

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

FCC ID: 2AU49-RRQ61051009

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Revision History

Revision	No.	Report Number	Issue Date	Description	Author/ Revised by
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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	RRQ61051-009
Series Model Name	RRQ61051-010
Model Differences	Different antenna interfaces
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: 15.90 dBm 5250-5350 MHz: 16.96 dBm 5470-5725 MHz: 16.93 dBm 5725-5850 MHz: 14.83 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	Oct. 20, 2025 ~ Jan. 23, 2026

Note:

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

RLK250801005-01 & RLK250801005- 03(Assigned by BACL, Linkou Laboratory).

**802.11ax mode only support full RU

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

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	±3.20 (dB)
	30 MHz~1GHz	±3.30 (dB)
	1 GHz~18 GHz	±4.99 (dB)
	18 GHz~40 GHz	±4.52 (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	23.4	52	Cedric Xu
Radiation Spurious Emissions	2025/10/20 ~ 2026/01/23	16.5 ~ 24.5	47 ~ 63	Derek
Duty Cycle	2025/10/20 ~ 2026/01/20	21.7~24.5	41 ~ 57	Alan
Emission Bandwidth And Occupied Bandwidth	2025/10/20 ~ 2026/01/14	21.7~24.5	41 ~ 57	Alan
Maximum Output Power	2025/10/20 ~ 2026/01/20	21.7~24.5	41 ~ 57	Alan
Power Spectral Density	2025/10/20 ~ 2026/01/14	21.7~24.5	41 ~ 57	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	13
		60	5300	13
		64	5320	11
UNII-2C		100	5500	12
		116	5580	12
		136	5680	11
UNII-3		140	5700	5
		149	5745	10
		157	5785	12
			165	5825
UNII-1	802.11n HT20	36	5180	12
		40	5200	12
		48	5240	10
UNII-2A		52	5260	12
		60	5300	12
		64	5320	10
UNII-2C		100	5500	13
		116	5580	13
		136	5680	11
UNII-3		140	5700	5
		149	5745	10
		157	5785	12
			165	5825
UNII-1	802.11ac VHT20	36	5180	12
		40	5200	12
		48	5240	10
UNII-2A		52	5260	12
		60	5300	12
		64	5320	10
UNII-2C		100	5500	13
		116	5580	13
		136	5680	11
UNII-3		140	5700	4
		149	5745	10
		157	5785	12
			165	5825
UNII-1	802.11 ax HE20	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	13
		136	5680	11
		140	5700	5
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: RRQ61051-009) 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	Daughter Board (Customer provided)	RENESAS	RRQ610x1 565-16-B
5	Antenna (Customer provided)	ARISTOTLE	RFA-27-H60-U-GB70

2.6 External Cable List and Details

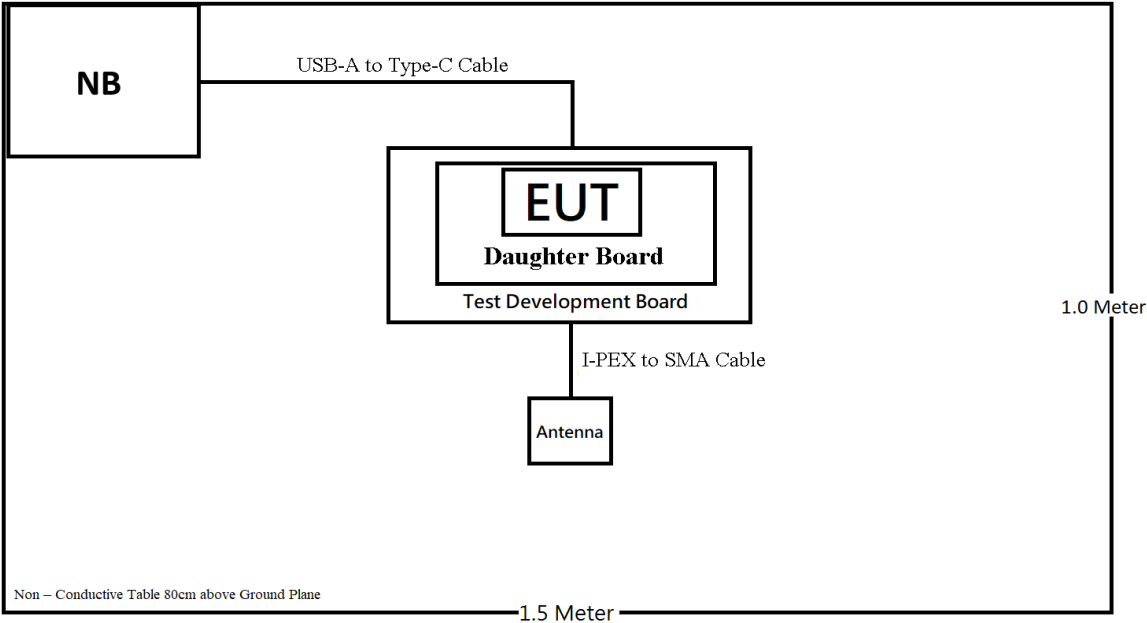
No.	Description	Manufacturer	Model
1	USB-A to Type-C Cable (Customer provided)	VENTION	COZ
2	I-PEX to SMA Cable (Customer provided)	TAOGLAS	0.2m

2.7 Block Diagram of Test Setup

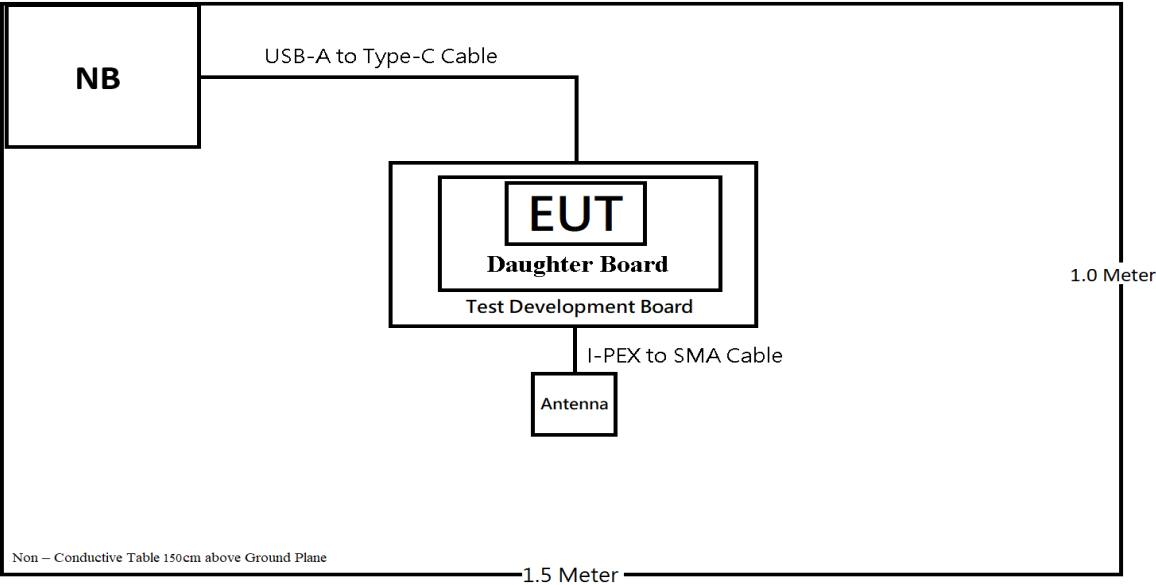
See test photographs attached in setup photos for the actual connections between EUT and support equipment.

Radiation:

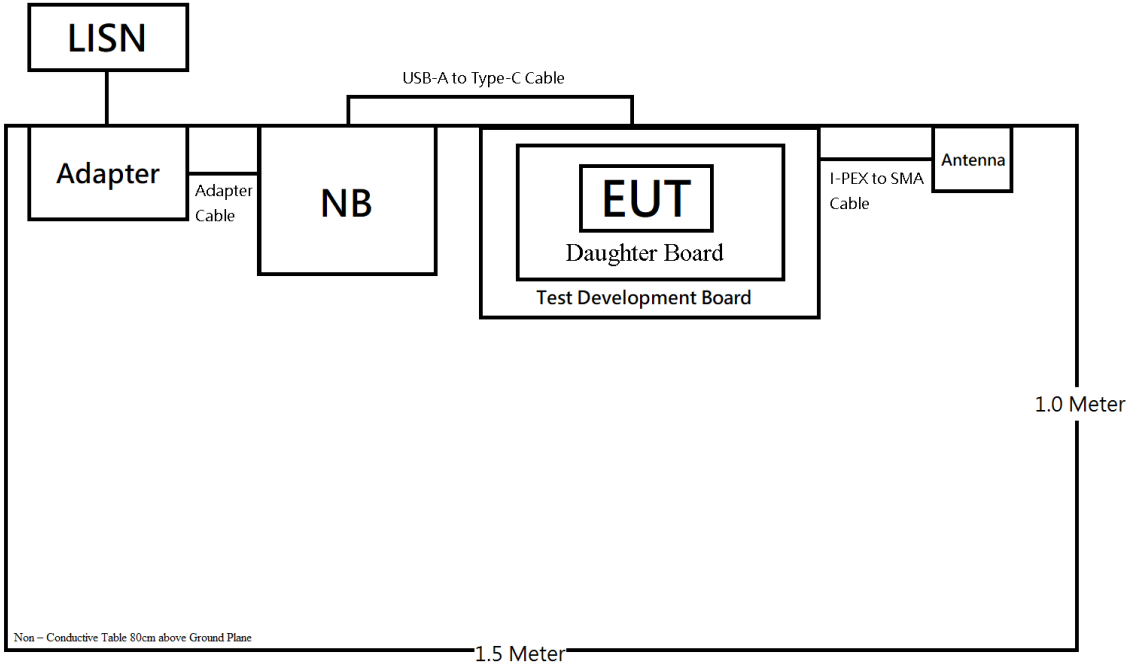
Below 1GHz



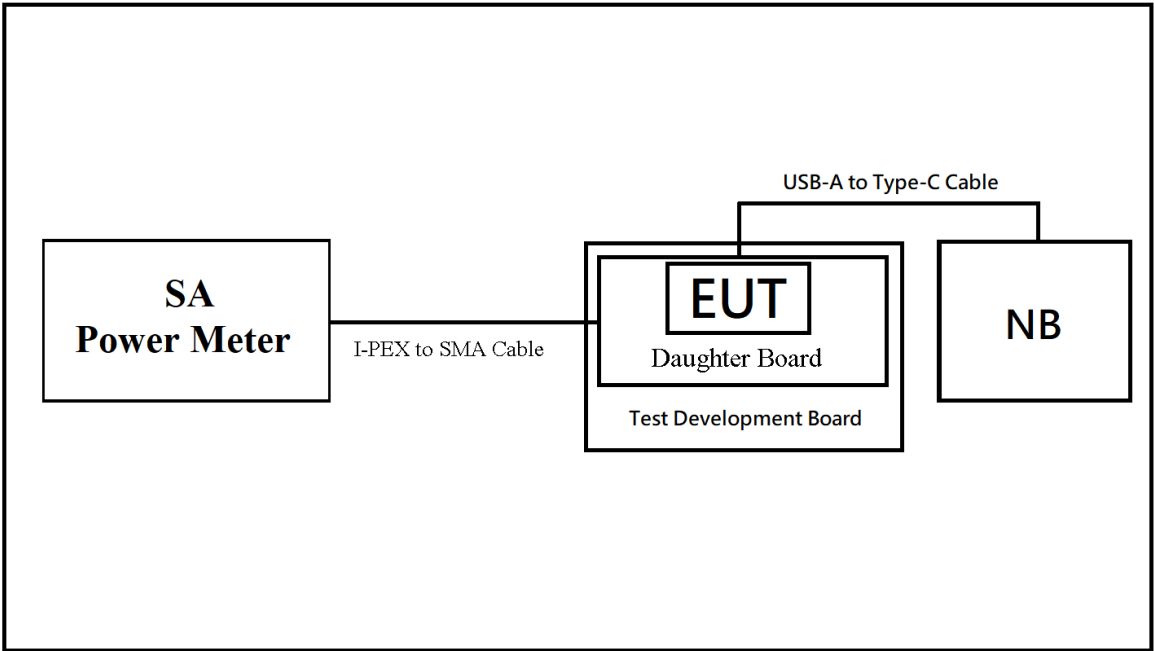
Above 1GHz:



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.

Test EUT Mode : RRQ61051-009

Radio Mode	On Time (ms)	On+Off Time (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T VBW Seting (kHz)	1/T (kHz)
802.11a	0.690	0.719	96	0.18	3	1.44
802.11 n20	0.292	0.320	91	0.41	5	3.42
802.11 ac20	3.732	3.770	99	0	/	0.27
802.11 ax20	2.852	2.880	99	0	/	0.35

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

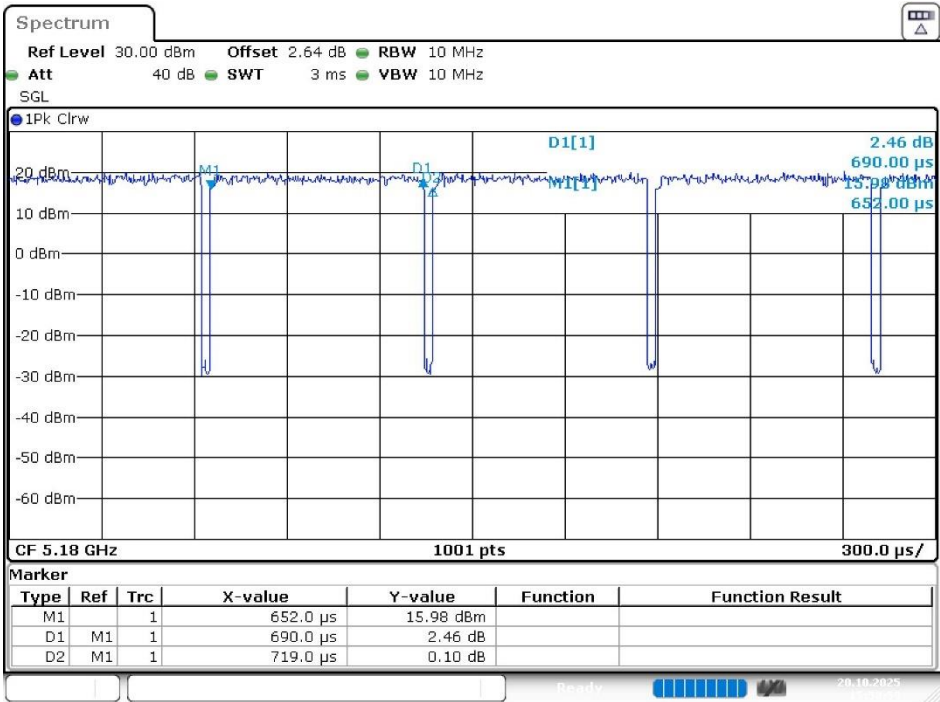
Please refer to the following plots.

