

FCC Part 15.407 TEST REPORT

For

Renesas Design Korea Inc.

7th SiliconPark, 35 Pangyo-ro 255 beon-gil Bundang-gu, Seongnam-si, Gyeonggi-do,
13486

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Revision History

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TABLE OF CONTENTS

1	General Information	5
1.1	Product Description for Equipment under Test (EUT).....	5
1.2	Objective.....	6
1.3	Test Methodology	6
1.4	Statement of Compliance.....	6
1.5	Measurement Uncertainty.....	7
1.6	Environmental Conditions	7
1.7	Test Facility	7
2	System Test Configuration	8
2.1	Description of Test Configuration	8
2.2	EUT Exercise Software	9
2.3	Equipment Modifications	10
2.4	Test Mode	10
2.5	Support Equipment List and Details.....	10
2.6	External Cable List and Details	10
2.7	Block Diagram of Test Setup	11
2.8	Duty Cycle	13
3	Summary of Test Results.....	16
4	Test Equipment List and Details	17
5	FCC §15.203 – Antenna Requirements.....	18
5.1	Applicable Standard.....	18
5.2	Antenna Information.....	18
6	FCC§15.207 – AC Line Conducted Emissions	19
6.1	Applicable Standard.....	19
6.2	EUT Setup	19
6.3	EMI Test Receiver Setup.....	20
6.4	Test Procedure	20
6.5	Factor & Over Limit Calculation.....	20
6.6	Test Results.....	21
7	FCC §15.209, §15.205, §15.407(b) – Spurious Emissions	23
7.1	Applicable Standard.....	23
7.2	EUT Setup	24
7.3	EMI Test Receiver & Spectrum Analyzer Setup.....	26
7.4	Test Procedure	26
7.5	Factor & Over Limit Calculation.....	26
7.6	Test Results.....	27
8	FCC §15.407(a)(e) – Emission Bandwidth And Occupied Bandwidth	75
8.1	Applicable Standard.....	75
8.2	Test Procedure	75
8.3	Test Results.....	77
9	FCC §15.407(a) – Maximum Output Power.....	131
9.1	Applicable Standard.....	131
9.2	Test Procedure	132

9.3 Test Results..... 133

10 FCC §15.407(a) – Power Spectral Density 135

10.1 Applicable Standard..... 135

10.2 Test Procedure 136

10.3 Test Results..... 137

1 General Information

1.1 Product Description for Equipment under Test (EUT)

Applicant	Renesas Design Korea Inc.
	7th SiliconPark, 35 Pangyo-ro 255 beon-gil Bundang-gu, Seongnam-si, Gyeonggi-do, 13486
Brand(Trade) Name	Renesas
Product (Equipment)	RRQ61051 Module
Main Model Name	RRQ61051-008
Series Models	N/A
Model Discrepancy	N/A
Frequency Range	IEEE 802.11a/n HT20/ac VHT20/ax HE20 Mode:5150 ~ 5250 MHz IEEE 802.11a/n HT20/ac VHT20/ax HE20 Mode:5250 ~ 5350 MHz IEEE 802.11a/n HT20/ac VHT20/ax HE20 Mode:5470 ~ 5725 MHz IEEE 802.11a/n HT20/ac VHT20/ax HE20 Mode:5725 ~ 5850 MHz
Maximum Conducted Average Output Power	5150-5250 MHz: 15.48 dBm 5250-5350 MHz: 15.68 dBm 5470-5725 MHz: 17.18 dBm 5725-5850 MHz: 14.17 dBm
Modulation Technique	IEEE 802.11a Mode: OFDM IEEE 802.11n HT20 Mode: OFDM IEEE 802.11ac VHT20 Mode: OFDM IEEE 802.11ax HE20 Mode: OFDMA
Power Operation (Voltage Range)	☐ AC 120V/60Hz ☐ Adapter ☐ By AC Power Cord ☐ PoE
	☐ DC Type ☐ Battery ☐ DC Power Supply ☐ External from USB Cable ☐ External DC Adapter
	☒ 3.3Vdc
Received Date	Aug 01, 2025
Date of Test	Sep. 25, 2025 ~ Jan. 16, 2026

Note:

*All measurement and test data in this report was gathered from production sample serial number:

RLK250801004-01(Assigned by BACL, Linkou Laboratory).

**This device cannot run both WIFI 2.4G and WIFI 5G simultaneously.

***802.11ax mode only support full RU

1.2 Objective

This report is prepared on behalf of Renesas Design Korea Inc. in accordance with Part 2, Subpart J, Part 15, Subparts A, and E of the Federal Communication Commission's rules.

1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2020+Cor.1-2023, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices. KDB 789033 D02 General UNII Test Procedures New Rules v02r01

1.4 Statement of Compliance

Decision Rule: No, (The test results do not include MU judgment)

1. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Linkou Laboratory).
2. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.
3. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.
4. The determination of the test results does not require consideration of the uncertainty of the measurement, unless the assessment is required by customer agreement, regulation or standard document specification.
5. Bay Area Compliance Laboratories Corp. (Linkou Laboratory) is not responsible for the authenticity of the information provided by the applicant that affects the test results.

1.5 Measurement Uncertainty

Parameter		Uncertainty
AC Mains		±2.98 (dB)
RF output power, conducted		±3.73 (dB)
Power Spectral Density, conducted		±0.65 (dBm)
Occupied Bandwidth		±0.09 (%)
Unwanted Emissions, conducted		±1.03 (dB)
Emissions, radiated	9kHz~30MHz	+/- 3.13 dB
	30 MHz~1GHz	+/- 3.09 dB
	1 GHz~18 GHz	+/- 5.22 dB
	18 GHz~40 GHz	+/- 4.72 dB
Temperature		±0.78 (°C)
Humidity		±0.04 (%)

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

1.6 Environmental Conditions

Test Site	Test Date	Temperature (°C)	Relative Humidity (%)	Test Engineer
AC Line Conducted Emissions	2025/10/21	23.6	52	Cedric Xu
Radiation Spurious Emissions	2025/10/27 ~ 2026/01/16	19 ~ 21	48 ~ 59	Yue
Duty Cycle	2025/09/25	24.1	46	Alan
Emission Bandwidth And Occupied Bandwidth	2025/11/21 ~ 2026/01/14	22.4 ~ 24.1	41 ~ 46	Alan
Maximum Output Power	2025/09/25 ~ 2026/01/14	22.4 ~ 24.1	41 ~ 46	Alan
Power Spectral Density	2025/11/21 ~ 2026/01/14	22.4 ~ 24.1	41 ~ 46	Alan

1.7 Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Linkou Laboratory) to collect test data is located on

☒ No.6, Wende 2Rd., Guishan Dist., Taoyuan City 33382, Taiwan (R.O.C.).

Bay Area Compliance Laboratories Corp. (Linkou Laboratory) is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 3546) and the FCC designation No.TW3546 under the Mutual Recognition Agreement (MRA) in FCC Test.

2 System Test Configuration

2.1 Description of Test Configuration

For 5150 ~ 5250MHz

4 channels are provided for 802.11a, 802.11n (HT20) , 802.11ac (VHT20) , 802.11ax (HE20):

Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	44	5220
40	5200	48	5240

802.11a/n20/ac20/ax20 mode Channel 36, 40, 48 were tested.

For 5250 ~ 5350MHz

4 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20) , 802.11ax (HE20):

Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	60	5300
56	5280	64	5320

802.11a/n20/ac20/ax20 mode Channel 52, 60, 64 were tested.

For 5470 ~ 5725MHz

11 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20) , 802.11ax (HE20):

Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	124	5620
104	5520	128	5640
108	5540	132	5660
112	5560	136	5680
116	5580	140	5700
120	5600	/	/

802.11a/n20/ac20/ax20 mode Channel 100, 116, 140 were tested.

For 5725 ~ 5825MHz:

5 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20) , 802.11ax (HE20):

Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	161	5805
153	5765	165	5825
157	5785	/	/

802.11a/n20/ac20/ax20 mode Channel 149, 157, 165 were tested.

The system was configured for testing in engineering mode, which was provided by manufacturer.

2.2 EUT Exercise Software

The software was used “TeraTerm5”.

UNII Band	Mode	Channel	Frequency (MHz)	Power setting	
UNII-1	802.11a	36	5180	12	
		40	5200	12	
		48	5240	10	
UNII-2A		52	5260	11	
		60	5300	11	
		64	5320	9	
UNII-2C		100	5500	13	
		116	5580	23	
		136	5680	12	
		140	5700	8	
UNII-3		149	5745	10	
		157	5785	12	
		165	5825	12	
UNII-1		802.11n HT20	36	5180	12
			40	5200	12
	48		5240	10	
UNII-2A	52		5260	11	
	60		5300	11	
	64		5320	9	
UNII-2C	100		5500	14	
	116		5580	25	
	140		5700	25	
	136		5680	11	
UNII-3	149		5745	4	
	157		5785	12	
	165		5825	12	
UNII-1	802.11ac VHT20		36	5180	12
			40	5200	12
		48	5240	10	
UNII-2A		52	5260	11	
		60	5300	11	
		64	5320	9	
UNII-2C		100	5500	12	
		116	5580	18	
		136	5680	12	
		140	5700	5	
UNII-3		149	5745	10	
		157	5785	12	
		165	5825	12	
UNII-1		802.11ax HE20	36	5180	12

		40	5200	12
		48	5240	10
UNII-2A		52	5260	11
		60	5300	10
		64	5320	9
UNII-2C		100	5500	13
		116	5580	20
		136	5680	12
		140	5700	7
UNII-3		149	5745	10
		157	5785	12
		165	5825	12

The worst case data rates are as follows:

802.11a: 6Mbps

802.11n HT20: MCS0

802.11ac VHT20: MCS0

802.11ax HE20: MCS0

2.3 Equipment Modifications

No modification was made to the EUT.

2.4 Test Mode

Mode 1: Full System (model: RRQ61051-008) for all test item.

2.5 Support Equipment List and Details

No.	Description	Manufacturer	Model
1	Notebook (Lab provided)	DELL	E6410
2	Notebook (Lab provided)	Acer	N16Q1
3	Test Development Board (Customer provided)	RENESAS	EK-RQ61 565-11-C-0001 Ver 3.1
4	DaughterBoard (Customer provided)	RENESAS	RRQ610x1 565-16-B

2.6 External Cable List and Details

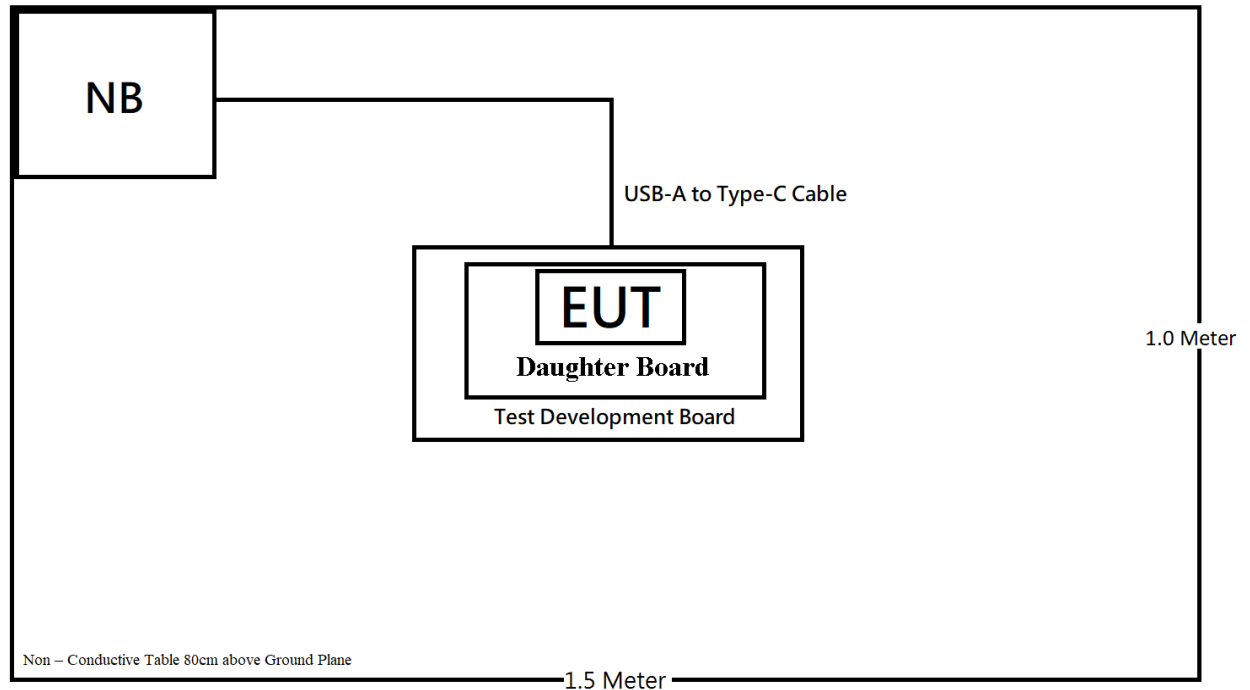
No.	Description	Manufacturer	Model
1	USB-A to C cable (Customer provided)	VENTION	COZ

2.7 Block Diagram of Test Setup

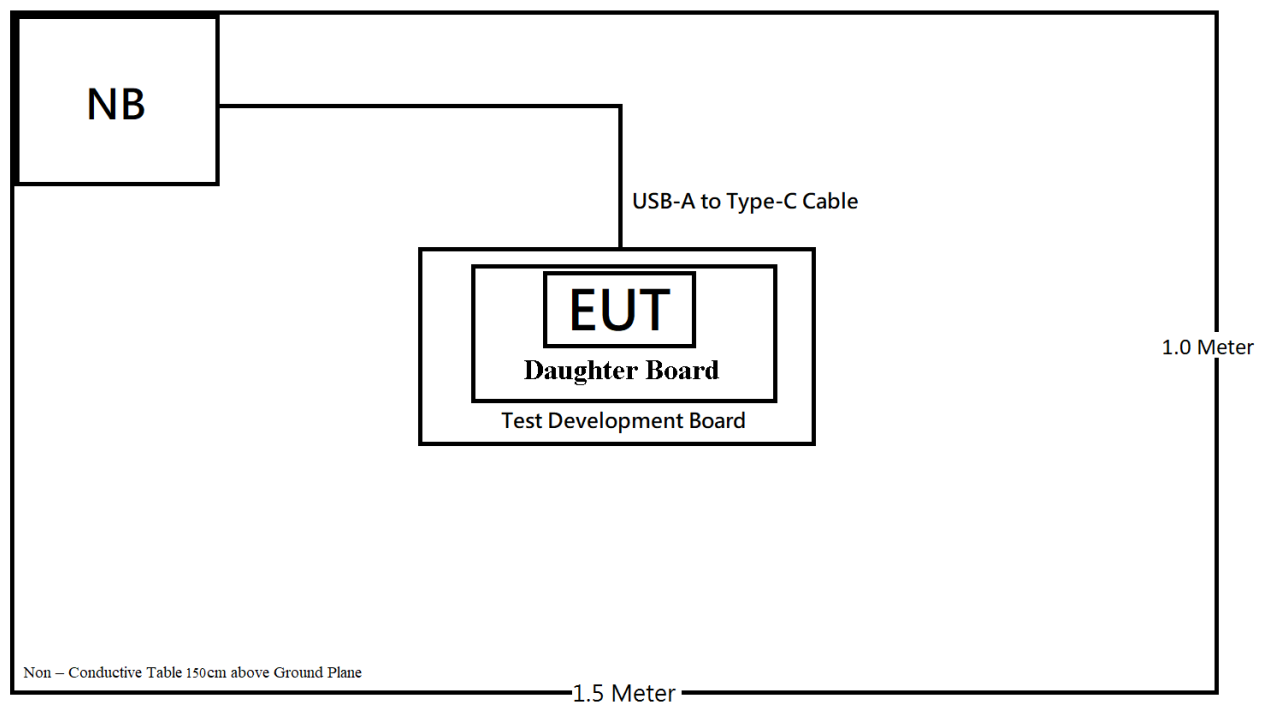
See test photographs attached in setup photos for the actual connections between EUT and support equipment.

Radiation:

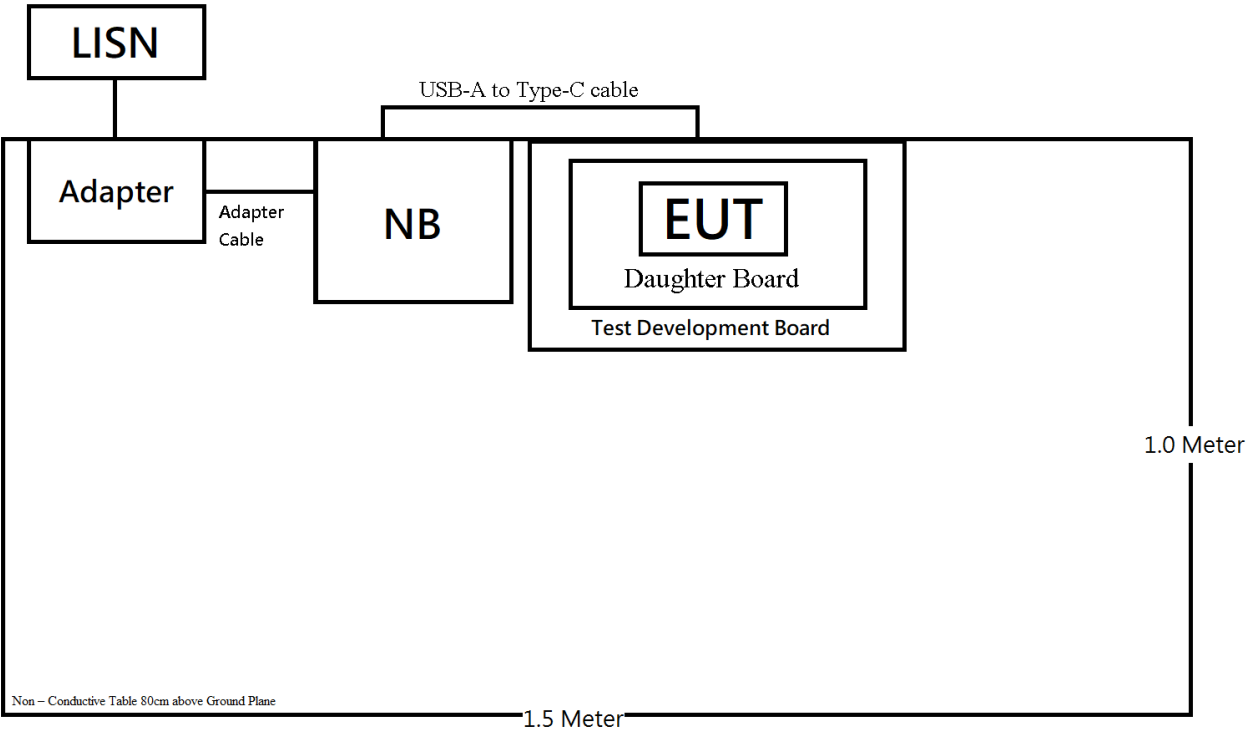
Below 1GHz



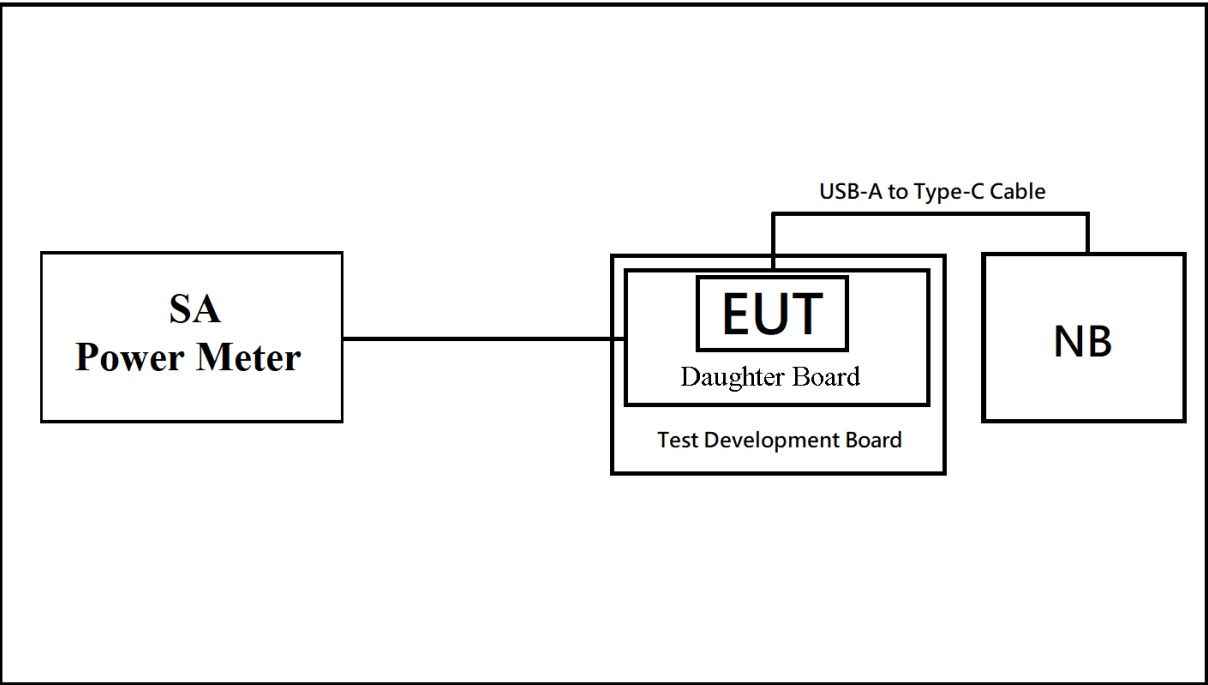
Above 1GHz:



Conduction:



Conducted:



2.8 Duty Cycle

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01 section II.B:

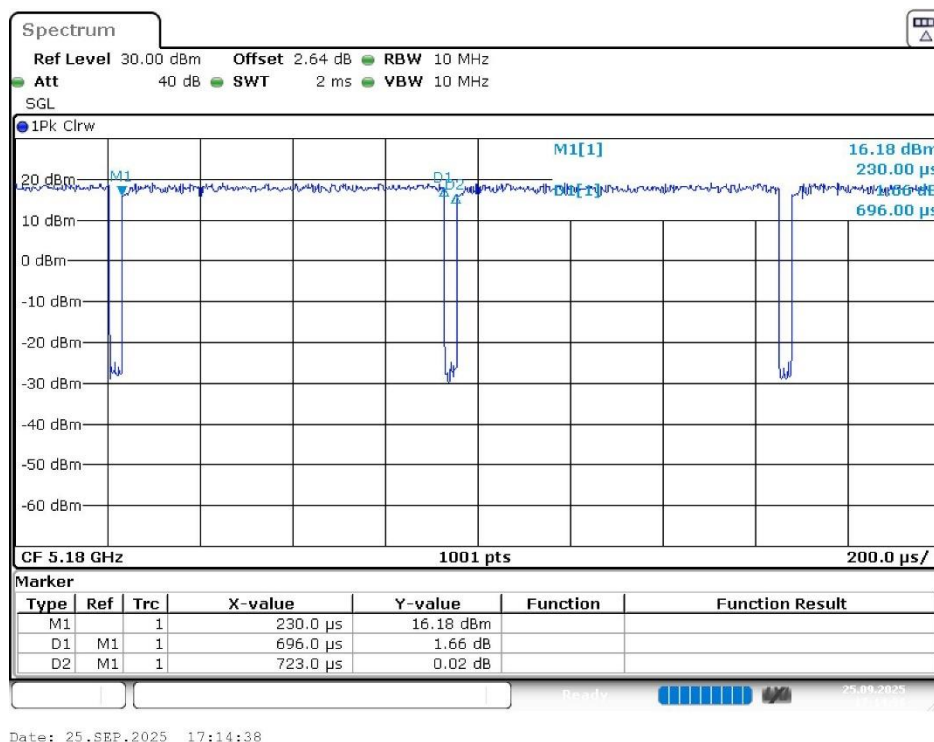
All measurements are to be performed with the EUT transmitting at 100% duty cycle at its maximum power control level; however, if 100% duty cycle cannot be achieved, measurements of duty cycle, x, and maximum power transmission duration, T, are required for each tested mode of operation.

Radio Mode	On Time (ms)	On+Off Time (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T VBW Setting (kHz)	1/T (kHz)
802.11a	0.696	0.723	96	0.18	3	1.44
802.11 n20	0.292	0.319	92	0.36	5	3.42
802.11 ac20	3.746	3.771	99	0.00	/	0.01
802.11 ax20	2.836	2.861	99	0.00	/	0.01

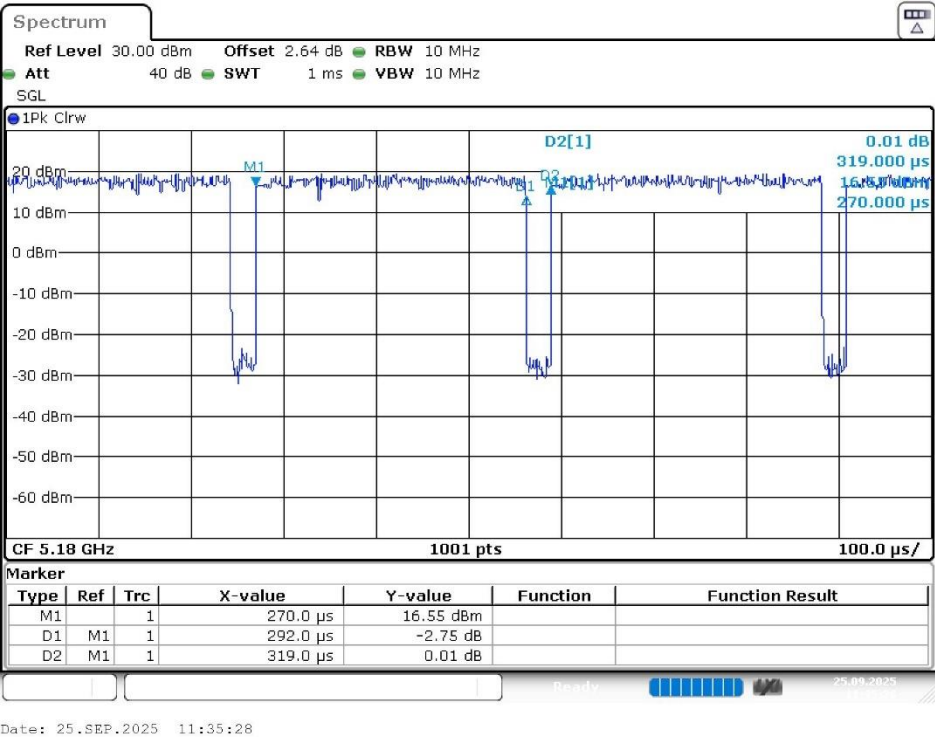
Note: Duty Cycle Correction Factor = $10 \cdot \log(1/\text{duty cycle})$

Please refer to the following plots.

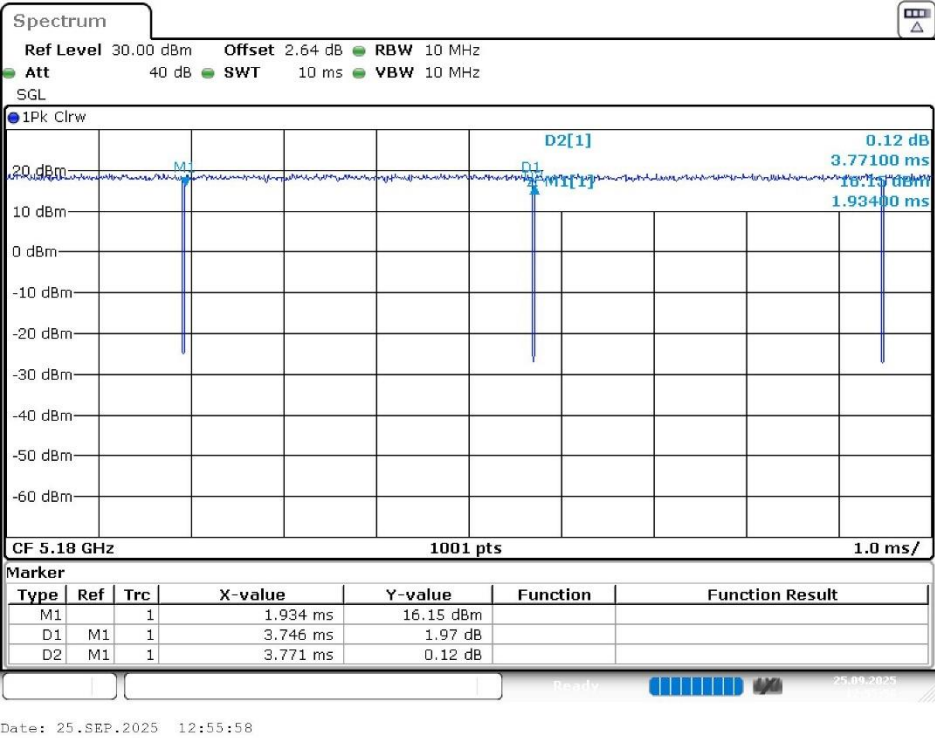
802.11a Mode



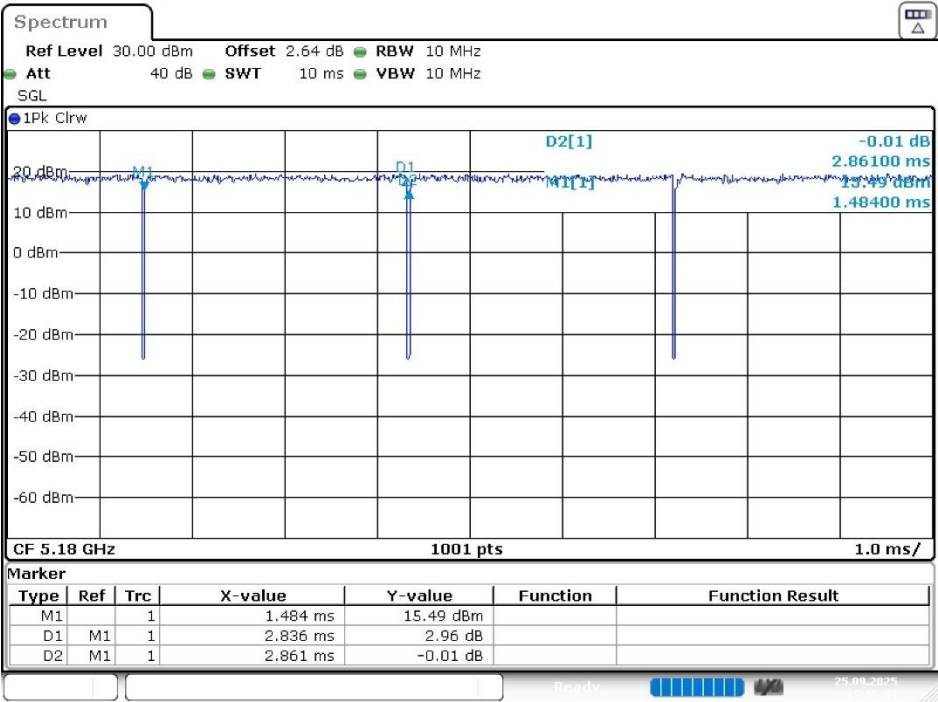
802.11 n20 Mode



802.11 ac20 Mode



802.11 ax20 Mode



Date: 25.SEP.2025 15:05:36

3 Summary of Test Results

Standard(s) Section	Description of Test	Results
§15.203	Antenna Requirement	Compliance
§15.407(b)(9) & §15.207(a)	AC Line Conducted Emissions	Compliance
§15.205 & §15.209 & §15.407(b)	Unwanted Emission	Compliance
§15.407(a)(e)	Emission Bandwidth	Compliance
§15.407(a)	Conducted Transmitter Output Power	Compliance
§15.407(a)	Power Spectral Density	Compliance

4 Test Equipment List and Details

Description	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due Date
AC Line Conduction Room (CON-A)					
Pulse Limiter	SCHWARZBECK	VTSD 9561-F	00432	2025/08/14	2026/08/14
ESR EMI Test Receiver	Rohde & Schwarz	ESCI7	100769	2025/04/02	2026/04/02
RF Cable	EMCI	EMCCFD300-BM-BM-3000	221013	2025/10/16	2026/10/16
Two-Line V-Network	Rohde & Schwarz	ENV216	100037	2025/09/15	2026/09/15
Software	Audix	e3 v9	E3LK-03	N.C.R	N.C.R
Radiation 3M Room (966-A)					
Bilog Antenna & 6 dB Attenuator	SUNOL SCIENCES & EMCI	JB3 & N-6-06	A111513 & AT-N0668	2025/04/11	2026/04/11
Active Loop Antenna	ETS-Lindgren	6502	0001-3322	2025/03/27	2026/03/27
Horn Antenna	ETS-Lindgren	3115	109141	2025/08/22	2026/08/22
Horn Antenna	ETS-Lindgren	3160-09	123852	2025/07/18	2026/07/18
Horn Antenna	ETS-Lindgren	3160-10	123855	2025/07/18	2026/07/18
18-40GHz Preamplifier	GLOBAL	1313-A1840	5031382	2025/04/28	2026/04/28
30M-18GHz Preamplifier	A.H. Systems	PAM-0118P	470	2025/03/25	2026/03/25
ESR EMI Test Receiver	Rohde & Schwarz	ESR3	102448	2025/10/02	2026/10/02
Spectrum Analyzer	Rohde & Schwarz	FSV40	101456	2025/06/05	2026/06/05
Microflex Cable (1m)	UTiFLEX	UFB205A-0-0360-000000	W6103	2025/08/01	2026/08/01
Microflex Cable (2m)	EMCI	EMCI06-SM-SM-2000	180515	2025/08/01	2026/08/01
Microflex Cable (8m)	UTIFLEX	UFA210A-1-3149-300300	MFR 64639 232490-001	2025/08/01	2026/08/01
Software	AUDIX	E3 V9	E3LK-01	N.C.R	N.C.R
-10dB Attenuator	MTJ	MTJ604-10	004	2025/04/07	2026/04/07
Band Reject Filter	MICRO-TRONICS	BRM50716	G444	2025/04/30	2026/04/30
Conducted Room					
Cable	MTJ	MT40S	620620-MT40S-100	2024/12/26	2026/01/05
Cable	MTJ	MT40S	620620-MT40S-100	2026/01/05	2026/01/05
Signal and Spectrum Analyzer	Rohde & Schwarz	FSV40	101457	2024/12/04	2025/12/04
Signal and Spectrum Analyzer	Rohde & Schwarz	FSV40	101457	2025/12/03	2026/12/03
USB Wideband Power Sensor	AGILENT	U2021XA	MY54080011	2025/08/26	2026/08/26
10dB Attenuator	MCL	BW-S10W5+	605	2025/04/14	2026/04/14

***Statement of Traceability:** BACL Corp. attests that all of the calibrations on the equipment items listed above were traceable to the SI System of Units via the R.O.C. Center for Measurement Standards of the Electronics Testing Center, Taiwan (ETC) or to another internationally recognized National Metrology Institute (NMI), and were compliant with the current Taiwan Accreditation Foundation (TAF) requirements.

