

Prüfbericht-Nr.: <i>Test report no.:</i>	CN26CSYM 002	Auftrags-Nr.: <i>Order no.:</i>	27218014	Seite 1 von 22 Page 1 of 22
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2026-01-26	
Auftraggeber: <i>Client:</i>	Hui Zhou Gaoshengda Technology Co.,LTD No. 6, Qiaoguang Road, Chenjiang Street, Zhongkai High-tech Zone, Huizhou, Guangdong, China			
Prüfgegenstand: <i>Test item:</i>	WIFI Module			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	WK81R1501 (Trademark: GSD)			
Auftrags-Inhalt: <i>Order content:</i>	Test Report			
Prüfgrundlage: <i>Test specification:</i>	CFR Title 47 FCC Part 15: Subpart E Section 15.407 RSS-247 Issue 4 July 2025 RSS-Gen Issue 5 February 2021			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2026-01-26	Please refer to Photo Document		
Prüfmuster-Nr.: <i>Test sample no.:</i>	A004190689-001~003			
Prüfzeitraum: <i>Testing period:</i>	2026-02-06 - 2026-02-27			
Ort der Prüfung: <i>Place of testing:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von: <i>tested by:</i>		genehmigt von: <i>authorized by:</i>		
Datum: <i>Date:</i>	2026-04-17	Ausstellungsdatum: <i>Issue date:</i>	2026-04-17	
Stellung / Position:	Sachverständige(r)/Expert	Stellung / Position:	Sachverständige(r)/Expert	
Sonstiges / <i>Other:</i>	FCC ID: 2AC23-WK81 IC: 12290A-WK81, HVIN: WK81R1501 This report is for 5GHz Wi-Fi.			
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>			
* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet			
* Legend:	P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested			
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

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Anmerkungen
Remarks

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3	Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt. <i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i> <i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i>
4	Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2023, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019. <i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2023, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i>

Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 MAXIMUM PEAK CONDUCTED OUTPUT POWER

RESULT: Pass

5.1.3 CONDUCTED POWER SPECTRAL DENSITY

RESULT: Pass

5.1.4 FREQUENCY STABILITY

RESULT: Pass

5.1.5 26dB BANDWIDTH AND 99% BANDWIDTH

RESULT: Pass

5.1.6 6dB BANDWIDTH

RESULT: Pass

5.1.7 RADIATED SPURIOUS EMISSION

RESULT: Pass

5.1.8 DYNAMIC FREQUENCY SELECTION (DFS)

RESULT: Pass

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Test Results of 5GHz Wi-Fi

Appendix B: Photographs of the Test Set-up

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, China

FCC Accreditation Designation No.: 694916

ISED wireless device testing laboratory: 25069

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Radio Spectrum Testing (SRD-Tonscend)					
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. until
Wireless Connectivity Tester	R&S	CMW270	101375	2025-09-23	2026-09-22
EXA Signal Analyzer, Multi-touch	Keysight	N9010B	MY60241175	2025-09-23	2026-09-22
MXG X-Series RF Vector Signal Generator	Keysight	N5182B	MY61250137	2025-09-23	2026-09-22
EXG X-Series Microwave Analog Signal Generator	Keysight	N5173B	MY61250141	2025-09-23	2026-09-22
DC power supply	Keysight	E3642A	MY61276100	2025-09-23	2026-09-22
Power Control Unit	Tonscend	JS0806-4ADC	N/A	2025-09-23	2026-09-22
Automation Control Unit	Tonscend	JS0806-2	21C8060396	2025-09-23	2026-09-22
Test Software	Tonscend	JS1120-3	N/A	N/A	N/A
Control PC	Lenovo	TianYi510S-071MB	YLX23JMF	N/A	N/A
Shielding Room	Albatross	SR1	APC17151-SR1	2024-09-14	2027-09-13
Unwanted Emission Testing (TS9975)					
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. until
EMI Test Receiver	R&S	ESR 7	102021	2025-09-22	2026-09-21
Signal Analyzer	R&S	FSV 40	101439	2025-09-22	2026-09-21
System Controller Interface	R&S	SCI-100	S10010038	N/A	N/A
Filterbank	R&S	Wlan	100759	2025-09-22	2026-09-21
OSP	R&S	OSP 120	102040	N/A	N/A
Pre-amplifier	R&S	SCU08F1	08320031	2025-09-22	2026-09-21
Amplifier	R&S	SCU-18F	180070	2025-09-22	2026-09-21
Amplifier	R&S	SCU40A	100475	2025-09-22	2026-09-21
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	2024-09-28	2026-09-27
Double-Ridged	ETS-	3117	00218717	2024-09-28	2026-09-27

Antenna (1-18 GHz)	LINDGREN				
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	2024-09-28	2026-09-27
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	2024-09-28	2026-09-27
Test software	R&S	EMC32 (V10.60.10)	N/A	N/A	N/A
Control PC	Dell	OptiPlex 7050	36NV9P2	N/A	N/A
3m Semi-Anechoic Chamber	Albatross	SAC-3m	APC17151-SAC	2024-09-14	2027-09-13

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table.

Table 2: Measurement Uncertainty

Parameter	Uncertainty (k=2)
RF output power, conducted	± 0.99 dB
Occupied Channel Bandwidth	± 2.08 %
RF power density, conducted	± 0.99 dB
Unwanted Emissions, conducted	± 0.89 dB
All emissions, radiated	± 4.17 dB

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & B of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) Co., Ltd. File for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at 2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The EUT is a WIFI Module, which supports 2.4GHz Wi-Fi and 5GHz Wi-Fi functions.

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment:	WIFI Module
Type Designation:	WK81R1501
Trademark:	GSD
FCC ID:	2AC23-WK81
IC:	12290A-WK81
HVIN:	WK81R1501
Operating Voltage:	DC 3.3V
Operating Temperature Range:	-10 °C ~ +70 °C
Technical Specification of 2.4GHz Wi-Fi	
Operating Frequency:	2412 - 2462 MHz for 802.11b/g/n(HT20) 2422 - 2452 MHz for 802.11n(HT40)
Type of Modulation:	DSSS(DBPSK/DQPSK/CCK) OFDM(BPSK/QPSK/16QAM/64QAM)
Data Rate:	1/2/5.5/11 Mbps for 802.11b 6/9/12/18/24/36/48/54 Mbps for 802.11g MCS0 ~ MCS7 for 802.11n
Channel Number:	11 channels for 802.11b/g/n(HT20) 7 channels for 802.11n(HT40)
Channel Separation:	5 MHz
Antenna Type:	PCB Antenna
Antenna Number:	1Tx1Rx
Antenna Gain:	ANT0: 1.97dBi; ANT1: 1.24dBi (Provided by the Client)
Technical Specification of 5GHz Wi-Fi	
Operating Frequency:	5180-5240MHz, 5260-5320MHz, 5500-5700MHz, 5745-5825MHz
Protocol:	802.11 a/n20/n40
Channel Number:	5180-5240MHz, 6CHs 5260-5320MHz, 6CHs 5500-5700MHz, 16CHs 5745-5825MHz, 7CHs
Type of Modulation:	OFDM(BPSK/QPSK/16QAM/64QAM)
Data Rate:	6/9/12/18/24/36/48/54 Mbps for 802.11a MCS0~MCS7 for 802.11n
Channel Separation:	20MHz, 40MHz

Antenna Type:	PCB Antenna
Antenna Number:	1Tx1Rx
Antenna Gain:	ANT0: 1.71dBi; ANT1: 2.04dBi (Provided by the Client)

Note: The correctness of all data provided by customer in the test report is ensured and responsible of the customer. Any misjudgment of the test results caused by the use of incorrect data provided by customer shall be borne by the customer.

Table 4: RF Channel and Frequency of 5GHz Wi-Fi

U-NII-1			
20MHz Bandwidth		40MHz Bandwidth	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	38	5190
40	5200	46	5230
44	5220		
48	5240		

U-NII-2A			
20MHz Bandwidth		40MHz Bandwidth	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	54	5270
56	5280	62	5310
60	5300		
64	5320		

U-NII-2C			
20MHz Bandwidth		40MHz Bandwidth	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	102	5510
104	5520	110	5550
108	5540	118	5590
112	5560	126	5630
116	5580	134	5670
120	5600		
124	5620		
128	5640		
132	5660		
136	5680		
140	5700		

U-NII-3			
20MHz Bandwidth		40MHz Bandwidth	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	151	5755
153	5765	159	5795
157	5785		
161	5805		
165	5825		

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, 5G Wi-Fi wireless transmitting mode
 - 1. Low channel
 - 2. Middle channel
 - 3. High channel
- B. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- | | |
|-------------------------|----------------------------------|
| - Application Form | - User Manual |
| - Operation Description | - FCC/IC Label and Location Info |

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All tests were performed according to the procedures in ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024.

According to clause 3.1, all tests were performed on model *WK81R1501* in this report.

4.3 Special Accessories and Auxiliary Equipment

Table 5: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N
Laptop	Lenovo	T480	PF-16A6N8

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

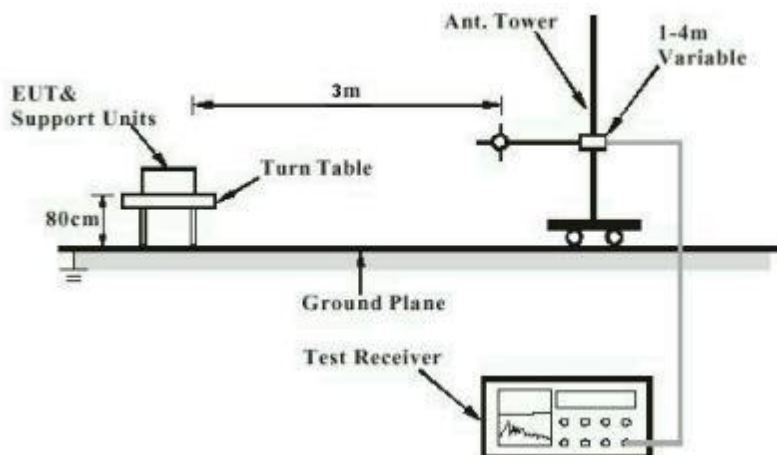


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

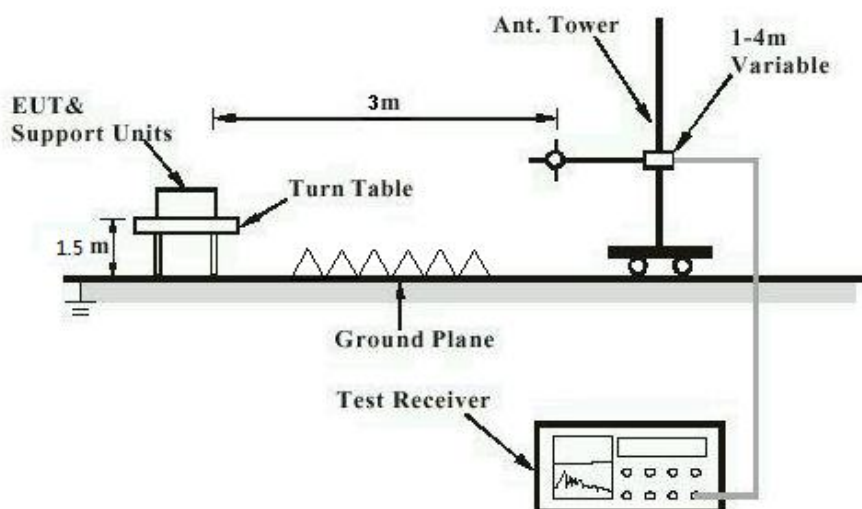


Diagram of Measurement Configuration for Conducted Transmitter Measurement

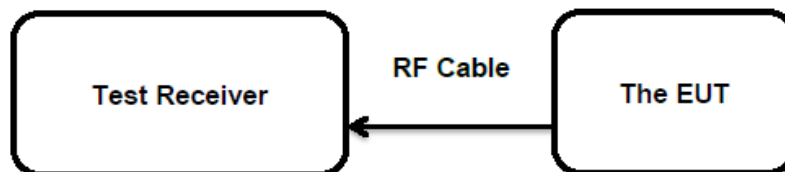
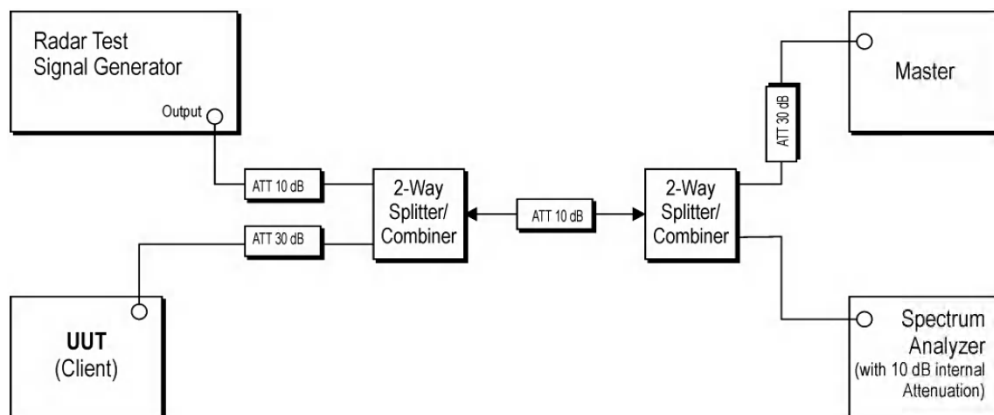


Diagram of Measurement Configuration for Dynamic Frequency Selection (DFS)



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.203
RSS-247 clause 6.8

According to the manufacturer declared, the EUT has PCB Antenna, permanent attachment and no consideration of replacement, refer to section 3.2 for details.

Therefore, the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

5.1.2 Maximum Peak Conducted Output Power

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.407(a)(1)&(2)&(4) RSS-247 clause 7.3
Basic standard	: ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024
Limits	: FCC: <250mW (24dBm) (5150-5250MHz) * <250mW (24dBm) (5250-5350MHz, 5470-5725MHz) * 250 mW (24dBm) or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz, where is lesser. <1W (30dBm) (5725-5850MHz) IC: * Max e.i.r.p. < 200mW (23dBm) (5150-5250MHz) * 200 mW (23dBm) or 10 dBm + 10 log B, where B is the 99% emission bandwidth in MHz, where is lesser. * Max conducted output power < 250mW (24dBm) (5250-5350MHz) * 250 mW (24dBm) or 11 dBm + 10 log B, where B is the 99% emission bandwidth in MHz, where is lesser. * Max e.i.r.p. < 1W (30dBm) (5250-5350MHz, 5470-5725MHz) * 1 W (30dBm) or 17 dBm + 10 log B, where B is the 99% emission bandwidth in MHz, where is lesser. Max conducted output power < 1W (30dBm) (5725-5850MHz)
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2026-02-25 to 2026-02-27
Input voltage	: DC 3.3V
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 25 °C
Relative humidity	: 45 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

5.1.3 Conducted Power Spectral Density

RESULT:**Pass****Test Specification**

Test standard	: FCC part 15.407(a) RSS-247 clause 7.3
Basic standard	: ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024 KDB 789033 D02 v01r03
Limits	: FCC: <11dBm/MHz (5150-5250MHz 5250-5350MHz, 5470- 5725MHz) <30dBm/500kHz (5725-5850MHz) IC: e.i.r.p. spectral density <10dBm/MHz (5150-5250MHz) <11dBm/1MHz (5250-5350MHz, 5470-5725MHz) <30dBm/500kHz (5725-5850MHz)
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2026-02-25 to 2026-02-27
Input voltage	: DC 3.3V
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 25 °C
Relative humidity	: 45 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

5.1.4 Frequency Stability

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.407(g) RSS-Gen Clause 6.11
Basic standard	: ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024
Limits	: Within assigned bands
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2026-02-25 to 2026-02-27
Input voltage	: DC 3.3V
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 25 °C
Relative humidity	: 45 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

5.1.5 26dB Bandwidth and 99% Bandwidth

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.407 RSS-Gen Clause 6.7
Basic standard	: ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024
Limits	: N/A
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2026-02-25 to 2026-02-27
Input voltage	: DC 3.3V
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 25 °C
Relative humidity	: 45 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

5.1.6 6dB Bandwidth

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.407(e) RSS-247 clause 7.3.4.2
Basic standard	: ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024
Limits	: At least 500kHz (5725-5850MHz)
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2026-02-25 to 2026-02-27
Input voltage	: DC 3.3V
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 25 °C
Relative humidity	: 45 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

5.1.7 Radiated Spurious Emission

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.407(b) & FCC Part 15.205 & FCC Part 15.209 RSS-247 clause 7.3 & RSS-GEN clause 8.9 and 8.10
Basic standard	: ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024 KDB 789033 D02 v01r03
Limits	: • 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. • 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. • 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. • For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. • Restricted Bands meet the requirement of 15.209 limit and RSS-GEN
Kind of test site	: 3m Semi-anechoic Chamber

Test Setup

Date of testing	: 2026-02-06 to 2026-02-08
Input voltage	: DC 3.3V
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: Refer to test result
Relative humidity	: Refer to test result
Atmospheric pressure	: 101 kPa

Remark: Testing was carried out within frequency range 9kHz to the tenth harmonics. Only the worst case spurious emissions configuration of the each mode were reported.

For the measurement records, refer to the appendix A.

5.1.8 Dynamic Frequency Selection (DFS)

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.407(h) RSS-247 clause 7.3.6
Basic standard	: ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024, EN 301 893 V2.2.1
Limits	: 5250-5350MHz, 5470-5725MHz Channel Move Time: Within 10 seconds. Channel Closing Transmission Time: 200ms+aggregate of 60ms over remaining 10s period; Non-Occupancy Period: at least 30 minutes.
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2026-02-25 to 2026-02-27
Input voltage	: DC 3.3V
Operation mode	: A
Ambient temperature	: 25 °C
Relative humidity	: 45 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

6 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix B.