Test EUT Mode : RRQ61051-009

Radio Mode	On Time (ms)	On+Off Time (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T VBW Seting (kHz)	1/T (kHz)
802.11a	0.695	0.725	96	0.18	3	1.44
802.11 n20	0.295	0.321	91	0.41	5	3.42
802.11 ac20	3.743	3.765	99	0	/	0.27
802.11 ax20	2.846	2.866	99	0	/	0.35

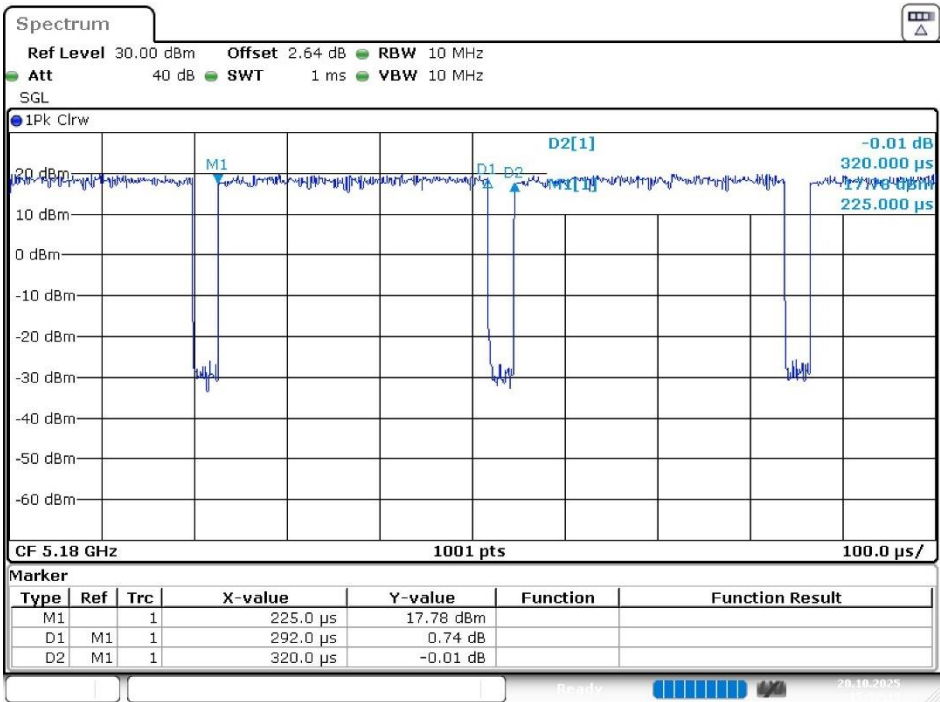
Test EUT Mode : RRQ61051-009

802.11a Mode



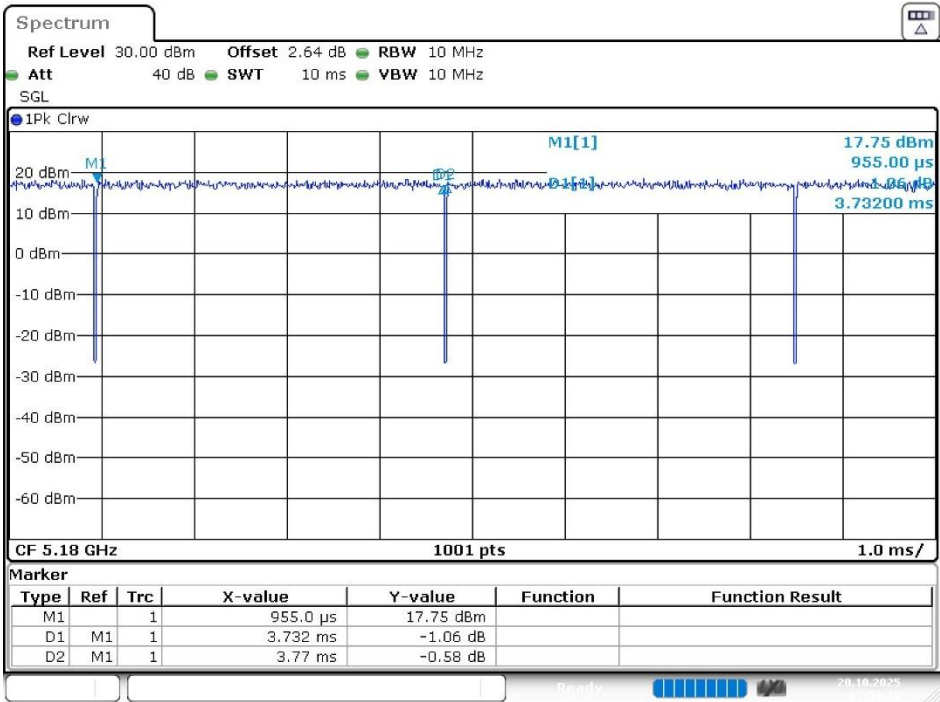
Date: 20.OCT.2025 15:50:59

802.11 n20 Mode



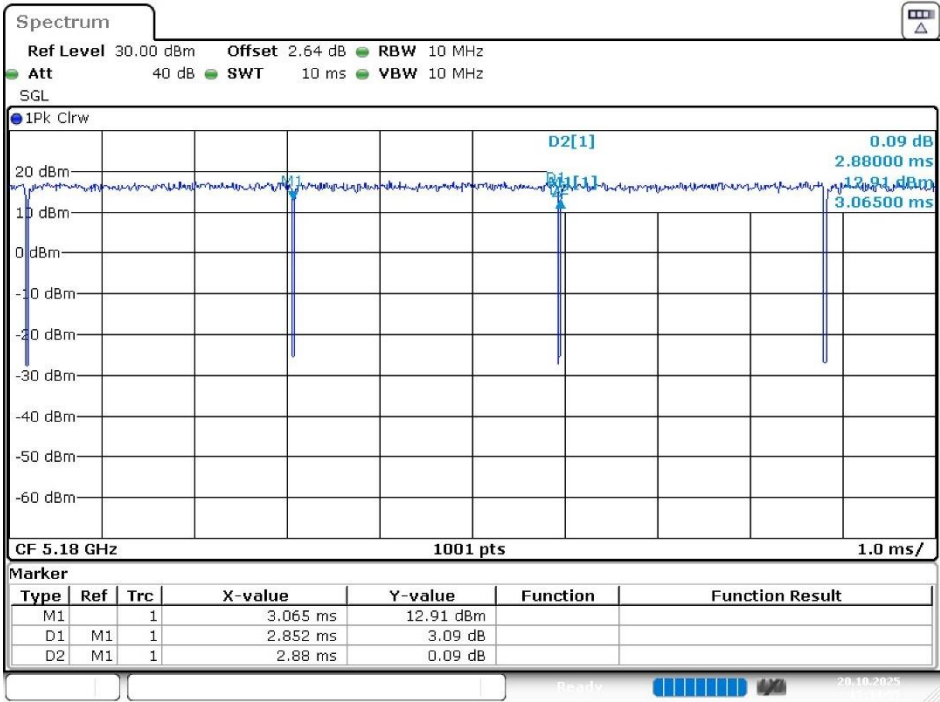
Date: 20.OCT.2025 15:52:19

802.11 ac20 Mode



Date: 20.OCT.2025 15:54:16

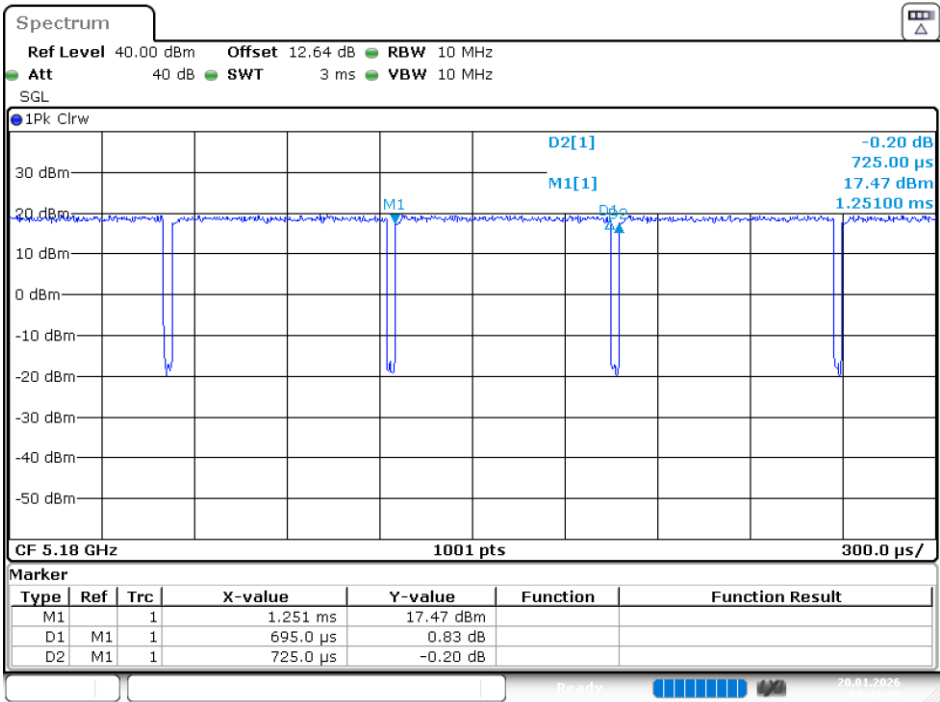
802.11 ax20 Mode



Date: 20.OCT.2025 15:54:55

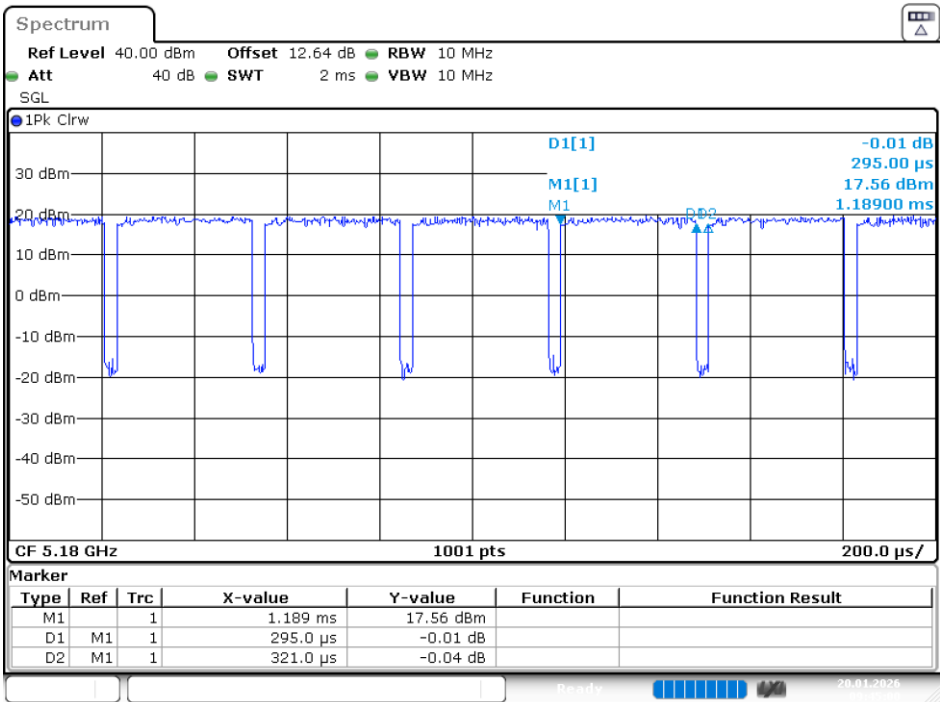
Test EUT Mode : RRQ61051-010

802.11a Mode



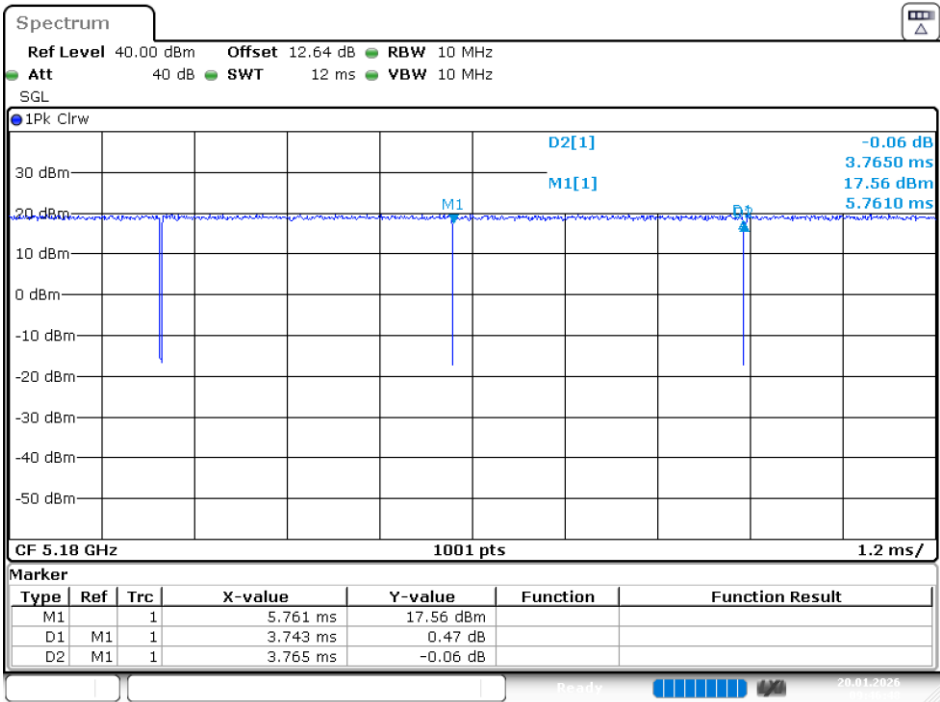
Date: 20.JAN.2026 09:43:36

802.11 n20 Mode



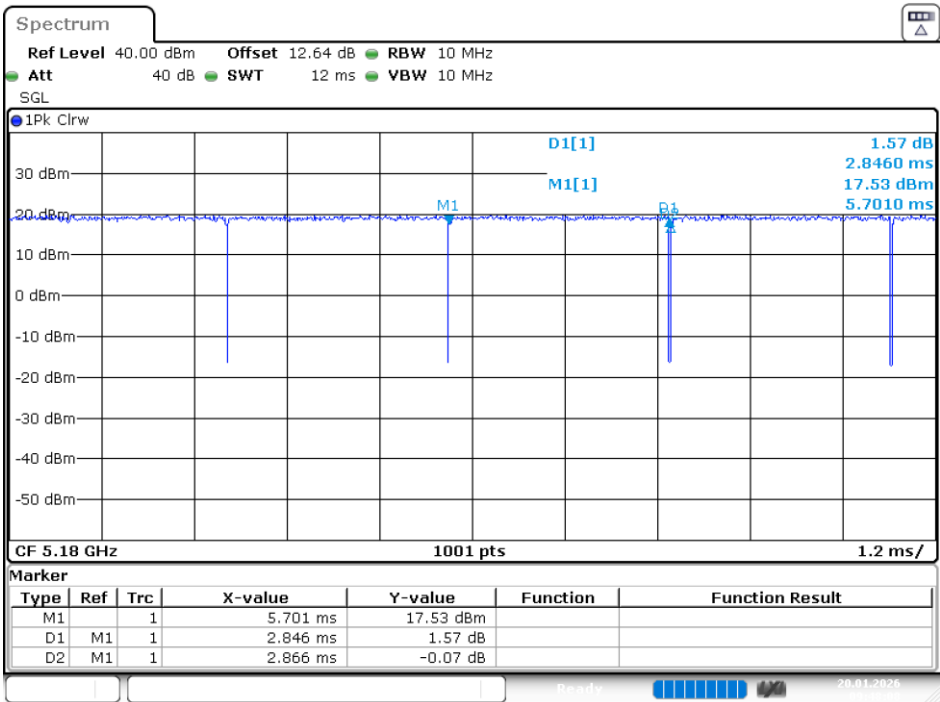
Date: 20.JAN.2026 09:45:01

802.11 ac20 Mode



Date: 20.JAN.2026 09:46:49

802.11 ax20 Mode



Date: 20.JAN.2026 09:48:09

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-B)					
Bilog Antenna & 6 dB Attenuator	SUNOL SCIENCES & EMCI	JB3 & N-6-06	A071318 & AT-N0670	2025/08/14	2026/08/14
Active Loop Antenna	ETS-Lindgren	6502	0001-3322	2025/03/27	2026/03/27
Horn Antenna	ETS-Lindgren	3115	85775	2025/10/03	2026/10/03
Horn Antenna	ETS-Lindgren	3160-09	123853	2025/08/28	2026/08/28
Horn Antenna	ETS-Lindgren	3160-10	123856	2025/08/28	2026/08/28
18-40GHz Preamplifier	GLOBAL	1313-A1840	5031371	2025/04/28	2026/04/28
30M-18GHz Preamplifier	A.H. Systems	PAM-0118P	479	2025/09/05	2026/09/05
ESR EMI Test Receiver	Rohde & Schwarz	ESR3	102430	2025/04/25	2026/04/25
Spectrum Analyzer	Rohde & Schwarz	FSV40	101456	2025/06/05	2026/06/05
Microflex Cable (1m)	EMCI	EMCI02-KM-KM-1000	180524	2025/08/01	2026/08/01
Microflex Cable (2m)	EMCI	EMCI06-SM-SM-2000	180516	2025/08/01	2026/08/01
Microflex Cable (8m)	UTIFLEX	UFA210A-1-3149-300300	MFR 64639 232490-002	2025/08/01	2026/08/01
Software	AUDIX	E3 V9	E3LK-02	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	2027/01/05
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.

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

(Linkou Laboratory)

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)
Aristotle	RFA-27-H60-U-GB70	Dipole Antenna	5150~5250 MHz: 4.4 5250~5350 MHz: 4.4 5470~5725 MHz: 4.4 5725~5850 MHz: 4.4

Unit uses a unique coupling to the intentional radiator.

