



FCC PART 15E TEST REPORT No.24T04Z102259-003

for

TCL Communication Ltd.

GSM/UMTS/LTE/NR Mobile phone

T702Z

FCC ID:2ACCJH184

with

Hardware Version: 03

Software Version: 9L3N

Issued Date: 2024-11-12

Note:

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

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No.24T04Z102259-003

REPORT HISTORY

Report Number	Revision	Description	Issue Date
24T04Z102259-003	Rev.0	1st edition	2024-11-12

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

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1. Test Laboratory

1.1. Introduction & Accreditation

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

1.2. Testing Location

Conducted testing Location: CTTL(Huayuan North Road)

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

Radiated testing Location: CTTL(huayuan North Road)

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

1.3. Testing Environment

Normal Temperature: 15-35°C

Relative Humidity: 20-75%

1.4. Project date

Testing Start Date: 2024-09-30

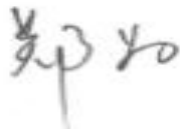
Testing End Date: 2024-11-12

1.5. Signature



Yao Xingyu

(Prepared this test report)



Zheng Wei

(Reviewed this test report)



Pang Shuai

(Approved this test report)

2. Client Information

2.1. Applicant Information

Company Name: TCL Communication Ltd.
Address/Post: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science
Park, Shatin, NT, Hong Kong
City: Hong Kong
Postal Code: /
Country: China
Contact Person: Ting Wang
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Telephone: +86 752 2639091
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2.2. Manufacturer Information

Company Name: TCL Communication Ltd.
Address/Post: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science
Park, Shatin, NT, Hong Kong
City: Hong Kong
Postal Code: /
Country: China
Contact Person: Ting Wang
Contact Email: ting.wang.hz@tcl.com
Telephone: +86 752 2639091
Fax: 0086-755-36612000-81722

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

3.1. About EUT

Description	GSM/UMTS/LTE/NR Mobile phone
Model name	T702Z
FCC ID	2ACCJH184
WLAN Frequency Band	ISM Bands: -5150MHz~5250MHz -5250MHz~5350MHz -5470MHz~5725MHz
Type of modulation	OFDM
Antenna	Integral Antenna
Nominal Voltage	3.85V
Extreme High Voltage	4.4V
Extreme Low Voltage	3.6V

3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version	Date of receipt
UT24a	016605000205391/ 016605000205409	03	9L3N	2024-09-30
UT54a	016605000206191/ 016605000206209	03	9L3N	2024-10-18

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

UT24a is used for Conduction test, UT54a is used for Radiation test.

3.3. Internal Identification of AE used during the test

AE ID*	Description	Model	Manufacturer
AE1	Battery1	TLp049C9(CAC4900033C9)	FENGHUA
AE2	Battery2	TLp049D7(CAC4900007C7)	VEKEN
AE3	Charger1	/	/
AE4	USB Cable1	CDA0000128C1	JUWEI
AE5	USB Cable2	CDA0000128C2	SHENGHUA
AE6	USB Cable3	CDA0000291C1	JUWEI

*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 GSM/UMTS/LTE/NR Mobile phone with integrated antenna and inbuilt battery.

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. 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
26dB Emission Bandwidth	15.403	/	P
Radiated Unwanted Emission	15.407, 15.205, 15.209	/	P
AC Powerline Conducted Emission	15.107, 15.207	/	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 as listed in section 6.1 of this report for the EUT specified in section 3 according to the standards or reference documents listed in section 4.

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

6.3. Test Conditions

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

Temperature	26°C
Voltage	3.85V
Humidity	44%

7. Test Facilities Utilized

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	Vector Signal Analyzer	FSQ40	200089	Rohde & Schwarz	1 year	2025-08-12
2	Vector Signal Analyzer	FSW67	104051	Rohde & Schwarz	1 year	2025-04-01
3	Test Receiver	ESCI 3	100344	R&S	1 year	2025-04-01
4	LISN	ENV216	101200	R&S	1 year	2025-05-16
5	Attenuator	10dB/2W	/	Rosenberger	/	/
6	Shielding Room	S81	/	ETS-Lindgren	/	/

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	Test Receiver	ESW44	103023	Rohde & Schwarz	1 year	2025-07-06
2	EMI Antenna	VULB9163	01222	Schwarzbeck	1 year	2025-08-30
3	EMI Antenna	3115	00167250	ETS-Lindgren	1 year	2025-05-11
4	EMI Antenna	3116	2663	ETS-Lindgren	1 year	2025-03-21

Test Software

Test Item	Test Software and Version	Software Vendor
Radiated Continuous Emission	EMC32 V10.60.20	R&S
Conducted Emission	EMC32 V8.53.0	R&S

8. Measurement Uncertainty

8.1 Transmitter Output Power

Measurement Uncertainty: 0.387dB,k=1.96

8.2 Peak Power Spectral Density

Measurement Uncertainty: 0.705dB,k=1.96

8.3 26dB Emission Bandwidth

Measurement Uncertainty: 60.80Hz,k=1.96

8.4 Band Edges Compliance

Measurement Uncertainty : 0.62dB,k=1.96

8.5 Spurious Emissions

Conducted (k=1.96)

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

8.6 Radiated Unwanted Emission

Frequency Range	Uncertainty(dB) (k=2)
9kHz-30MHz	4.92
$30\text{MHz} \leq f \leq 1\text{GHz}$	4.72
$1\text{GHz} \leq f \leq 18\text{GHz}$	4.84
$18\text{GHz} \leq f \leq 40\text{GHz}$	5.12

8.7 AC Power-line Conducted Emission

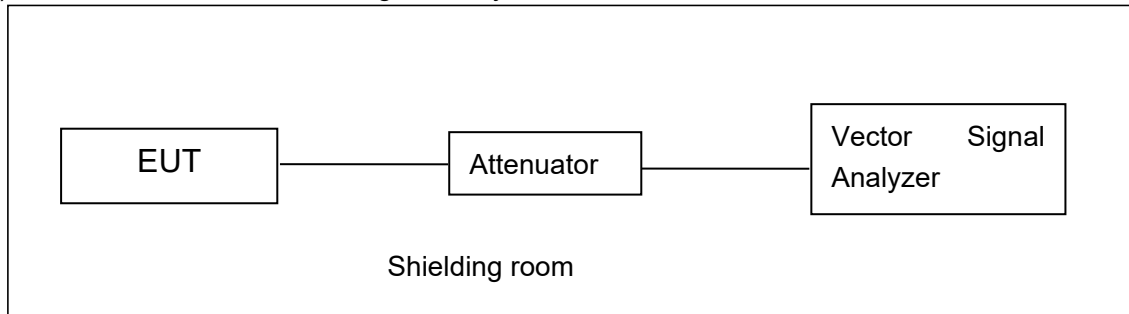
Measurement Uncertainty : 3.08dB,k=2

ANNEX A: Detailed Test 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

Measurement performed according to Clause 6.4, 6.5, 6.6 in ANSI C63.10-2013 and II.G.4, II.G.5, II.G.6 in KDB 789033.

The radiated emission test is performed in semi-anechoic chamber. The EUT was placed on a non-conductive table with 80cm above the ground plane for measurement below 1GHz and 1.5m above the ground plane for measurement above 1GHz. The measurement antenna was placed at a distance of 3 meters from the EUT. 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 from 0° to 360° and the measurement antenna is moved from 1m to 4m to get the maximization result. The maximization process was repeated with the EUT positioned in each of its three orthogonal orientations

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

A.2.1 Antenna Gain

Antenna gain is -1.2dBi and the value is supplied by the applicant or manufacturer.

A.2.2 Maximum output Power-Conducted

EUT ID: UT24a

Measurement Results:

802.11a mode

Mode	Frequency	Test Result (dBm)							
		Data Rate (Mbps)							
		6	9	12	18	24	36	48	54
802.11a	5180MHz	17.94	/	/	/	/	/	/	/
	5200MHz	18.28	/	/	/	/	/	/	/
	5240MHz	18.22	/	/	/	/	/	/	/
	5260MHz	18.19	/	/	/	/	/	/	/
	5280MHz	18.19	/	/	/	/	/	/	/
	5320MHz	18.30	/	/	/	/	/	/	/
	5500MHz	19.32	/	/	/	/	/	/	/
	5580MHz	17.83	/	/	/	/	/	/	/
	5700MHz	18.61	/	/	/	/	/	/	/
	5720MHz	18.20	/	/	/	/	/	/	/

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	17.85	/	/	/	/	/	/	/
	5200MHz	17.95	/	/	/	/	/	/	/
	5240MHz	18.06	/	/	/	/	/	/	/
	5260MHz	18.01	/	/	/	/	/	/	/
	5280MHz	18.10	/	/	/	/	/	/	/
	5320MHz	18.12	/	/	/	/	/	/	/

	5500MHz	19.18	/	/	/	/	/	/	/
	5580MHz	17.79	/	/	/	/	/	/	/
	5700MHz	18.42	/	/	/	/	/	/	/
	5720MHz	18.21	/	/	/	/	/	/	/

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

802.11ac-VHT20 mode

Mode	Frequency	Test Result (dBm)								
		Data Rate								
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8
802.11ac (VHT20)	5180MHz	17.94	/	/	/	/	/	/	/	/
	5200MHz	18.06	/	/	/	/	/	/	/	/
	5240MHz	18.23	/	/	/	/	/	/	/	/
	5260MHz	18.22	/	/	/	/	/	/	/	/
	5280MHz	18.30	/	/	/	/	/	/	/	/
	5320MHz	18.33	/	/	/	/	/	/	/	/
	5500MHz	19.23	/	/	/	/	/	/	/	/
	5580MHz	17.78	/	/	/	/	/	/	/	/
	5700MHz	18.49	/	/	/	/	/	/	/	/
	5720MHz	18.50	/	/	/	/	/	/	/	/