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Appendix A.1: Test Results of 26dB Bandwidth

Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	19.240	5170.560	5189.800	---	PASS
		5200	19.360	5190.240	5209.600	---	PASS
		5240	19.280	5230.120	5249.400	---	PASS
		5260	19.400	5250.200	5269.600	---	PASS
		5280	19.720	5270.080	5289.800	---	PASS
		5320	19.120	5310.440	5329.560	---	PASS
		5500	20.080	5490.160	5510.240	---	PASS
		5580	19.400	5570.360	5589.760	---	PASS
11N20SISO	Ant1	5700	18.960	5690.560	5709.520	---	PASS
		5180	20.200	5169.840	5190.040	---	PASS
		5200	19.960	5189.880	5209.840	---	PASS
		5240	20.000	5230.000	5250.000	---	PASS
		5260	20.240	5249.840	5270.080	---	PASS
		5280	20.160	5269.920	5290.080	---	PASS
		5320	19.880	5310.000	5329.880	---	PASS
		5500	20.480	5489.920	5510.400	---	PASS
11N40SISO	Ant1	5580	20.200	5569.720	5589.920	---	PASS
		5700	19.720	5690.240	5709.960	---	PASS
		5190	38.160	5170.800	5208.960	---	PASS
		5230	38.080	5211.040	5249.120	---	PASS
		5270	37.920	5251.040	5288.960	---	PASS
		5310	38.080	5290.960	5329.040	---	PASS
		5510	38.080	5491.040	5529.120	---	PASS
		5550	38.240	5530.880	5569.120	---	PASS
		5670	38.160	5650.880	5689.040	---	PASS

Test Graphs

11A Ant1 5180



11A Ant1 5200



11A Ant1 5240

















11N40SISO Ant1 5670



Appendix A.2: Test Results of 99% Bandwidth

Test Result

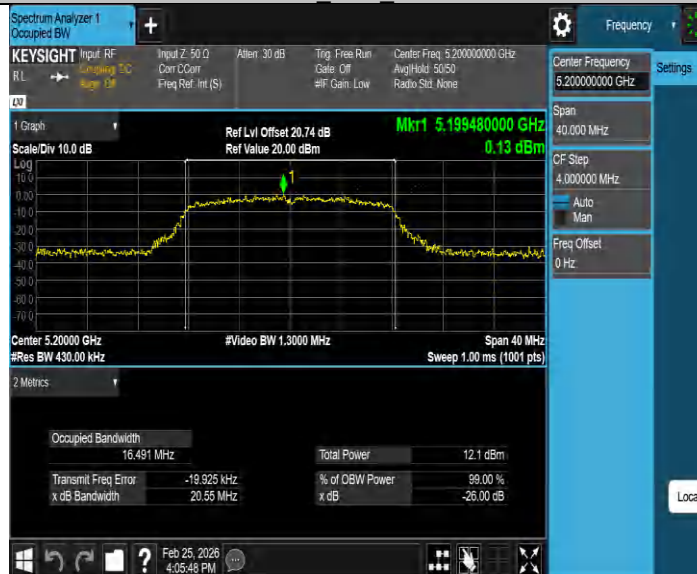
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.578	5171.7364	5188.3144	---	PASS
		5200	16.491	5191.7346	5208.2256	---	PASS
		5240	16.452	5231.7868	5248.2388	---	PASS
		5260	16.558	5251.7569	5268.3149	---	PASS
		5280	16.514	5271.7428	5288.2568	---	PASS
		5320	16.496	5311.7439	5328.2399	---	PASS
		5500	16.530	5491.7967	5508.3267	---	PASS
		5580	16.580	5571.7542	5588.3342	---	PASS
		5700	16.504	5691.7261	5708.2301	---	PASS
		5745	16.524	5736.7435	5753.2675	---	PASS
		5785	16.521	5776.7619	5793.2829	---	PASS
		5825	16.497	5816.7660	5833.2630	---	PASS
11N20SISO	Ant1	5180	17.640	5171.1852	5188.8252	---	PASS
		5200	17.585	5191.2238	5208.8088	---	PASS
		5240	17.561	5231.2117	5248.7727	---	PASS
		5260	17.647	5251.2106	5268.8576	---	PASS
		5280	17.610	5271.1929	5288.8029	---	PASS
		5320	17.636	5311.2105	5328.8465	---	PASS
		5500	17.645	5491.2073	5508.8523	---	PASS
		5580	17.559	5571.2778	5588.8368	---	PASS
		5700	17.638	5691.1695	5708.8075	---	PASS
		5745	17.567	5736.2150	5753.7820	---	PASS
		5785	17.512	5776.2626	5793.7746	---	PASS
		5825	17.551	5816.2311	5833.7821	---	PASS
11N40SISO	Ant1	5190	35.874	5172.0175	5207.8915	---	PASS
		5230	35.570	5212.2017	5247.7717	---	PASS
		5270	35.668	5252.1685	5287.8365	---	PASS
		5310	35.609	5292.1896	5327.7986	---	PASS
		5510	35.725	5492.2190	5527.9440	---	PASS
		5550	35.620	5532.3015	5567.9215	---	PASS
		5670	35.544	5652.2571	5687.8011	---	PASS
		5755	35.666	5737.1948	5772.8608	---	PASS
		5795	35.556	5777.2287	5812.7847	---	PASS

Test Graphs

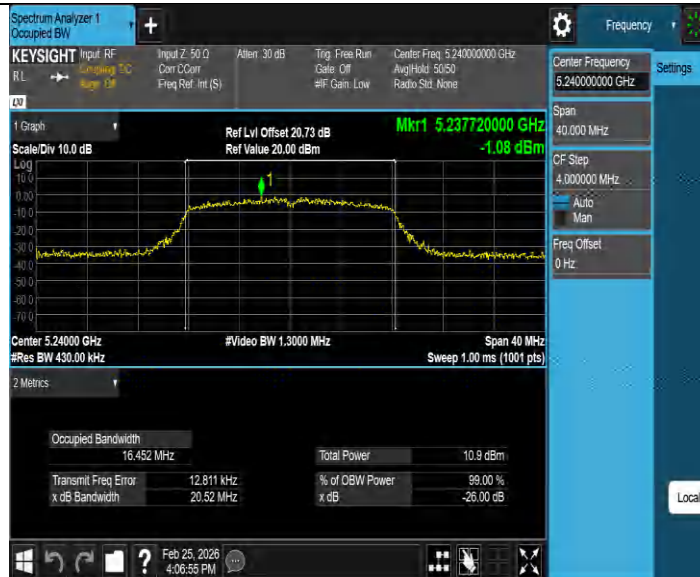
11A Ant1 5180



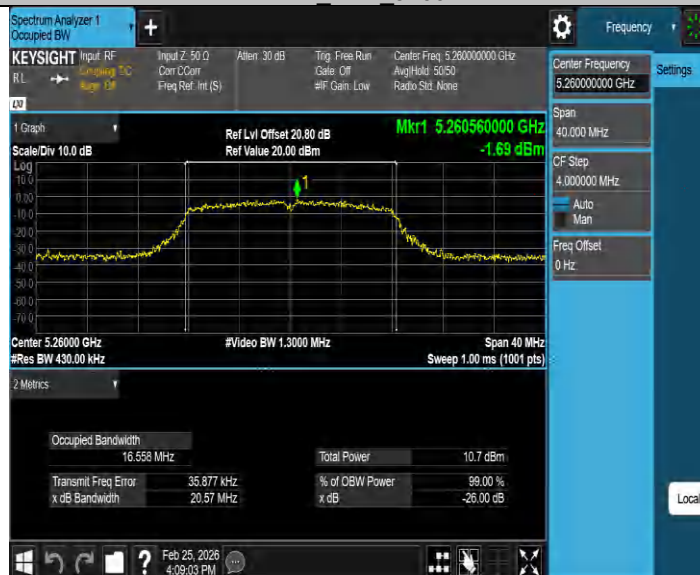
11A Ant1 5200



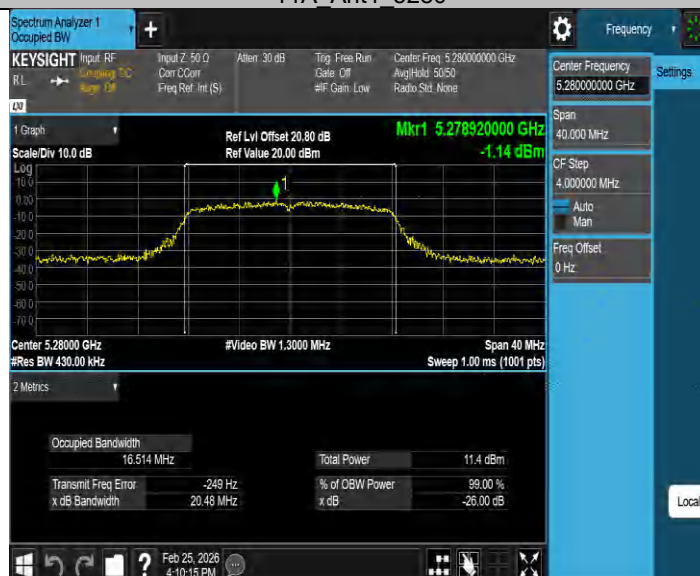
11A Ant1 5240



11A_Ant1_5260



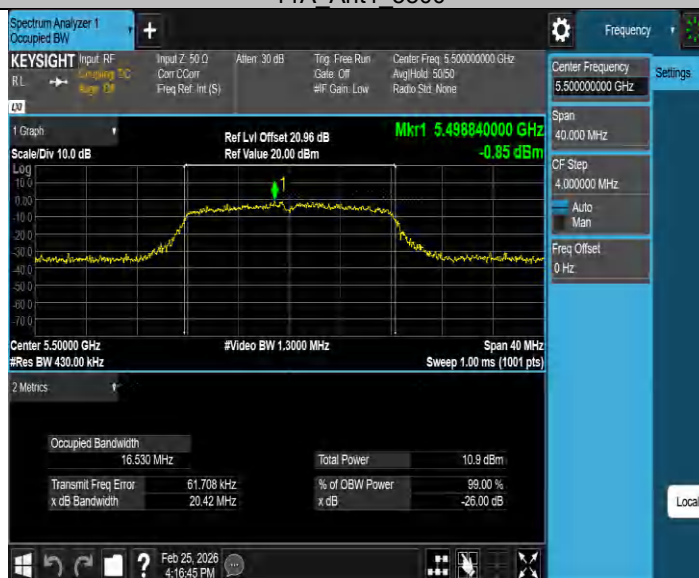
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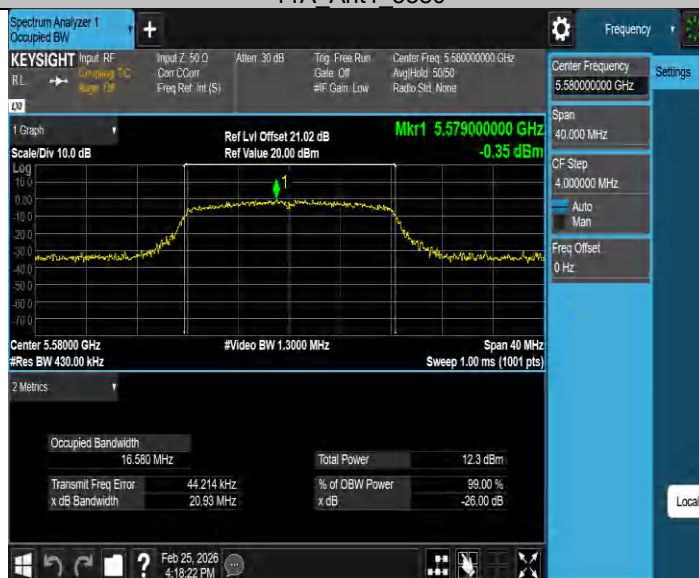
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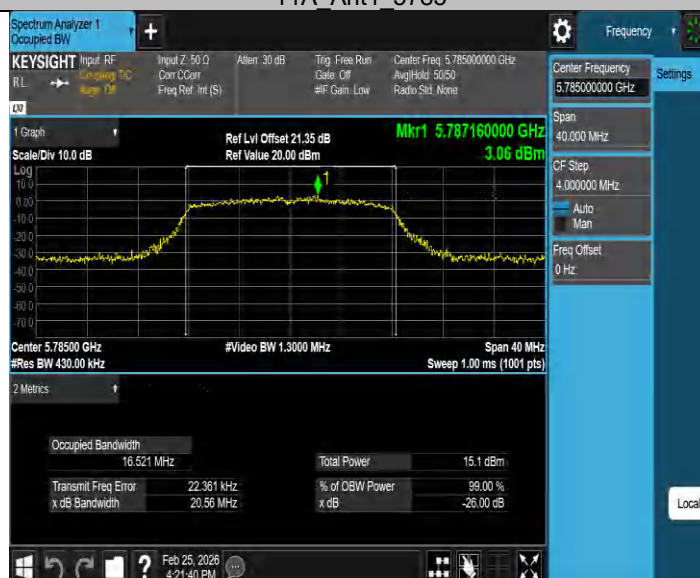
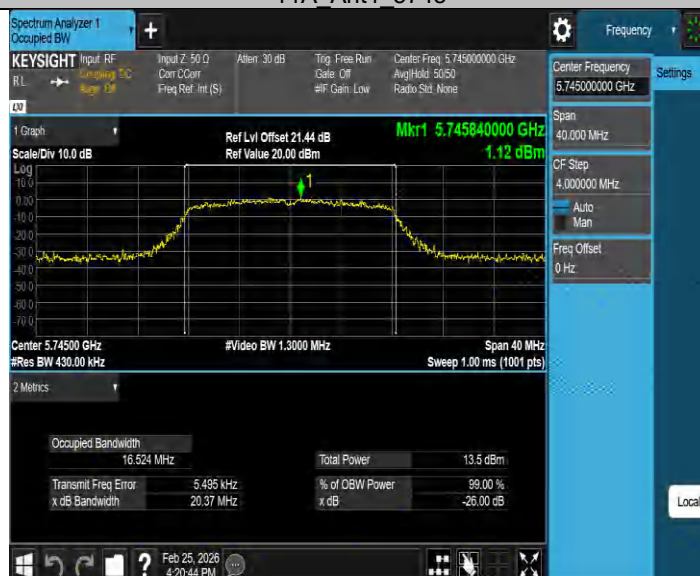
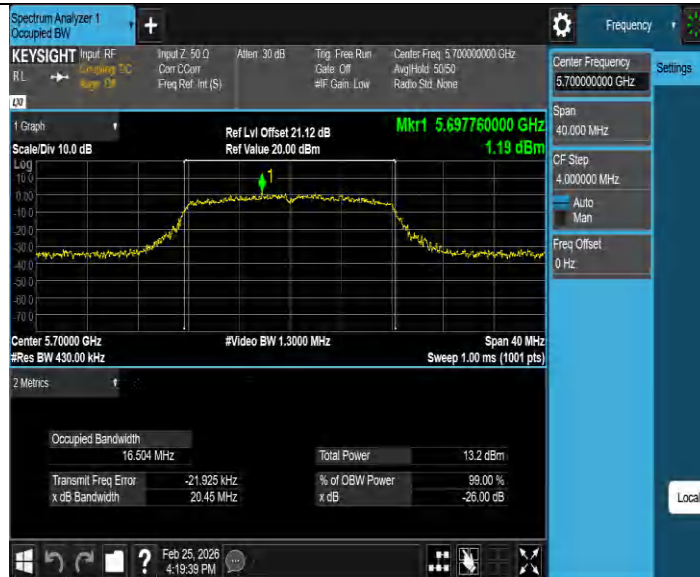
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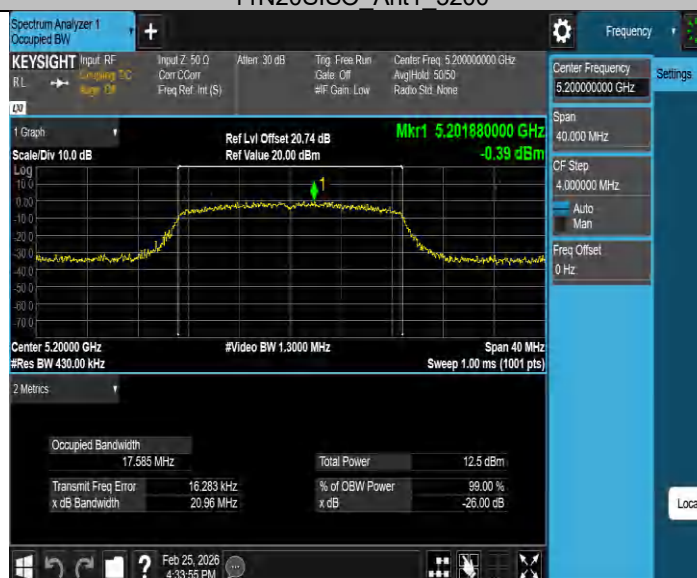
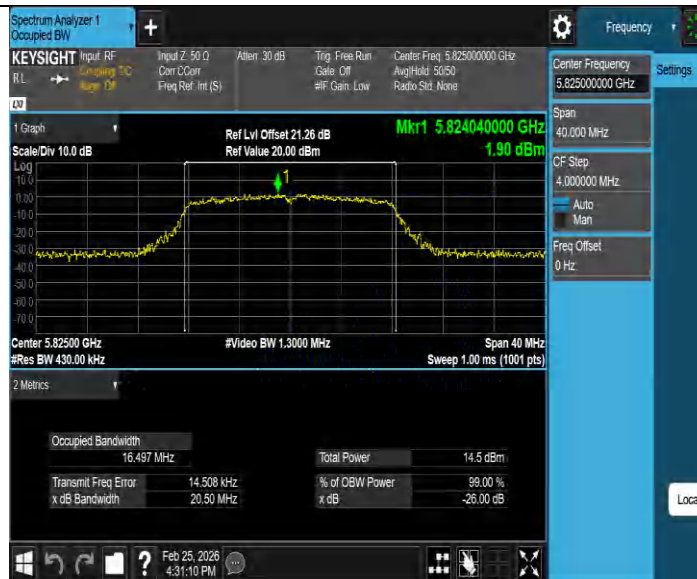


11A Ant1 5580

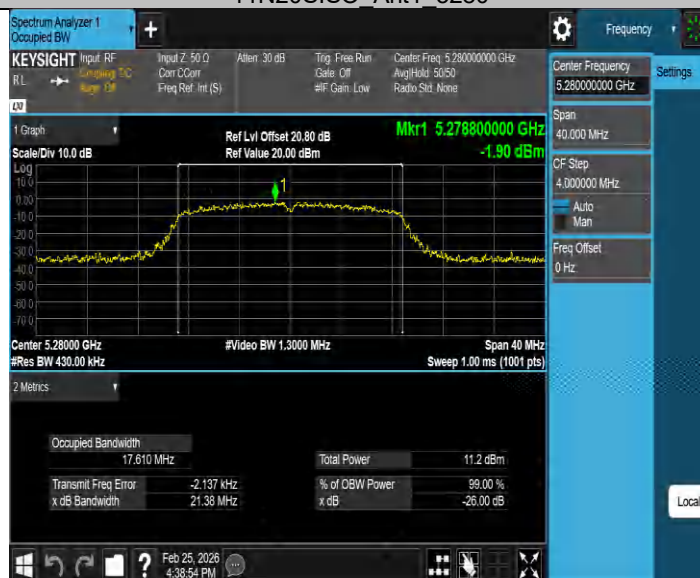
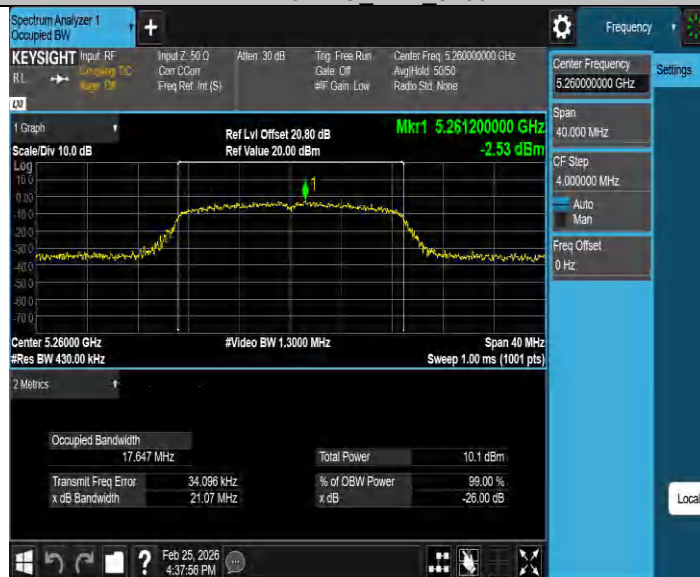


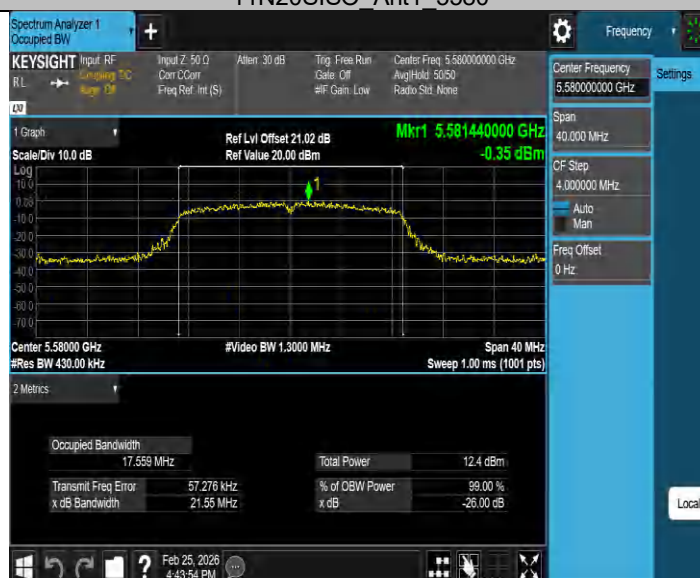
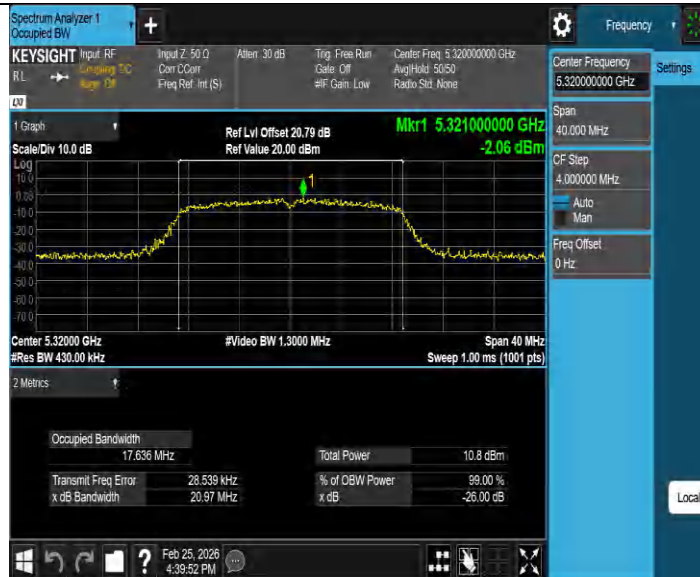
11A Ant1 5700