Cable Loss of the I-Pex Cable used for antenna connection :

UNII-1 Band I 5150~5250 MHz : 2.64 dB

UNII-2A Band II 5250~5350 MHz : 2.66 dB

UNII-2C Band III 5470~5725 MHz : 2.75 dB

UNII-3 Band IV 5725~5850 MHz : 2.77 dB

Result: Compliance

6 FCC§15.207 – AC Line Conducted Emissions

6.1 Applicable Standard

As per FCC §15.207

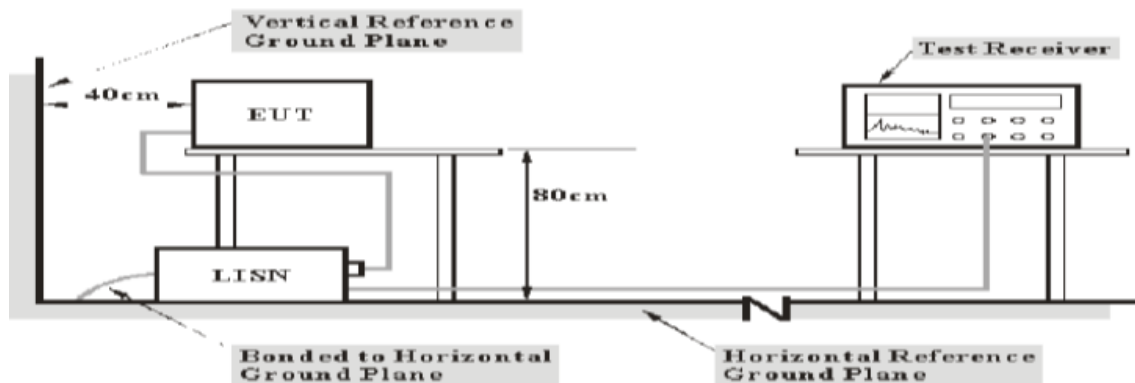
Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in §15.207

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:

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

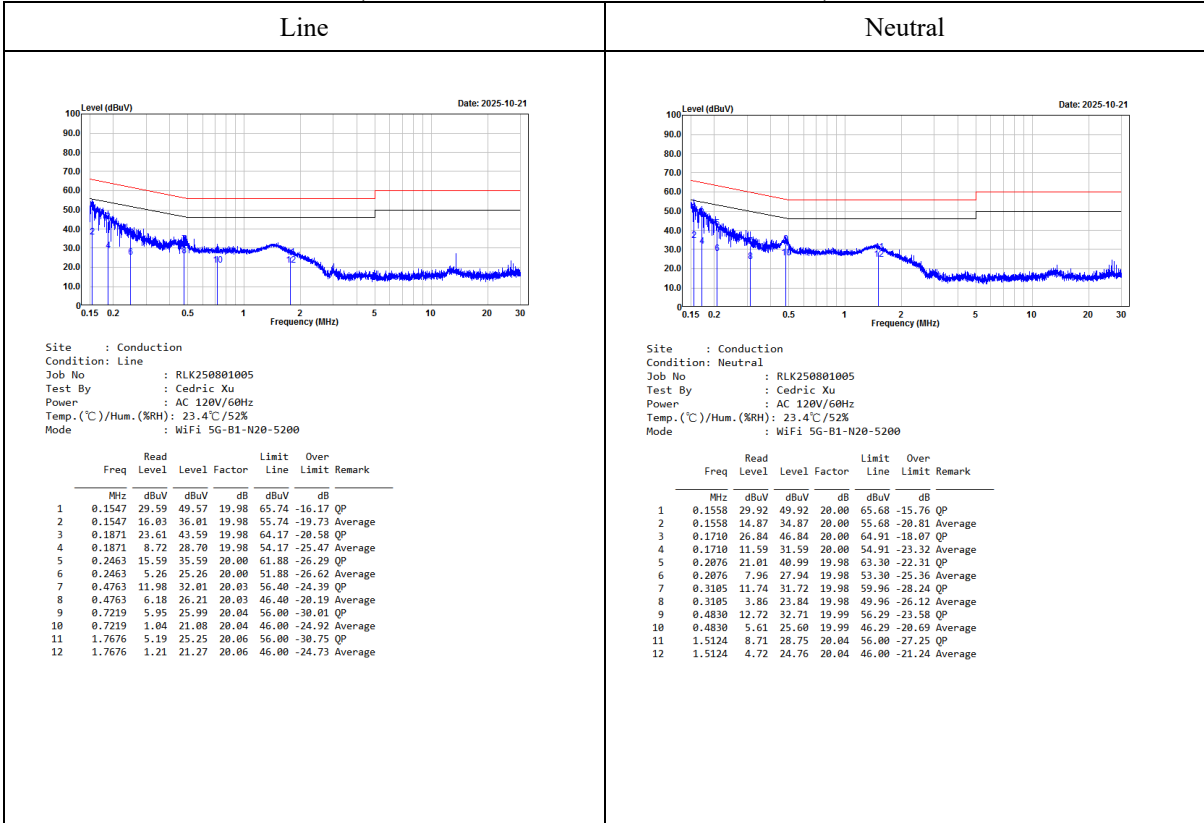
The “Over Limit” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an over limit of -7 dB means the emission is 7 dB below the limit. The equation for Over Limit calculation is as follows:

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

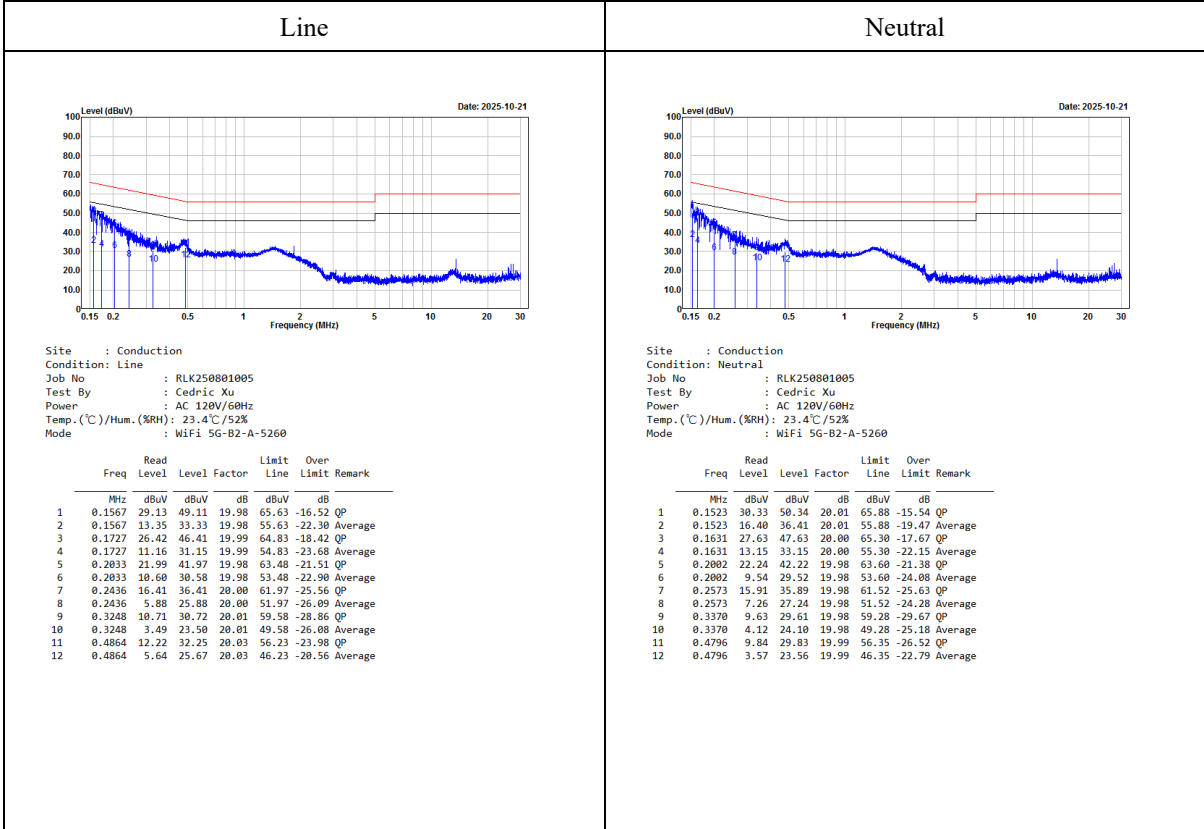
6.6 Test Results

Test Mode: Transmitting

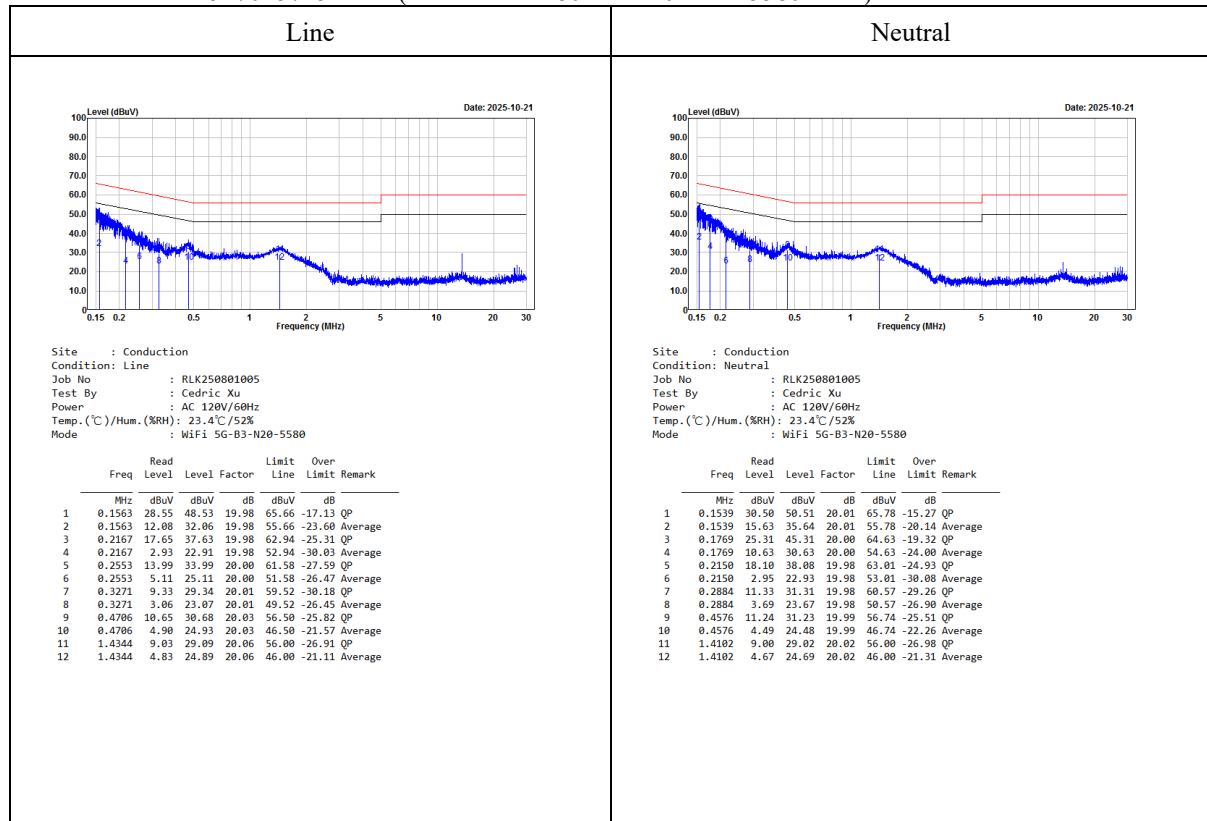
UNII-1 Band I 5150~5250 MHz (Worst case is 802.11 n20 mode 5200 MHz)



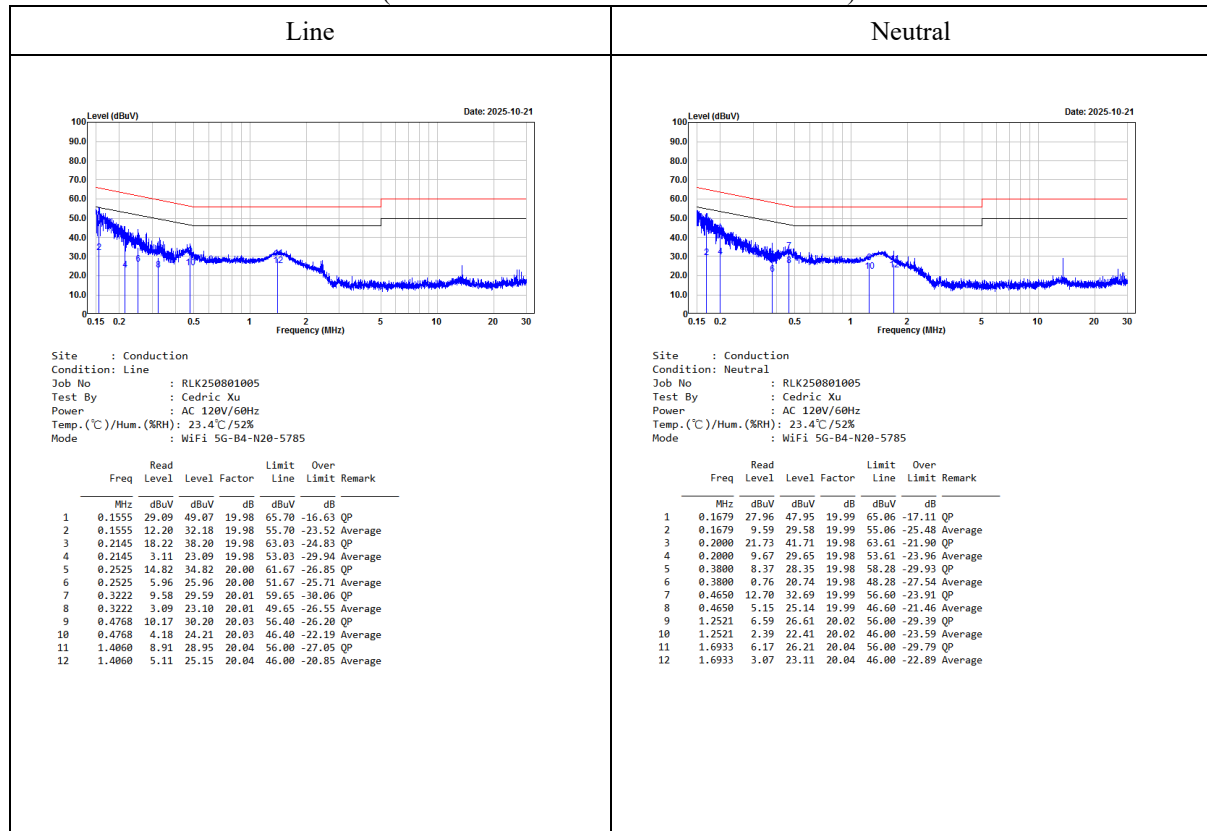
UNII-2A Band II 5250~5350 MHz (Worst case is 802.11 a mode 5260 MHz)



UNII-2C Band III 5470~5725 MHz (Worst case is 802.11 n20 mode 5580 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

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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.

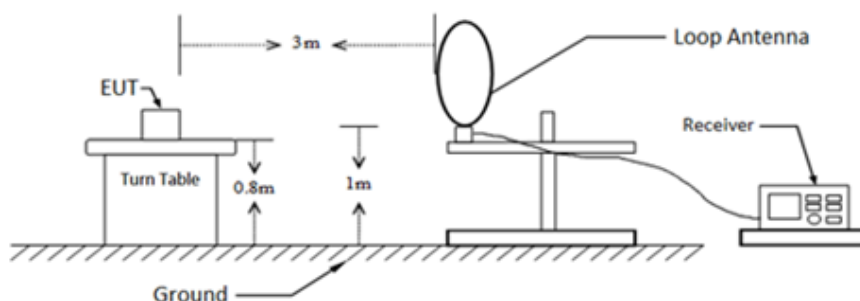
Devices certified before March 2, 2017 with antenna gain greater than 10 dBi may demonstrate compliance with the emission limits in § 15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease by March 2, 2018. Devices certified before March 2, 2018 with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

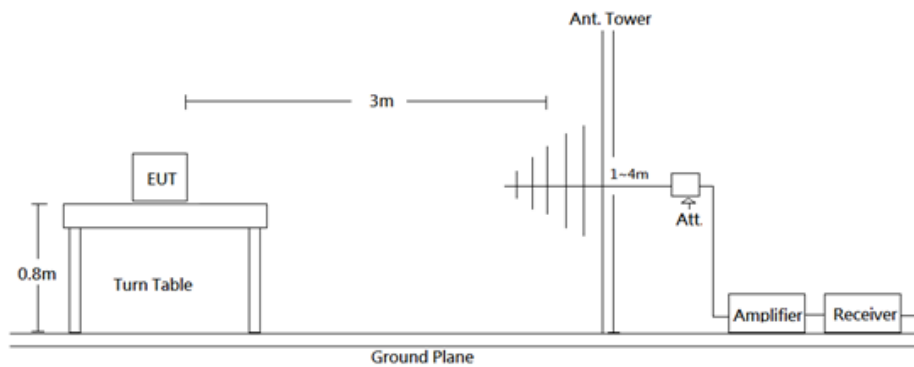
Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209.

