.7. AC POWERLINE CONDUCTED EMISSION	40
FIG. 22 AC POWER LINE CONDUCTED EMISSION-802.11A	41
FIG. 23 AC POWER LINE CONDUCTED EMISSION-IDLE.....	42
ANNEX B: EUT PARAMETERS.....	43
ANNEX C: ACCREDITATION CERTIFICATE	43

1. TEST LATORATORY

1.1. Introduction & Accreditation

Telecommunication Technology Labs, CAICT is an ISO/IEC 17025:2017 accredited test laboratory under NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP) with lab code 600118-0, and is also an FCC accredited test laboratory (CN5017), and ISED accredited test laboratory (ISED#: 24849). The detail accreditation scope can be found on NVLAP website.

1.2. Testing Location

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

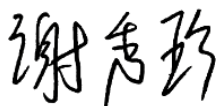
Relative Humidity: 20-75%

1.4. Project date

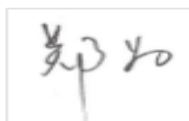
Testing Start Date: 2021-11-23

Testing End Date: 2022-1-20

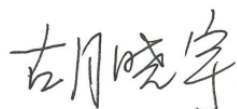
1.5. Signature



Xie Xiuzhen
(Prepared this test report)



Zheng Wei
(Reviewed this test report)



Hu Xiaoyu
(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
Park, Shatin, NT, Hong Kong
City: Hong Kong
Postal Code: /
Country: China
Telephone: 0086-755-36645759
Fax: 0086-755-36612000-81722

2.2. Manufacturer Information

Company Name: TCL Communication Ltd.
Address: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science
Park, Shatin, NT, Hong Kong
City: Hong Kong
Postal Code: /
Country: China
Telephone: 0086-755-36645759
Fax: 0086-755-36612000-81722

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

3.1. About EUT

Description	GSM/UMTS/LTE mobile phone
Model name	T701DL,T671G
FCC ID	2ACCJN055
WLAN Frequency Band	ISM Band: 5725MHz~5850MHz
Type of modulation	OFDM
Voltage	3.85 V

3.2. Internal Identification of EUT used during the test

EUT ID*	IMEI	HW Version	SW Version
UT34a	016054000028638	PIO	vC47
UT19a	016054000024538	PIO	vC47

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

3.3. Internal Identification of AE used during the test

AE ID*	Description	Type	SN
AE1	Battery	/	/
AE2	USB Cable	/	/
AE3	Charger	/	/

AE1

Model	TLp048A7
Manufacturer	VEKEN
Capacity	4850mAh
Nominal Voltage	3.85V

AE2

Model	CDA00001721C1
Manufacturer	JUWEI
Length of cable	/

AE3

Model	QC13US
Manufacturer	BYD
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 GSM/UMTS/LTE 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;	2018
	15.209 Radiated emission limits, general requirements;	
	15.407 General technical requirements	
ANSI C63.10	Methods of Measurement of Radio-Noise Emissions from	2013
	Low-Voltage Electrical and Electronic Equipment in the	
	Range of 9 kHz to 40 GHz	
UNII: KDB 789033 D02	General U-NII Test Procedures New Rules v02r01	2017-12
KDB 558074 D01	Federal Communications Commission Office of	2019
	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	

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
Occupied 6dB 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/manufacture 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	3.85 V
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	2022-05-24
2	Test Receiver	ESCI	100344	R&S	1 year	2022-02-23
3	LISN	ENV216	101200	R&S	1 year	2022-05-30
4	Shielding Room	S81	/	ETS-Lindgren	/	/

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	Test Receiver	ESU 26	100235	R&S	1 year	2022-02-23
2	EMI Antenna	VULB 9163	01223	SCHWARZBECK	1 year	2022-03-22
3	EMI Antenna	3115	6914	ETS-Lindgren	1 year	2022-02-23

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. Occupied 6dB 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	/
$30\text{MHz} \leq f \leq 1\text{GHz}$	5.16
$1\text{GHz} \leq f \leq 18\text{GHz}$	5.44
$18\text{GHz} \leq f \leq 40\text{GHz}$	5.28

8.6. AC Power-line Conducted Emission

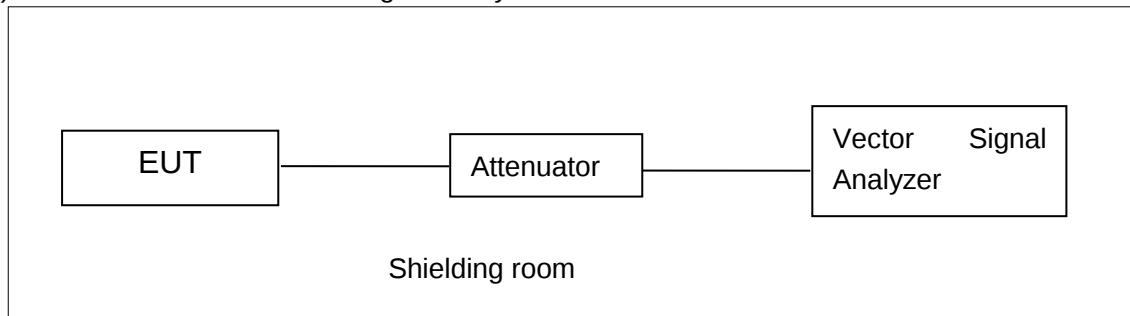
Measurement Uncertainty : 3.08dB,k=2

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

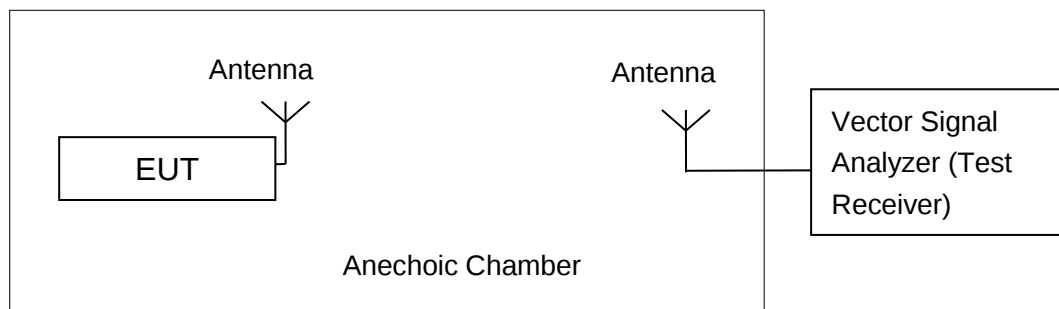


A.1.2. Radiated Emission Measurements

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 = 10Hz;



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 -0.75 dBi and the value is supplied by the applicant or manufacturer.

A.2.2. Maximum Peak Output Power-conducted

Measurement Results:

802.11a mode

Mode	Data Rate (Mbps)	Test Result (dBm)		
		5745MHz (Ch149)	5785MHz (Ch157)	5825MHz (Ch165)
802.11a	6	16.98	17.17	17.89
	9	/	/	/
	12	/	/	/
	18	/	/	/
	24	/	/	/
	36	/	/	/
	48	/	/	/
	54	/	/	/

The data rate 6 Mbps is selected as worse 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	17.98	17.64	17.88
	MCS1	/	/	/
	MCS2	/	/	/
	MCS3	/	/	/
	MCS4	/	/	/
	MCS5	/	/	/
	MCS6	/	/	/
	MCS7	/	/	/

The data rate MCS0 is selected as worse 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	17.95	17.39	17.58
	MCS1	/	/	/
	MCS2	/	/	/
	MCS3	/	/	/
	MCS4	/	/	/
	MCS5	/	/	/
	MCS6	/	/	/
	MCS7	/	/	/
	MCS8	/	/	/

The data rate MCS0 is selected as worse 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	17.73	17.43
	MCS1	/	/
	MCS2	/	/
	MCS3	/	/
	MCS4	/	/
	MCS5	/	/
	MCS6	/	/
	MCS7	/	/

The data rate MCS0 is selected as worse 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	17.36	17.51
	MCS1	/	/
	MCS2	/	/
	MCS3	/	/
	MCS4	/	/
	MCS5	/	/
	MCS6	/	/
	MCS7	/	/

	MCS8	/	/
	MCS9	/	/

The data rate MCS0 is selected as worse 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	17.17
	MCS1	/
	MCS2	/
	MCS3	/
	MCS4	/
	MCS5	/
	MCS6	/
	MCS7	/
	MCS8	/
	MCS9	/

The data rate MCS0 is selected as worse 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	4.58	P
	157	4.18	P
	165	4.31	P
802.11n HT20	149	3.48	P
	157	3.85	P
	165	4.04	P
802.11n HT40	151	1.14	P
	159	0.77	P
802.11ac HT80	155	-2.67	P

Conclusion: PASS

A.4. Occupied 6dB 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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Measurement Result:

Mode	Channel	Occupied 6dB Bandwidth (MHz)		conclusion
802.11a	149	Fig.1	16.30	P
	157	Fig.2	16.30	P
	165	Fig.3	16.35	P
802.11n HT20	149	Fig.4	17.60	P
	157	Fig.5	17.55	P
	165	Fig.6	17.60	P
802.11n HT40	151	Fig.7	36.32	P
	159	Fig.8	36.32	P

802.11ac HT80	155	Fig.9	76.32	P
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Conclusion: PASS

Test graphs as below:

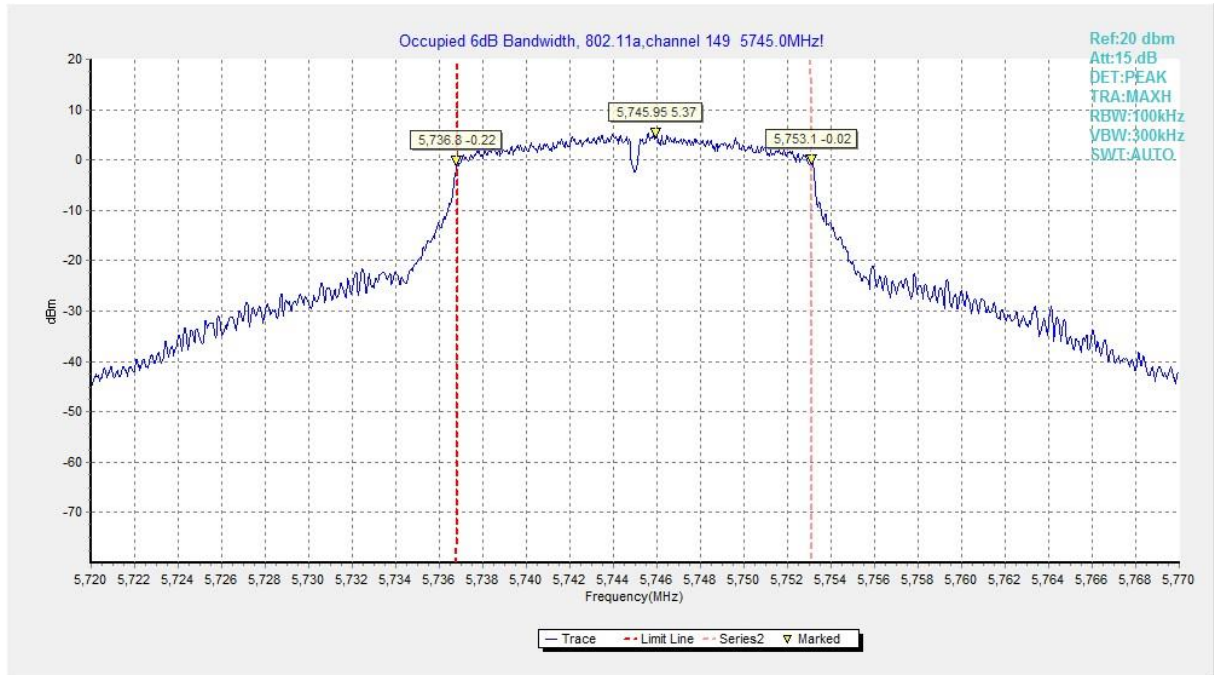


Fig. 1 Occupied 6dB Bandwidth (802.11a, Ch 149)

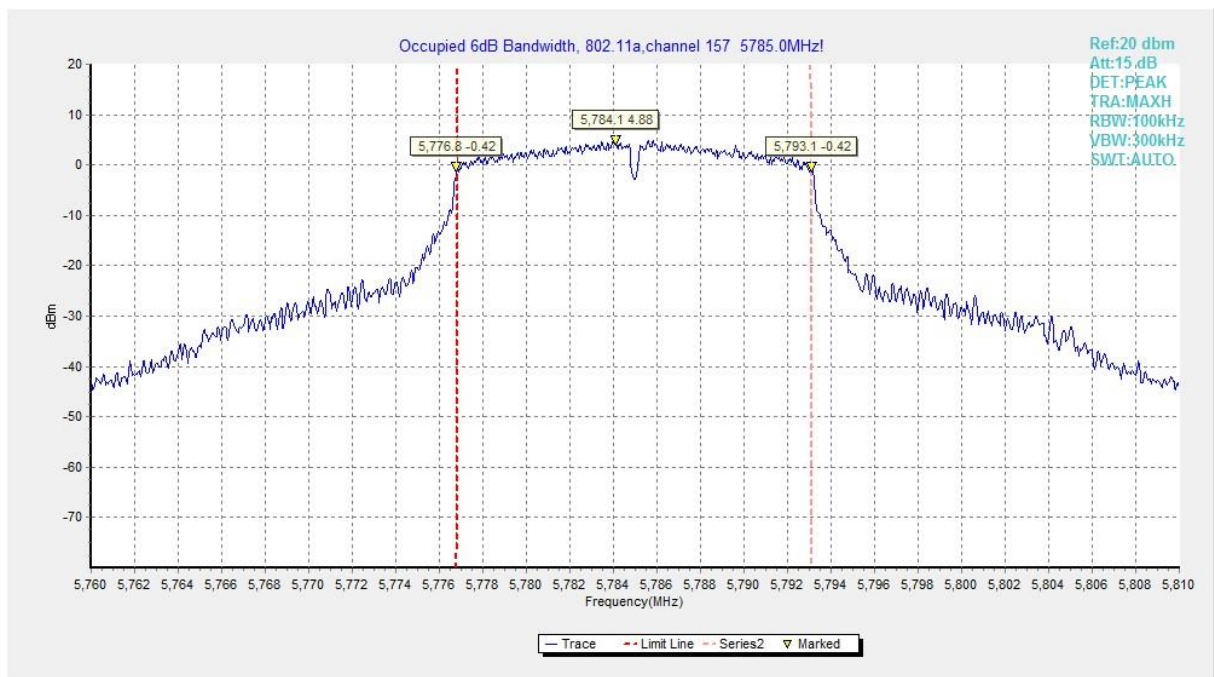


Fig. 2 Occupied 6dB Bandwidth (802.11a, Ch 157)

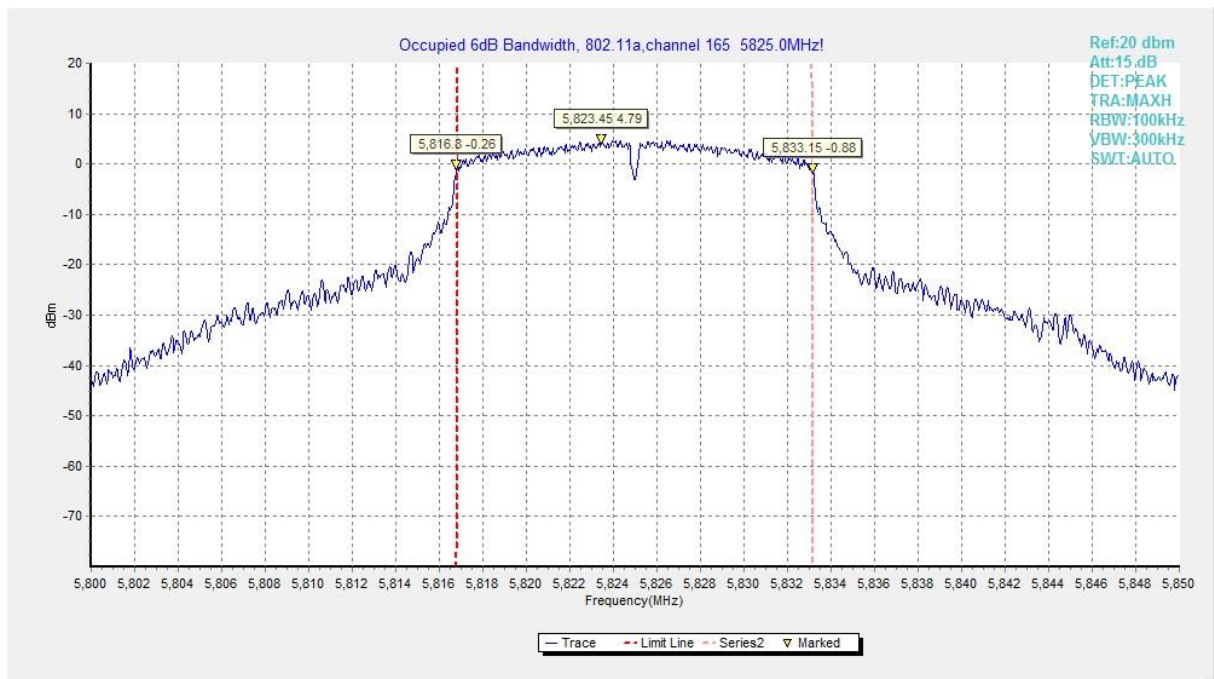


Fig. 3 Occupied 6dB Bandwidth (802.11a, Ch 165)