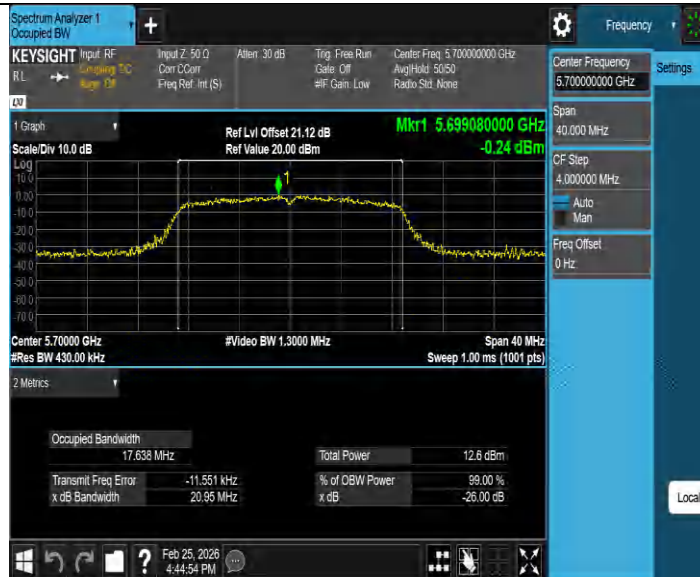


11N20SISO_Ant1_5240





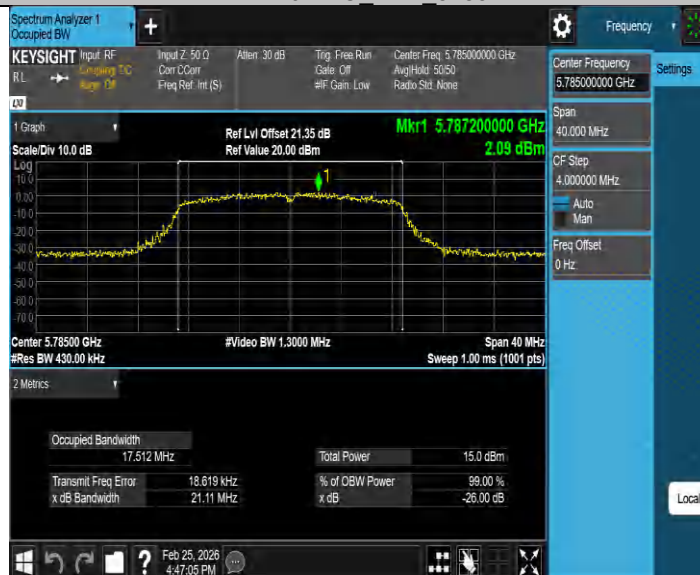
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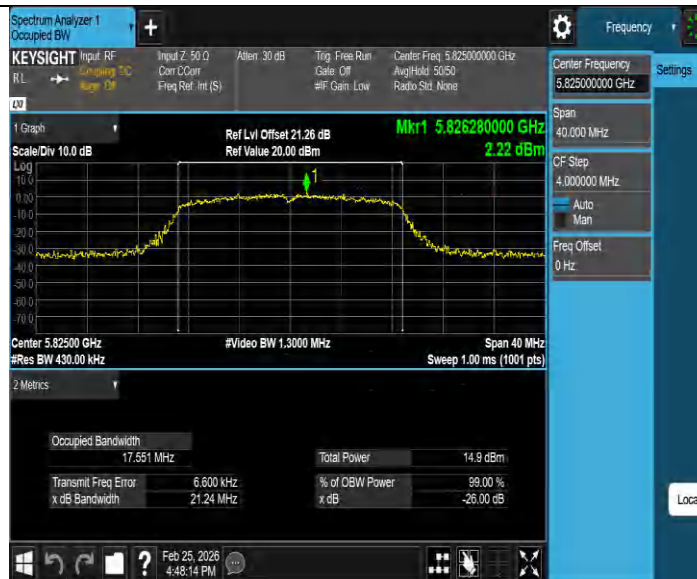
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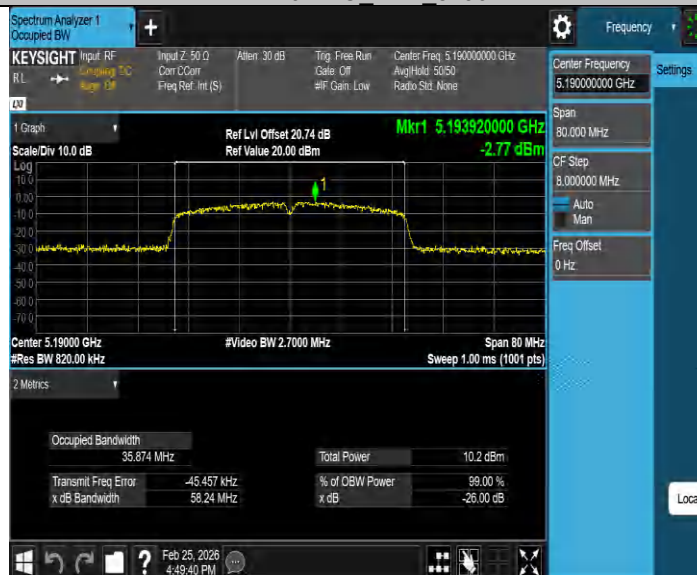
11N20SISO Ant1 5785



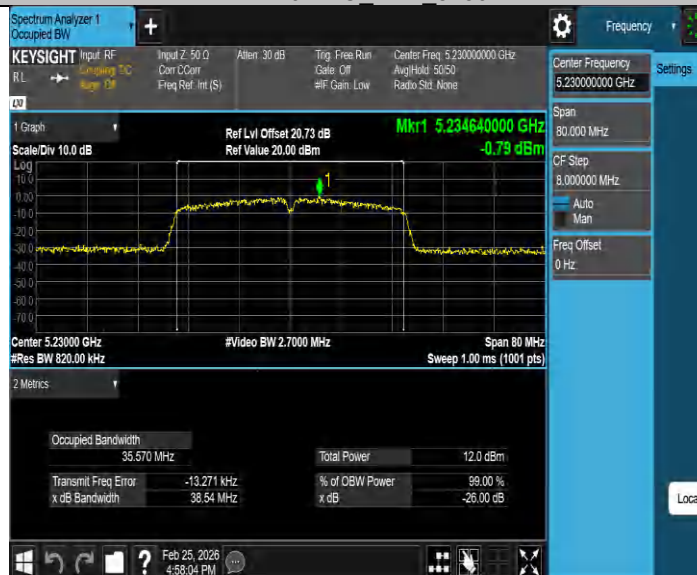
11N20SISO Ant1 5825



11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



11N40SISO_Ant1_5270



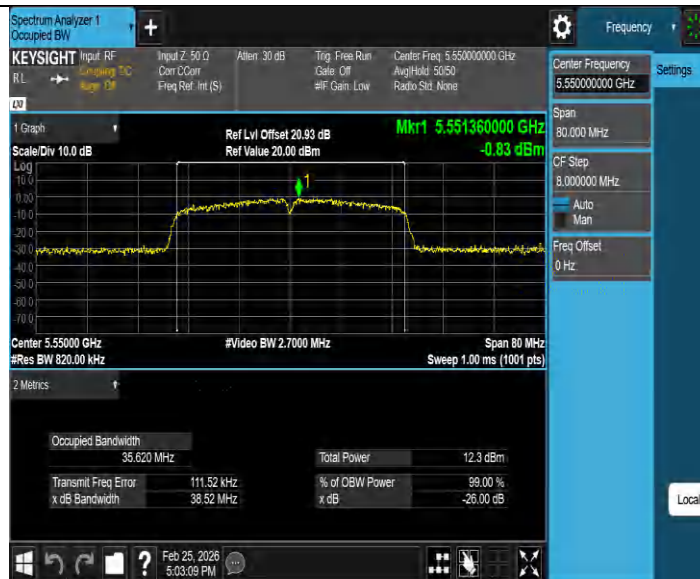
11N40SISO Ant1 5310



11N40SISO Ant1 5510



11N40SISO Ant1 5550



11N40SISO Ant1 5670



11N40SISO Ant1 5755



11N40SISO Ant1 5795



Appendix A.3: Test Results of 6dB Bandwidth

Test Result

TestMode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	13.280	5737.760	5751.040	0.5	PASS
		5785	15.360	5776.880	5792.240	0.5	PASS
		5825	14.280	5818.200	5832.480	0.5	PASS
11N20SISO	Ant1	5745	17.040	5736.240	5753.280	0.5	PASS
		5785	16.680	5776.480	5793.160	0.5	PASS
		5825	14.440	5817.720	5832.160	0.5	PASS
11N40SISO	Ant1	5755	29.920	5741.000	5770.920	0.5	PASS
		5795	29.200	5779.160	5808.360	0.5	PASS

Test Graphs

11A Ant1 5745



11A Ant1 5785



11A Ant1 5825





Appendix A.4: Test Results of Maximum output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	16.45	≤23.98	PASS
		5200	16.25	≤23.98	PASS
		5240	15.81	≤23.98	PASS
		5260	15.66	≤23.98	PASS
		5280	15.60	≤23.98	PASS
		5320	15.57	≤23.98	PASS
		5500	15.64	≤23.98	PASS
		5580	16.07	≤23.98	PASS
		5700	14.54	≤23.98	PASS
		5745	16.42	≤30.00	PASS
		5785	16.50	≤30.00	PASS
11N20SISO	Ant1	5825	16.68	≤30.00	PASS
		5180	15.76	≤23.98	PASS
		5200	15.65	≤23.98	PASS
		5240	15.11	≤23.98	PASS
		5260	15.05	≤23.98	PASS
		5280	15.02	≤23.98	PASS
		5320	14.96	≤23.98	PASS
		5500	14.99	≤23.98	PASS
		5580	15.37	≤23.98	PASS
		5700	13.98	≤23.98	PASS
		5745	15.65	≤30.00	PASS
11N40SISO	Ant1	5785	15.87	≤30.00	PASS
		5825	16.12	≤30.00	PASS
		5190	13.75	≤23.98	PASS
		5230	15.37	≤23.98	PASS
		5270	15.15	≤23.98	PASS
		5310	14.12	≤23.98	PASS
		5510	13.87	≤23.98	PASS
		5550	15.36	≤23.98	PASS
	Ant1	5670	14.23	≤23.98	PASS
		5755	15.89	≤30.00	PASS
		5795	16.16	≤30.00	PASS

U-NII 1: Max. e.i.r.p.= 16.45dBm+2.04dBi= 18.49dBm, which is less than 22.16dBm (10 dBm + 10 logB, dBm)
U-NII 2: Max. e.i.r.p.= 16.07dBm+2.04dBi= 18.11dBm, which is less than 29.17dBm (17 dBm + 10 logB, dBm)

Note:

- 1) The Duty Cycle Factor is compensated in the graph.
- 2) Antenna gain(G): max. 2.04dBi, e.i.r.p.=P(Conducted power)+ G
- 3) B is the 99% emission bandwidth in MHz

Appendix A.5: Test Results of Conducted Power Spectral Density

Test Result

TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	3.11	≤11.00	PASS
		5200	3.32	≤11.00	PASS
		5240	2.53	≤11.00	PASS
		5260	2.15	≤11.00	PASS
		5280	2.17	≤11.00	PASS
		5320	1.47	≤11.00	PASS
		5500	1.89	≤11.00	PASS
		5580	3.43	≤11.00	PASS
		5700	3.97	≤11.00	PASS
		5745	2.17	≤30.00	PASS
		5785	1.27	≤30.00	PASS
11N20SISO	Ant1	5825	1.34	≤30.00	PASS
		5180	2.70	≤11.00	PASS
		5200	2.34	≤11.00	PASS
		5240	2.11	≤11.00	PASS
		5260	0.98	≤11.00	PASS
		5280	1.06	≤11.00	PASS
		5320	0.68	≤11.00	PASS
		5500	0.88	≤11.00	PASS
		5580	2.90	≤11.00	PASS
		5700	2.89	≤11.00	PASS
		5745	0.35	≤30.00	PASS
11N40SISO	Ant1	5785	0.53	≤30.00	PASS
		5825	0.88	≤30.00	PASS
		5190	0.86	≤11.00	PASS
		5230	-0.81	≤11.00	PASS
		5270	-1.41	≤11.00	PASS
		5310	-1.93	≤11.00	PASS
		5510	-1.21	≤11.00	PASS
		5550	-0.34	≤11.00	PASS
		5670	0.49	≤11.00	PASS
	Ant1	5755	-2.35	≤30.00	PASS
		5795	-2.00	≤30.00	PASS

U-NII 1: Max. e.i.r.p. spectral density= 3.32dBm+2.04dBi= 5.36dBm/MHz, which is less than 10dBm/MHz

Note:

- 1) The cable loss is taken into account in results.
- 2) Antenna gain(G): max. 2.04dBi for U-NII Band 1.
- 3) The Result and Limit Unit is dBm/500 kHz in the band 5.725~5.85 GHz.

Test Graphs

11A Ant1 5180



11A Ant1 5200



11A Ant1 5240





11A_Ant1_5500



11A_Ant1_5580



11A_Ant1_5700





11N20SISO Ant1 5180

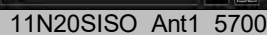


11N20SISO Ant1 5200



11N20SISO Ant1 5240







11N20SISO Ant1 5745



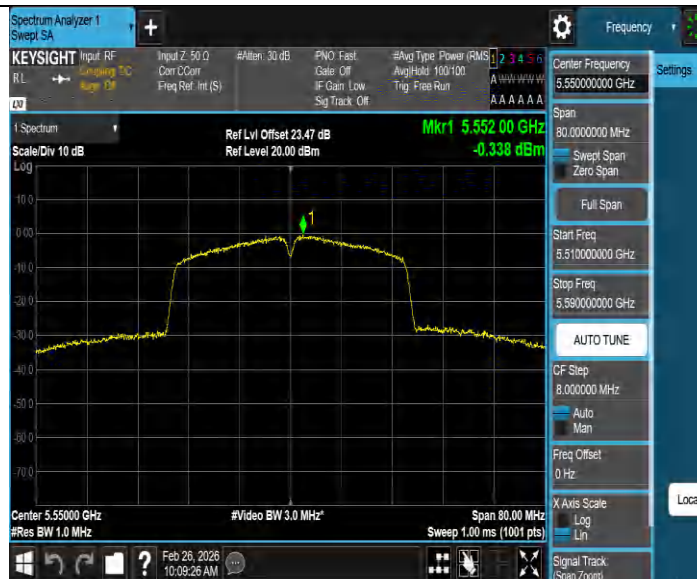
11N20SISO Ant1 5785

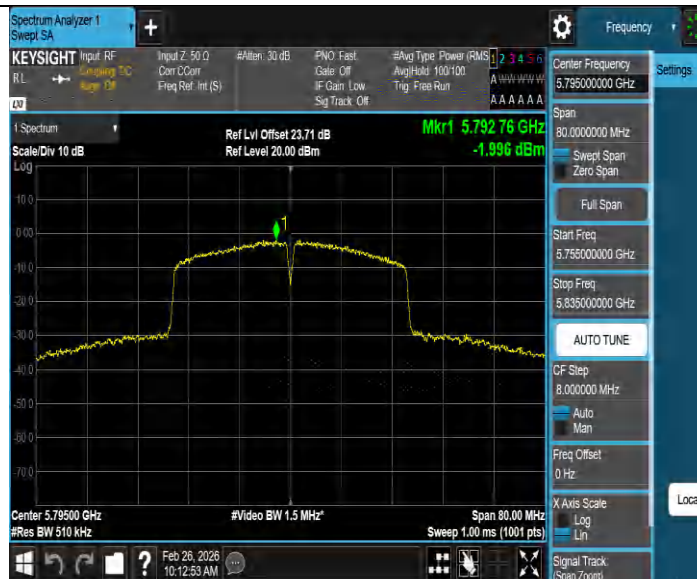


11N20SISO Ant1 5825









Appendix A.6: Test Results of Frequency Stability

Test Result

TestMode	Antenna	Channel	Voltage					Verdict
			Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	
11N20SISO	Ant1	5180	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-20000.00	-3.861004	20	PASS
			HV	NT	-20000.00	-3.861004	20	PASS
		5200	NV	NT	-20000.00	-3.846154	20	PASS
			LV	NT	-20000.00	-3.846154	20	PASS
			HV	NT	-20000.00	-3.846154	20	PASS
		5240	NV	NT	-20000.00	-3.816794	20	PASS
			LV	NT	-20000.00	-3.816794	20	PASS
			HV	NT	-20000.00	-3.816794	20	PASS
		5260	NV	NT	-20000.00	-3.802281	20	PASS
			LV	NT	-20000.00	-3.802281	20	PASS
			HV	NT	-20000.00	-3.802281	20	PASS
		5280	NV	NT	-20000.00	-3.787879	20	PASS
			LV	NT	-20000.00	-3.787879	20	PASS
			HV	NT	-20000.00	-3.787879	20	PASS
		5320	NV	NT	-20000.00	-3.759398	20	PASS
			LV	NT	-20000.00	-3.759398	20	PASS
			HV	NT	-20000.00	-3.759398	20	PASS
		5500	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-20000.00	-3.636364	20	PASS
			HV	NT	-20000.00	-3.636364	20	PASS
		5580	NV	NT	-20000.00	-3.584229	20	PASS
			LV	NT	-20000.00	-3.584229	20	PASS
			HV	NT	-20000.00	-3.584229	20	PASS
		5700	NV	NT	-20000.00	-3.508772	20	PASS
			LV	NT	-20000.00	-3.508772	20	PASS
			HV	NT	-20000.00	-3.508772	20	PASS
		5745	NV	NT	-20000.00	-3.481288	20	PASS
			LV	NT	-20000.00	-3.481288	20	PASS
			HV	NT	-20000.00	-3.481288	20	PASS
		5785	NV	NT	-20000.00	-3.457217	20	PASS
			LV	NT	-20000.00	-3.457217	20	PASS
			HV	NT	-20000.00	-3.457217	20	PASS
		5825	NV	NT	-20000.00	-3.433476	20	PASS
			LV	NT	-20000.00	-3.433476	20	PASS
			HV	NT	-20000.00	-3.433476	20	PASS

TestMode	Antenna	Channel	Temperature					Verdict
			Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	
11N20SISO	Ant1	5180	NV	0	-20000.00	-3.861004	20	PASS
			NV	40	-20000.00	-3.861004	20	PASS
		5200	NV	0	0.00	0.000000	20	PASS
			NV	40	-20000.00	-3.846154	20	PASS
		5240	NV	0	-20000.00	-3.816794	20	PASS
			NV	40	-20000.00	-3.816794	20	PASS
		5260	NV	0	-20000.00	-3.802281	20	PASS
			NV	40	0.00	0.000000	20	PASS
		5280	NV	0	-20000.00	-3.787879	20	PASS
			NV	40	-20000.00	-3.787879	20	PASS
		5320	NV	0	-20000.00	-3.759398	20	PASS
			NV	40	-20000.00	-3.759398	20	PASS
		5500	NV	0	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
		5580	NV	0	-20000.00	-3.584229	20	PASS
			NV	40	-20000.00	-3.584229	20	PASS

		5700	NV	0	-20000.00	-3.508772	20	PASS
			NV	40	-20000.00	-3.508772	20	PASS
		5745	NV	0	-20000.00	-3.481288	20	PASS
			NV	40	-20000.00	-3.481288	20	PASS
		5785	NV	0	-20000.00	-3.457217	20	PASS
			NV	40	-20000.00	-3.457217	20	PASS
		5825	NV	0	-20000.00	-3.433476	20	PASS
			NV	40	-20000.00	-3.433476	20	PASS