5 FCC §15.203 – Antenna Requirements

5.1 Applicable Standard

For intentional device, according to §15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used.

5.2 Antenna Information

Manufacturer	Model	Antenna Type	Antenna Gain (dBi)
Renesas	RRQ610x1-008	PCB Antenna	5150~5250 MHz: 3.4 5250~5350 MHz: 3.4 5470~5725 MHz: 3.4 5725~5850 MHz: 3.4

Unit use of a permanently attached antenna

Result: Compliance

6 FCC§15.207 – AC Line Conducted Emissions

6.1 Applicable Standard

As per FCC §15.207

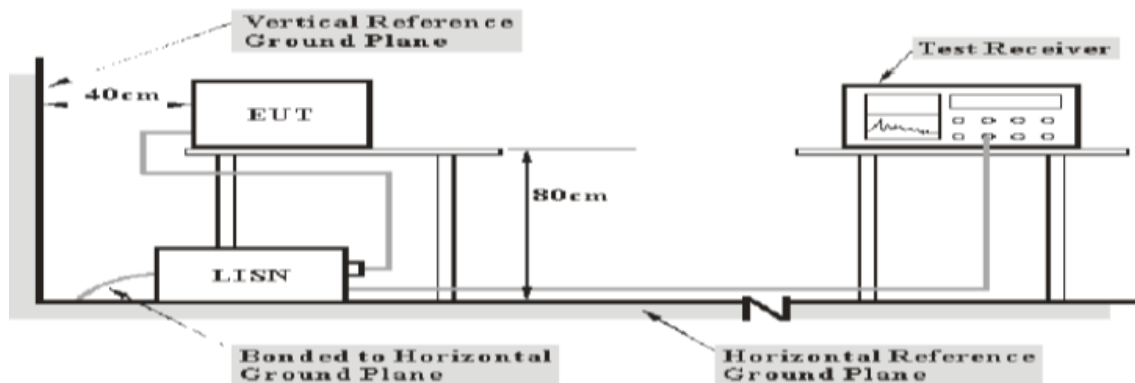
Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in §15.207

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequencies ranges.

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-Peak	Average
0.15-0.5	66 to 56 ^{Note 1}	56 to 46 ^{Note 1}
0.5-5	56	46
5-30	60	50

Note 1: Decreases with the logarithm of the frequency.

6.2 EUT Setup



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2020+Cor.1-2023 measurement procedure. The specification used was with the FCC Part 15.207 limits.

6.3 EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150kHz to 30MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations

Frequency Range	IF B/W
150kHz – 30MHz	9kHz

6.4 Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

6.5 Factor & Over Limit Calculation

The factor is calculated by adding LISN/ISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation. The basic equation is as follows:

$$\text{Factor} = \text{LISN VDF} + \text{Cable Loss} + \text{Transient Limiter Attenuation}$$

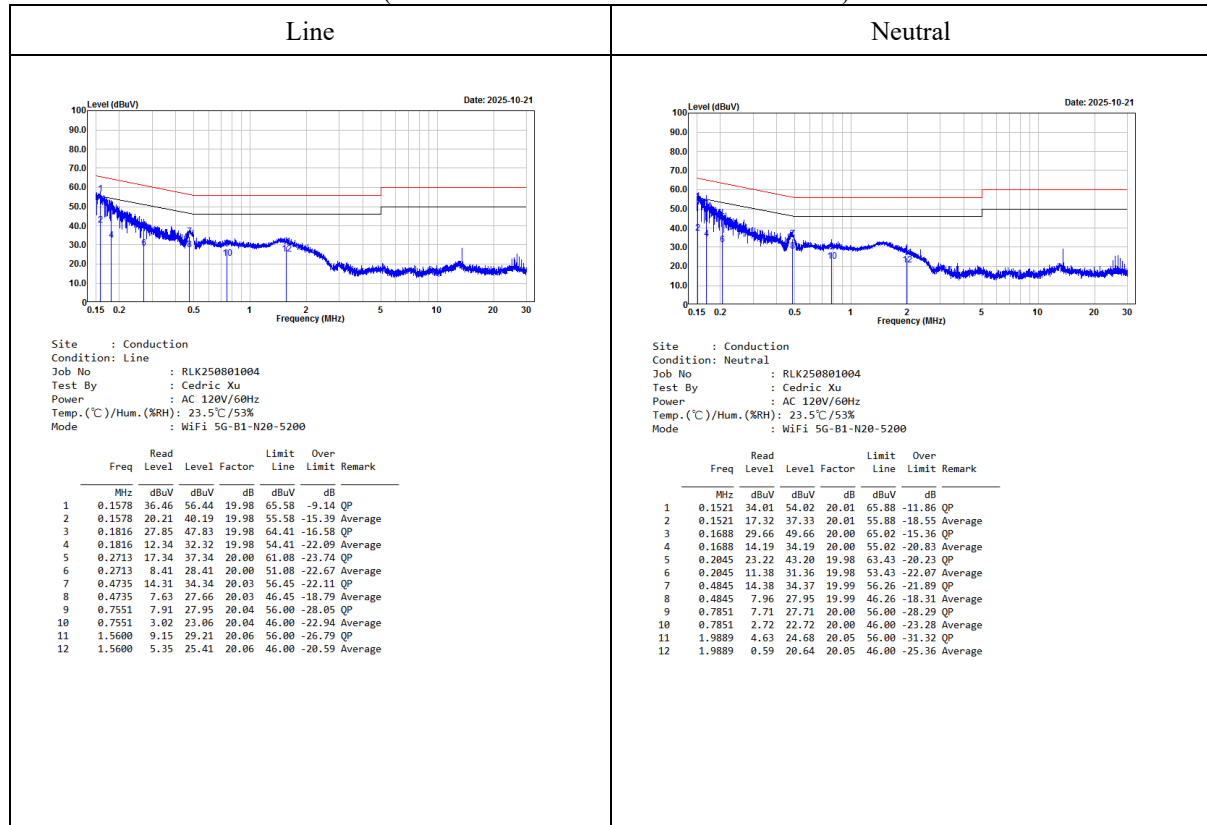
The “Over Limit” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an over limit of -7 dB means the emission is 7 dB below the limit. The equation for Over Limit calculation is as follows:

$$\text{Over Limit} = \text{Level} - \text{Limit Line}$$

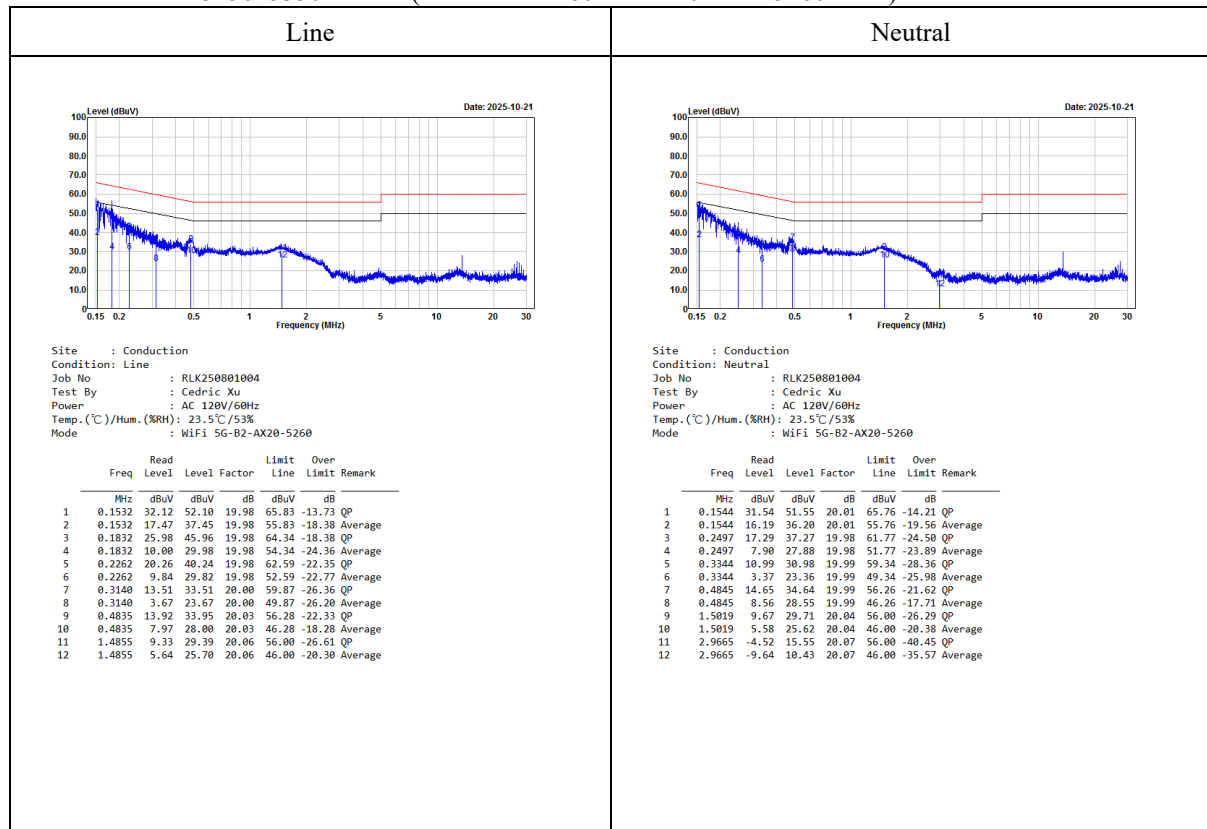
6.6 Test Results

Test Mode: Transmitting

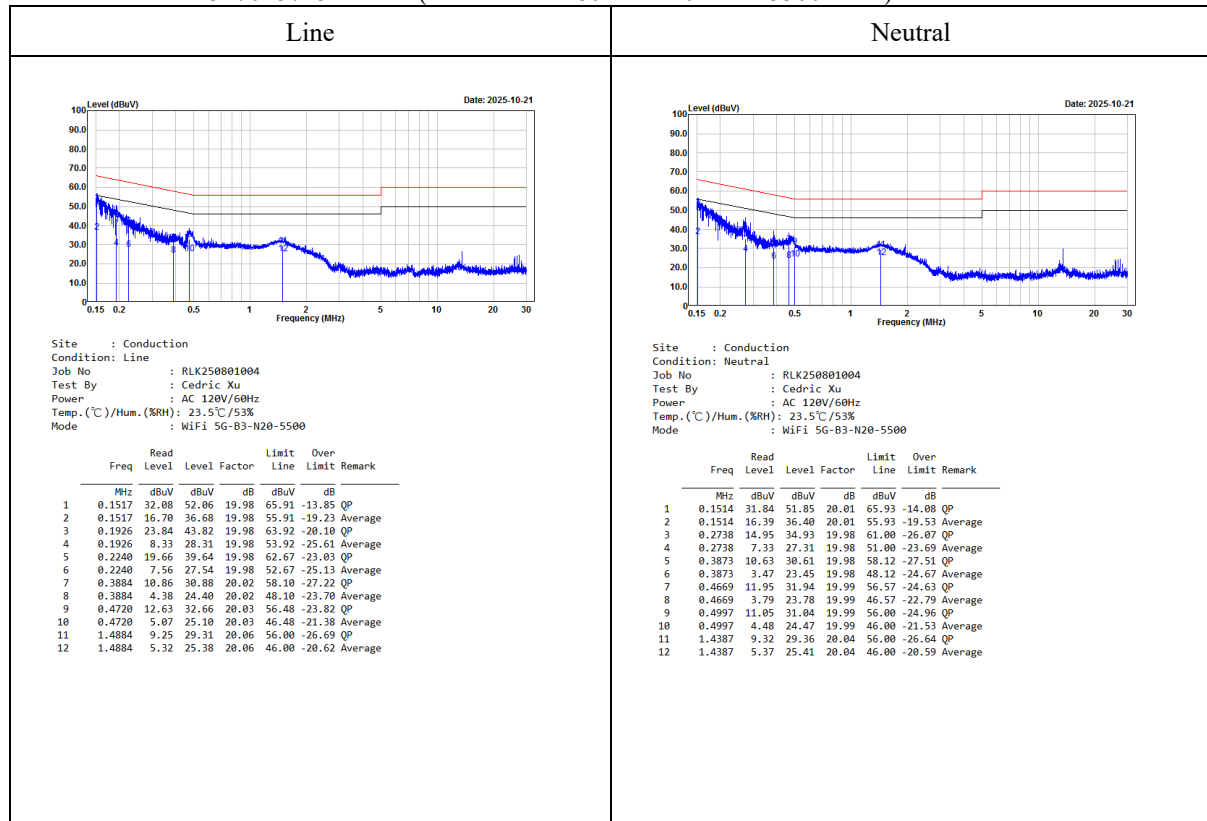
UNII-1 Band I 5150~5250 MHz (Worst case is 802.11n20 mode 5200 MHz)



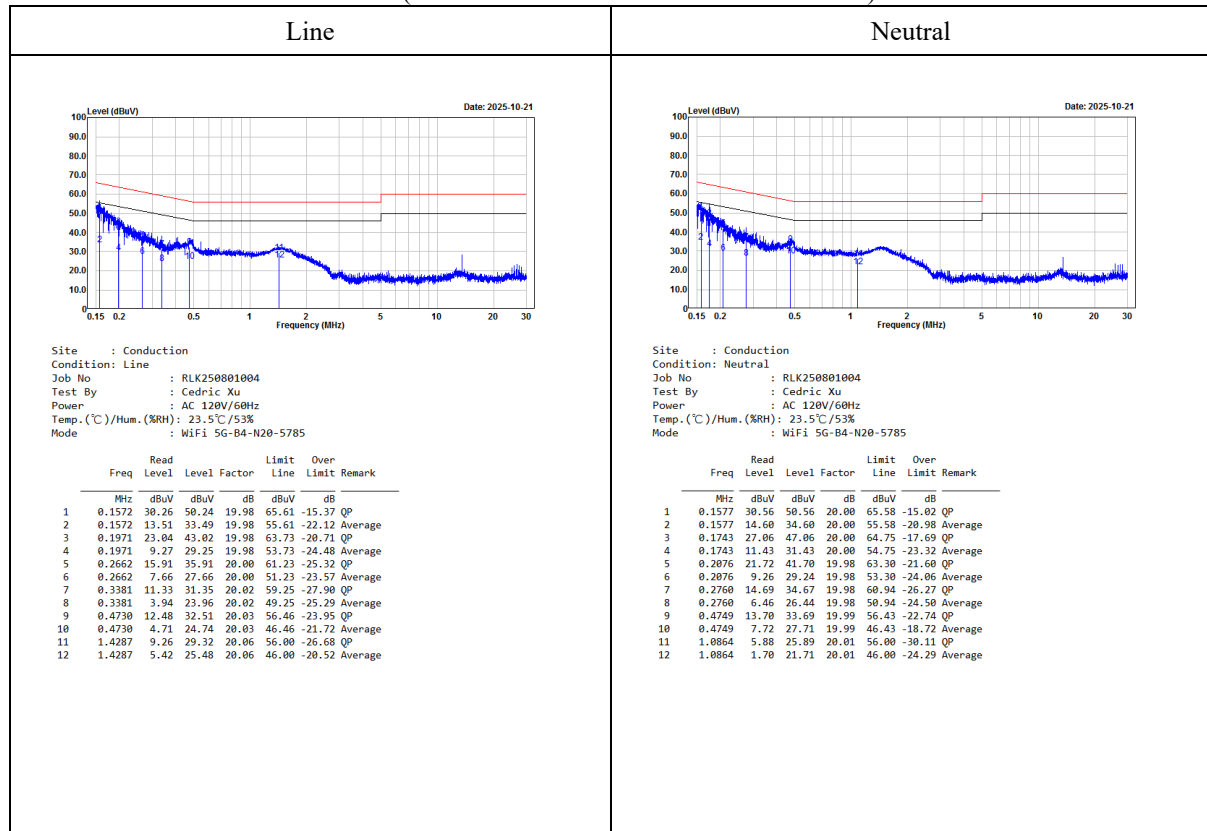
UNII-2A Band II 5250~5350 MHz (Worst case is 802.11 ax20 mode 5260 MHz)



UNII-2C Band III 5470~5725 MHz (Worst case is 802.11 n20 mode 5500 MHz)



UNII-3 Band IV 5725~5850 MHz (Worst case is 802.11 n20 mode 5785 MHz)



Note:

Result = Reading + Factor

Over Limit = Result - Limit Line

Factor = (LISN, ISN, PLC or current probe) Factor + Cable Loss + Attenuator

Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Linkou Laboratory)

7 FCC §15.209, §15.205, §15.407(b) – Spurious Emissions

7.1 Applicable Standard

As Per FCC §15.205(a) except as show in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 – 0.110	16.42 – 16.423	608 – 614	4.5 – 5.15
0.495 – 0.505	16.69475 – 16.69525	960 – 1240	5.35 – 5.46
2.1735 – 2.1905	16.80425 – 16.80475	1300 – 1427	7.25 – 7.75
4.125 – 4.128	25.5 – 25.67	1435 – 1626.5	8.025 – 8.5
4.17725 – 4.17775	37.5 – 38.25	1645.5 – 1646.5	9.0 – 9.2
4.20725 – 4.20775	73 – 74.6	1660 – 1710	9.3 – 9.5
6.215 – 6.218	74.8 – 75.2	1718.8 – 1722.2	10.6 – 12.7
6.26775 – 6.26825	108 – 121.94	2200 – 2300	13.25 – 13.4
6.31175 – 6.31225	123 – 138	2310 – 2390	14.47 – 14.5
8.291 – 8.294	149.9 – 150.05	2483.5 – 2500	15.35 – 16.2
8.362 – 8.366	156.52475 – 156.52525	2690 – 2900	17.7 – 21.4
8.37625 – 8.38675	156.7 – 156.9	3260 – 3267	22.01 – 23.12
8.41425 – 8.41475	162.0125 – 167.17	3.332 – 3.339	23.6 – 24.0
12.29 – 12.293	167.72 – 173.2	3.3458 – 3.358	31.2 – 31.8
12.51975 – 12.52025	240 – 285	3.600 – 4.400	36.43 – 36.5
12.57675 – 12.57725	322 – 335.4		Above 38.6
13.36 – 13.41	399.9 – 410		

As per FCC §15.209(a): Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (micro volts/meter)	Measurement Distance (meters)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100**	3
88 - 216	150**	3
216 - 960	200**	3
Above 960	500	3

Note 1: Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

According to ANSI C63.10-2020+Cor.1-2023, section 5.3.3

Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field, and the emissions to be measured can be detected by the measurement equipment (see 4.3.4).

Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. Measurements from 18 GHz to 40 GHz are typically made at distances significantly less than 3 m from the EUT. When performing

measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade of distance (inverse of linear distance for field-strength measurements or inverse of linear distance-squared for power-density measurements).

As per FCC Part 15.407 (b)

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.

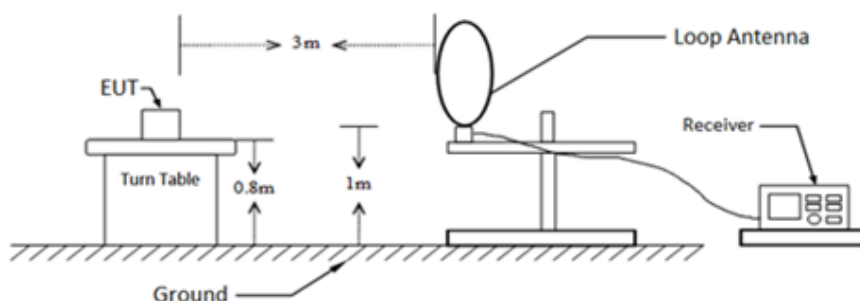
Devices certified before March 2, 2017 with antenna gain greater than 10 dBi may demonstrate compliance with the emission limits in § 15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease by March 2, 2018. Devices certified before March 2, 2018 with antenna gain of 10 dBi or less may demonstrate compliance with the emission limits in §15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease before March 2, 2020.

The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.

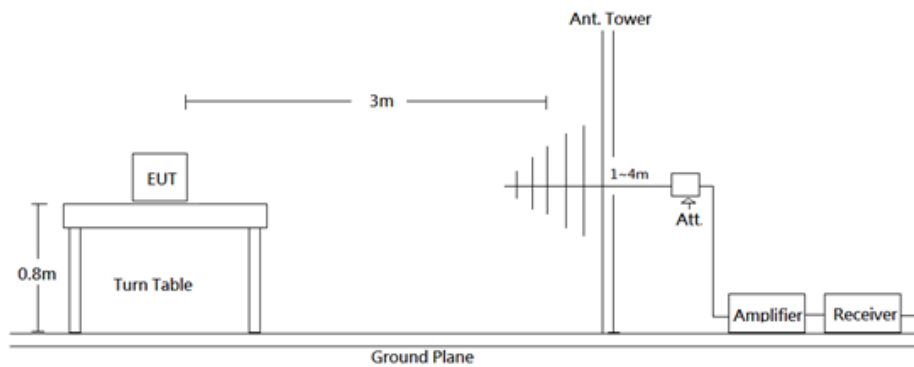
Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209.

7.2 EUT Setup

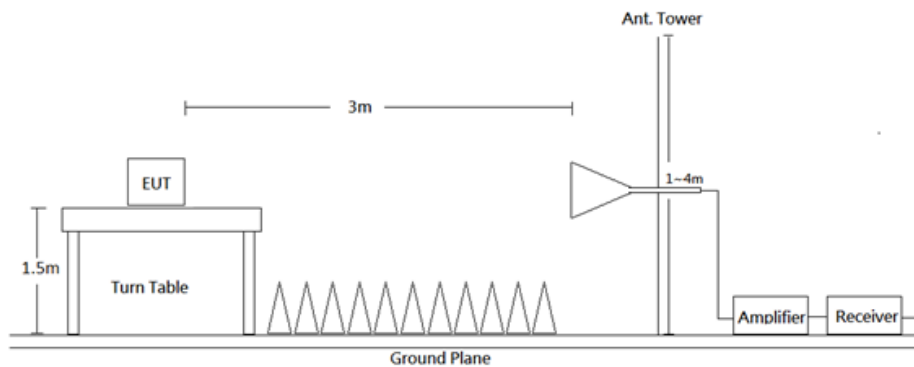
9kHz-30MHz:



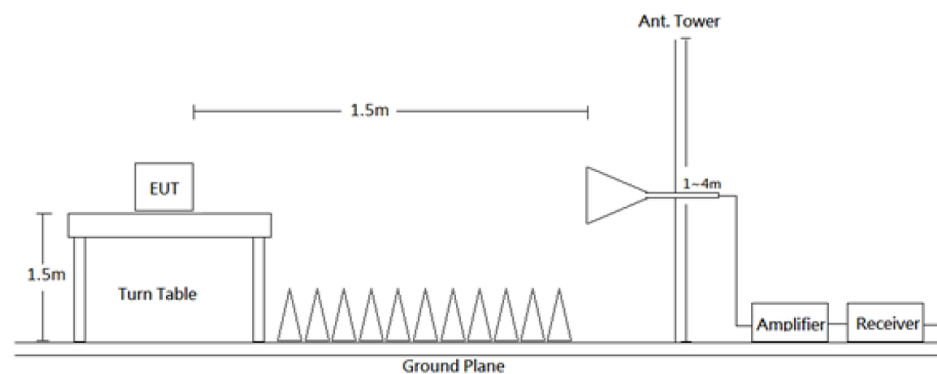
30MHz-1GHz:



1-18 GHz:



18-40 GHz:



Radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2020+Cor.1-2023. The specification used was the FCC Part 15.209, FCC 15.407 Limits.

7.3 EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9 kHz to 40 GHz. During the radiated emission test, the EMI test receiver was set with the following configurations measurement method 6.3 in ANSI C63.10-2020+Cor.1-2023.

Frequency Range	RBW	VBW	Duty cycle	Measurement method	Detector
9 kHz - 150 kHz	200 Hz/300 Hz	1 kHz	/	QP/AV	QP/AV
150 kHz - 30 MHz	9 kHz/10 kHz	30 kHz	/	QP/AV	QP/AV
30-1000 MHz	120 kHz	500 kHz	/	QP	QP
Above 1 GHz	Pre-scan :				
	1 MHz	3 MHz	/	PK	PK
	1 MHz	1 kHz	>98%	Ave	PK
	1 MHz	$\geq 1/\text{Ton}$, not less than 1 kHz	<98%	Ave	PK
	Final measurement for emission identified during pre-scan :				
	1 MHz	3 MHz	/	PK	PK
	1 MHz	10 Hz	>98%	Ave	PK
	1 MHz	$\geq 1/\text{Ton}$	<98%	Ave	PK

Note: T is minimum transmission duration

If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

7.4 Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All data was recorded in Quasi-peak and average detector mode from 9 kHz to 30 MHz, Quasi-peak detector mode from 30 MHz to 1 GHz and PK and average detector modes for frequencies above 1 GHz.

According to C63.10-2020+Cor.1-2023, emission shall be computed as: $E [\text{dB}\mu\text{V}/\text{m}] = \text{EIRP}[\text{dBm}] + 95.2$, for $d = 3$ meters.

All emissions under the average limit and under the noise floor have not recorded in the report

7.5 Factor & Over Limit Calculation

The Factor is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

$$\text{Factor} = \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “Over Limit” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an over limit of -7 dB means the emission is 7 dB below the limit. The equation for Over Limit calculation is as follows:

$$\text{Over Limit} = \text{Level} - \text{Limit Line}$$

7.6 Test Results

Test Mode: Transmitting

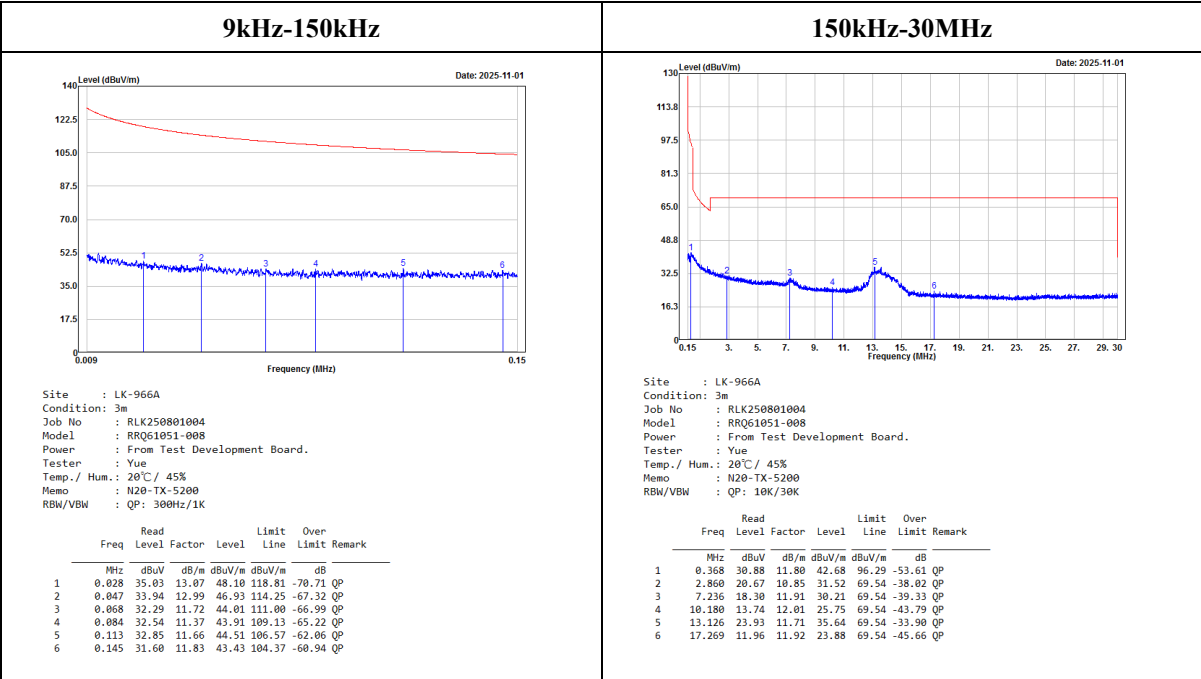
(Pre-scan with three orthogonal axis, and worse case as Y axis.)

