



FCC PART 15 TEST REPORT No.I23Z60340-IOT04

for

Client name: Wingtech Group (Hong Kong) Limited

5G Mobile Phone

TMRV065G

With

FCC ID: 2APXW-TMRV065G

Hardware Version: V1.0

Software Version: TMRV065G_0.01.01

Issued Date: 2023-04-11

Note:

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

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

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No.I23Z60340-IOT04

REPORT HISTORY

Report Number	Revision	Description	Issue Date
I23Z60340-IOT04	Rev.0	1st edition	2023-04-11

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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

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. Testing Environment

Normal Temperature: 15-35℃

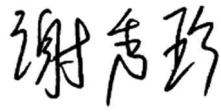
Relative Humidity: 20-75%

1.4. Project date

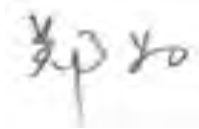
Testing Start Date: 2023-02-28

Testing End Date: 2023-04-11

1.5. Signature



Xie Xiuzhen
(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: Wingtech Group (Hong Kong) Limited
Address: Flat/RM 1903 19/F, Podium Plaza, 5 Hanoi Road, Tsim Sha Tsui, KL,
HK
City: Hong Kong
Postal Code: /
Country: China
Telephone: +86-21-53529900
Fax: /

2.2 Manufacturer Information

Company Name: Wingtech Group (Hong Kong) Limited
Address: Flat/RM 1903 19/F, Podium Plaza, 5 Hanoi Road, Tsim Sha Tsui, KL,
HK
City: Hong Kong
Postal Code: /
Country: China
Telephone: +86-21-53529900
Fax: /

3. EQUIPMENT UNDER TEST (EUT) AND

ANCILLARY EQUIPMENT(AE)

3.1. About EUT

Description	5G Mobile Phone
Model name	TMRV065G
FCC ID	2APXW-TMRV065G
WLAN Frequency Band	ISM Bands: -5150MHz~5250MHz -5250MHz~5350MHz -5470MHz~5725MHz
Type of modulation	OFDM
Antenna	Integral Antenna
Voltage	3.85V

3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version
UT22a	861690060031057	V1.0	TMRV065G_0.01.01
UT09a	861690060031701	V1.0	TMRV065G_0.01.01

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

UT09a is used for Conduction test, UT22a is used for Radiation test.

3.3. Internal Identification of AE used during the test

AE ID*	Description	SN
AE1	Battery	/
AE2	Charger	/
AE3	USB Cable	/
AE1		
Model	RE001	
Manufacturer	SUNWODA ELECTRONIC CO., LTD	
Capacity	4500mAh	
Nominal Voltage		
AE2		
Model	BLJ-QC06HU	
Manufacturer	Zhongshan Baolijin Electronic Co., Ltd	
Length of cable	/	
AE3		
Model	USB AM TO TYPE-C2.0	
Manufacturer	Huizhou WASHIN Electronics Co., Ltd	
Length of cable	/	

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

3.4. General Description

The Equipment under Test (EUT) is a model of 5G Mobile Phone with integrated antenna and inbuilt battery.

It has Bluetooth (EDR)function.

It consists of normal options: travel charger, USB cable.

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

Samples undergoing test were selected by the client.

3.5. Interpretation of the Test Environment

For the test methods, the test environment uncertainty figures correspond to an expansion factor $k=2$.

Measurement Uncertainty

Parameter	Uncertainty
temperature	0.48°C
humidity	2 %
DC voltages	0.003V

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	Title 47 of the Code of Federal Regulations; Chapter I Part 15 - Radio frequency devices	2021
ANSI C63.10	Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	2013
UNII: KDB 789033 D02	General U-NII Test Procedures New Rules v02r01	2017-12

5. LABORATORY ENVIRONMENT

Conducted RF performance testing is performed in shielding room.

EMC performance testing is performed in Semi-anechoic chamber.

6. SUMMARY OF TEST RESULTS

6.1. Summary of Test Results

SUMMARY OF MEASUREMENT RESULTS	Sub-clause of Part15E	Sub-clause of IC	Verdict
Maximum Output Power	15.407	/	P
Peak Power Spectral Density	15.407	/	P
Occupied 26dB Bandwidth	15.403	/	P
Band edge compliance (Radiated)	15.209	/	P
Transmitter spurious emissions (Radiated)	15.407	/	P
AC Powerline Conducted Emission (150kHz- 30MHz)	15.407	/	P
Frequency Stability	15.407	/	P
99% Occupied bandwidth	/	/	P
Transmit Power Control	15.407	/	NA

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/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	3.85V
Humidity	44%

7. TEST EQUIPMENTS UTILIZED

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	Vector Signal Analyzer	FSW67	104051	Rohde & Schwarz	1 year	2024-03-06
2	Test Receiver	ESU26	100235	R&S	1 year	2023-04-07
3	LISN	ENV216	101200	R&S	1 year	2023-06-29
4	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	01223	SCHWARZBECK	1 year	2023-07-25
3	EMI Antenna	3115	00167250	ETS-Lindgren	1 year	2023-06-20
4	Loop Antenna	HFH2-22	829324/007	R&S	1 year	2023-12-23

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 Channel 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	/
$30\text{MHz} \leq f \leq 1\text{GHz}$	5.15
$1\text{GHz} \leq f \leq 18\text{GHz}$	5.54
$18\text{GHz} \leq f \leq 40\text{GHz}$	5.26

8.6 AC Power-line Conducted Emission

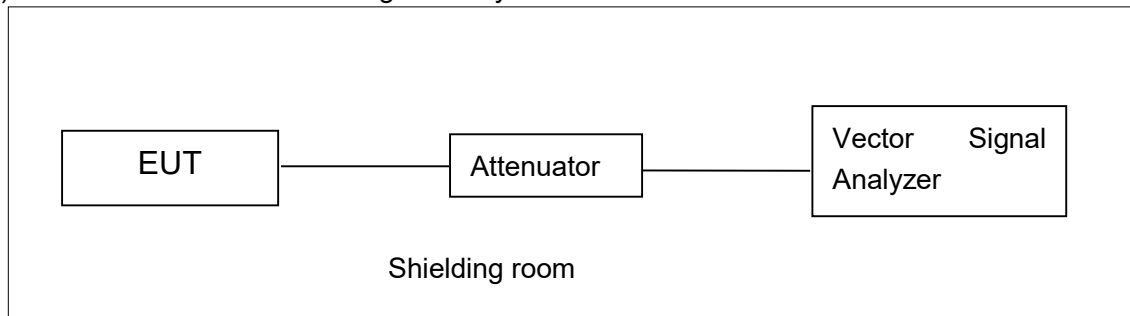
Measurement Uncertainty : 3.08,k=2

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

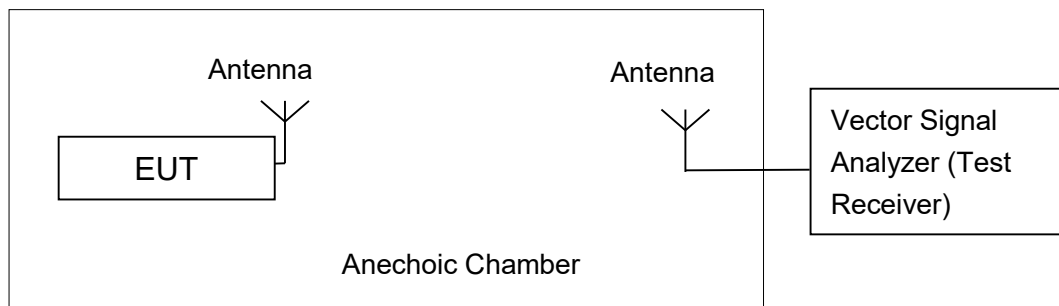


A.1.2. Radiated Emission Measurements

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 KDB 789033

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 output Power

Measurement Limit and Method:

Standard	Frequency (MHz)	Limit (dBm)
FCC CRF Part 15.407(a)	5150MHz~5250MHz	24dBm
	5250MHz~5350MHz	24dBm or 11+10logB
	5470MHz~5725MHz	24dBm or 11+10logB

Limit use the less value, and B is the 26dB bandwidth.

The measurement method SA-2 is made according to KDB 789033

Antenna Gain: -0.1dBi

Measurement Results:

802.11a mode

Mode	Frequency	Test Result (dBm)							
		Data Rate (Mbps)							
		6	9	12	18	24	36	48	54
802.11a	5180MHz	18.77	/	/	/	/	/	/	/
	5200MHz	18.92	/	/	/	/	/	/	/
	5240MHz	18.66	/	/	/	/	/	/	/
	5260MHz	18.40	/	/	/	/	/	/	/
	5280MHz	18.36	/	/	/	/	/	/	/
	5320MHz	18.53	/	/	/	/	/	/	/
	5500MHz	18.67	/	/	/	/	/	/	/
	5580MHz	18.62	/	/	/	/	/	/	/
	5700MHz	18.51	/	/	/	/	/	/	/
	5720MHz	19.64	/	/	/	/	/	/	/

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

802.11n-HT20 mode

Mode	Frequency	Test Result (dBm)							
		Data Rate							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11n (HT20)	5180MHz	18.86	/	/	/	/	/	/	/
	5200MHz	19.22	/	/	/	/	/	/	/
	5240MHz	19.45	/	/	/	/	/	/	/
	5260MHz	18.96	/	/	/	/	/	/	/
	5280MHz	18.99	/	/	/	/	/	/	/
	5320MHz	18.73	/	/	/	/	/	/	/
	5500MHz	18.63	/	/	/	/	/	/	/
	5580MHz	18.17	/	/	/	/	/	/	/
	5700MHz	17.97	/	/	/	/	/	/	/
	5720MHz	19.79	/	/	/	/	/	/	/

The data rate MCS0 is selected as worst condition, and the following cases are performed with

this condition.

802.11ac-HT20 mode

Mode	Frequency	Test Result (dBm)								
		Data Rate								
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8
802.11ac (HT20)	5180MHz	17.22	/	/	/	/	/	/	/	/
	5200MHz	17.54	/	/	/	/	/	/	/	/
	5240MHz	17.71	/	/	/	/	/	/	/	/
	5260MHz	17.35	/	/	/	/	/	/	/	/
	5280MHz	17.34	/	/	/	/	/	/	/	/
	5320MHz	17.11	/	/	/	/	/	/	/	/
	5500MHz	17.55	/	/	/	/	/	/	/	/
	5580MHz	17.02	/	/	/	/	/	/	/	/
	5700MHz	18.36	/	/	/	/	/	/	/	/
	5720MHz	18.51	/	/	/	/	/	/	/	/

The data rate MCS0 is selected as worst condition, and the following cases are performed with this condition.

802.11n-HT40 mode

Mode	Frequency	Test Result (dBm)							
		Data Rate							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11n (HT40)	5190MHz	15.52	/	/	/	/	/	/	/
	5230MHz	16.86	/	/	/	/	/	/	/
	5270MHz	16.51	/	/	/	/	/	/	/
	5310MHz	16.32	/	/	/	/	/	/	/
	5510MHz	16.06	/	/	/	/	/	/	/
	5550MHz	17.53	/	/	/	/	/	/	/
	5670MHz	18.03	/	/	/	/	/	/	/
	5710MHz	18.79	/	/	/	/	/	/	/

The data rate MCS0 is selected as worst condition, and the following cases are performed with this condition.

802.11ac-HT40 mode

Mode	Frequency	Test Result (dBm)									
		Data Rate									
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
802.11ac (HT40)	5190MHz	16.00	/	/	/	/	/	/	/	/	/
	5230MHz	16.72	/	/	/	/	/	/	/	/	/
	5270MHz	16.68	/	/	/	/	/	/	/	/	/
	5310MHz	16.53	/	/	/	/	/	/	/	/	/
	5510MHz	16.63	/	/	/	/	/	/	/	/	/
	5550MHz	16.63	/	/	/	/	/	/	/	/	/
	5670MHz	16.75	/	/	/	/	/	/	/	/	/
	5710MHz	17.50	/	/	/	/	/	/	/	/	/

The data rate MCS0 is selected as worst condition, and the following cases are performed with this condition.

802.11ac-HT80 mode

Mode	Frequency	Test Result (dBm)									
		Data Rate									
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
802.11ac (HT80)	5210MHz	14.49	/	/	/	/	/	/	/	/	/
	5290MHz	14.45	/	/	/	/	/	/	/	/	/
	5530MHz	15.52	/	/	/	/	/	/	/	/	/
	5610MHz	15.74	/	/	/	/	/	/	/	/	/
	5690MHz	17.04	/	/	/	/	/	/	/	/	/

The data rate MCS0 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 (conducted)

Measurement Limit:

Standard	Frequency (MHz)	Limit (dBm/MHz)
FCC CRF Part 15.407(a)	5150MHz~5250MHz	11
	5250MHz~5350MHz	11
	5470MHz~5725MHz	11

The output power measurement method Section F is made according to KDB 789033

Measurement Results:

Mode	Frequency	Power Spectral Density (dBm/MHz)	Conclusion
802.11a	5180 MHz	8.40	P
	5200 MHz	8.72	P
	5240 MHz	8.90	P
	5260 MHz	8.56	P
	5280 MHz	8.55	P
	5320 MHz	7.98	P
	5500 MHz	8.64	P
	5580 MHz	7.88	P
	5700 MHz	8.06	P
	5720 MHz	9.66	P
802.11n HT20	5180 MHz	8.09	P
	5200 MHz	8.42	P
	5240 MHz	8.64	P
	5260 MHz	8.25	P
	5280 MHz	8.05	P
	5320 MHz	7.75	P
	5500 MHz	7.62	P
	5580 MHz	7.69	P
	5700 MHz	7.26	P
	5720 MHz	9.18	P
802.11n HT40	5190 MHz	2.33	P
	5230 MHz	3.64	P
	5270 MHz	3.26	P
	5310 MHz	2.90	P
	5510 MHz	2.91	P
	5550 MHz	4.25	P
	5670 MHz	5.12	P
	5710 MHz	5.65	P
802.11ac HT80	5210MHz	-1.96	P
	5290MHz	-2.05	P
	5530MHz	-0.86	P

	5610MHz	-0.37	P
	5690MHz	0.72	P

Conclusion: PASS

A.4. Occupied 26dB Bandwidth(conducted)

Measurement Limit:

Standard	Limit (kHz)
FCC 47 CFR Part 15.403 (i)	/

The measurement is made according to KDB 789033

Measurement Uncertainty:

Measurement Uncertainty	60.80Hz
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Measurement Result:

Mode	Frequency	Occupied 26dB Bandwidth (MHz)		conclusion
802.11a	5180 MHz	Fig.1	20.20	P
	5200 MHz	Fig.2	20.40	P
	5240 MHz	Fig.3	20.28	P
	5260 MHz	Fig.4	20.28	P
	5280 MHz	Fig.5	20.04	P
	5320 MHz	Fig.6	20.24	P
	5500 MHz	Fig.7	20.08	P
	5580 MHz	Fig.8	19.92	P
	5700 MHz	Fig.9	20.08	P
	5720 MHz	Fig.10	22.32	P
802.11n HT20	5180 MHz	Fig.11	20.88	P
	5200 MHz	Fig.12	20.80	P
	5240 MHz	Fig.13	20.88	P
	5260 MHz	Fig.14	20.76	P
	5280 MHz	Fig.15	20.56	P
	5320 MHz	Fig.16	20.52	P
	5500 MHz	Fig.17	20.36	P
	5580 MHz	Fig.18	20.84	P
	5700 MHz	Fig.19	20.36	P
	5720 MHz	Fig.20	21.40	P
802.11n HT40	5190 MHz	Fig.21	40.96	P
	5230 MHz	Fig.22	41.04	P
	5270 MHz	Fig.23	41.20	P
	5310 MHz	Fig.24	41.12	P
	5510 MHz	Fig.25	41.36	P
	5550 MHz	Fig.26	41.12	P

802.11ac HT80	5670 MHz	Fig.27	41.52	P
	5710 MHz	Fig.28	41.12	P
	5210MHz	Fig.29	81.28	P
	5290MHz	Fig.30	81.60	P
	5530MHz	Fig.31	81.60	P
	5610MHz	Fig.32	81.44	P
	5690MHz	Fig.33	81.44	P