7.2 EUT Setup

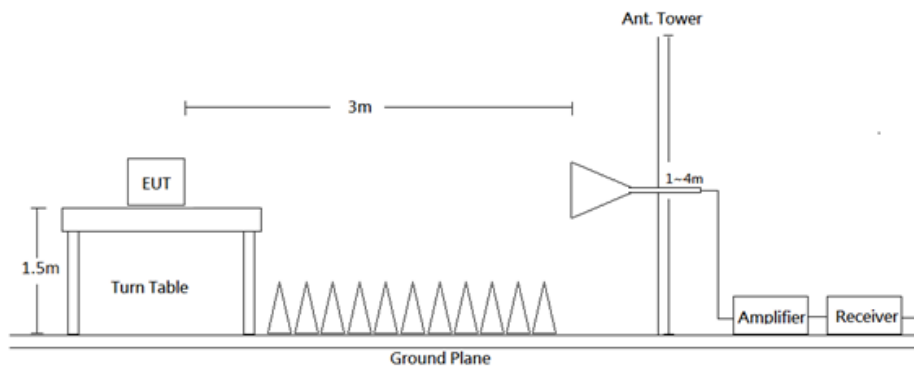
9kHz-30MHz:



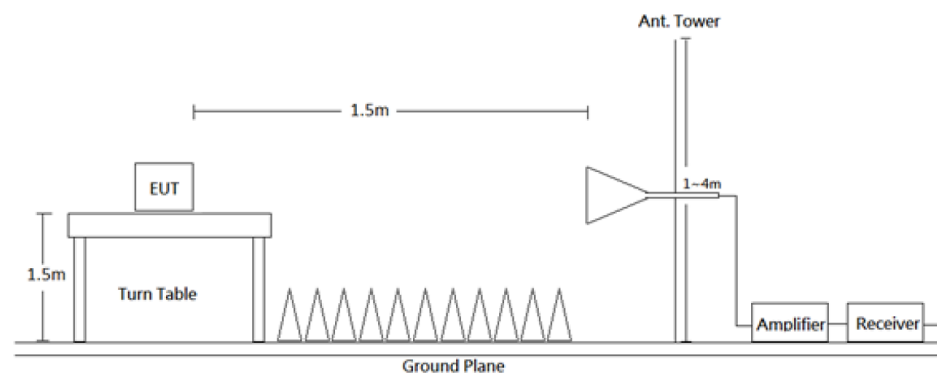
30MHz-1GHz:



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, a margin 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

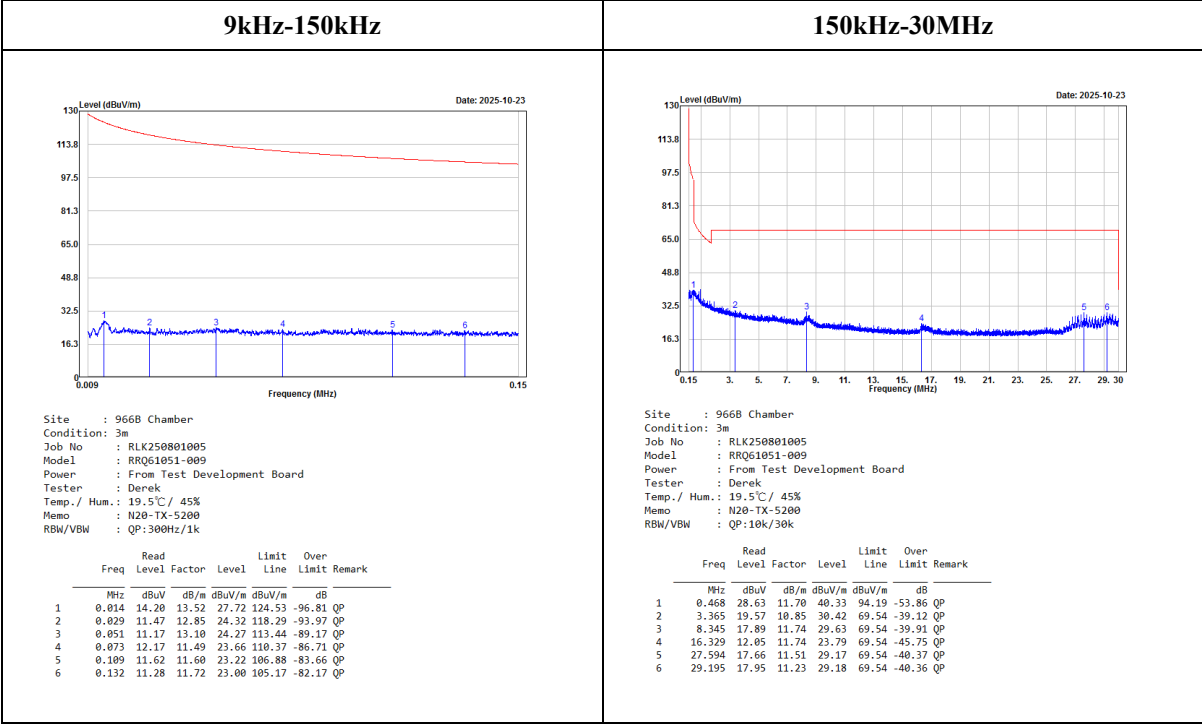
Test Mode: Transmitting

Test EUT Mode : RRQ61051-009

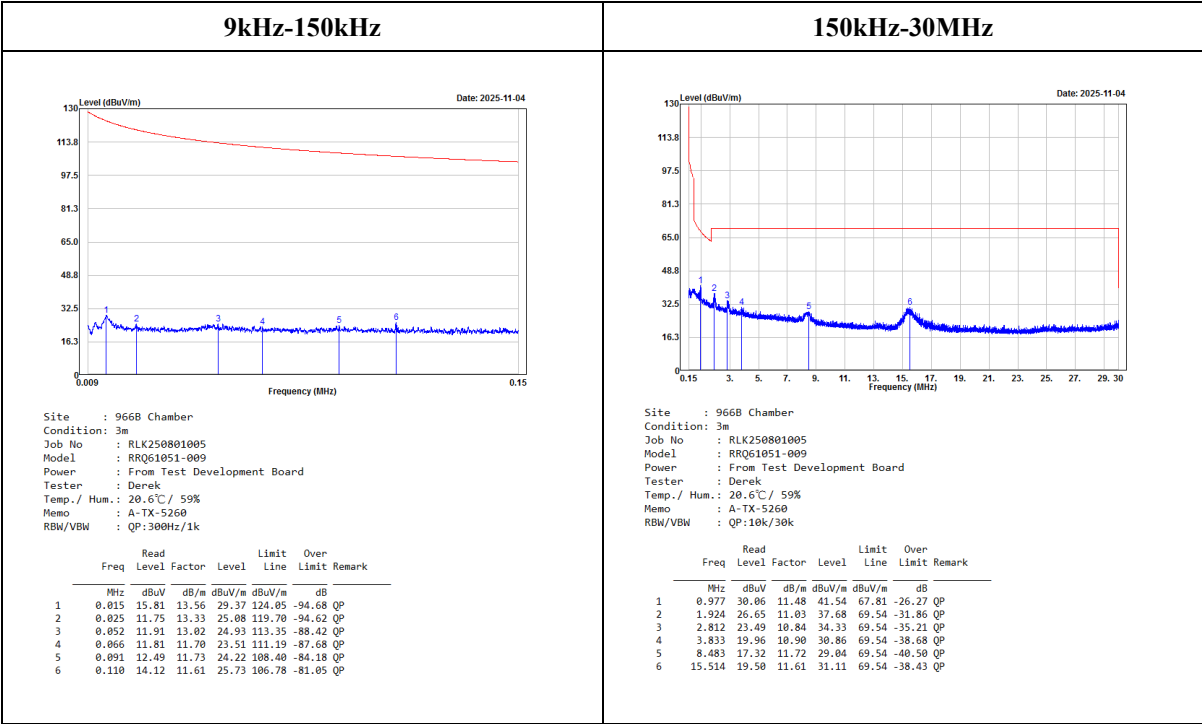
(Pre-scan with three orthogonal axis, and worse case as Z axis.)

9kHz-30MHz: (Pre-scan using three directional polarities, worst case as parallel.)

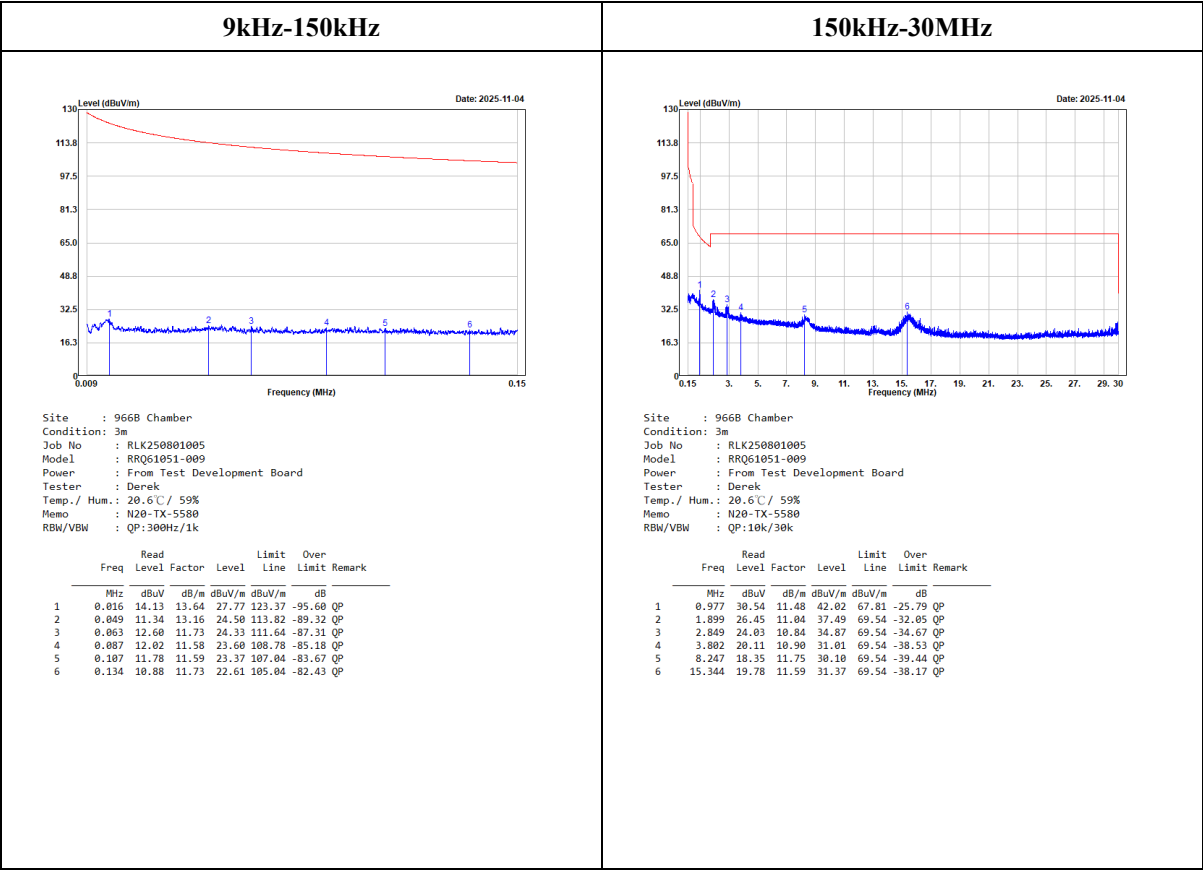
UNII-1 Band I 5150~5250 MHz (Worst case is 802.11 n20 mode, 5200 MHz)



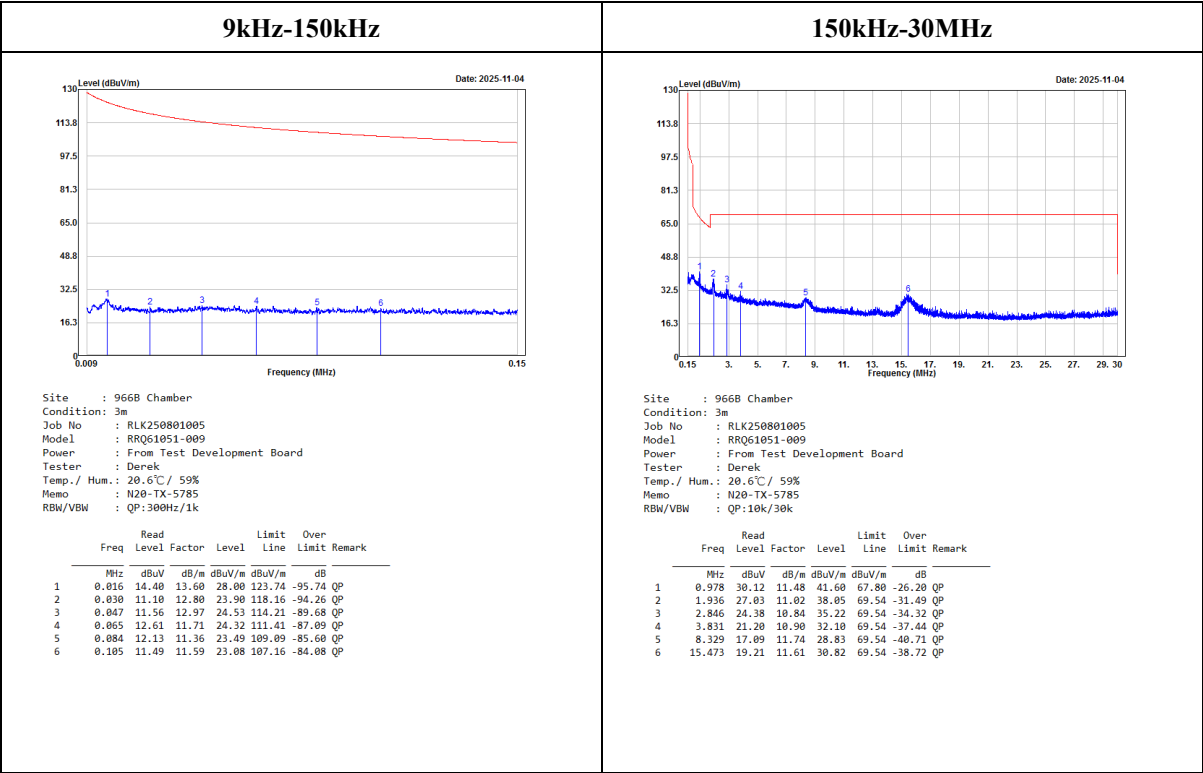
UNII-2A Band II 5250~5350 MHz (Worst case is 802.11a mode, 5260 MHz)



UNII-2C Band III 5470~5725 MHz (Worst case is 802.11 n20 mode, 5580 MHz)



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



Level = Reading + Factor.

Over Limit = Level – Limit.

Factor = Antenna Factor + Cable Loss – Amplifier Gain.