9kHz-30MHz:

UNII-1 Band I 5150~5250 MHz

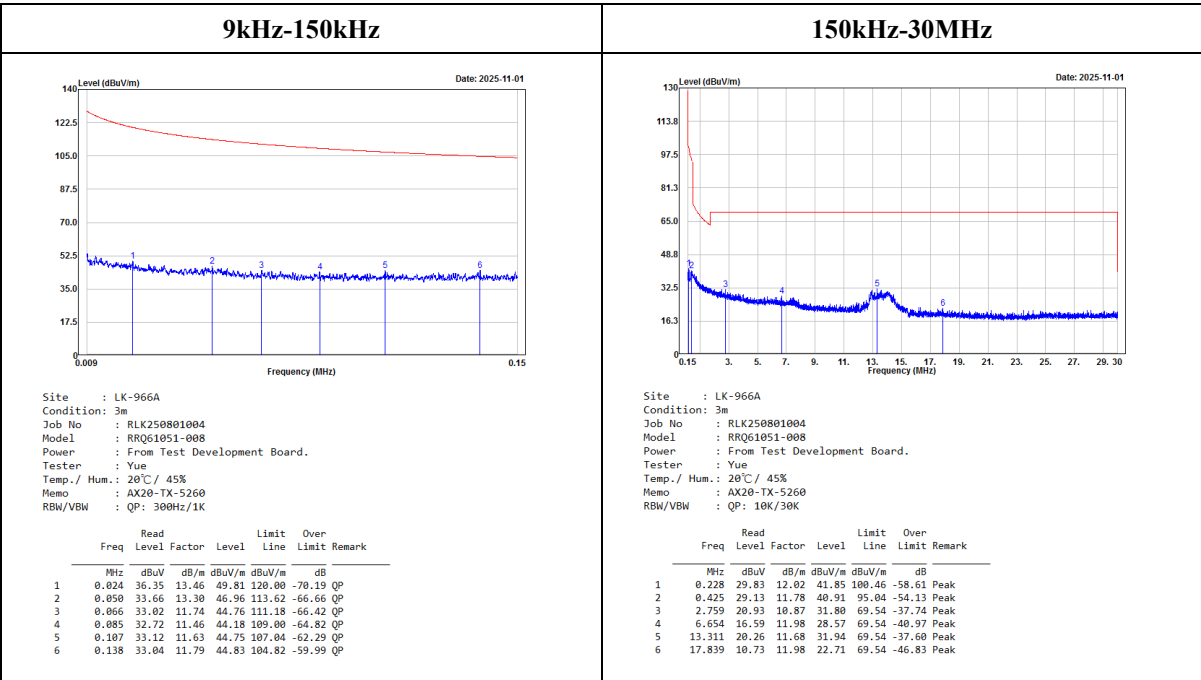
(Pre-scan using three directional polarities, worst case as parallel.)

(Worst case is 802.11n20 mode, 5200 MHz)



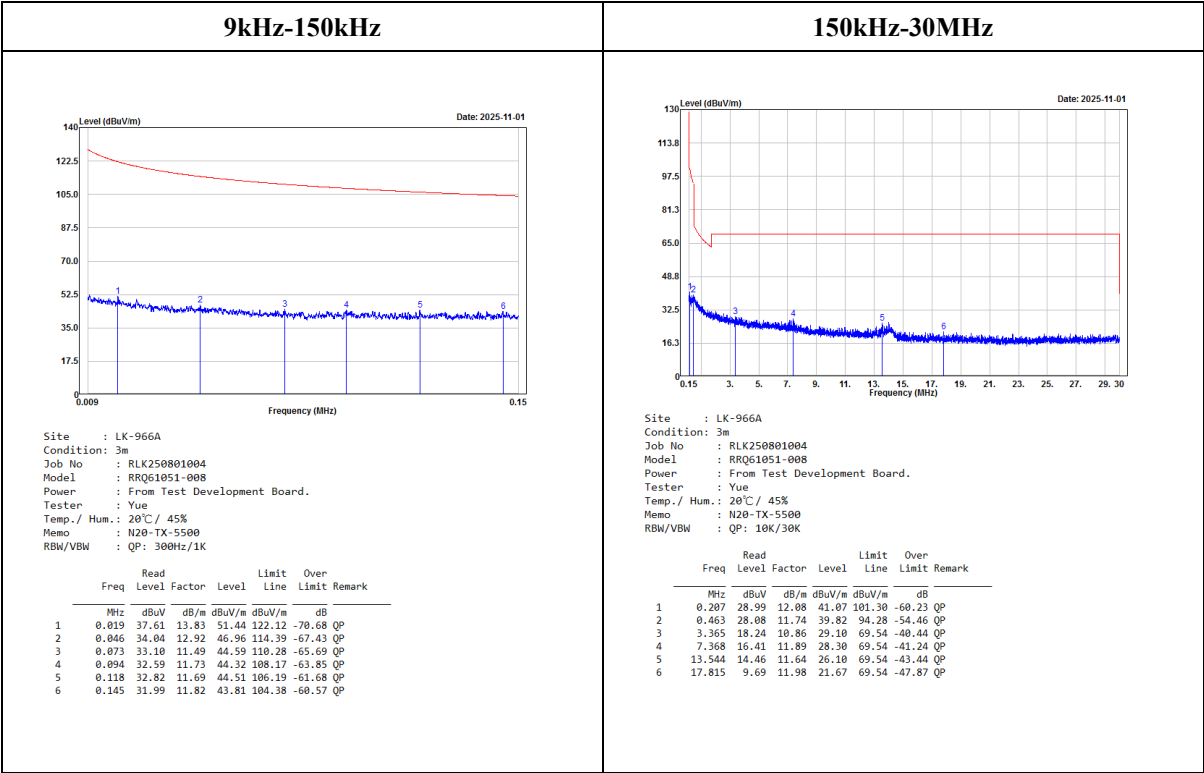
UNII-2A Band II 5250~5350 MHz

(Worst case is 802.11ax HE20 mode, 5260 MHz)



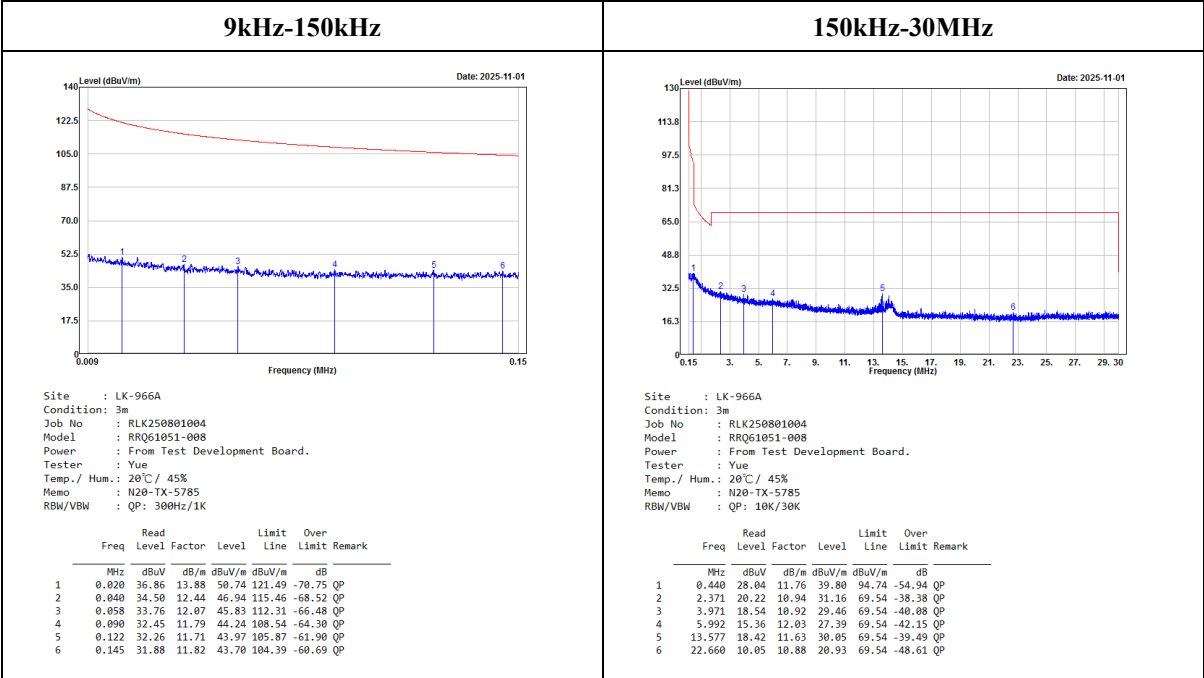
UNII-2C Band III 5470~5725 MHz

(Worst case is 802.11n HT20 mode, 5500 MHz)



UNII-3 Band IV 5725~5850 MHz

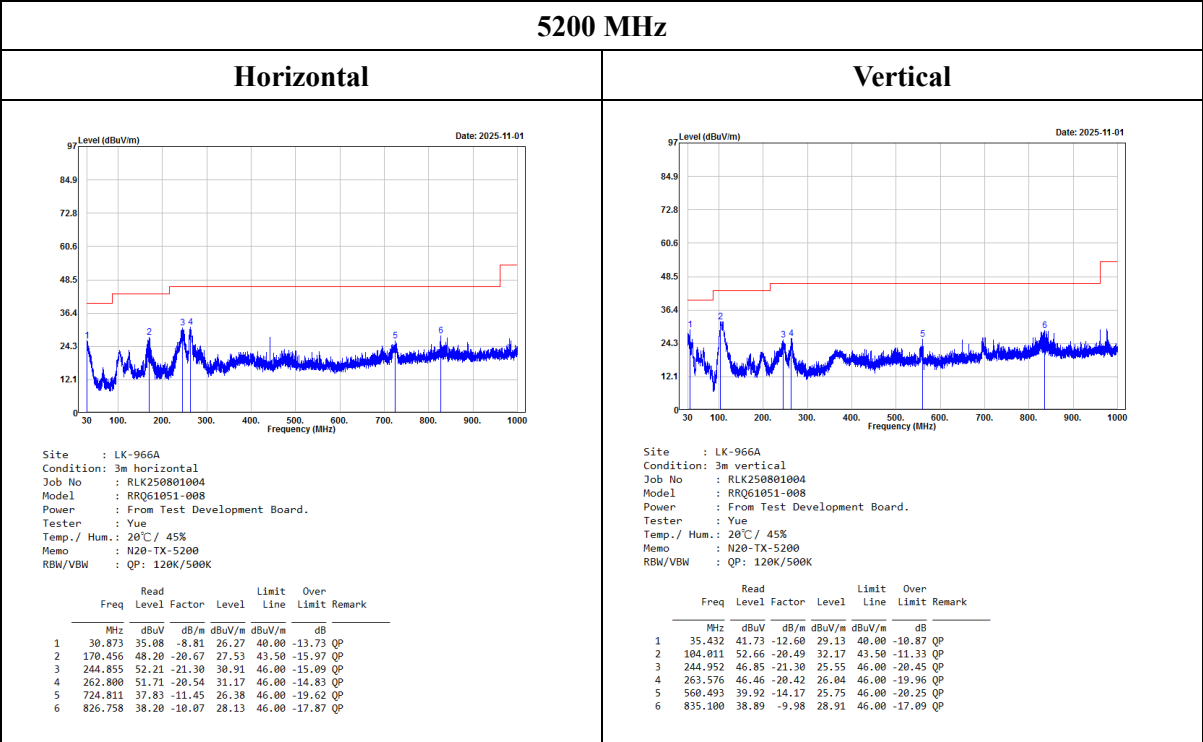
(Worst case is 802.11n HT20 mode, 5785 MHz)



30MHz-1GHz:

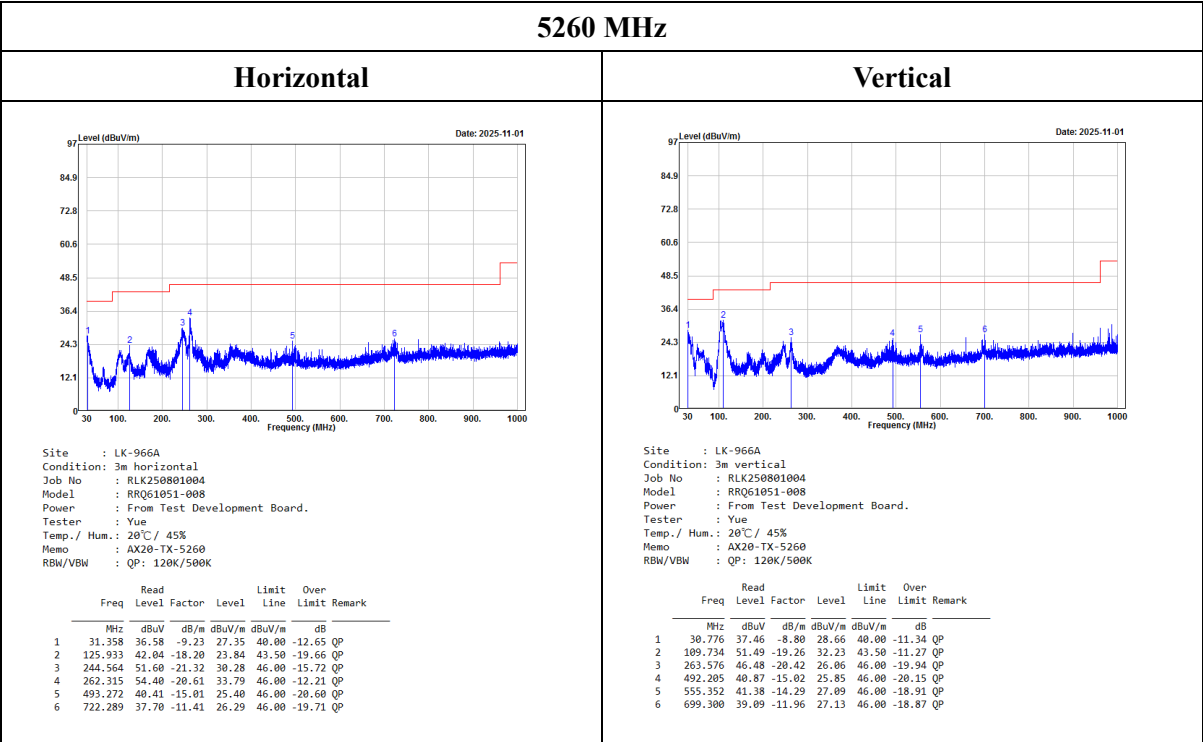
UNII-1 Band I 5150~5250 MHz

(Worst case is 802.11n20 Mode)



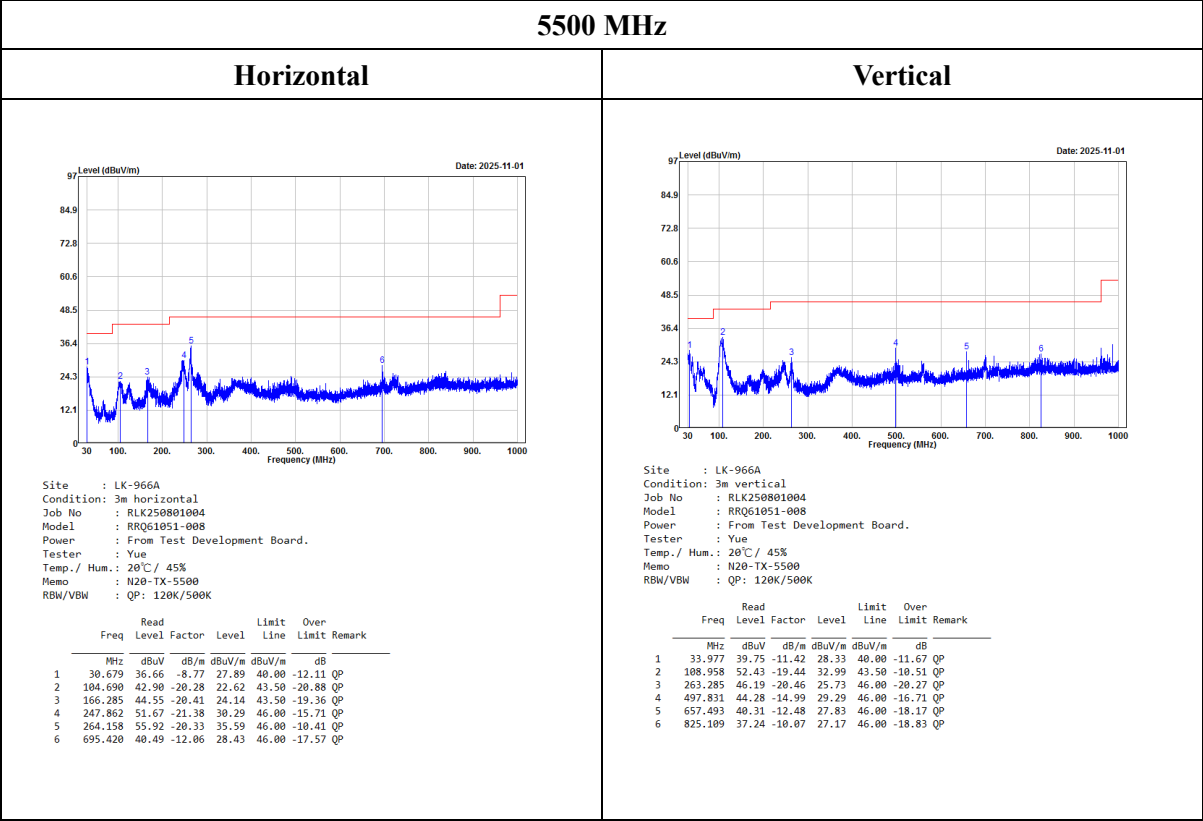
UNII-2A Band II 5250~5350 MHz

(Worst case is 802.11ax20 Mode)



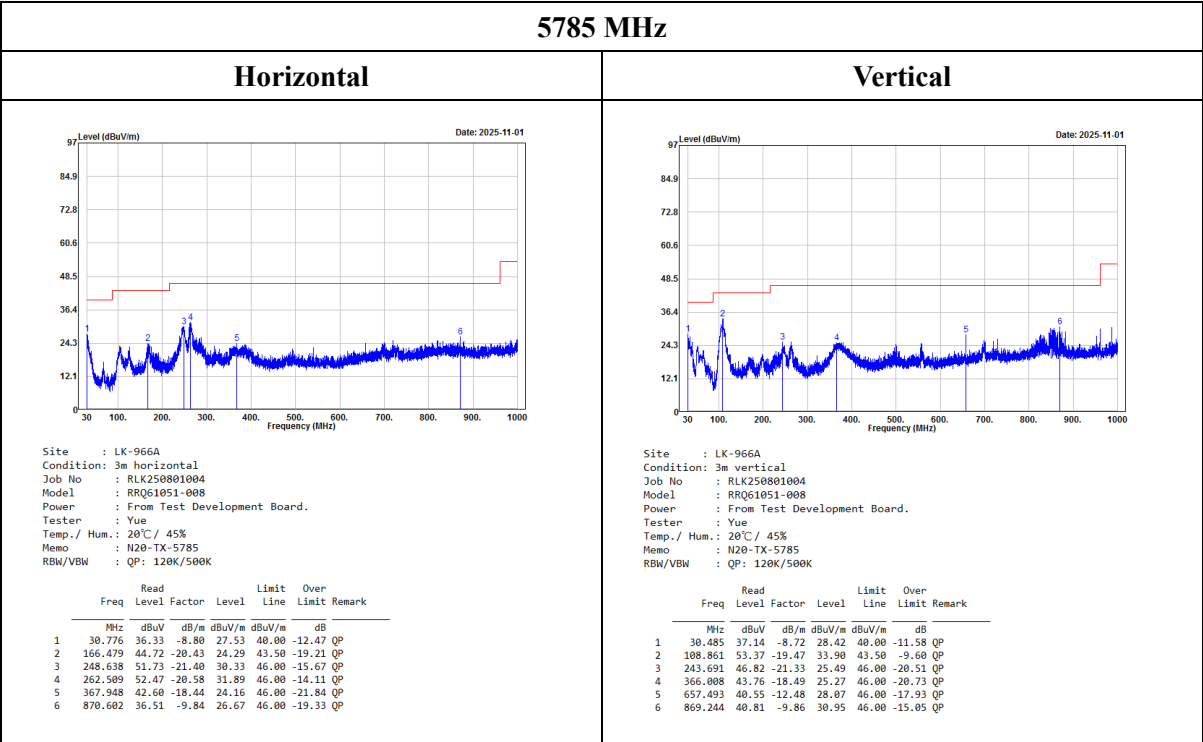
UNII-2C Band III 5470~5725 MHz

(Worst case is 802.11n20 Mode)



UNII-3 Band IV 5725~5850 MHz

(Worst case is 802.11n20 Mode)



Level = Reading + Factor.

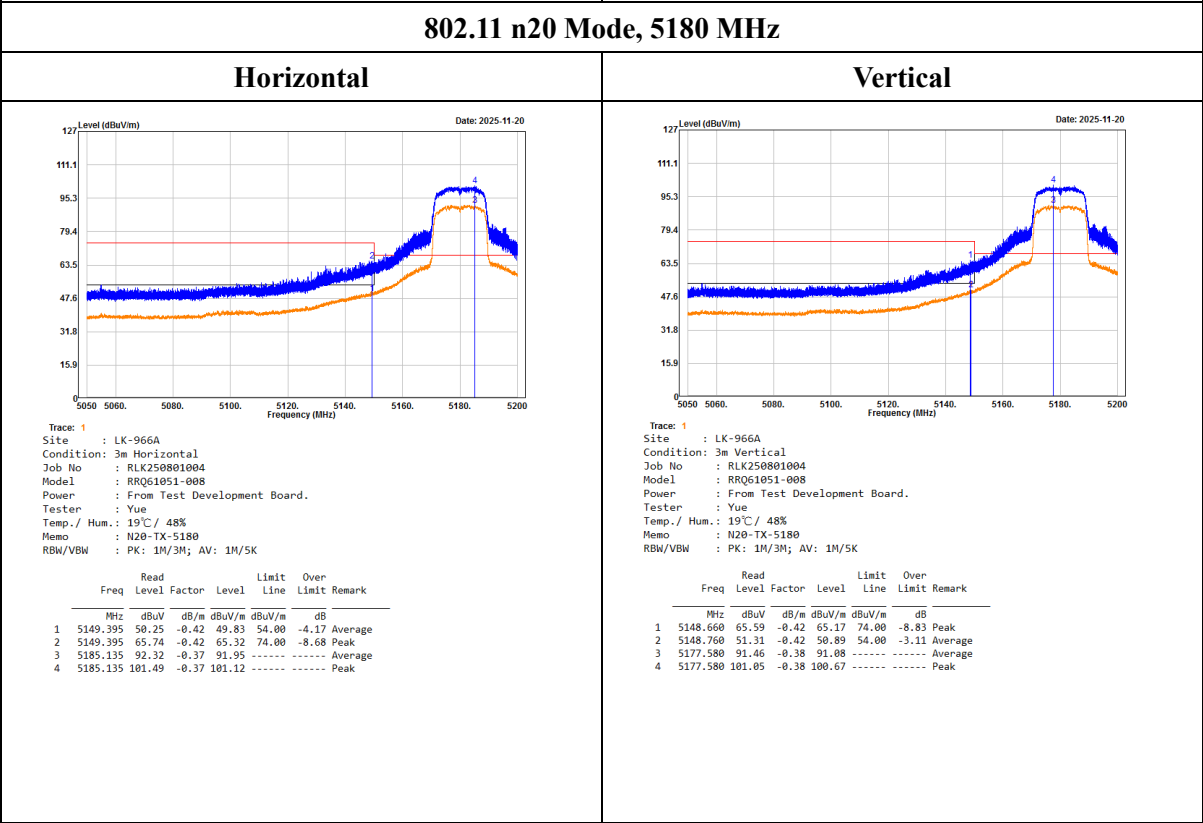
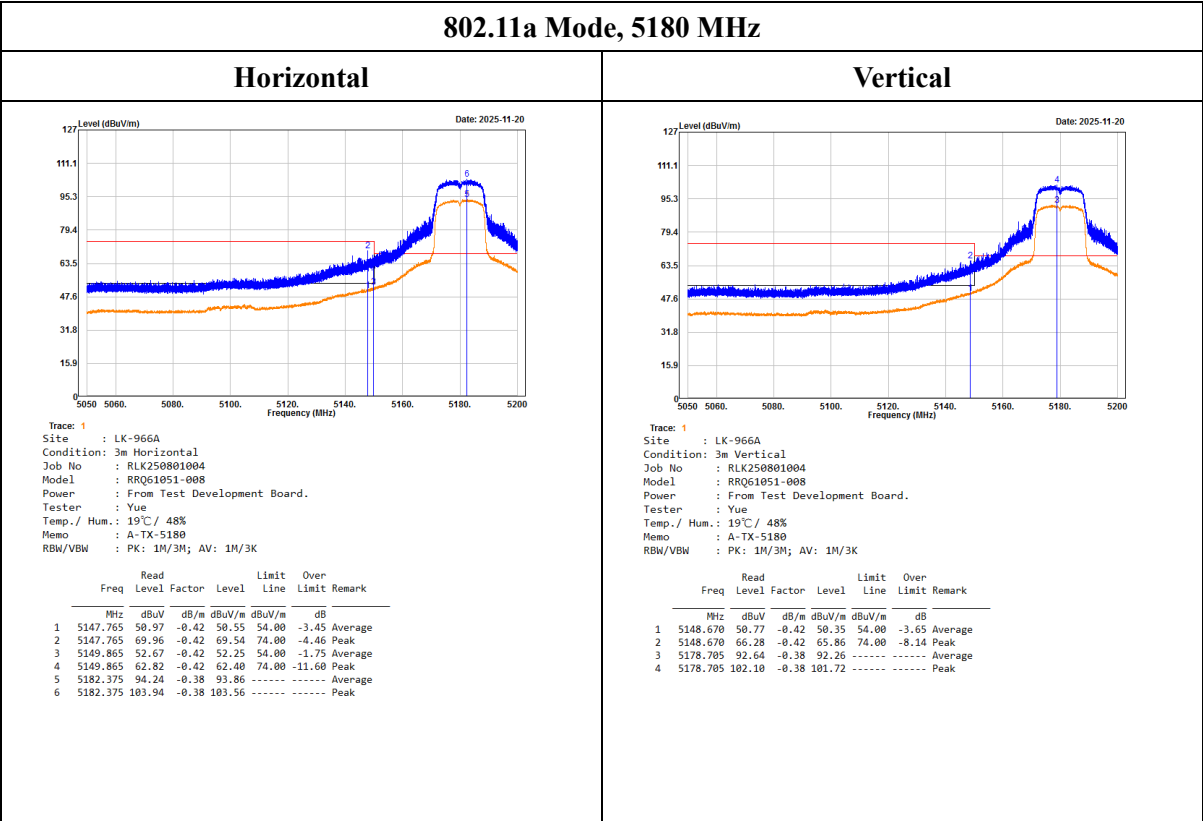
Over Limit = Level – Limit.

Factor = Antenna Factor + Cable Loss – Amplifier Gain.

Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Linkou Laboratory)

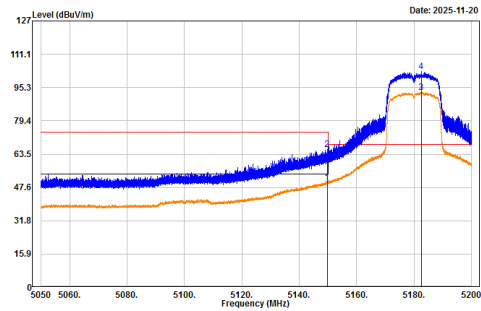
Band-Edge

UNII-1 Band I 5150-5250 MHz



802.11 ac20 Mode, 5180 MHz

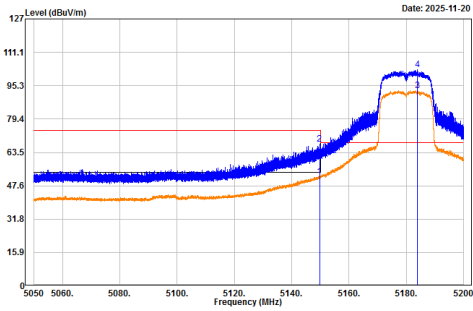
Horizontal



Trace: 1
Site : LK-966A
Condition: 3m Horizontal
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 19°C / 48%
Memo : AC20-TX-5180
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit	Over	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	5149.705	50.22	-0.42	49.80	54.00	-4.20	Average
2	5149.705	66.08	-0.42	65.66	74.00	-8.34	Peak
3	5182.470	93.35	-0.38	92.97	-----	-----	Average
4	5182.470	103.26	-0.38	102.88	-----	-----	Peak

Vertical

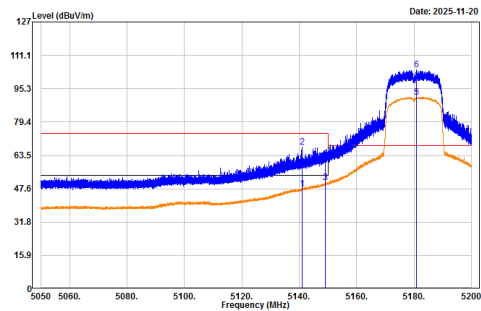


Trace: 1
Site : LK-966A
Condition: 3m Vertical
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 19°C / 48%
Memo : AC20-TX-5180
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit	Over	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	5149.705	52.31	-0.42	51.89	54.00	-2.11	Average
2	5149.705	67.86	-0.42	67.44	74.00	-6.56	Peak
3	5183.755	93.30	-0.37	92.93	-----	-----	Average
4	5183.755	103.21	-0.37	102.84	-----	-----	Peak

802.11 ax20 Mode, 5180 MHz

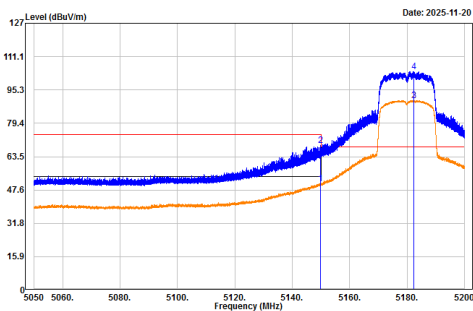
Horizontal



Trace: 1
Site : LK-966A
Condition: 3m Horizontal
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 19°C / 48%
Memo : AX20-TX-5180
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit	Over	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	5140.950	48.08	-0.44	47.64	54.00	-6.36	Average
2	5140.950	67.80	-0.44	67.36	74.00	-6.64	Peak
3	5148.980	50.97	-0.42	50.55	54.00	-3.45	Average
4	5148.980	62.79	-0.42	62.37	74.00	-11.63	Peak
5	5180.950	91.52	-0.38	91.14	-----	-----	Average
6	5180.950	104.66	-0.38	104.28	-----	-----	Peak

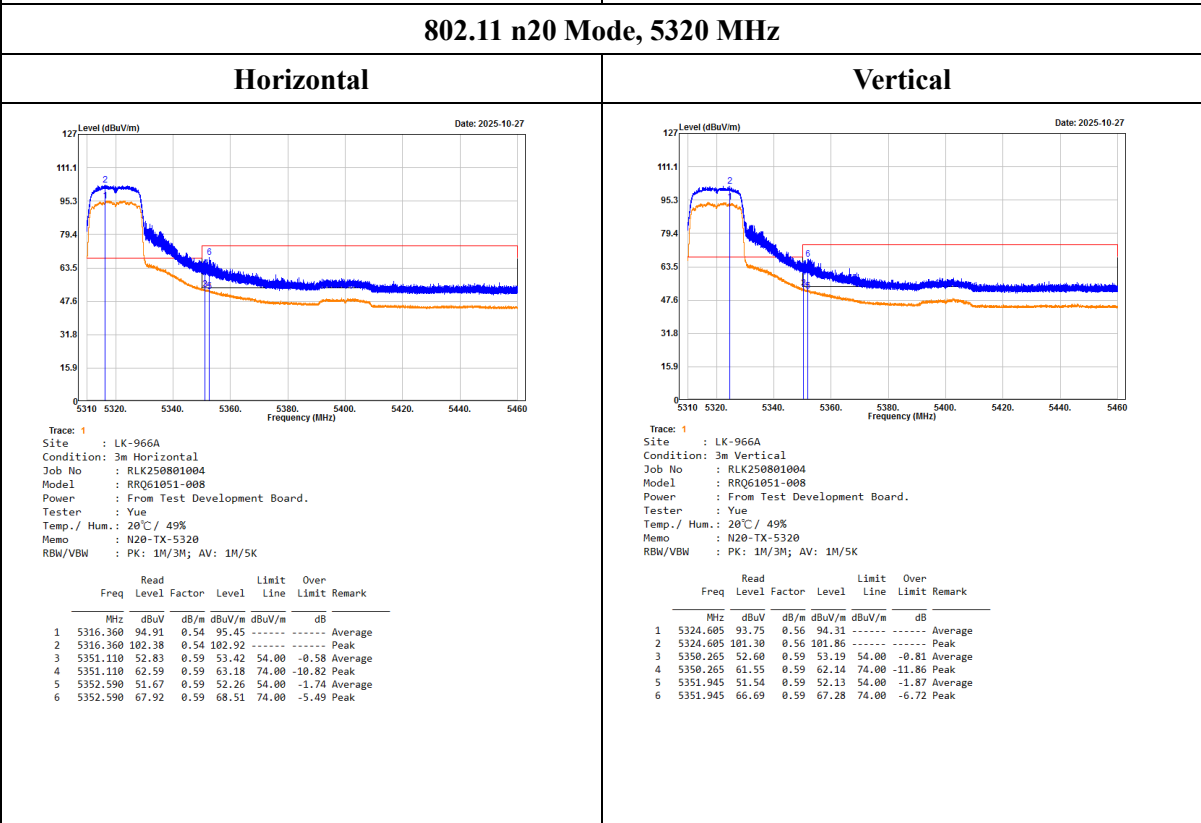
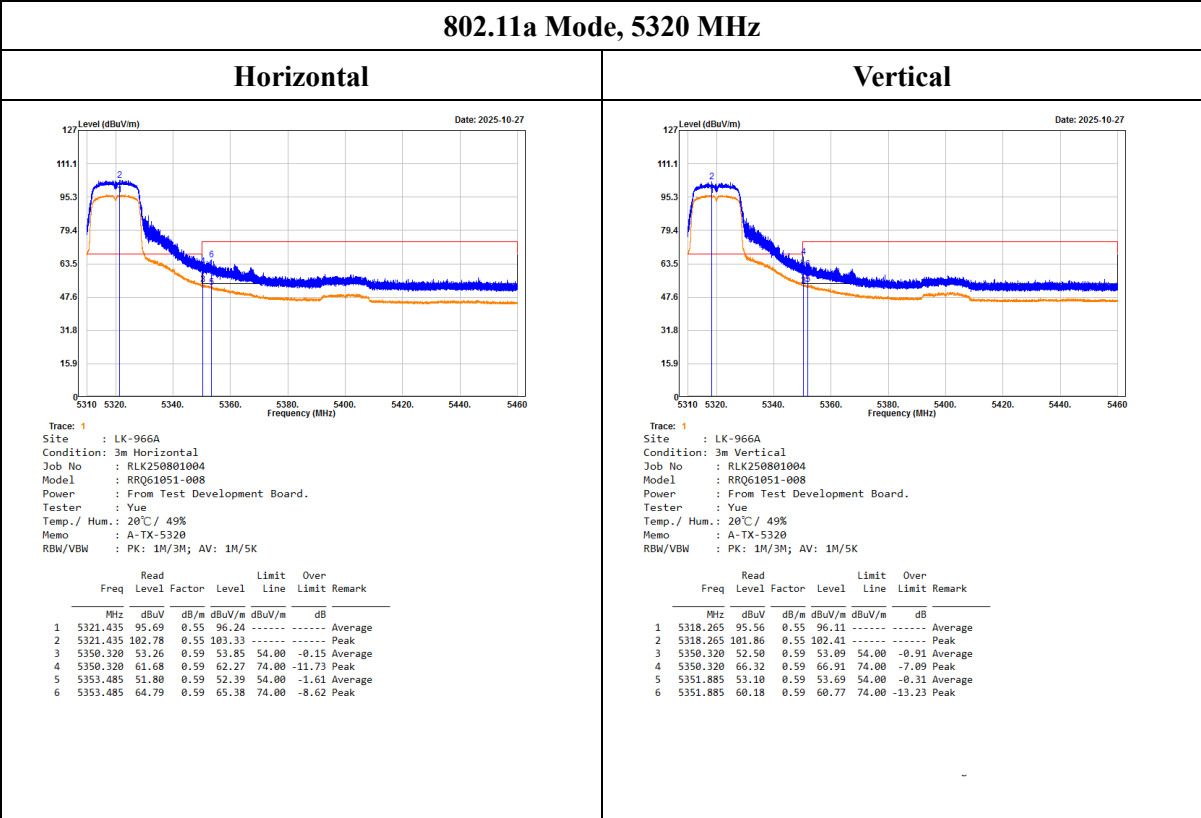
Vertical



Trace: 1
Site : LK-966A
Condition: 3m Vertical
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 19°C / 48%
Memo : AX20-TX-5180
RBW/VBW : PK: 1M/3M; AV: 1M/3K

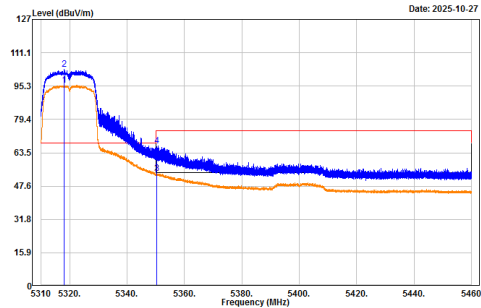
	Freq	Read Level	Factor	Level	Limit	Over	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	5149.740	51.00	-0.42	50.58	54.00	-3.42	Average
2	5149.740	69.36	-0.42	68.94	74.00	-5.06	Peak
3	5182.460	90.65	-0.38	90.27	-----	-----	Average
4	5182.460	104.31	-0.38	103.93	-----	-----	Peak

UNII-2A Band II 5250~5350 MHz



802.11 ac20 Mode, 5320 MHz

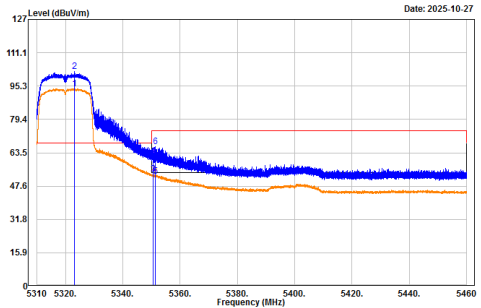
Horizontal



Trace: 1
Site : LK-966A
Condition: 3m Horizontal
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 20°C / 49%
Memo : AC20-TX-5320
RBW/VBW : PK: 1M/3M; AV: 1M/5K

	Freq	Read Level	Factor	Level	Limit	Over	Remark
	MHz	dBuV		dB/m	dBuV/m	dB	
1	5318.095	95.03	0.55	95.58	-----	-----	Average
2	5318.095	102.67	0.55	103.22	-----	-----	Peak
3	5350.360	53.00	0.59	53.59	54.00	-0.41	Average
4	5350.360	66.06	0.59	66.65	74.00	-7.35	Peak

Vertical

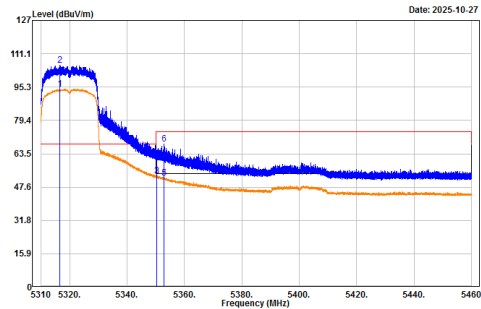


Trace: 1
Site : LK-966A
Condition: 3m Vertical
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 20°C / 49%
Memo : AC20-TX-5320
RBW/VBW : PK: 1M/3M; AV: 1M/5K

	Freq	Read Level	Factor	Level	Limit	Over	Remark
	MHz	dBuV		dB/m	dBuV/m	dB	
1	5323.100	93.56	0.56	94.12	-----	-----	Average
2	5323.100	101.83	0.56	102.39	-----	-----	Peak
3	5350.545	52.89	0.59	53.48	54.00	-0.52	Average
4	5350.545	61.23	0.59	61.82	74.00	-12.18	Peak
5	5351.480	51.88	0.59	52.47	54.00	-1.53	Average
6	5351.480	65.80	0.59	66.39	74.00	-7.61	Peak

802.11 ax20 Mode, 5320 MHz

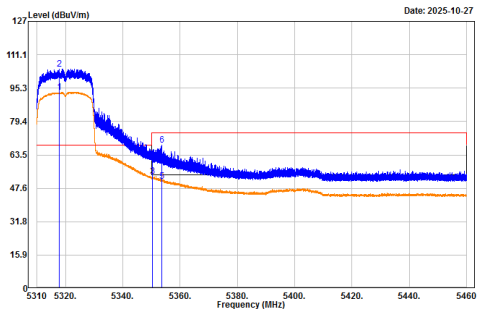
Horizontal



Trace: 1
Site : LK-966A
Condition: 3m Horizontal
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 20°C / 49%
Memo : AX20-TX-5320
RBW/VBW : PK: 1M/3M; AV: 1M/5K

	Freq	Read Level	Factor	Level	Limit	Over	Remark
	MHz	dBuV		dB/m	dBuV/m	dB	
1	5316.595	93.86	0.54	94.40	-----	-----	Average
2	5316.595	105.14	0.54	105.68	-----	-----	Peak
3	5350.310	52.41	0.59	53.00	54.00	-1.00	Average
4	5350.310	60.75	0.59	61.34	74.00	-12.66	Peak
5	5352.930	51.53	0.59	52.12	54.00	-1.88	Average
6	5352.930	67.41	0.59	68.00	74.00	-6.00	Peak

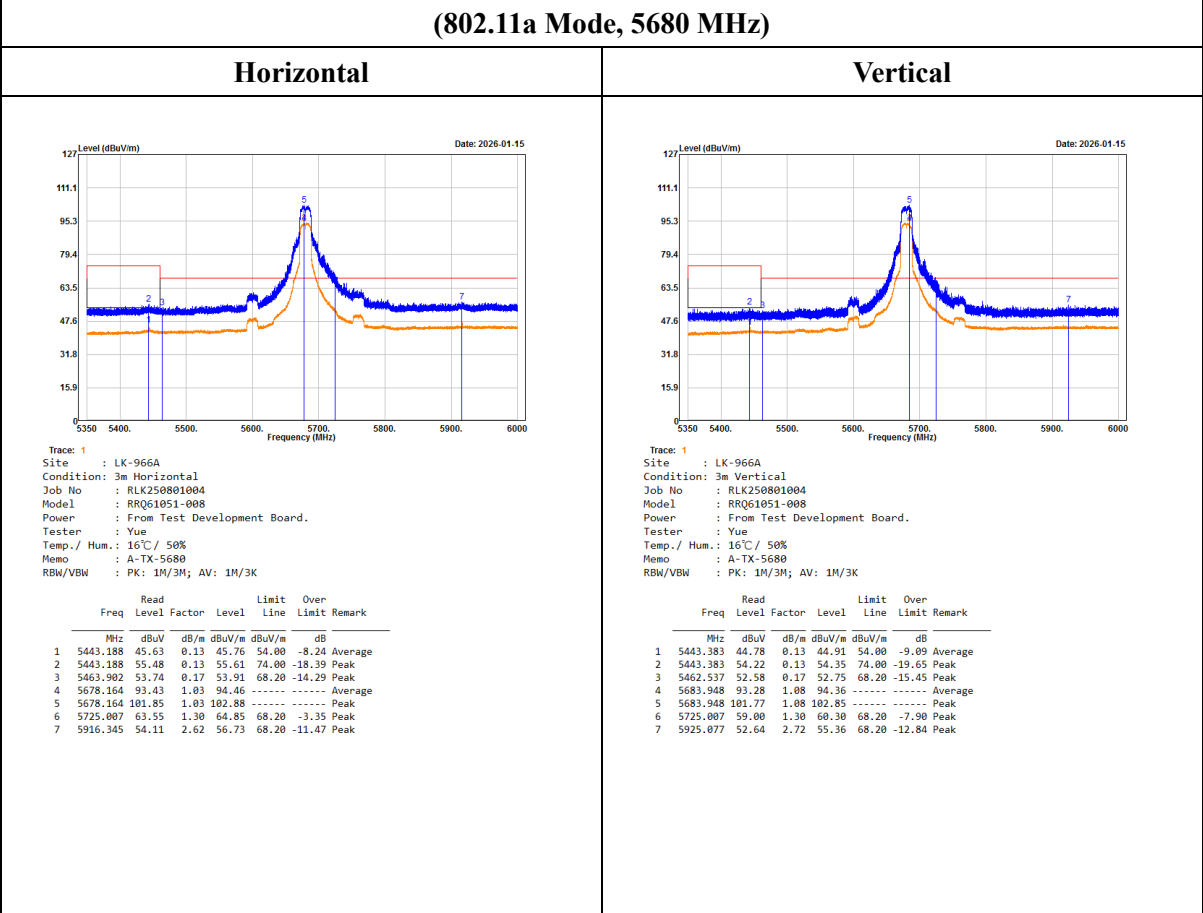
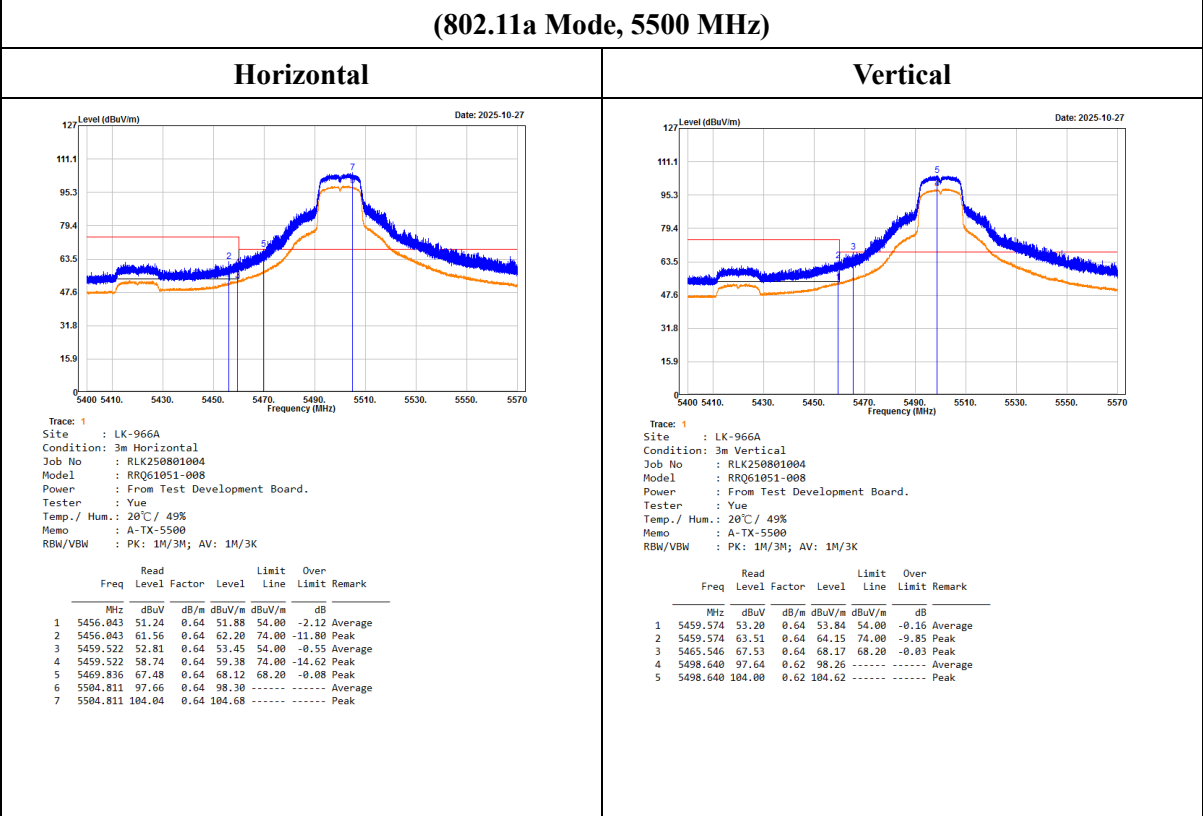
Vertical



Trace: 1
Site : LK-966A
Condition: 3m Vertical
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 20°C / 49%
Memo : AX20-TX-5320
RBW/VBW : PK: 1M/3M; AV: 1M/5K

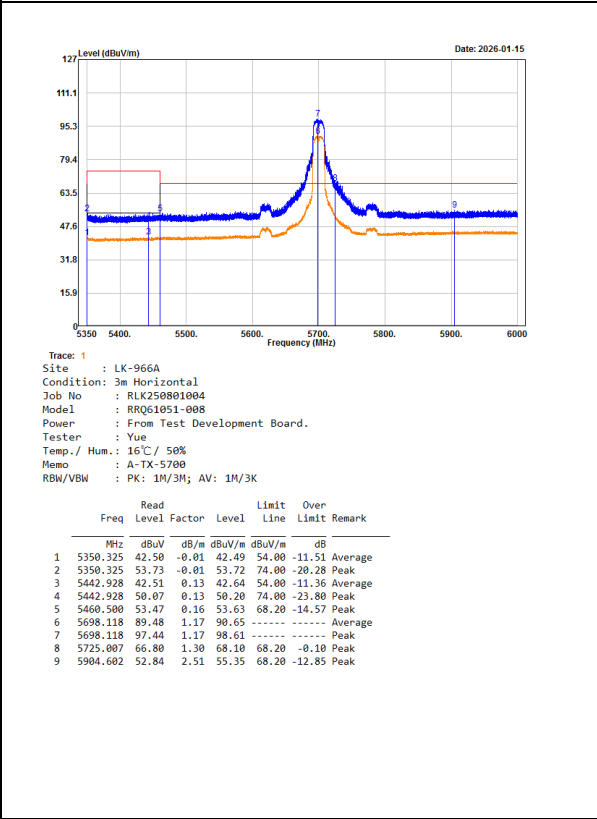
	Freq	Read Level	Factor	Level	Limit	Over	Remark
	MHz	dBuV		dB/m	dBuV/m	dB	
1	5317.900	92.87	0.55	93.42	-----	-----	Average
2	5317.900	103.75	0.55	104.30	-----	-----	Peak
3	5350.450	52.74	0.59	53.33	54.00	-0.67	Average
4	5350.450	61.31	0.59	61.90	74.00	-12.10	Peak
5	5353.735	50.18	0.59	50.77	54.00	-3.23	Average
6	5353.735	67.66	0.59	68.25	74.00	-5.75	Peak

UNII-2C Band III 5470-5725 MHz

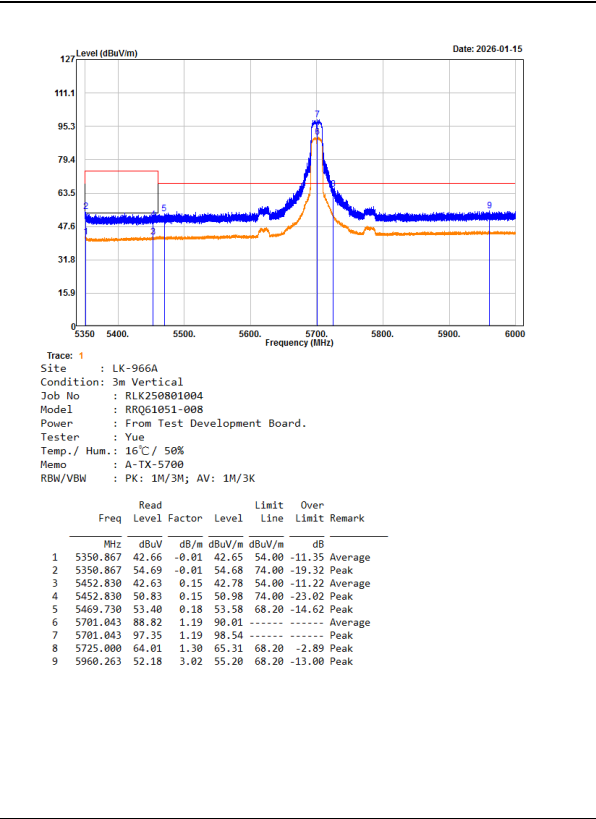


(802.11a Mode, 5700 MHz)

Horizontal

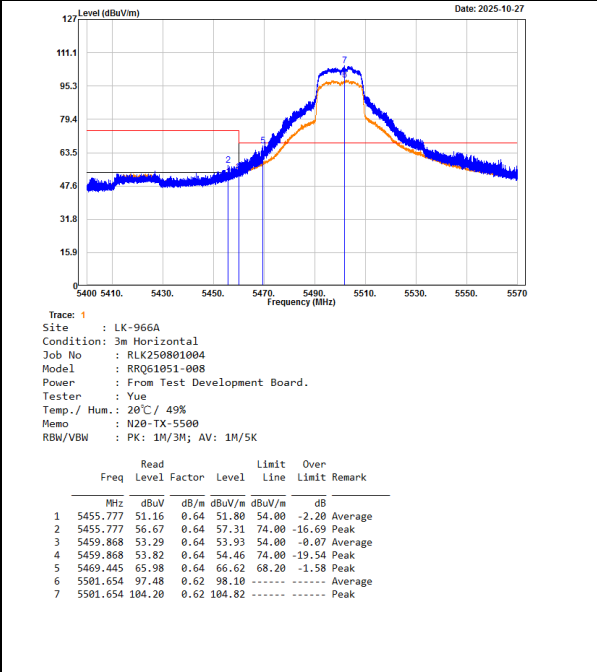


Vertical

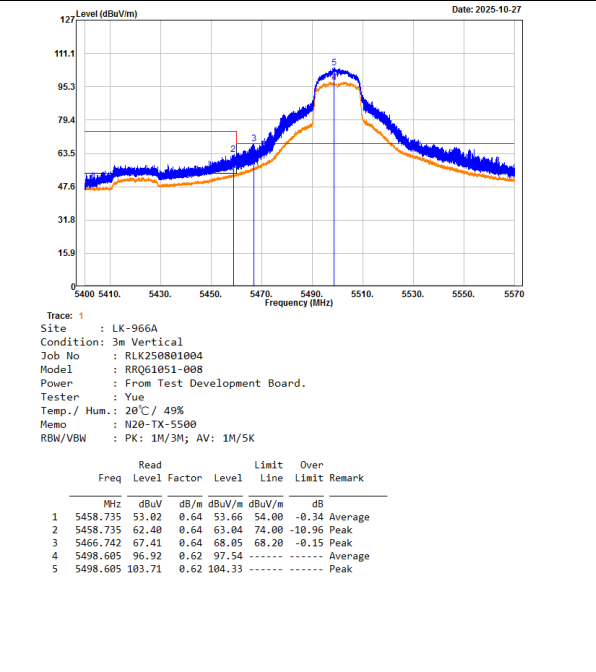


(802.11 n20 Mode, 5500 MHz)

Horizontal

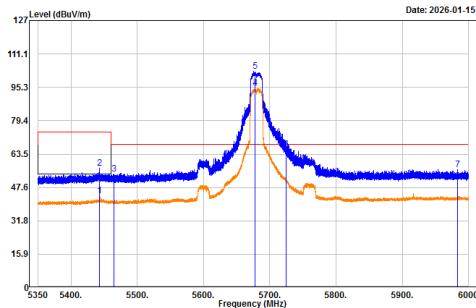


Vertical



(802.11 n20 Mode, 5680 MHz)

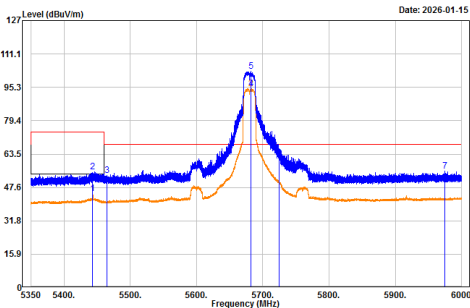
Horizontal



Trace: 1
Site : LK-966A
Condition: 3m Horizontal
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 16°C / 50%
Memo : N20-TX-5680
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Read				Limit	Over
Freq	Level	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1 5443.318	43.43	0.13	43.56	54.00	-10.44	Average
2 5443.318	56.67	0.13	56.80	74.00	-17.20	Peak
3 5464.898	53.96	0.17	54.13	68.20	-14.07	Peak
4 5677.275	94.03	1.03	95.06	-----	-----	Average
5 5677.275	101.80	1.03	102.83	-----	-----	Peak
6 5725.007	64.44	1.30	65.74	68.20	-2.46	Peak
7 5983.403	53.18	3.08	56.26	68.20	-11.94	Peak

Vertical

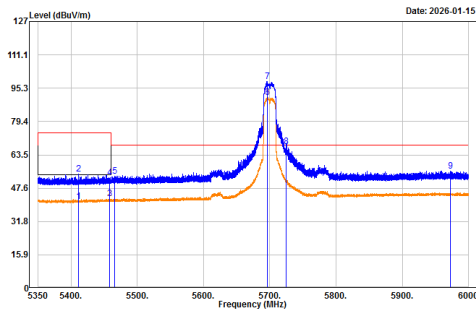


Trace: 1
Site : LK-966A
Condition: 3m Vertical
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 16°C / 50%
Memo : N20-TX-5680
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Read				Limit	Over
Freq	Level	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1 5443.231	44.59	0.13	44.72	54.00	-9.28	Average
2 5443.231	54.97	0.13	55.10	74.00	-18.90	Peak
3 5464.508	53.15	0.17	53.32	68.20	-14.88	Peak
4 5682.323	93.62	1.07	94.69	-----	-----	Average
5 5682.323	101.72	1.07	102.79	-----	-----	Peak
6 5725.007	60.23	1.30	61.53	68.20	-6.67	Peak
7 5974.499	52.43	3.06	55.49	68.20	-12.71	Peak

(802.11 n20 Mode, 5700 MHz)

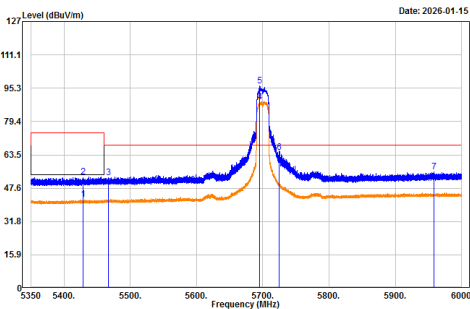
Horizontal



Trace: 1
Site : LK-966A
Condition: 3m Horizontal
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 16°C / 50%
Memo : N20-TX-5700
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Read				Limit	Over
Freq	Level	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1 5411.251	41.05	0.08	41.13	54.00	-12.87	Average
2 5411.251	54.14	0.08	54.22	74.00	-19.78	Peak
3 5458.138	42.39	0.16	42.55	54.00	-11.45	Average
4 5458.138	52.58	0.16	52.74	74.00	-21.26	Peak
5 5466.025	53.19	0.17	53.36	68.20	-14.84	Peak
6 5695.822	89.64	1.15	90.79	-----	-----	Average
7 5695.822	97.36	1.15	98.51	-----	-----	Peak
8 5725.007	66.30	1.30	67.60	68.20	-0.60	Peak
9 5972.570	52.72	3.06	55.78	68.20	-12.42	Peak

Vertical

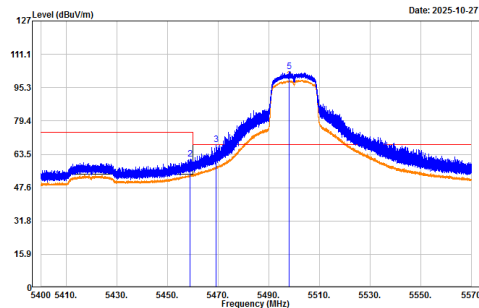


Trace: 1
Site : LK-966A
Condition: 3m Vertical
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 16°C / 50%
Memo : N20-TX-5700
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Read				Limit	Over
Freq	Level	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1 5428.412	42.27	0.11	42.38	54.00	-11.62	Average
2 5428.412	52.91	0.11	53.02	74.00	-20.98	Peak
3 5467.499	52.61	0.17	52.78	68.20	-15.42	Peak
4 5695.692	87.78	1.15	88.93	-----	-----	Average
5 5695.692	95.21	1.15	96.36	-----	-----	Peak
6 5725.007	63.38	1.30	64.68	68.20	-3.52	Peak
7 5958.898	52.23	3.01	55.24	68.20	-12.96	Peak

(802.11 ac20 Mode, 5500 MHz)