Appendix A.7: Test Results of Radiated Spurious Emissions

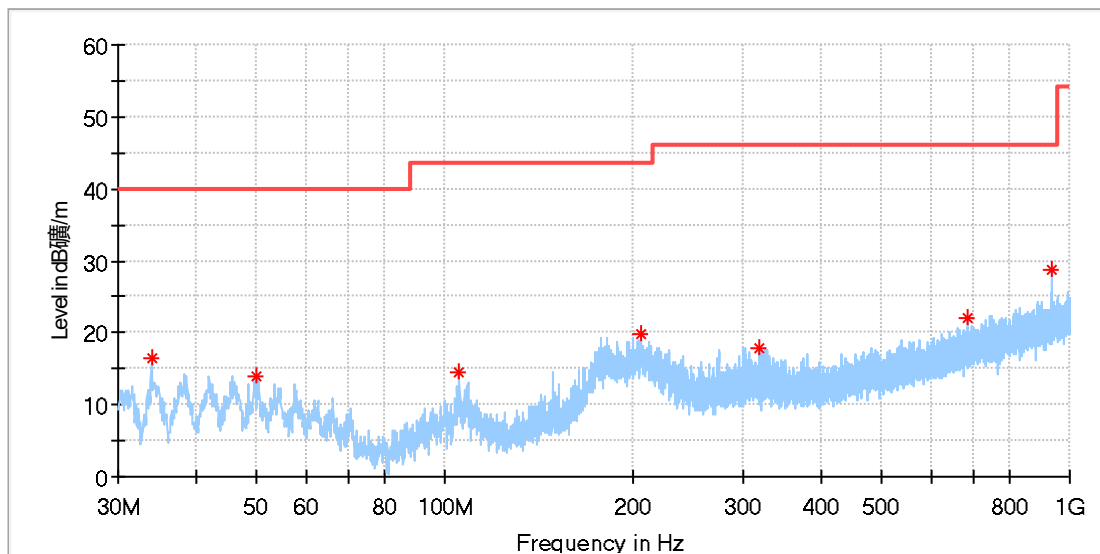
Note:

- 1) This testing was carried out on different modulations, but only the worst case was presented in this report.
- 2) Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

30MHz - 1GHz

EUT Information

EUT Name:	WIFI Module
Model:	WK81R1501
Test Mode:	WIFI 5G_11a_Ch48
Order No/Sample No:	A004190689-003
Test Voltage:	DC 3.3V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

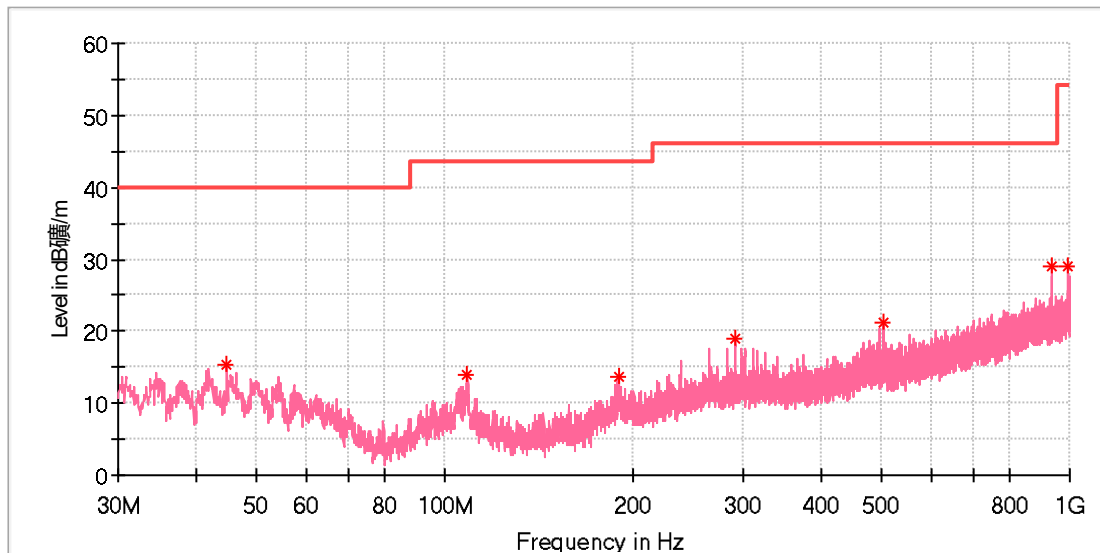
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
33.933889	16.39	40.00	23.61	100.0	H	285.0	-22.3
49.831111	13.91	40.00	26.09	100.0	H	171.0	-18.4
105.552222	14.62	43.50	28.88	100.0	H	0.0	-18.9
206.432222	19.87	43.50	23.63	100.0	H	156.0	-19.0
317.766667	17.97	46.00	28.03	100.0	H	49.0	-15.8
687.175000	22.06	46.00	23.94	100.0	H	349.0	-8.2
937.542778	28.76	46.00	17.24	100.0	H	257.0	-4.4

Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

EUT Information

EUT Name: WIFI Module
Model: WK81R1501
Test Mode: WIFI 5G_11a_Ch48
Order No/Sample No: A004190689-003
Test Voltage: DC 3.3V
Remark: Temp 22 Humi:55%
Test Standard: FCC 15.407
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
44.765556	15.44	40.00	24.56	100.0	V	236.0	-19.0
108.785556	14.02	43.50	29.48	100.0	V	23.0	-19.1
189.565000	13.62	43.50	29.88	100.0	V	256.0	-19.7
291.415000	19.08	46.00	26.92	100.0	V	48.0	-16.5
503.360000	21.26	46.00	24.74	100.0	V	135.0	-11.8
937.542778	28.98	46.00	17.02	100.0	V	6.0	-4.4
995.796667	28.99	54.00	25.01	100.0	V	155.0	-3.5

Final Result

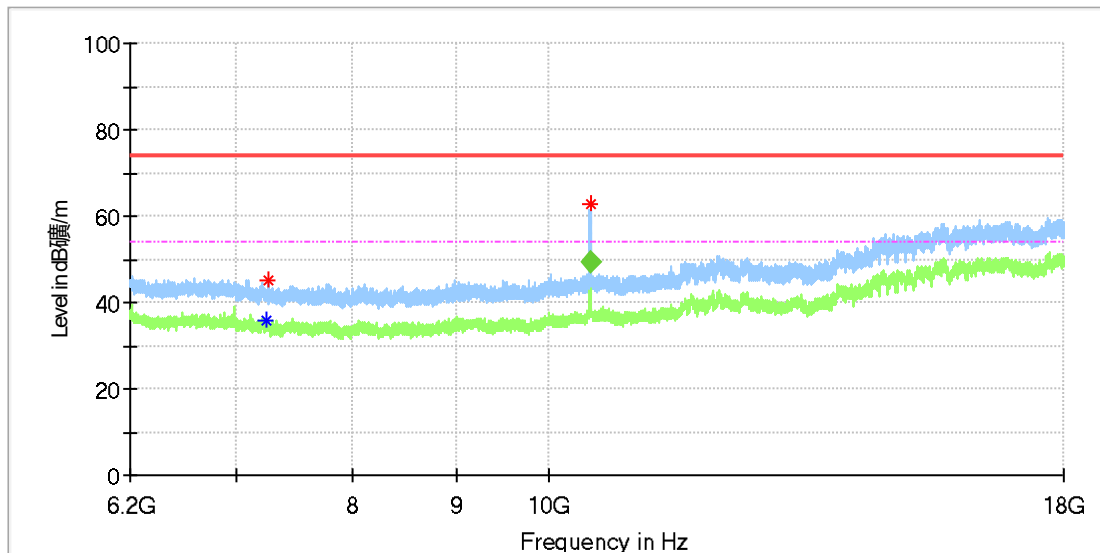
Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Information

EUT Name: WIFI Module
Model: WK81R1501
Test Mode: WIFI 5G_11a_Ch48
Order No/Sample No: A004190689-003
Test Voltage: DC 3.3V
Remark: Temp 22 Humi:55%
Test Standard: FCC 15.407
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

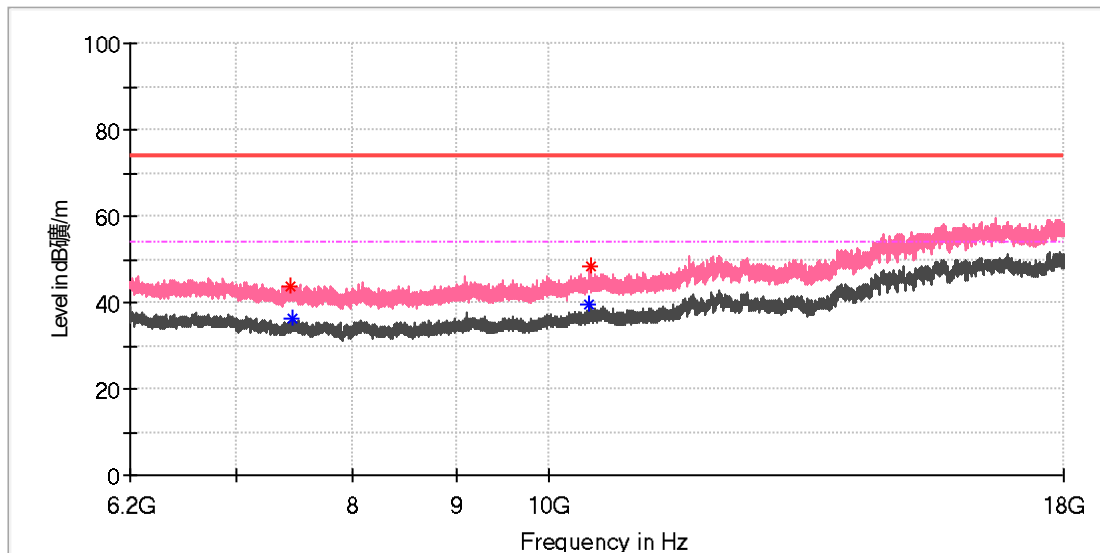
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7240.366667	---	35.99	54.00	18.01	150.0	H	185.0	8.6
7253.641667	45.08	---	74.00	28.92	150.0	H	206.0	8.5
10481.925000	62.72	---	74.00	11.28	150.0	H	115.0	12.0

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10482.122083	---	49.24	54.00	4.76	150.0	H	115.0	12.0

EUT Information

EUT Name:	WIFI Module
Model:	WK81R1501
Test Mode:	WIFI 5G_11a_Ch48
Order No/Sample No:	A004190689-003
Test Voltage:	DC 3.3V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7444.900000	43.91	---	74.00	30.09	150.0	V	260.0	8.5
7456.208333	---	36.20	54.00	17.80	150.0	V	340.0	8.5
10478.483333	---	39.70	54.00	14.30	150.0	V	194.0	12.0
10483.400000	48.19	---	74.00	25.81	150.0	V	60.0	12.0

Final Result

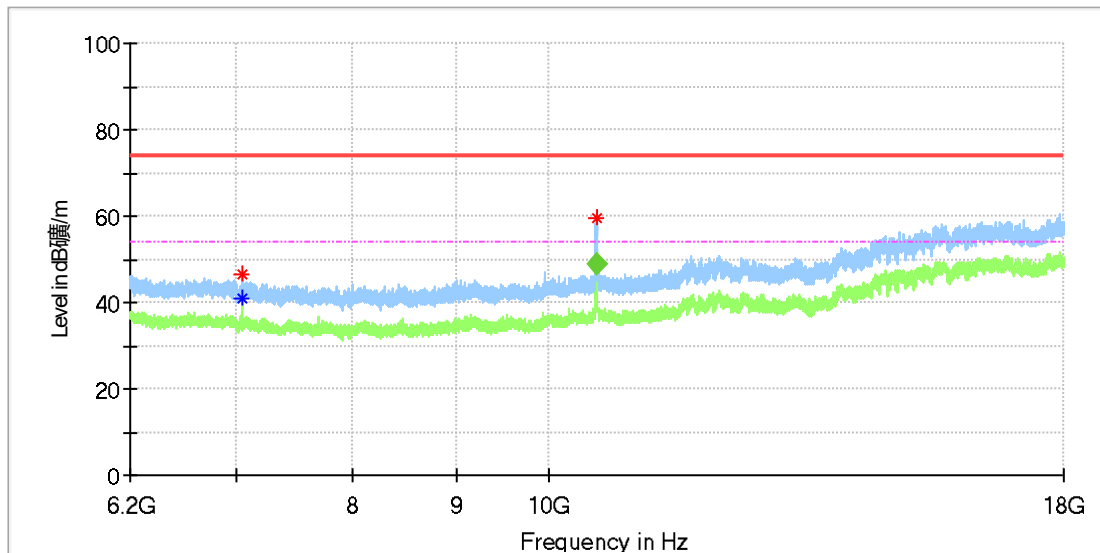
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Information

EUT Information

EUT Name: WIFI Module
Model: WK81R1501
Test Mode: WIFI 5G_11a_Ch56
Order No/Sample No: A004190689-003
Test Voltage: DC 3.3V
Remark: Temp 22 Humi:55%
Test Standard: FCC 15.407
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

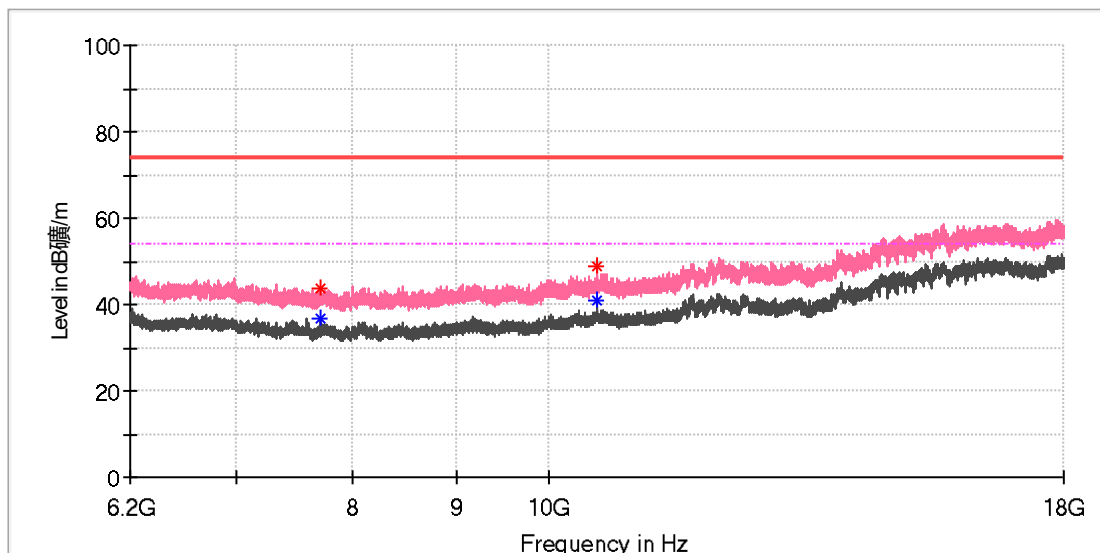
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7039.766667	46.69	---	74.00	27.31	150.0	H	135.0	8.5
7039.766667	---	41.12	54.00	12.88	150.0	H	135.0	8.5
10557.150000	59.32	---	74.00	14.68	150.0	H	112.0	12.0

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10556.505000	---	48.68	54.00	5.32	150.0	H	112.0	12.0

EUT Information

EUT Name:	WIFI Module
Model:	WK81R1501
Test Mode:	WIFI 5G_11a_Ch56
Order No/Sample No:	A004190689-003
Test Voltage:	DC 3.3V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

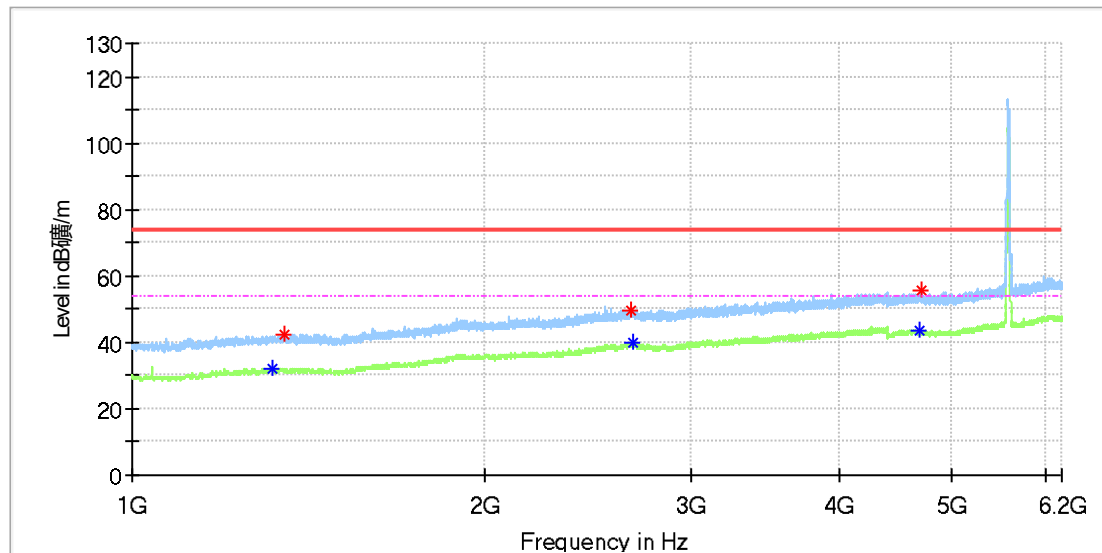
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7706.466667	---	36.63	54.00	17.37	150.0	V	132.0	8.7
7710.891667	43.87	---	74.00	30.13	150.0	V	257.0	8.7
10561.575000	48.66	---	74.00	25.34	150.0	V	190.0	12.0
10561.575000	---	40.84	54.00	13.16	150.0	V	190.0	12.0

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	WIFI Module
Model:	WK81R1501
Test Mode:	WIFI 5G_11a_Ch116
Order No/Sample No:	A004190689-003
Test Voltage:	DC 3.3V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1317.500000	---	32.30	54.00	21.70	150.0	H	262.0	2.9
1349.000000	42.33	---	74.00	31.67	150.0	H	230.0	3.1
2657.000000	49.84	---	74.00	24.16	150.0	H	16.0	10.2
2667.500000	---	40.15	54.00	13.85	150.0	H	251.0	10.2
4692.500000	---	43.77	54.00	10.23	150.0	H	190.0	13.5
4711.500000	55.47	---	74.00	18.53	150.0	H	65.0	13.5

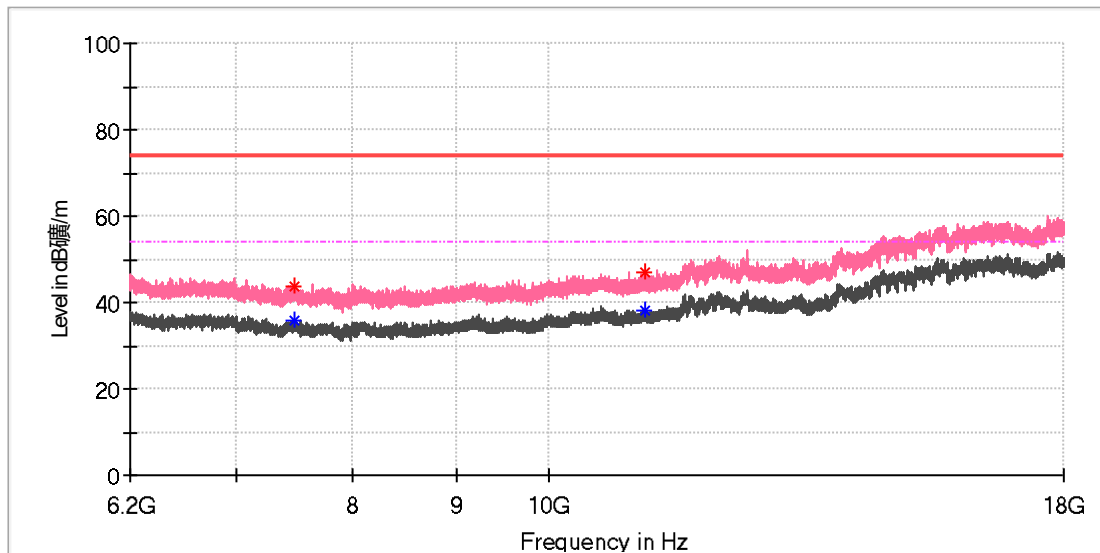
Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	

EUT Information

EUT Information

EUT Name:	WIFI Module
Model:	WK81R1501
Test Mode:	WIFI 5G_11a_Ch116
Order No/Sample No:	A004190689-003
Test Voltage:	DC 3.3V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7477.350000	43.88	---	74.00	30.12	150.0	V	122.0	8.6
7481.283333	---	35.95	54.00	18.05	150.0	V	337.0	8.7
11156.491667	46.96	---	74.00	27.04	150.0	V	302.0	12.5
11158.458333	---	38.33	54.00	15.67	150.0	V	83.0	12.5