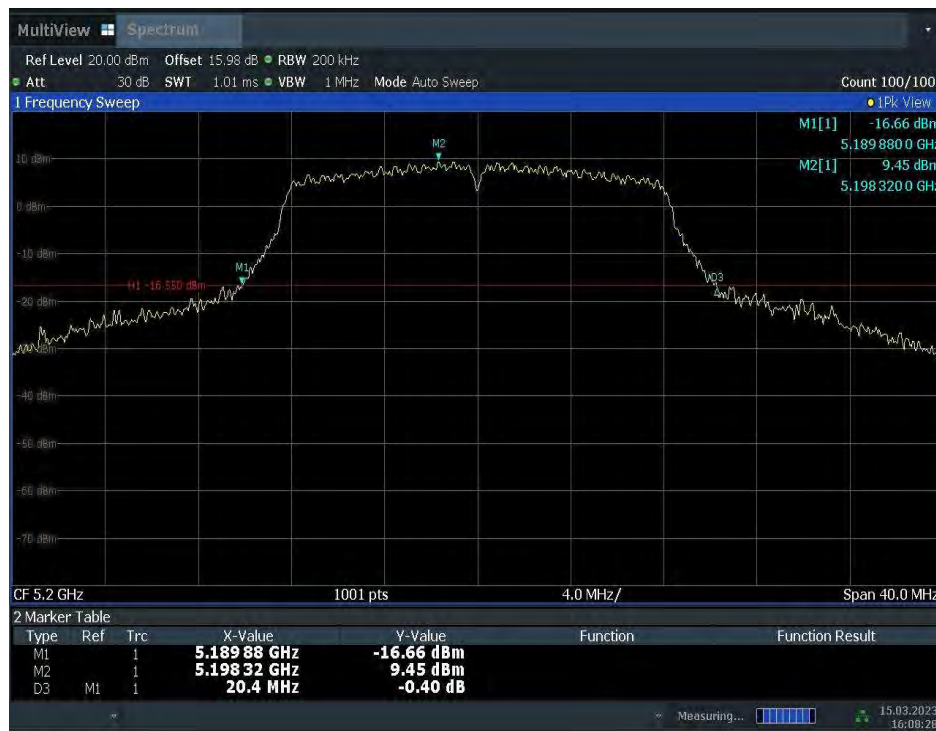
Conclusion: PASS

Test graphs as below:



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Fig.1 Occupied 26dB Bandwidth (802.11a, 5180MHz)



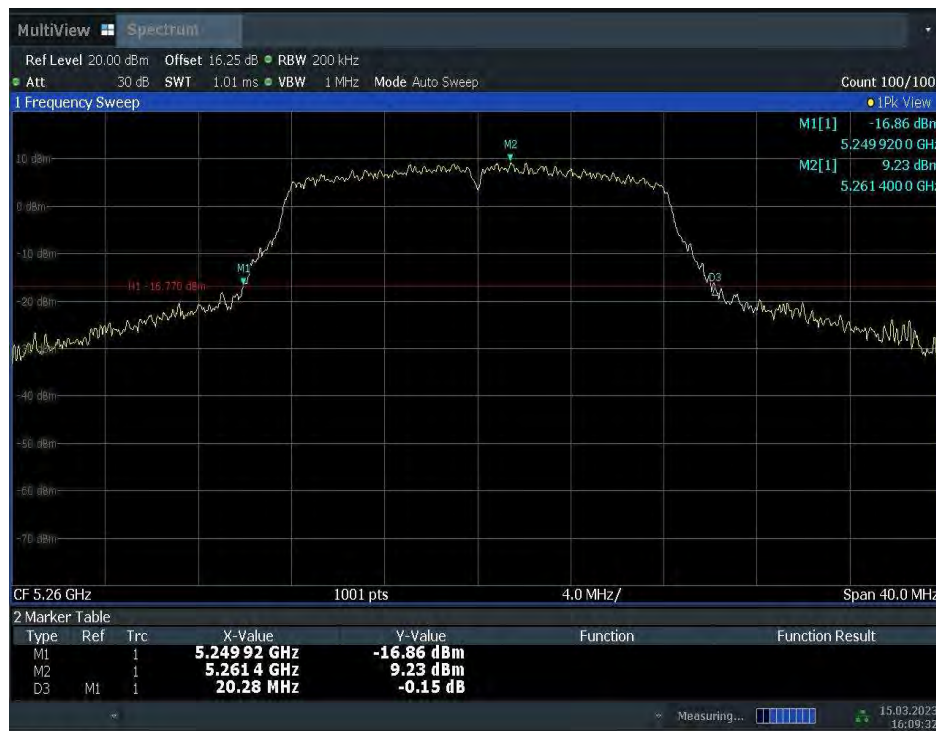
16:08:28 15.03.2023

Fig.2 Occupied 26dB Bandwidth (802.11a, 5200MHz)



16:09:01 15.03.2023

Fig.3 Occupied 26dB Bandwidth (802.11a, 5240MHz)



16:09:33 15.03.2023

Fig.4 Occupied 26dB Bandwidth (802.11a, 5260MHz)



16:10:09 15.03.2023

Fig.5 Occupied 26dB Bandwidth (802.11a, 5280MHz)



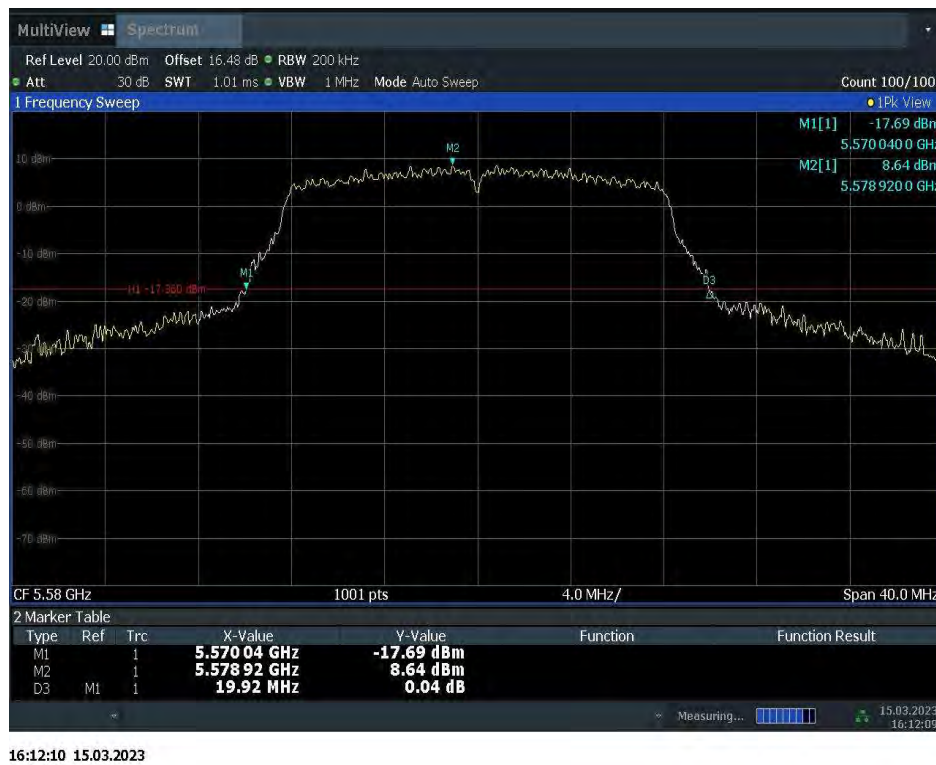
16:10:44 15.03.2023

Fig.6 Occupied 26dB Bandwidth (802.11a, 5320MHz)



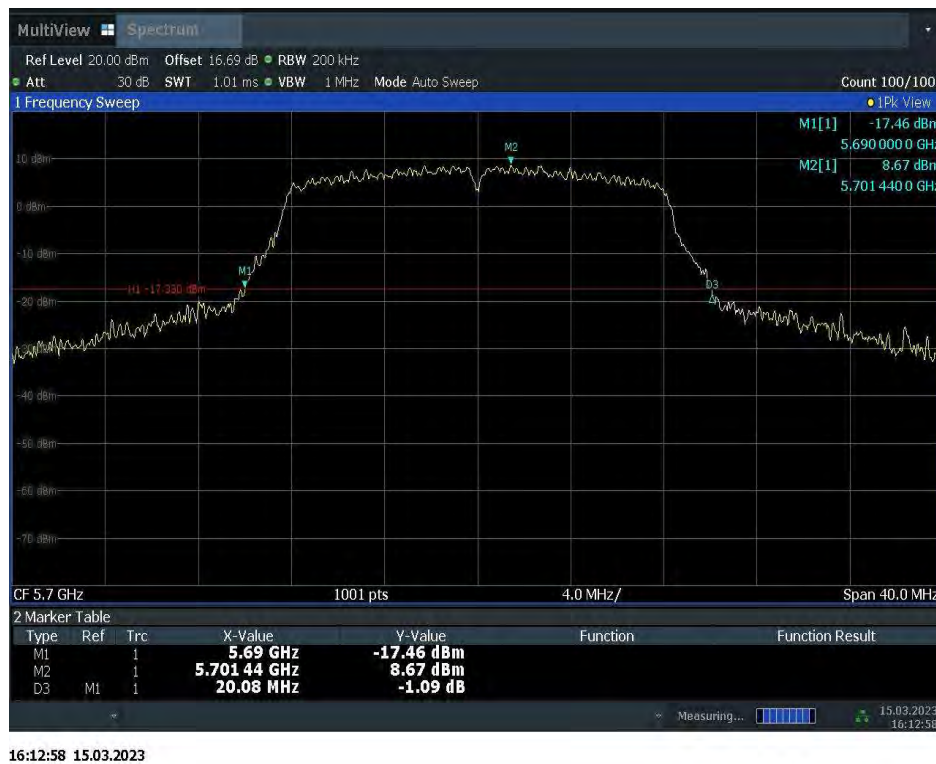
16:11:29 15.03.2023

Fig.7 Occupied 26dB Bandwidth (802.11a, 5500MHz)



16:12:10 15.03.2023

Fig.8 Occupied 26dB Bandwidth (802.11a, 5580MHz)



16:12:58 15.03.2023

Fig.9 Occupied 26dB Bandwidth (802.11a, 5700MHz)



16:13:33 15.03.2023

Fig.10 Occupied 26dB Bandwidth (802.11a, 5720MHz)



16:15:29 15.03.2023

Fig.11 Occupied 26dB Bandwidth (802.11n-HT20, 5180MHz)



16:16:15 15.03.2023

Fig.12 Occupied 26dB Bandwidth (802.11n-HT20, 5200MHz)



16:16:59 15.03.2023

Fig.13 Occupied 26dB Bandwidth (802.11n-HT20, 5240MHz)



16:17:37 15.03.2023

Fig.14 Occupied 26dB Bandwidth (802.11n-HT20, 5260MHz)



16:18:11 15.03.2023

Fig.15 Occupied 26dB Bandwidth (802.11n-HT20, 5280MHz)



16:18:46 15.03.2023

Fig.16 Occupied 26dB Bandwidth (802.11n-HT20, 5320MHz)



16:19:28 15.03.2023

Fig.17 Occupied 26dB Bandwidth (802.11n-HT20, 5500MHz)

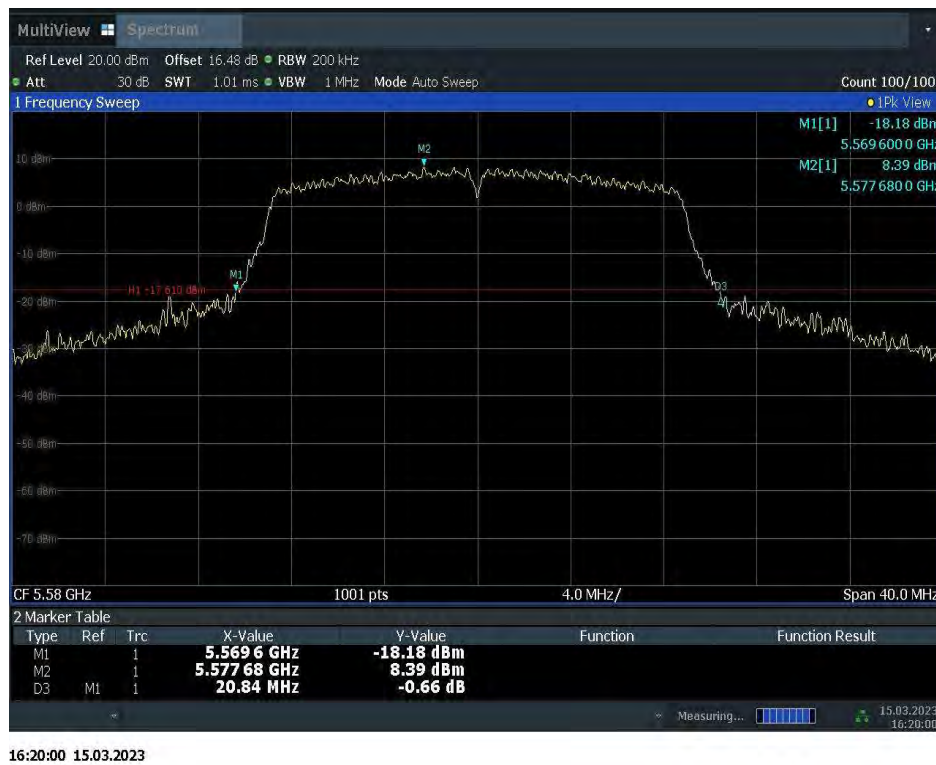


Fig.18 Occupied 26dB Bandwidth (802. 11n-HT20, 5580MHz)



Fig.19 Occupied 26dB Bandwidth (802. 11n-HT20, 5700MHz)



16:21:45 15.03.2023

Fig.20 Occupied 26dB Bandwidth (802.11n-HT20, 5720MHz)



16:25:17 15.03.2023

Fig.21 Occupied 26dB Bandwidth (802.11n-HT40, 5190MHz)



15:17:12 27.03.2023

Fig.22 Occupied 26dB Bandwidth (802.11n-HT40, 5230MHz)



15:18:00 27.03.2023

Fig.23 Occupied 26dB Bandwidth (802.11n-HT40, 5270MHz)



15:18:46 27.03.2023

Fig.24 Occupied 26dB Bandwidth (802.11n-HT40, 5310MHz)



16:28:50 15.03.2023

Fig.25 Occupied 26dB Bandwidth (802. 11n-HT40, 5510MHz)



16:29:21 15.03.2023

Fig.26 Occupied 26dB Bandwidth (802. 11n-HT40, 5590MHz)



16:29:53 15.03.2023

Fig.27 Occupied 26dB Bandwidth (802. 11n-HT40, 5670MHz)



16:30:26 15.03.2023

Fig.28 Occupied 26dB Bandwidth (802. 11n-HT40, 5710MHz)



16:32:12 15.03.2023

Fig.29 Occupied 26dB Bandwidth (802. 11ac-HT80, 5210MHz)



15:19:53 27.03.2023

Fig.30 Occupied 26dB Bandwidth (802. 11ac-HT80, 5290MHz)



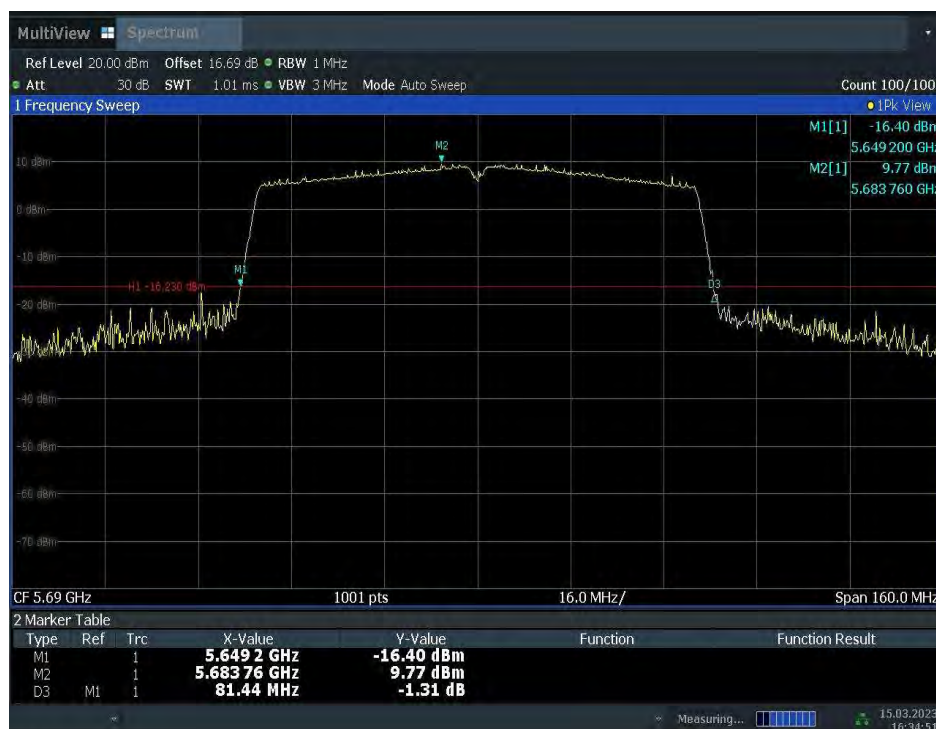
16:33:45 15.03.2023

Fig.31 Occupied 26dB Bandwidth (802. 11ac-HT80, 5530MHz)