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	16.01	/	/	/	/	/	/	/
	5230MHz	16.04	/	/	/	/	/	/	/
	5270MHz	16.13	/	/	/	/	/	/	/
	5310MHz	16.21	/	/	/	/	/	/	/
	5510MHz	16.97	/	/	/	/	/	/	/
	5550MHz	16.00	/	/	/	/	/	/	/
	5670MHz	16.08	/	/	/	/	/	/	/
	5710MHz	16.15	/	/	/	/	/	/	/

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

802.11ac-VHT40 mode

Mode	Frequency	Test Result (dBm)									
		Data Rate									
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
802.11ac (VHT40)	5190MHz	16.07	/	/	/	/	/	/	/	/	/
	5230MHz	16.32	/	/	/	/	/	/	/	/	/
	5270MHz	16.35	/	/	/	/	/	/	/	/	/
	5310MHz	16.08	/	/	/	/	/	/	/	/	/
	5510MHz	17.26	/	/	/	/	/	/	/	/	/
	5550MHz	16.11	/	/	/	/	/	/	/	/	/
	5670MHz	16.29	/	/	/	/	/	/	/	/	/
	5710MHz	16.18	/	/	/	/	/	/	/	/	/

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

802.11ac-VHT80 mode

Mode	Frequency	Test Result (dBm)									
		Data Rate									
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
802.11ac (VHT80)	5210MHz	15.52	/	/	/	/	/	/	/	/	/
	5290MHz	16.00	/	/	/	/	/	/	/	/	/
	5530MHz	16.60	/	/	/	/	/	/	/	/	/
	5610MHz	15.15	/	/	/	/	/	/	/	/	/
	5690MHz	15.60	/	/	/	/	/	/	/	/	/

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%



17:56:36 12.11.2024

Maximum output Power: 11a CH100

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

EUT ID: UT24a

Measurement Results:

TestMode	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	5180	7.57	≤11.00	PASS
	5200	8.03	≤11.00	PASS
	5240	8.01	≤11.00	PASS
	5260	7.78	≤11.00	PASS
	5280	8.19	≤11.00	PASS
	5320	8.00	≤11.00	PASS
	5500	9.00	≤11.00	PASS
	5580	7.45	≤11.00	PASS
	5700	8.32	≤11.00	PASS
	5720	8.05	≤11.00	PASS
11AC20SISO	5180	7.41	≤11.00	PASS
	5200	7.94	≤11.00	PASS
	5240	7.86	≤11.00	PASS
	5260	7.78	≤11.00	PASS
	5280	7.96	≤11.00	PASS
	5320	7.96	≤11.00	PASS
	5500	9.06	≤11.00	PASS
	5580	7.57	≤11.00	PASS
	5700	8.33	≤11.00	PASS
	5720	8.14	≤11.00	PASS
11AC40SISO	5190	3.04	≤11.00	PASS
	5230	3.25	≤11.00	PASS
	5270	3.12	≤11.00	PASS
	5310	2.74	≤11.00	PASS
	5510	4.25	≤11.00	PASS
	5550	2.90	≤11.00	PASS
	5670	3.16	≤11.00	PASS
	5710	3.29	≤11.00	PASS
11AC80SISO	5210	-0.99	≤11.00	PASS
	5290	-0.47	≤11.00	PASS
	5530	0.06	≤11.00	PASS

	5610	-1.11	≤ 11.00	PASS
	5690	-0.62	≤ 11.00	PASS



Peak Power Spectral Density:11ac20 CH100

Conclusion: PASS

A.4. 26dB Emission 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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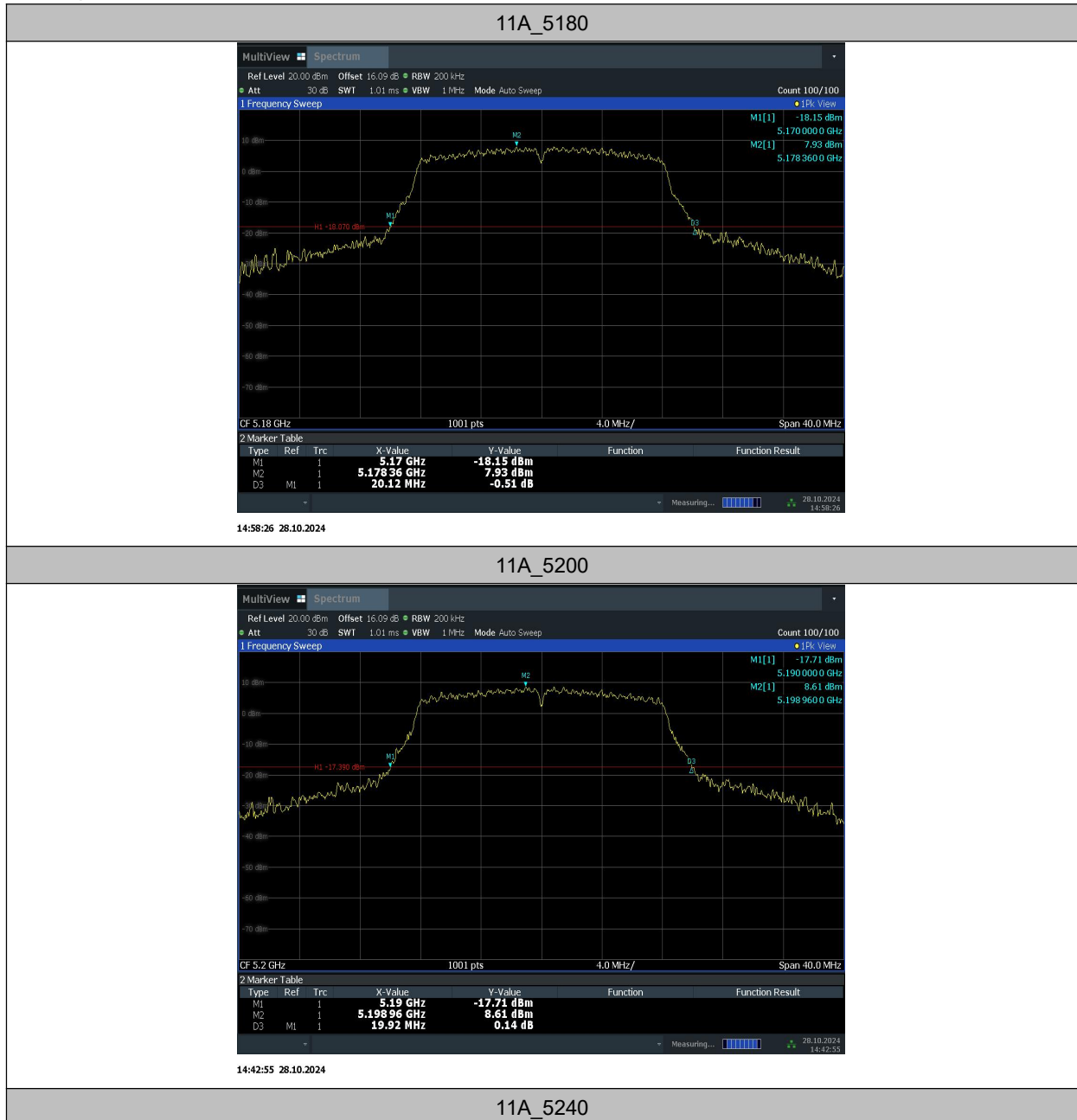
EUT ID: UT24a

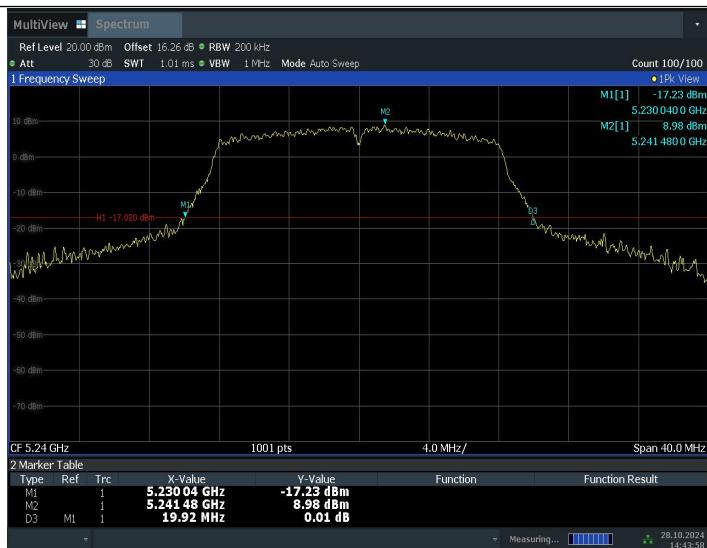
Measurement Result:

TestMode	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	5180	20.12	5170.00	5190.12	---	---
	5200	19.92	5190.00	5209.92	---	---
	5240	19.92	5230.04	5249.96	---	---
	5260	20.00	5249.96	5269.96	---	---
	5280	20.08	5270.04	5290.12	---	---
	5320	19.96	5310.00	5329.96	---	---
	5500	24.28	5488.16	5512.44	---	---
	5580	21.20	5568.88	5590.08	---	---
	5700	25.36	5688.08	5713.44	---	---
	5720	25.40	5707.00	5732.40	---	---
11AC20SISO	5180	20.60	5169.72	5190.32	---	---
	5200	20.28	5189.80	5210.08	---	---
	5240	20.44	5229.80	5250.24	---	---
	5260	20.44	5249.76	5270.20	---	---
	5280	20.44	5269.84	5290.28	---	---
	5320	20.36	5309.80	5330.16	---	---
	5500	24.40	5487.28	5511.68	---	---
	5580	20.60	5569.56	5590.16	---	---
	5700	27.08	5686.64	5713.72	---	---
	5720	25.40	5706.36	5731.76	---	---
11AC40SISO	5190	41.20	5169.44	5210.64	---	---
	5230	40.88	5209.52	5250.40	---	---
	5270	40.88	5249.60	5290.48	---	---
	5310	41.04	5289.28	5330.32	---	---
	5510	40.80	5489.52	5530.32	---	---
	5550	40.88	5529.60	5570.48	---	---
	5670	40.96	5649.60	5690.56	---	---
	5710	40.96	5689.52	5730.48	---	---
11AC80SISO	5210	81.60	5169.36	5250.96	---	---
	5290	81.60	5249.04	5330.64	---	---