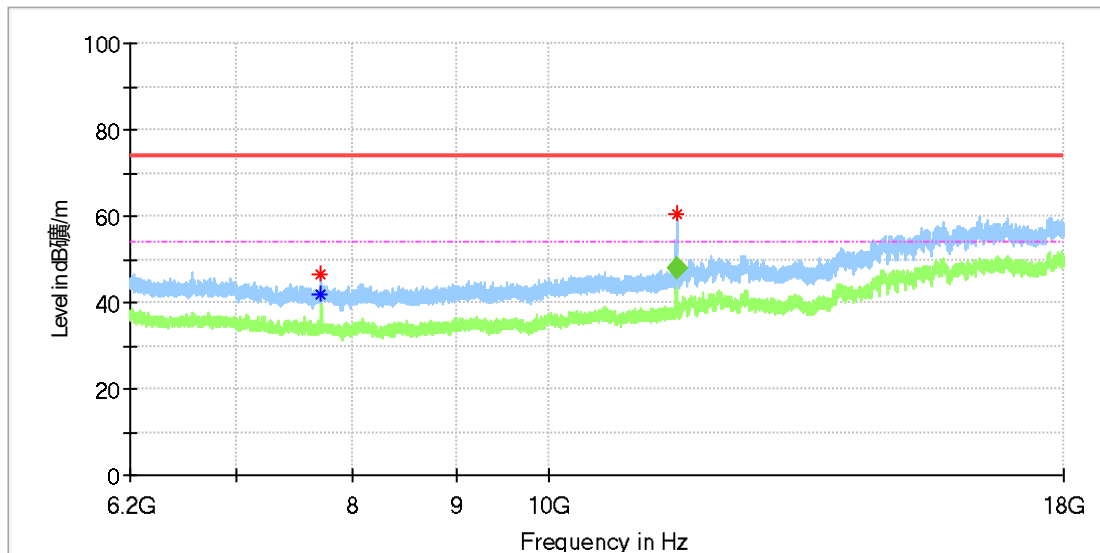
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

[illegible]

EUT Information

EUT Name: WIFI Module
Model: WK81R1501
Test Mode: WIFI 5G_11a_Ch157
Order No/Sample No: A004190689-003
Test Voltage: DC 3.3V
Remark: Temp 22 Humi:55%
Test Standard: FCC 15.407
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7712.858333	46.42	---	74.00	27.58	150.0	H	81.0	8.7
7713.350000	---	41.88	54.00	12.12	150.0	H	116.0	8.7
11571.458333	60.62	---	74.00	13.38	150.0	H	127.0	13.4

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
11566.457917	---	48.12	54.00	5.88	150.0	H	127.0	13.4

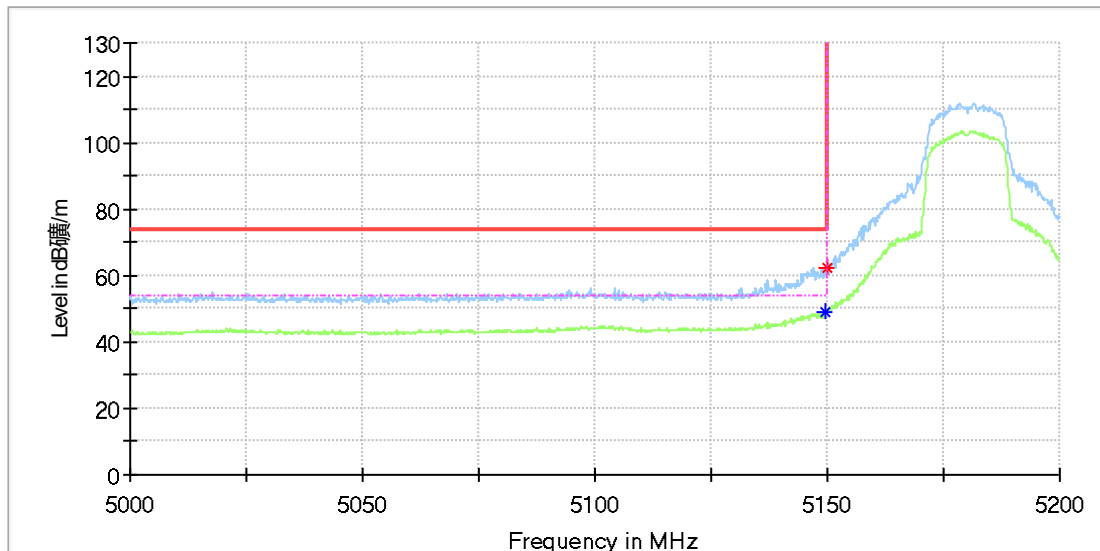
EUT Information

Appendix A.8: Test Results of Radiated Emissions in Restricted Bands

U-NII-1 Band

EUT Information

EUT Name:	WIFI Module
Model:	WK81R1501
Test Mode:	WIFI 5G_11a_Ch36
Order No/Sample No:	A004190689-003
Test Voltage:	DC 3.3V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

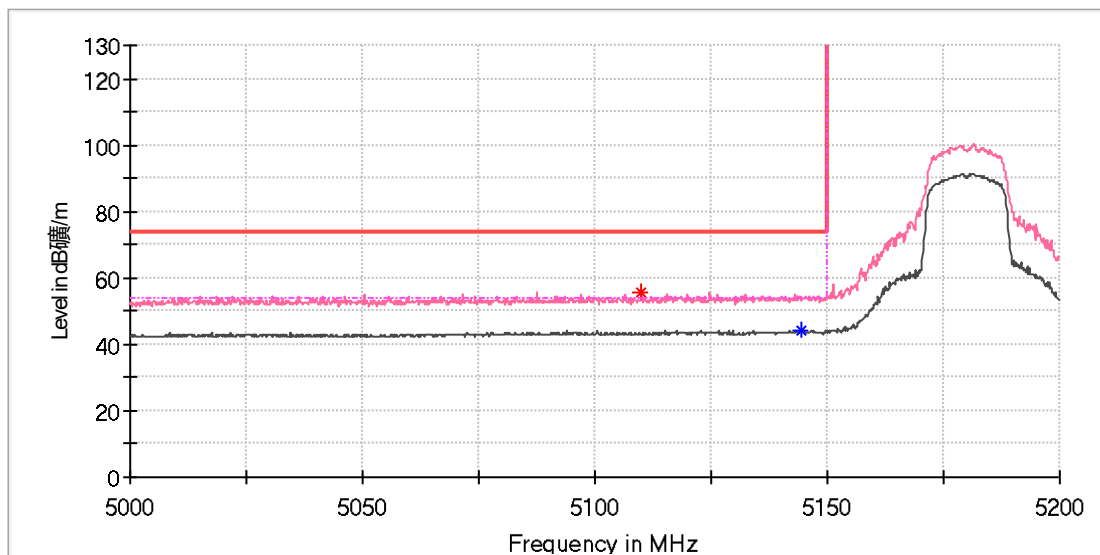
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5149.672222	---	49.22	54.00	4.78	150.0	H	84.0	13.9
5149.833333	62.20	---	74.00	11.80	150.0	H	92.0	13.9

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	WIFI Module
Model:	WK81R1501
Test Mode:	WIFI 5G_11a_Ch36
Order No/Sample No:	A004190689-003
Test Voltage:	DC 3.3V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

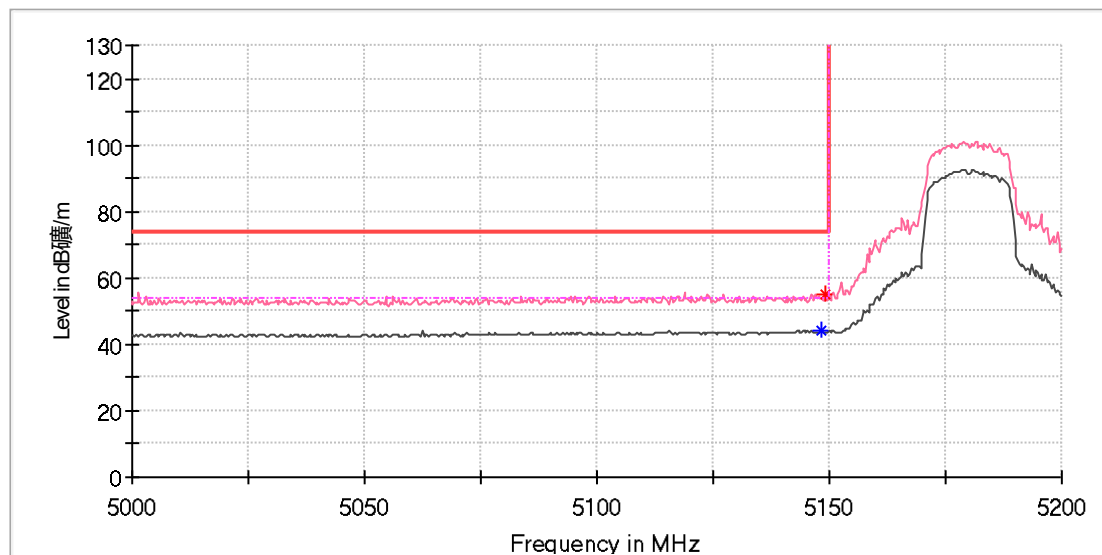
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5110.038889	55.74	---	74.00	18.26	150.0	V	289.0	13.8
5144.516667	---	44.13	54.00	9.87	150.0	V	324.0	13.9

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	WIFI Module
Model:	WK81R1501
Test Mode:	WIFI 5G_11n20_Ch36
Order No/Sample No:	A004190689-003
Test Voltage:	DC 3.3V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

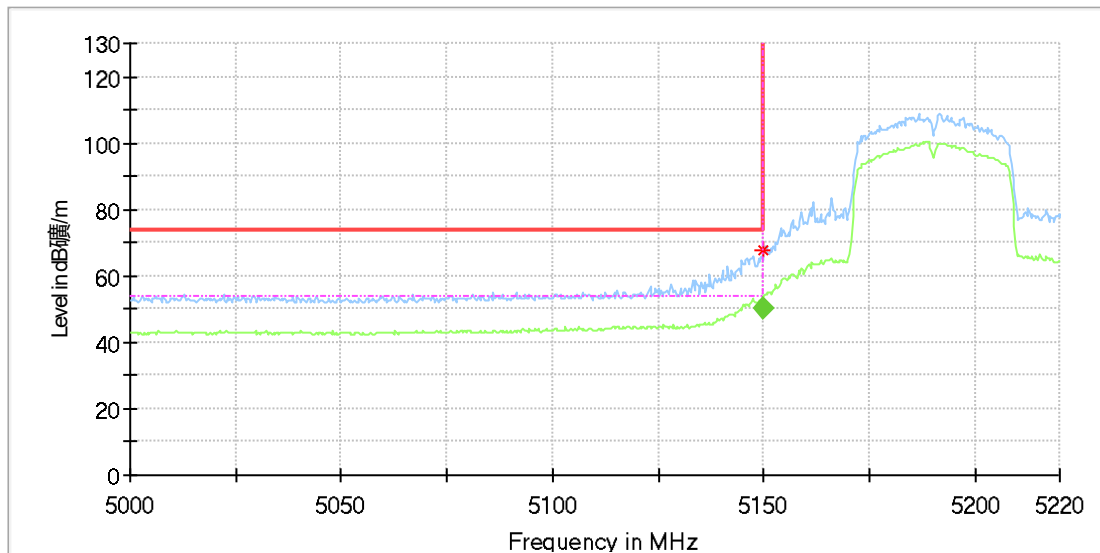
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5148.316667	---	44.09	54.00	9.91	150.0	V	20.0	13.9
5149.300000	55.07	---	74.00	18.93	150.0	V	98.0	13.9

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name: WIFI Module
Model: WK81R1501
Test Mode: WIFI 5G_11n40_Ch38
Order No/Sample No: A004190689-003
Test Voltage: DC 3.3V
Remark: Temp 22 Humi:55%
Test Standard: FCC 15.407
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5149.955556	67.95	---	74.00	6.05	150.0	H	80.0	13.9

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5150.000000	---	50.25	54.00	3.75	150.0	H	78.0	14.0

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.000000	100.000000	100.000000	100.000000	100.000000	100.000000		100.000000	100.000000

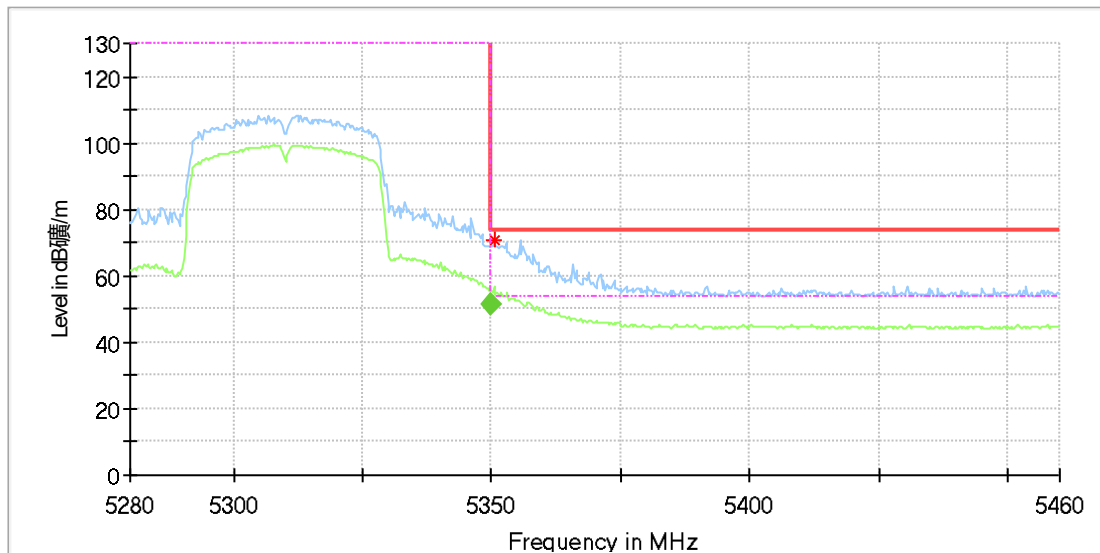
EUT Information

EUT Information

EUT Information

EUT Information

EUT Name: WIFI Module
Model: WK81R1501
Test Mode: WIFI 5G_11n40_Ch62
Order No/Sample No: A004190689-003
Test Voltage: DC 3.3V
Remark: Temp 22 Humi:55%
Test Standard: FCC 15.407
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

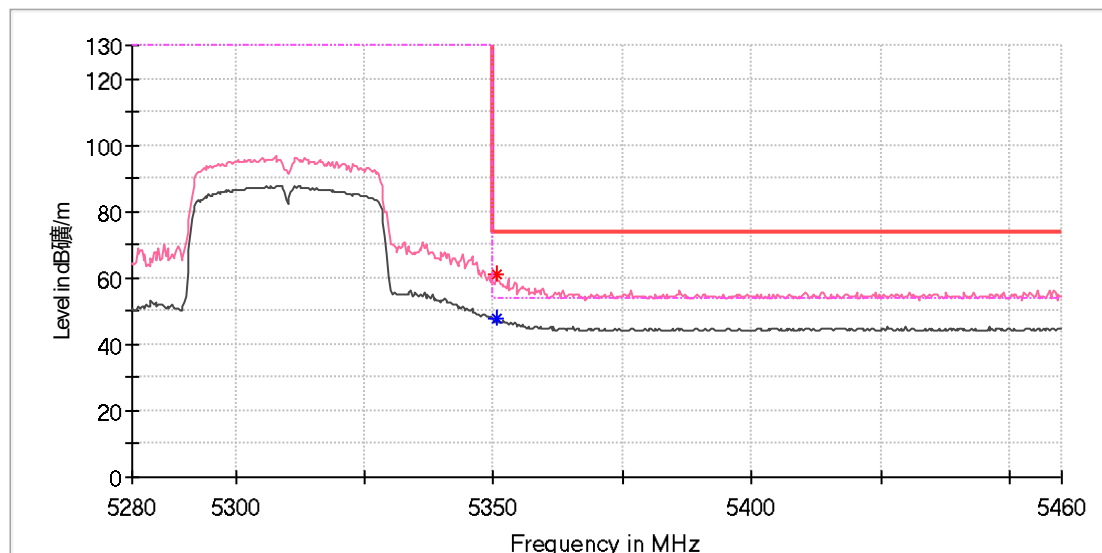
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5350.466667	70.98	---	74.00	3.02	150.0	H	90.0	14.8

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5350.000000	---	51.45	54.00	2.55	150.0	H	90.0	14.7

EUT Information

EUT Name:	WIFI Module
Model:	WK81R1501
Test Mode:	WIFI 5G_11n40_Ch62
Order No/Sample No:	A004190689-003
Test Voltage:	DC 3.3V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

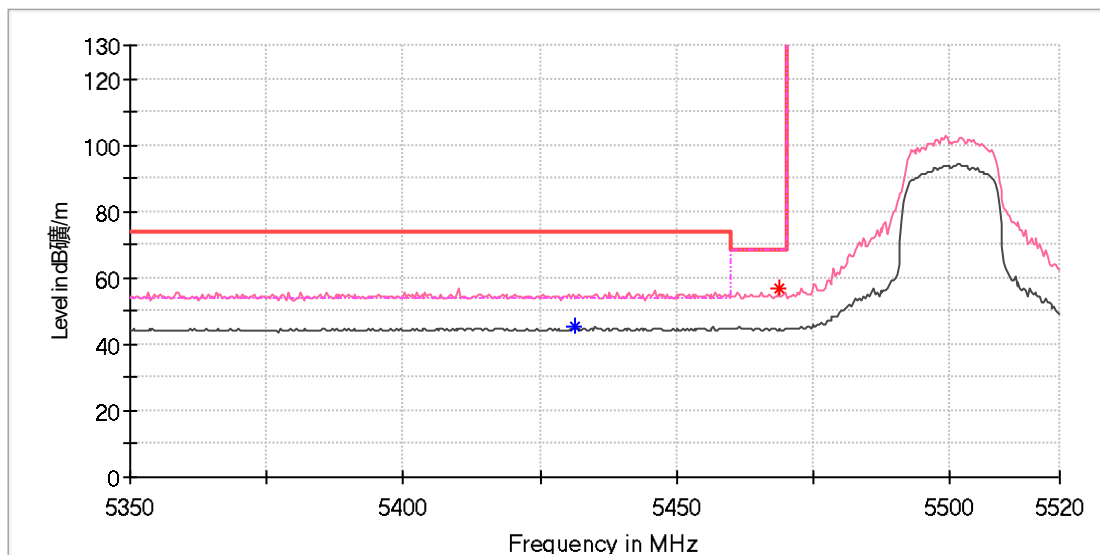
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5350.466667	61.13	---	74.00	12.87	150.0	V	156.0	14.8
5350.466667	---	47.64	54.00	6.36	150.0	V	156.0	14.8

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
----	----	----	----	----	----		----	-----

EUT Information

EUT Name:	WIFI Module
Model:	WK81R1501
Test Mode:	WIFI 5G_11a_Ch100
Order No/Sample No:	A004190689-003
Test Voltage:	DC 3.3V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

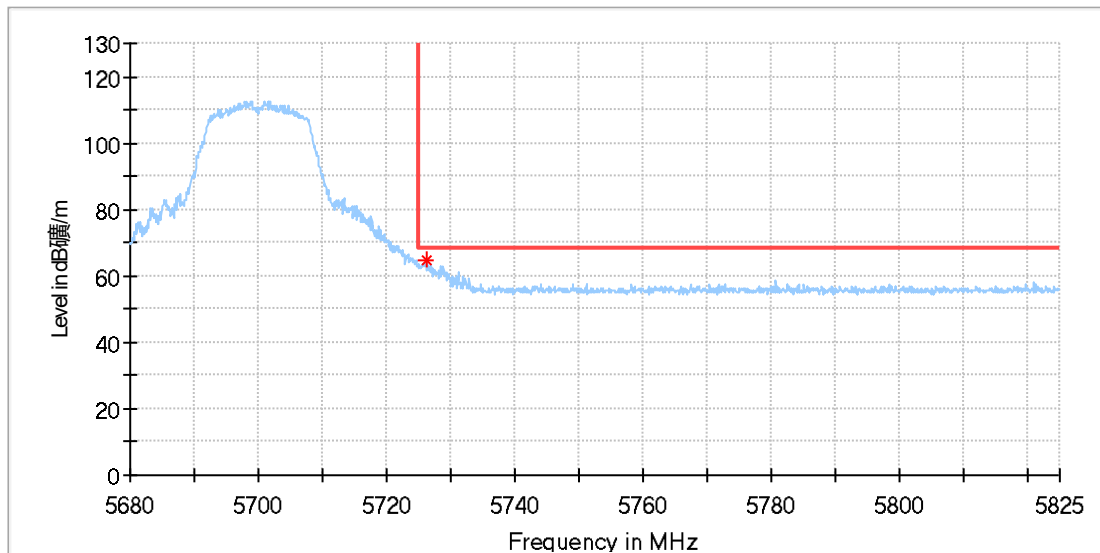
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5431.516667	---	45.46	54.00	8.54	150.0	V	53.0	15.0
5468.555556	57.02	---	68.20	11.18	150.0	V	143.0	15.1