16:34:18 15.03.2023

Fig.32 Occupied 26dB Bandwidth (802. 11ac-HT80, 5610MHz)



16:34:51 15.03.2023

Fig.33 Occupied 26dB Bandwidth (802. 11ac-HT80, 5690MHz)

A.5. Band Edges Compliance

A5.1 Band Edges - Radiated

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.407	-27 dBm/MHz

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(dBuV/m)	Measurement distance(m)
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

The measurement is made according to ANSI C63.10-2013 and KDB 789033

Measurement Result:

Mode	Channel	Test Results	Conclusion
802.11a	5180 MHz	Fig.34	P
	5320 MHz	Fig.35	P
	5500 MHz	Fig.36	P
	5700 MHz	Fig.37	P
802.11n HT20	5180 MHz	Fig.38	P
	5320 MHz	Fig.39	P
	5500 MHz	Fig.40	P
	5700 MHz	Fig.41	P
802.11ac HT20	5180 MHz	Fig.42	P
	5320 MHz	Fig.43	P
	5500 MHz	Fig.44	P
	5700 MHz	Fig.45	P
802.11n HT40	5190 MHz	Fig.46	P
	5310 MHz	Fig.47	P
	5510 MHz	Fig.48	P
	5670 MHz	Fig.49	P
802.11ac HT40	5190 MHz	Fig.50	P
	5310 MHz	Fig.51	P
	5510 MHz	Fig.52	P
	5670 MHz	Fig.53	P
802.11ac HT80	5210MHz	Fig.54	P
	5290MHz	Fig.55	P
	5530MHz	Fig.56	P
	5610MHz	Fig.57	P

Conclusion: PASS

Test graphs as below:

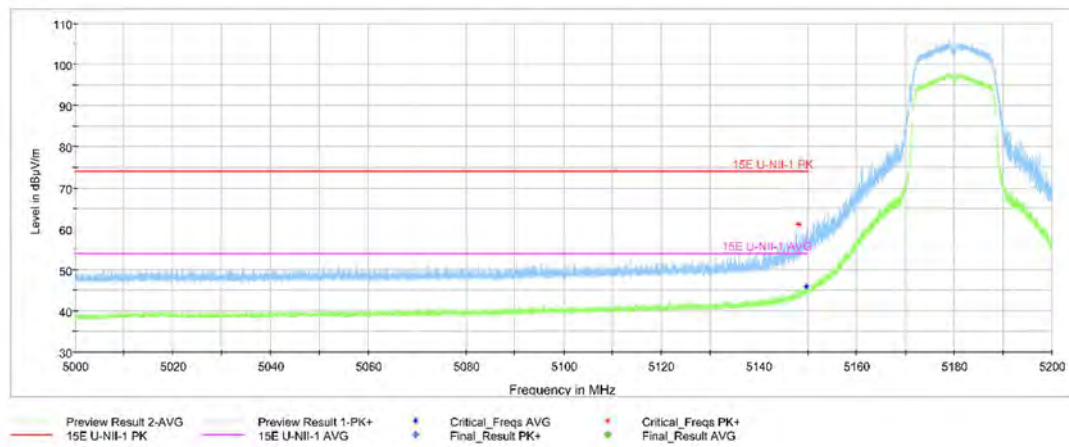


Fig.34 Band Edges (802.11a Ch36, 5180MHz)

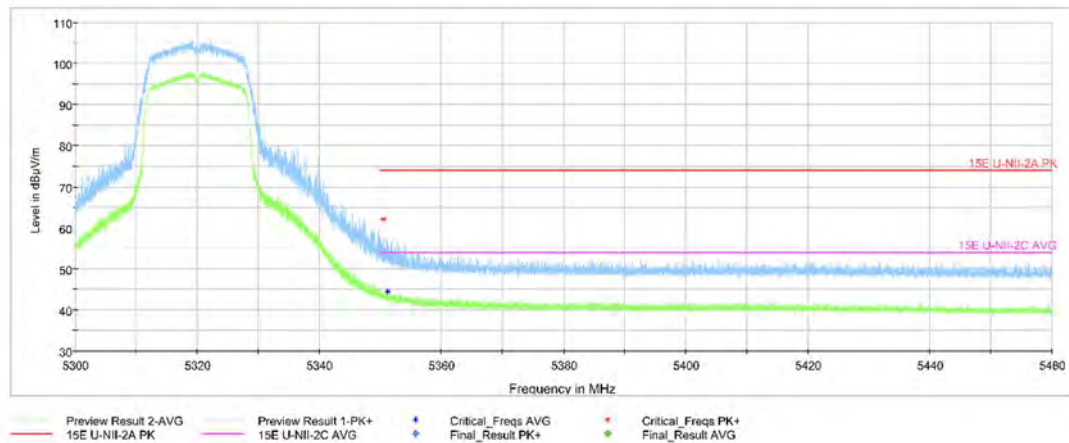


Fig.35 Band Edges (802.11a Ch64, 5320MHz)

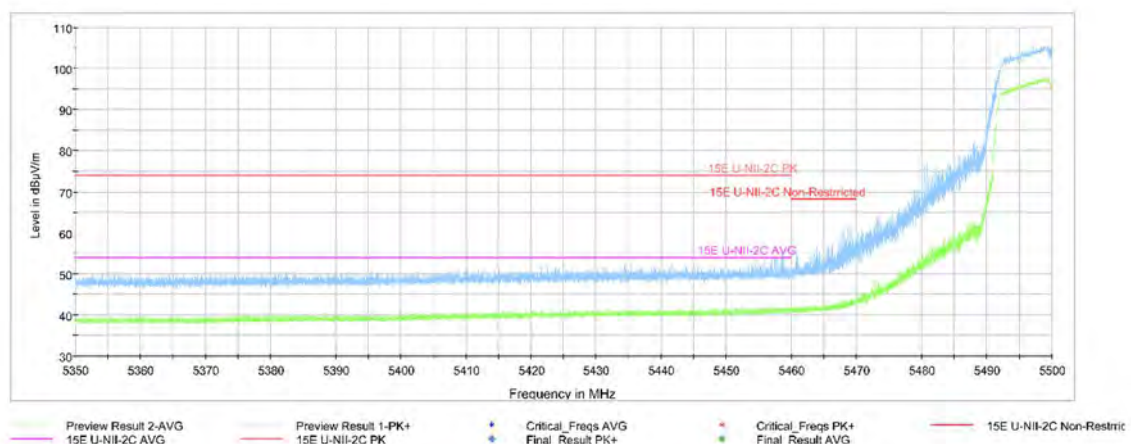


Fig.36 Band Edges (802.11a Ch100, 5500MHz)

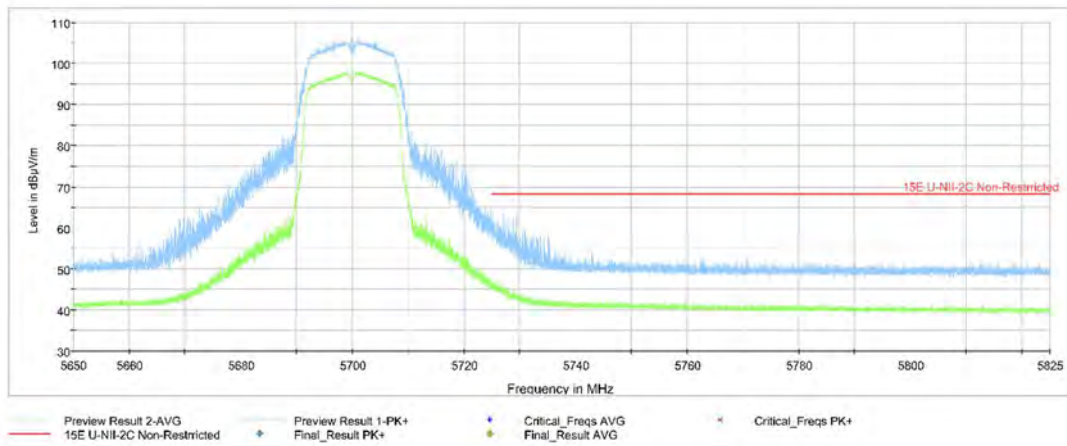


Fig.37 Band Edges (802.11a Ch140, 5700MHz)

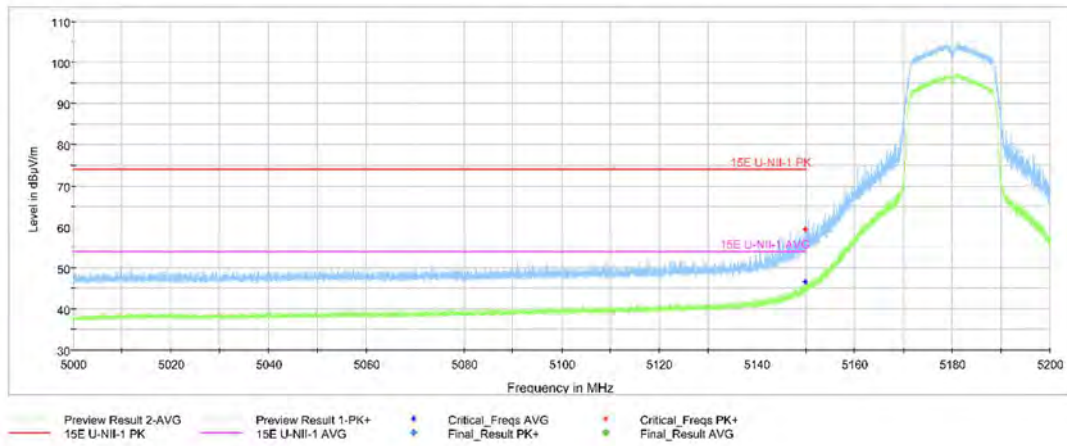


Fig.38 Band Edges (802.11n-HT20 Ch36, 5180MHz)

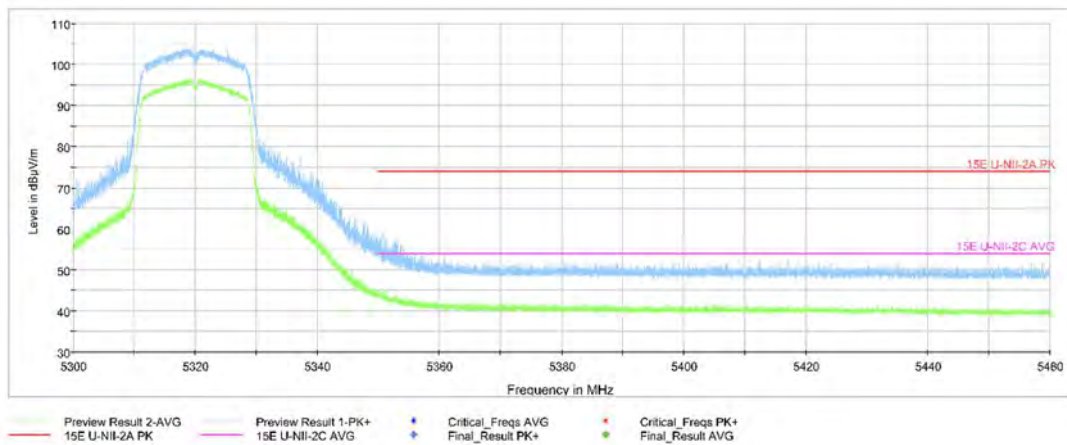


Fig.39 Band Edges (802.11n-HT20 Ch64, 5320MHz)

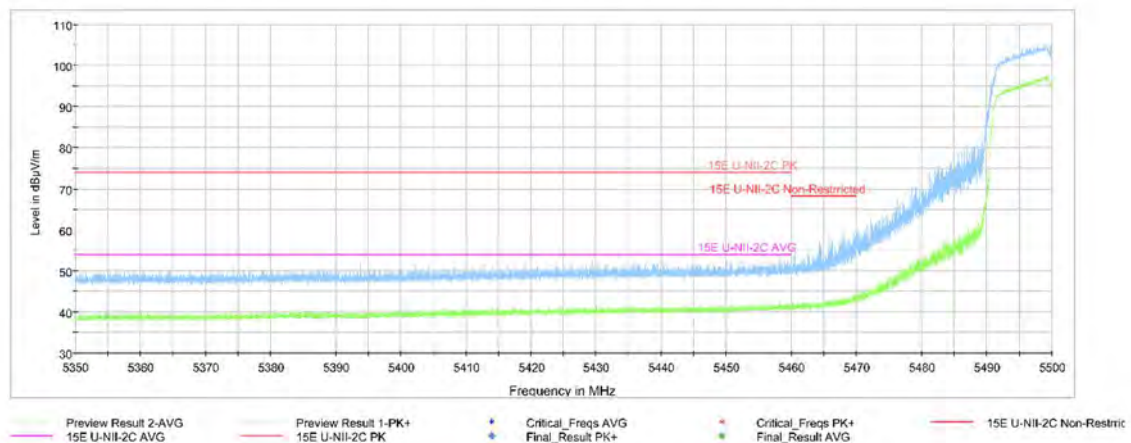


Fig.40 Band Edges (802.11n-HT20 Ch100, 5500MHz)

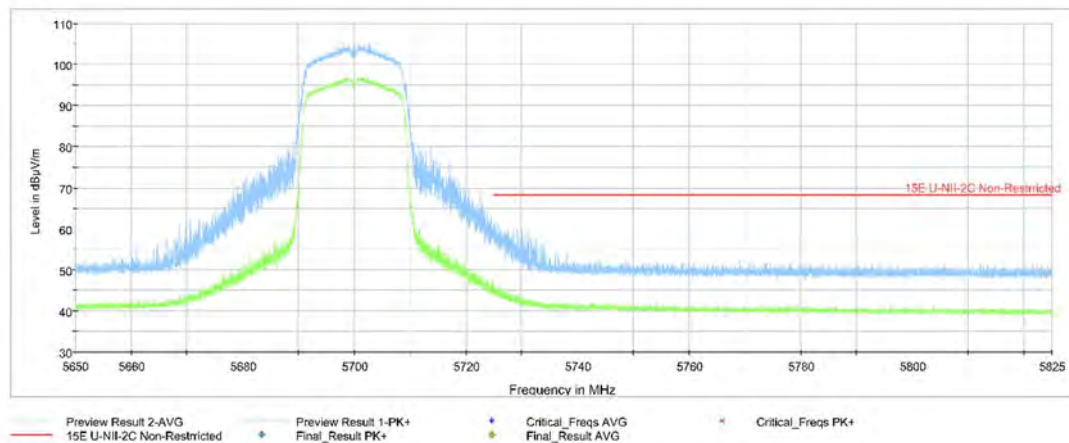


Fig.41 Band Edges (802.11n-HT20 Ch140, 5700MHz)

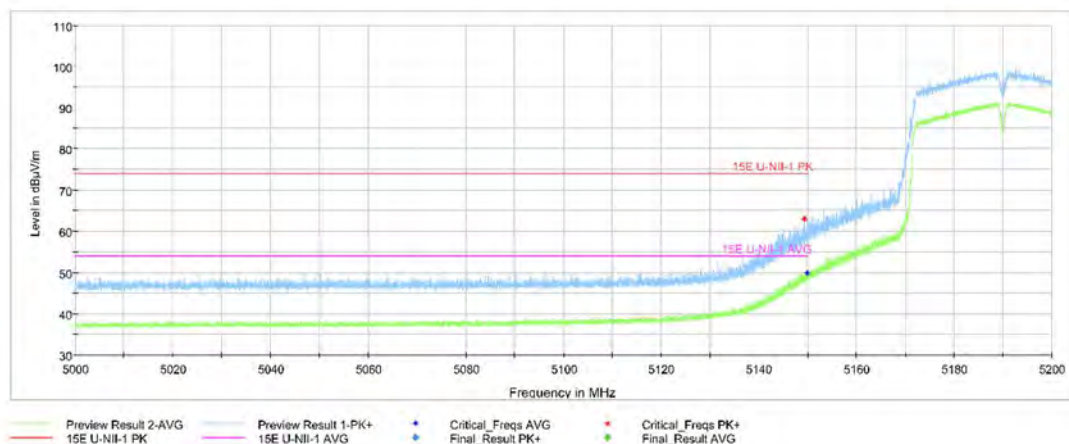


Fig.42 Band Edges (802.11n-HT40 Ch38, 5190MHz)