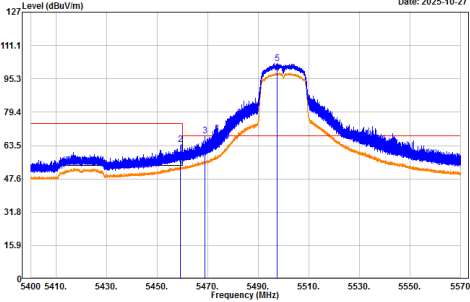
Horizontal



Trace: 1
Site : LK-966A
Condition: 3m Horizontal
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 20°C / 49%
Memo : AC20-TX-5500
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Read			Limit	Over	
Freq	Level	Factor	Level	Line	Limit	Remark
MHz	dBuV		dB/m	dBuV/m	dB	
1 5458.990	53.32	0.64	53.96	54.00	-0.04	Average
2 5458.990	60.56	0.64	61.20	74.00	-12.80	Peak
3 5469.281	67.53	0.64	68.17	68.20	-0.03	Peak
4 5498.062	98.20	0.62	98.82	-----	-----	Average
5 5498.062	102.17	0.62	102.79	-----	-----	Peak

Vertical

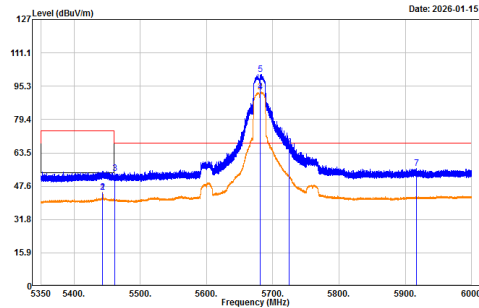


Trace: 1
Site : LK-966A
Condition: 3m Vertical
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 20°C / 49%
Memo : AC20-TX-5500
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Read			Limit	Over	
Freq	Level	Factor	Level	Line	Limit	Remark
MHz	dBuV		dB/m	dBuV/m	dB	
1 5459.262	52.80	0.64	53.44	54.00	-0.56	Average
2 5459.262	63.31	0.64	63.95	74.00	-10.05	Peak
3 5468.998	67.46	0.64	68.10	68.20	-0.10	Peak
4 5497.427	97.42	0.62	98.04	-----	-----	Average
5 5497.427	102.11	0.62	102.73	-----	-----	Peak

(802.11 ac20 Mode, 5680 MHz)

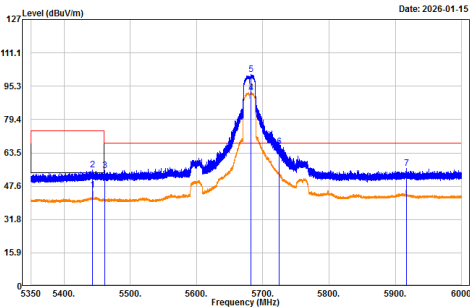
Horizontal



Trace: 1
Site : LK-966A
Condition: 3m Horizontal
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 16°C / 50%
Memo : AC20-TX-5680
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Read			Limit	Over	
Freq	Level	Factor	Level	Line	Limit	Remark
MHz	dBuV		dB/m	dBuV/m	dB	
1 5443.275	44.66	0.13	44.79	54.00	-9.21	Average
2 5443.275	44.66	0.13	44.79	74.00	-29.21	Peak
3 5461.106	53.67	0.16	53.83	68.20	-14.37	Peak
4 5681.370	91.48	1.06	92.54	-----	-----	Average
5 5681.370	99.71	1.06	100.77	-----	-----	Peak
6 5725.007	64.67	1.30	65.97	68.20	-2.23	Peak
7 5916.973	53.38	2.64	56.02	68.20	-12.18	Peak

Vertical

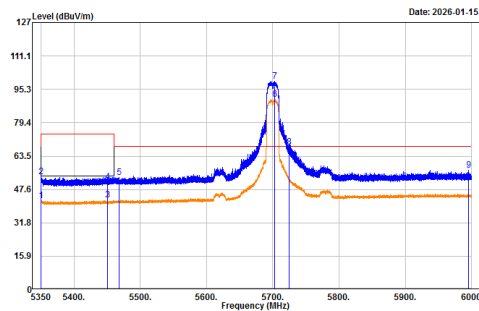


Trace: 1
Site : LK-966A
Condition: 3m Vertical
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 16°C / 50%
Memo : AC20-TX-5680
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Read			Limit	Over	
Freq	Level	Factor	Level	Line	Limit	Remark
MHz	dBuV		dB/m	dBuV/m	dB	
1 5443.231	45.76	0.13	45.89	54.00	-8.11	Average
2 5443.231	55.23	0.13	55.36	74.00	-18.64	Peak
3 5461.323	54.89	0.16	55.05	68.20	-13.15	Peak
4 5681.673	91.15	1.06	92.21	-----	-----	Average
5 5681.673	99.62	1.06	100.68	-----	-----	Peak
6 5725.007	65.04	1.30	66.34	68.20	-1.86	Peak
7 5916.757	53.49	2.63	56.12	68.20	-12.08	Peak

(802.11 ac20 Mode, 5700 MHz)

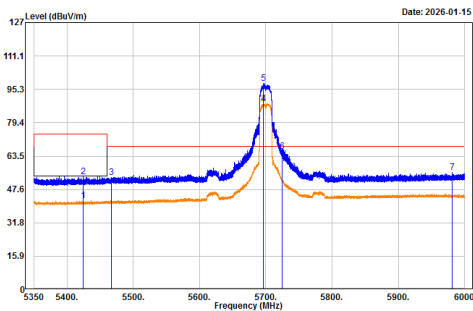
Horizontal



Trace: 1
Site : LK-966A
Condition: 3m Horizontal
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 19°C / 56%
Memo : AC20-TX-5700
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Read				Limit	Over	
	Freq	Level	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	5350.260	42.26	-0.01	42.25	54.00	-11.75	Average
2	5350.260	53.57	-0.01	53.56	74.00	-20.44	Peak
3	5450.880	42.70	0.14	42.84	54.00	-11.16	Average
4	5450.880	51.29	0.14	51.43	74.00	-22.57	Peak
5	5467.932	53.21	0.18	53.39	68.20	-14.81	Peak
6	5702.539	89.20	1.20	90.40	-----	-----	Average
7	5702.539	98.04	1.20	99.24	-----	-----	Peak
8	5725.007	66.62	1.30	67.92	68.20	-0.28	Peak
9	5995.146	53.75	3.11	56.86	68.20	-11.34	Peak

Vertical

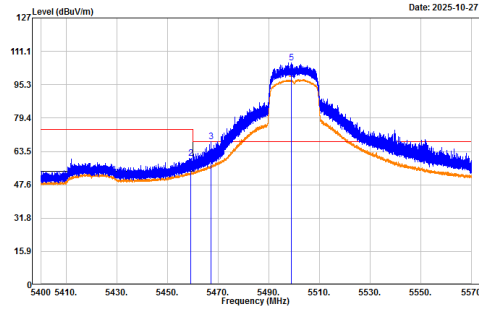


Trace: 1
Site : LK-966A
Condition: 3m Vertical
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 19°C / 56%
Memo : AC20-TX-5700
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Read				Limit	Over	
	Freq	Level	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	5424.707	42.07	0.11	42.18	54.00	-11.82	Average
2	5424.707	53.65	0.11	53.76	74.00	-20.24	Peak
3	5467.000	53.06	0.17	53.23	68.20	-14.97	Peak
4	5696.298	87.36	1.17	88.53	-----	-----	Average
5	5696.298	96.79	1.17	97.96	-----	-----	Peak
6	5725.007	64.29	1.30	65.59	68.20	-2.61	Peak
7	5981.193	52.69	3.08	55.77	68.20	-12.43	Peak

(802.11 ax20 Mode, 5500 MHz)

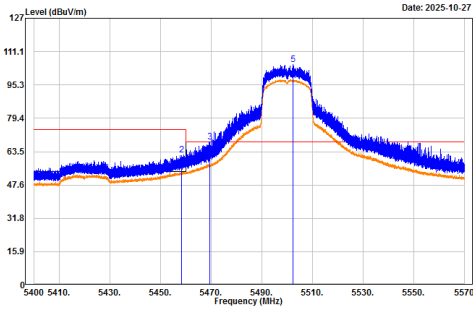
Horizontal



Trace: 1
Site : LK-966A
Condition: 3m Horizontal
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 20°C / 49%
Memo : AX20-TX-5500
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Read				Limit	Over	
	Freq	Level	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	5459.063	52.90	0.64	53.54	54.00	-0.46	Average
2	5459.063	59.63	0.64	60.27	74.00	-13.73	Peak
3	5467.275	67.47	0.64	68.11	68.20	-0.09	Peak
4	5498.940	97.14	0.62	97.76	-----	-----	Average
5	5498.940	105.07	0.62	105.69	-----	-----	Peak

Vertical

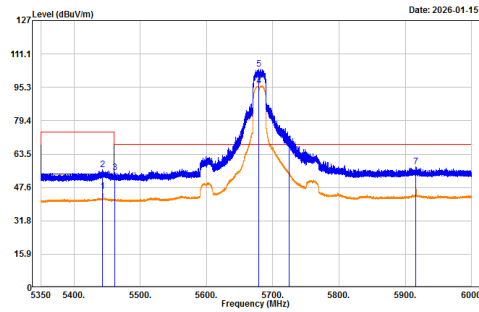


Trace: 1
Site : LK-966A
Condition: 3m Vertical
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 20°C / 49%
Memo : AX20-TX-5500
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Read				Limit	Over	
	Freq	Level	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	5458.248	53.18	0.64	53.82	54.00	-0.18	Average
2	5458.248	61.41	0.64	62.05	74.00	-11.95	Peak
3	5469.428	67.48	0.64	68.12	68.20	-0.08	Peak
4	5502.221	97.06	0.62	97.68	-----	-----	Average
5	5502.221	104.23	0.62	104.85	-----	-----	Peak

(802.11 ax20 Mode, 5680 MHz)

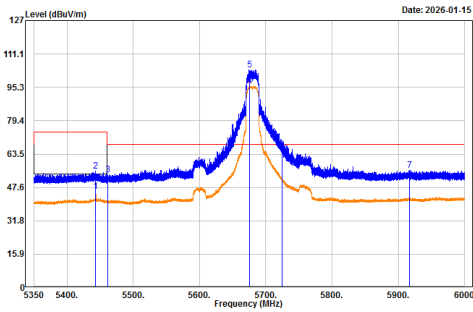
Horizontal



Trace: 1
Site : LK-966A
Condition: 3m Horizontal
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 16°C / 50%
Memo : AX20-TX-5680
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Read				Limit	Over	
	Freq	Level	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	5443.275	45.60	0.13	45.73	54.00	-8.27	Average
2	5443.275	56.02	0.13	56.15	74.00	-17.85	Peak
3	5461.620	54.73	0.16	54.89	68.20	-13.31	Peak
4	5678.943	94.98	1.04	96.02	-----	-----	Average
5	5678.943	102.84	1.04	103.88	-----	-----	Peak
6	5725.007	66.53	1.30	67.83	68.20	-0.37	Peak
7	5916.258	54.80	2.62	57.42	68.20	-10.78	Peak

Vertical

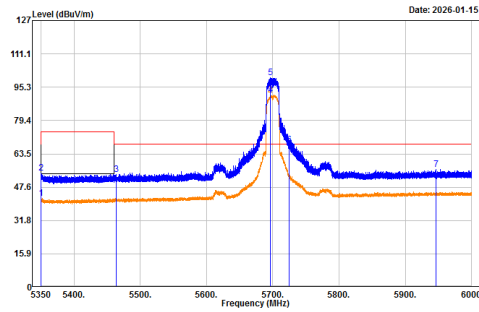


Trace: 1
Site : LK-966A
Condition: 3m Vertical
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 16°C / 50%
Memo : AX20-TX-5680
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Read				Limit	Over	
	Freq	Level	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	5443.231	45.49	0.13	45.62	54.00	-8.38	Average
2	5443.231	55.42	0.13	55.55	74.00	-18.45	Peak
3	5461.930	53.58	0.16	53.74	68.20	-14.46	Peak
4	5675.932	94.85	1.02	95.87	-----	-----	Average
5	5675.932	102.68	1.02	103.70	-----	-----	Peak
6	5725.007	62.85	1.30	64.15	68.20	-4.05	Peak
7	5916.562	53.04	2.62	55.66	68.20	-12.54	Peak

(802.11 ax20 Mode, 5700 MHz)

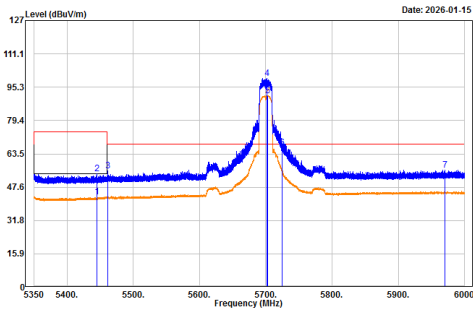
Horizontal



Trace: 1
Site : LK-966A
Condition: 3m Horizontal
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 16°C / 50%
Memo : AX20-TX-5700
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Read				Limit	Over	
	Freq	Level	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	5350.152	42.27	-0.01	42.26	54.00	-11.74	Average
2	5350.152	54.40	-0.01	54.39	74.00	-19.61	Peak
3	5464.032	53.54	0.17	53.71	68.20	-14.49	Peak
4	5696.602	90.26	1.17	91.43	-----	-----	Average
5	5696.602	98.74	1.17	99.91	-----	-----	Peak
6	5725.007	66.36	1.30	67.66	68.20	-0.54	Peak
7	5946.548	53.27	2.95	56.22	68.20	-11.98	Peak

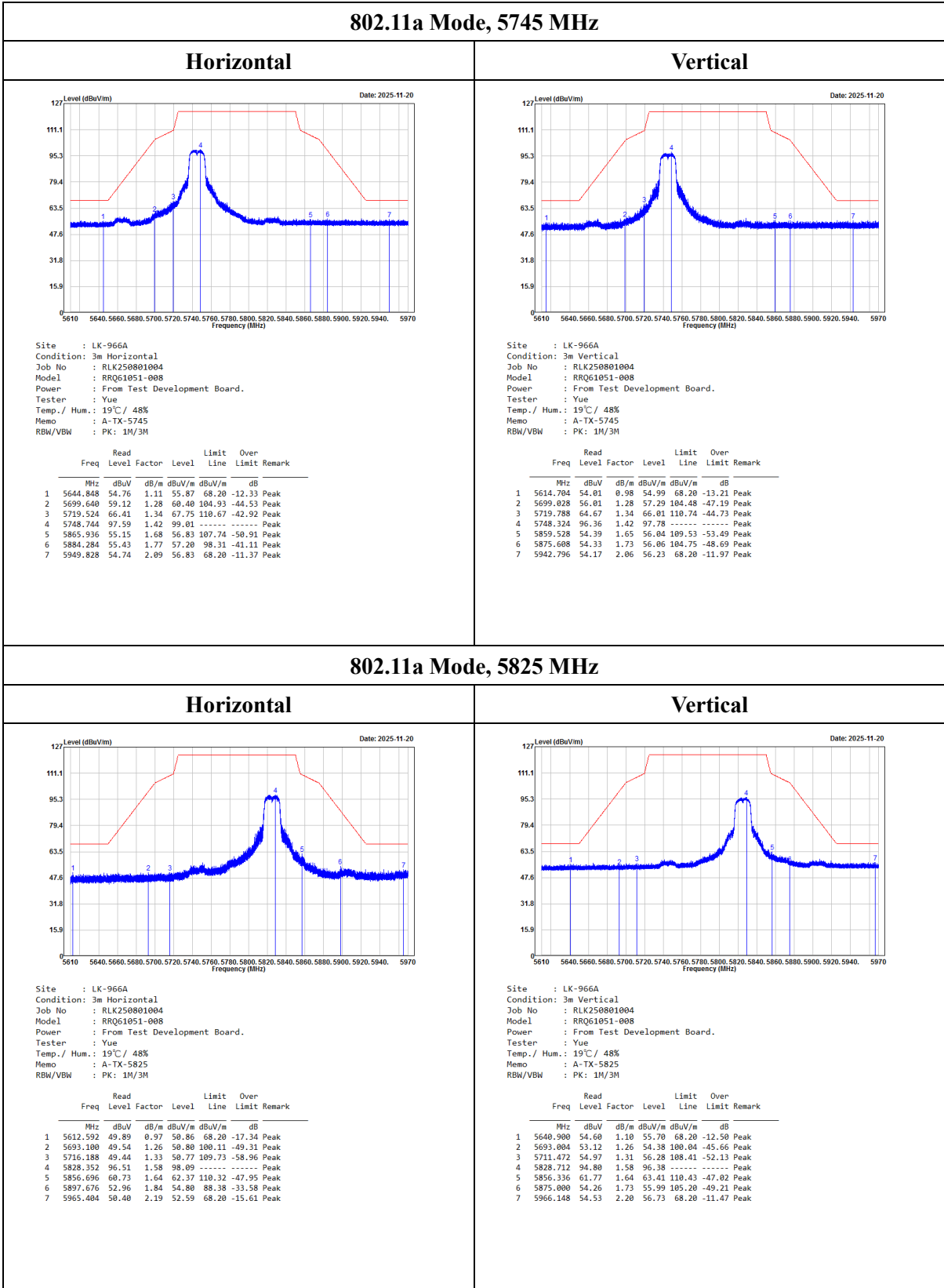
Vertical



Trace: 1
Site : LK-966A
Condition: 3m Vertical
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 16°C / 50%
Memo : AX20-TX-5700
RBW/VBW : PK: 1M/3M; AV: 1M/3K

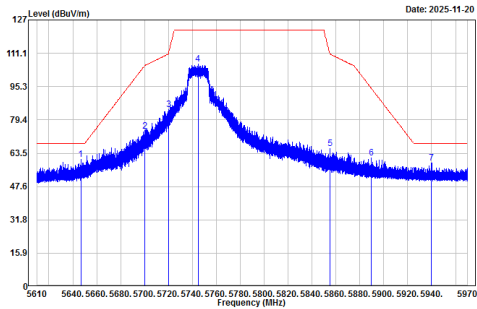
	Read				Limit	Over	
	Freq	Level	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	5444.618	43.02	0.13	43.15	54.00	-10.85	Average
2	5444.618	53.85	0.13	53.98	74.00	-20.02	Peak
3	5461.215	55.26	0.16	55.42	68.20	-12.78	Peak
4	5702.213	98.14	1.19	99.33	-----	-----	Peak
5	5703.362	90.07	1.20	91.27	-----	-----	Average
6	5725.007	65.07	1.30	66.37	68.20	-1.83	Peak
7	5970.251	52.68	3.04	55.72	68.20	-12.48	Peak

UNII-3 Band IV 5725-5850 MHz



802.11 n20 Mode, 5745 MHz

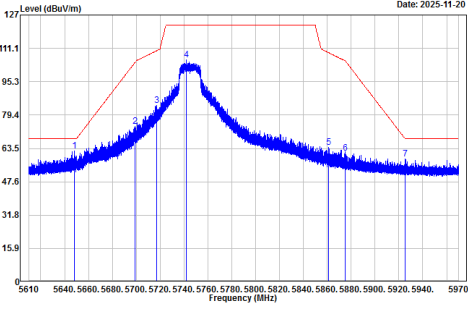
Horizontal



Site : LK-966A
Condition: 3m horizontal
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 19℃ / 48%
Memo : N20-TX-5745
RBW/VBW : PK: 1M/3M

	Read		Limit	Over	
Freq	Level	Factor	Level	Line	Remark
MHz	dBuV		dB/m	dBuV/m	dB
1 5646.672	59.46	1.13	60.59	68.20	-7.61 Peak
2 5699.928	72.81	1.28	74.09	105.15	-31.06 Peak
3 5719.920	82.90	1.34	84.24	110.78	-26.54 Peak
4 5744.640	104.51	1.41	105.92	-----	Peak
5 5855.040	64.07	1.64	65.71	110.79	-45.08 Peak
6 5889.480	59.49	1.80	61.29	94.45	-33.16 Peak
7 5939.508	56.94	2.04	58.98	68.20	-9.22 Peak

Vertical

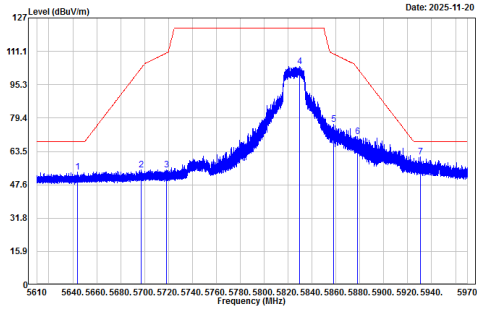


Site : LK-966A
Condition: 3m vertical
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 19℃ / 48%
Memo : N20-TX-5745
RBW/VBW : PK: 1M/3M

	Read		Limit	Over	
Freq	Level	Factor	Level	Line	Remark
MHz	dBuV		dB/m	dBuV/m	dB
1 5648.160	61.32	1.14	62.46	68.20	-5.74 Peak
2 5698.848	72.55	1.28	73.83	104.35	-30.52 Peak
3 5717.028	82.79	1.33	84.12	109.97	-25.85 Peak
4 5741.676	104.15	1.40	105.55	-----	Peak
5 5861.100	62.37	1.65	64.02	109.09	-45.07 Peak
6 5875.164	59.63	1.73	61.36	105.08	-43.72 Peak
7 5925.036	56.54	1.97	58.51	68.20	-9.69 Peak

802.11 n20 Mode, 5825 MHz

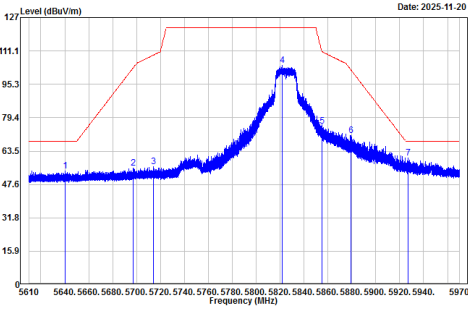
Horizontal



Site : LK-966A
Condition: 3m horizontal
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 19℃ / 48%
Memo : N20-TX-5825
RBW/VBW : PK: 1M/3M

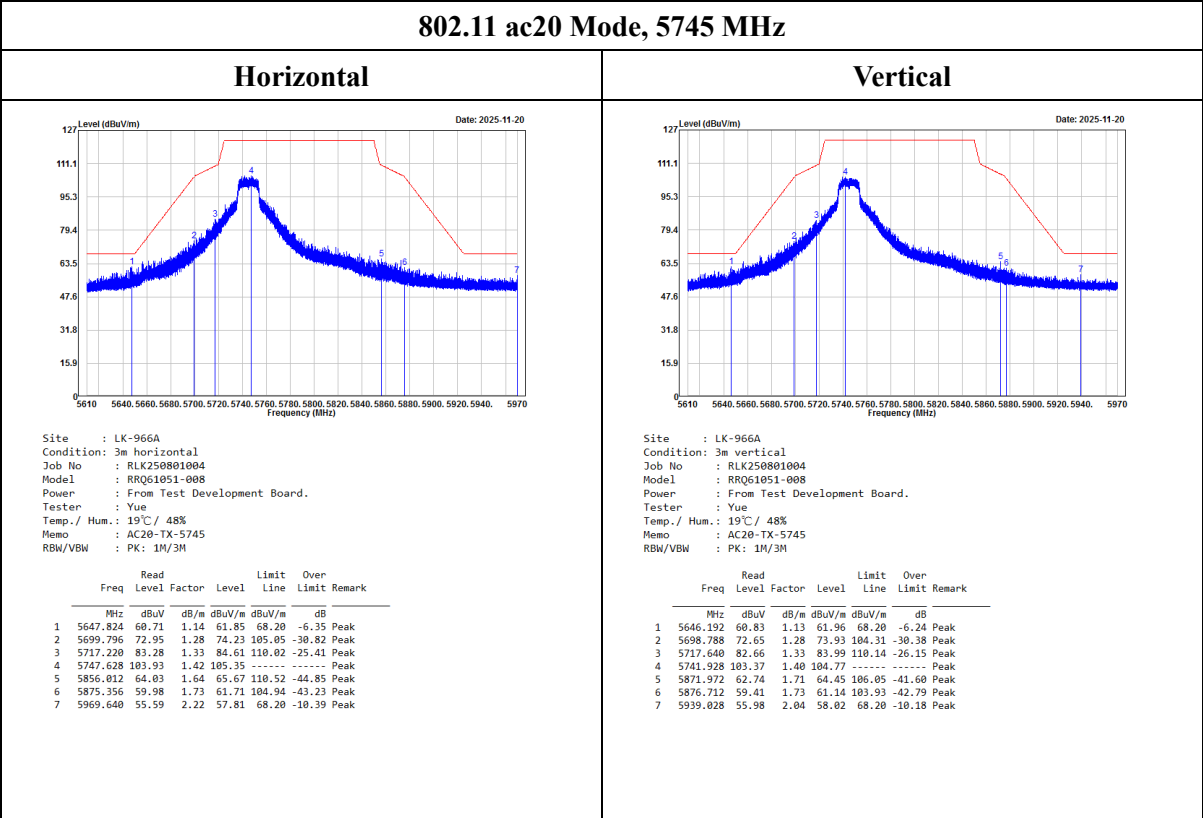
	Read		Limit	Over	
Freq	Level	Factor	Level	Line	Remark
MHz	dBuV		dB/m	dBuV/m	dB
1 5644.164	52.72	1.11	53.83	68.20	-14.37 Peak
2 5697.048	53.56	1.28	54.84	103.02	-48.18 Peak
3 5718.312	53.50	1.33	54.83	110.33	-55.50 Peak
4 5829.576	102.33	1.59	103.92	-----	Peak
5 5857.908	74.78	1.65	76.43	109.98	-33.55 Peak
6 5878.296	68.85	1.74	70.59	102.75	-32.16 Peak
7 5930.808	58.93	2.00	60.93	68.20	-7.27 Peak

Vertical



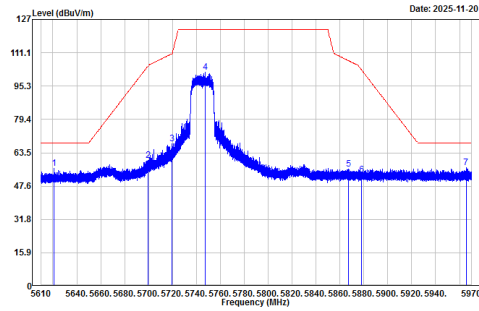
Site : LK-966A
Condition: 3m vertical
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 19℃ / 48%
Memo : N20-TX-5825
RBW/VBW : PK: 1M/3M

	Read		Limit	Over	
Freq	Level	Factor	Level	Line	Remark
MHz	dBuV		dB/m	dBuV/m	dB
1 5640.192	52.87	1.10	53.97	68.20	-14.23 Peak
2 5697.000	54.12	1.28	55.40	102.99	-47.59 Peak
3 5714.040	54.69	1.33	56.02	109.13	-53.11 Peak
4 5821.776	102.54	1.59	104.13	-----	Peak
5 5855.256	73.66	1.64	75.30	110.73	-35.43 Peak
6 5879.052	69.29	1.74	71.03	102.19	-31.16 Peak
7 5927.148	58.14	1.97	60.11	68.20	-8.09 Peak



802.11 ax20 Mode, 5745 MHz

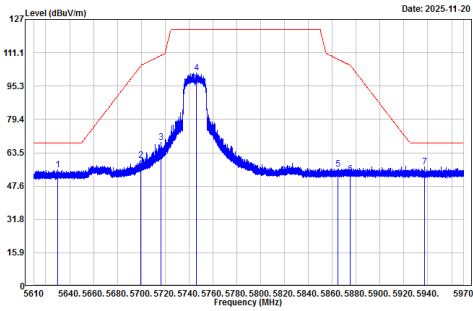
Horizontal



Site : LK-966A
Condition: 3m Horizontal
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 19°C / 48%
Memo : AX20-TX-5745
RBW/VBW : PK: 1M/3M

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV		dB/m	dBuV/m	dB	
1	5620.920	55.17	1.01	56.18	68.20	-12.02	Peak
2	5699.676	58.56	1.28	59.84	104.96	-45.12	Peak
3	5719.488	66.29	1.34	67.63	110.66	-43.03	Peak
4	5747.364	100.30	1.42	101.72	-----	-----	Peak
5	5867.040	54.00	1.68	55.68	107.43	-51.75	Peak
6	5877.996	51.25	1.74	52.99	102.97	-49.98	Peak
7	5965.428	54.27	2.19	56.46	68.20	-11.74	Peak

Vertical

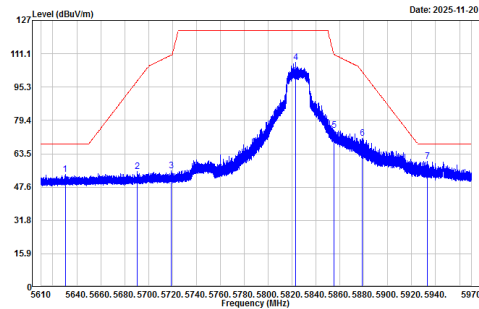


Site : LK-966A
Condition: 3m Vertical
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 19°C / 48%
Memo : AX20-TX-5745
RBW/VBW : PK: 1M/3M

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV		dB/m	dBuV/m	dB	
1	5630.172	54.21	1.05	55.26	68.20	-12.94	Peak
2	5699.604	58.45	1.28	59.73	104.91	-45.18	Peak
3	5716.284	67.17	1.33	68.50	109.76	-41.26	Peak
4	5746.044	100.22	1.42	101.64	-----	-----	Peak
5	5864.712	54.20	1.68	55.88	108.08	-52.20	Peak
6	5874.996	51.50	1.73	53.23	105.20	-51.97	Peak
7	5937.396	54.72	2.02	56.74	68.20	-11.46	Peak

802.11 ax20 Mode, 5825 MHz

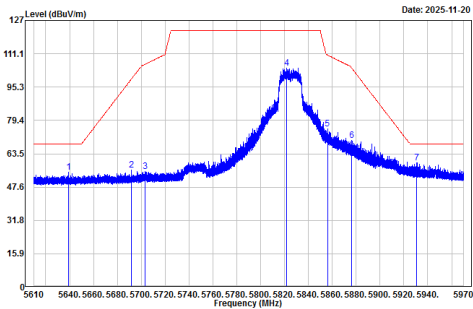
Horizontal



Site : LK-966A
Condition: 3m horizontal
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 19°C / 48%
Memo : AX20-TX-5825
RBW/VBW : PK: 1M/3M

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV		dB/m	dBuV/m	dB	
1	5630.328	52.67	1.05	53.72	68.20	-14.48	Peak
2	5690.328	53.69	1.26	54.95	98.07	-43.12	Peak
3	5718.768	54.25	1.33	55.58	110.46	-54.88	Peak
4	5822.728	105.45	1.58	107.03	-----	-----	Peak
5	5855.052	73.13	1.64	74.77	110.79	-36.02	Peak
6	5878.680	69.26	1.74	71.00	102.47	-31.47	Peak
7	5933.040	58.03	2.01	60.04	68.20	-8.16	Peak

Vertical



Site : LK-966A
Condition: 3m vertical
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 19°C / 48%
Memo : AX20-TX-5825
RBW/VBW : PK: 1M/3M