	5530	81.60	5489.20	5570.80	---	---
	5610	81.28	5569.36	5650.64	---	---
	5690	81.44	5649.20	5730.64	---	---

Test graphs as below:





14:43:59 28.10.2024

11A_5260



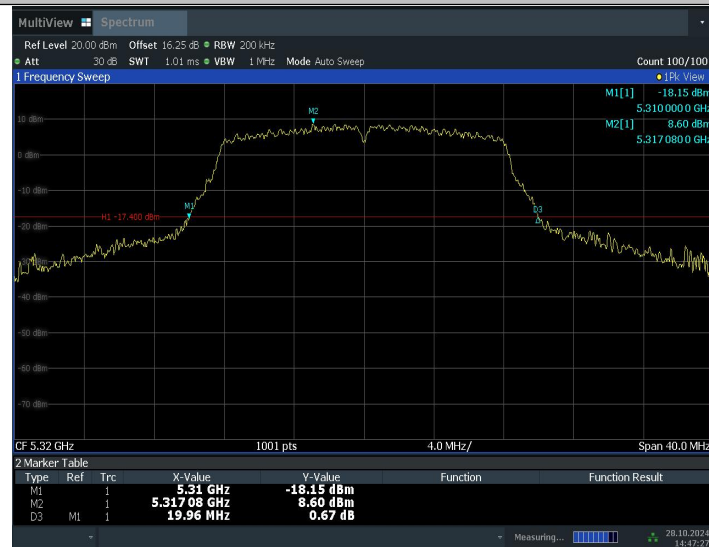
14:59:28 28.10.2024

11A_5280



14:46:18 28.10.2024

11A_5320



14:47:27 28.10.2024

11A_5500



14:48:40 28.10.2024

11A_5580



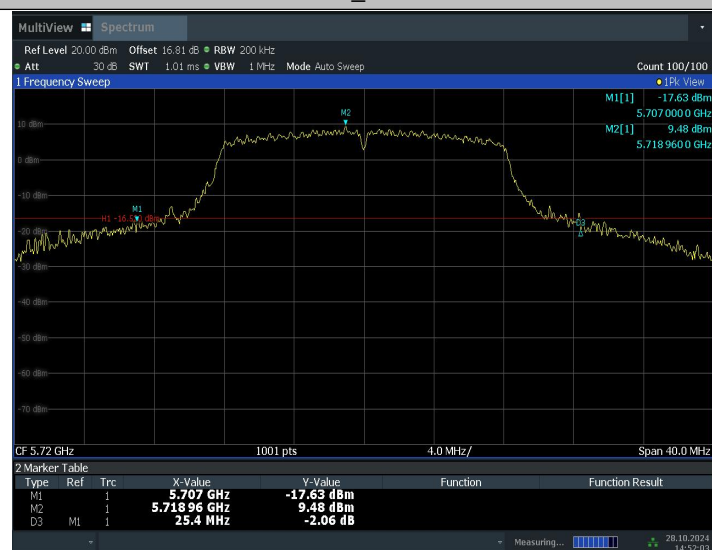
15:00:31 28.10.2024

11A_5700



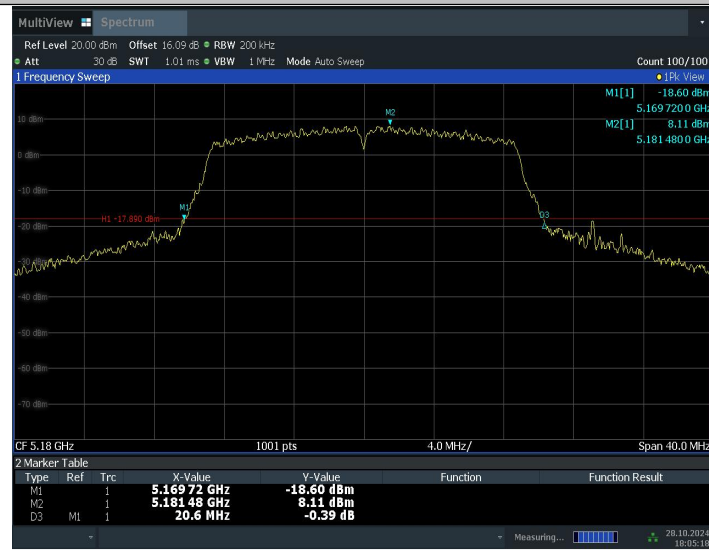
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11A_5720



14:52:04 28.10.2024

11AC20SISO_5180



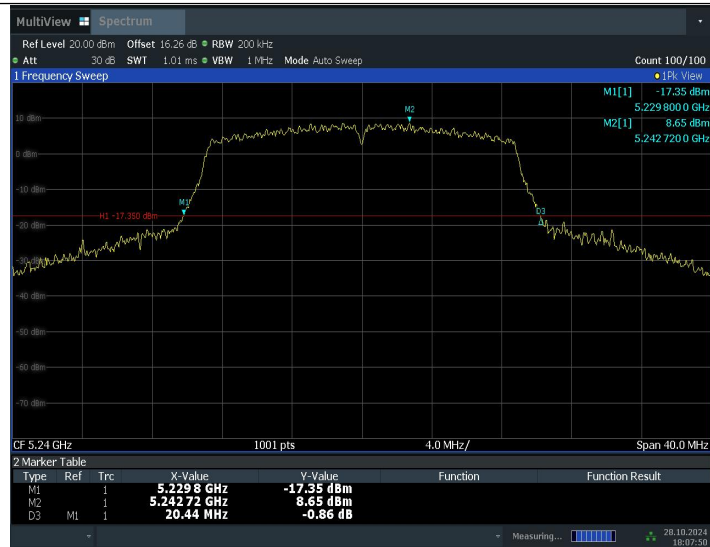
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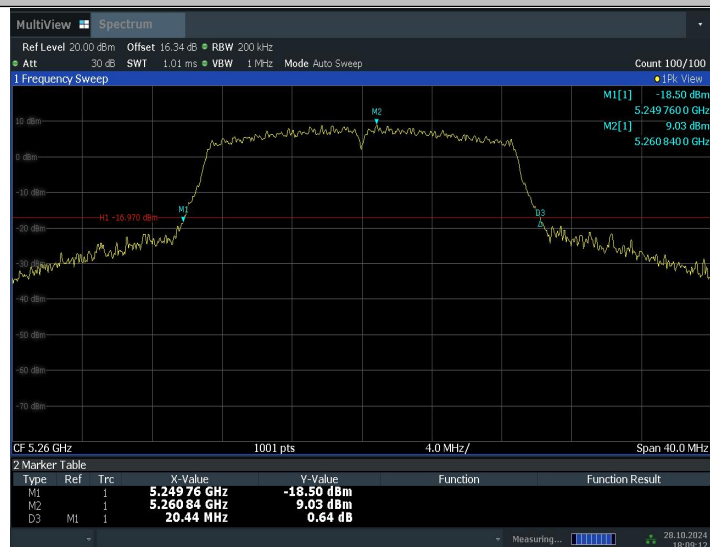
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11AC20SISO_5240



18:07:51 28.10.2024

11AC20SISO_5260



18:09:13 28.10.2024

11AC20SISO_5280



18:10:16 28.10.2024

11AC20SISO_5320



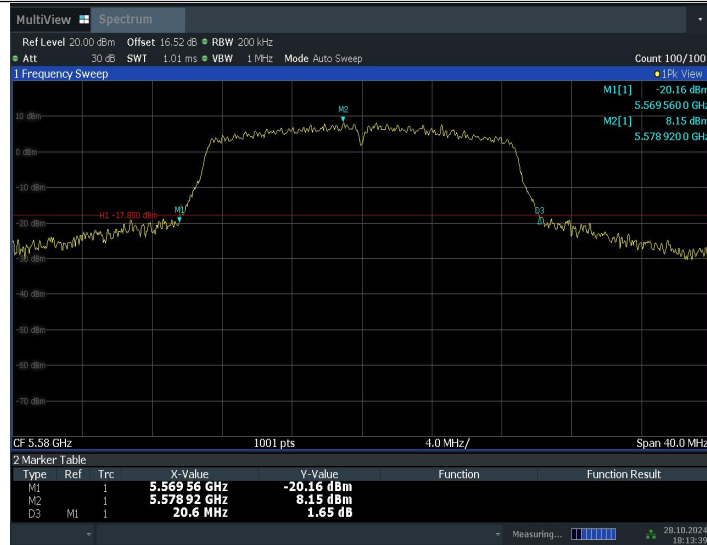
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11AC20SISO_5500