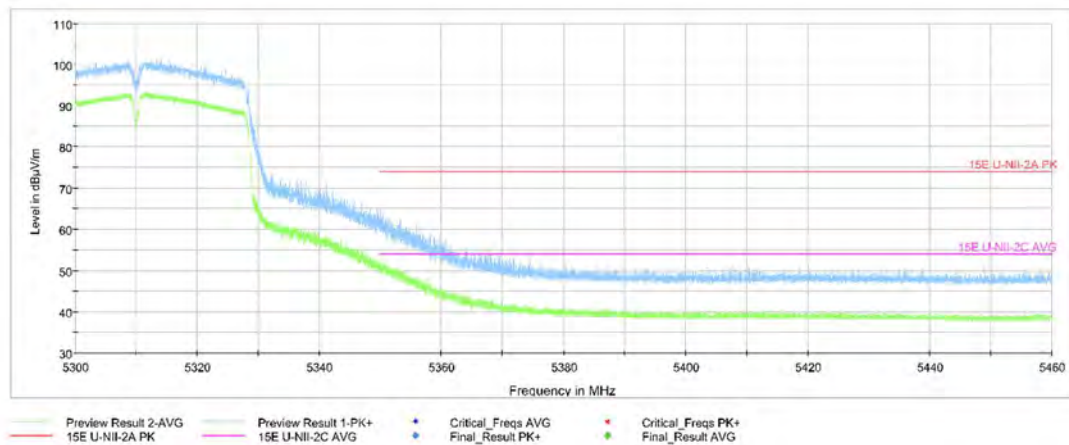


Fig.43 Band Edges (802.11n-HT40 Ch62, 5310MHz)

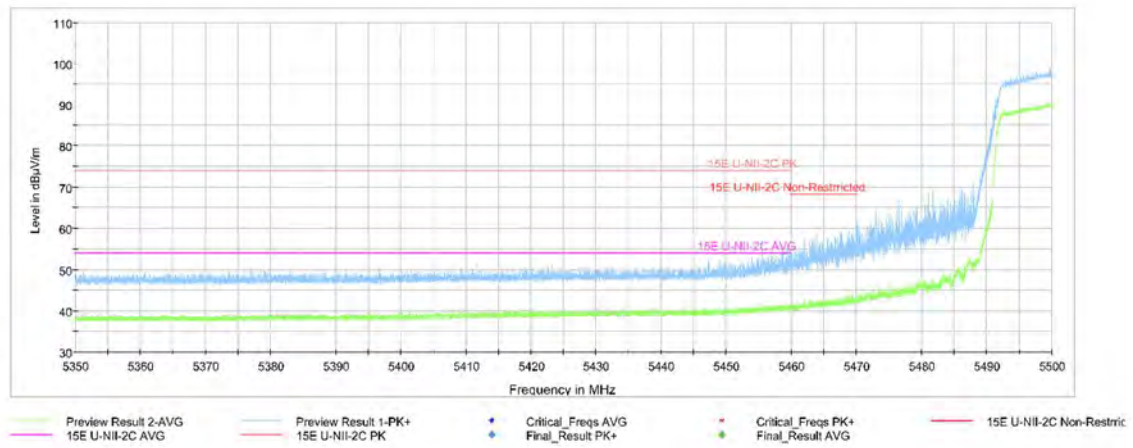


Fig.44 Band Edges (802.11n-HT40 Ch102, 5510MHz)

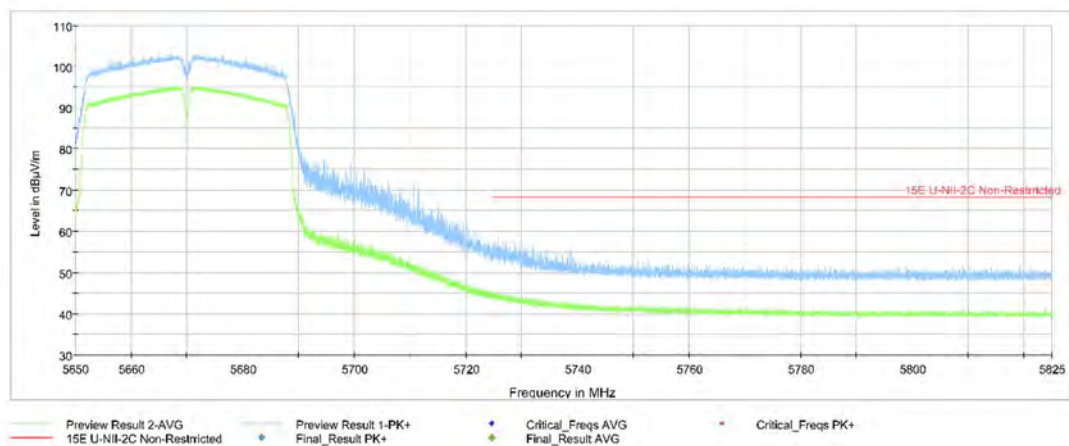


Fig.45 Band Edges (802.11n-HT40 Ch134, 5670MHz)

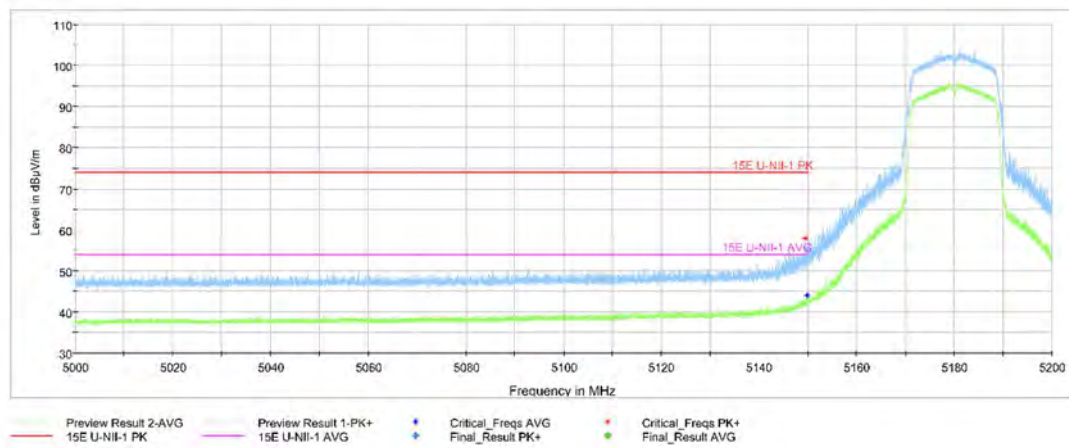


Fig.46 Band Edges (802.11ac-HT20 Ch36, 5180MHz)

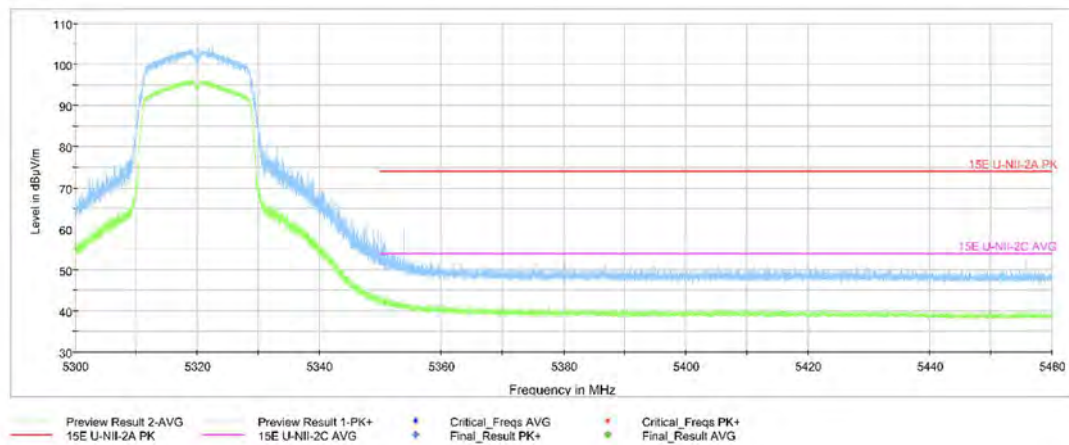


Fig.47 Band Edges (802.11ac-HT20 Ch64, 5320MHz)

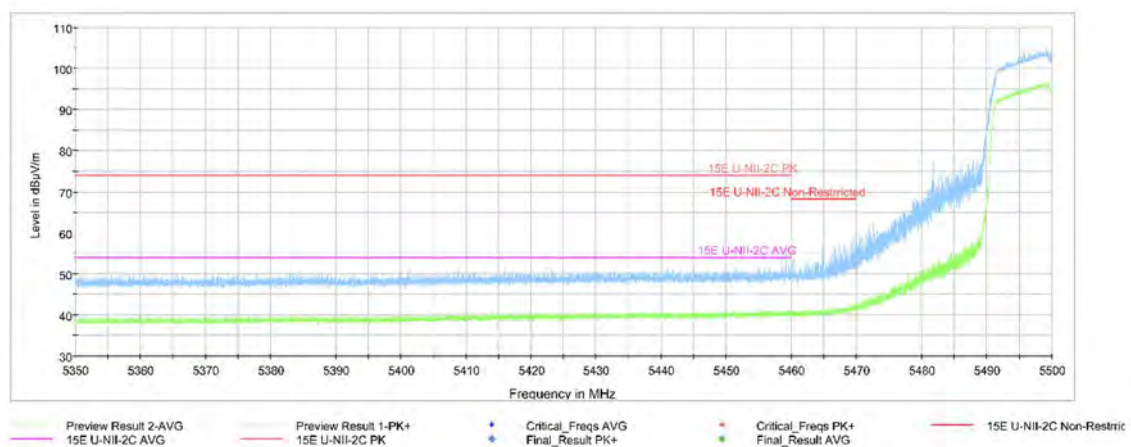


Fig.48 Band Edges (802.11ac-HT20 Ch100, 5500MHz)

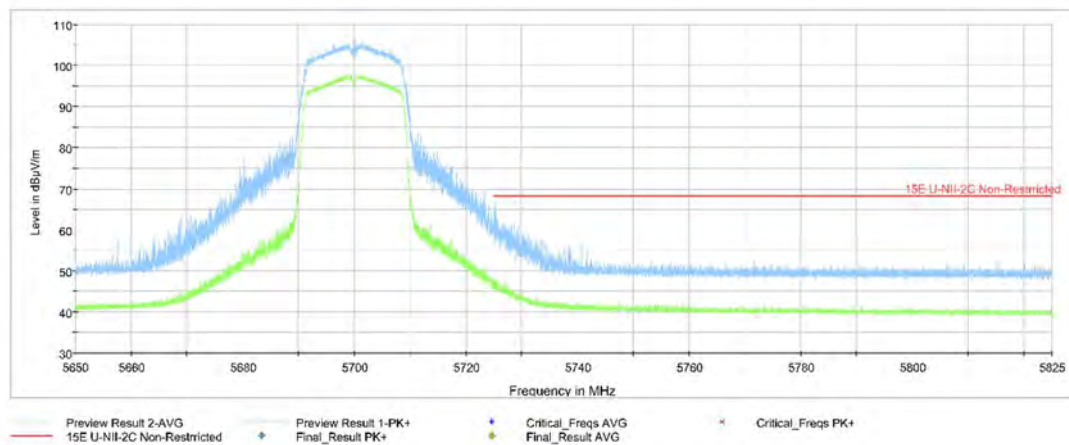


Fig.49 Band Edges (802.11ac-HT20 Ch140, 5700MHz)

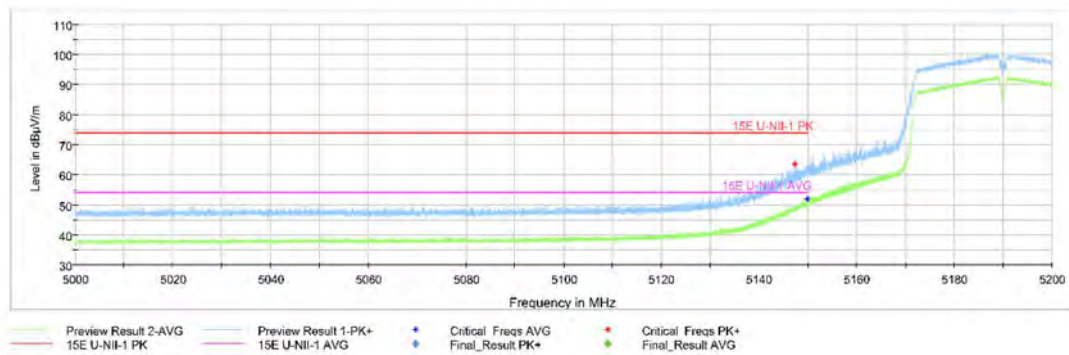


Fig.50 Band Edges (802.11ac-HT40 Ch38, 5190MHz)

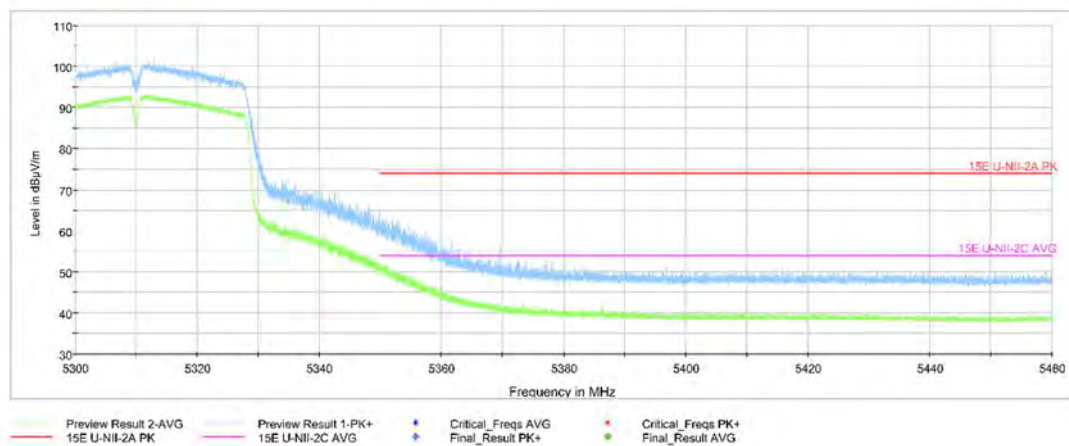


Fig.51 Band Edges (802.11ac-HT40 Ch62, 5310MHz)

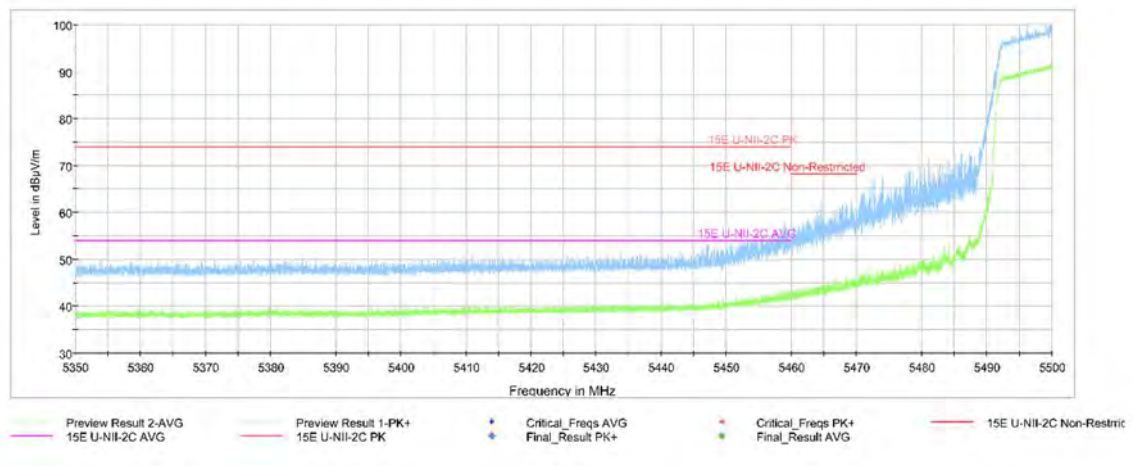


Fig.52 Band Edges (802.11ac-HT40 Ch102, 5510MHz)

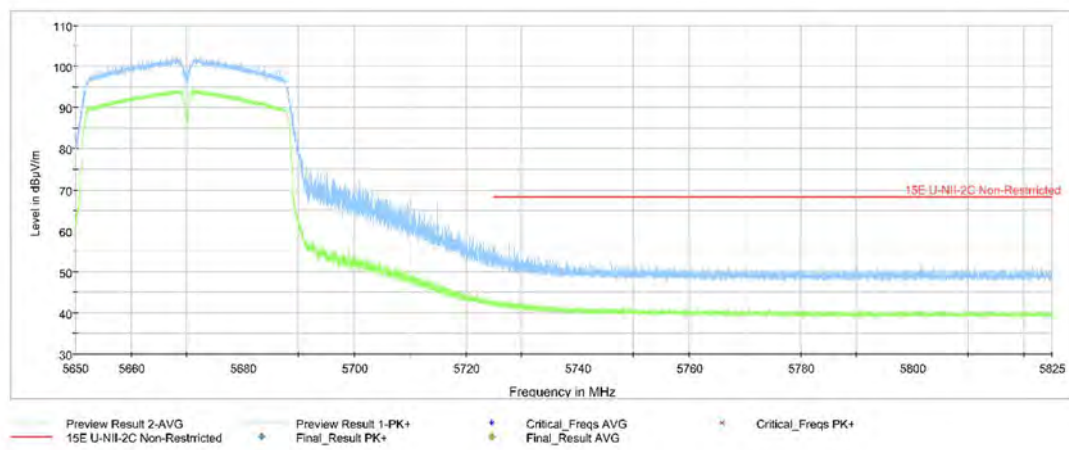


Fig.53 Band Edges (802.11ac-HT40 Ch134, 5670MHz)