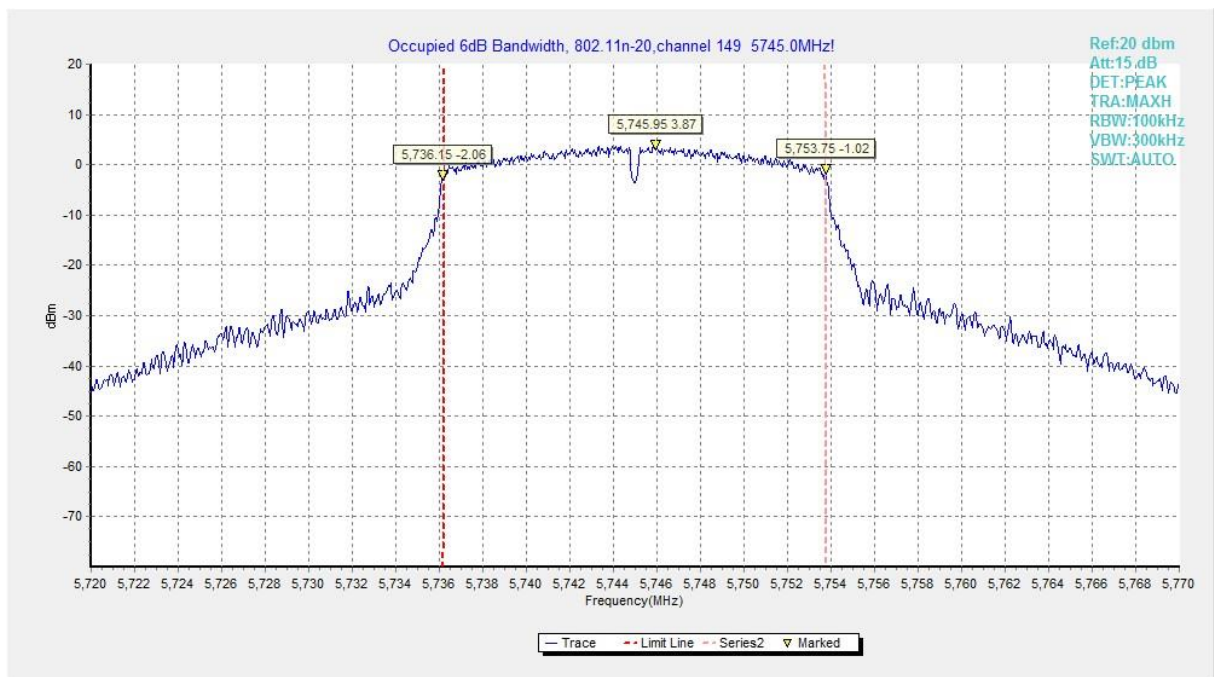


Fig. 4 Occupied 6dB Bandwidth (802.11n-HT20, Ch 149)

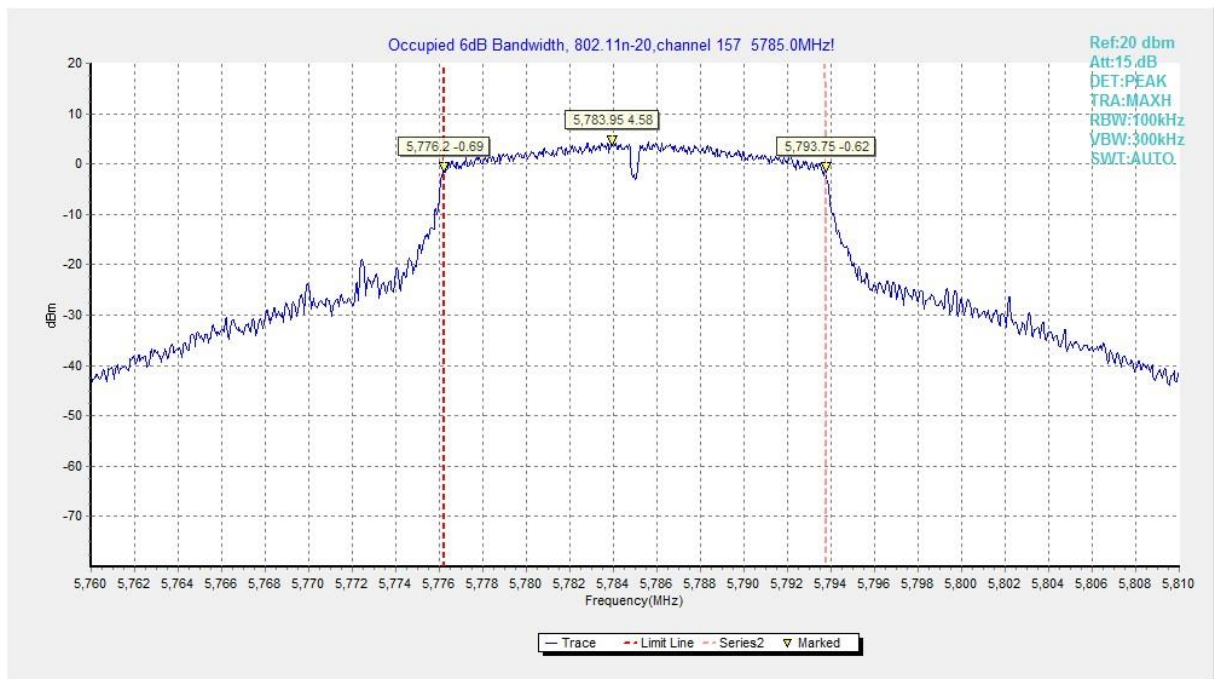


Fig. 5 Occupied 6dB Bandwidth (802.11n-HT20, Ch 157)

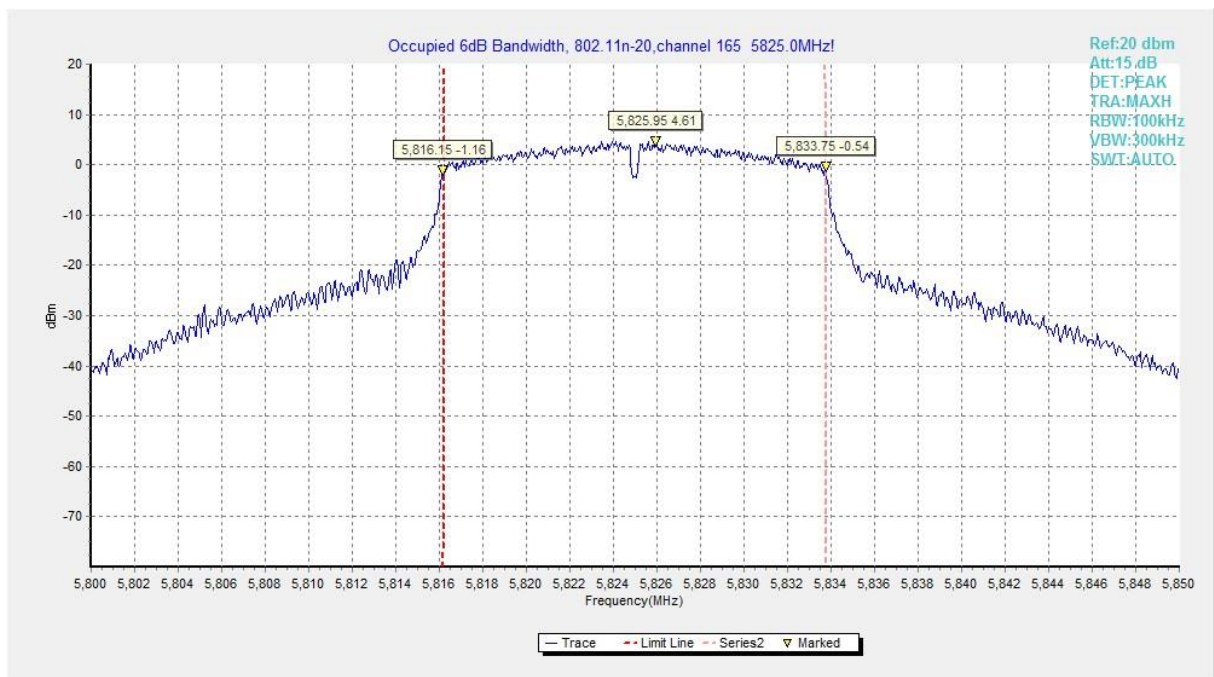


Fig. 6 Occupied 6dB Bandwidth (802.11n-HT20, Ch 165)

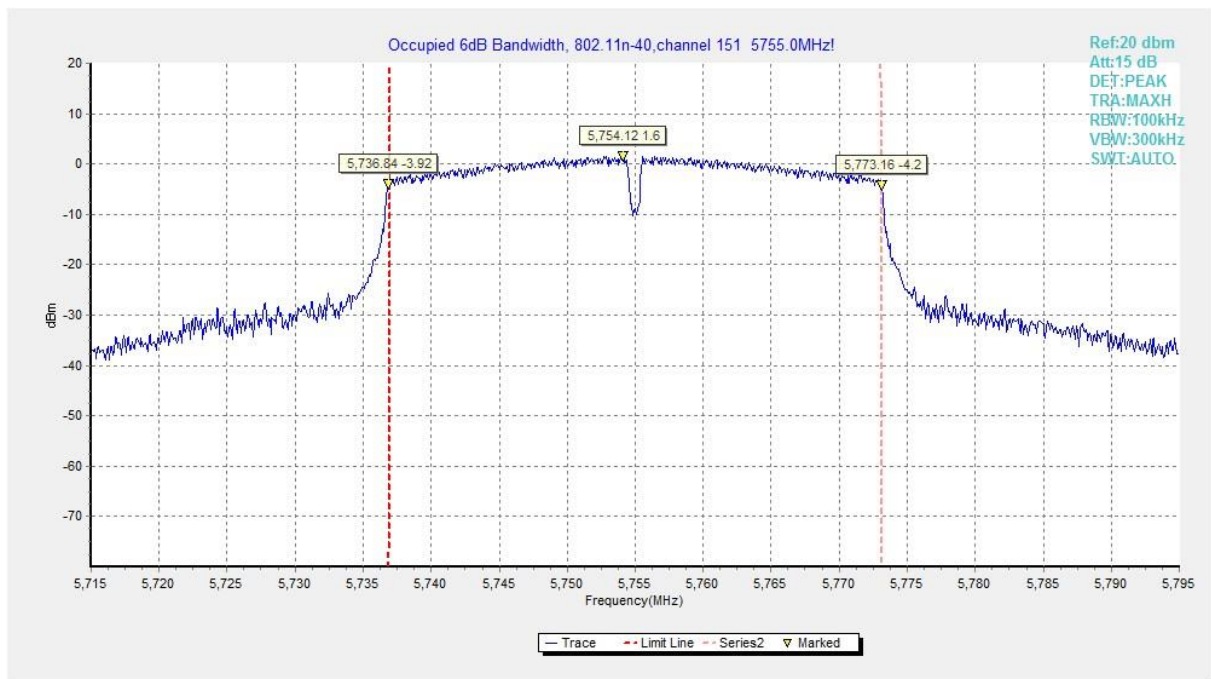


Fig. 7 Occupied 6dB Bandwidth (802.11n-HT40, Ch 151)