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV		dB/m	dBuV/m	dB	
1	5639.004	53.48	1.10	54.58	68.20	-13.62	Peak
2	5691.816	54.33	1.26	55.59	99.17	-43.58	Peak
3	5703.060	53.76	1.29	55.05	106.06	-51.01	Peak
4	5821.632	102.66	1.59	104.25	-----	-----	Peak
5	5855.952	73.89	1.64	75.53	110.53	-35.00	Peak
6	5876.088	68.12	1.73	69.85	104.39	-34.54	Peak
7	5930.808	57.12	2.00	59.12	68.20	-9.08	Peak

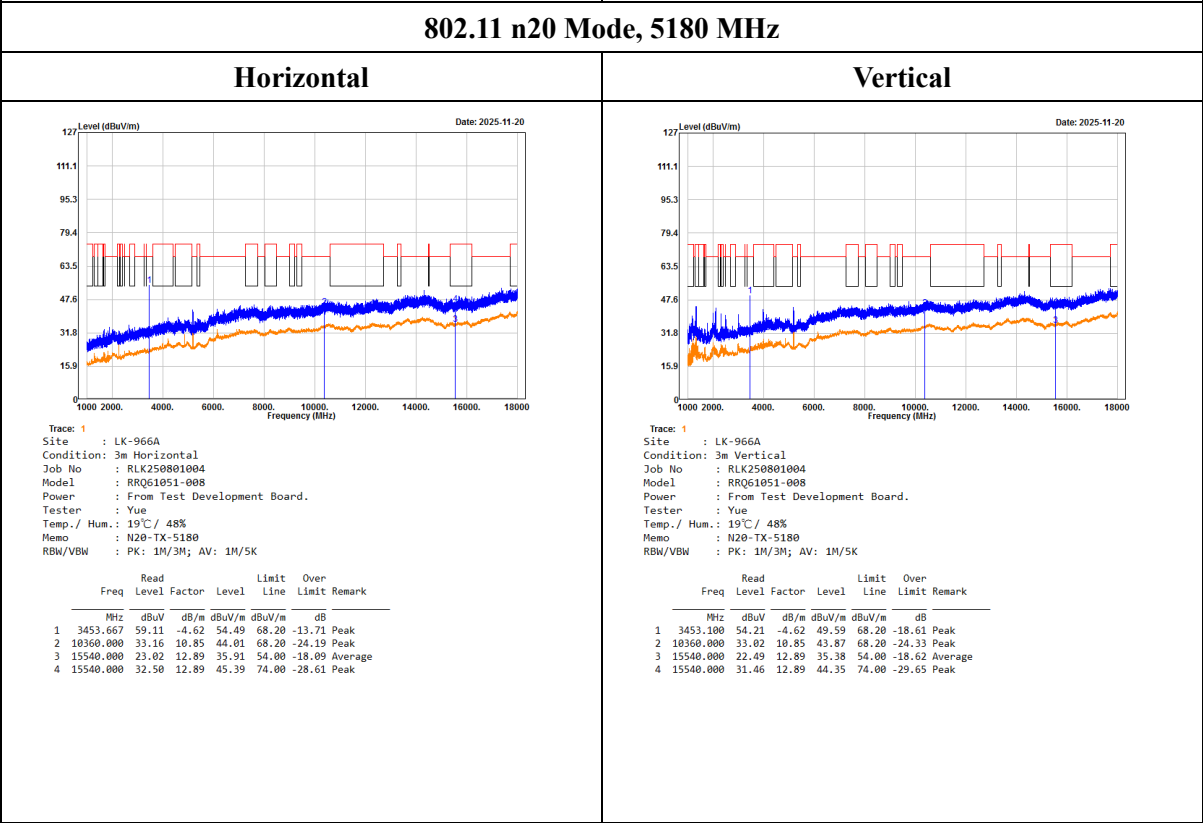
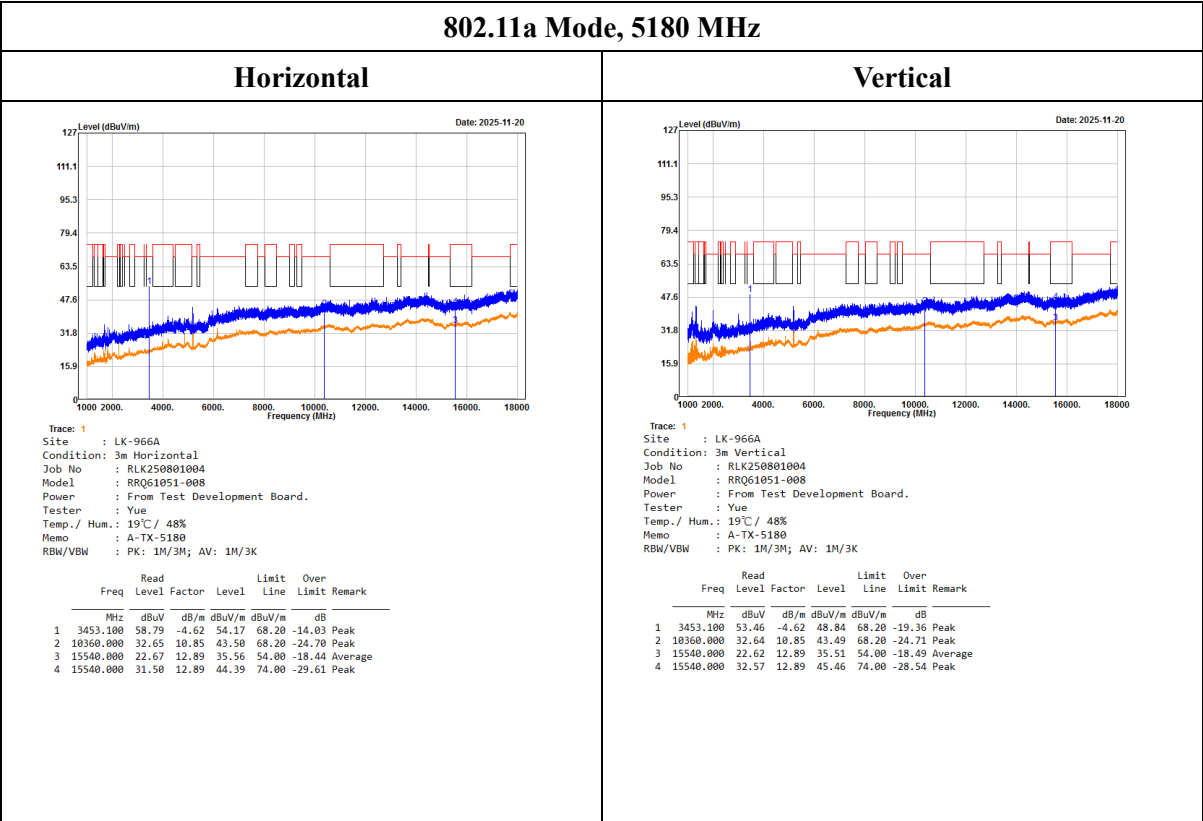
Level = Reading + Factor.

Over Limit = Level – Limit.

Factor = Antenna Factor + Cable Loss – Amplifier Gain.

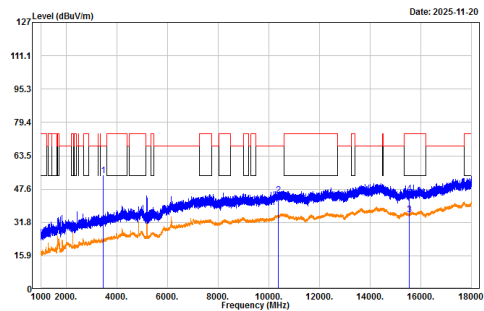
1GHz-18GHz:

UNII-1 Band I 5150-5250 MHz



802.11 ac20 Mode, 5180 MHz

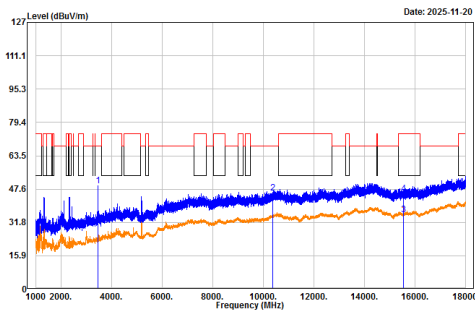
Horizontal



Trace: 1
Site : LK-966A
Condition: 3m Horizontal
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 19°C / 48%
Memo : AC20-TX-5180
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit	Over	Remark
	MHz	dBuV		dB/m	dBuV/m	dB	
1	3453.100	58.63	-4.62	54.01	68.20	-14.19	Peak
2	10360.000	33.89	10.85	44.74	68.20	-23.46	Peak
3	15540.000	22.67	12.89	35.56	54.00	-18.44	Average
4	15540.000	32.54	12.89	45.43	74.00	-28.57	Peak

Vertical

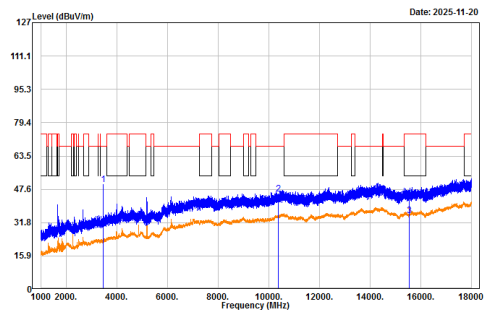


Trace: 1
Site : LK-966A
Condition: 3m Vertical
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 19°C / 48%
Memo : AC20-TX-5180
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit	Over	Remark
	MHz	dBuV		dB/m	dBuV/m	dB	
1	3453.100	53.80	-4.62	49.18	68.20	-19.02	Peak
2	10360.000	34.79	10.85	45.64	68.20	-22.56	Peak
3	15540.000	22.47	12.89	35.36	54.00	-18.64	Average
4	15540.000	32.56	12.89	45.45	74.00	-28.55	Peak

802.11 ax20 Mode, 5180 MHz

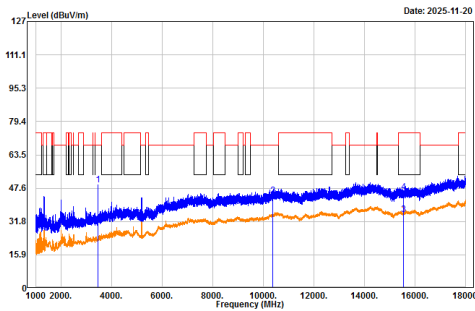
Horizontal



Trace: 1
Site : LK-966A
Condition: 3m Horizontal
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 19°C / 48%
Memo : AX20-TX-5180
RBW/VBW : PK: 1M/3M; AV: 1M/3K

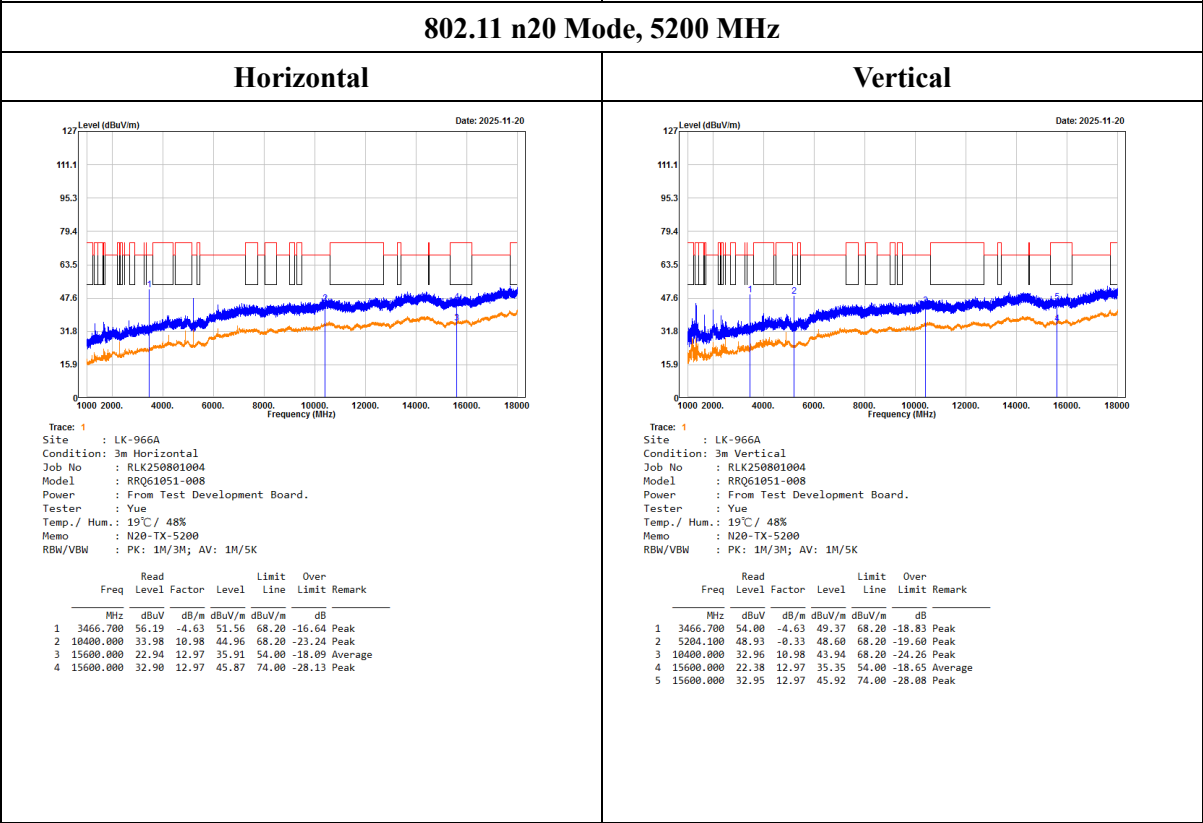
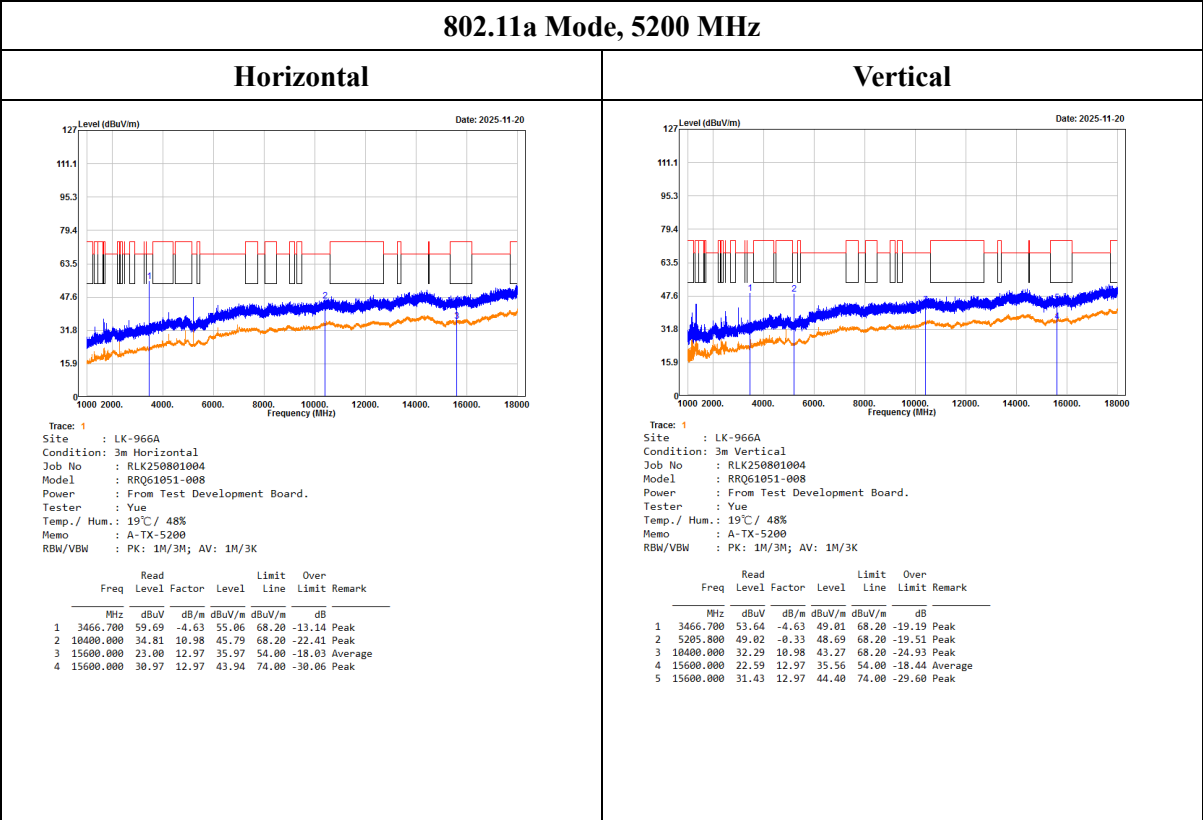
	Freq	Read Level	Factor	Level	Limit	Over	Remark
	MHz	dBuV		dB/m	dBuV/m	dB	
1	3453.100	54.60	-4.62	49.98	68.20	-18.22	Peak
2	10360.000	34.60	10.85	45.45	68.20	-22.75	Peak
3	15540.000	22.05	12.89	34.94	54.00	-19.06	Average
4	15540.000	30.24	12.89	43.13	74.00	-30.87	Peak

Vertical



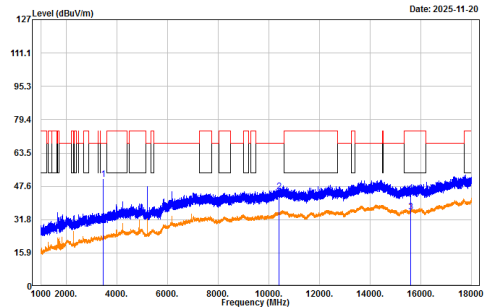
Trace: 1
Site : LK-966A
Condition: 3m Vertical
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 19°C / 48%
Memo : AX20-TX-5180
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit	Over	Remark
	MHz	dBuV		dB/m	dBuV/m	dB	
1	3453.100	53.67	-4.62	49.05	68.20	-19.15	Peak
2	10360.000	33.15	10.85	44.00	68.20	-24.20	Peak
3	15540.000	22.07	12.89	34.96	54.00	-19.04	Average
4	15540.000	32.81	12.89	45.70	74.00	-28.30	Peak



802.11 ac20 Mode, 5200 MHz

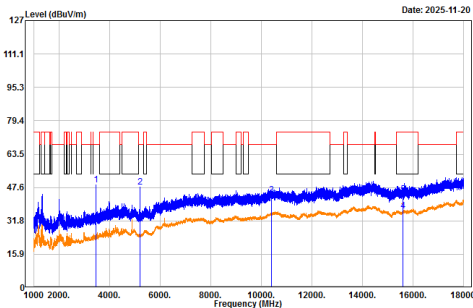
Horizontal



Trace: 1
Site : LK-966A
Condition: 3m Horizontal
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 19°C / 48%
Memo : AC20-TX-5200
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Read	Limit	Over	
Freq	Level	Factor	Level	Line
MHz	dBuV	dB/m	dBuV/m	dB
1 3466.700	55.60	-4.63	50.97	68.20 -17.23 Peak
2 10400.000	33.95	10.98	44.93	68.20 -23.27 Peak
3 15600.000	22.32	12.97	35.29	54.00 -18.71 Average
4 15600.000	31.26	12.97	44.23	74.00 -29.77 Peak

Vertical

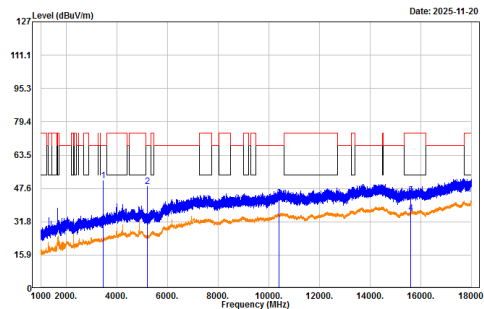


Trace: 1
Site : LK-966A
Condition: 3m Vertical
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 19°C / 48%
Memo : AC20-TX-5200
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Read	Limit	Over	
Freq	Level	Factor	Level	Line
MHz	dBuV	dB/m	dBuV/m	dB
1 3466.700	53.46	-4.63	48.83	68.20 -19.37 Peak
2 5205.233	48.33	-0.33	48.00	68.20 -20.20 Peak
3 10400.000	33.08	10.98	44.06	68.20 -24.14 Peak
4 15600.000	23.59	12.97	36.56	54.00 -17.44 Average
5 15600.000	31.54	12.97	44.51	74.00 -29.49 Peak

802.11 ax20 Mode, 5200 MHz

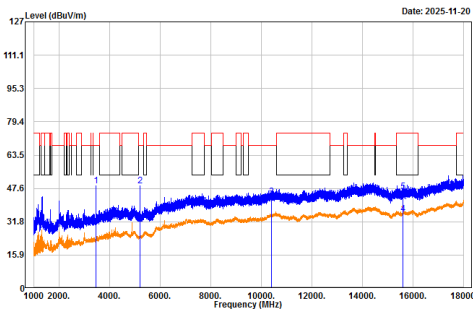
Horizontal



Trace: 1
Site : LK-966A
Condition: 3m Horizontal
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 19°C / 48%
Memo : AX20-TX-5200
RBW/VBW : PK: 1M/3M; AV: 1M/3K

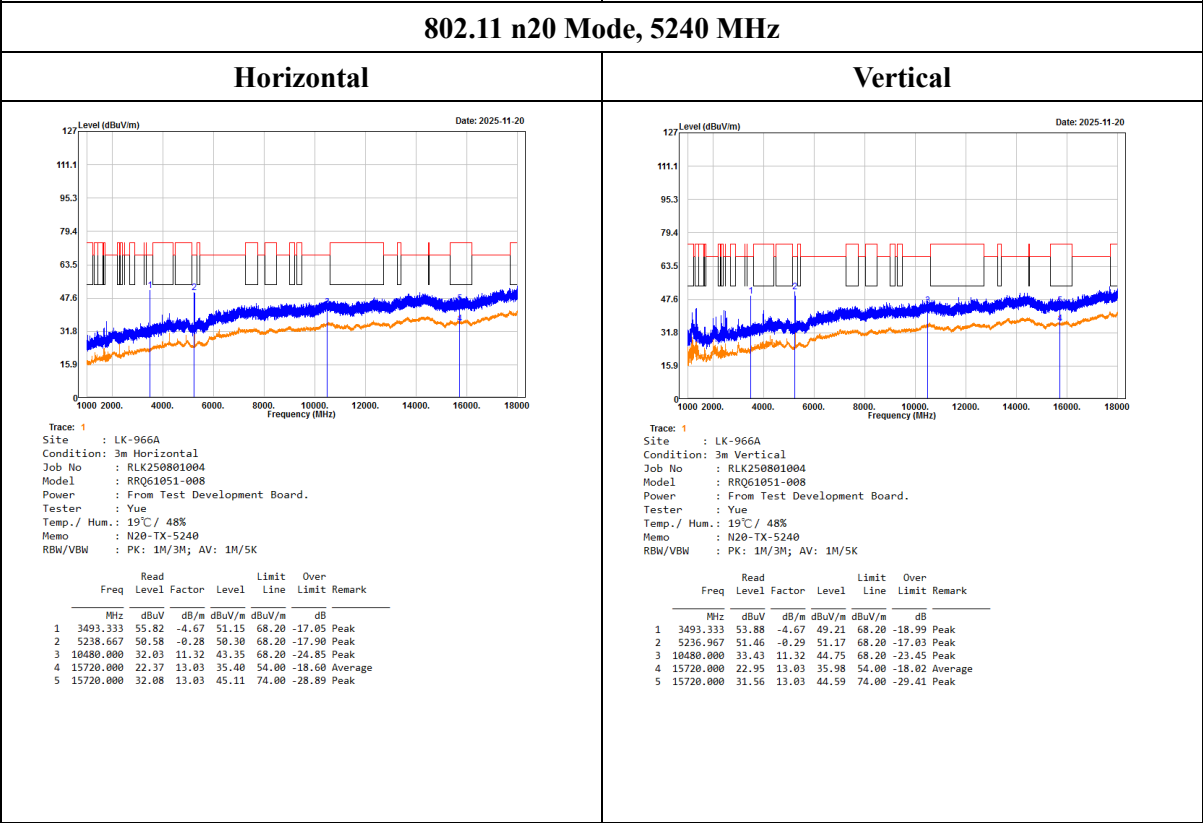
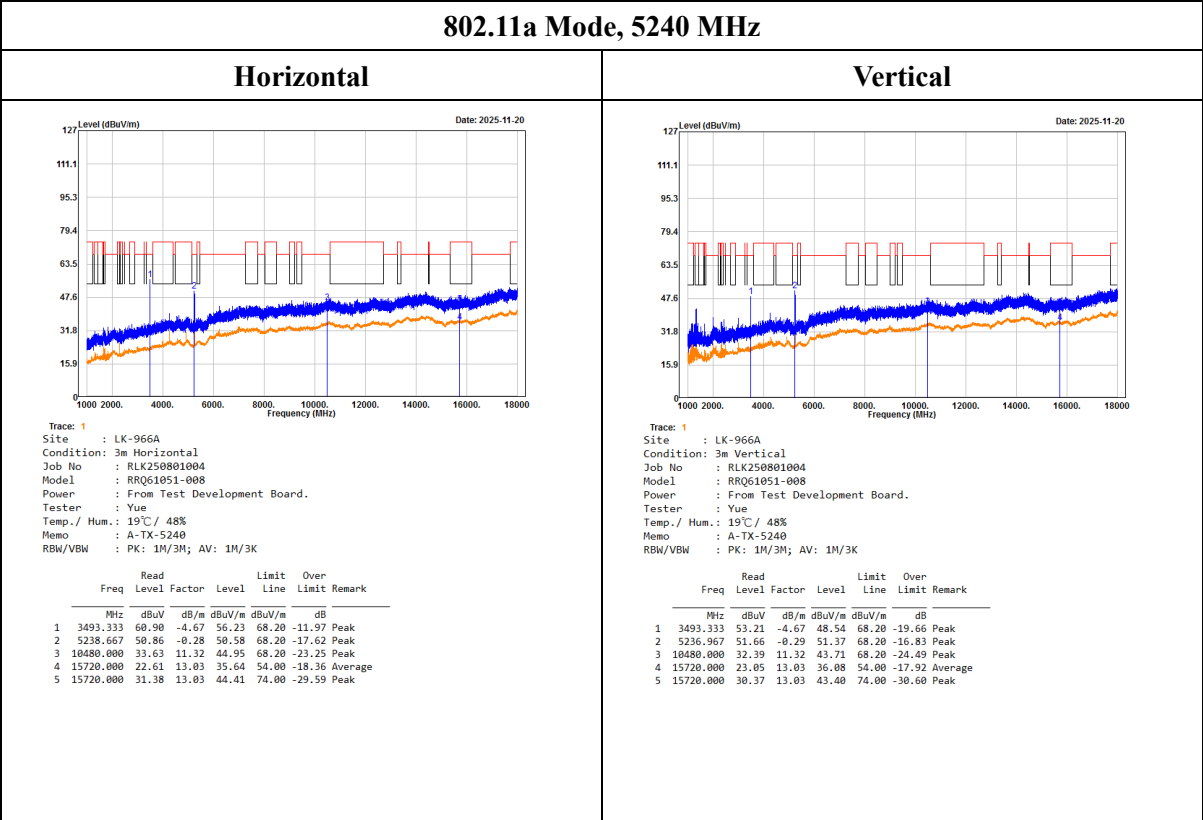
	Read	Limit	Over	
Freq	Level	Factor	Level	Line
MHz	dBuV	dB/m	dBuV/m	dB
1 3466.700	55.79	-4.63	51.16	68.20 -17.04 Peak
2 5203.533	48.83	-0.33	48.50	68.20 -19.70 Peak
3 10400.000	32.18	10.98	43.16	68.20 -25.04 Peak
4 15600.000	22.73	12.97	35.70	54.00 -18.30 Average
5 15600.000	31.43	12.97	44.40	74.00 -29.60 Peak

Vertical



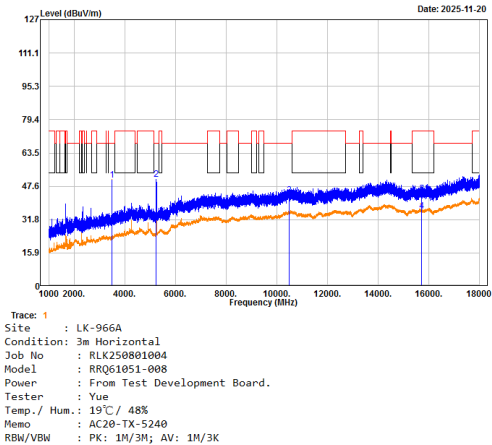
Trace: 1
Site : LK-966A
Condition: 3m Vertical
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 19°C / 48%
Memo : AX20-TX-5200
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Read	Limit	Over	
Freq	Level	Factor	Level	Line
MHz	dBuV	dB/m	dBuV/m	dB
1 3466.700	53.40	-4.63	48.77	68.20 -19.43 Peak
2 5199.000	49.11	-0.34	48.77	68.20 -19.43 Peak
3 10400.000	32.75	10.98	43.73	68.20 -24.47 Peak
4 15600.000	22.56	12.97	35.53	54.00 -18.47 Average
5 15600.000	33.06	12.97	46.03	74.00 -27.97 Peak



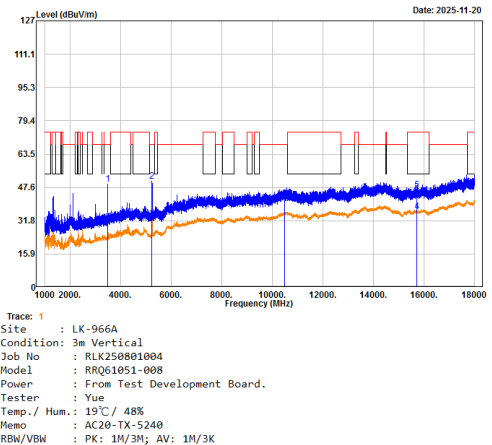
802.11 ac20 Mode, 5240 MHz

Horizontal



	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	3492.767	55.36	-4.67	50.69	68.20	-17.51	Peak
2	5236.400	51.16	-0.29	50.87	68.20	-17.33	Peak
3	10480.000	52.19	11.32	43.51	68.20	-24.69	Peak
4	15720.000	22.62	13.03	35.85	54.00	-18.15	Average
5	15720.000	31.17	13.03	44.20	74.00	-29.80	Peak

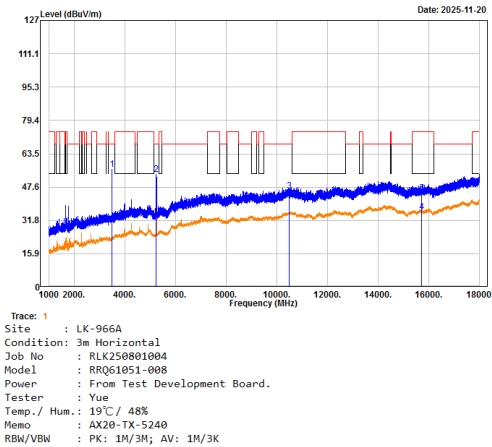
Vertical



	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	3493.333	53.94	-4.67	49.27	68.20	-18.93	Peak
2	5238.100	51.02	-0.28	50.74	68.20	-17.46	Peak
3	10480.000	50.92	11.32	42.24	68.20	-25.96	Peak
4	15720.000	23.12	13.03	36.15	54.00	-17.85	Average
5	15720.000	33.57	13.03	46.60	74.00	-27.40	Peak