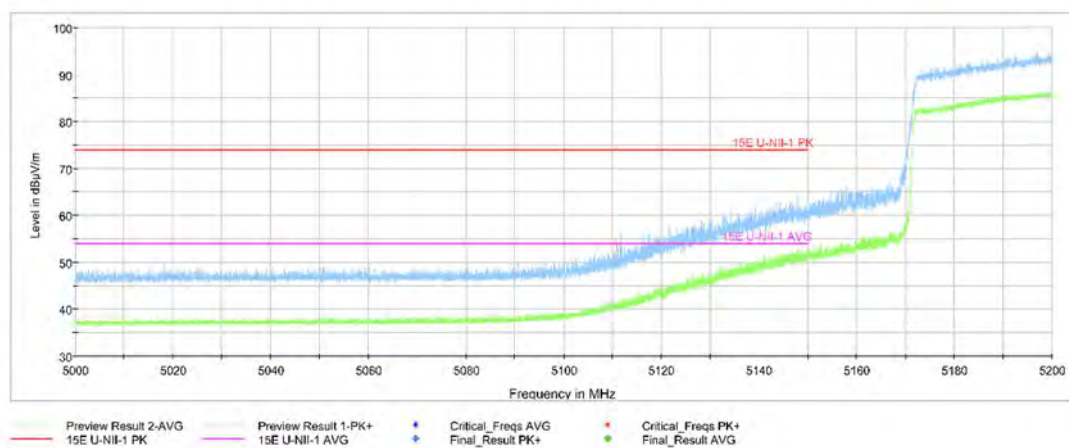


Fig.54 Band Edges (802.11ac-HT80 Ch42, 5210MHz)

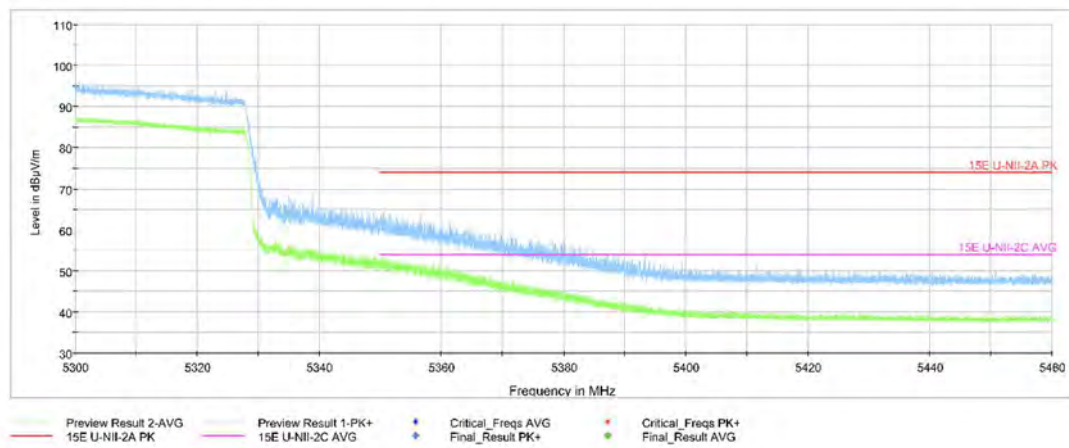


Fig.55 Band Edges (802.11ac-HT80 Ch58, 5290MHz)

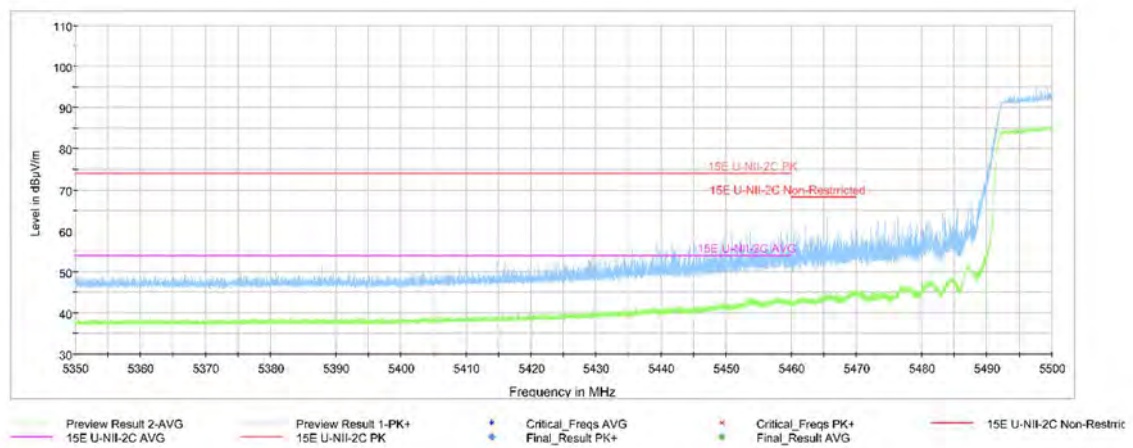


Fig.56 Band Edges (802.11ac-HT80 Ch106, 5530MHz)

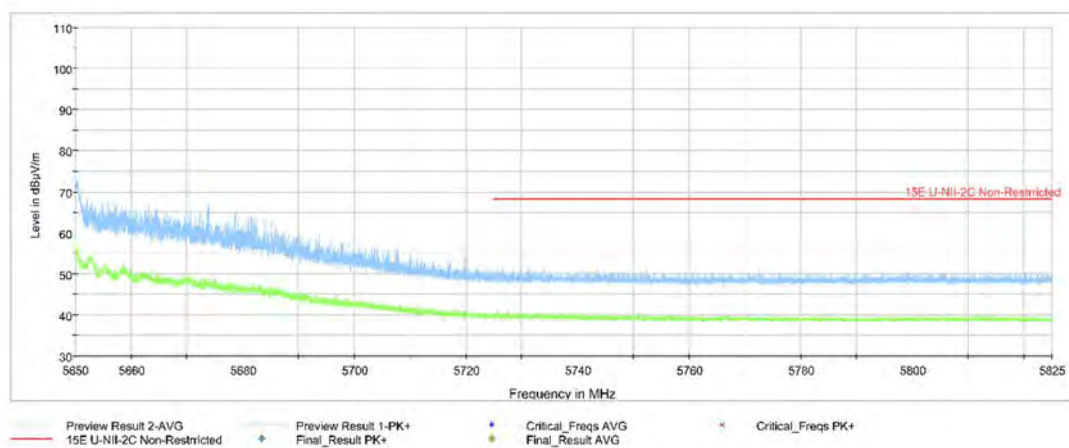


Fig.57 Band Edges (802.11ac-HT80 Ch122, 5610MHz)

A.6. Transmitter Spurious Emission

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.407	-27 dBm/MHz

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(dBuV/m)	Measurement distance(m)
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

The measurement is made according to ANSI C63.10-2013 and KDB 789033

Measurement Results:

802.11a mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11a	36(5180MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	40(5200MHz)	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
	48(5240MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	52(5260MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	56(5280MHz)	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
	64(5320MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	100(5500MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	120(5600MHz)	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
	140(5700MHz)	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	36(5180MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	40(5200MHz)	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
	48(5240MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	52(5260MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	56(5280MHz)	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
	64(5320MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	100(5500MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	120(5600MHz)	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
	140(5700MHz)	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	38(5190MHz)	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
	46(5230MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	54(5270MHz)	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
	62(5310MHz)	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
	102(5510MHz)	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
	118(5590MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	134(5670MHz)	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

802.11ac-HT20 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11ac -HT20	36(5180MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	40(5200MHz)	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
	48(5240MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	52(5260MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	56(5280MHz)	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
	64(5320MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	100(5500MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	120(5600MHz)	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
	140(5700MHz)	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	38(5190MHz)	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
	46(5230MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	54(5270MHz)	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
	62(5310MHz)	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
	102(5510MHz)	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
	118(5590MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	134(5670MHz)	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

802.11ac-HT80 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11ac -HT80	42(5210MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	58(5290MHz)	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
	106(5530MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	122(5610MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 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.

The measurement results are obtained as described below:

$$\text{Result} = P_{Mea} + A_{Rpl} = P_{Mea} + \text{Cable Loss} + \text{Antenna Factor}$$

AVERAGE Results:
802.11a
Channel 36

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17958.200	37.98	-25.50	46.66	16.82	54.00	16.02	V
17997.250	37.66	-25.50	46.66	16.50	54.00	16.34	V
8287.550	37.58	-34.97	37.56	34.98	54.00	16.42	V
8288.100	36.56	-34.97	37.56	33.96	54.00	17.44	V
5149.800	45.84	-27.61	33.67	39.78	54.00	8.16	H
5149.900	45.79	-27.61	33.67	39.73	54.00	8.21	H

Channel 40

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)
17943.350	38.73	-25.50	46.66	17.57	54.00	15.27	V
17975.250	38.46	-25.50	46.66	17.30	54.00	15.54	V
8320.000	36.85	-34.97	37.56	34.25	54.00	17.15	V
13278.800	35.35	-29.67	39.55	25.47	54.00	18.65	V
8319.450	35.30	-34.97	37.56	32.70	54.00	18.70	V
13301.900	35.14	-29.49	39.71	24.92	54.00	18.86	V

Channel 48

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17958.750	37.97	-25.50	46.66	16.81	54.00	16.03	V
17973.050	37.93	-25.50	46.66	16.77	54.00	16.07	V
8383.800	35.64	-34.50	37.68	32.46	54.00	18.36	V
13305.200	35.19	-29.49	39.71	24.97	54.00	18.81	V
13307.950	35.15	-29.49	39.71	24.93	54.00	18.85	V
11890.050	34.87	-31.85	39.05	27.67	54.00	19.13	V

Channel 52

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)
17977.450	37.36	-25.50	46.66	16.20	54.00	16.64	H
17979.650	37.34	-25.50	46.66	16.18	54.00	16.66	H
13312.350	35.08	-29.49	39.71	24.86	54.00	18.92	H
13287.600	35.00	-29.67	39.55	25.12	54.00	19.00	V
11891.150	34.10	-31.85	39.05	26.90	54.00	19.90	H
11884.550	33.89	-31.85	39.05	26.69	54.00	20.11	V

Channel 56

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	37.30	-25.50	46.66	16.14	54.00	16.70	V
17995.600	37.30	-25.50	46.66	16.14	54.00	16.70	V
13303.550	35.01	-29.49	39.71	24.79	54.00	18.99	V
13283.200	34.72	-29.67	39.55	24.84	54.00	19.28	H
11888.400	34.18	-31.85	39.05	26.98	54.00	19.82	V
11884.000	34.10	-31.85	39.05	26.90	54.00	19.90	V

Channel 64

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17975.800	37.42	-25.50	46.66	16.26	54.00	16.58	V
17952.700	37.41	-25.50	46.66	16.25	54.00	16.59	V
13310.700	34.86	-29.49	39.71	24.64	54.00	19.14	V
13295.300	34.81	-29.49	39.71	24.59	54.00	19.19	V
5351.200	44.52	-27.43	34.01	37.94	54.00	9.48	H
5350.304	44.27	-27.43	34.01	37.69	54.00	9.73	H

Channel 100

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)
17979.650	37.82	-25.50	46.66	16.66	54.00	16.18	V
17964.250	37.75	-25.50	46.66	16.59	54.00	16.25	H
13300.250	35.32	-29.49	39.71	25.10	54.00	18.68	H
13301.350	35.26	-29.49	39.71	25.04	54.00	18.74	V
5459.395	42.72	-27.18	34.17	35.73	54.00	11.28	H
5459.515	42.43	-27.18	34.17	35.44	54.00	11.57	H

Channel 120

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)
17940.050	37.84	-25.50	46.66	16.68	54.00	16.16	V
17972.500	37.71	-25.50	46.66	16.55	54.00	16.29	H
13303.000	35.69	-29.49	39.71	25.47	54.00	18.31	V
13258.450	35.27	-29.67	39.55	25.39	54.00	18.73	V
11891.700	34.59	-31.85	39.05	27.39	54.00	19.41	V
11909.850	34.21	-31.85	39.05	27.01	54.00	19.79	V

Channel 140

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)
17945.550	37.97	-25.50	46.66	16.81	54.00	16.03	V
17992.300	37.75	-25.50	46.66	16.59	54.00	16.25	V
13312.350	35.61	-29.49	39.71	25.39	54.00	18.39	V
13298.600	35.46	-29.49	39.71	25.24	54.00	18.54	V
11876.300	34.20	-31.85	39.05	27.00	54.00	19.80	V
11896.100	33.97	-31.85	39.05	26.77	54.00	20.03	V

Channel 144

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)
17951.050	38.27	-25.50	46.66	17.11	54.00	15.73	V
17954.900	37.90	-25.50	46.66	16.74	54.00	16.10	V
13296.400	35.63	-29.49	39.71	25.41	54.00	18.37	V
13289.250	35.41	-29.67	39.55	25.53	54.00	18.59	V
11786.650	34.58	-31.99	38.98	27.59	54.00	19.42	H
11879.600	34.43	-31.85	39.05	27.23	54.00	19.57	V

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Channel 36

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)
17945.550	38.29	-25.50	46.66	17.13	54.00	15.71	V
17997.250	38.03	-25.50	46.66	16.87	54.00	15.97	H
8287.550	37.91	-34.97	37.56	35.31	54.00	16.09	V
8288.100	37.15	-34.97	37.56	34.55	54.00	16.85	V
5149.860	46.56	-27.61	33.67	40.50	54.00	7.44	H
5148.960	45.94	-27.61	33.67	39.88	54.00	8.06	H

Channel 40

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)
17970.850	37.96	-25.50	46.66	16.80	54.00	16.04	V
17959.300	37.92	-25.50	46.66	16.76	54.00	16.08	V
8320.000	35.52	-34.97	37.56	32.92	54.00	18.48	V
13305.750	35.46	-29.49	39.71	25.24	54.00	18.54	V
13303.000	35.36	-29.49	39.71	25.14	54.00	18.64	V
8319.450	34.66	-34.97	37.56	32.06	54.00	19.34	V

Channel 48

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)
17942.250	37.70	-25.50	46.66	16.54	54.00	16.30	V
17980.750	37.69	-25.50	46.66	16.53	54.00	16.31	H
8383.800	35.83	-34.50	37.68	32.65	54.00	18.17	V
13301.900	35.38	-29.49	39.71	25.16	54.00	18.62	V
13307.400	35.33	-29.49	39.71	25.11	54.00	18.67	V
11888.950	34.46	-31.85	39.05	27.26	54.00	19.54	V

Channel 52

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)
17976.350	37.70	-25.50	46.66	16.54	54.00	16.30	H
17965.900	37.28	-25.50	46.66	16.12	54.00	16.72	V
13303.550	35.09	-29.49	39.71	24.87	54.00	18.91	V
13299.700	34.93	-29.49	39.71	24.71	54.00	19.07	V
11296.600	33.81	-32.36	38.77	27.41	54.00	20.19	V
11906.550	33.64	-31.85	39.05	26.44	54.00	20.36	H

Channel 56

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17959.300	37.35	-25.50	46.66	16.19	54.00	16.65	V
17976.350	37.22	-25.50	46.66	16.06	54.00	16.78	V
13298.600	35.12	-29.49	39.71	24.90	54.00	18.88	V
13285.400	35.10	-29.67	39.55	25.22	54.00	18.90	V
11914.800	33.54	-31.48	39.09	25.93	54.00	20.46	V
11125.000	33.49	-32.60	38.75	27.35	54.00	20.51	V

Channel 64

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)
17981.850	37.58	-25.50	46.66	16.42	54.00	16.42	V
17980.200	37.48	-25.50	46.66	16.32	54.00	16.52	V
13293.100	34.81	-29.49	39.71	24.59	54.00	19.19	V
13296.950	34.79	-29.49	39.71	24.57	54.00	19.21	H
5351.136	45.26	-27.43	34.01	38.68	54.00	8.74	H
5351.280	45.16	-27.43	34.01	38.58	54.00	8.84	H

Channel 100

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)
17995.050	37.93	-25.50	46.66	16.77	54.00	16.07	H
17952.700	37.70	-25.50	46.66	16.54	54.00	16.30	V
13277.150	35.61	-29.67	39.55	25.73	54.00	18.39	V
13298.050	35.20	-29.49	39.71	24.98	54.00	18.80	V
5459.485	42.26	-27.18	34.17	35.27	54.00	11.74	H

5459.395	42.18	-27.18	34.17	35.19	54.00	11.82	H
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Channel 120