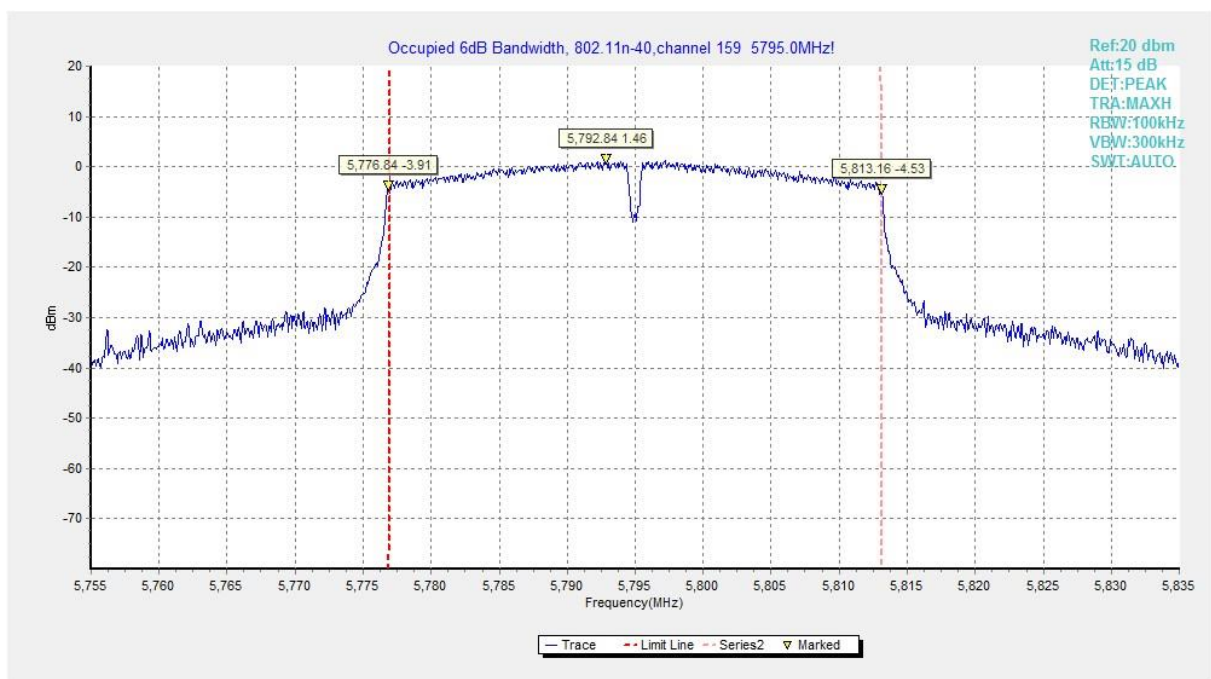


Fig. 8 Occupied 6dB Bandwidth (802.11n-HT40, Ch 159)

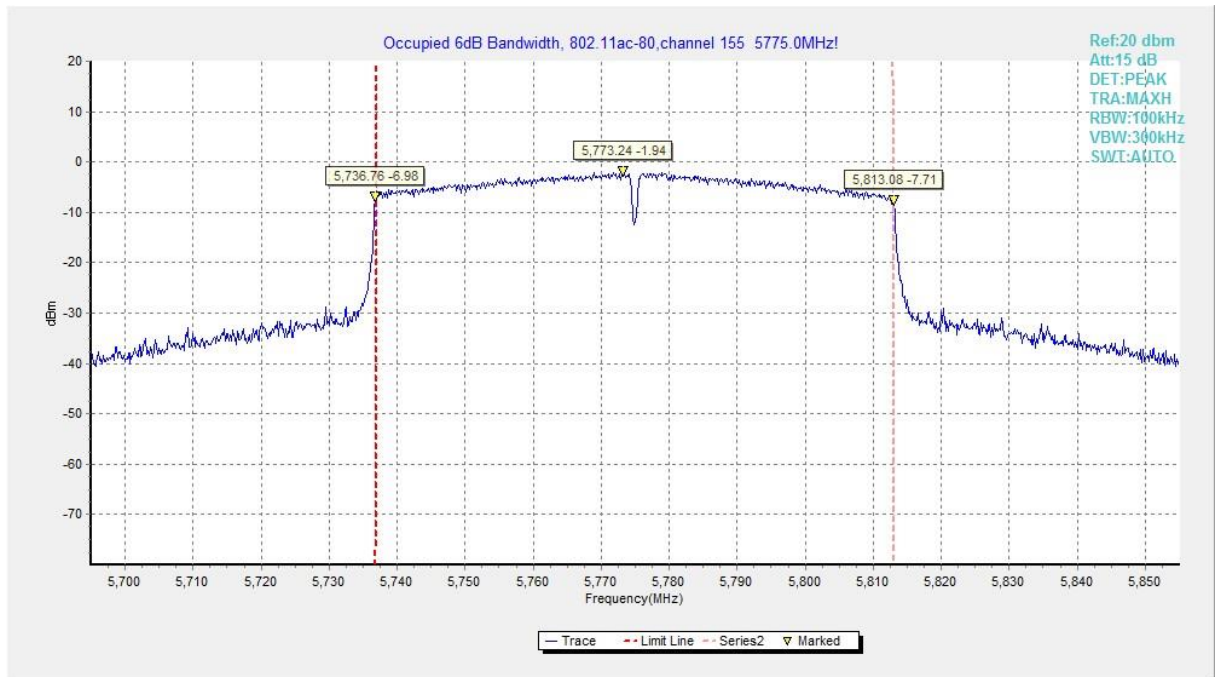


Fig. 9 Occupied 6dB Bandwidth (802.11ac-HT80, Ch 155)