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name: WIFI Module
Model: WK81R1501
Test Mode: WIFI 5G_11a_Ch140
Order No/Sample No: A004190689-003
Test Voltage: DC 3.3V
Remark: Temp 22 Humi:55%
Test Standard: FCC 15.407
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

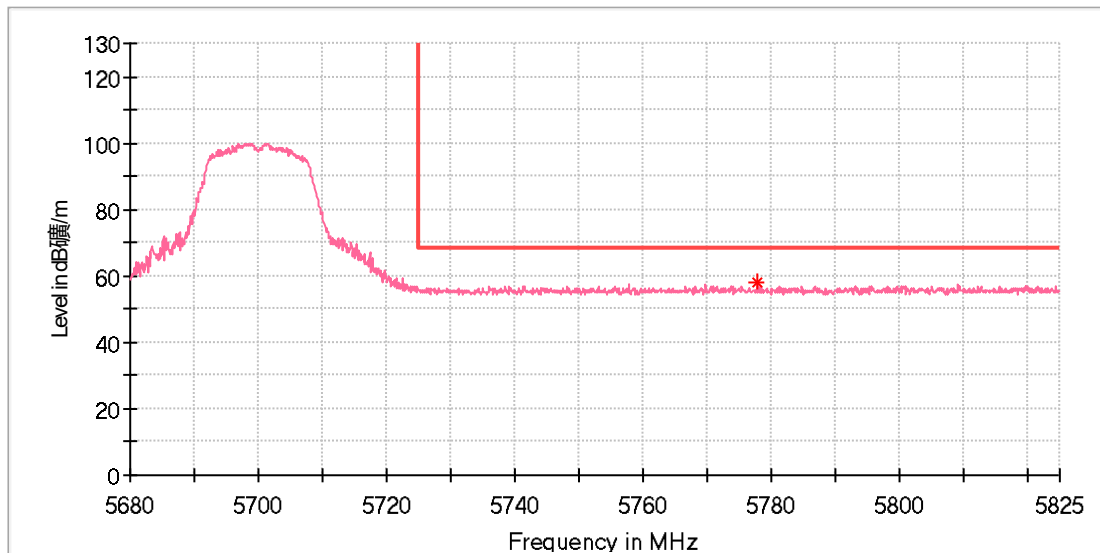
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5726.387500	64.92	68.20	3.28	150.0	H	96.0	15.4

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: WIFI Module
Model: WK81R1501
Test Mode: WIFI 5G_11a_Ch140
Order No/Sample No: A004190689-003
Test Voltage: DC 3.3V
Remark: Temp 22 Humi:55%
Test Standard: FCC 15.407
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5777.945833	57.80	68.20	10.40	150.0	V	103.0	15.5

Final Result

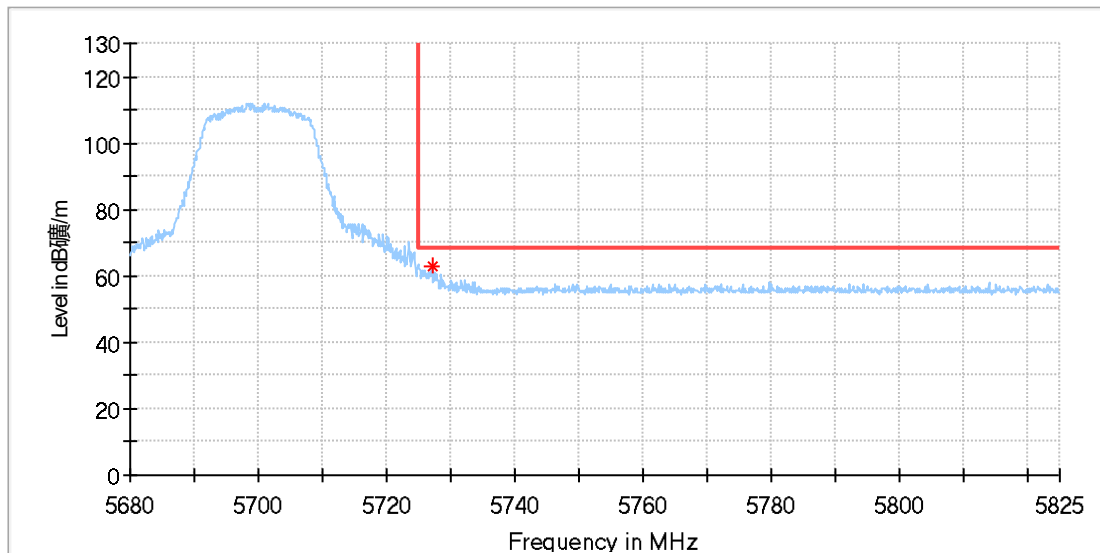
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Information

EUT Information

EUT Name: WIFI Module
Model: WK81R1501
Test Mode: WIFI 5G_11n20_Ch140
Order No/Sample No: A004190689-003
Test Voltage: DC 3.3V
Remark: Temp 22 Humi:55%
Test Standard: FCC 15.407
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

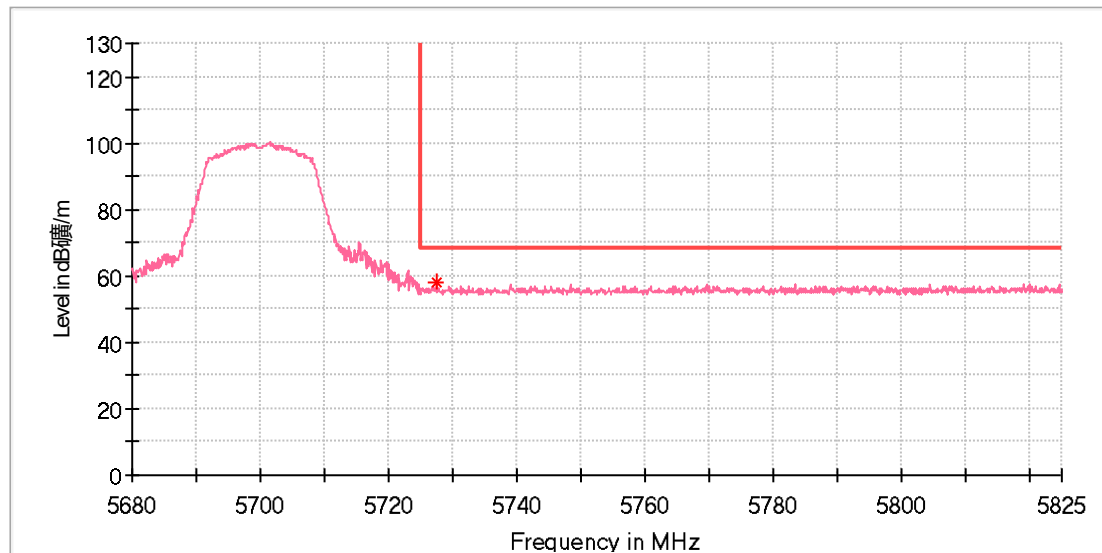
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5727.058333	63.05	68.20	5.15	150.0	H	119.0	15.4

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name:	WIFI Module
Model:	WK81R1501
Test Mode:	WIFI 5G_11n20_Ch140
Order No/Sample No:	A004190689-003
Test Voltage:	DC 3.3V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5727.441667	57.92	68.20	10.28	150.0	V	277.0	15.4

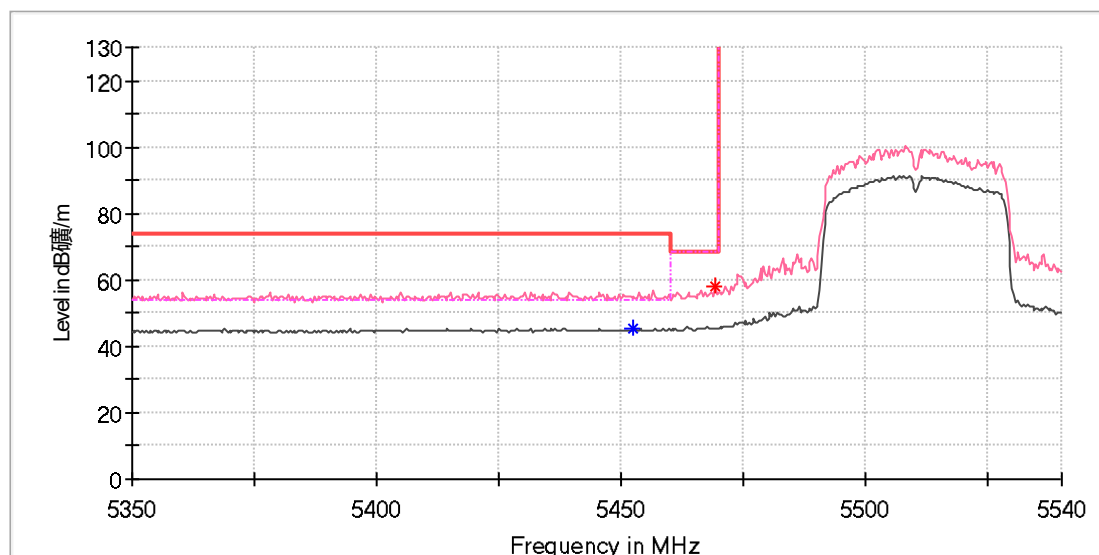
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Information

EUT Name:	WIFI Module
Model:	WK81R1501
Test Mode:	WIFI 5G_11n40_Ch102
Order No/Sample No:	A004190689-003
Test Voltage:	DC 3.3V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

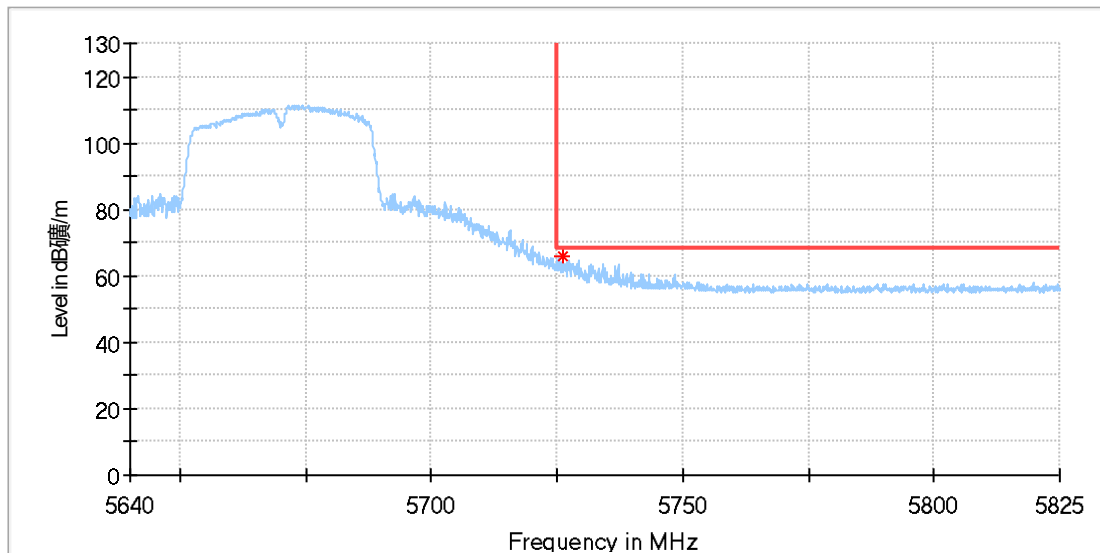
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5452.494445	---	45.39	54.00	8.61	150.0	V	300.0	15.0
5469.211111	58.07	---	68.20	10.13	150.0	V	142.0	15.1

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.7	122.0	118.0	120.0	2.0	100.0	V	135.0	0.0

EUT Information

EUT Name:	WIFI Module
Model:	WK81R1501
Test Mode:	WIFI 5G_11n40_Ch134
Order No/Sample No:	A004190689-003
Test Voltage:	DC 3.3V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

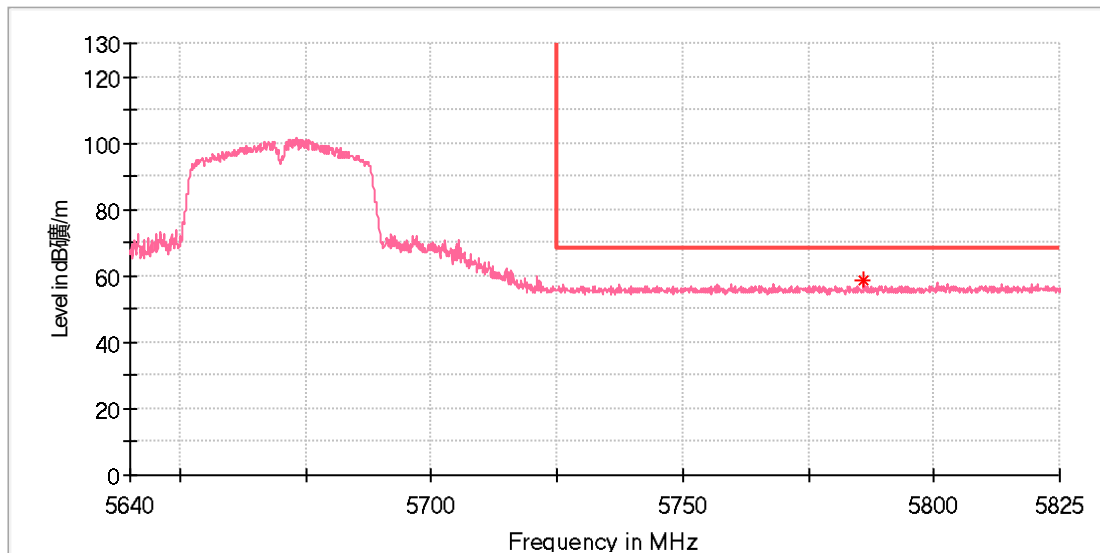
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5726.195833	65.84	68.20	2.36	150.0	H	105.0	15.4

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name:	WIFI Module
Model:	WK81R1501
Test Mode:	WIFI 5G_11n40_Ch134
Order No/Sample No:	A004190689-003
Test Voltage:	DC 3.3V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5785.995833	58.42	68.20	9.78	150.0	V	62.0	15.5

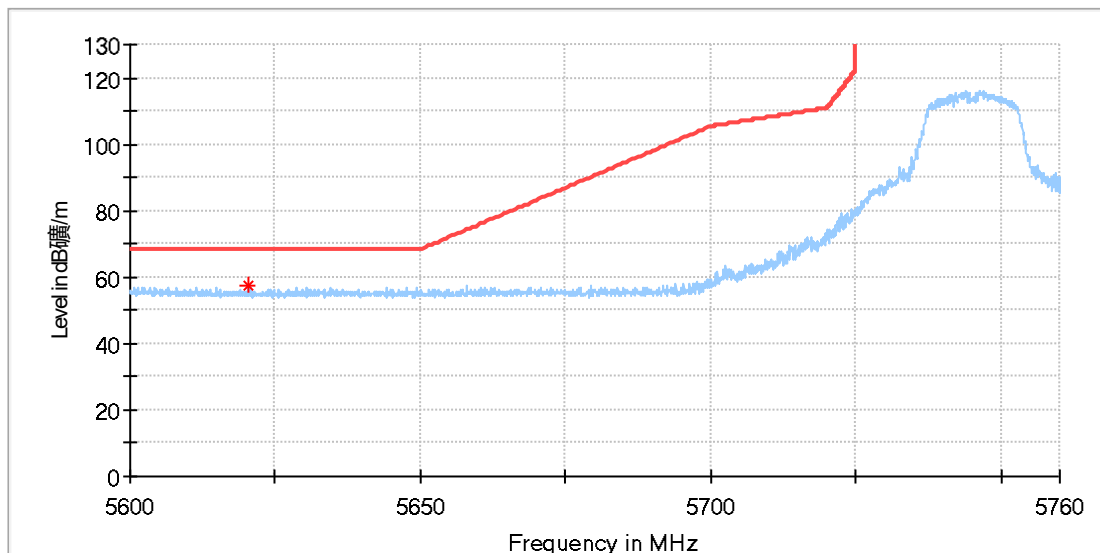
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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U-NII-3 Band

EUT Information

EUT Name:	WIFI Module
Model:	WK81R1501
Test Mode:	WIFI 5G_11a_Ch149
Order No/Sample No:	A004190689-003
Test Voltage:	DC 3.3V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

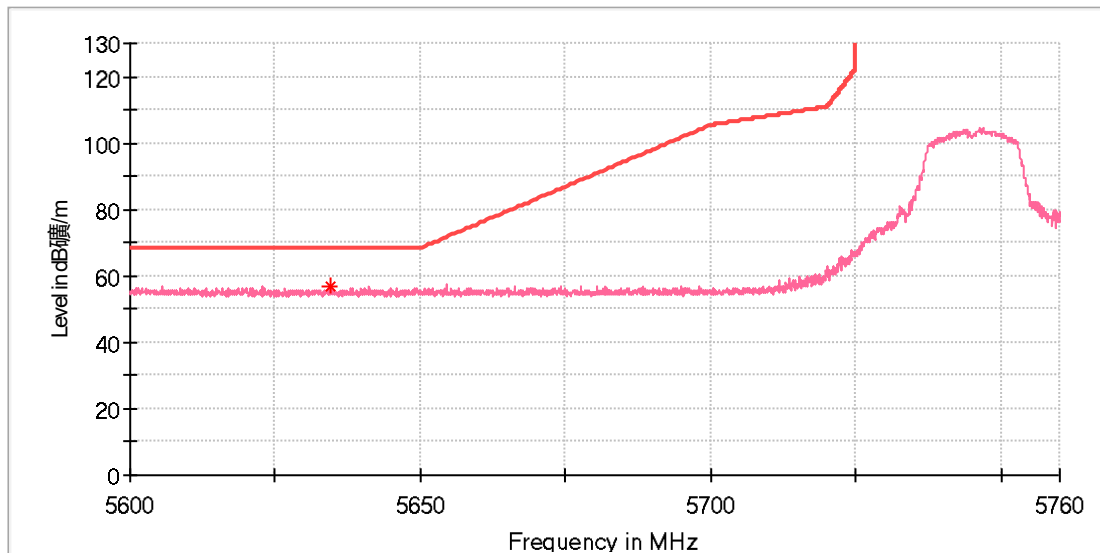
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5620.411111	57.17	68.20	11.03	150.0	H	76.0	15.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name:	WIFI Module
Model:	WK81R1501
Test Mode:	WIFI 5G_11a_Ch149
Order No/Sample No:	A004190689-003
Test Voltage:	DC 3.3V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