18:12:35 28.10.2024

11AC20SISO_5580



18:13:40 28.10.2024

11AC20SISO_5700



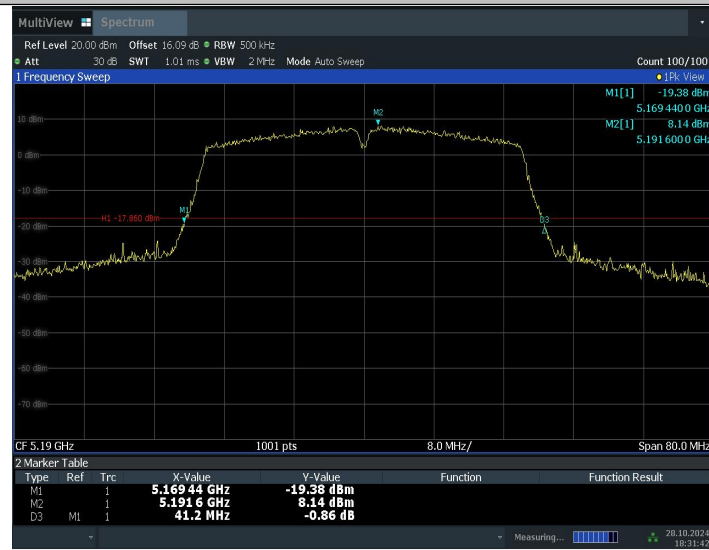
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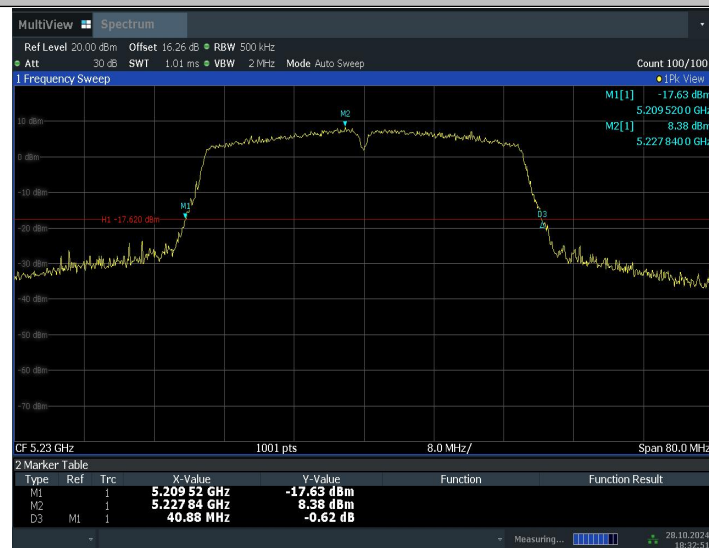
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11AC40SISO_5190



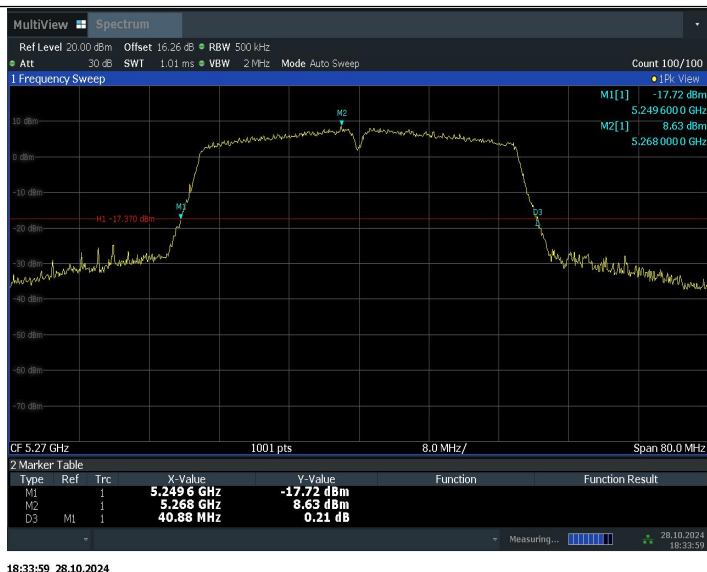
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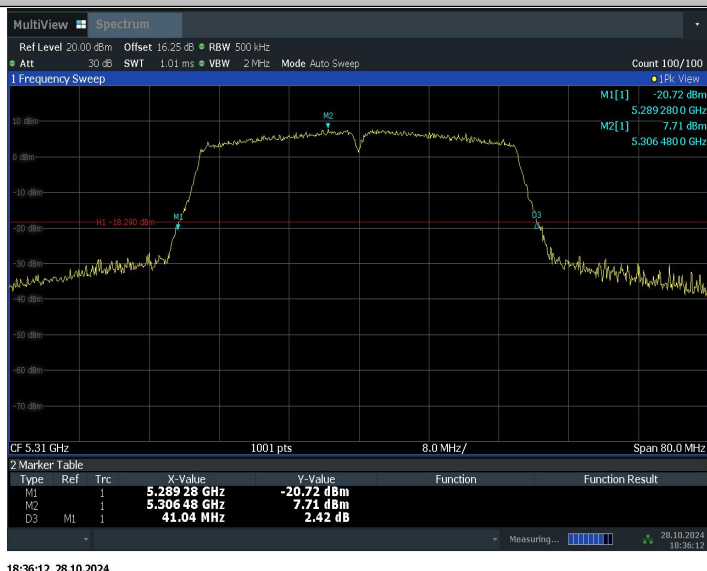
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11AC40SISO_5270



18:33:59 28.10.2024

11AC40SISO_5310



18:36:12 28.10.2024

11AC40SISO_5510



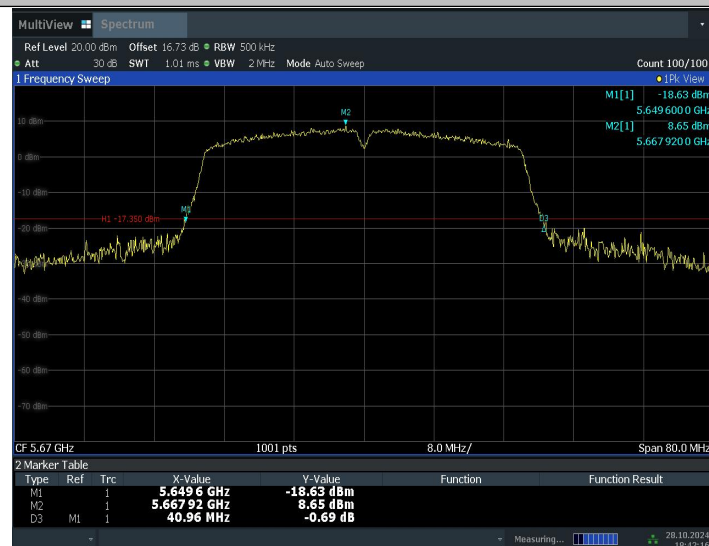
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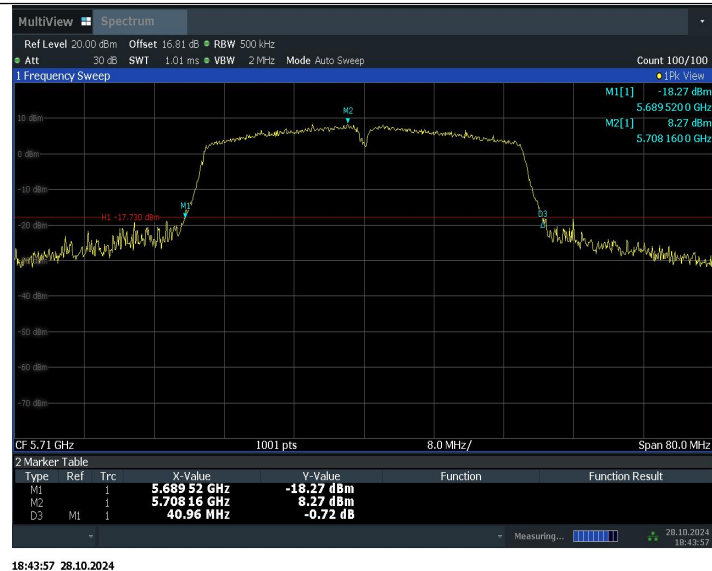
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11AC40SISO_5670



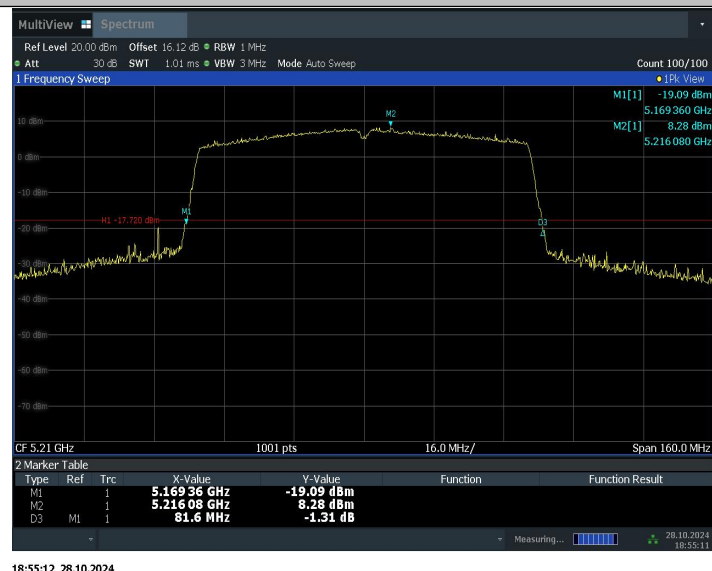
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11AC40SISO_5710