A.5. Transmitter Spurious Emission

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

	165	26.5 GHz~ 40 GHz	---	P
		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
		26.5 GHz~ 40 GHz	---	P
	165	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
		26.5 GHz~ 40 GHz	---	P
	165	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)
17990.100	42.35	-25.50	46.66	21.19	54.00	11.65	H
17991.200	42.33	-25.50	46.66	21.17	54.00	11.67	V
16115.700	37.95	-26.77	38.93	25.79	54.00	16.05	V
13329.400	37.82	-29.49	39.71	27.60	54.00	16.18	V
11792.700	36.36	-31.99	38.98	29.37	54.00	17.64	H
11818.000	36.34	-31.85	39.05	29.14	54.00	17.66	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)
17984.000	42.43	-25.50	46.66	21.27	54.00	11.57	H
17987.900	42.23	-25.50	46.66	21.07	54.00	11.77	V
16143.200	37.85	-26.77	38.93	25.69	54.00	16.15	H
13344.200	37.84	-29.49	39.71	27.62	54.00	16.16	V
11878.500	36.39	-31.85	39.05	29.19	54.00	17.61	H
11819.100	36.36	-31.85	39.05	29.16	54.00	17.64	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)
17994.000	42.48	-25.50	46.66	21.32	54.00	11.52	V
17980.200	42.41	-25.50	46.66	21.25	54.00	11.59	V
13322.800	38.07	-29.49	39.71	27.85	54.00	15.93	H
16142.600	37.95	-26.77	38.93	25.79	54.00	16.05	H
11868.600	36.50	-31.85	39.05	29.30	54.00	17.50	H
11812.500	36.43	-31.85	39.05	29.23	54.00	17.57	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)
17992.800	42.35	-25.50	46.66	21.19	54.00	11.65	H
17974.700	42.28	-25.50	46.66	21.12	54.00	11.72	H
13263.400	37.92	-29.67	39.55	28.04	54.00	16.08	H
16059.600	37.84	-26.77	38.93	25.68	54.00	16.16	V
11911.500	36.36	-31.85	39.05	29.16	54.00	17.64	V
11790.500	36.35	-31.99	38.98	29.36	54.00	17.65	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)
17952.200	42.26	-25.50	46.66	21.10	54.00	11.74	V
17995.000	42.24	-25.50	46.66	21.08	54.00	11.76	H
13331.000	38.00	-29.49	39.71	27.78	54.00	16.00	H
16149.800	37.83	-26.77	38.93	25.67	54.00	16.17	V
11924.200	36.53	-31.48	39.09	28.92	54.00	17.47	V
11824.100	36.48	-31.85	39.05	29.28	54.00	17.52	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)
17996.200	42.43	-25.50	46.66	21.27	54.00	11.57	H
17924.100	42.42	-25.50	46.66	21.26	54.00	11.58	V
13317.900	37.94	-29.49	39.71	27.72	54.00	16.06	H
13270.500	37.90	-29.67	39.55	28.02	54.00	16.10	H
11801.000	36.62	-31.85	39.05	29.42	54.00	17.38	H
11836.200	36.55	-31.85	39.05	29.35	54.00	17.45	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)
17995.000	42.48	-25.50	46.66	21.32	54.00	11.52	H
17984.600	42.45	-25.50	46.66	21.29	54.00	11.55	H
13320.000	38.12	-29.49	39.71	27.90	54.00	15.88	H
13270.500	37.79	-29.67	39.55	27.91	54.00	16.21	V
11903.800	36.38	-31.85	39.05	29.18	54.00	17.62	V
11826.300	36.37	-31.85	39.05	29.17	54.00	17.63	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)
17998.900	42.64	-25.50	46.66	21.48	54.00	11.36	H
17980.800	42.57	-25.50	46.66	21.41	54.00	11.43	H
13352.500	37.78	-29.49	39.71	27.56	54.00	16.22	V
13292.500	37.76	-29.49	39.71	27.54	54.00	16.24	H
11820.800	36.45	-31.85	39.05	29.25	54.00	17.55	H
11808.700	36.40	-31.85	39.05	29.20	54.00	17.60	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)
17976.300	42.52	-25.50	46.66	21.36	54.00	11.48	H
17980.200	42.48	-25.50	46.66	21.32	54.00	11.52	V
13343.100	37.83	-29.49	39.71	27.61	54.00	16.17	V
13331.600	37.82	-29.49	39.71	27.60	54.00	16.18	H
11820.200	36.68	-31.85	39.05	29.48	54.00	17.32	V
11827.400	36.50	-31.85	39.05	29.30	54.00	17.50	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)
17994.000	42.22	-25.50	46.66	21.06	54.00	11.78	H
17998.900	42.21	-25.50	46.66	21.05	54.00	11.79	H
16152.500	37.88	-26.77	38.93	25.72	54.00	16.12	V
16051.900	37.81	-27.35	38.54	26.62	54.00	16.19	V
11838.400	36.55	-31.85	39.05	29.35	54.00	17.45	V
11835.600	36.53	-31.85	39.05	29.33	54.00	17.47	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)
17992.800	42.36	-25.50	46.66	21.20	54.00	11.64	V
17982.400	42.28	-25.50	46.66	21.12	54.00	11.72	V
16135.500	37.97	-26.77	38.93	25.81	54.00	16.03	V
13253.500	37.90	-29.67	39.55	28.02	54.00	16.10	V
11819.700	36.38	-31.85	39.05	29.18	54.00	17.62	V
11874.100	36.33	-31.85	39.05	29.13	54.00	17.67	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)
17981.800	42.29	-25.50	46.66	21.13	54.00	11.71	H
17994.000	42.15	-25.50	46.66	20.99	54.00	11.85	V
16038.700	38.10	-27.35	38.54	26.91	54.00	15.90	H
16133.300	38.10	-26.77	38.93	25.94	54.00	15.90	H
11839.500	36.44	-31.85	39.05	29.24	54.00	17.56	V
11892.300	36.40	-31.85	39.05	29.20	54.00	17.60	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)
17963.700	42.69	-25.50	46.66	21.53	54.00	11.31	V
17974.700	42.42	-25.50	46.66	21.26	54.00	11.58	V
16039.800	37.91	-27.35	38.54	26.72	54.00	16.09	V
16048.600	37.85	-27.35	38.54	26.66	54.00	16.15	H
11815.300	36.47	-31.85	39.05	29.27	54.00	17.53	V
11874.700	36.33	-31.85	39.05	29.13	54.00	17.67	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)
17911.500	42.71	-25.50	46.66	21.55	54.00	11.29	V
17991.200	42.71	-25.50	46.66	21.55	54.00	11.29	V
16144.900	39.24	-26.77	38.93	27.08	54.00	14.76	V
16140.500	38.91	-26.77	38.93	26.75	54.00	15.09	V
11823.500	36.99	-31.85	39.05	29.79	54.00	17.01	V
11841.700	36.88	-31.85	39.05	29.68	54.00	17.12	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)
17949.400	54.52	-25.50	46.66	33.36	74.00	19.48	V
17910.900	53.75	-25.50	46.66	32.59	74.00	20.25	H
16699.200	51.93	-26.87	40.65	38.15	68.30	16.37	V
16482.500	51.71	-26.96	39.82	38.85	68.30	16.59	H
11891.700	48.02	-31.85	39.05	40.82	74.00	25.98	V
11937.900	47.88	-31.48	39.09	40.27	74.00	26.12	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)
17989.000	54.02	-25.50	46.66	32.86	74.00	19.98	V
17963.700	53.63	-25.50	46.66	32.47	74.00	20.37	V
16710.800	52.44	-26.62	41.49	37.57	68.30	15.86	V
16925.800	52.06	-26.32	42.36	36.01	68.30	16.24	V
11840.000	48.69	-31.85	39.05	41.49	74.00	25.31	H
11862.000	48.09	-31.85	39.05	40.89	74.00	25.91	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)
17970.800	54.17	-25.50	46.66	33.01	74.00	19.83	V
17979.700	54.02	-25.50	46.66	32.86	74.00	19.98	H
16430.300	51.85	-26.96	39.82	38.99	68.30	16.45	V
16683.800	51.67	-26.87	40.65	37.89	68.30	16.63	H
11891.200	48.67	-31.85	39.05	41.47	74.00	25.33	H
11442.400	48.38	-32.42	38.79	42.01	74.00	25.62	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)
17980.800	54.13	-25.50	46.66	32.97	74.00	19.87	H
17983.500	53.72	-25.50	46.66	32.56	74.00	20.28	V
16627.200	51.96	-26.87	40.65	38.18	68.30	16.34	H
16921.500	51.87	-26.32	42.36	35.82	68.30	16.43	H
11885.100	48.12	-31.85	39.05	40.92	74.00	25.88	H
11141.000	48.03	-32.60	38.75	41.89	74.00	25.97	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)
17949.400	54.62	-25.50	46.66	33.46	74.00	19.38	H
17908.200	54.39	-25.50	46.66	33.23	74.00	19.61	H
16551.300	51.39	-26.87	40.65	37.61	68.30	16.91	V
16838.400	51.30	-26.62	41.49	36.43	68.30	17.00	H
11843.300	48.35	-31.85	39.05	41.15	74.00	25.65	H
11787.800	48.01	-31.99	38.98	41.02	74.00	25.99	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)
17948.800	54.05	-25.50	46.66	32.89	74.00	19.95	H
17972.500	54.04	-25.50	46.66	32.88	74.00	19.96	V
16525.500	51.53	-26.96	39.82	38.67	68.30	16.77	V
16533.200	51.49	-26.96	39.82	38.63	68.30	16.81	V
11823.500	48.58	-31.85	39.05	41.38	74.00	25.42	V
11966.500	48.13	-31.48	39.09	40.52	74.00	25.87	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)
17975.200	54.27	-25.50	46.66	33.11	74.00	19.73	V
17810.800	53.75	-25.50	46.66	32.59	74.00	20.25	H
16482.000	51.49	-26.96	39.82	38.63	68.30	16.81	H
13699.000	51.37	-29.10	40.86	39.60	68.30	16.93	V
11779.000	48.26	-31.99	38.98	41.27	74.00	25.74	H
11805.900	47.89	-31.85	39.05	40.69	74.00	26.11	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)
17984.000	53.97	-25.50	46.66	32.81	74.00	20.03	H
17910.900	53.81	-25.50	46.66	32.65	74.00	20.19	V
16425.900	52.03	-26.96	39.82	39.17	68.30	16.27	V
16760.300	51.43	-26.62	41.49	36.56	68.30	16.87	H
11735.000	48.65	-31.99	38.98	41.66	74.00	25.35	H
11752.000	48.19	-31.99	38.98	41.20	74.00	25.81	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)
17931.800	53.83	-25.50	46.66	32.67	74.00	20.17	H
17706.300	53.78	-25.74	45.95	33.57	74.00	20.22	V
16918.200	52.56	-26.32	42.36	36.51	68.30	15.74	V
16582.700	51.45	-26.87	40.65	37.67	68.30	16.85	V
10675.100	48.88	-32.76	38.38	43.26	74.00	25.12	H
11813.100	48.43	-31.85	39.05	41.23	74.00	25.57	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)
17929.000	53.66	-25.50	46.66	32.50	74.00	20.34	V
17600.200	53.63	-25.74	45.95	33.42	68.30	14.67	V
16691.000	52.53	-26.87	40.65	38.75	68.30	15.77	H
16837.300	51.98	-26.62	41.49	37.11	68.30	16.32	H
11477.600	48.00	-32.26	38.84	41.43	74.00	26.00	V
11913.200	47.98	-31.48	39.09	40.37	74.00	26.02	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)
17989.000	54.73	-25.50	46.66	33.57	74.00	19.27	V
17991.800	53.77	-25.50	46.66	32.61	74.00	20.23	H
16896.200	52.17	-26.32	42.36	36.12	68.30	16.13	V
16516.100	51.75	-26.96	39.82	38.89	68.30	16.55	V
10673.500	48.41	-32.76	38.38	42.79	74.00	25.59	V
11845.000	47.82	-31.85	39.05	40.62	74.00	26.18	H