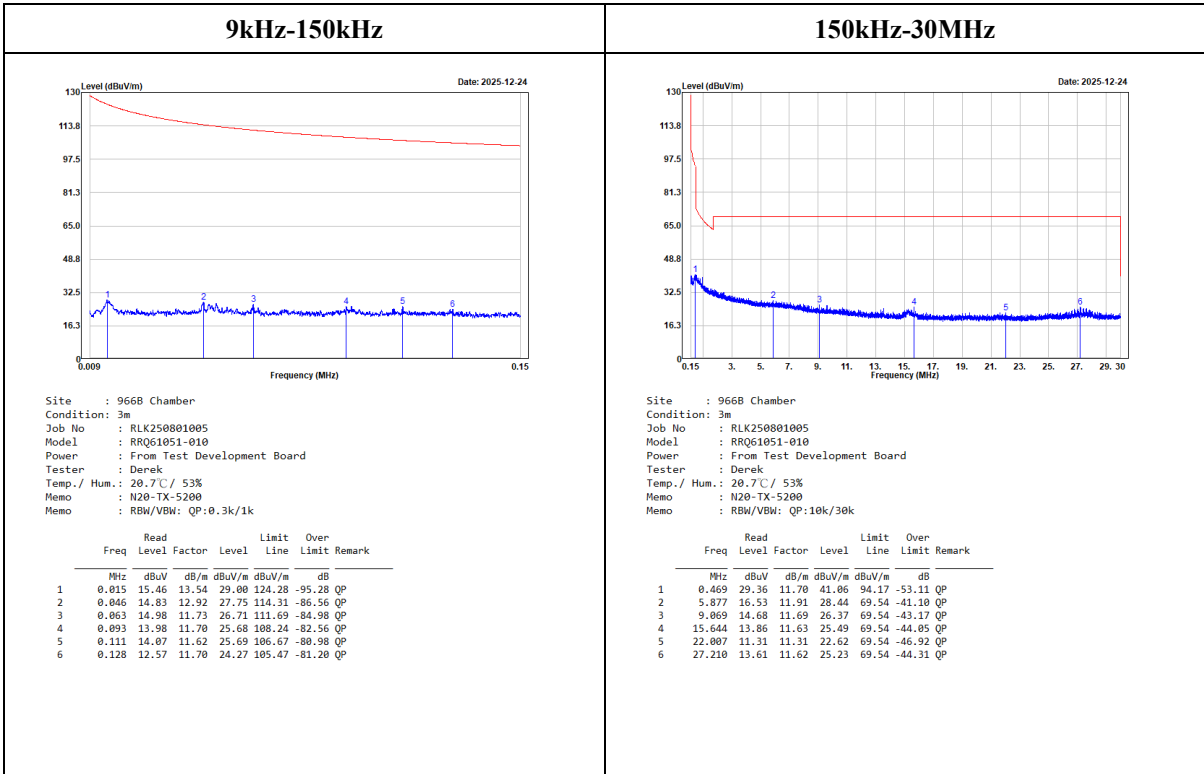
Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Linkou Laboratory)

Test EUT Mode : RRQ61051-010

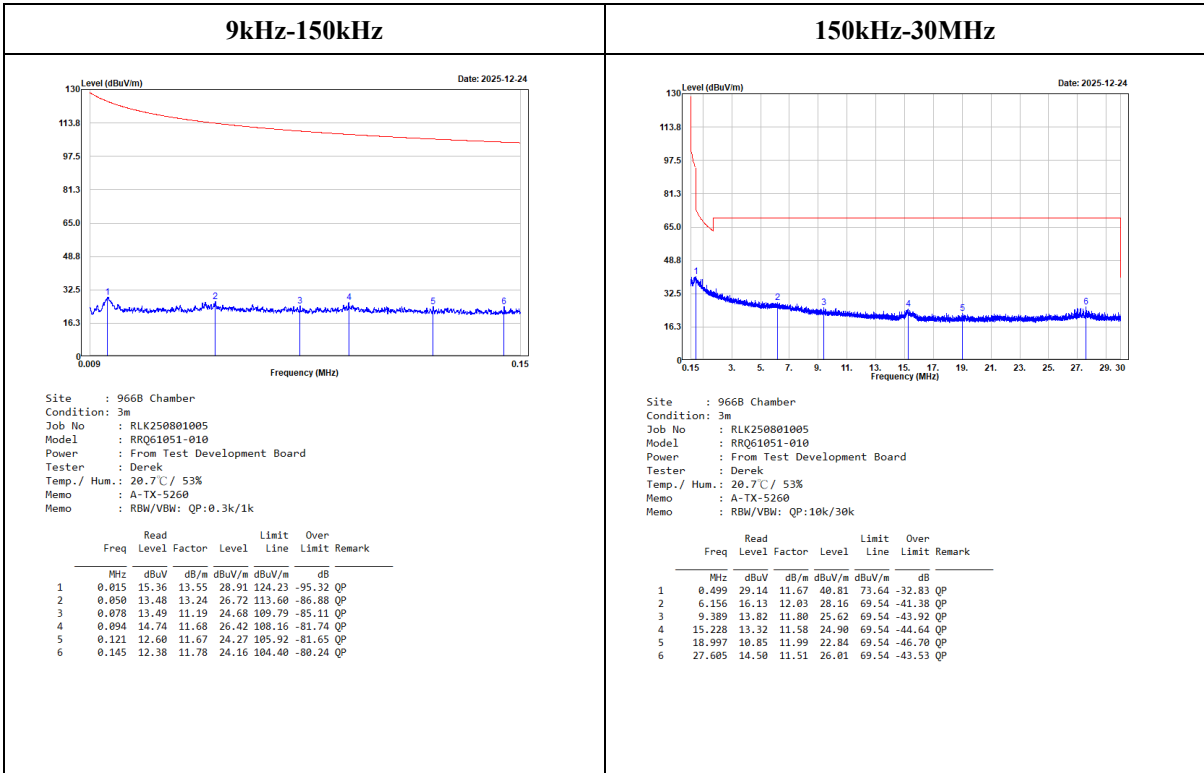
(Pre-scan with three orthogonal axis, and worse case as Z axis.)

9kHz-30MHz: (Pre-scan using three directional polarities, worst case as parallel.)

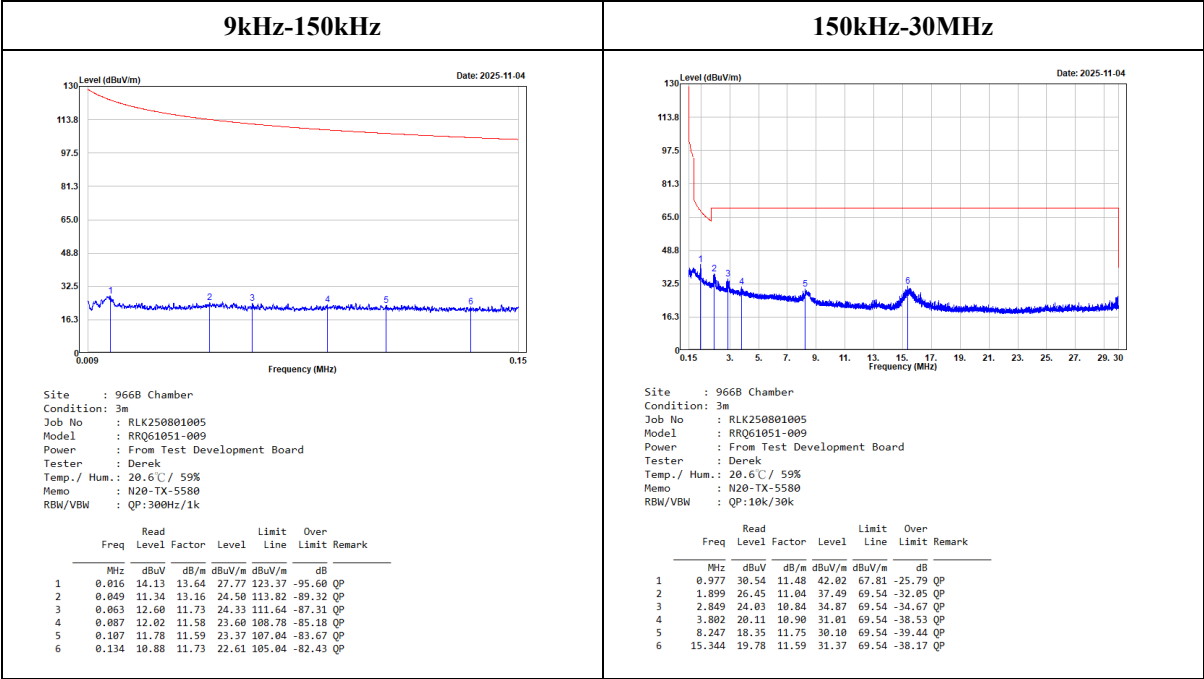
UNII-1 Band I 5150~5250 MHz (Worst case is 802.11 n20 mode, 5200 MHz)



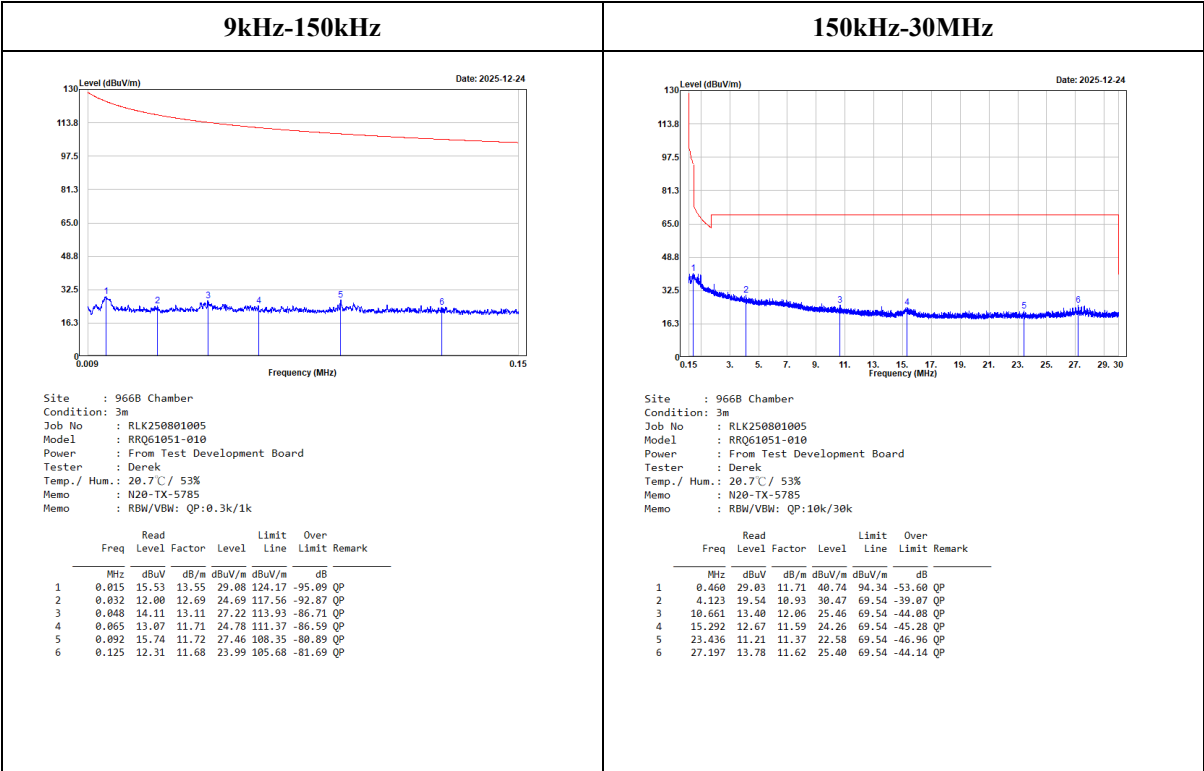
UNII-2A Band II 5250~5350 MHz (Worst case is 802.11a mode, 5260 MHz)



UNII-2C Band III 5470~5725 MHz (Worst case is 802.11 n20 mode, 5580 MHz)



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



Level = Reading + Factor.

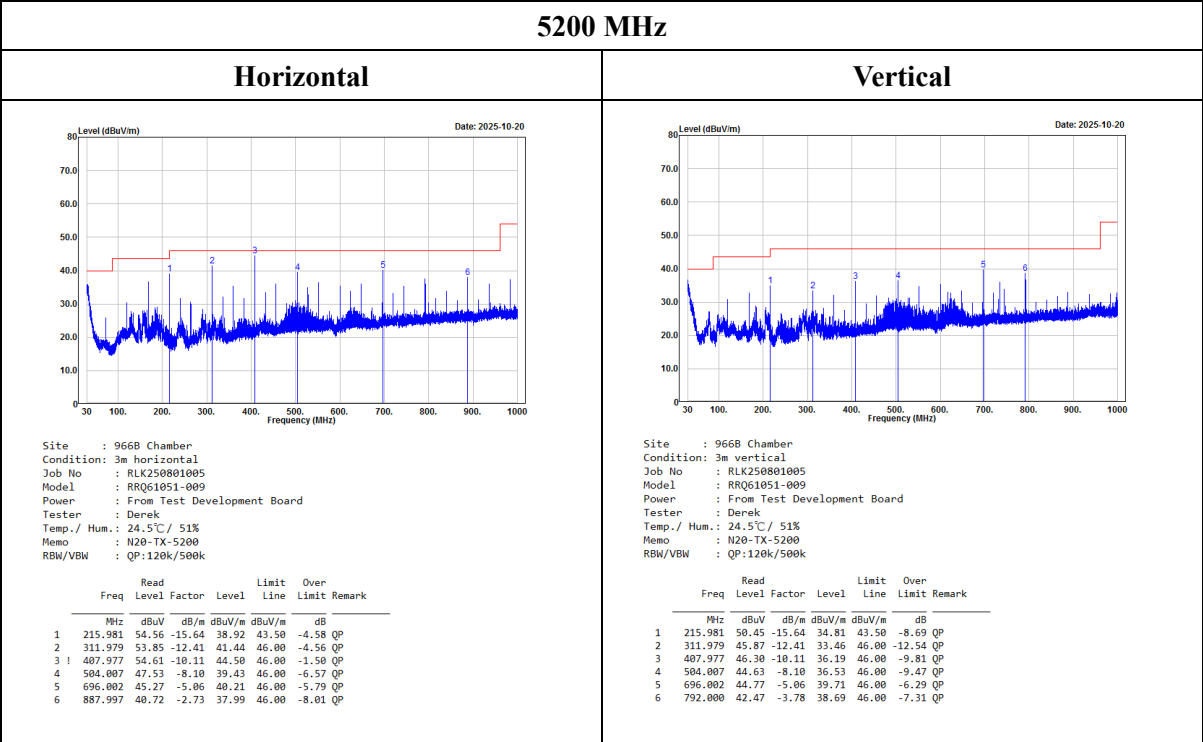
Over Limit = Level - Limit.

Factor = Antenna Factor + Cable Loss - Amplifier Gain.

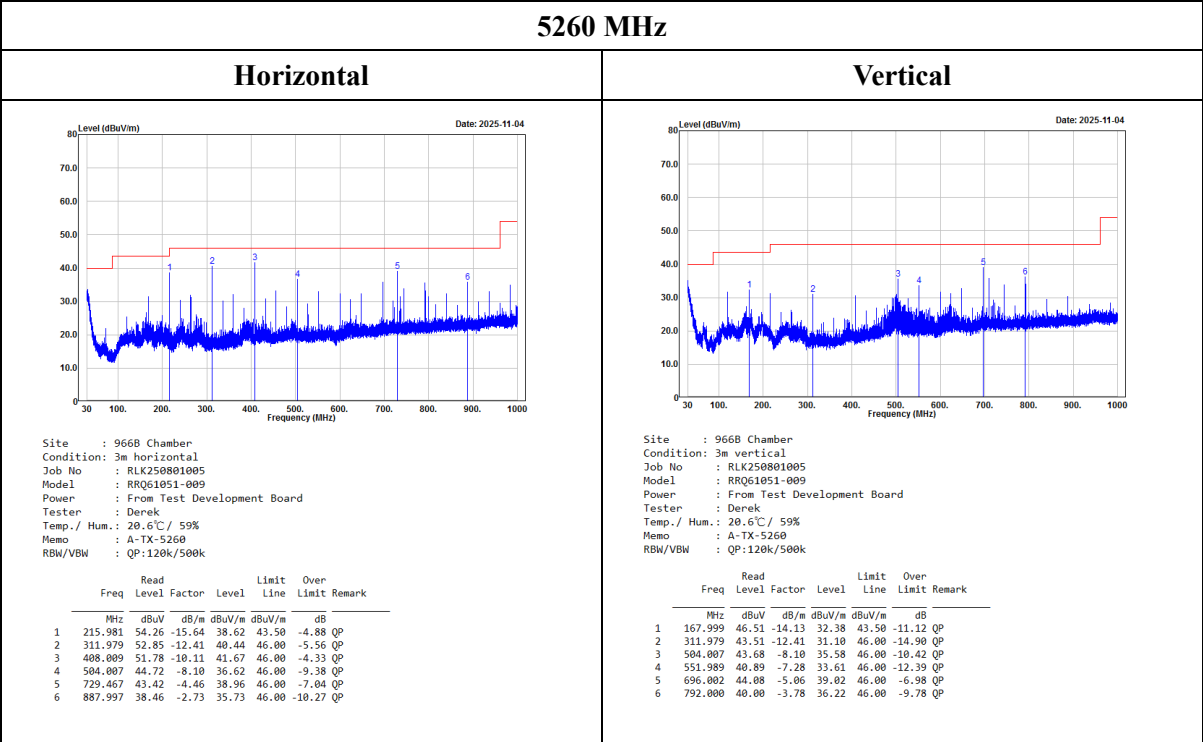
Test EUT Mode : RRQ61051-009

30MHz-1GHz:

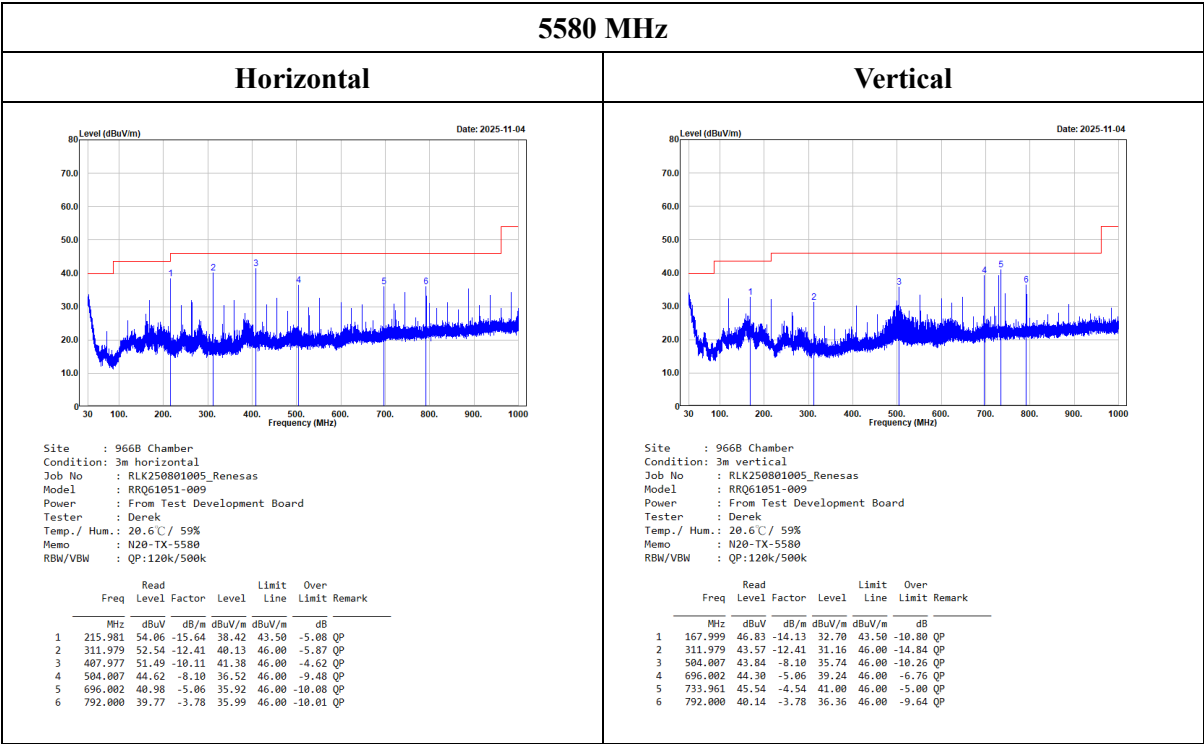
UNII-1 Band I 5150~5250 MHz (Worst case is 802.11n20 Mode)



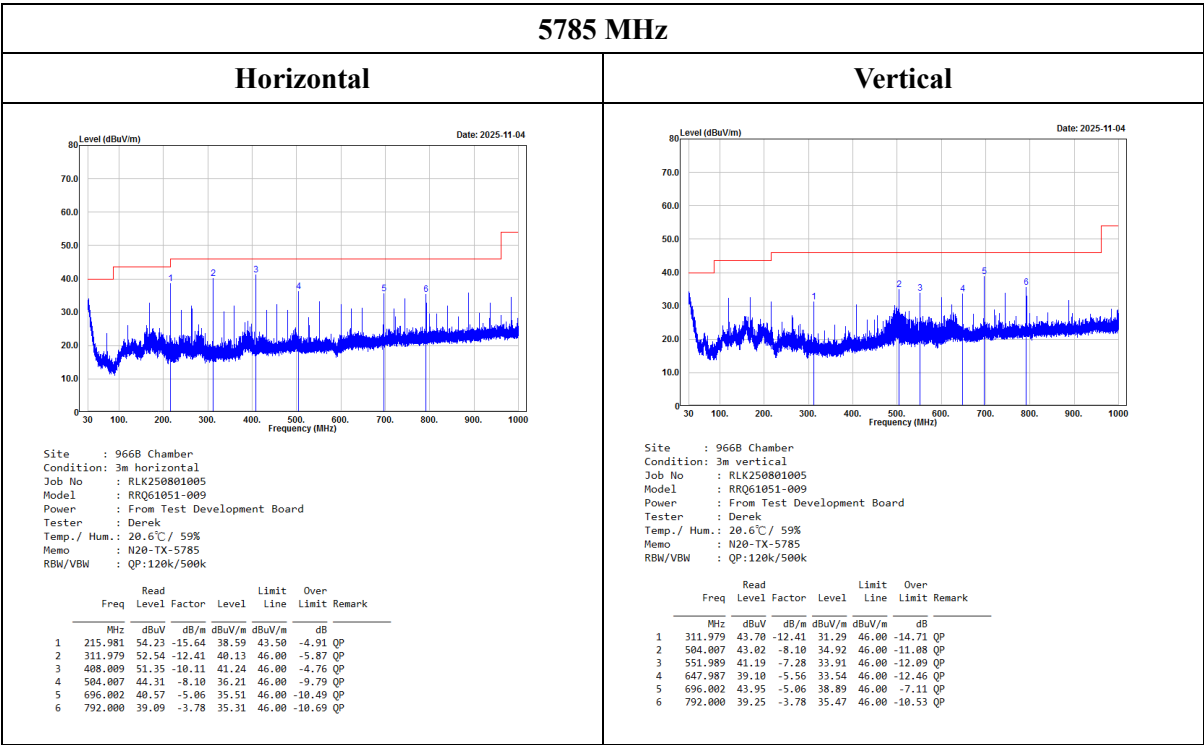
UNII-2A Band II 5250~5350 MHz (Worst case is 802.11a Mode)



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.

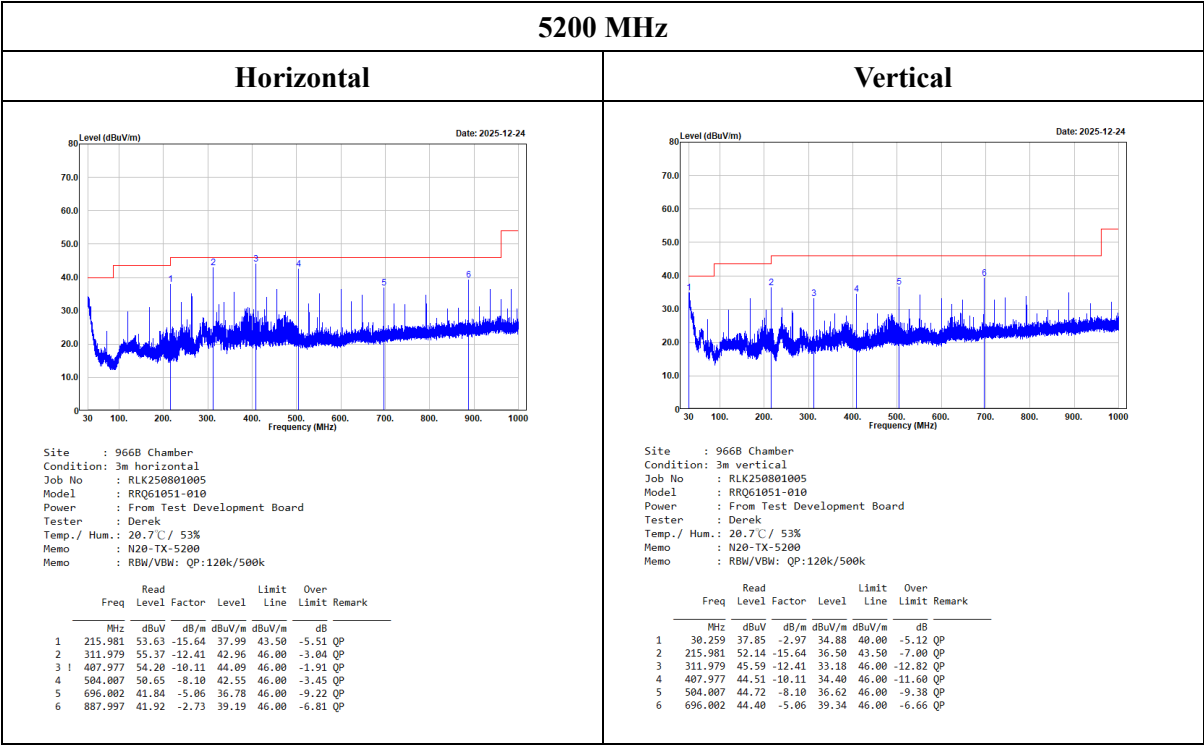
Over Limit = Level – Limit.

Factor = Antenna Factor + Cable Loss – Amplifier Gain.

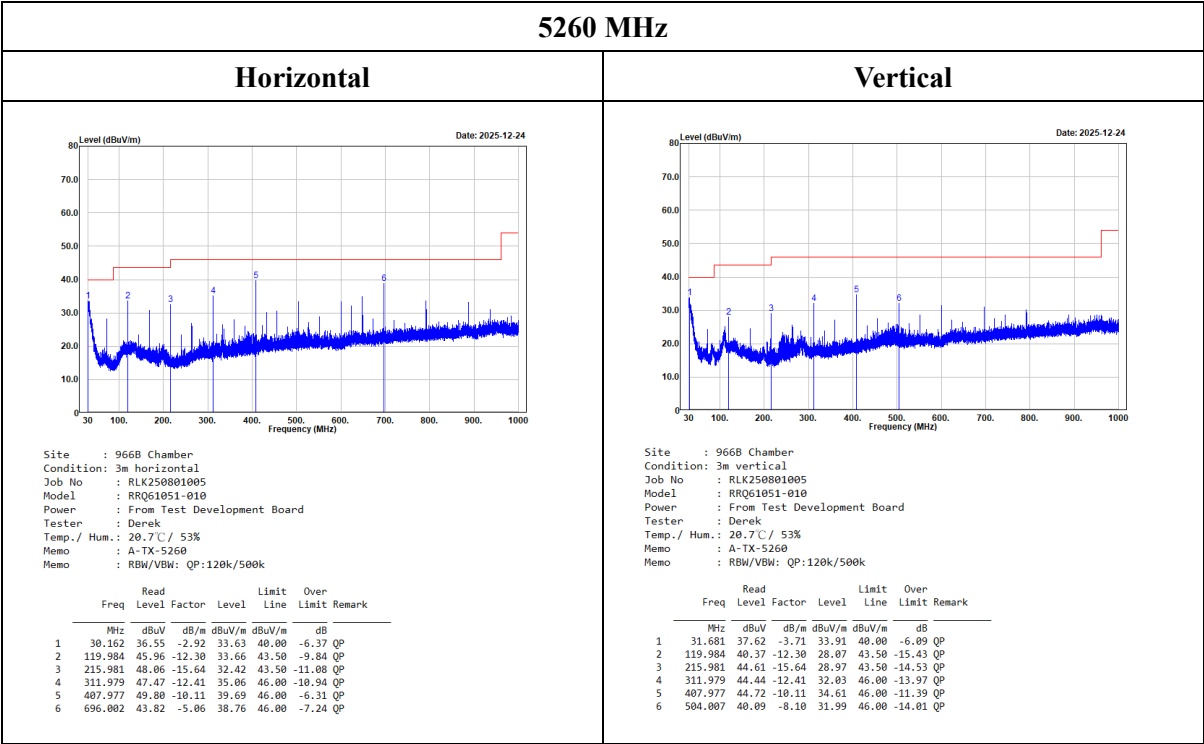
Test EUT Mode : RRQ61051-010

30MHz-1GHz:

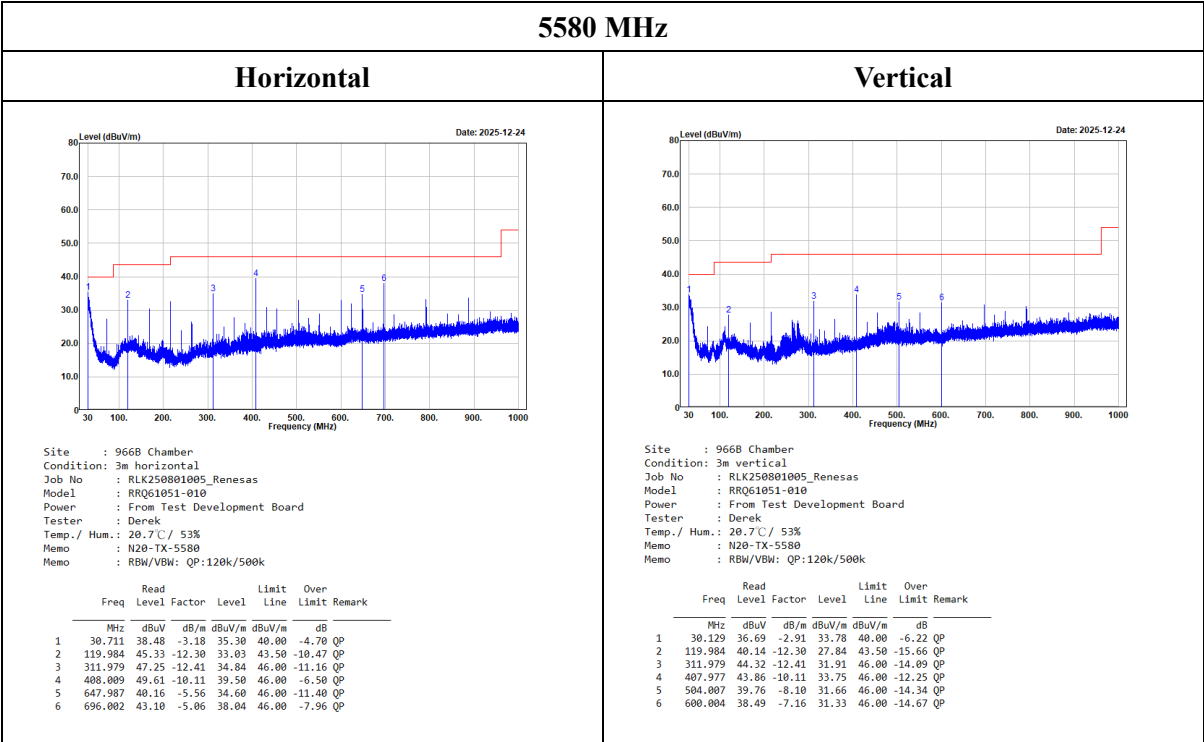
UNII-1 Band I 5150~5250 MHz (Worst case is 802.11n20 Mode)



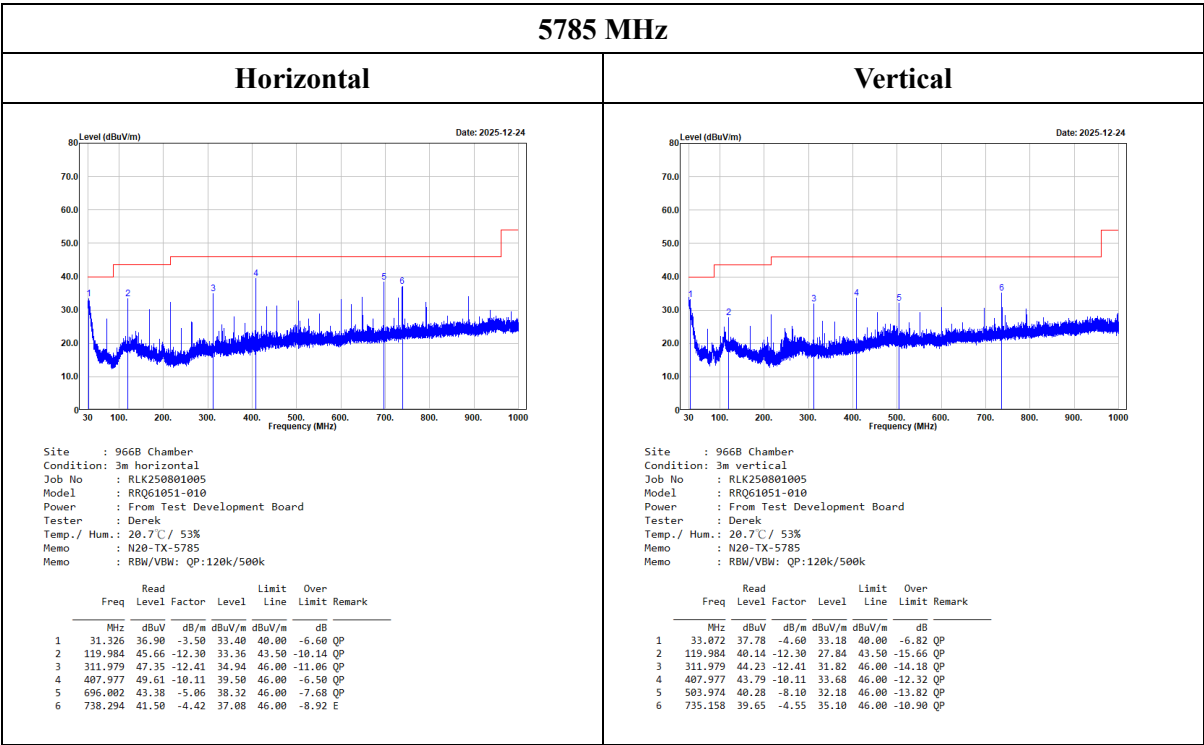
UNII-2A Band II 5250~5350 MHz (Worst case is 802.11a Mode)



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.