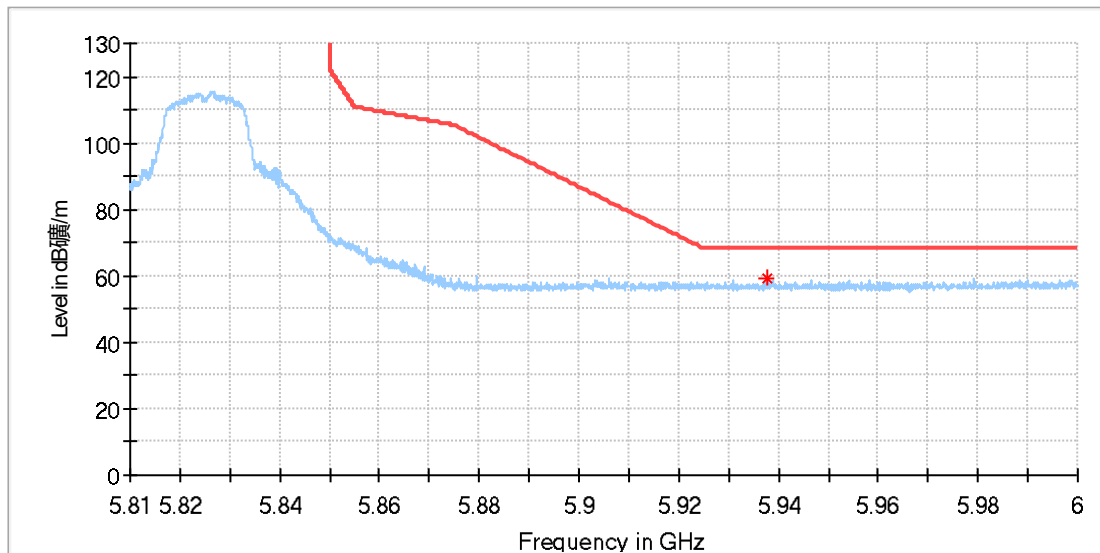
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5634.527778	56.81	68.20	11.39	150.0	V	217.0	15.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name: WIFI Module
Model: WK81R1501
Test Mode: WIFI 5G_11a_Ch165
Order No/Sample No: A004190689-003
Test Voltage: DC 3.3V
Remark: Temp 22 Humi:55%
Test Standard: FCC 15.407
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

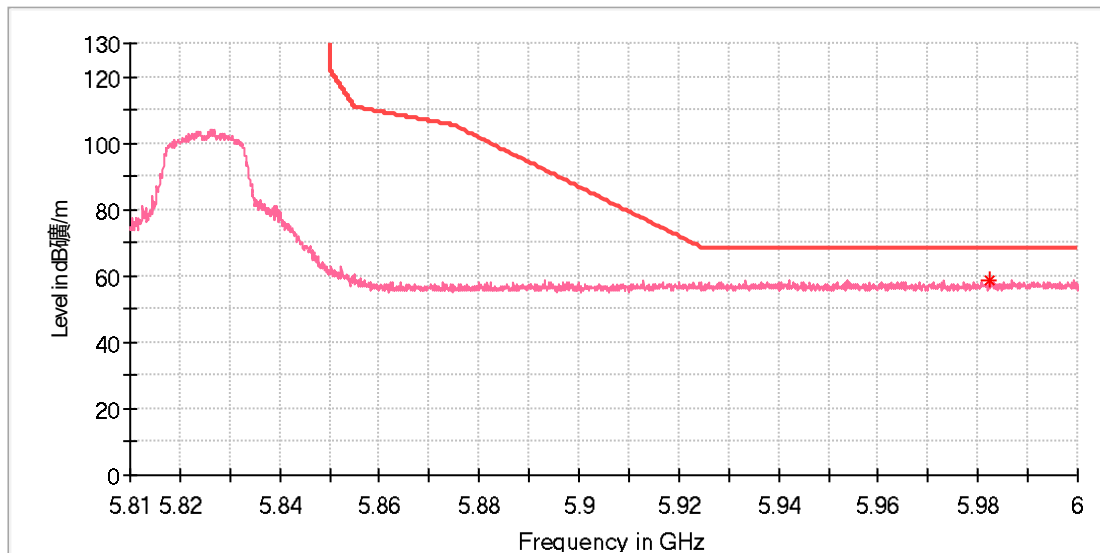
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5937.895833	59.11	68.20	9.09	150.0	H	188.0	16.2

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name: WIFI Module
Model: WK81R1501
Test Mode: WIFI 5G_11a_Ch165
Order No/Sample No: A004190689-003
Test Voltage: DC 3.3V
Remark: Temp 22 Humi:55%
Test Standard: FCC 15.407
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

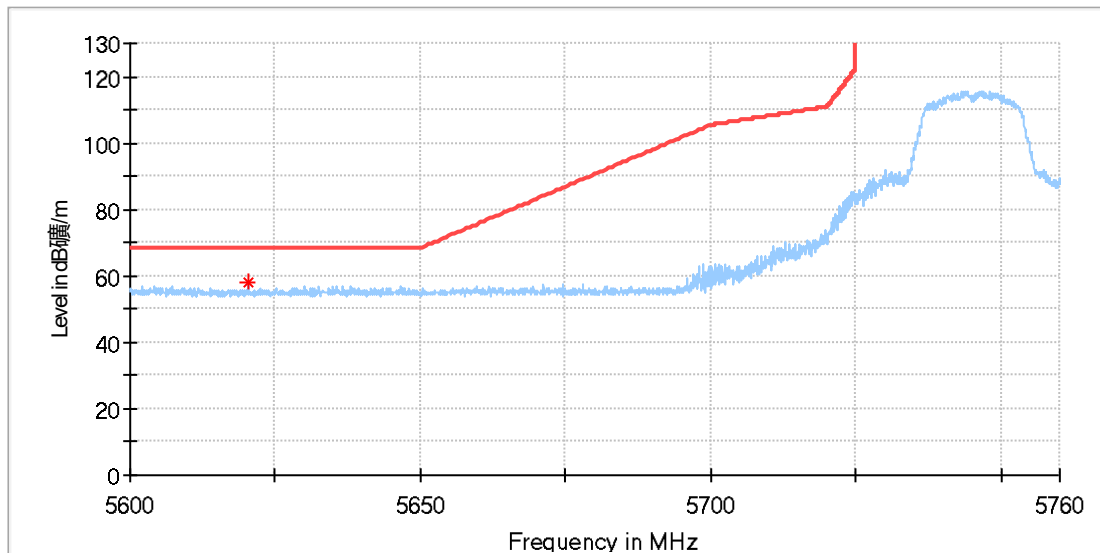
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5982.506945	58.90	68.20	9.30	150.0	V	14.0	16.4

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name:	WIFI Module
Model:	WK81R1501
Test Mode:	WIFI 5G_11n20_Ch149
Order No/Sample No:	A004190689-003
Test Voltage:	DC 3.3V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

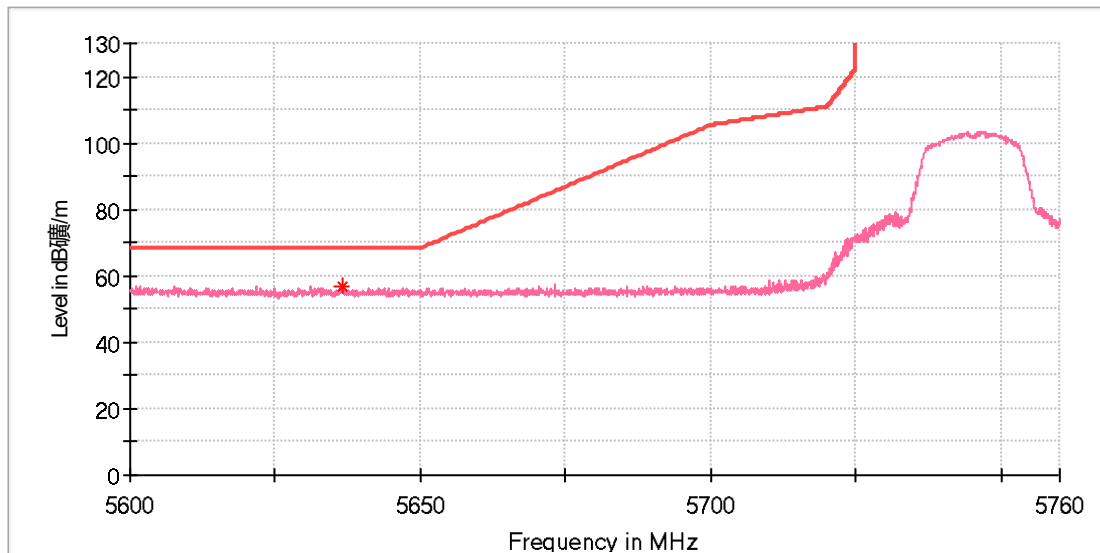
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5620.411111	57.83	68.20	10.37	150.0	H	244.0	15.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name:	WIFI Module
Model:	WK81R1501
Test Mode:	WIFI 5G_11n20_Ch149
Order No/Sample No:	A004190689-003
Test Voltage:	DC 3.3V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

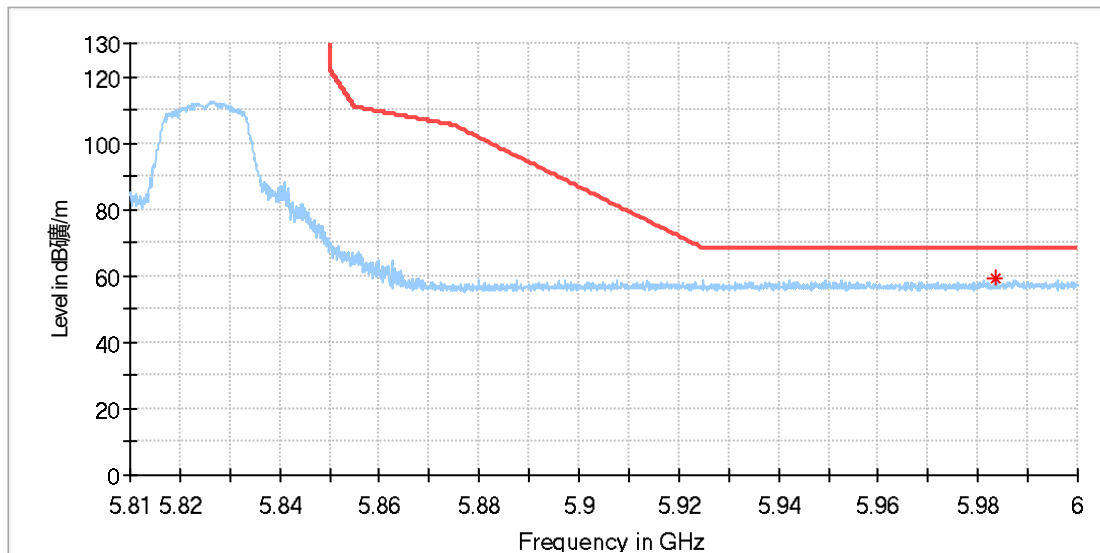
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5636.544445	56.78	68.20	11.42	150.0	V	176.0	15.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: WIFI Module
Model: WK81R1501
Test Mode: WIFI 5G_11n20_Ch165
Order No/Sample No: A004190689-003
Test Voltage: DC 3.3V
Remark: Temp 22 Humi:55%
Test Standard: FCC 15.407
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

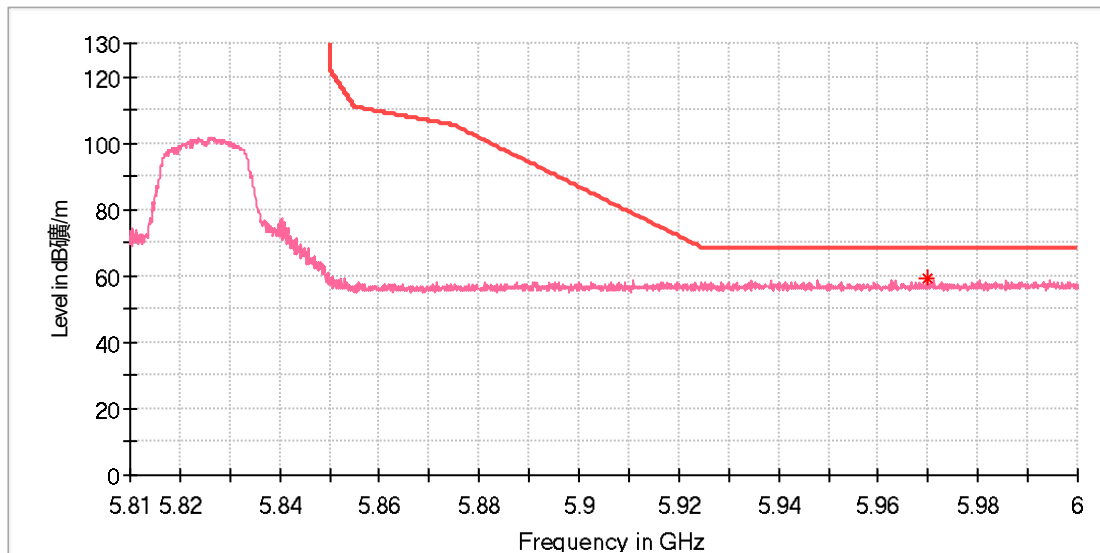
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5983.347222	59.22	68.20	8.98	150.0	H	113.0	16.4

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: WIFI Module
Model: WK81R1501
Test Mode: WIFI 5G_11n20_Ch165
Order No/Sample No: A004190689-003
Test Voltage: DC 3.3V
Remark: Temp 22 Humi:55%
Test Standard: FCC 15.407
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

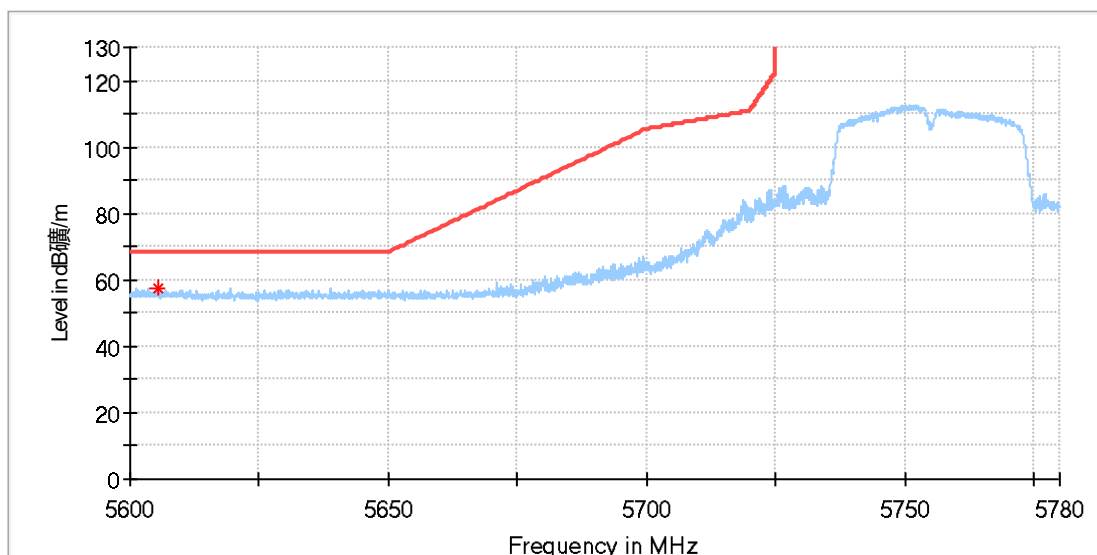
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5969.673611	59.05	68.20	9.15	150.0	V	159.0	16.4

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name: WIFI Module
Model: WK81R1501
Test Mode: WIFI 5G_11n40_Ch151
Order No/Sample No: A004190689-003
Test Voltage: DC 3.3V
Remark: Temp 22 Humi:55%
Test Standard: FCC 15.407
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

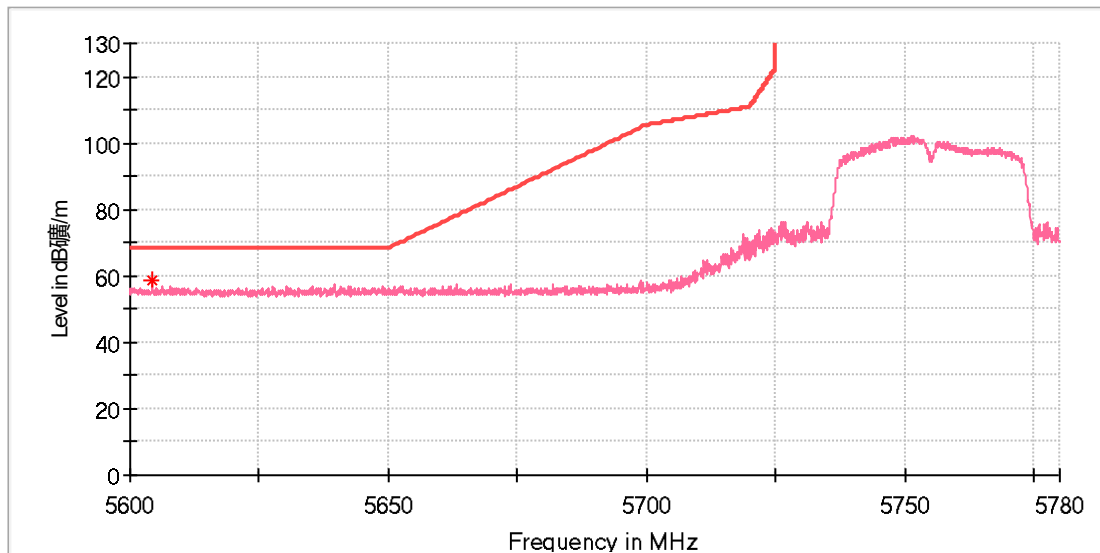
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5605.438889	57.52	68.20	10.68	150.0	H	62.0	15.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name: WIFI Module
Model: WK81R1501
Test Mode: WIFI 5G_11n40_Ch151
Order No/Sample No: A004190689-003
Test Voltage: DC 3.3V
Remark: Temp 22 Humi:55%
Test Standard: FCC 15.407
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

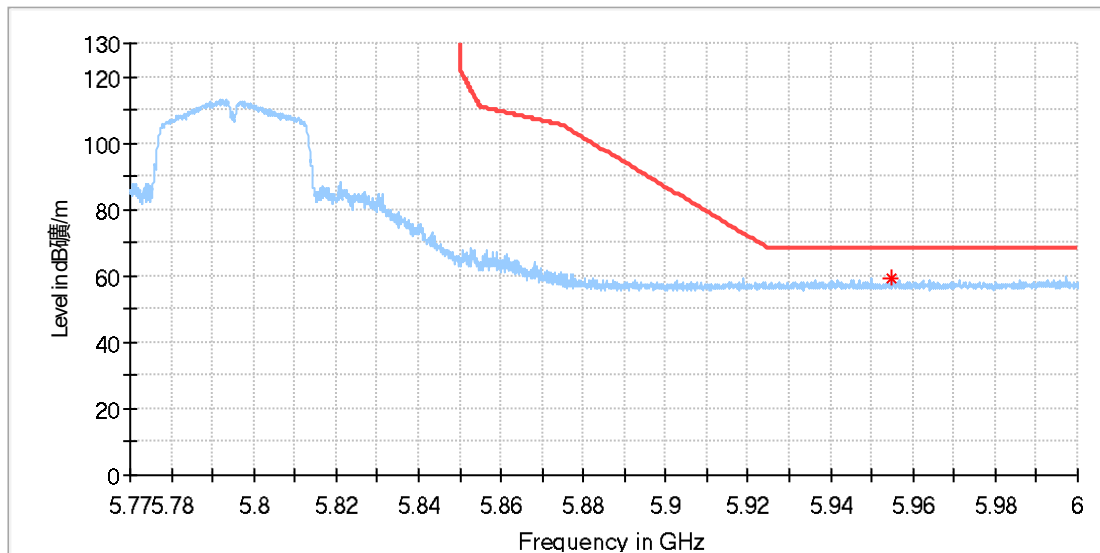
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5604.338889	58.65	68.20	9.55	150.0	V	134.0	15.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name: WIFI Module
Model: WK81R1501
Test Mode: WIFI 5G_11n40_Ch159
Order No/Sample No: A004190689-003
Test Voltage: DC 3.3V
Remark: Temp 22 Humi:55%
Test Standard: FCC 15.407
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