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)
17994.000	54.24	-25.50	46.66	33.08	74.00	19.76	V
17959.300	54.10	-25.50	46.66	32.94	74.00	19.90	H
16553.500	52.00	-26.87	40.65	38.22	68.30	16.30	V
16651.400	51.92	-26.87	40.65	38.14	68.30	16.38	H
11904.900	48.39	-31.85	39.05	41.19	74.00	25.61	V
11863.700	48.13	-31.85	39.05	40.93	74.00	25.87	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)
17947.800	54.23	-25.50	46.66	33.07	74.00	19.77	H
17989.500	53.96	-25.50	46.66	32.80	74.00	20.04	H
13735.300	51.85	-29.10	40.86	40.08	68.30	16.45	V
16501.800	51.63	-26.96	39.82	38.77	68.30	16.67	V
11916.500	47.98	-31.48	39.09	40.37	74.00	26.02	V
11858.200	47.88	-31.85	39.05	40.68	74.00	26.12	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)
17220.100	54.22	-25.95	44.35	35.81	68.30	14.08	H
17965.300	54.13	-25.50	46.66	32.97	74.00	19.87	H
16598.600	52.35	-26.87	40.65	38.57	68.30	15.95	V
16729.500	52.25	-26.62	41.49	37.38	68.30	16.05	H
11853.800	48.56	-31.85	39.05	41.36	74.00	25.44	V
11763.000	48.38	-31.99	38.98	41.39	74.00	25.62	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.10	P
	5825 MHz	Fig.11	P
802.11n HT20	5745 MHz	Fig.12	P
	5825 MHz	Fig.13	P
802.11n HT40	5755 MHz	Fig.14	P
	5795 MHz	Fig.15	P
802.11ac HT20	5745 MHz	Fig.16	P
	5825 MHz	Fig.17	P
802.11ac HT40	5755 MHz	Fig.18	P
	5795 MHz	Fig.19	P
802.11ac HT80	5775 MHz	Fig.20 Fig.21	P

Conclusion: PASS

Test graphs as below:

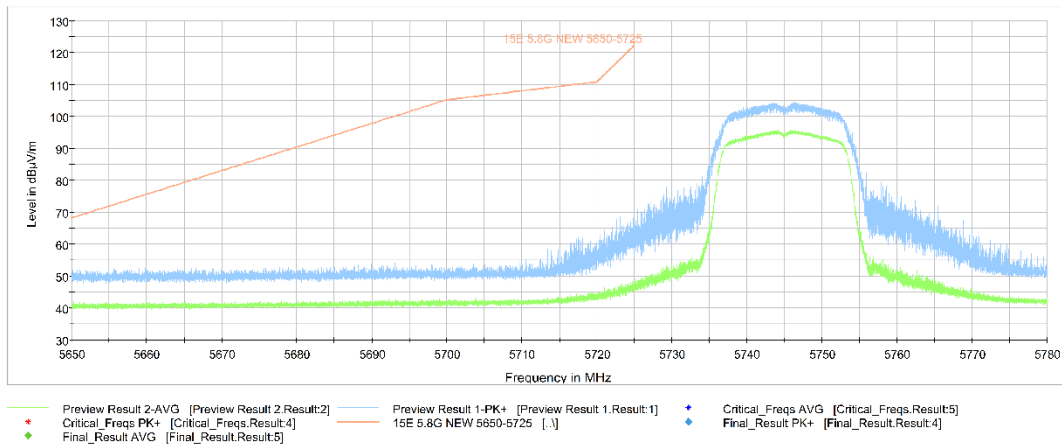


Fig. 10 Band Edges (802.11a Ch149,5745MHz)

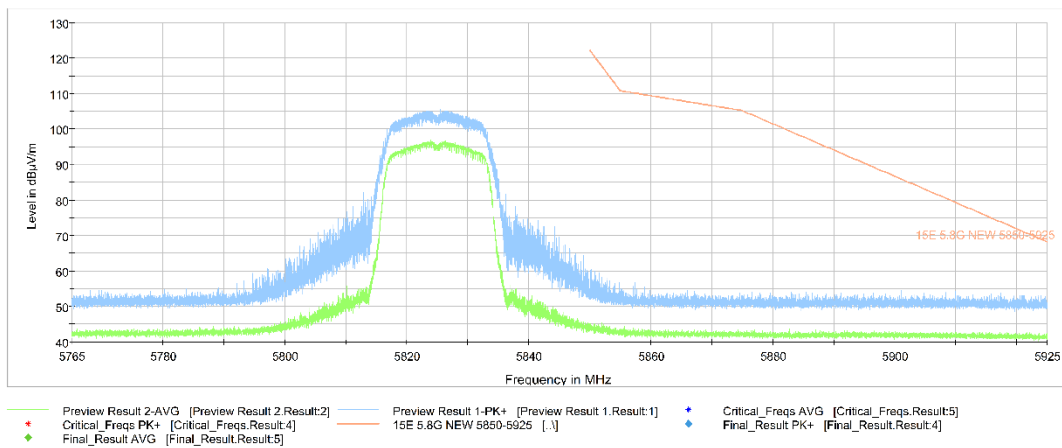


Fig. 11 Band Edges (802.11a Ch165, 5825MHz)

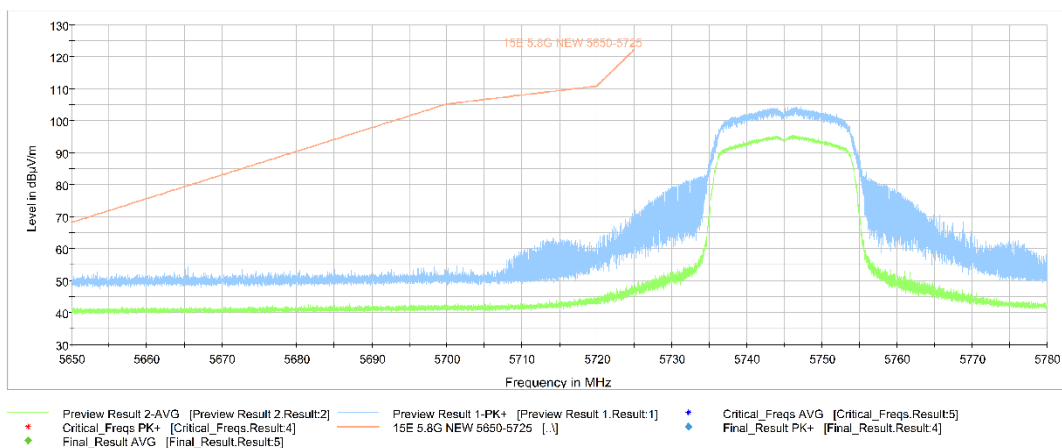


Fig. 12 Band Edges (802.11n-HT20 Ch149, 5745MHz)

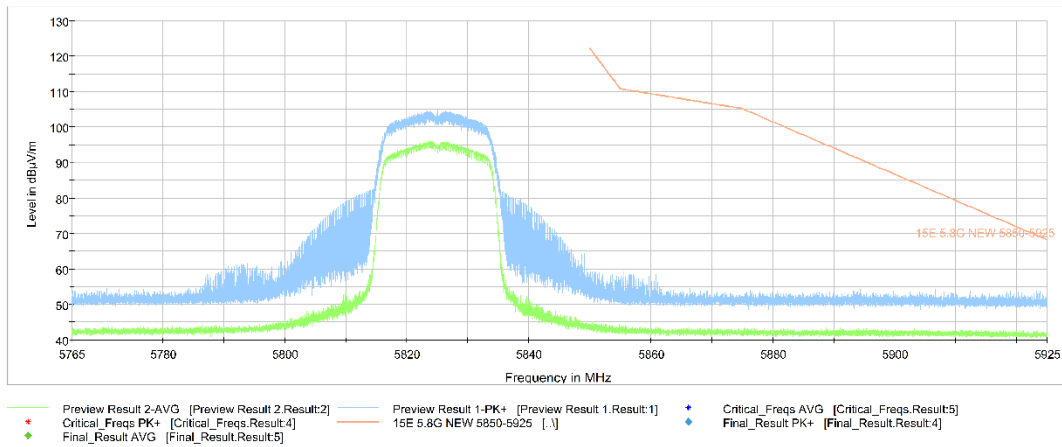


Fig. 13 Band Edges (802.11n-HT20 Ch165, 5825MHz)

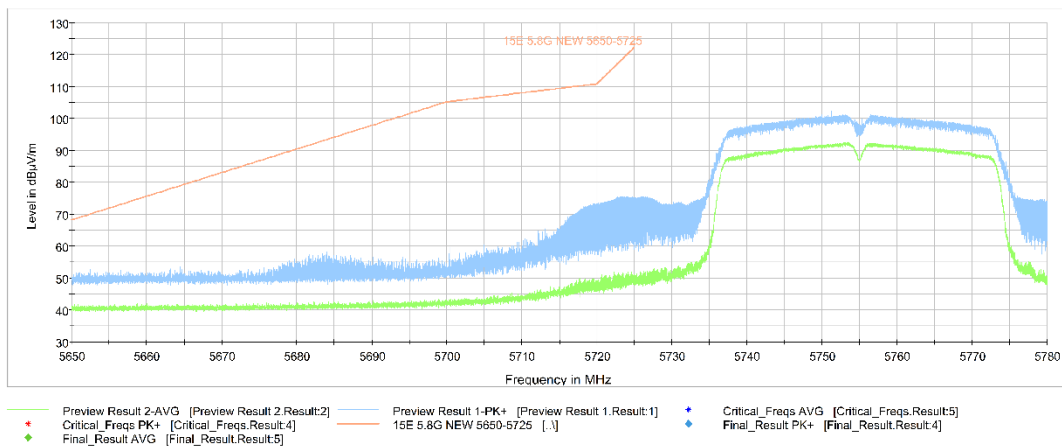


Fig. 14 Band Edges (802.11n-HT40 Ch151, 5755MHz)