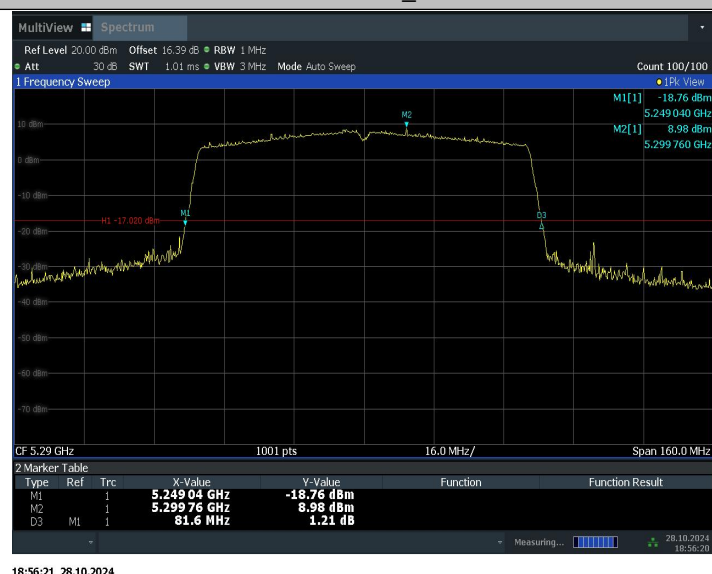
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11AC80SISO_5210



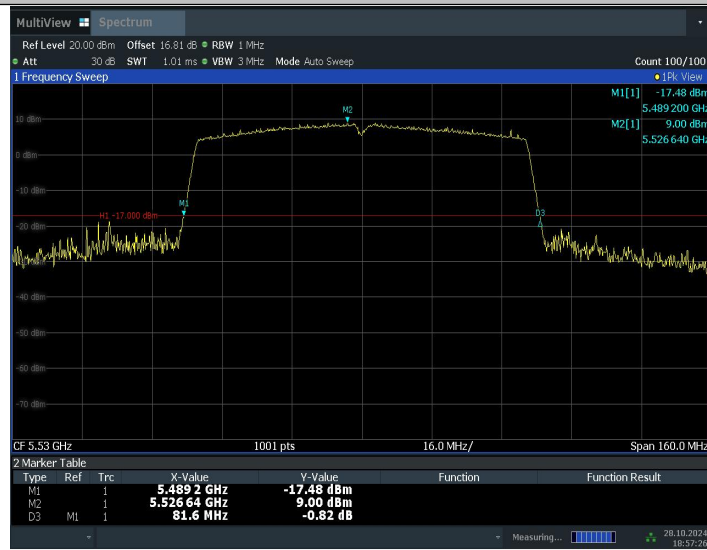
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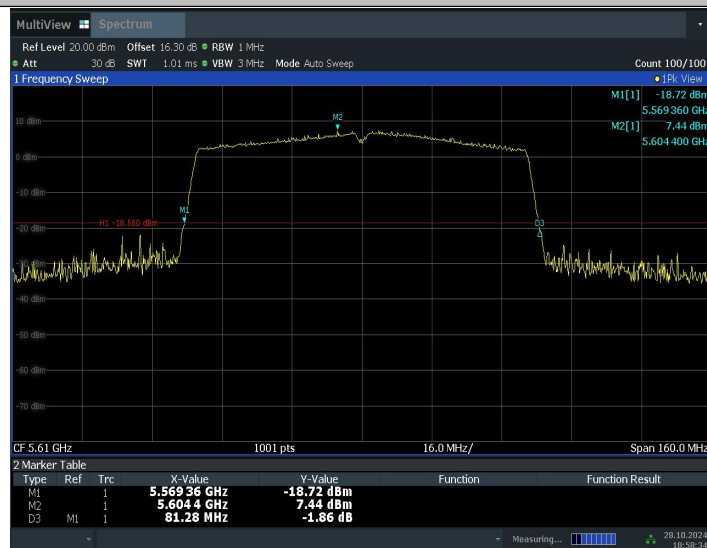
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11AC80SISO_5530



18:57:27 28.10.2024

11AC80SISO_5610



18:58:34 28.10.2024

11AC80SISO_5690



Conclusion: PASS

A.5. Radiated Unwanted Emission

A.5.1 Limits

Unwanted Emissions in the unrestricted bands shall not exceed the limits that shown in 15.407:

Standard	Limit
FCC 47 CFR Part 15.407	(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -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))

Frequency (MHz)	Field strength(μ V/m)	Measurement distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30

Frequency of emission (MHz)	Field strength (μ V/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

Note: When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor (as defined in KDB 789033 II.G.2.d).

A.5.2 Test setup

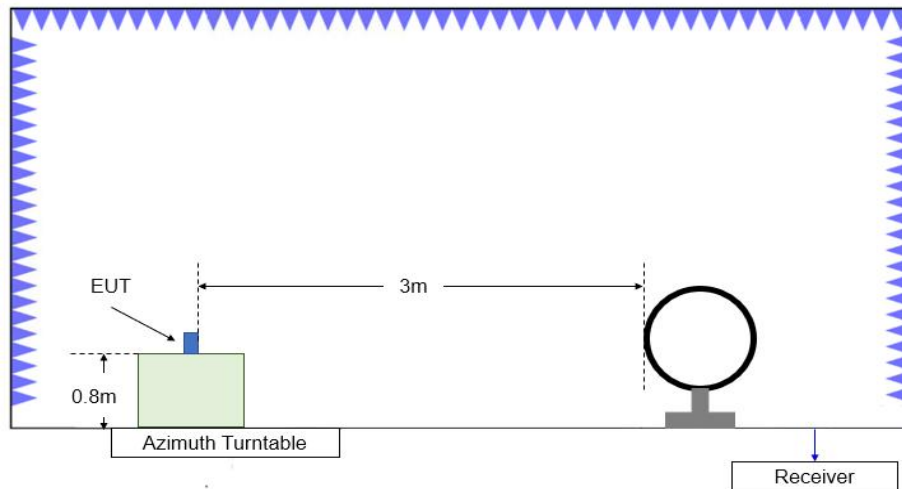


Figure A.5.1. Test Site Diagram (9kHz-30MHz)

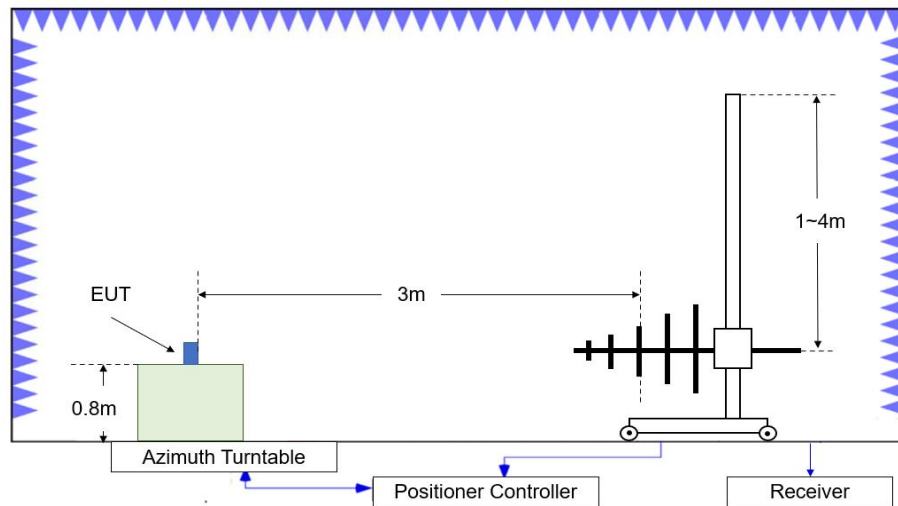


Figure A.5.2. Test Site Diagram (30MHz-1GHz)

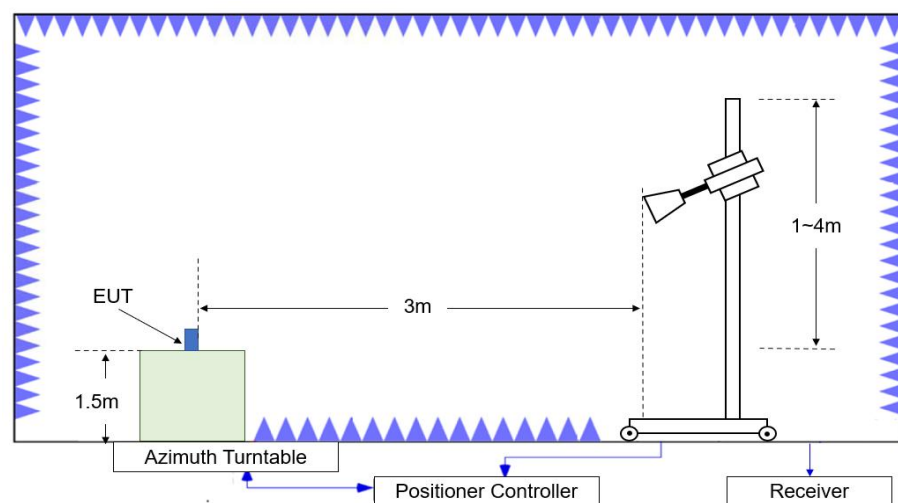


Figure A.5.3. Test Site Diagram (1GHz-40GHz)

A.5.3 Test Procedures

Radiated unwanted emissions from the EUT were measured according to ANSI C63.10 and KDB 789033 D02 v02r01.