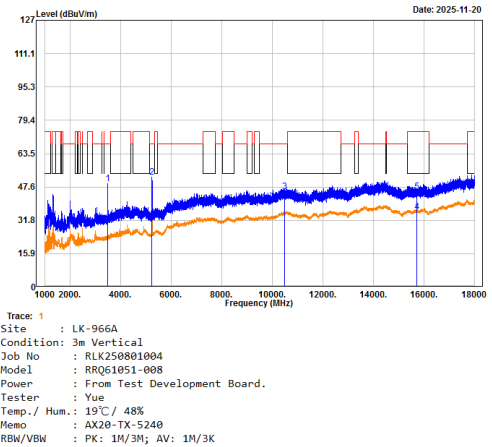
802.11 ax20 Mode, 5240 MHz

Horizontal



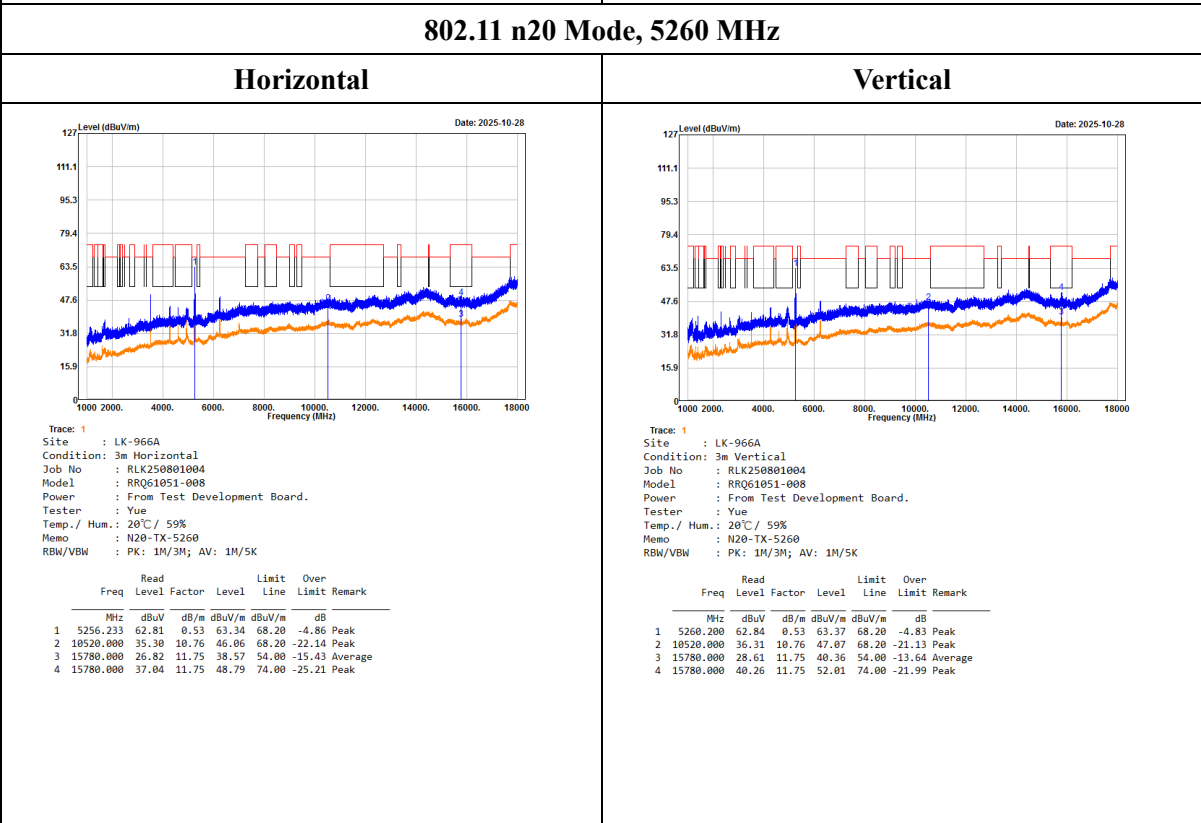
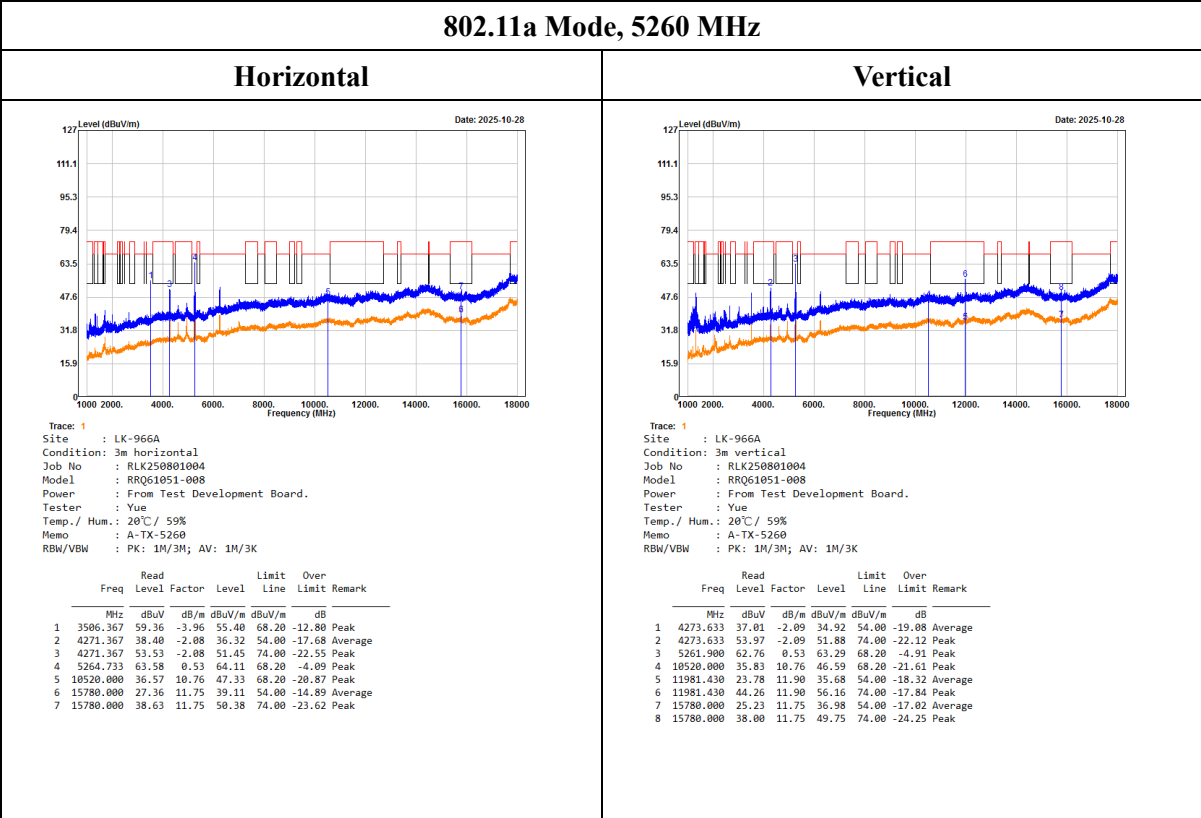
	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	3493.333	60.90	-4.67	56.23	68.20	-11.97	Peak
2	5237.533	53.94	-0.28	53.66	68.20	-14.54	Peak
3	10480.000	34.53	11.32	45.85	68.20	-22.35	Peak
4	15720.000	22.62	13.03	35.65	54.00	-18.35	Average
5	15720.000	31.64	13.03	44.67	74.00	-29.33	Peak

Vertical



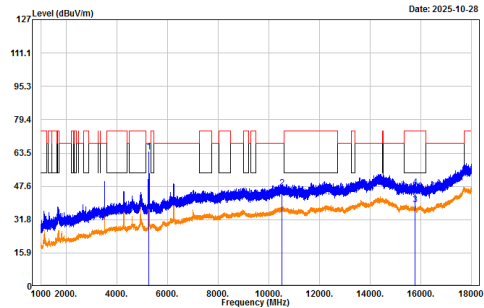
	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	3493.333	53.97	-4.67	49.30	68.20	-18.90	Peak
2	5237.533	52.58	-0.28	52.30	68.20	-15.90	Peak
3	10480.000	34.01	11.32	45.33	68.20	-22.87	Peak
4	15720.000	22.64	13.03	35.67	54.00	-18.33	Average
5	15720.000	32.23	13.03	45.26	74.00	-28.74	Peak

UNII-2A Band II 5250~5350 MHz



802.11 ac20 Mode, 5260 MHz

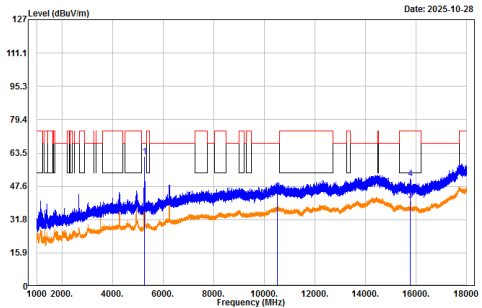
Horizontal



Trace: 1
Site : LK-966A
Condition: 3m Horizontal
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 20°C / 59%
Memo : AC20-TX-5260
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	5255.667	63.52	0.53	64.05	68.20	-4.15	Peak
2	10520.000	35.88	10.76	46.64	68.20	-21.56	Peak
3	15780.000	27.01	11.75	38.76	54.00	-15.24	Average
4	15780.000	35.40	11.75	47.15	74.00	-26.85	Peak

Vertical

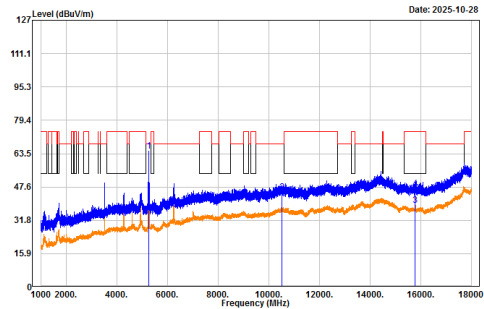


Trace: 1
Site : LK-966A
Condition: 3m Vertical
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 20°C / 59%
Memo : AC20-TX-5260
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	5259.633	61.18	0.53	61.71	68.20	-6.49	Peak
2	10520.000	34.33	10.76	45.09	68.20	-23.11	Peak
3	15780.000	29.12	11.75	40.87	54.00	-13.13	Average
4	15780.000	39.51	11.75	51.26	74.00	-22.74	Peak

802.11 ax20 Mode, 5260 MHz

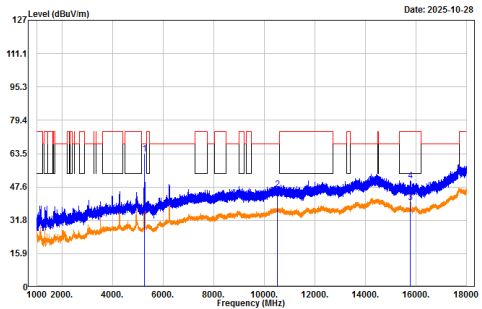
Horizontal



Trace: 1
Site : LK-966A
Condition: 3m Horizontal
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 20°C / 59%
Memo : AX20-TX-5260
RBW/VBW : PK: 1M/3M; AV: 1M/3K

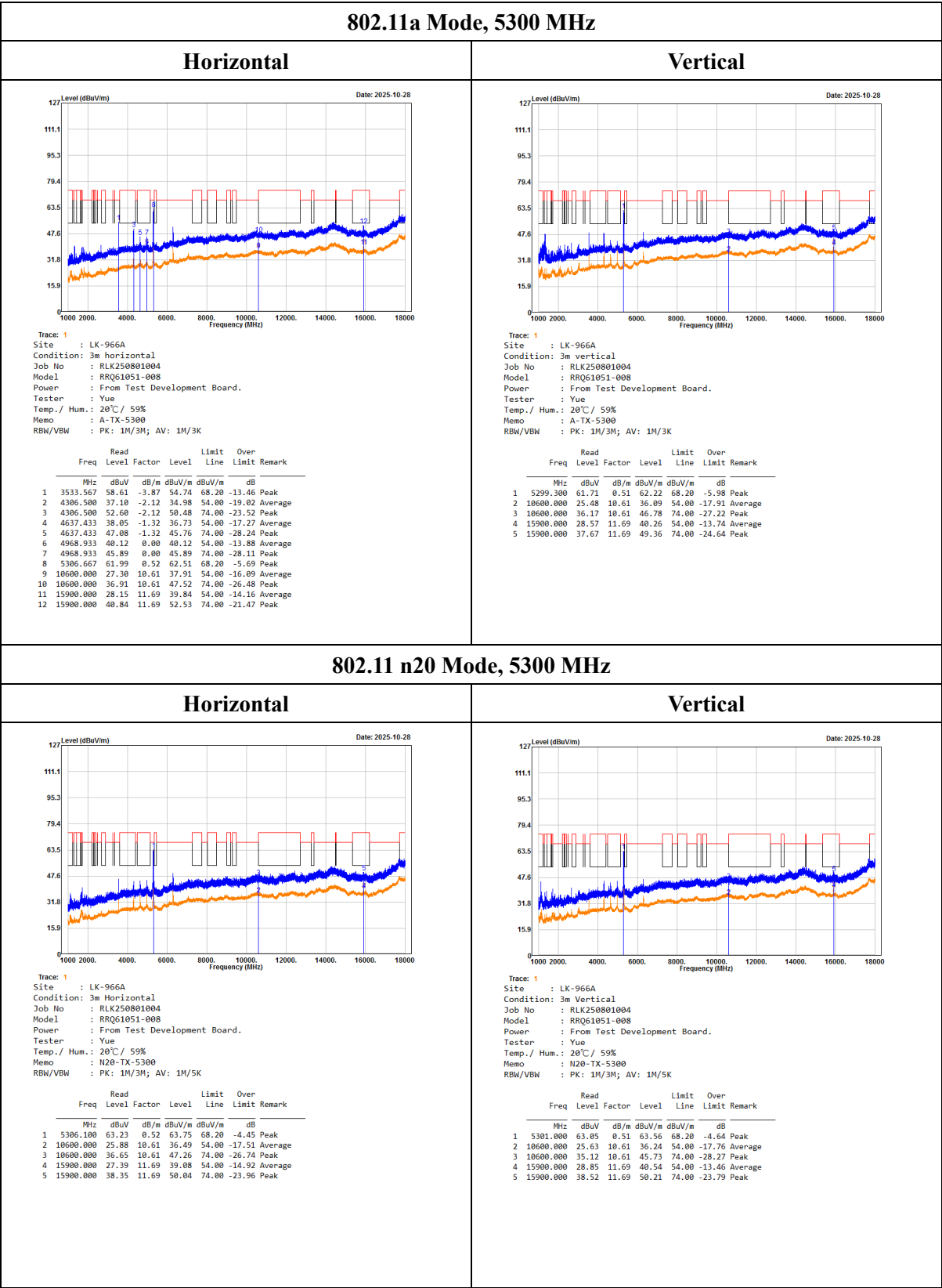
	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	5256.800	64.10	0.53	64.63	68.20	-3.57	Peak
2	10520.000	34.26	10.76	45.02	68.20	-23.18	Peak
3	15780.000	27.12	11.75	38.87	54.00	-15.13	Average
4	15780.000	35.14	11.75	46.89	74.00	-27.11	Peak

Vertical



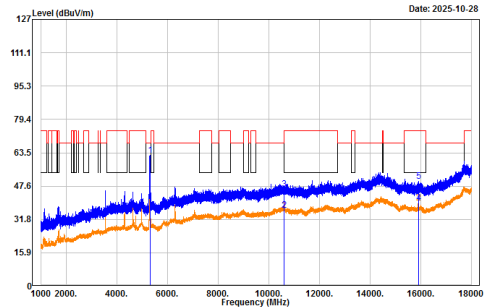
Trace: 1
Site : LK-966A
Condition: 3m Vertical
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 20°C / 59%
Memo : AX20-TX-5260
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	5257.367	62.67	0.53	63.20	68.20	-5.00	Peak
2	10520.000	35.62	10.76	46.38	68.20	-21.82	Peak
3	15780.000	28.47	11.75	40.22	54.00	-13.78	Average
4	15780.000	38.81	11.75	50.56	74.00	-23.44	Peak



802.11 ac20 Mode, 5300 MHz

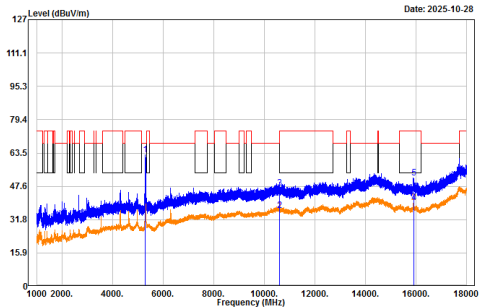
Horizontal



Trace: 1
Site : LK-966A
Condition: 3m Horizontal
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 20°C / 59%
Memo : AC20-TX-5300
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit	Over	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	5304.967	61.87	0.52	62.39	68.20	-5.81	Peak
2	10600.000	25.69	10.61	36.30	54.00	-17.70	Average
3	10600.000	35.53	10.61	46.14	74.00	-27.86	Peak
4	15900.000	28.04	11.69	39.73	54.00	-14.27	Average
5	15900.000	38.05	11.69	49.74	74.00	-24.26	Peak

Vertical

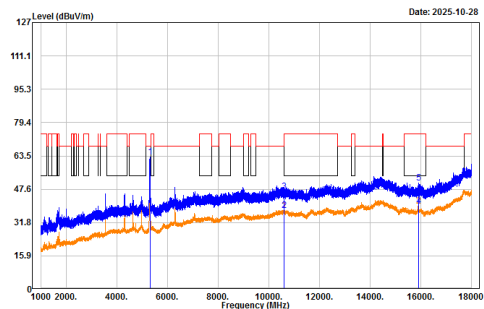


Trace: 1
Site : LK-966A
Condition: 3m Vertical
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 20°C / 59%
Memo : AC20-TX-5300
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit	Over	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	5298.733	62.07	0.51	62.58	68.20	-5.62	Peak
2	10600.000	25.60	10.61	36.21	54.00	-17.79	Average
3	10600.000	36.08	10.61	46.69	74.00	-27.31	Peak
4	15900.000	28.12	11.69	39.81	54.00	-14.19	Average
5	15900.000	39.91	11.69	51.60	74.00	-22.40	Peak

802.11 ax20 Mode, 5300 MHz

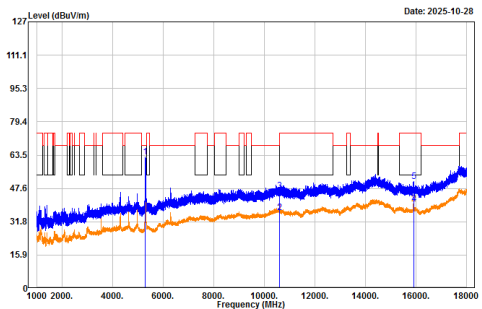
Horizontal



Trace: 1
Site : LK-966A
Condition: 3m Horizontal
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 20°C / 59%
Memo : AX20-TX-5300
RBW/VBW : PK: 1M/3M; AV: 1M/3K

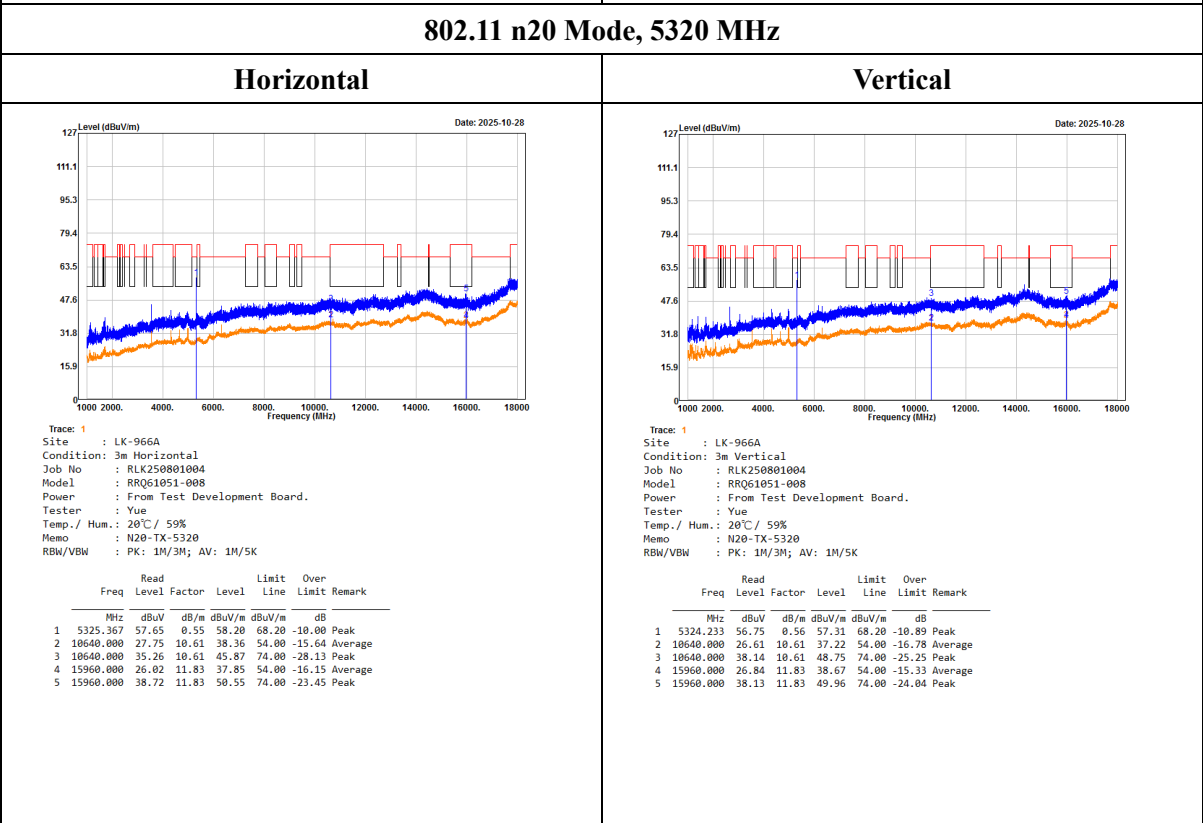
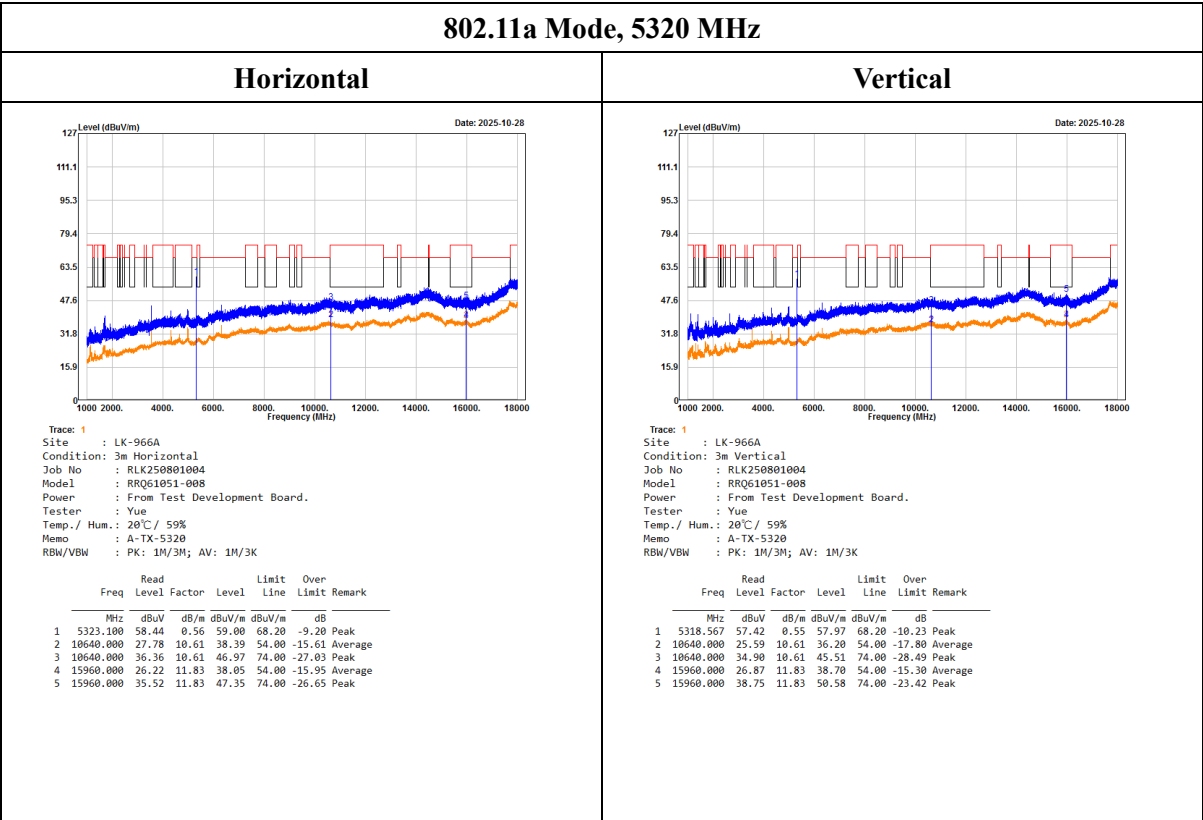
	Freq	Read Level	Factor	Level	Limit	Over	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	5303.833	62.48	0.52	63.00	68.20	-5.20	Peak
2	10600.000	26.85	10.61	37.46	54.00	-16.54	Average
3	10600.000	35.81	10.61	46.42	74.00	-27.58	Peak
4	15900.000	27.78	11.69	39.47	54.00	-14.53	Average
5	15900.000	38.78	11.69	50.47	74.00	-23.53	Peak

Vertical



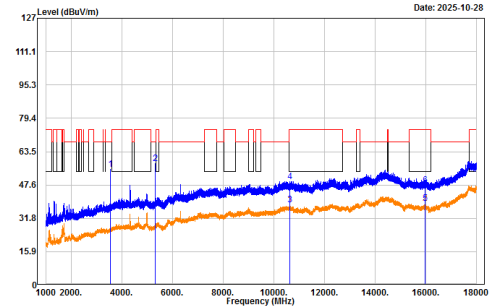
Trace: 1
Site : LK-966A
Condition: 3m Vertical
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 20°C / 59%
Memo : AX20-TX-5300
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit	Over	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	5301.000	61.99	0.51	62.50	68.20	-5.70	Peak
2	10600.000	25.64	10.61	36.25	54.00	-17.75	Average
3	10600.000	35.71	10.61	46.32	74.00	-27.68	Peak
4	15900.000	28.65	11.69	40.34	54.00	-13.66	Average
5	15900.000	39.20	11.69	50.89	74.00	-23.11	Peak



802.11 ac20 Mode, 5320 MHz

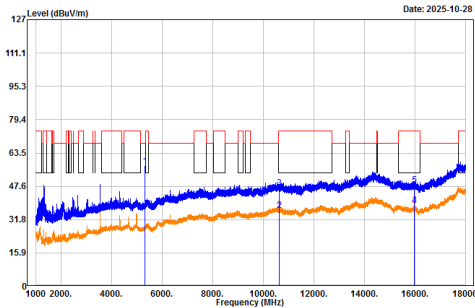
Horizontal



Trace: 1
Site : LK-966A
Condition: 3m horizontal
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 20°C / 59%
Memo : AC20-TX-5320
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit	Over	Remark
	MHz	dBuV		dB/m	dBuV/m	dB	
1	3546.600	58.87	-3.83	55.04	68.20	-13.16	Peak
2	5324.233	57.35	0.56	57.91	68.20	-10.29	Peak
3	10640.000	27.45	10.61	38.06	54.00	-15.94	Average
4	10640.000	38.70	10.61	49.31	74.00	-24.69	Peak
5	15960.000	27.06	11.83	38.89	54.00	-15.11	Average
6	15960.000	35.53	11.83	47.36	74.00	-26.64	Peak

Vertical

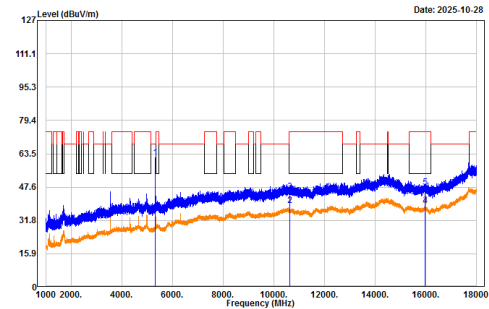


Trace: 1
Site : LK-966A
Condition: 3m vertical
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 20°C / 59%
Memo : AC20-TX-5320
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit	Over	Remark
	MHz	dBuV		dB/m	dBuV/m	dB	
1	5324.233	56.57	0.56	57.13	68.20	-11.07	Peak
2	10640.000	25.39	10.61	36.00	54.00	-18.00	Average
3	10640.000	36.36	10.61	46.97	74.00	-27.03	Peak
4	15960.000	26.64	11.83	38.47	54.00	-15.53	Average
5	15960.000	36.31	11.83	48.14	74.00	-25.86	Peak

802.11 ax20 Mode, 5320 MHz

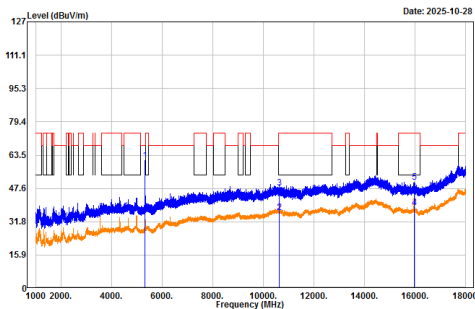
Horizontal



Trace: 1
Site : LK-966A
Condition: 3m Horizontal
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 20°C / 59%
Memo : AX20-TX-5320
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit	Over	Remark
	MHz	dBuV		dB/m	dBuV/m	dB	
1	5320.833	61.09	0.55	61.64	68.20	-6.56	Peak
2	10640.000	28.23	10.61	38.84	54.00	-15.16	Average
3	10640.000	34.70	10.61	45.31	74.00	-28.69	Peak
4	15960.000	27.13	11.83	38.96	54.00	-15.04	Average
5	15960.000	35.65	11.83	47.48	74.00	-26.52	Peak