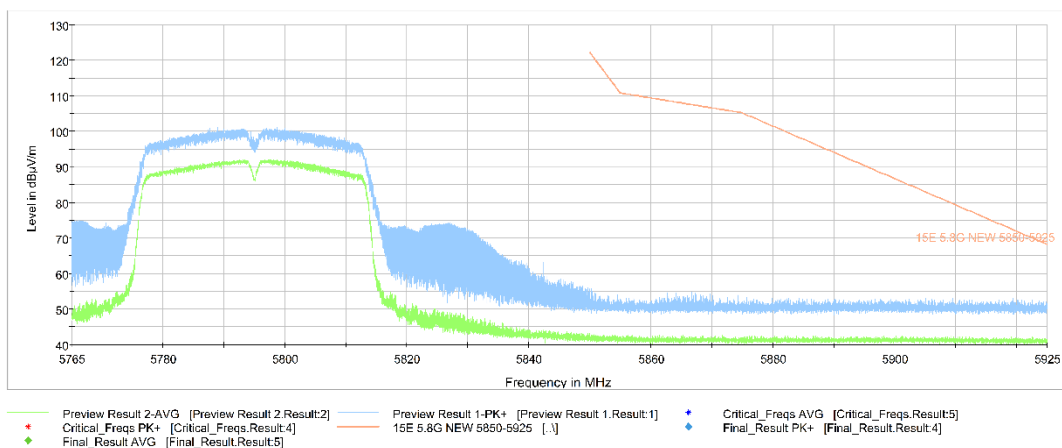


Fig. 15 Band Edges (802.11n-HT40 Ch159, 5795MHz)

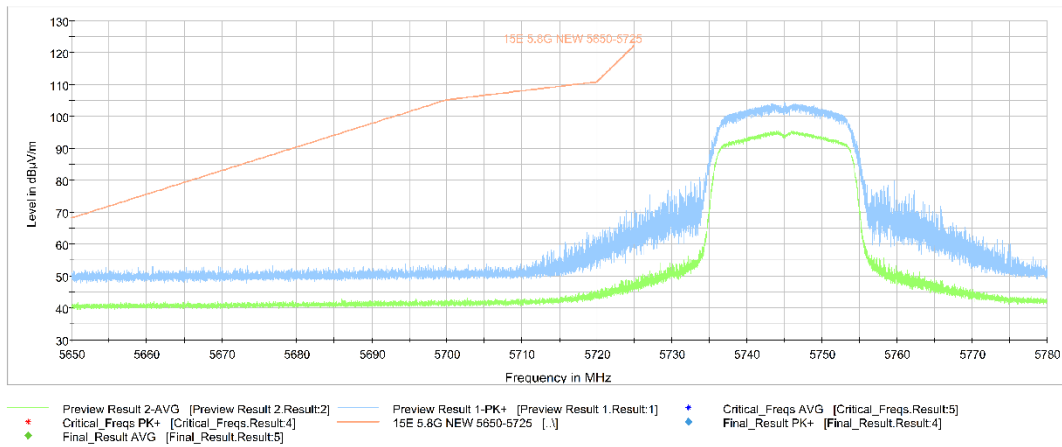


Fig. 16 Band Edges (802.11ac-HT20 Ch149, 5745MHz)

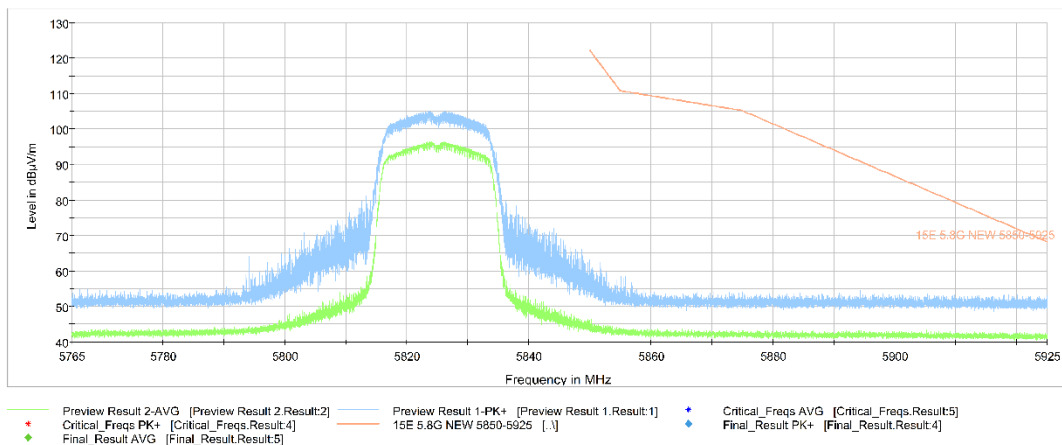


Fig. 17 Band Edges (802.11ac-HT20 Ch165, 5825MHz)

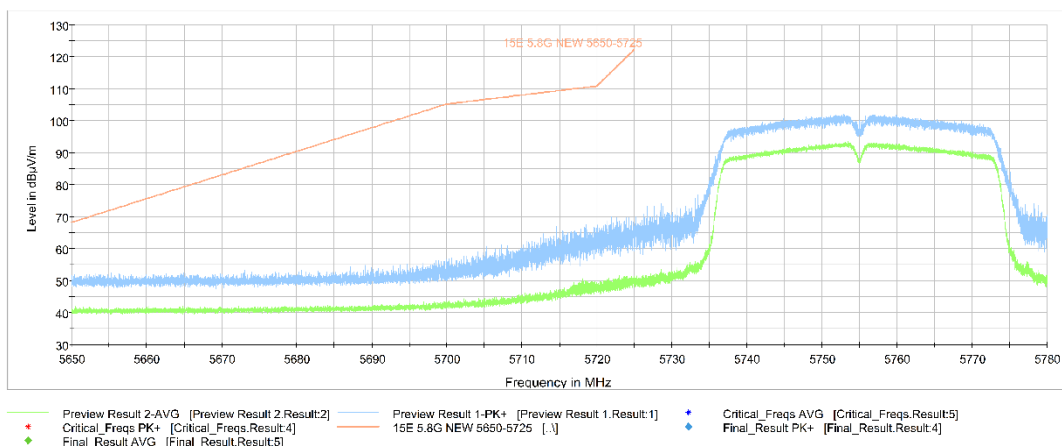


Fig. 18 Band Edges (802.11ac-HT40 Ch151, 5755MHz)

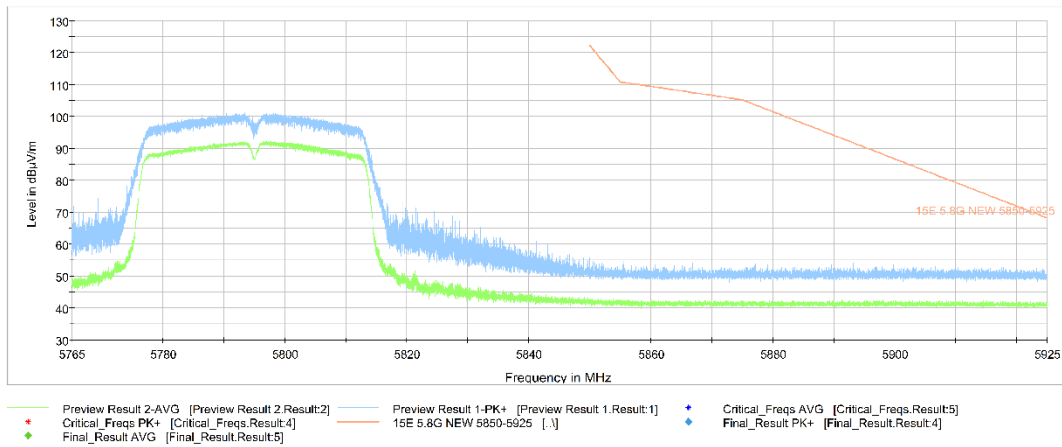


Fig. 19 Band Edges (802.11ac-HT40 Ch159, 5795MHz)