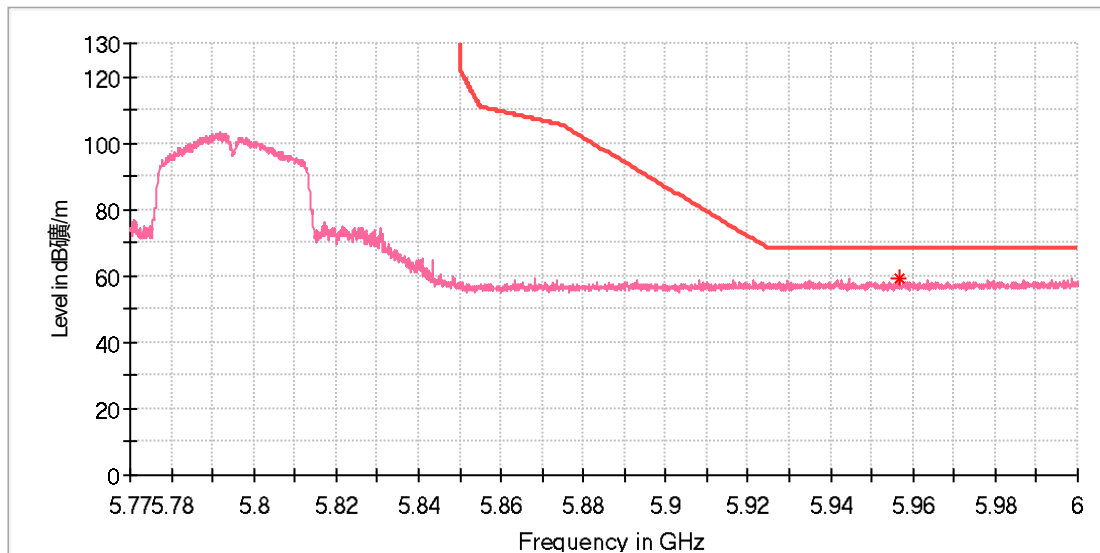
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5954.777778	59.32	68.20	8.88	150.0	H	358.0	16.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name: WIFI Module
Model: WK81R1501
Test Mode: WIFI 5G_11n40_Ch159
Order No/Sample No: A004190689-003
Test Voltage: DC 3.3V
Remark: Temp 22 Humi:55%
Test Standard: FCC 15.407
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5956.687500	59.25	68.20	8.95	150.0	V	217.0	16.3

Final Result

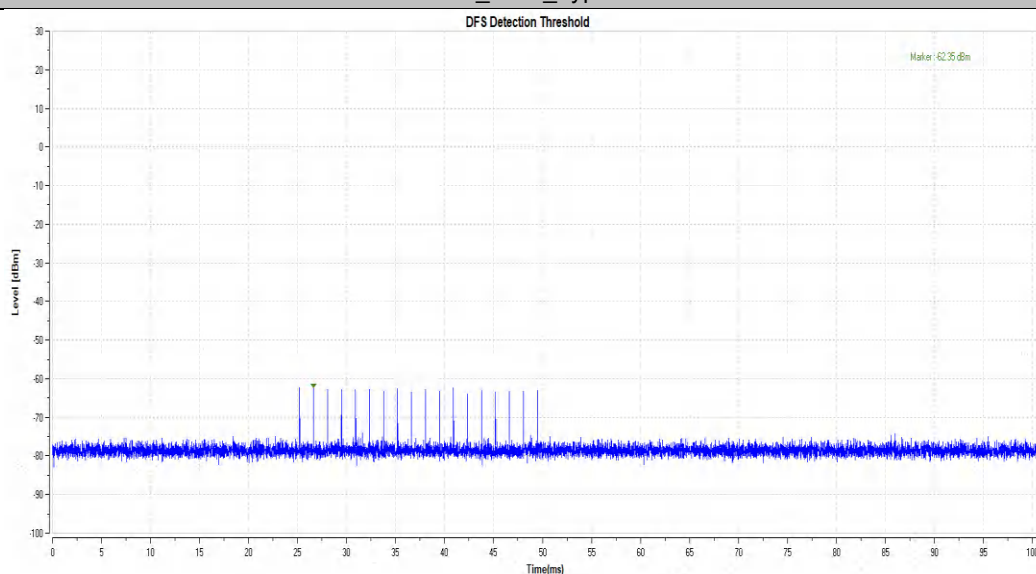
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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Appendix A.9: Test Results of Dynamic Frequency Selection (DFS)

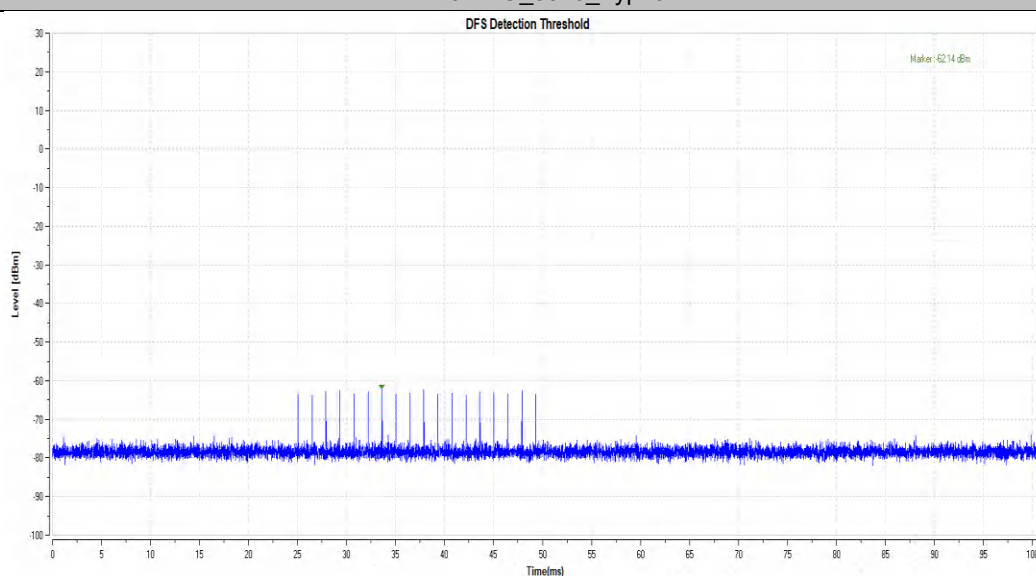
DFS Detection Thresholds

TestMode	Frequency[dbm]	Radar Type	Result	Limit[dbm]	Verdict
11A	5260	Type0	-62.35	-62.00	PASS
11N40SISO	5510	Type0	-62.14	-62.00	PASS

11A_5260_Type0



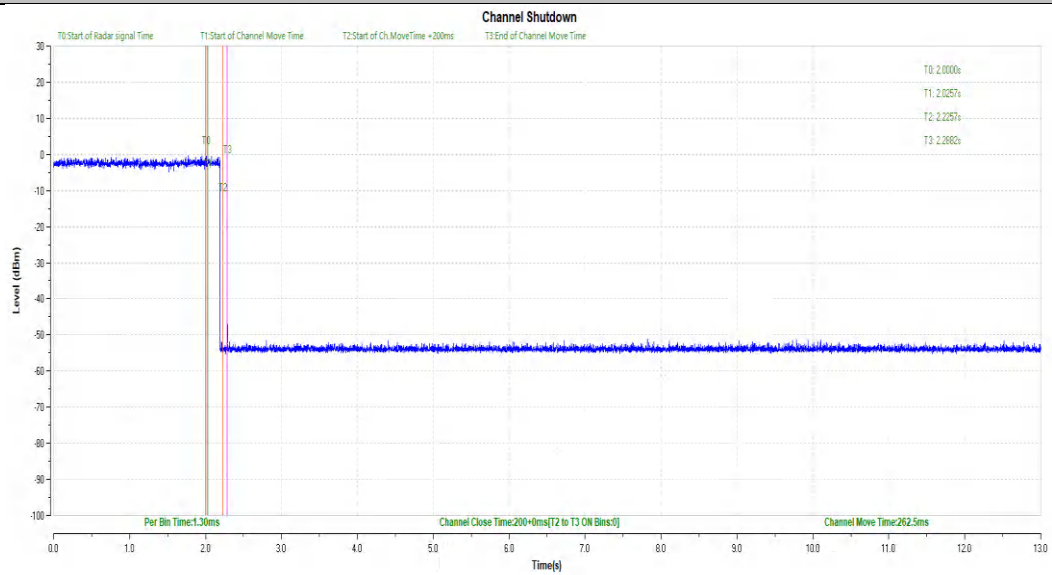
11N40SISO_5510_Type0



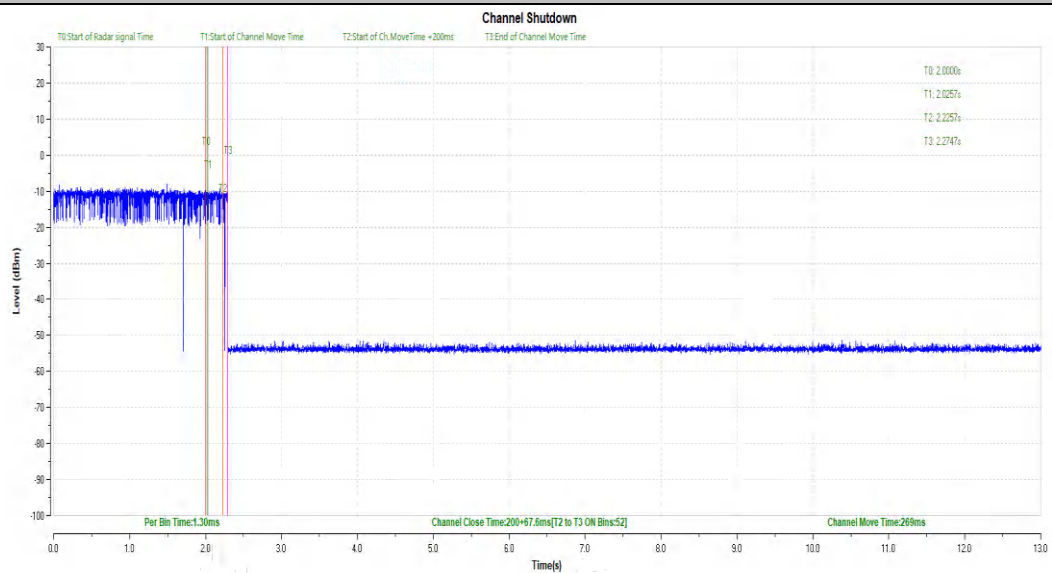
Channel Move Time and Channel Closing Transmission Time

TestMode	Frequency[MHz]	CCTT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11A	5260	200+0	200+60	262.5	10000	PASS
11N40SISO	5510	200+47.6	200+60	249	10000	PASS

11A_5260



11N40SISO_5510

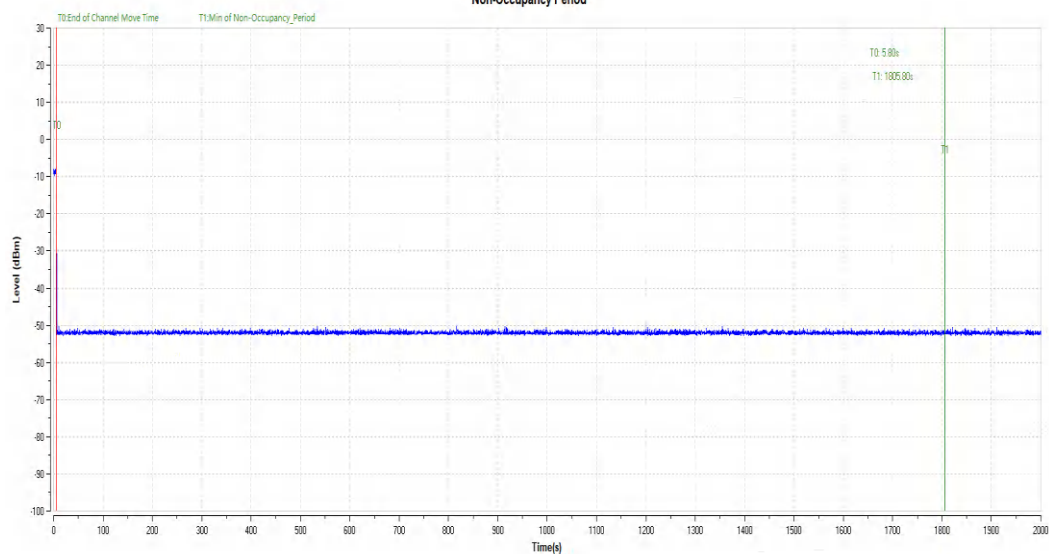


Non-Occupancy Period

TestMode	Frequency[MHz]	Result	Limit[s]	Verdict
11A	5260	see test graph	≥1800	PASS
11N40SISO	5510	see test graph	≥1800	PASS

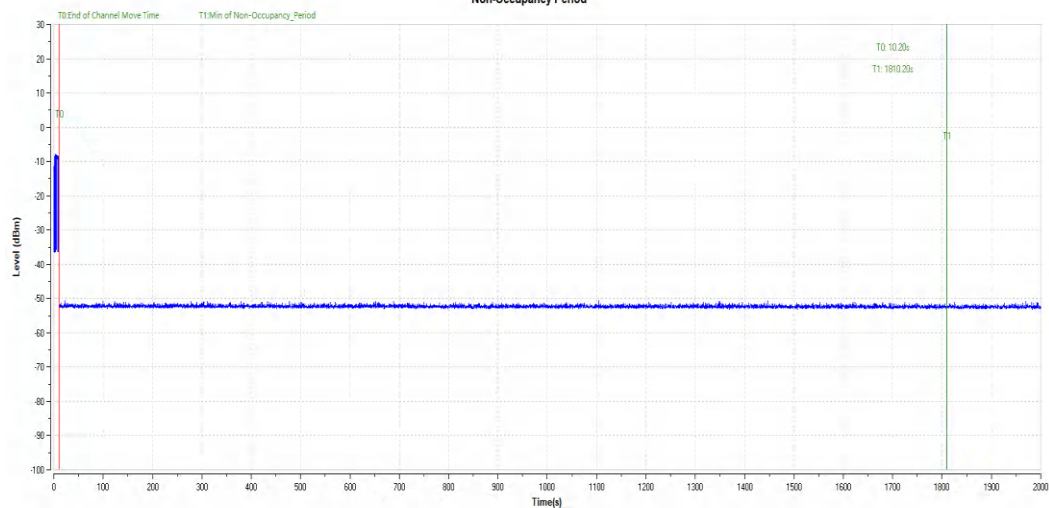
11A_5260

Non-Occupancy Period



11N40SISO_5510

Non-Occupancy Period

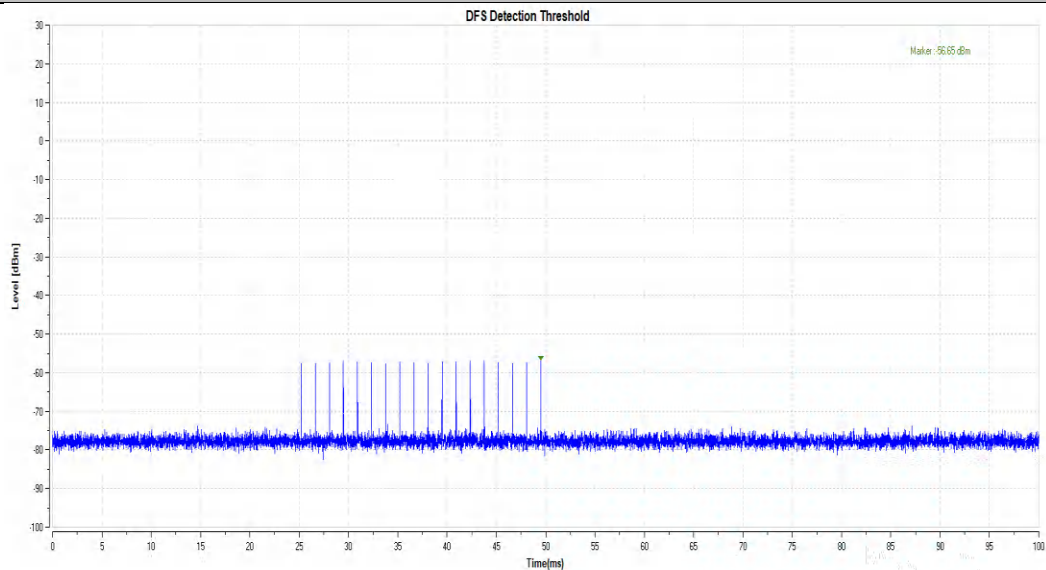


DFS Detection Thresholds

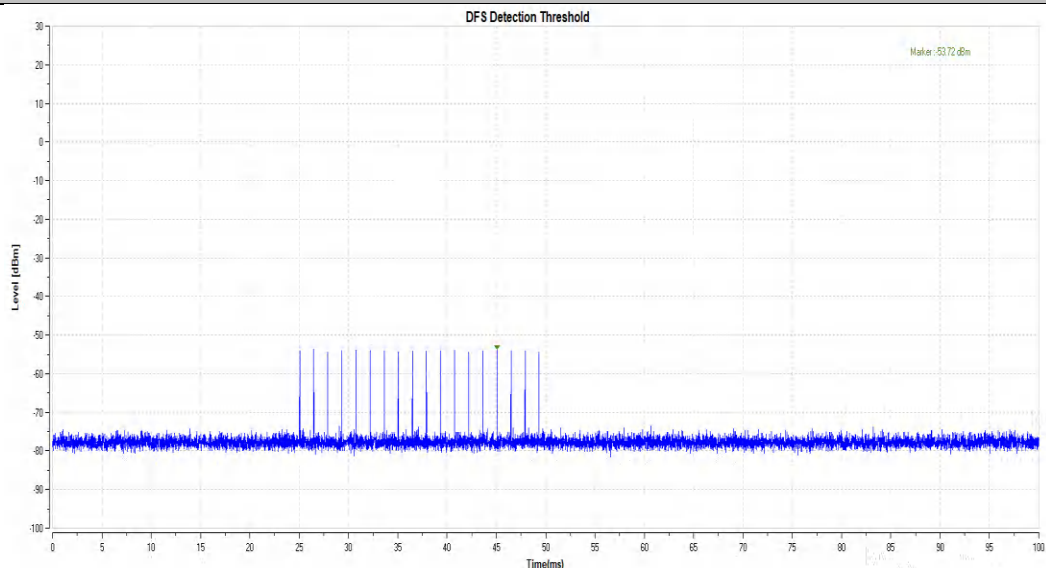
Devices operating in the 5600-5650 MHz band shall use the ETSI EN 301 893 test 835 procedure for demonstrating compliance with the DFS radar detection requirements

TestMode	Channel	Radar Type	Result	Limit[dbm]	Verdict
11A	5620	Reference	-56.65	-56.50	PASS
11N40SISO	5630	Reference	-53.72	-53.50	PASS

11A_5620_Reference



11N40SISO_5630_Reference

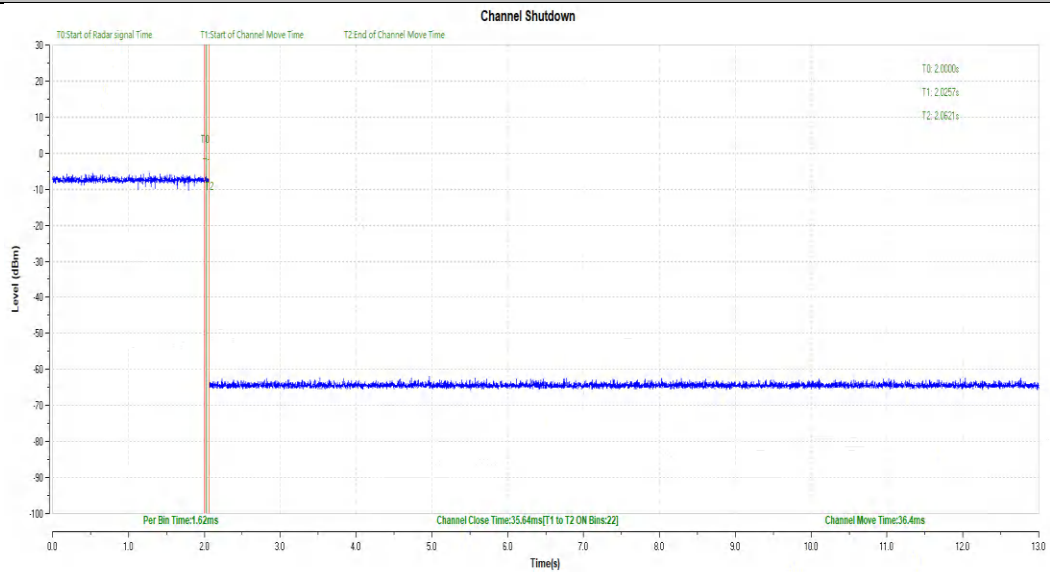


Channel Move Time and Channel Closing Transmission Time

Devices operating in the 5600-5650 MHz band shall use the ETSI EN 301 893 test 835 procedure for demonstrating compliance with the DFS radar detection requirements

TestMode	Channel	CCT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11A	5620	35.64	1000	36.4	10000	PASS
11N40SISO	5630	22.68	1000	21.8	10000	PASS

11A_5620



11N40SISO_5630