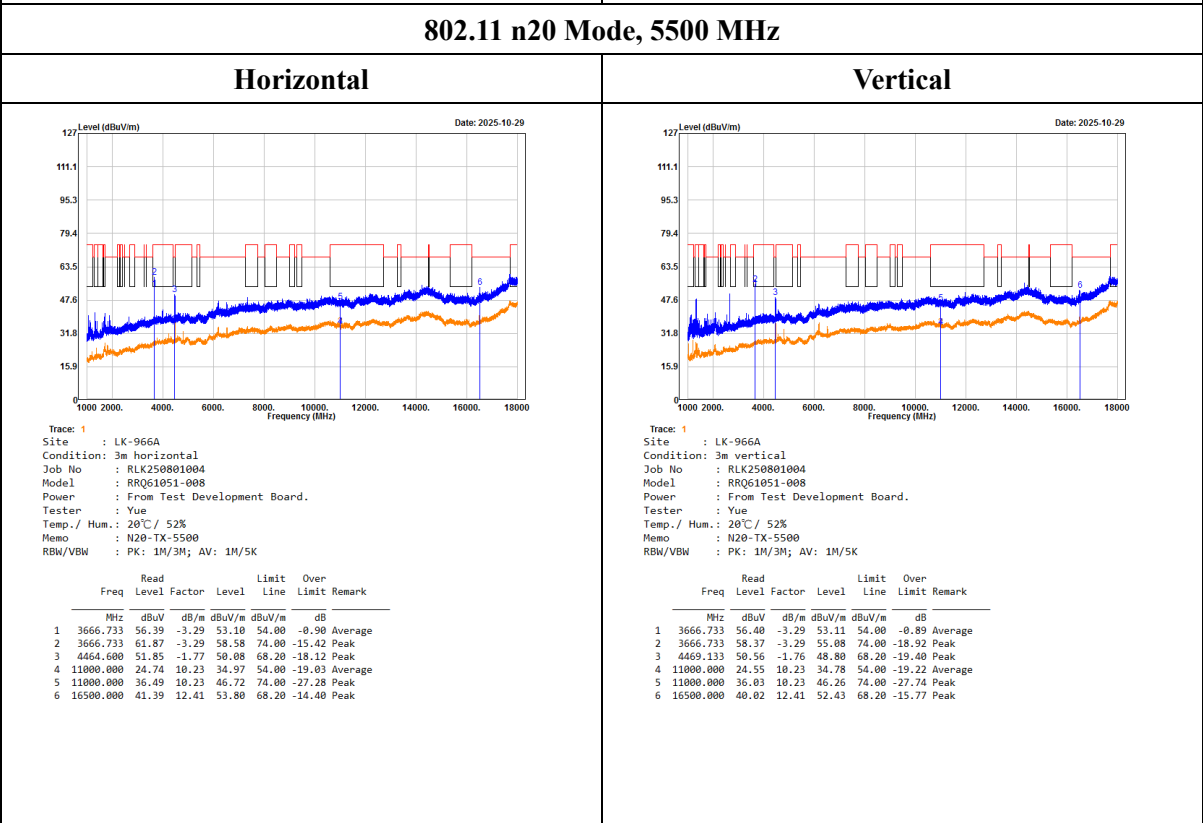
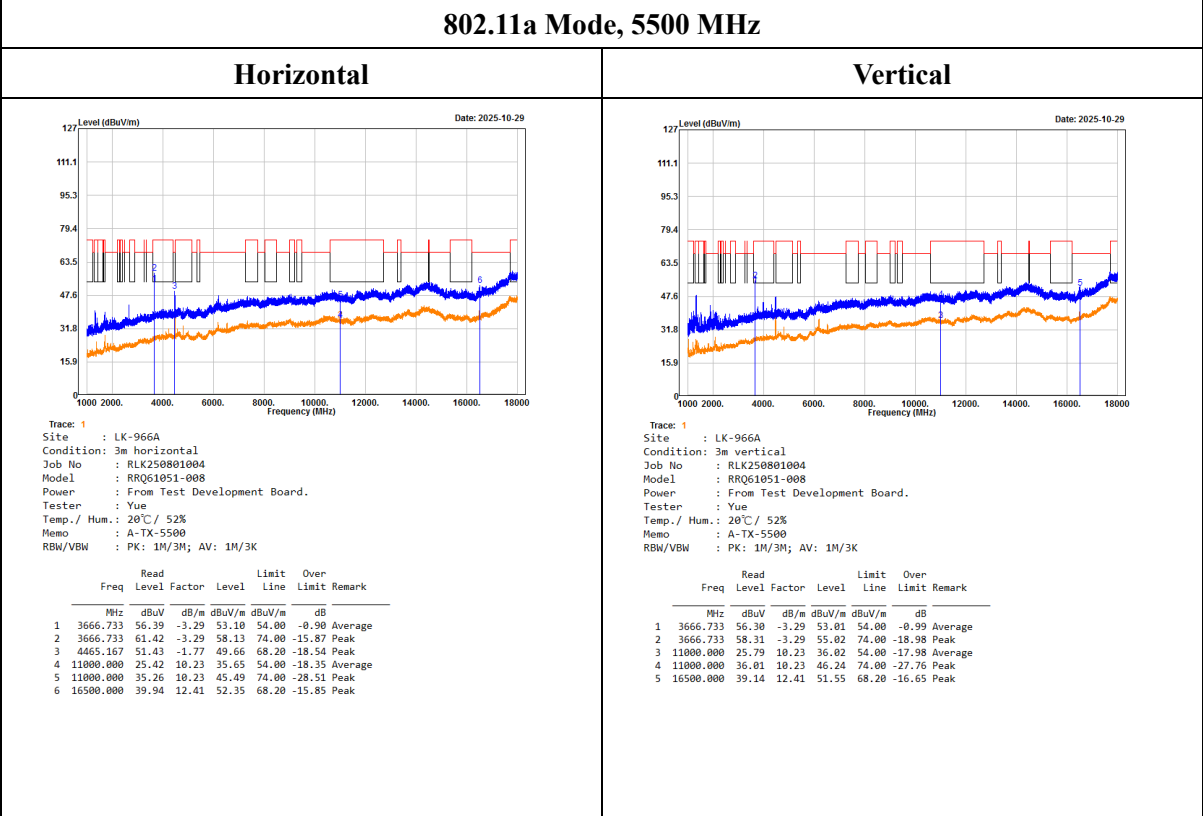
Vertical



Trace: 1
Site : LK-966A
Condition: 3m Vertical
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 20°C / 59%
Memo : AX20-TX-5320
RBW/VBW : PK: 1M/3M; AV: 1M/3K

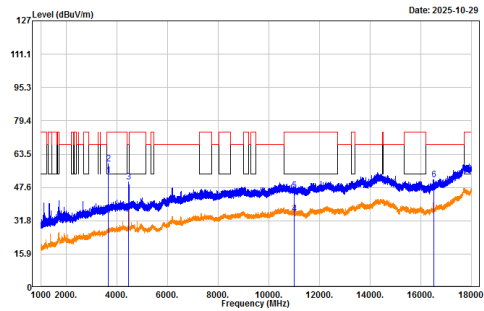
	Freq	Read Level	Factor	Level	Limit	Over	Remark
	MHz	dBuV		dB/m	dBuV/m	dB	
1	5321.967	60.36	0.55	60.91	68.20	-7.29	Peak
2	10640.000	25.63	10.61	36.24	54.00	-17.76	Average
3	10640.000	37.26	10.61	47.87	74.00	-26.13	Peak
4	15960.000	26.71	11.83	38.54	54.00	-15.46	Average
5	15960.000	38.73	11.83	50.56	74.00	-23.44	Peak

UNII-2C Band III 5470-5725 MHz



802.11 ac20 Mode, 5500 MHz

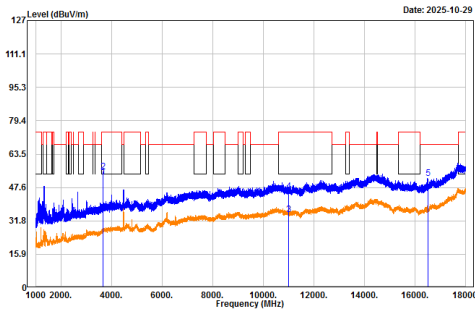
Horizontal



Trace: 1
Site : LK-966A
Condition: 3m horizontal
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 20°C / 52%
Memo : AC20-TX-5500
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Read		Limit	Over	
Freq	Level	Factor	Level	Line	Limit Remark
MHz	dBuV		dB/m	dBuV/m	dB
1 3666.733	56.48	-3.29	53.19	54.00	-0.81 Average
2 3666.733	62.12	-3.29	58.83	74.00	-15.17 Peak
3 4468.567	51.87	-1.76	50.11	68.20	-18.09 Peak
4 11000.000	24.83	10.23	35.06	54.00	-19.94 Average
5 11000.000	36.02	10.23	46.25	74.00	-27.75 Peak
6 16500.000	38.94	12.41	51.35	68.20	-16.85 Peak

Vertical

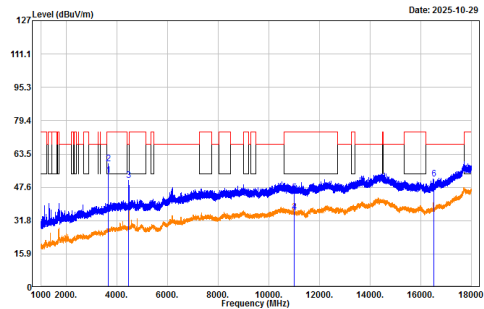


Trace: 1
Site : LK-966A
Condition: 3m vertical
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 20°C / 52%
Memo : AC20-TX-5500
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Read		Limit	Over	
Freq	Level	Factor	Level	Line	Limit Remark
MHz	dBuV		dB/m	dBuV/m	dB
1 3666.733	55.97	-3.29	52.68	54.00	-1.32 Average
2 3666.733	58.44	-3.29	55.15	74.00	-18.85 Peak
3 11000.000	24.55	10.23	34.78	54.00	-19.22 Average
4 11000.000	35.68	10.23	45.91	74.00	-28.09 Peak
5 16500.000	39.72	12.41	52.13	68.20	-16.07 Peak

802.11 ax20 Mode, 5500 MHz

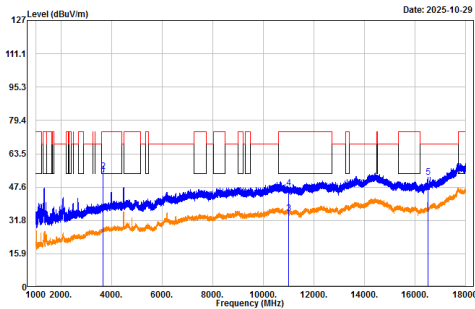
Horizontal



Trace: 1
Site : LK-966A
Condition: 3m horizontal
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 20°C / 52%
Memo : AX20-TX-5500
RBW/VBW : PK: 1M/3M; AV: 1M/3K

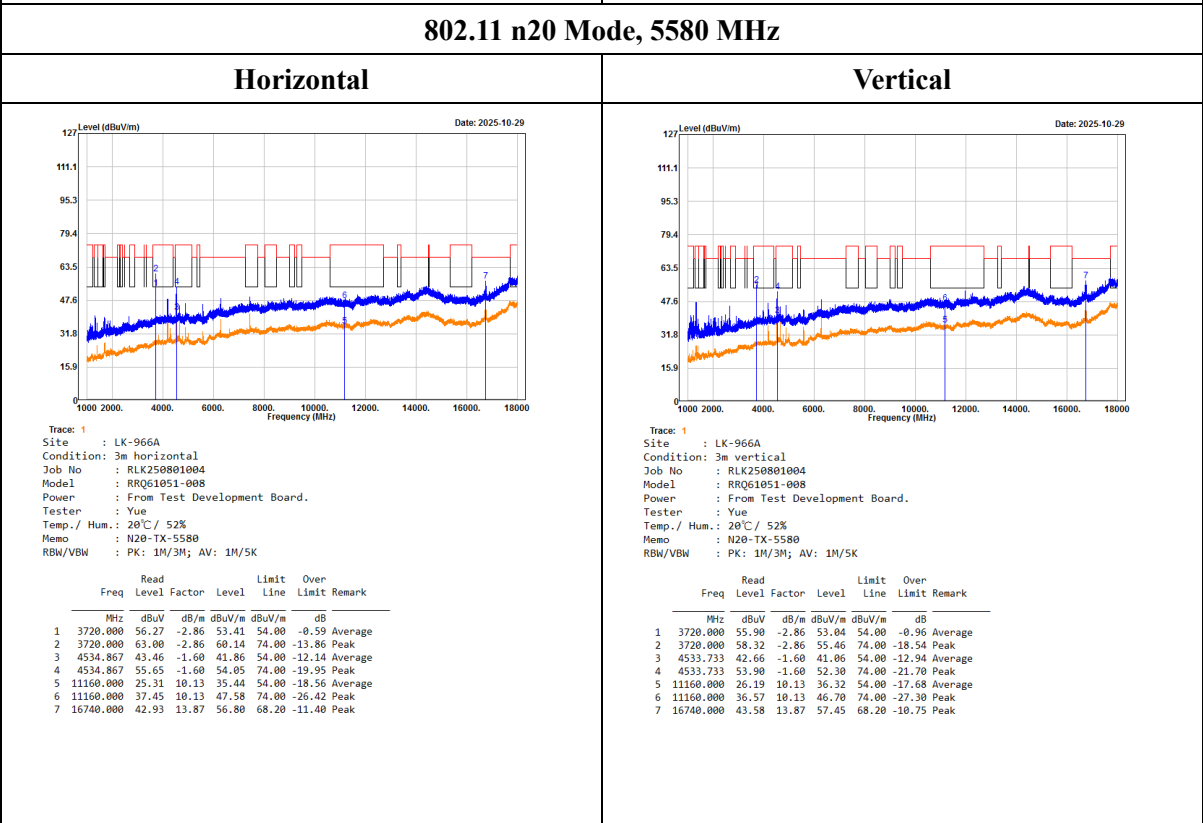
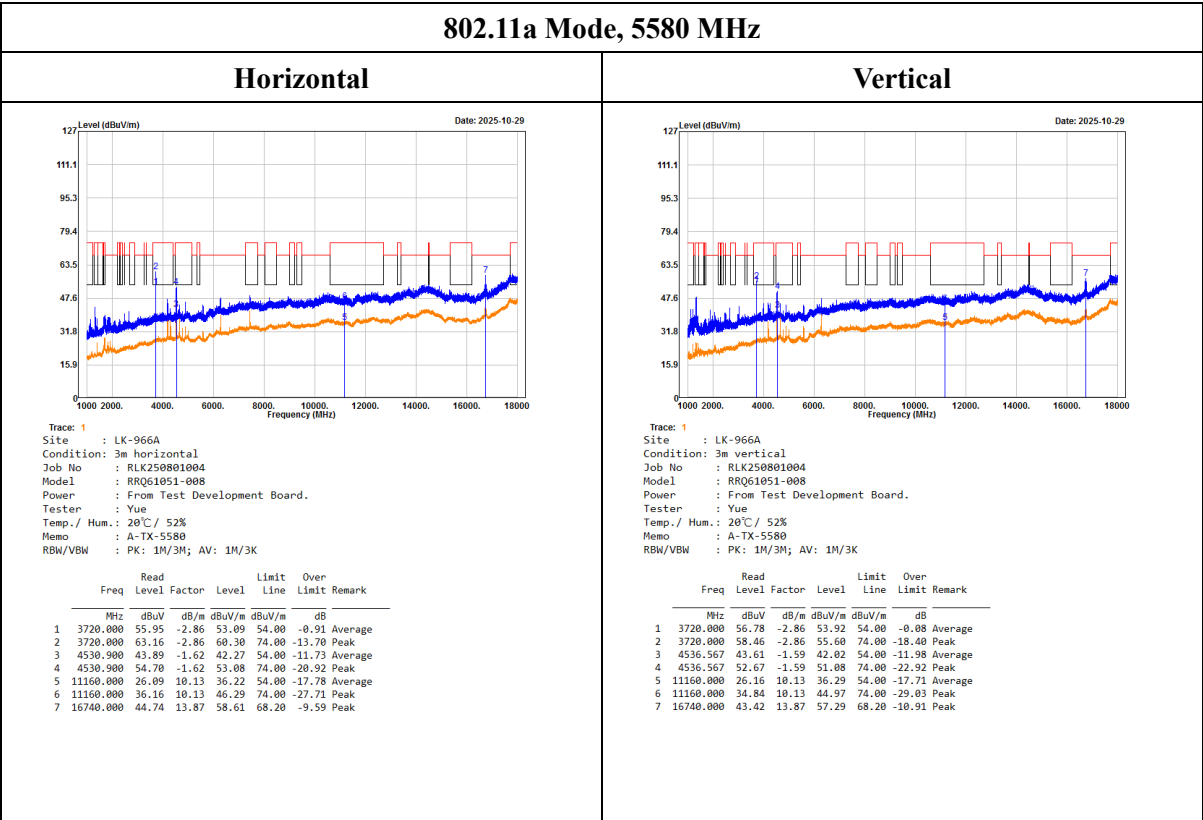
	Read		Limit	Over	
Freq	Level	Factor	Level	Line	Limit Remark
MHz	dBuV		dB/m	dBuV/m	dB
1 3666.733	56.68	-3.29	53.39	54.00	-0.61 Average
2 3666.733	62.22	-3.29	58.93	74.00	-15.07 Peak
3 4468.000	52.74	-1.76	50.98	68.20	-17.22 Peak
4 11000.000	25.43	10.23	35.66	54.00	-18.34 Average
5 11000.000	34.78	10.23	45.01	74.00	-28.99 Peak
6 16500.000	39.37	12.41	51.78	68.20	-16.42 Peak

Vertical



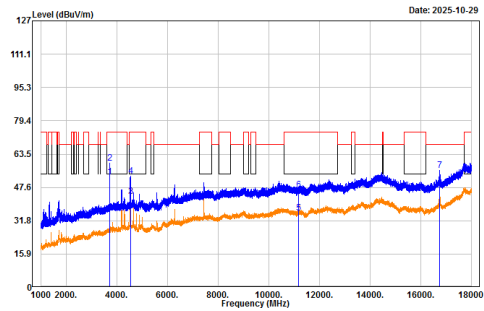
Trace: 1
Site : LK-966A
Condition: 3m vertical
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 20°C / 52%
Memo : AX20-TX-5500
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Read		Limit	Over	
Freq	Level	Factor	Level	Line	Limit Remark
MHz	dBuV		dB/m	dBuV/m	dB
1 3666.733	56.81	-3.29	53.52	54.00	-0.48 Average
2 3666.733	58.22	-3.29	54.93	74.00	-19.07 Peak
3 11000.000	24.88	10.23	35.11	54.00	-18.89 Average
4 11000.000	37.04	10.23	47.27	74.00	-26.73 Peak
5 16500.000	39.76	12.41	52.17	68.20	-16.03 Peak



802.11 ac20 Mode, 5580 MHz

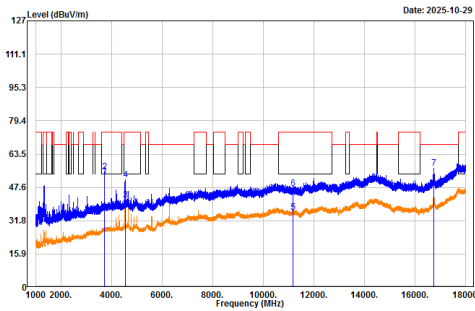
Horizontal



Trace: 1
Site: LK-966A
Condition: 3m horizontal
Job No: RLK250801004
Model: RRQ61051-008
Power: From Test Development Board.
Tester: Yue
Temp./ Hum: 20°C / 52%
Memo: AC20-TX-5580
RBW/VBW: PK: 1M/3M; AV: 1M/3K

	Read		Limit	Over	
Freq	Level	Factor	Level	Line	Limit Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1 3720.000	55.57	-2.86	52.71	54.00	-1.29 Average
2 3720.000	62.23	-2.86	59.37	74.00	-14.63 Peak
3 4536.567	45.12	-1.59	43.53	54.00	-10.47 Average
4 4536.567	54.70	-1.59	53.11	74.00	-20.89 Peak
5 11160.000	25.32	10.13	35.45	54.00	-18.55 Average
6 11160.000	36.42	10.13	46.55	74.00	-27.45 Peak
7 16740.000	42.05	13.87	55.92	68.20	-12.28 Peak

Vertical

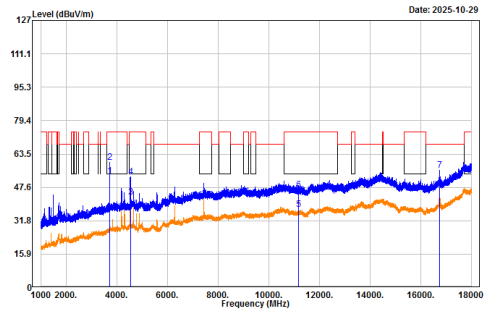


Trace: 1
Site: LK-966A
Condition: 3m vertical
Job No: RLK250801004
Model: RRQ61051-008
Power: From Test Development Board.
Tester: Yue
Temp./ Hum: 20°C / 52%
Memo: AC20-TX-5580
RBW/VBW: PK: 1M/3M; AV: 1M/3K

	Read		Limit	Over	
Freq	Level	Factor	Level	Line	Limit Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1 3720.000	55.91	-2.86	53.05	54.00	-0.95 Average
2 3720.000	57.92	-2.86	55.06	74.00	-18.94 Peak
3 4535.433	43.11	-1.60	41.51	54.00	-12.49 Average
4 4535.433	53.01	-1.60	51.41	74.00	-22.59 Peak
5 11160.000	25.50	10.13	35.63	54.00	-18.37 Average
6 11160.000	36.85	10.13	46.98	74.00	-27.02 Peak
7 16740.000	42.93	13.87	56.80	68.20	-11.40 Peak

802.11 ax20 Mode, 5580 MHz

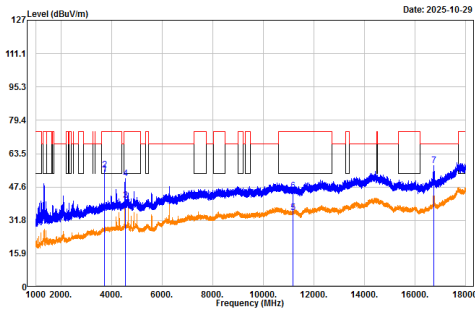
Horizontal



Trace: 1
Site: LK-966A
Condition: 3m horizontal
Job No: RLK250801004
Model: RRQ61051-008
Power: From Test Development Board.
Tester: Yue
Temp./ Hum: 20°C / 52%
Memo: AX20-TX-5580
RBW/VBW: PK: 1M/3M; AV: 1M/3K

	Read		Limit	Over	
Freq	Level	Factor	Level	Line	Limit Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1 3720.000	55.98	-2.86	53.12	54.00	-0.88 Average
2 3720.000	62.29	-2.86	59.43	74.00	-14.57 Peak
3 4538.833	44.61	-1.58	43.03	54.00	-10.97 Average
4 4538.833	54.37	-1.58	52.79	74.00	-21.21 Peak
5 11160.000	26.94	10.13	37.07	54.00	-16.93 Average
6 11160.000	36.30	10.13	46.43	74.00	-27.57 Peak
7 16740.000	41.87	13.87	55.74	68.20	-12.46 Peak

Vertical

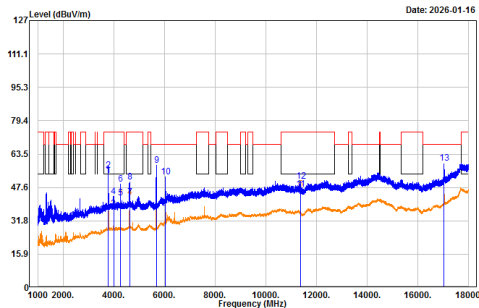


Trace: 1
Site: LK-966A
Condition: 3m vertical
Job No: RLK250801004
Model: RRQ61051-008
Power: From Test Development Board.
Tester: Yue
Temp./ Hum: 20°C / 52%
Memo: AX20-TX-5580
RBW/VBW: PK: 1M/3M; AV: 1M/3K

	Read		Limit	Over	
Freq	Level	Factor	Level	Line	Limit Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1 3720.000	56.44	-2.86	53.58	54.00	-0.42 Average
2 3720.000	58.65	-2.86	55.79	74.00	-18.21 Peak
3 4533.733	42.99	-1.60	41.39	54.00	-12.61 Average
4 4533.733	53.16	-1.60	51.56	74.00	-22.44 Peak
5 11160.000	25.34	10.13	35.47	54.00	-18.53 Average
6 11160.000	35.57	10.13	45.70	74.00	-28.30 Peak
7 16740.000	43.96	13.87	57.83	68.20	-10.37 Peak

802.11a Mode, 5680 MHz

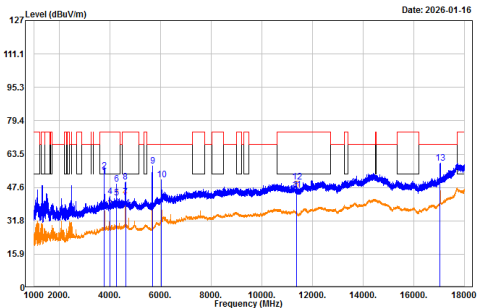
Horizontal



Trace: 1
Site : LK-966A
Condition: 3m horizontal
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 20°C / 52%
Memo : A-TX-5680
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Read	Limit	Over			
Freq	Level	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1 3786.867	55.58	-2.40	53.18	54.00	-0.82	Average
2 3786.867	58.20	-2.40	55.80	74.00	-18.20	Peak
3 3988.033	39.54	-2.01	37.53	54.00	-16.47	Average
4 3988.033	45.52	-2.01	43.51	74.00	-30.49	Peak
5 4259.467	44.73	-2.08	42.65	54.00	-11.35	Average
6 4259.467	51.47	-2.08	49.39	74.00	-24.61	Peak
7 4619.300	44.43	-1.38	43.05	54.00	-10.95	Average
8 4619.300	51.77	-1.38	50.39	74.00	-23.61	Peak
9 5684.633	56.98	1.24	58.22	68.20	-9.98	Peak
10 6031.433	50.18	2.48	52.66	68.20	-15.54	Peak
11 11360.000	36.67	10.08	46.75	54.00	-7.25	Average
12 11360.000	40.53	10.08	50.61	74.00	-23.39	Peak
13 17040.000	43.27	15.97	59.24	68.20	-8.96	Peak

Vertical

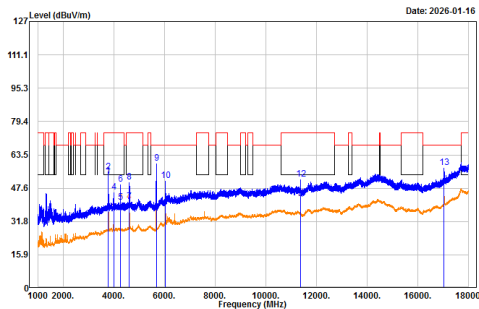


Trace: 1
Site : LK-966A
Condition: 3m vertical
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 20°C / 52%
Memo : A-TX-5680
RBW/VBW : PK: 1M/3M; AV: 1M/3K

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	3786.867	55.14	-2.40	52.74	54.00	-1.26	Average
2	3786.867	57.95	-2.40	55.55	74.00	-18.45	Peak
3	3995.400	39.49	-2.00	37.49	54.00	-16.51	Average
4	3995.400	44.34	-2.00	43.34	74.00	-30.66	Peak
5	4258.900	45.64	-2.08	42.56	54.00	-11.44	Average
6	4258.900	51.13	-2.08	49.05	74.00	-24.95	Peak
7	4617.033	44.25	-1.40	42.85	54.00	-11.15	Average
8	4617.033	51.51	-1.40	50.11	74.00	-23.89	Peak
9	5677.267	56.54	1.22	57.76	68.20	-10.44	Peak
10	6033.133	48.81	2.49	51.30	68.20	-16.90	Peak
11	11360.000	36.44	10.08	46.52	54.00	-7.48	Average
12	11360.000	40.15	10.08	50.23	74.00	-23.77	Peak
13	17040.000	43.17	15.97	59.14	68.20	-9.06	Peak

802.11 n20 Mode, 5680 MHz

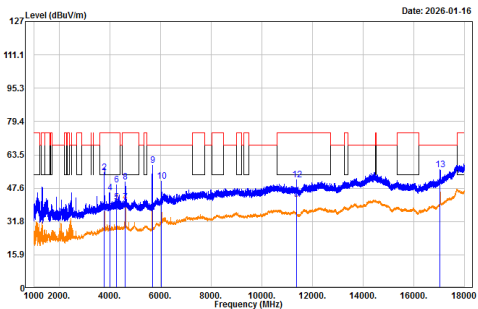
Horizontal



Trace: 1
Site : LK-966A
Condition: 3m horizontal
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 20°C / 52%
Memo : N20-TX-5680
RBW/VBW : PK: 1M/3M; AV: 1M/5K

	Read	Limit	Over			
Freq	Level	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1	3786.300	55.68	-2.40	53.28	54.00	-0.72 Average
2	3786.300	58.84	-2.40	56.44	74.00	-18.56 Peak
3	3997.100	38.13	-2.00	36.13	54.00	-17.87 Average
4	3997.100	47.63	-2.00	45.63	74.00	-28.37 Peak
5	4260.033	43.18	-2.07	41.11	54.00	-12.89 Average
6	4260.033	51.46	-2.07	49.39	74.00	-24.61 Peak
7	4614.767	42.57	-1.40	41.17	54.00	-12.83 Average
8	4614.767	52.06	-1.40	50.66	74.00	-23.34 Peak
9	5683.590	58.16	1.24	59.40	68.20	-8.80 Peak
10	6030.867	48.92	2.49	51.41	68.20	-16.79 Peak
11	11360.000	32.74	10.08	42.82	54.00	-11.18 Average
12	11360.000	41.79	10.08	51.87	74.00	-22.13 Peak
13	17040.000	41.60	15.97	57.57	68.20	-10.63 Peak

Vertical



Trace: 1
Site : LK-966A
Condition: 3m vertical
Job No : RLK250801004
Model : RRQ61051-008
Power : From Test Development Board.
Tester : Yue
Temp./ Hum.: 20°C / 52%
Memo : N20-TX-5680
RBW/VBW : PK: 1M/3M; AV: 1M/5K

	Read	Limit	Over			
Freq	Level	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1 3786.300	55.48	-2.40	53.08	54.00	-0.92	Average
2 3786.300	57.63	-2.40	55.23	74.00	-18.77	Peak
3 3994.267	38.06	-2.00	36.06	54.00	-17.94	Average
4 3994.267	47.46	-2.00	45.46	74.00	-28.54	Peak
5 4260.033	43.12	-2.07	41.05	54.00	-12.95	Average
6 4260.033	51.21	-2.07	49.14	74.00	-24.86	Peak
7 4614.767	42.49	-1.40	41.09	54.00	-12.91	Average
8 4614.767	51.84	-1.40	50.44	74.00	-23.56	Peak
9 5684.067	57.39	1.24	58.63	68.20	-9.57	Peak
10 6030.867	48.41	2.49	50.90	68.20	-17.30	Peak
11 11360.000	32.40	10.08	42.48	54.00	-11.52	Average
12 11360.000	41.50	10.08	51.58	74.00	-22.42	Peak
13 17040.000	40.37	15.97	56.34	68.20	-11.86	Peak