Full Spectrum

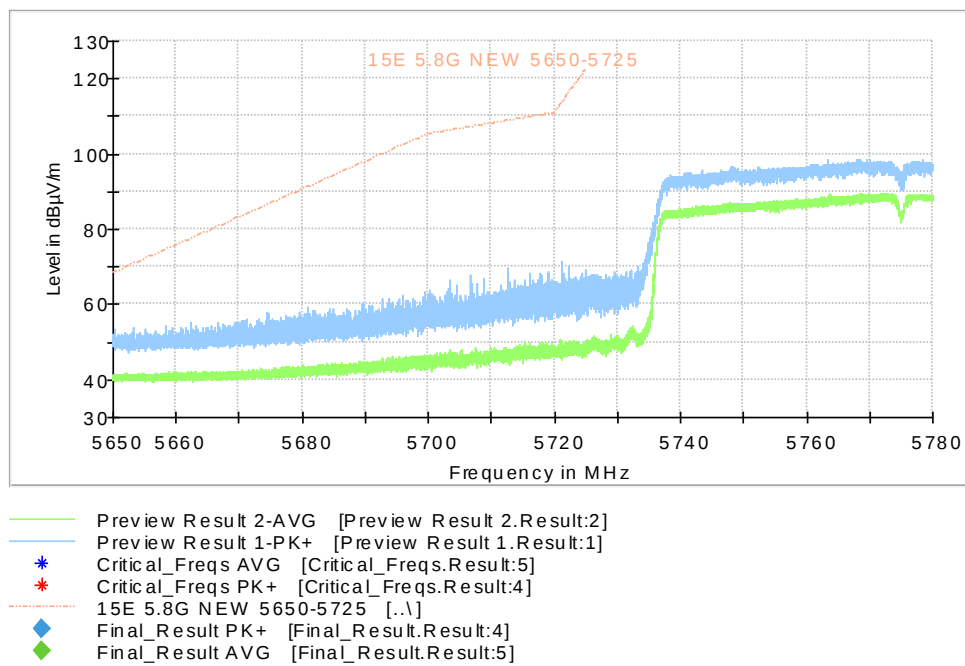


Fig. 20 Band Edges (802.11ac-HT40 Ch159, 5795MHz)

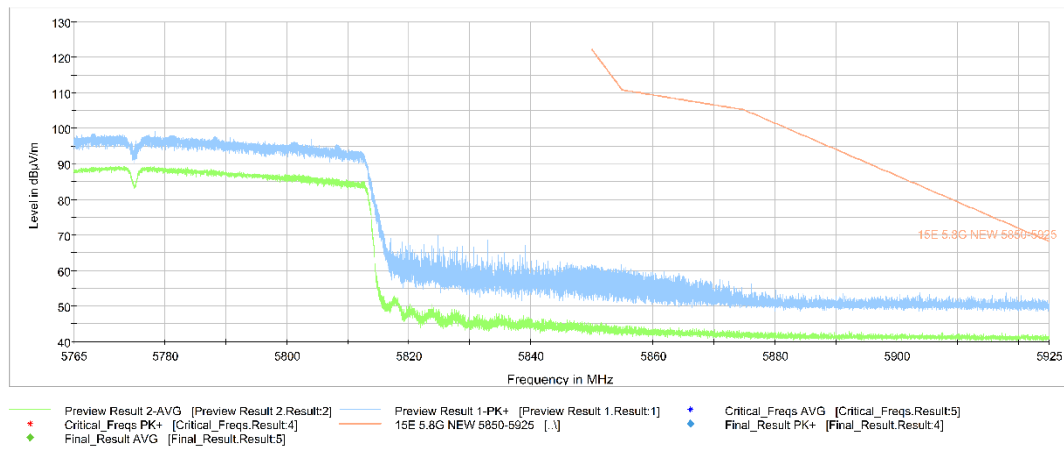


Fig. 21 Band Edges (802.11ac-HT80, 5775MHz)

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 (dBμV)	Result (dBμV)		Conclusion
		With charger		
		802.11a	Idle	
0.15 to 0.5	66 to 56	Fig.22	Fig.23	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.22	Fig.23	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:

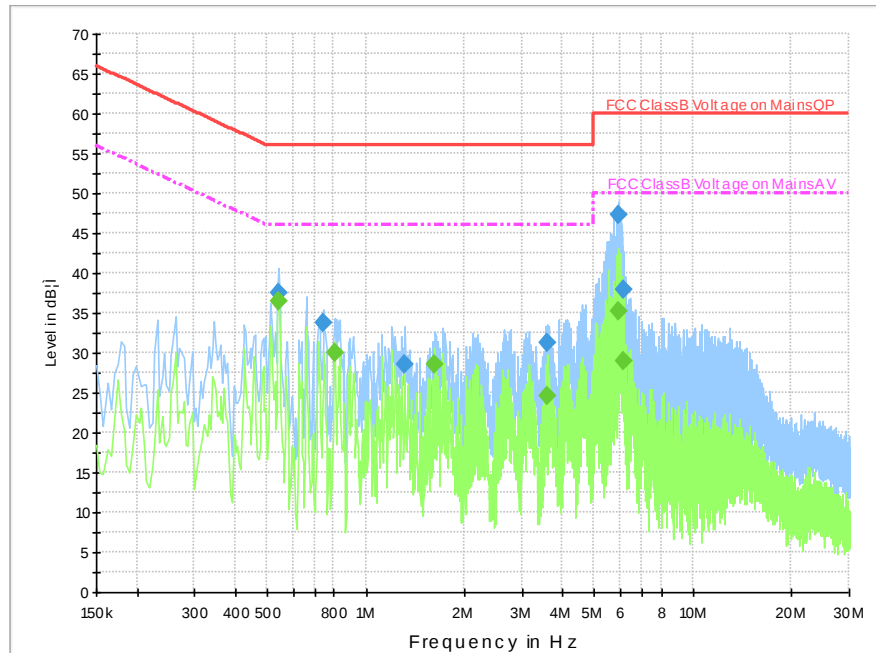


Fig. 22 AC Power line Conducted Emission-802.11a

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
0.542000	37.5	2000.	9.000	On	L1	19.9	18.5	56.0	
0.742000	33.7	2000.	9.000	On	L1	19.7	22.3	56.0	
1.322000	28.6	2000.	9.000	On	N	19.8	27.4	56.0	
3.598000	31.2	2000.	9.000	On	L1	19.5	24.8	56.0	
5.910000	47.3	2000.	9.000	On	L1	19.5	12.7	60.0	
6.142000	37.9	2000.	9.000	On	L1	19.6	22.1	60.0	

Final Result 2

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.542000	36.5	2000.	9.000	On	L1	19.9	9.5	46.0	
0.802000	30.0	2000.	9.000	On	L1	19.6	16.0	46.0	
1.630000	28.6	2000.	9.000	On	L1	19.5	17.4	46.0	
3.598000	24.6	2000.	9.000	On	L1	19.5	21.4	46.0	
5.910000	35.1	2000.	9.000	On	L1	19.5	14.9	50.0	
6.146000	29.0	2000.	9.000	On	L1	19.6	21.0	50.0	

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

Idle:

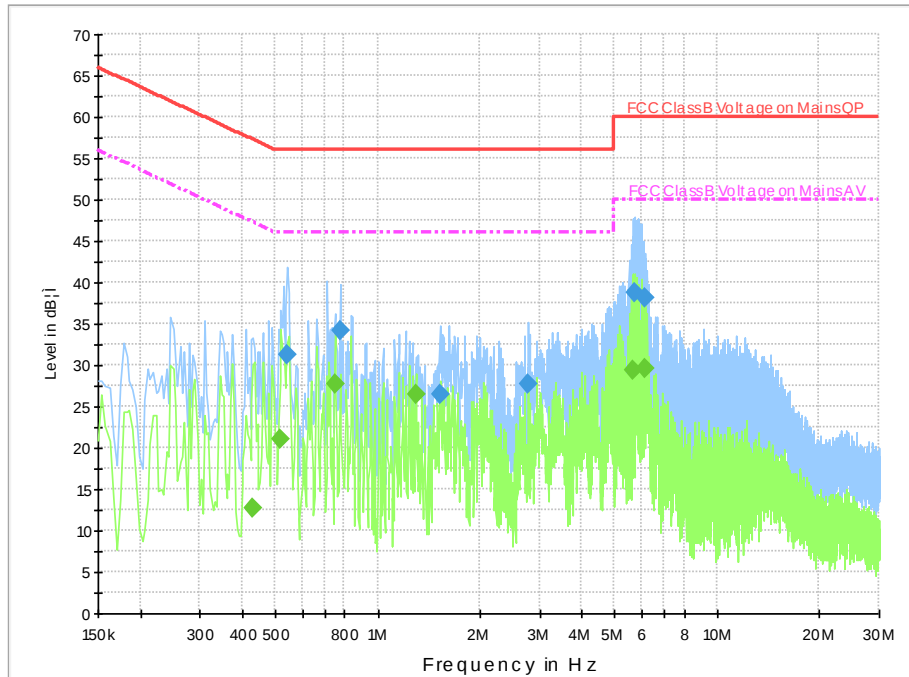


Fig. 23 AC Power line Conducted Emission-Idle

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
0.542000	31.4	2000.	9.000	On	N	19.9	24.6	56.0	
0.774000	34.3	2000.	9.000	On	N	19.8	21.7	56.0	
1.522000	26.5	2000.	9.000	On	L1	19.5	29.5	56.0	
2.770000	27.7	2000.	9.000	On	N	19.7	28.3	56.0	
5.694000	38.7	2000.	9.000	On	L1	19.5	21.3	60.0	
6.134000	38.1	2000.	9.000	On	L1	19.6	21.9	60.0	

Final Result 2

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.430000	12.8	2000.0	9.000	On	L1	19.9	34.5	47.3	
0.518000	21.1	2000.0	9.000	On	L1	19.9	24.9	46.0	
0.750000	27.6	2000.0	9.000	On	L1	19.7	18.4	46.0	
1.298000	26.4	2000.0	9.000	On	L1	19.5	19.6	46.0	
5.638000	29.3	2000.0	9.000	On	L1	19.5	20.7	50.0	
6.134000	29.6	2000.0	9.000	On	L1	19.6	20.4	50.0	

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



*** END OF REPORT BODY ***