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	38.09	-25.50	46.66	16.93	54.00	15.91	V
17995.600	37.72	-25.50	46.66	16.56	54.00	16.28	H
13296.950	35.31	-29.49	39.71	25.09	54.00	18.69	H
13312.350	35.06	-29.49	39.71	24.84	54.00	18.94	H
11875.200	34.22	-31.85	39.05	27.02	54.00	19.78	V
11908.200	34.16	-31.85	39.05	26.96	54.00	19.84	H

Channel 140

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)
17949.950	38.00	-25.50	46.66	16.84	54.00	16.00	V
17995.600	37.83	-25.50	46.66	16.67	54.00	16.17	V
13303.000	35.40	-29.49	39.71	25.18	54.00	18.60	H
13301.350	35.14	-29.49	39.71	24.92	54.00	18.86	V
11884.550	34.43	-31.85	39.05	27.23	54.00	19.57	H
11893.350	34.23	-31.85	39.05	27.03	54.00	19.77	V

Channel 144

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17992.850	38.02	-25.50	46.66	16.86	54.00	15.98	V
17991.200	38.01	-25.50	46.66	16.85	54.00	15.99	V
13293.100	35.38	-29.49	39.71	25.16	54.00	18.62	V
13308.500	35.20	-29.49	39.71	24.98	54.00	18.80	V
11910.950	34.37	-31.85	39.05	27.17	54.00	19.63	V
11887.850	34.30	-31.85	39.05	27.10	54.00	19.70	V

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Channel 38

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)
17864.150	38.15	-25.50	46.66	16.99	54.00	15.85	V
17944.450	38.14	-25.50	46.66	16.98	54.00	15.86	V
8304.050	37.21	-34.97	37.56	34.61	54.00	16.79	V
8303.500	36.58	-34.97	37.56	33.98	54.00	17.42	V
5149.960	50.00	-27.61	33.67	43.94	54.00	4.00	H
5147.980	49.88	-27.61	33.67	43.82	54.00	4.12	H

Channel 46

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17997.250	38.20	-25.50	46.66	17.04	54.00	15.80	H
17948.300	38.12	-25.50	46.66	16.96	54.00	15.88	V
13299.700	35.59	-29.49	39.71	25.37	54.00	18.41	V
8367.850	35.58	-34.50	37.68	32.40	54.00	18.42	V
13305.200	35.42	-29.49	39.71	25.20	54.00	18.58	H
11900.500	34.42	-31.85	39.05	27.22	54.00	19.58	V

Channel 54

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)
17973.600	38.21	-25.50	46.66	17.05	54.00	15.79	H
17959.850	37.57	-25.50	46.66	16.41	54.00	16.43	V
13301.900	35.51	-29.49	39.71	25.29	54.00	18.49	V
13306.300	35.13	-29.49	39.71	24.91	54.00	18.87	V
11912.600	34.15	-31.85	39.05	26.95	54.00	19.85	V
11892.250	33.94	-31.85	39.05	26.74	54.00	20.06	V

Channel 62

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)
17965.350	37.87	-25.50	46.66	16.71	54.00	16.13	H
17994.500	37.73	-25.50	46.66	16.57	54.00	16.27	V
13291.450	35.31	-29.49	39.71	25.09	54.00	18.69	V
13294.200	35.01	-29.49	39.71	24.79	54.00	18.99	V
5350.544	52.43	-27.43	34.01	45.85	54.00	1.57	H
5350.608	51.72	-27.43	34.01	45.14	54.00	2.28	H

Channel 102

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17997.800	37.97	-25.50	46.66	16.81	54.00	16.03	V
17976.900	37.85	-25.50	46.66	16.69	54.00	16.15	V
13299.150	35.32	-29.49	39.71	25.10	54.00	18.68	V
13300.800	35.24	-29.49	39.71	25.02	54.00	18.76	V
5459.140	41.90	-27.18	34.17	34.91	54.00	12.10	H
5455.510	41.75	-27.18	34.17	34.76	54.00	12.25	H

Channel 118

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17953.250	38.03	-25.50	46.66	16.87	54.00	15.97	V
17997.250	37.98	-25.50	46.66	16.82	54.00	16.02	V
13293.650	35.82	-29.49	39.71	25.60	54.00	18.18	H
13288.150	35.46	-29.67	39.55	25.58	54.00	18.54	V
11908.750	34.22	-31.85	39.05	27.02	54.00	19.78	V
11903.250	34.19	-31.85	39.05	26.99	54.00	19.81	H

Channel 134

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)
17985.150	38.09	-25.50	46.66	16.93	54.00	15.91	V
17941.700	37.77	-25.50	46.66	16.61	54.00	16.23	V
13285.950	35.59	-29.67	39.55	25.71	54.00	18.41	V
13298.600	35.43	-29.49	39.71	25.21	54.00	18.57	V
11892.800	34.71	-31.85	39.05	27.51	54.00	19.29	V
11783.900	34.20	-31.99	38.98	27.21	54.00	19.80	V

Channel 142

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)
17985.700	38.05	-25.50	46.66	16.89	54.00	15.95	H
17960.950	38.01	-25.50	46.66	16.85	54.00	15.99	V
13279.350	35.37	-29.67	39.55	25.49	54.00	18.63	V
13296.950	35.35	-29.49	39.71	25.13	54.00	18.65	V
11906.550	34.47	-31.85	39.05	27.27	54.00	19.53	V
11890.050	34.43	-31.85	39.05	27.23	54.00	19.57	V

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Channel 36

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)
8287.550	37.86	-34.97	37.56	35.26	54.00	16.14	V
17961.500	37.78	-25.50	46.66	16.62	54.00	16.22	V
17993.400	37.77	-25.50	46.66	16.61	54.00	16.23	V
8288.100	36.58	-34.97	37.56	33.98	54.00	17.42	V
5149.940	44.09	-27.61	33.67	38.03	54.00	9.91	H
5149.980	43.32	-27.61	33.67	37.26	54.00	10.68	H

Channel 40

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17966.450	38.49	-25.50	46.66	17.33	54.00	15.51	V
17980.750	38.10	-25.50	46.66	16.94	54.00	15.90	V
8320.000	37.15	-34.97	37.56	34.55	54.00	16.85	V
8319.450	36.16	-34.97	37.56	33.56	54.00	17.84	V
13281.550	35.39	-29.67	39.55	25.51	54.00	18.61	H
13307.400	35.29	-29.49	39.71	25.07	54.00	18.71	H

Channel 48

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17964.250	38.18	-25.50	46.66	17.02	54.00	15.82	V
17987.350	38.01	-25.50	46.66	16.85	54.00	15.99	H
13303.000	35.28	-29.49	39.71	25.06	54.00	18.72	V
13294.750	35.17	-29.49	39.71	24.95	54.00	18.83	V
11880.700	34.49	-31.85	39.05	27.29	54.00	19.51	V
11893.900	34.31	-31.85	39.05	27.11	54.00	19.69	V

Channel 52

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)
17984.050	37.81	-25.50	46.66	16.65	54.00	16.19	H
17968.650	37.56	-25.50	46.66	16.40	54.00	16.44	V
13291.450	35.19	-29.49	39.71	24.97	54.00	18.81	V
13307.950	35.16	-29.49	39.71	24.94	54.00	18.84	V
8415.700	33.95	-34.35	37.79	30.51	54.00	20.05	V
11886.750	33.91	-31.85	39.05	26.71	54.00	20.09	V

Channel 56

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17997.800	37.73	-25.50	46.66	16.57	54.00	16.27	H
17995.050	37.68	-25.50	46.66	16.52	54.00	16.32	V
13298.050	34.77	-29.49	39.71	24.55	54.00	19.23	V
13290.900	34.69	-29.67	39.55	24.81	54.00	19.31	V
11793.250	33.99	-31.99	38.98	27.00	54.00	20.01	V
11892.250	33.78	-31.85	39.05	26.58	54.00	20.22	V

Channel 64

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17959.300	37.57	-25.50	46.66	16.41	54.00	16.43	V
17974.150	37.43	-25.50	46.66	16.27	54.00	16.57	V
13299.700	34.97	-29.49	39.71	24.75	54.00	19.03	V
13303.000	34.77	-29.49	39.71	24.55	54.00	19.23	V
5350.224	43.68	-27.43	34.01	37.10	54.00	10.32	H
5351.232	43.29	-27.43	34.01	36.71	54.00	10.71	H

Channel 100

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)
17980.200	37.83	-25.50	46.66	16.67	54.00	16.17	V
17956.550	37.75	-25.50	46.66	16.59	54.00	16.25	V
13300.250	35.90	-29.49	39.71	25.68	54.00	18.10	V
13298.600	35.11	-29.49	39.71	24.89	54.00	18.89	H
5455.855	41.36	-27.18	34.17	34.37	54.00	12.64	H
5452.855	41.17	-27.18	34.17	34.18	54.00	12.83	H

Channel 120

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	37.79	-25.50	46.66	16.63	54.00	16.21	V
17965.350	37.73	-25.50	46.66	16.57	54.00	16.27	H
13303.000	35.63	-29.49	39.71	25.41	54.00	18.37	V
13305.750	35.23	-29.49	39.71	25.01	54.00	18.77	H
11892.250	34.78	-31.85	39.05	27.58	54.00	19.22	V
11890.050	34.23	-31.85	39.05	27.03	54.00	19.77	V

Channel 140

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	37.88	-25.50	46.66	16.72	54.00	16.12	V
17983.500	37.87	-25.50	46.66	16.71	54.00	16.13	V
13299.700	35.44	-29.49	39.71	25.22	54.00	18.56	V
13307.950	35.40	-29.49	39.71	25.18	54.00	18.60	V
11792.700	34.20	-31.99	38.98	27.21	54.00	19.80	V
11891.150	34.14	-31.85	39.05	26.94	54.00	19.86	V

Channel 144

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17966.450	38.02	-25.50	46.66	16.86	54.00	15.98	V
17963.150	37.96	-25.50	46.66	16.80	54.00	16.04	V
13304.650	35.53	-29.49	39.71	25.31	54.00	18.47	V
13306.850	35.35	-29.49	39.71	25.13	54.00	18.65	V
11782.800	34.45	-31.99	38.98	27.46	54.00	19.55	V
11783.900	34.32	-31.99	38.98	27.33	54.00	19.68	V

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Channel 38

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17953.250	38.26	-25.50	46.66	17.10	54.00	15.74	V
17973.600	37.91	-25.50	46.66	16.75	54.00	16.09	V
8303.500	36.21	-34.97	37.56	33.61	54.00	17.79	V
8304.050	35.71	-34.97	37.56	33.11	54.00	18.29	V
5149.880	51.91	-27.61	33.67	45.85	54.00	2.09	H
5149.340	51.81	-27.61	33.67	45.75	54.00	2.19	H

Channel 46

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17993.950	38.08	-25.50	46.66	16.92	54.00	15.92	V
17958.200	38.06	-25.50	46.66	16.90	54.00	15.94	V
13310.700	35.62	-29.49	39.71	25.40	54.00	18.38	H
13275.500	35.48	-29.67	39.55	25.60	54.00	18.52	H
8367.850	35.07	-34.50	37.68	31.89	54.00	18.93	V
11877.400	34.33	-31.85	39.05	27.13	54.00	19.67	H

Channel 54

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)
17936.750	38.19	-25.50	46.66	17.03	54.00	15.81	V
17961.500	37.99	-25.50	46.66	16.83	54.00	16.01	V
13281.000	35.32	-29.67	39.55	25.44	54.00	18.68	V
13298.050	35.07	-29.49	39.71	24.85	54.00	18.93	V
11898.300	34.21	-31.85	39.05	27.01	54.00	19.79	V
11881.800	34.05	-31.85	39.05	26.85	54.00	19.95	H

Channel 62

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	37.93	-25.50	46.66	16.77	54.00	16.07	H
17996.700	37.67	-25.50	46.66	16.51	54.00	16.33	V
13301.900	34.76	-29.49	39.71	24.54	54.00	19.24	V
13296.400	34.70	-29.49	39.71	24.48	54.00	19.30	V
5350.176	51.68	-27.43	34.01	45.10	54.00	2.32	H
5350.960	51.63	-27.43	34.01	45.05	54.00	2.37	H

Channel 102

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17987.900	37.83	-25.50	46.66	16.67	54.00	16.17	V
17963.700	37.76	-25.50	46.66	16.60	54.00	16.24	H
13294.200	35.39	-29.49	39.71	25.17	54.00	18.61	H
13314.550	35.30	-29.49	39.71	25.08	54.00	18.70	V
5458.780	43.68	-27.18	34.17	36.69	54.00	10.32	H
5459.365	43.48	-27.18	34.17	36.49	54.00	10.52	H

Channel 118

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17975.800	37.80	-25.50	46.66	16.64	54.00	16.20	H
17968.100	37.68	-25.50	46.66	16.52	54.00	16.32	V
13297.500	35.64	-29.49	39.71	25.42	54.00	18.36	V
13293.650	35.46	-29.49	39.71	25.24	54.00	18.54	V
11774.000	34.61	-31.99	38.98	27.62	54.00	19.39	V
11886.200	34.16	-31.85	39.05	26.96	54.00	19.84	V

Channel 134

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	38.05	-25.50	46.66	16.89	54.00	15.95	H
17964.800	37.96	-25.50	46.66	16.80	54.00	16.04	V
13304.650	36.27	-29.49	39.71	26.05	54.00	17.73	V
13307.400	35.41	-29.49	39.71	25.19	54.00	18.59	V
11879.600	34.51	-31.85	39.05	27.31	54.00	19.49	V

11893.900	34.48	-31.85	39.05	27.28	54.00	19.52	V
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Channel 142

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17995.600	38.38	-25.50	46.66	17.22	54.00	15.62	V
17993.950	38.02	-25.50	46.66	16.86	54.00	15.98	V
13298.600	35.37	-29.49	39.71	25.15	54.00	18.63	V
13300.250	35.36	-29.49	39.71	25.14	54.00	18.64	V
11904.900	34.41	-31.85	39.05	27.21	54.00	19.59	V
11890.600	34.28	-31.85	39.05	27.08	54.00	19.72	V

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Channel 42

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)
17995.050	37.97	-25.50	46.66	16.81	54.00	16.03	H
17978.000	37.94	-25.50	46.66	16.78	54.00	16.06	H
8335.950	35.91	-34.50	37.68	32.73	54.00	18.09	V
13294.750	35.23	-29.49	39.71	25.01	54.00	18.77	H
5148.820	52.69	-27.61	33.67	46.63	54.00	1.31	H
5148.020	52.59	-27.61	33.67	46.53	54.00	1.41	H

Channel 58

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)
17973.600	37.94	-25.50	46.66	16.78	54.00	16.06	V
17972.500	37.88	-25.50	46.66	16.72	54.00	16.12	H
13299.700	35.27	-29.49	39.71	25.05	54.00	18.73	V
13300.800	35.14	-29.49	39.71	24.92	54.00	18.86	V
5351.008	53.48	-27.43	34.01	46.90	54.00	0.52	H
5350.608	53.23	-27.43	34.01	46.65	54.00	0.77	H

Channel 106

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)
17954.350	38.05	-25.50	46.66	16.89	54.00	15.95	V
17998.350	38.04	-25.50	46.66	16.88	54.00	15.96	V
13294.200	35.31	-29.49	39.71	25.09	54.00	18.69	H
13309.600	35.24	-29.49	39.71	25.02	54.00	18.76	V
5457.700	44.13	-27.18	34.17	37.14	54.00	9.87	H
5458.060	44.01	-27.18	34.17	37.02	54.00	9.99	H

Channel 122

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17971.400	37.89	-25.50	46.66	16.73	54.00	16.11	V
17907.600	37.75	-25.50	46.66	16.59	54.00	16.25	H
13310.700	35.66	-29.49	39.71	25.44	54.00	18.34	V
13303.000	35.37	-29.49	39.71	25.15	54.00	18.63	V
11895.550	34.16	-31.85	39.05	26.96	54.00	19.84	V
11904.350	34.14	-31.85	39.05	26.94	54.00	19.86	V

Channel 138

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)
17962.050	38.70	-25.50	46.66	17.54	54.00	15.30	V
17963.700	38.12	-25.50	46.66	16.96	54.00	15.88	V
13272.200	35.87	-29.67	39.55	25.99	54.00	18.13	V
13296.400	35.35	-29.49	39.71	25.13	54.00	18.65	V
11893.900	34.56	-31.85	39.05	27.36	54.00	19.44	V
11885.100	34.53	-31.85	39.05	27.33	54.00	19.47	V

PEAK Results:
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Channel 36

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)
17831.700	49.01	-25.50	46.66	27.85	74.00	24.99	V
17442.850	48.56	-26.85	45.25	30.16	68.20	19.64	V
13694.600	46.86	-29.10	40.86	35.09	68.20	21.34	V
13883.800	46.05	-29.51	41.30	34.26	68.20	22.15	H
5148.160	61.12	-27.61	33.67	55.06	74.00	12.88	H
5147.660	59.85	-27.61	33.67	53.79	74.00	14.15	H