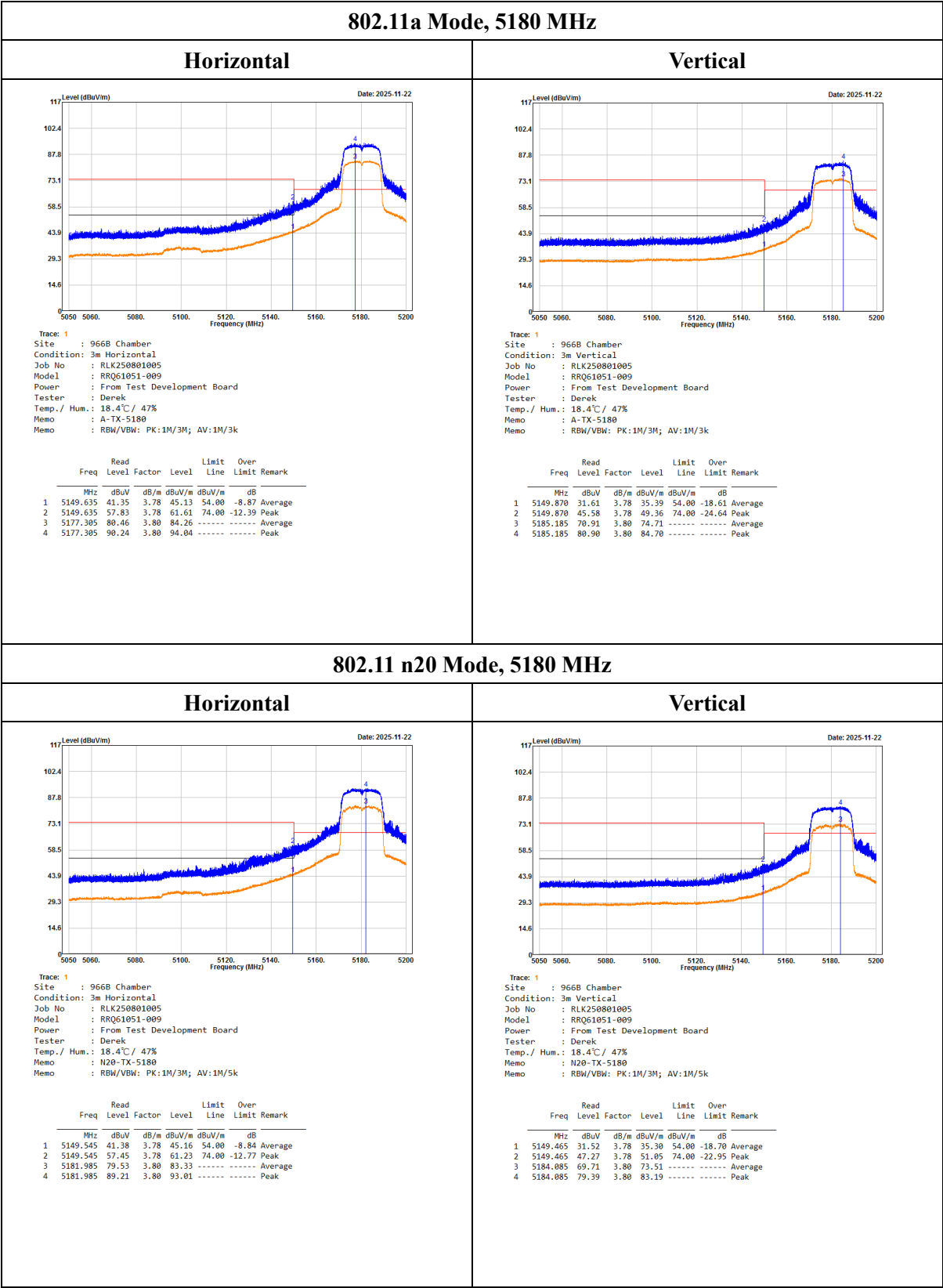
Over Limit = Level – Limit.

Factor = Antenna Factor + Cable Loss – Amplifier Gain.

Test EUT Mode : RRQ61051-009

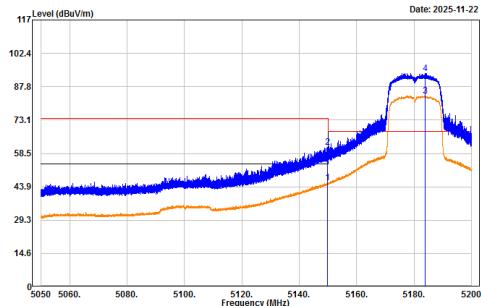
Band-Edge

UNII-1 Band I 5150~5250 MHz



802.11 ac20 Mode, 5180 MHz

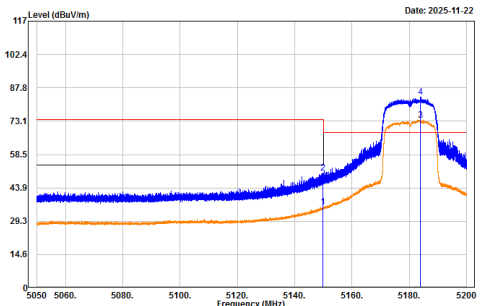
Horizontal



Trace: 1
Site : 966B Chamber
Condition: 3m Horizontal
Job No : RLK250801005
Model : RRQ61051-009
Power : From Test Development Board
Tester : Derek
Temp./ Hum.: 18.4°C / 47%
Memo : AC20-TX-5180
Memo : RBW/VBW: PK:1M/3M; AV:1M/3k

	Read	Limit	Over	
Freq	Level	Factor	Level	Line
MHz	dBuV	dB/m	dBuV/m	dB
1 5149.815	41.88	3.78	45.66	54.00
2 5149.815	57.53	3.78	61.31	74.00
3 5183.925	79.85	3.80	83.65	-----
4 5183.925	89.84	3.80	93.64	-----

Vertical

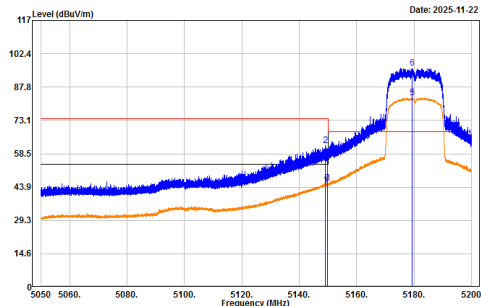


Trace: 1
Site : 966B Chamber
Condition: 3m Vertical
Job No : RLK250801005
Model : RRQ61051-009
Power : From Test Development Board
Tester : Derek
Temp./ Hum.: 18.4°C / 47%
Memo : AC20-TX-5180
Memo : RBW/VBW: PK:1M/3M; AV:1M/3k

	Read	Limit	Over	
Freq	Level	Factor	Level	Line
MHz	dBuV	dB/m	dBuV/m	dB
1 5149.880	31.70	3.78	35.48	54.00
2 5149.880	46.64	3.78	50.42	74.00
3 5183.835	69.72	3.80	73.52	-----
4 5183.835	79.92	3.80	83.72	-----

802.11 ax20 Mode, 5180 MHz

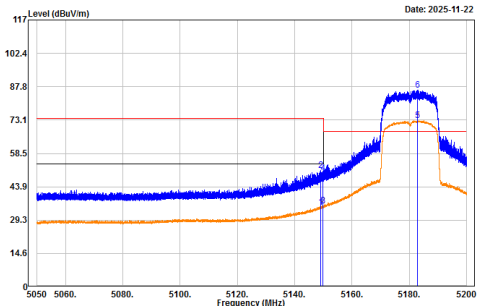
Horizontal



Trace: 1
Site : 966B Chamber
Condition: 3m Horizontal
Job No : RLK250801005
Model : RRQ61051-009
Power : From Test Development Board
Tester : Derek
Temp./ Hum.: 18.4°C / 47%
Memo : AX20-TX-5180
Memo : RBW/VBW: PK:1M/3M; AV:1M/3k

	Read	Limit	Over	
Freq	Level	Factor	Level	Line
MHz	dBuV	dB/m	dBuV/m	dB
1 5149.050	40.84	3.78	44.62	54.00
2 5149.050	58.42	3.78	62.20	74.00
3 5149.880	41.88	3.78	45.66	54.00
4 5149.880	53.54	3.78	57.32	74.00
5 5179.255	79.17	3.80	82.97	-----
6 5179.255	92.35	3.80	96.15	-----

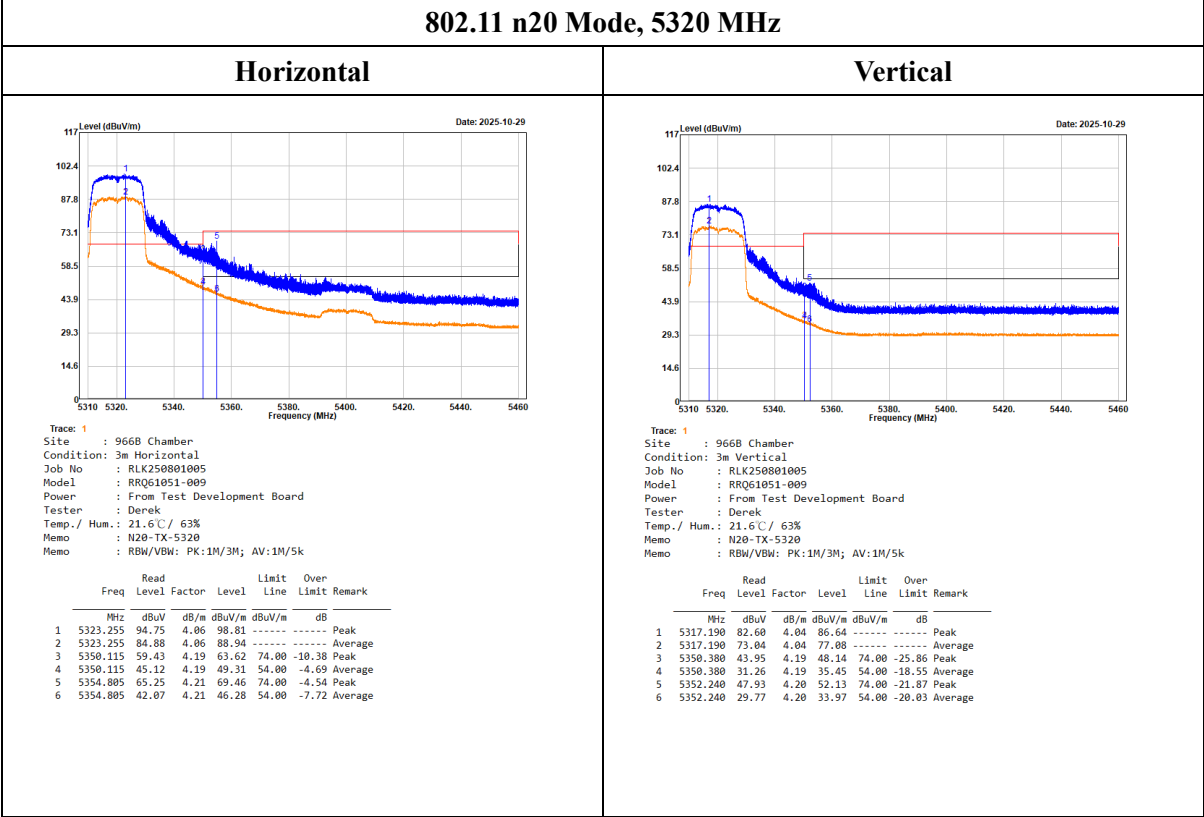
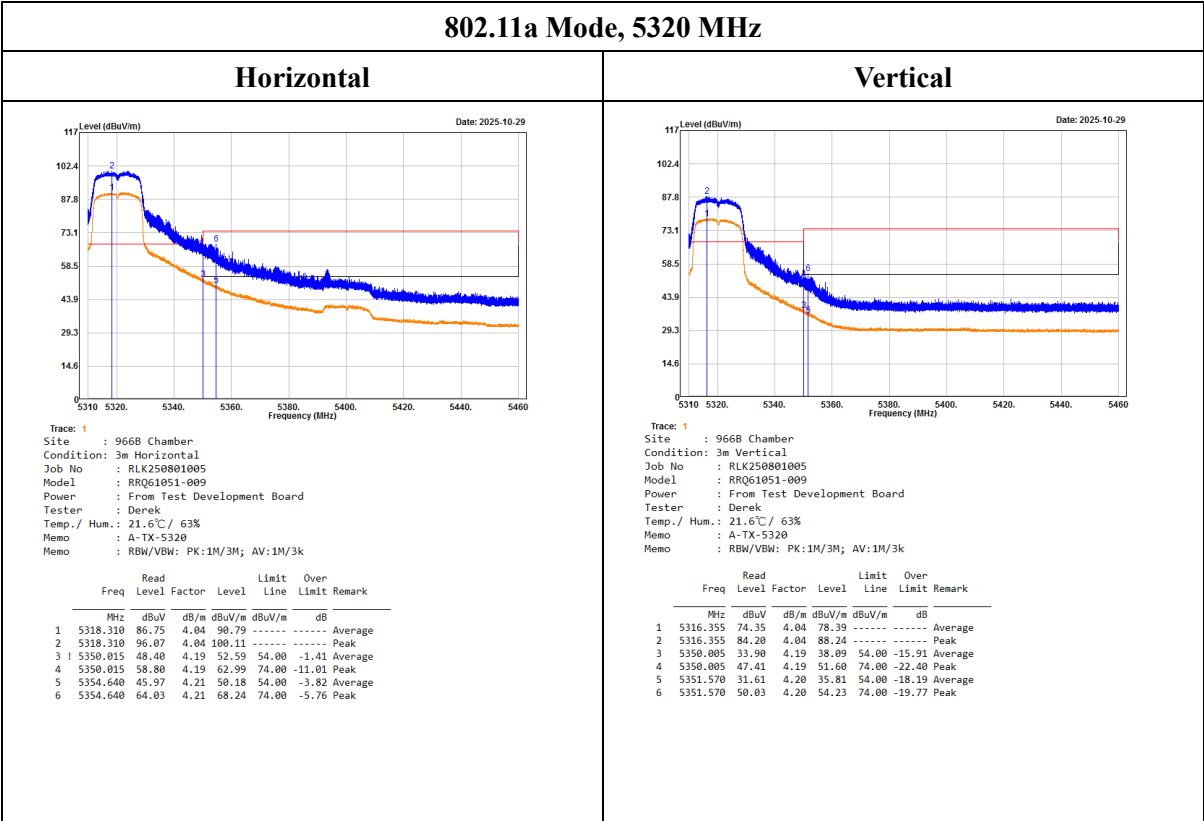
Vertical



Trace: 1
Site : 966B Chamber
Condition: 3m Vertical
Job No : RLK250801005
Model : RRQ61051-009
Power : From Test Development Board
Tester : Derek
Temp./ Hum.: 18.4°C / 47%
Memo : AX20-TX-5180
Memo : RBW/VBW: PK:1M/3M; AV:1M/3k

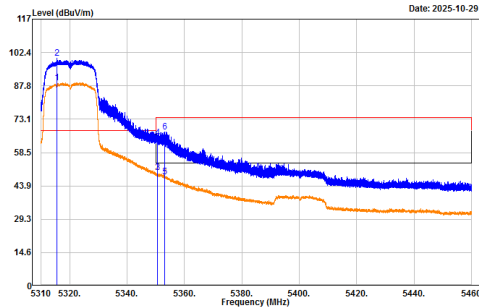
	Read	Limit	Over	
Freq	Level	Factor	Level	Line
MHz	dBuV	dB/m	dBuV/m	dB
1 5148.980	31.10	3.78	34.88	54.00
2 5148.980	47.17	3.78	50.95	74.00
3 5149.820	31.70	3.78	35.48	54.00
4 5149.820	45.91	3.78	49.69	74.00
5 5182.765	69.21	3.80	73.01	-----
6 5182.765	82.46	3.80	86.26	-----