Test setting

Frequency of emission (MHz)	RBW/VBW
30-1000	100kHz/300kHz
1000-4000	1MHz/3MHz
4000-18000	1MHz/3MHz
18000-26500	1MHz/3MHz
26500-40000	1MHz/3MHz

A.5.4 Calculation

1. The measurement results reported below is calculated by:

Measurement Results (dB μ V/m) = $P_{\text{measurement}}$ (dB μ V) + Cable Loss(dB) + Antenna Factor (dB/m)

Where: $P_{\text{measurement}}$ is the field strength recorded from the instrument

2. Convert the resultant EIRP level to an equivalent electric field strength using the following relationship:

$$E = \text{EIRP} - 20 \log(D) + 104.77$$

Where:

E is the field strength in dB μ V/m

D is the measurement distance in meters

EIRP is the equivalent isotropically radiated power in dBm

Test note

1. The EUT is operating at its maximum duty cycle and its maximum power control level.
2. Investigation has been done on all modes and modulations/data rates. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.
3. Spurious emissions for all channels were investigated and almost the same below 1GHz. According to FCC 47 CFR §15.31, emission levels are not report much lower than the limit by over 20dB
4. The test is carried out on both vertical and horizontal polarization and only maximization result of both polarizations is kept.
5. EUT in each of three orthogonal axis emissions had been tested out only the worst case (axis data) recorded in the report.
6. Measurement frequencies were performed from 9 kHz to the 10th harmonic of highest fundamental frequency or 40GHz, whichever is lower.
7. No spurious emissions were detected within 20dB of the limit below 30MHz. OFS and semi-chamber comparison testing had been performed and the result came out very similar. (KDB 414788)

Measurement Results:
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)
17921.350	45.39	-25.55	42.30	28.64	54.00	8.61	V
17914.200	45.36	-25.55	42.30	28.61	54.00	8.64	H
13288.700	39.36	-29.75	40.30	28.81	54.00	14.64	V
13373.400	39.20	-30.08	40.50	28.78	54.00	14.80	H
5149.780	43.03	-27.27	32.70	37.60	54.00	10.97	H
5142.940	42.63	-27.34	32.70	37.27	54.00	11.37	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)
17932.350	45.24	-26.18	45.95	25.47	54.00	8.76	V
17935.100	45.19	-26.18	45.95	25.42	54.00	8.81	H
13279.900	39.31	-30.02	40.60	28.73	54.00	14.69	V
13272.200	39.06	-30.02	40.60	28.48	54.00	14.94	V
5350.816	43.17	-27.12	34.20	36.09	54.00	10.83	H
5370.832	43.03	-27.12	34.20	35.95	54.00	10.97	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)
17927.400	45.30	-26.18	45.95	25.53	54.00	8.70	V
17899.350	45.28	-26.18	45.95	25.51	54.00	8.72	V
13303.550	39.01	-30.02	40.60	28.43	54.00	14.99	H
14499.250	38.93	-28.77	41.90	25.80	54.00	15.07	H
5436.130	43.40	-27.13	34.30	36.23	54.00	10.60	H
5458.480	43.29	-27.10	34.20	36.19	54.00	10.71	H

802.11n-HT20

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)
17926.850	45.11	-26.18	45.95	25.34	54.00	8.89	V
17918.600	45.10	-26.18	45.95	25.33	54.00	8.90	H
14495.950	39.42	-28.77	41.90	26.29	54.00	14.58	V
13281.550	39.07	-30.02	40.60	28.49	54.00	14.93	V
5146.840	43.52	-27.29	34.00	36.81	54.00	10.48	H
5143.740	43.23	-27.29	34.00	36.52	54.00	10.77	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)
17923.000	44.95	-26.18	45.95	25.18	54.00	9.05	V
17915.300	44.93	-26.18	45.95	25.16	54.00	9.07	H
13285.400	38.98	-30.02	40.60	28.40	54.00	15.02	V
13268.900	38.94	-30.02	40.60	28.36	54.00	15.06	H
5357.312	43.79	-27.12	34.20	36.71	54.00	10.21	H
5380.880	43.59	-27.12	34.20	36.51	54.00	10.41	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)
17923.550	45.16	-26.18	45.95	25.39	54.00	8.84	H
17914.200	45.09	-26.18	45.95	25.32	54.00	8.91	H
13282.100	39.13	-30.02	40.60	28.55	54.00	14.87	V
14488.250	39.03	-28.77	41.90	25.90	54.00	14.97	H
5459.020	43.29	-27.10	34.20	36.19	54.00	10.71	H
5455.750	43.16	-27.10	34.20	36.06	54.00	10.84	H

802.11n-HT40

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)
17923.550	45.12	-26.18	45.95	25.35	54.00	8.88	V
17919.700	45.09	-26.18	45.95	25.32	54.00	8.91	V
14498.150	39.03	-28.77	41.90	25.90	54.00	14.97	V
14489.350	39.01	-28.77	41.90	25.88	54.00	14.99	V
5149.560	44.34	-27.28	34.00	37.62	54.00	9.66	H
5148.700	44.29	-27.28	34.00	37.57	54.00	9.71	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)
17917.500	45.47	-26.18	45.95	25.70	54.00	8.53	V
17939.500	45.06	-26.18	45.95	25.29	54.00	8.94	H
14499.800	38.97	-28.77	41.90	25.84	54.00	15.03	H
13259.000	38.88	-29.90	40.50	28.28	54.00	15.12	V
5350.384	42.90	-27.12	34.20	35.82	54.00	11.10	H
5351.040	42.86	-27.12	34.20	35.78	54.00	11.14	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)
17929.050	45.09	-26.18	45.95	25.32	54.00	8.91	V
17920.800	44.98	-26.18	45.95	25.21	54.00	9.02	H
14484.400	38.94	-28.77	41.90	25.81	54.00	15.06	H
14488.250	38.85	-28.77	41.90	25.72	54.00	15.15	V
5453.770	42.76	-27.10	34.20	35.66	54.00	11.24	H
5455.420	42.66	-27.10	34.20	35.56	54.00	11.34	H

802.11ac-HT20

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)
17931.800	45.17	-26.18	45.95	25.40	54.00	8.83	V
17946.650	45.01	-26.18	45.95	25.24	54.00	8.99	V
14497.050	38.98	-28.77	41.90	25.85	54.00	15.02	V
13256.800	38.86	-29.90	40.50	28.26	54.00	15.14	H
5147.840	43.14	-27.29	34.00	36.43	54.00	10.86	H
5145.020	42.86	-27.29	34.00	36.15	54.00	11.14	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)
17914.200	45.22	-26.18	45.95	25.45	54.00	8.78	V
17922.450	44.97	-26.18	45.95	25.20	54.00	9.03	V
13259.550	39.15	-29.90	40.50	28.55	54.00	14.85	H
14498.150	39.01	-28.77	41.90	25.88	54.00	14.99	V
5355.744	43.34	-27.12	34.20	36.26	54.00	10.66	H
5363.344	43.34	-27.12	34.20	36.26	54.00	10.66	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)
17902.650	45.30	-26.18	45.95	25.53	54.00	8.70	H
17917.500	44.96	-26.18	45.95	25.19	54.00	9.04	V
14498.150	38.95	-28.77	41.90	25.82	54.00	15.05	V
14493.200	38.91	-28.77	41.90	25.78	54.00	15.09	H
5454.490	43.25	-27.10	34.20	36.15	54.00	10.75	H
5459.245	43.20	-27.10	34.20	36.10	54.00	10.80	H

802.11ac-HT40

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)
17913.100	45.03	-26.18	45.95	25.26	54.00	8.97	V
17926.300	45.02	-26.18	45.95	25.25	54.00	8.98	V
14491.550	39.07	-28.77	41.90	25.94	54.00	14.93	V
14487.150	38.97	-28.77	41.90	25.84	54.00	15.03	H
5149.000	45.03	-27.28	34.00	38.31	54.00	8.97	H
5149.660	44.60	-27.28	34.00	37.88	54.00	9.40	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)
17941.150	45.14	-26.18	45.95	25.37	54.00	8.86	V
17909.800	44.96	-26.18	45.95	25.19	54.00	9.04	V
14488.250	38.99	-28.77	41.90	25.86	54.00	15.01	V
13284.850	38.97	-30.02	40.60	28.39	54.00	15.03	V
5408.528	42.83	-27.13	34.30	35.66	54.00	11.17	H
5379.856	42.78	-27.12	34.20	35.70	54.00	11.22	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)
17909.550	44.04	-26.18	45.95	24.27	54.00	9.96	V
17959.500	43.86	-26.18	45.95	24.09	54.00	10.14	V
14499.000	43.22	-28.77	41.90	30.09	54.00	10.78	V
14491.800	43.14	-28.77	41.90	30.01	54.00	10.86	V
5459.995	42.86	-27.10	34.20	35.76	54.00	11.14	H
5458.135	42.44	-27.10	34.20	35.34	54.00	11.56	H

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)
17922.450	44.94	-26.18	45.95	25.17	54.00	9.06	V
17926.300	44.92	-26.18	45.95	25.15	54.00	9.08	H
14499.250	39.06	-28.77	41.90	25.93	54.00	14.94	V
14483.850	38.93	-28.77	41.90	25.80	54.00	15.07	H
5149.860	47.40	-27.28	34.00	40.68	54.00	6.60	H
5149.140	47.20	-27.28	34.00	40.48	54.00	6.80	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)
17934.550	45.21	-26.18	45.95	25.44	54.00	8.79	V
17921.350	44.99	-26.18	45.95	25.22	54.00	9.01	V
14497.600	39.03	-28.77	41.90	25.90	54.00	14.97	V
13345.350	39.02	-30.06	40.65	28.43	54.00	14.98	V
5350.304	44.71	-27.12	34.20	37.63	54.00	9.29	H
5350.064	44.28	-27.12	34.20	37.20	54.00	9.72	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)
17915.300	45.67	-26.18	45.95	25.90	54.00	8.33	V
17921.350	45.27	-26.18	45.95	25.50	54.00	8.73	V
14498.150	38.99	-28.77	41.90	25.86	54.00	15.01	V
14493.750	38.94	-28.77	41.90	25.81	54.00	15.06	H
5458.465	45.12	-27.10	34.20	38.02	54.00	8.88	H
5458.045	45.06	-27.10	34.20	37.96	54.00	8.94	H