Channel 40

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)
17910.350	48.19	-25.50	46.66	27.03	74.00	25.81	V
17082.600	48.06	-26.60	43.36	31.30	68.20	20.14	V
13950.900	46.24	-29.51	41.30	34.45	68.20	21.96	H
14624.650	45.92	-27.29	41.90	31.31	68.20	22.28	V
8320.000	45.16	-34.97	37.56	42.56	74.00	28.84	V
10356.650	45.01	-33.68	38.17	40.51	68.20	23.19	H

Channel 48

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)
17131.000	48.62	-26.60	43.36	31.86	68.20	19.58	H
17035.300	48.50	-26.32	42.36	32.45	68.20	19.70	V
13794.150	46.26	-29.10	40.86	34.49	68.20	21.94	V
13936.600	45.94	-29.51	41.30	34.15	68.20	22.26	V
10484.800	45.05	-32.99	38.27	39.76	68.20	23.15	V
9596.550	44.26	-33.06	37.97	39.35	68.20	23.94	V

Channel 52

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)
17329.000	48.14	-25.95	44.35	29.73	68.20	20.06	H
17134.300	48.02	-26.60	43.36	31.26	68.20	20.18	V
13844.200	45.35	-29.51	41.30	33.56	68.20	22.85	H
13856.850	45.22	-29.51	41.30	33.43	68.20	22.98	V
11788.850	44.23	-31.99	38.98	37.24	74.00	29.77	H
11365.900	43.55	-32.42	38.79	37.18	74.00	30.45	V

Channel 56

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)
16746.000	48.27	-26.62	41.49	33.40	68.20	19.93	H
17038.050	48.11	-26.32	42.36	32.06	68.20	20.09	V
13922.850	45.22	-29.51	41.30	33.43	68.20	22.98	V
14592.750	45.22	-27.29	41.90	30.61	68.20	22.98	V
11897.200	44.09	-31.85	39.05	36.89	74.00	29.91	V
11836.150	43.65	-31.85	39.05	36.45	74.00	30.35	H

Channel 64

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)
17061.150	48.03	-26.60	43.36	31.27	68.20	20.17	H
17257.500	47.73	-25.95	44.35	29.32	68.20	20.47	V
14094.450	46.30	-29.44	41.66	34.08	68.20	21.90	V
13893.150	46.24	-29.51	41.30	34.45	68.20	21.96	H
5350.560	62.11	-27.43	34.01	55.53	74.00	11.89	H
5350.672	57.86	-27.43	34.01	51.28	74.00	16.14	H

Channel 100

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)
17224.500	48.68	-25.95	44.35	30.27	68.20	19.52	H
17126.050	48.12	-26.60	43.36	31.36	68.20	20.08	V
13281.000	46.54	-29.67	39.55	36.66	74.00	27.46	V
13939.900	46.53	-29.51	41.30	34.74	68.20	21.67	H
5458.630	55.87	-27.18	34.17	48.88	74.00	18.13	H

5469.175	61.51	-27.18	34.17	54.52	68.20	6.69	H
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Channel 120

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)
17547.900	48.30	-26.85	45.25	29.90	68.20	19.90	V
16967.100	48.05	-26.32	42.36	32.00	68.20	20.15	V
14165.400	46.80	-28.99	42.00	33.78	68.20	21.40	V
14652.700	46.31	-27.29	41.90	31.70	68.20	21.89	V
11863.650	44.36	-31.85	39.05	37.16	74.00	29.64	V
11889.500	44.29	-31.85	39.05	37.09	74.00	29.71	V

Channel 140

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)
17448.900	48.42	-26.85	45.25	30.02	68.20	19.78	V
16755.900	48.36	-26.62	41.49	33.49	68.20	19.84	V
13202.900	46.69	-29.67	39.55	36.81	68.20	21.51	H
14610.350	46.03	-27.29	41.90	31.42	68.20	22.17	V
5725.180	63.67	-27.07	34.31	56.43	68.20	4.53	H
5727.140	63.45	-27.07	34.31	56.21	68.20	4.75	H

Channel 144

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)
17453.300	48.75	-26.85	45.25	30.35	68.20	19.45	H
17289.400	48.61	-25.95	44.35	30.20	68.20	19.59	H
14607.050	46.24	-27.29	41.90	31.63	68.20	21.96	H
14090.600	46.16	-29.44	41.66	33.94	68.20	22.04	H
9722.500	44.94	-33.00	38.01	39.94	68.20	23.26	V
10393.500	44.69	-33.22	38.19	39.72	68.20	23.51	V

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Channel 36

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)
17059.500	48.98	-26.60	43.36	32.22	68.20	19.22	V
17098.000	48.61	-26.60	43.36	31.85	68.20	19.59	V
13803.500	46.65	-29.10	40.86	34.88	68.20	21.55	V
14592.750	46.25	-27.29	41.90	31.64	68.20	21.95	V
5149.920	59.36	-27.61	33.67	53.30	74.00	14.64	H
5148.640	59.06	-27.61	33.67	53.00	74.00	14.94	H

Channel 40

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)
17047.950	50.07	-26.60	43.36	33.31	68.20	18.13	V
17193.150	48.50	-26.60	43.36	31.74	68.20	19.70	V
13820.000	46.70	-29.10	40.86	34.93	68.20	21.50	H
14565.800	46.56	-27.29	41.90	31.95	68.20	21.64	V
9630.100	44.66	-33.06	37.97	39.75	68.20	23.54	V
11788.300	44.40	-31.99	38.98	37.41	74.00	29.60	H

Channel 48

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)
16860.950	48.51	-26.62	41.49	33.64	68.20	19.69	H
17967.550	48.50	-25.50	46.66	27.34	74.00	25.50	H
14665.900	46.59	-27.29	41.90	31.98	68.20	21.61	V
13689.650	46.58	-29.50	40.43	35.65	68.20	21.62	V
11885.100	44.58	-31.85	39.05	37.38	74.00	29.42	H
9492.600	44.25	-33.19	37.93	39.52	74.00	29.75	V

Channel 52

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)
17546.250	48.43	-26.85	45.25	30.03	68.20	19.77	V
17057.300	48.06	-26.60	43.36	31.30	68.20	20.14	H
13953.100	46.73	-29.51	41.30	34.94	68.20	21.47	V
13949.800	46.01	-29.51	41.30	34.22	68.20	22.19	V
10461.150	43.96	-33.22	38.19	38.99	68.20	24.24	V
11350.500	43.76	-32.42	38.79	37.39	74.00	30.24	V

Channel 56

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)
17533.050	48.26	-26.85	45.25	29.86	68.20	19.94	V
17030.900	48.18	-26.32	42.36	32.13	68.20	20.02	V
13935.500	46.17	-29.51	41.30	34.38	68.20	22.03	V
13757.300	45.64	-29.10	40.86	33.87	68.20	22.56	V
11771.800	44.41	-31.99	38.98	37.42	74.00	29.59	H
10582.700	44.08	-32.76	38.38	38.46	68.20	24.12	V

Channel 64

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)
17963.150	48.18	-25.50	46.66	27.02	74.00	25.82	V
16800.450	48.06	-26.62	41.49	33.19	68.20	20.14	V
13904.150	46.06	-29.51	41.30	34.27	68.20	22.14	H
14571.300	45.66	-27.29	41.90	31.05	68.20	22.54	H
5350.880	59.33	-27.43	34.01	52.75	74.00	14.67	H
5353.104	58.04	-27.43	34.01	51.46	74.00	15.96	H

Channel 100

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)
17529.200	49.31	-26.85	45.25	30.91	68.20	18.89	H
17923.000	48.86	-25.50	46.66	27.70	74.00	25.14	V
14656.000	46.54	-27.29	41.90	31.93	68.20	21.66	H
13729.800	46.49	-29.10	40.86	34.72	68.20	21.71	V
5458.180	52.90	-27.18	34.17	45.91	74.00	21.10	H

5469.895	59.70	-27.18	34.17	52.71	68.20	8.50	H
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Channel 120

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)
17022.100	48.48	-26.32	42.36	32.43	68.20	19.72	V
17926.300	48.46	-25.50	46.66	27.30	74.00	25.54	H
14183.000	46.71	-28.99	42.00	33.69	68.20	21.49	V
13939.350	46.63	-29.51	41.30	34.84	68.20	21.57	V
11887.300	44.84	-31.85	39.05	37.64	74.00	29.16	V
10659.700	44.62	-32.76	38.38	39.00	74.00	29.38	V

Channel 140

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)
17221.200	48.79	-25.95	44.35	30.38	68.20	19.41	V
16964.900	48.56	-26.32	42.36	32.51	68.20	19.64	V
14607.600	46.78	-27.29	41.90	32.17	68.20	21.42	V
13814.500	46.00	-29.10	40.86	34.23	68.20	22.20	V
5725.792	61.27	-27.07	34.31	54.03	68.20	6.93	H
5725.110	61.11	-27.07	34.31	53.87	68.20	7.09	H

Channel 144

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)
16936.850	48.80	-26.32	42.36	32.75	68.20	19.40	V
17549.550	48.09	-26.85	45.25	29.69	68.20	20.11	V
13968.500	46.04	-29.51	41.30	34.25	68.20	22.16	H
13925.600	46.01	-29.51	41.30	34.22	68.20	22.19	H
11138.200	44.41	-32.60	38.75	38.27	74.00	29.59	V
11273.500	44.26	-32.36	38.77	37.86	74.00	29.74	H

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Channel 38

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)
17045.200	49.74	-26.60	43.36	32.98	68.20	18.46	V
17966.450	49.06	-25.50	46.66	27.90	74.00	24.94	V
14184.650	46.31	-28.99	42.00	33.29	68.20	21.89	H
13651.700	46.25	-29.50	40.43	35.32	68.20	21.95	V
5149.380	62.99	-27.61	33.67	56.93	74.00	11.01	H
5149.860	62.69	-27.61	33.67	56.63	74.00	11.31	H

Channel 46

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)
16851.050	50.65	-26.62	41.49	35.78	68.20	17.55	V
17054.550	48.73	-26.60	43.36	31.97	68.20	19.47	V
13714.400	46.81	-29.10	40.86	35.04	68.20	21.39	V
14692.300	46.23	-28.32	41.35	33.21	68.20	21.97	V
11133.250	45.52	-32.60	38.75	39.38	74.00	28.48	H
11886.750	44.47	-31.85	39.05	37.27	74.00	29.53	V

Channel 54

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)
17534.150	48.72	-26.85	45.25	30.32	68.20	19.48	V
17056.200	48.52	-26.60	43.36	31.76	68.20	19.68	V
13931.650	45.58	-29.51	41.30	33.79	68.20	22.62	H
13965.200	45.49	-29.51	41.30	33.70	68.20	22.71	V
11802.600	44.96	-31.85	39.05	37.76	74.00	29.04	V
11863.100	44.64	-31.85	39.05	37.44	74.00	29.36	V

Channel 62

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)
16857.100	48.47	-26.62	41.49	33.60	68.20	19.73	H
17042.450	48.30	-26.32	42.36	32.25	68.20	19.90	H
13930.000	46.23	-29.51	41.30	34.44	68.20	21.97	V
14212.150	45.73	-28.99	42.00	32.71	68.20	22.47	H
5350.112	64.63	-27.43	34.01	58.05	74.00	9.37	H
5350.400	63.25	-27.43	34.01	56.67	74.00	10.75	H

Channel 102

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)
17547.900	49.13	-26.85	45.25	30.73	68.20	19.07	V
17859.750	48.71	-25.50	46.66	27.55	74.00	25.29	V
14597.150	46.58	-27.29	41.90	31.97	68.20	21.62	H
14695.050	45.64	-28.32	41.35	32.62	68.20	22.56	H
5455.585	57.07	-27.18	34.17	50.08	74.00	16.93	H
5469.835	60.12	-27.18	34.17	53.13	68.20	8.08	H

Channel 118

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)
16978.650	48.25	-26.32	42.36	32.20	68.20	19.95	V
17834.450	48.24	-25.50	46.66	27.08	74.00	25.76	V
14051.550	46.21	-29.44	41.66	33.99	68.20	21.99	V
13277.700	45.99	-29.67	39.55	36.11	74.00	28.01	V
11874.650	45.23	-31.85	39.05	38.03	74.00	28.77	H
11796.000	44.84	-31.85	39.05	37.64	74.00	29.16	V

Channel 134

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)
17456.600	48.49	-26.85	45.25	30.09	68.20	19.71	V
16746.550	48.47	-26.62	41.49	33.60	68.20	19.73	H
14613.100	46.60	-27.29	41.90	31.99	68.20	21.60	V
13878.300	46.53	-29.51	41.30	34.74	68.20	21.67	V
5725.915	58.32	-27.07	34.31	51.08	68.20	9.88	H

5727.280	57.85	-27.07	34.31	50.61	68.20	10.35	H
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Channel 142

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17964.800	48.37	-25.50	46.66	27.21	74.00	25.63	V
17471.450	48.23	-26.85	45.25	29.83	68.20	19.97	V
13686.350	46.23	-29.50	40.43	35.30	68.20	21.97	V
13923.950	45.91	-29.51	41.30	34.12	68.20	22.29	V
10449.050	44.95	-33.22	38.19	39.98	68.20	23.25	V
11772.900	44.31	-31.99	38.98	37.32	74.00	29.69	H

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Channel 36

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)
17957.650	48.96	-25.50	46.66	27.80	74.00	25.04	H
17641.400	48.50	-25.74	45.95	28.29	68.20	19.70	H
14695.600	46.76	-28.32	41.35	33.74	68.20	21.44	V
14697.250	46.43	-28.32	41.35	33.41	68.20	21.77	H
5149.480	57.91	-27.61	33.67	51.85	74.00	16.09	H
5149.760	56.13	-27.61	33.67	50.07	74.00	17.87	H

Channel 40

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)
17353.200	49.27	-25.95	44.35	30.86	68.20	18.93	V
17343.300	48.77	-25.95	44.35	30.36	68.20	19.43	V
14328.750	46.62	-28.42	42.34	32.70	68.20	21.58	V
13904.150	46.46	-29.51	41.30	34.67	68.20	21.74	H
11780.600	45.47	-31.99	38.98	38.48	74.00	28.53	H
11122.800	44.71	-32.60	38.75	38.57	74.00	29.29	V

Channel 48

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)
17539.650	48.81	-26.85	45.25	30.41	68.20	19.39	V
17910.350	48.53	-25.50	46.66	27.37	74.00	25.47	V
14700.550	46.37	-28.32	41.35	33.35	68.20	21.83	V
14725.850	46.28	-28.32	41.35	33.26	68.20	21.92	H
10484.250	45.51	-32.99	38.27	40.22	68.20	22.69	V
11880.700	45.15	-31.85	39.05	37.95	74.00	28.85	V

Channel 52

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)
16860.950	48.51	-26.62	41.49	33.64	68.20	19.69	V
17439.000	48.16	-26.85	45.25	29.76	68.20	20.04	V
13927.800	45.87	-29.51	41.30	34.08	68.20	22.33	V
13586.250	45.83	-29.50	40.43	34.90	68.20	22.37	H
10720.750	44.75	-32.77	38.49	39.03	74.00	29.25	V
11530.900	44.30	-32.26	38.84	37.73	74.00	29.70	H

Channel 56

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)
16753.150	48.59	-26.62	41.49	33.72	68.20	19.61	H
17255.300	48.48	-25.95	44.35	30.07	68.20	19.72	H
13967.950	46.15	-29.51	41.30	34.36	68.20	22.05	V
13947.600	45.93	-29.51	41.30	34.14	68.20	22.27	V
9192.850	44.59	-33.85	38.08	40.36	74.00	29.41	V
9632.300	43.74	-33.06	37.97	38.83	68.20	24.46	V

Channel 64

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17975.800	48.48	-25.50	46.66	27.32	74.00	25.52	V
17632.050	48.46	-25.74	45.95	28.25	68.20	19.74	V
13816.150	46.57	-29.10	40.86	34.80	68.20	21.63	V
13714.400	46.09	-29.10	40.86	34.32	68.20	22.11	V
5353.904	60.07	-27.43	34.01	53.49	74.00	13.93	H

5350.224	59.03	-27.43	34.01	52.45	74.00	14.97	H
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Channel 100

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)
17135.400	49.15	-26.60	43.36	32.39	68.20	19.05	V
16969.850	48.50	-26.32	42.36	32.45	68.20	19.70	V
13939.900	46.87	-29.51	41.30	35.08	68.20	21.33	V
13701.750	46.02	-29.10	40.86	34.25	68.20	22.18	V
5459.185	57.00	-27.18	34.17	50.01	74.00	17.00	H
5469.565	58.81	-27.18	34.17	51.82	68.20	9.39	H

Channel 120

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)
17206.350	48.75	-26.60	43.36	31.99	68.20	19.45	V
17332.300	48.46	-25.95	44.35	30.05	68.20	19.74	H
14567.450	45.85	-27.29	41.90	31.24	68.20	22.35	H
13777.100	45.82	-29.10	40.86	34.05	68.20	22.38	H
11874.650	44.61	-31.85	39.05	37.41	74.00	29.39	V
11890.050	44.50	-31.85	39.05	37.30	74.00	29.50	V

Channel 140

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)
17022.100	48.70	-26.32	42.36	32.65	68.20	19.50	V
17452.750	48.70	-26.85	45.25	30.30	68.20	19.50	V
14099.400	47.11	-29.44	41.66	34.89	68.20	21.09	V
14695.050	46.27	-28.32	41.35	33.25	68.20	21.93	V
5725.302	66.83	-27.07	34.31	59.59	68.20	1.37	H
5725.110	64.43	-27.07	34.31	57.19	68.20	3.77	H

Channel 144

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)
16944.000	49.30	-26.32	42.36	33.25	68.20	18.90	V
17435.150	48.42	-26.85	45.25	30.02	68.20	19.78	H
14665.900	46.34	-27.29	41.90	31.73	68.20	21.86	H
13936.050	46.32	-29.51	41.30	34.53	68.20	21.88	V
11827.900	44.33	-31.85	39.05	37.13	74.00	29.67	V

11919.200	44.22	-31.48	39.09	36.61	74.00	29.78	V
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Channel 38

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)
17258.600	48.83	-25.95	44.35	30.42	68.20	19.37	V
17458.800	48.66	-26.85	45.25	30.26	68.20	19.54	V
13622.550	46.52	-29.50	40.43	35.59	68.20	21.68	H
13303.000	46.20	-29.49	39.71	35.98	74.00	27.80	V
5147.400	63.56	-27.61	33.67	57.50	74.00	10.44	H
5149.960	63.16	-27.61	33.67	57.10	74.00	10.84	H

Channel 46

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)
17372.450	49.38	-25.95	44.35	30.97	68.20	18.82	V
16986.900	48.68	-26.32	42.36	32.63	68.20	19.52	H
14102.150	46.23	-29.44	41.66	34.01	68.20	21.97	V
13932.750	45.93	-29.51	41.30	34.14	68.20	22.27	V
11907.100	44.79	-31.85	39.05	37.59	74.00	29.21	H
11420.350	44.69	-32.42	38.79	38.32	74.00	29.31	V

Channel 54

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)
17065.000	48.53	-26.60	43.36	31.77	68.20	19.67	V
17932.900	48.06	-25.50	46.66	26.90	74.00	25.94	V
13889.300	46.01	-29.51	41.30	34.22	68.20	22.19	H
14097.200	45.61	-29.44	41.66	33.39	68.20	22.59	V
10594.800	44.81	-32.76	38.38	39.19	68.20	23.39	V
11896.100	44.26	-31.85	39.05	37.06	74.00	29.74	H

Channel 62

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17974.700	49.09	-25.50	46.66	27.93	74.00	24.91	V
17050.150	48.53	-26.60	43.36	31.77	68.20	19.67	H
13279.900	46.31	-29.67	39.55	36.43	74.00	27.69	H
13903.050	45.96	-29.51	41.30	34.17	68.20	22.24	V
5350.960	63.38	-27.43	34.01	56.80	74.00	10.62	H
5350.000	63.28	-27.43	34.01	56.70	74.00	10.72	H

Channel 102

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)
17440.650	49.04	-26.85	45.25	30.64	68.20	19.16	H
17561.100	48.57	-26.85	45.25	30.17	68.20	19.63	H
13946.500	46.00	-29.51	41.30	34.21	68.20	22.20	H
13838.700	45.83	-29.51	41.30	34.04	68.20	22.37	V
5458.975	58.14	-27.18	34.17	51.15	74.00	15.86	H
5464.600	62.56	-27.18	34.17	55.57	68.20	5.64	H

Channel 118

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)
17230.000	49.04	-25.95	44.35	30.63	68.20	19.16	V
17940.600	48.48	-25.50	46.66	27.32	74.00	25.52	H
13680.300	46.09	-29.50	40.43	35.16	68.20	22.11	H
13939.350	45.90	-29.51	41.30	34.11	68.20	22.30	V
10388.000	45.45	-33.22	38.19	40.48	68.20	22.75	H
11802.050	44.97	-31.85	39.05	37.77	74.00	29.03	H

Channel 134

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)
16869.200	48.47	-26.62	41.49	33.60	68.20	19.73	V
16952.250	48.42	-26.32	42.36	32.37	68.20	19.78	V
13805.700	46.43	-29.10	40.86	34.66	68.20	21.77	V
13945.950	46.41	-29.51	41.30	34.62	68.20	21.79	V
5727.735	57.10	-27.07	34.31	49.86	68.20	11.10	H

5728.785	56.13	-27.07	34.31	48.89	68.20	12.07	H
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Channel 142

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17958.200	49.25	-25.50	46.66	28.09	74.00	24.75	V
17451.650	48.89	-26.85	45.25	30.49	68.20	19.31	H
14117.550	46.49	-28.99	42.00	33.47	68.20	21.71	V
13163.850	46.04	-29.67	39.55	36.16	68.20	22.16	V
8854.050	44.71	-33.54	38.14	40.10	68.20	23.49	V
9488.750	44.40	-33.19	37.93	39.67	74.00	29.60	V

802.11ac-HT80

Channel 42

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)
17055.100	48.89	-26.60	43.36	32.13	68.20	19.31	V
17949.400	48.72	-25.50	46.66	27.56	74.00	25.28	H
13932.750	46.37	-29.51	41.30	34.58	68.20	21.83	V
13824.400	45.83	-29.10	40.86	34.06	68.20	22.37	H
5147.900	64.03	-27.61	33.67	57.97	74.00	9.97	H
5143.660	62.76	-27.61	33.67	56.70	74.00	11.24	H

Channel 58

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)
17040.250	48.79	-26.32	42.36	32.74	68.20	19.41	V
17356.500	48.58	-25.95	44.35	30.17	68.20	19.62	V
14103.800	46.11	-29.44	41.66	33.89	68.20	22.09	V
14566.350	46.11	-27.29	41.90	31.50	68.20	22.09	H
5350.608	64.64	-27.43	34.01	58.06	74.00	9.36	H
5352.160	64.51	-27.43	34.01	57.93	74.00	9.49	H

Channel 106

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17992.850	48.66	-25.50	46.66	27.50	74.00	25.34	V
17589.700	48.53	-25.74	45.95	28.32	68.20	19.67	V
14600.450	46.70	-27.29	41.90	32.09	68.20	21.50	V
13943.200	46.20	-29.51	41.30	34.41	68.20	22.00	V
5451.850	59.91	-27.18	34.17	52.92	74.00	14.09	H
5465.455	63.16	-27.18	34.17	56.17	68.20	5.04	H

Channel 122

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)
16951.150	48.79	-26.32	42.36	32.74	68.20	19.41	V
17131.000	48.55	-26.60	43.36	31.79	68.20	19.65	H
14522.350	46.55	-28.59	42.46	32.68	68.20	21.65	V
13185.300	46.40	-29.67	39.55	36.52	68.20	21.80	V
5725.915	51.64	-27.07	34.31	44.40	68.20	16.56	H
5731.288	51.60	-27.07	34.31	44.36	68.20	16.60	H

Channel 138

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)
17056.750	48.94	-26.60	43.36	32.18	68.20	19.26	H
17071.050	48.03	-26.60	43.36	31.27	68.20	20.17	V
13939.900	47.17	-29.51	41.30	35.38	68.20	21.03	V
14682.400	46.09	-28.32	41.35	33.07	68.20	22.11	H
10467.750	44.79	-32.99	38.27	39.50	68.20	23.41	V
10574.450	44.52	-32.76	38.38	38.90	68.20	23.68	V

A.7. AC Powerline Conducted Emission (150kHz- 30MHz)

Test Condition:

Voltage (V)	Frequency (Hz)
120	60

Measurement uncertainty:

Expanded measurement uncertainty for this test item is U =3.10dB, k=2.

Measurement Result and limit:

WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Result (dBμV)		Conclusion
		With charger AE5		
		802.11a	Idle	
0.15 to 0.5	66 to 56	Fig.58	Fig.59	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 AE5		
		802.11a	Idle	
0.15 to 0.5	67 56 to 46	Fig.58	Fig.59	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.				

Conclusion: PASS

Test graphs as below:

Traffic:

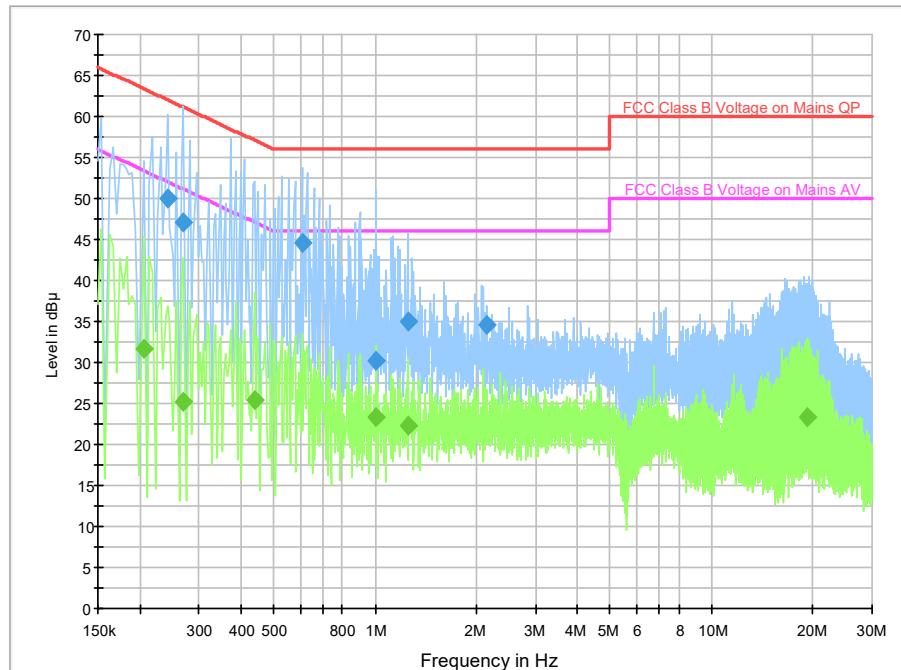


Fig.58 Conducted Emission (802.11a, Ch36, TX)

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

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.242000	49.9	2000.0	9.000	On	L1	19.7	12.1	62.0	
0.270000	47.0	2000.0	9.000	On	L1	19.7	14.1	61.1	
0.606000	44.6	2000.0	9.000	On	L1	19.7	11.4	56.0	
1.006000	30.1	2000.0	9.000	On	L1	19.7	25.9	56.0	
1.250000	35.0	2000.0	9.000	On	L1	19.6	21.0	56.0	
2.146000	34.6	2000.0	9.000	On	N	19.6	21.4	56.0	

Final Result 2

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.206000	31.7	2000.0	9.000	On	L1	19.7	21.7	53.4	
0.270000	25.2	2000.0	9.000	On	L1	19.7	25.9	51.1	
0.438000	25.3	2000.0	9.000	On	L1	19.7	21.8	47.1	
1.006000	23.3	2000.0	9.000	On	L1	19.7	22.7	46.0	
1.250000	22.4	2000.0	9.000	On	L1	19.6	23.6	46.0	
19.210000	23.2	2000.0	9.000	On	N	19.8	26.8	50.0	

Idle:

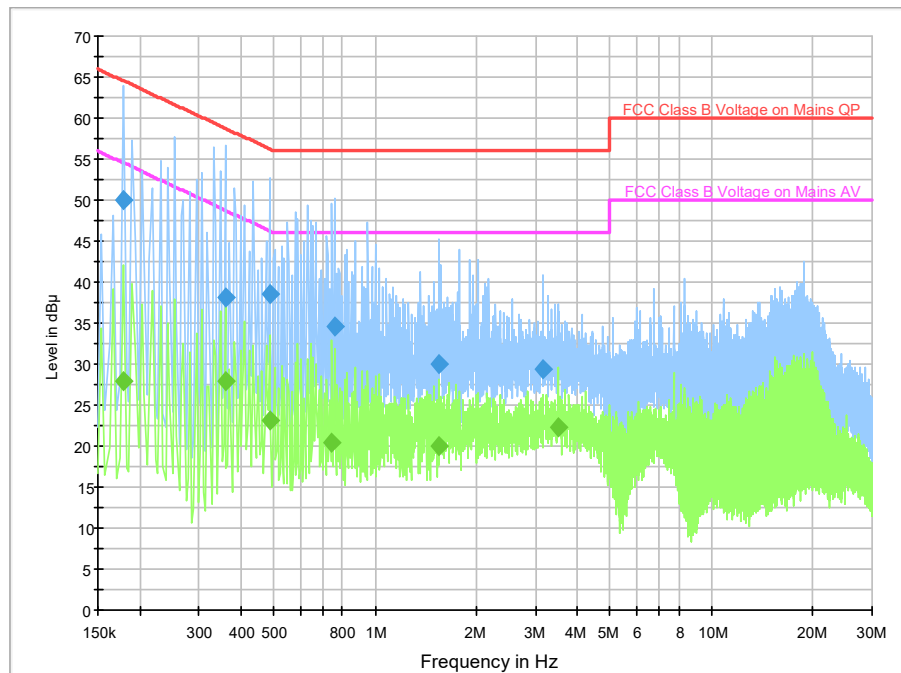


Fig.59 Conducted Emission(802.11a, IDLE)

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

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.178000	50.0	2000.0	9.000	On	N	19.7	14.6	64.6	
0.358000	38.1	2000.0	9.000	On	N	19.7	20.7	58.8	
0.486000	38.6	2000.0	9.000	On	N	19.7	17.6	56.2	
0.758000	34.6	2000.0	9.000	On	N	19.7	21.4	56.0	
1.546000	30.0	2000.0	9.000	On	N	19.6	26.0	56.0	
3.166000	29.4	2000.0	9.000	On	L1	19.6	26.6	56.0	

Final Result 2

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.178000	28.0	2000.0	9.000	On	N	19.7	26.6	54.6	
0.358000	27.9	2000.0	9.000	On	N	19.7	20.9	48.8	
0.486000	23.2	2000.0	9.000	On	N	19.7	23.1	46.2	
0.746000	20.3	2000.0	9.000	On	N	19.7	25.7	46.0	
1.546000	20.1	2000.0	9.000	On	N	19.6	25.9	46.0	
3.502000	22.2	2000.0	9.000	On	N	19.6	23.8	46.0	

A.8. 99% Occupied bandwidth

Method of Measurement: See ANSI C63.10-2013-clause 12.4.2.

- a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.
- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (OBW/RBW)]$ below the reference level. Specific guidance is given in 4.1.5.2.
- d) Step a) through step c) might require iteration to adjust within the specified range.
- e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
- g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.
- h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

Measurement Uncertainty:

Measurement Uncertainty	60.80Hz
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Measurement Result:

Mode	Frequency	99% Occupied bandwidth (MHz)		conclusion
802.11a	5180 MHz	Fig.60	17.31	P
	5200 MHz	Fig.61	17.35	P
	5240 MHz	Fig.62	17.32	P
802.11n HT20	5180 MHz	Fig.63	18.21	P
	5200 MHz	Fig.64	18.10	P
	5240 MHz	Fig.65	18.18	P
802.11n HT40	5190 MHz	Fig.66	36.37	P
	5230 MHz	Fig.67	36.42	P
802.11ac HT80	5210 MHz	Fig.68	75.26	P

Conclusion: PASS

Test graphs as below:



16:07:58 15.03.2023

Fig.60 99% Occupied bandwidth (802.11a, 5180MHz)



16:08:34 15.03.2023

Fig.61 99% Occupied bandwidth (802.11a, 5200MHz)



16:09:07 15.03.2023

Fig.62 99% Occupied bandwidth (802.11a, 5240MHz)



16:15:35 15.03.2023

Fig.63 99% Occupied bandwidth (802.11n-HT20, 5180MHz)



16:16:21 15.03.2023

Fig.64 99% Occupied bandwidth (802.11n-HT20, 5200MHz)



16:17:05 15.03.2023

Fig.65 99% Occupied bandwidth (802.11n-HT20, 5240MHz)



16:25:22 15.03.2023

Fig.66 99% Occupied bandwidth (802.11n-HT40, 5190MHz)



15:17:18 27.03.2023

Fig.67 99% Occupied bandwidth (802.11n-HT40, 5230MHz)



Fig.68 99% Occupied bandwidth (802.11ac-HT80, 5210MHz)

A.9. Power control

A Transmission Power Control mechanism is not required for systems with an e.i.r.p. of less than 27dBm (500 mW).

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 ***