PEAK 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)
17910.350	57.04	-25.55	42.30	40.29	74.00	16.96	V
17846.000	56.85	-25.55	42.30	40.10	74.00	17.15	H
14402.450	51.95	-28.97	40.20	40.72	68.20	16.25	H
13802.950	51.64	-29.41	40.90	40.15	68.20	16.56	V
5133.560	54.61	-27.34	32.70	49.25	74.00	19.39	H
5140.140	53.69	-27.34	32.70	48.33	74.00	20.31	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)
17934.550	56.71	-26.18	45.95	36.94	74.00	17.29	V
17843.800	56.21	-26.18	45.95	36.44	74.00	17.79	V
13714.400	51.91	-29.40	41.10	40.21	68.20	16.29	V
14075.750	51.65	-28.90	41.70	38.85	68.20	16.55	H
5414.896	54.04	-27.13	34.30	46.87	74.00	19.96	H
5395.088	54.03	-27.12	34.20	46.95	74.00	19.97	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)
17942.250	56.12	-26.18	45.95	36.35	74.00	17.88	H
17930.150	55.84	-26.18	45.95	36.07	74.00	18.16	V
13845.300	51.81	-29.34	41.25	39.90	68.20	16.39	H
13731.450	51.68	-29.40	41.10	39.98	68.20	16.52	V
5437.600	54.18	-27.13	34.30	47.01	74.00	19.82	H
5468.800	57.16	-27.10	34.20	50.06	68.20	11.04	H

802.11n-HT20
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)
17894.400	56.44	-26.18	45.95	36.67	74.00	17.56	V
17916.950	56.13	-26.18	45.95	36.36	74.00	17.87	V
14098.300	52.04	-28.90	41.70	39.24	68.20	16.16	H
14109.850	51.88	-28.86	41.70	39.04	68.20	16.32	H
5145.920	55.68	-27.29	34.00	48.97	74.00	18.32	H
5147.020	54.93	-27.29	34.00	48.22	74.00	19.07	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)
17951.600	56.02	-26.18	45.95	36.25	74.00	17.98	V
17898.250	55.84	-26.18	45.95	36.07	74.00	18.16	V
13702.300	51.67	-29.51	41.00	40.18	68.20	16.53	V
14042.750	51.56	-28.94	41.60	38.90	68.20	16.64	V
5354.272	55.56	-27.12	34.20	48.48	74.00	18.44	H
5352.576	55.25	-27.12	34.20	48.17	74.00	18.75	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)
17922.450	55.93	-26.18	45.95	36.16	74.00	18.07	H
17919.150	55.92	-26.18	45.95	36.15	74.00	18.08	H
14084.000	52.09	-28.90	41.70	39.29	68.20	16.11	V
13708.350	51.83	-29.51	41.00	40.34	68.20	16.37	V
5457.985	54.95	-27.10	34.20	47.85	74.00	19.05	H
5469.850	62.31	-27.10	34.20	55.21	68.20	5.89	H

802.11n-HT40
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)
17825.650	55.92	-26.18	45.95	36.15	74.00	18.08	H
17944.450	55.89	-26.18	45.95	36.12	74.00	18.11	H
14126.900	51.45	-28.86	41.70	38.61	68.20	16.75	V
13721.000	51.44	-29.40	41.10	39.74	68.20	16.76	H
5145.640	59.48	-27.29	34.00	52.77	74.00	14.52	H
5149.920	57.21	-27.28	34.00	50.49	74.00	16.79	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)
17921.350	56.22	-26.18	45.95	36.45	74.00	17.78	H
17916.950	55.96	-26.18	45.95	36.19	74.00	18.04	H
14125.800	51.61	-28.86	41.70	38.77	68.20	16.59	H
13773.800	51.27	-29.37	41.20	39.44	68.20	16.93	H
5350.080	58.28	-27.12	34.20	51.20	74.00	15.72	H
5350.160	58.22	-27.12	34.20	51.14	74.00	15.78	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)
17924.650	56.46	-26.18	45.95	36.69	74.00	17.54	H
17945.000	56.02	-26.18	45.95	36.25	74.00	17.98	V
13757.300	51.88	-29.40	41.10	40.18	68.20	16.32	V
14068.050	51.55	-28.90	41.70	38.75	68.20	16.65	V
5457.670	58.94	-27.10	34.20	51.84	74.00	15.06	H
5469.760	61.55	-27.10	34.20	54.45	68.20	6.65	H

802.11ac-HT20

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)
17920.800	56.33	-26.18	45.95	36.56	74.00	17.67	V
17989.550	56.02	-26.18	45.95	36.25	74.00	17.98	V
13779.300	51.78	-29.37	41.20	39.95	68.20	16.42	V
13801.850	51.50	-29.37	41.20	39.67	68.20	16.70	V
5132.020	53.49	-27.29	34.00	46.78	74.00	20.51	H
5147.440	53.44	-27.29	34.00	46.73	74.00	20.56	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)
17927.400	56.10	-26.18	45.95	36.33	74.00	17.90	H
17920.800	55.79	-26.18	45.95	36.02	74.00	18.21	H
13727.600	51.65	-29.40	41.10	39.95	68.20	16.55	V
13699.550	51.55	-29.51	41.00	40.06	68.20	16.65	V
5373.152	54.94	-27.12	34.20	47.86	74.00	19.06	H
5350.976	54.76	-27.12	34.20	47.68	74.00	19.24	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)
17911.450	57.40	-26.18	45.95	37.63	74.00	16.60	H
17932.900	56.52	-26.18	45.95	36.75	74.00	17.48	H
13728.700	51.98	-29.40	41.10	40.28	68.20	16.22	H
13680.300	51.73	-29.51	41.00	40.24	68.20	16.47	V
5430.085	54.94	-27.13	34.30	47.77	74.00	19.06	H
5467.765	57.23	-27.10	34.20	50.13	68.20	10.97	H

802.11ac-HT40
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)
17922.450	56.24	-26.18	45.95	36.47	74.00	17.76	V
17924.100	55.68	-26.18	45.95	35.91	74.00	18.32	H
13686.900	52.33	-29.51	41.00	40.84	68.20	15.87	H
14109.300	51.54	-28.86	41.70	38.70	68.20	16.66	V
5149.000	60.33	-27.28	34.00	53.61	74.00	13.67	H
5148.880	58.10	-27.28	34.00	51.38	74.00	15.90	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)
17937.850	56.03	-26.18	45.95	36.26	74.00	17.97	V
17931.800	55.72	-26.18	45.95	35.95	74.00	18.28	V
13688.000	51.77	-29.51	41.00	40.28	68.20	16.43	H
14115.900	51.68	-28.86	41.70	38.84	68.20	16.52	H
5353.056	55.92	-27.12	34.20	48.84	74.00	18.08	H
5408.144	53.74	-27.13	34.30	46.57	74.00	20.26	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)
14693.400	55.34	-28.53	41.50	42.37	68.20	12.86	H
14587.200	55.01	-28.73	41.90	41.84	68.20	13.19	V
17914.500	54.85	-26.18	45.95	35.08	74.00	19.15	V
17985.150	54.80	-26.18	45.95	35.03	74.00	19.20	H
5448.355	54.58	-27.10	34.20	47.48	74.00	19.42	H
5469.880	58.91	-27.10	34.20	51.81	68.20	9.29	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)
17935.100	56.12	-26.18	45.95	36.35	74.00	17.88	H
17930.150	55.62	-26.18	45.95	35.85	74.00	18.38	H
14097.750	51.79	-28.90	41.70	38.99	68.20	16.41	V
13741.350	51.72	-29.40	41.10	40.02	68.20	16.48	H
5147.600	59.76	-27.29	34.00	53.05	74.00	14.24	H
5148.720	59.48	-27.28	34.00	52.76	74.00	14.52	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)
17923.000	55.92	-26.18	45.95	36.15	74.00	18.08	H
17925.750	55.78	-26.18	45.95	36.01	74.00	18.22	H
13630.800	51.24	-29.68	40.90	40.02	68.20	16.96	V
14630.150	51.23	-28.63	41.70	38.16	68.20	16.97	H
5350.016	55.29	-27.12	34.20	48.21	74.00	18.71	V
5350.224	54.32	-27.12	34.20	47.24	74.00	19.68	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)
17921.900	56.37	-26.18	45.95	36.60	74.00	17.63	V
17922.450	56.00	-26.18	45.95	36.23	74.00	18.00	H
13594.500	51.47	-29.86	40.80	40.53	68.20	16.73	H
13685.800	51.38	-29.51	41.00	39.89	68.20	16.82	V
5455.750	61.26	-27.10	34.20	54.16	74.00	12.74	H
5466.520	59.97	-27.10	34.20	52.87	68.20	8.23	V

Conclusion: PASS

Band edge compliance

Mode	Channel	Test Results	Conclusion
802.11a	5180 MHz	Fig.1	P
	5320 MHz	Fig.2	P
	5500 MHz	Fig.3	P
	5700 MHz	Fig.4	P
802.11n HT20	5180 MHz	Fig.5	P
	5320 MHz	Fig.6	P
	5500 MHz	Fig.7	P
	5700 MHz	Fig.8	P
802.11n HT40	5190 MHz	Fig.9	P
	5310 MHz	Fig.10	P
	5510 MHz	Fig.11	P
	5670 MHz	Fig.12	P
802.11ac HT20	5180 MHz	Fig.13	P
	5320 MHz	Fig.14	P
	5500 MHz	Fig.15	P
	5700 MHz	Fig.16	P
802.11ac HT40	5190 MHz	Fig.17	P
	5310 MHz	Fig.18	P
	5510 MHz	Fig.19	P
	5670 MHz	Fig.20	P
802.11ac HT80	5210MHz	Fig.21	P
	5290MHz	Fig.22	P
	5530MHz	Fig.23	P
	5610MHz	Fig.24	P

Conclusion: PASS

Test graphs as below:

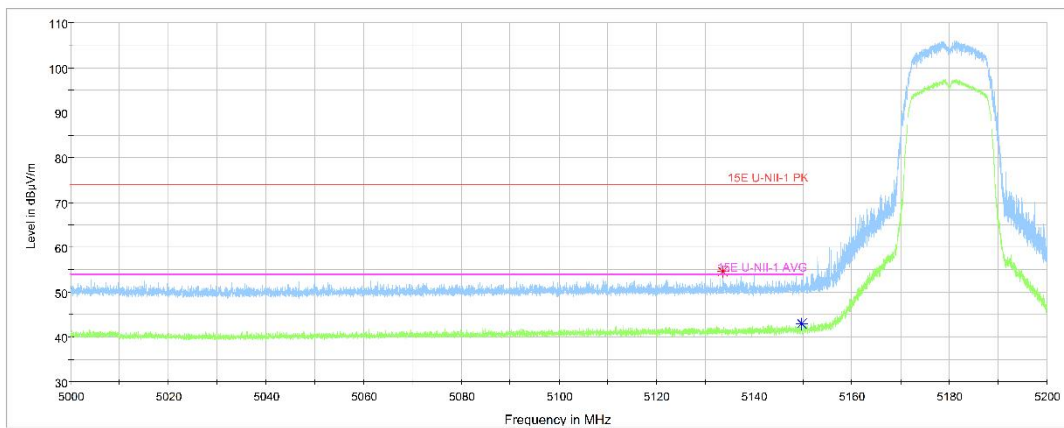


Fig. 1 Band Edges (802.11a Ch36, 5180MHz)

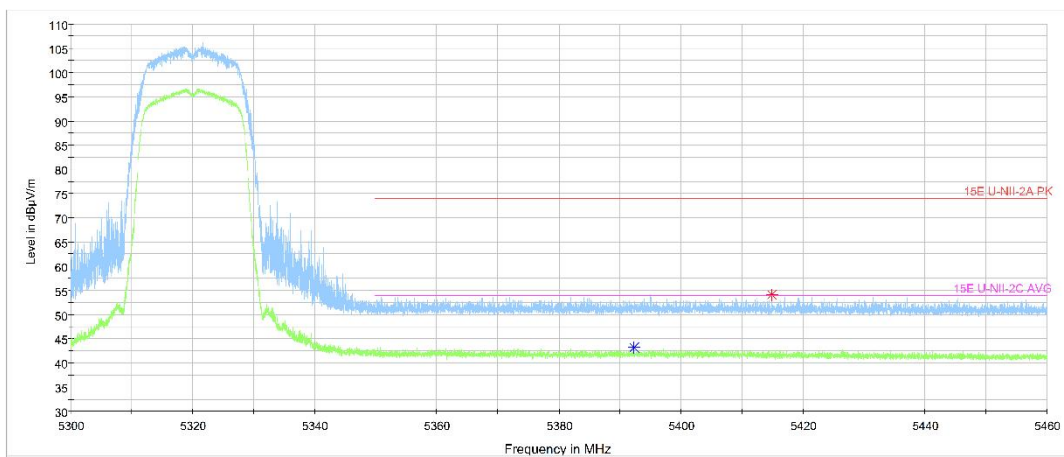


Fig. 2 Band Edges (802.11a Ch64, 5320MHz)

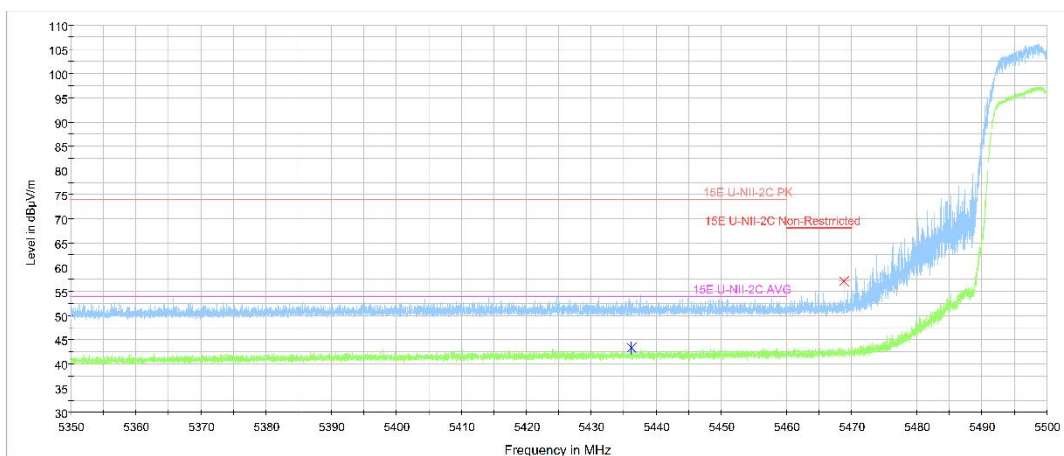


Fig. 3 Band Edges (802.11a Ch100, 5500MHz)

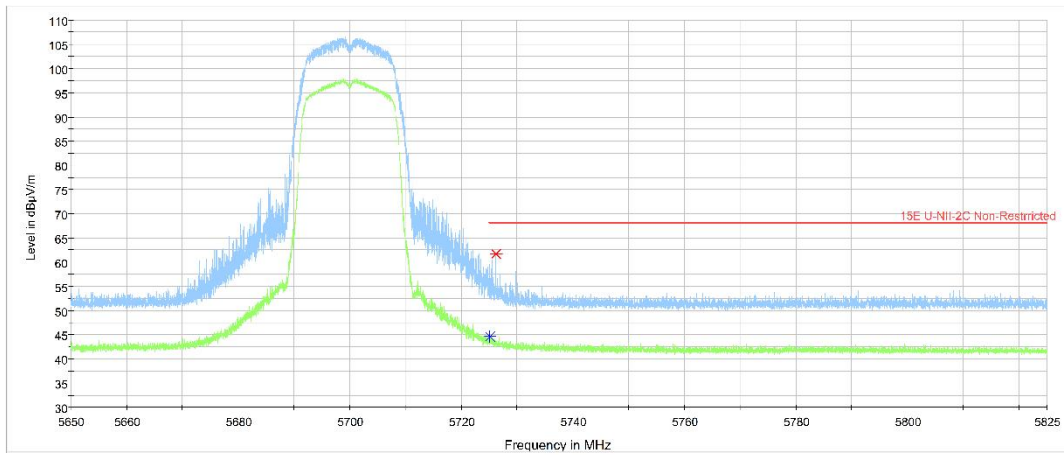


Fig. 4 Band Edges (802.11a Ch140, 5700MHz)

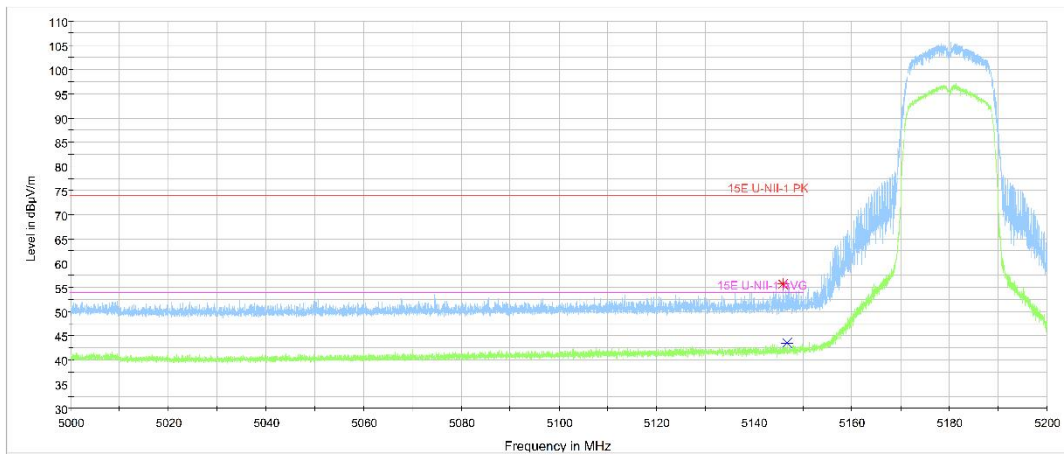


Fig. 5 Band Edges (802.11n-HT20 Ch36, 5180MHz)

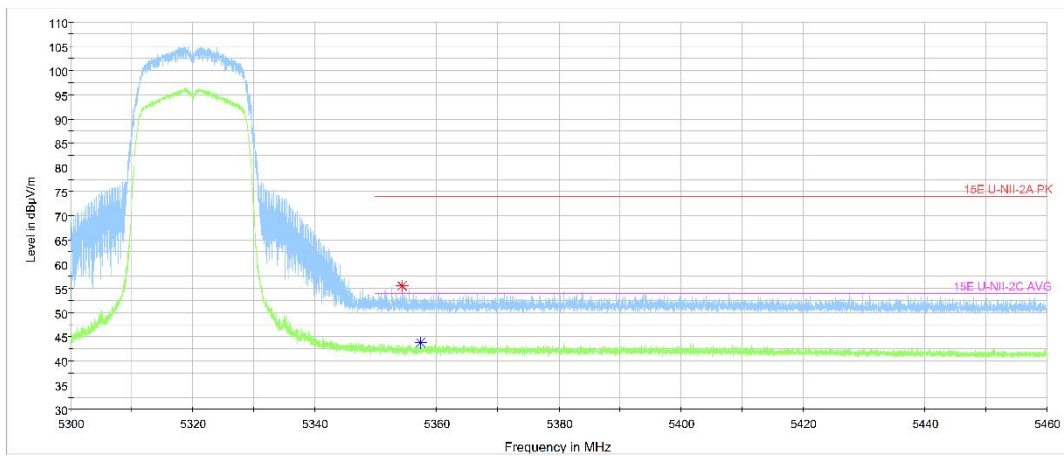


Fig. 6 Band Edges (802.11n-HT20 Ch64, 5320MHz)