UNII-2A Band II 5250~5350 MHz



802.11 ac20 Mode, 5320 MHz

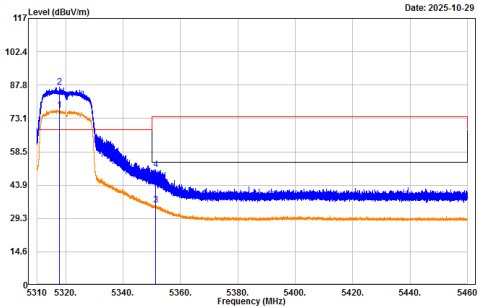
Horizontal



Trace: 1
Site : 966B Chamber
Condition: 3m Horizontal
Job No : RLK250801005
Model : RRQ61051-009
Power : From Test Development Board
Tester : Derek
Temp./ Hum.: 21.6°C / 63%
Memo : AC20-TX-5320
Memo : 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 5315.565	85.10	4.03	89.13	-----	Average
2 5315.565	95.88	4.03	99.91	-----	Peak
3 5350.515	45.48	4.19	49.67	54.00	-4.33 Average
4 5350.515	60.77	4.19	64.96	74.00	-9.04 Peak
5 5353.210	43.83	4.20	48.03	54.00	-5.97 Average
6 5353.210	63.45	4.20	67.65	74.00	-6.35 Peak

Vertical

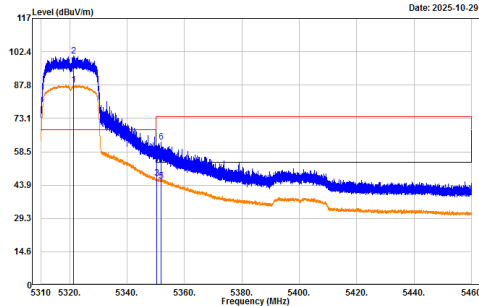


Trace: 1
Site : 966B Chamber
Condition: 3m Vertical
Job No : RLK250801005
Model : RRQ61051-009
Power : From Test Development Board
Tester : Derek
Temp./ Hum.: 21.6°C / 63%
Memo : AC20-TX-5320
Memo : RBW/VBW: PK:1M/3M; AV:1M/3k

	Read		Limit	Over	
Freq	Level	Factor	Level	Line	Limit Remark
MHz	dBuV		dB/m	dBuV/m	dB
1 5317.925	72.84	4.04	76.88	-----	Average
2 5317.925	82.71	4.04	86.75	-----	Peak
3 5351.350	30.91	4.20	35.11	54.00	-18.89 Average
4 5351.350	46.69	4.20	50.89	74.00	-23.11 Peak

802.11 ax20 Mode, 5320 MHz

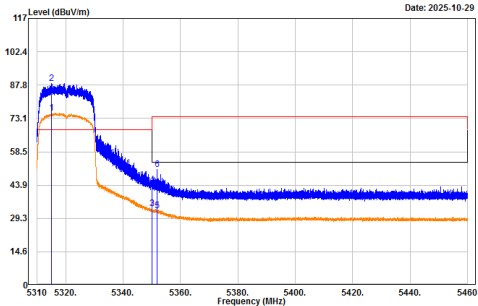
Horizontal



Trace: 1
Site : 966B Chamber
Condition: 3m Horizontal
Job No : RLK250801005
Model : RRQ61051-009
Power : From Test Development Board
Tester : Derek
Temp./ Hum.: 21.6°C / 63%
Memo : AX20-TX-5320
Memo : 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 5321.295	83.83	4.06	87.89	-----	Average
2 5321.295	96.42	4.06	100.48	-----	Peak
3 5350.415	42.69	4.19	46.88	54.00	-7.12 Average
4 5350.415	50.23	4.19	54.42	74.00	-19.58 Peak
5 5351.765	41.36	4.20	45.56	54.00	-8.44 Average
6 5351.765	58.66	4.20	62.86	74.00	-11.14 Peak

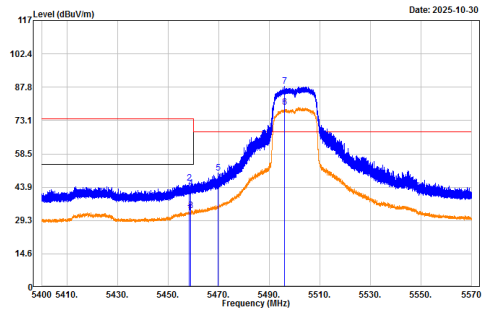
Vertical



Trace: 1
Site : 966B Chamber
Condition: 3m Vertical
Job No : RLK250801005
Model : RRQ61051-009
Power : From Test Development Board
Tester : Derek
Temp./ Hum.: 21.6°C / 63%
Memo : AX20-TX-5320
Memo : 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 5315.045	71.53	4.03	75.56	-----	Average
2 5315.045	84.44	4.03	88.47	-----	Peak
3 5350.050	29.42	4.19	33.61	54.00	-20.39 Average
4 5350.050	40.01	4.19	44.20	74.00	-29.80 Peak
5 5351.930	28.55	4.20	32.75	54.00	-21.25 Average
6 5351.930	46.50	4.20	50.70	74.00	-23.30 Peak

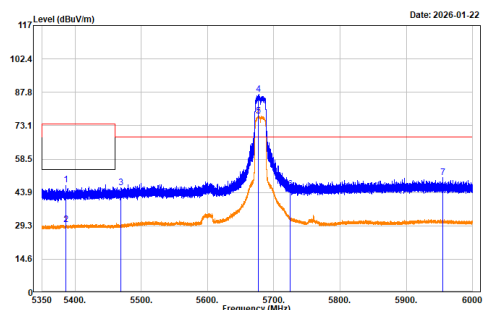
(802.11a Mode, 5500 MHz)



```
Trace: 1
Site : 966B Chamber
Condition: 3m Vertical
Job No : RLK250801005
Model : RRQ61051-009
Power : From Test Development Board
Tester : Derek
Temp./ Hum.: 20.0°C / 47%
Memo : A-TX-5500
Memo : RBW/VBW: PK:1M/3M; AV:1M/3k
```

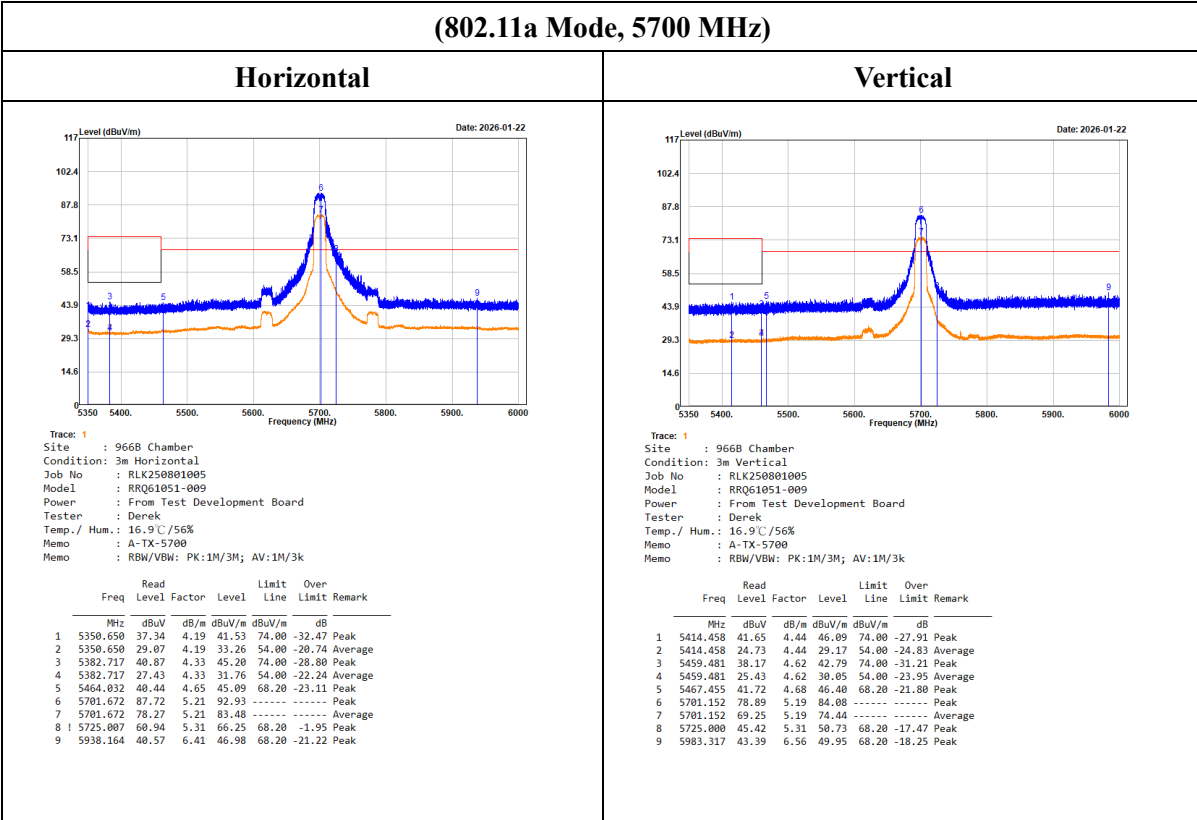
	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dBm	dBuV/m	dBuV/m	dB	
1	5458.395	27.95	4.61	32.56	54.00	-21.44	Average
2	5458.395	41.12	4.61	45.73	74.00	-28.27	Peak
3	5459.007	29.08	4.61	33.69	54.00	-20.31	Average
4	5459.007	38.95	4.61	43.56	74.00	-30.44	Peak
5	5469.796	45.28	4.70	49.98	68.20	-18.22	Peak
6	5469.050	73.92	4.93	78.85	-----	-----	Average
7	5496.050	83.09	4.93	88.02	-----	-----	Peak

Horizontal



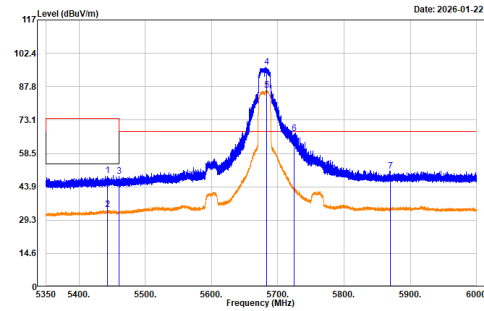
```
Trace: 1
Site      : 966B Chamber
Condition: 3m Vertical
Job No    : RLK250801005
Model     : RRQ61051-009
Power     : From Test Development Board
Tester    : Derek
Temp./ Hum.: 16.9°C/56%
Memo      : A-IX-5680
Memo      : RBW/VBW: PK:1M/3M; AV:1M/3k
```

	Read Freq	Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	5385.880	43.05	4.34	47.39	74.00	-26.61	Peak
2	5385.880	25.60	4.34	29.94	54.00	-24.06	Average
3	5468.755	41.21	4.69	45.90	68.20	-22.30	Peak
4	5676.666	81.83	5.13	86.96	-----	-----	Peak
5	5676.666	72.36	5.13	77.49	-----	-----	Average
6	5725.000	40.17	5.31	45.48	68.20	-22.72	Peak
7	5955.302	43.93	5.48	50.41	68.20	-17.79	Peak



(802.11 n20 Mode, 5680 MHz)

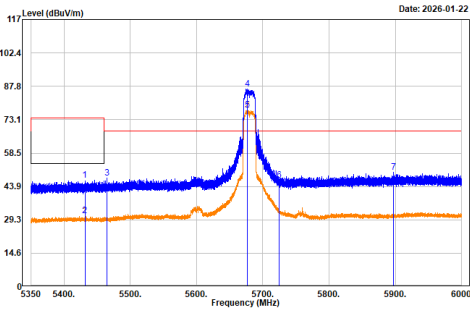
Horizontal



Trace: 1
Site : 966B Chamber
Condition: 3m Horizontal
Job No : RLK250801005
Model : RRQ61051-009
Power : From Test Development Board
Tester : Derek
Temp./ Hum.: 16.9°C/56%
Memo : N20-TX-5680
Memo : 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	5442.950	44.23	4.52	48.75	74.00 -25.25 Peak
2	5442.950	29.52	4.52	34.04	54.00 -19.96 Average
3	5460.608	43.81	4.62	48.43	68.20 -19.77 Peak
4	5683.298	91.14	5.14	96.28	----- Peak
5	5683.298	81.22	5.15	86.37	----- Average
6	5725.000	61.82	5.31	67.13	68.20 -1.07 Peak
7	5869.848	44.83	6.04	50.87	68.20 -17.33 Peak

Vertical

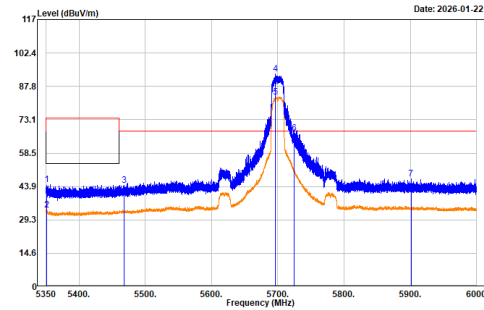


Trace: 1
Site : 966B Chamber
Condition: 3m Vertical
Job No : RLK250801005
Model : RRQ61051-009
Power : From Test Development Board
Tester : Derek
Temp./ Hum.: 16.9°C/56%
Memo : N20-TX-5680
Memo : RBW/VBW: PK:1M/3M; AV:1M/5k

		Read		Limit	Over	
	Freq	Level	Factor	Level	Line	Limit Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1	5431.510	42.27	4.48	46.75	74.00	-27.25 Peak
2	5431.510	26.44	4.48	30.92	54.00	-23.08 Average
3	5464.400	42.90	4.66	47.56	68.20	-20.64 Peak
4	5676.885	81.59	5.13	86.72	-----	----- Peak
5	5676.885	72.21	5.13	77.34	-----	----- Average
6	5725.000	41.39	5.31	46.70	68.20	-21.50 Peak
7	5897.408	43.83	6.21	50.04	68.20	-18.16 Peak

(802.11 n20 Mode, 5700 MHz)

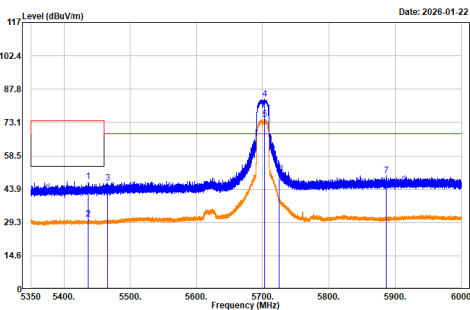
Horizontal



Trace: 1
Site : 966B Chamber
Condition: 3m Horizontal
Job No : RLK250801005
Model : RRQ61051-009
Power : From Test Development Board
Tester : Derek
Temp./ Hum.: 16.9°C/56%
Memo : N20-TX-5700
Memo : 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	5350.780	40.36	4.19	44.55	74.00	-29.45 Peak
2	5350.780	29.41	4.19	33.60	54.00	-20.40 Average
3	5467.845	39.84	4.68	44.52	68.20	-23.68 Peak
4	5695.995	88.05	5.18	93.23	-----	----- Peak
5	5695.995	77.95	5.18	83.13	-----	----- Average
6	5725.007	62.02	5.31	67.33	68.20	-0.87 Peak
7	5901.070	41.10	6.23	47.33	68.20	-20.87 Peak

Vertical

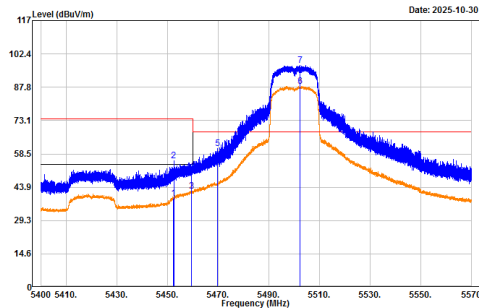


Trace: 1
Site : 966B Chamber
Condition: 3m Vertical
Job No : RLK250801005
Model : RRQ61051-009
Power : From Test Development Board
Tester : Derek
Temp./ Hum.: 16.9°C/56%
Memo : N20-TX-5700
Memo : RBW/VBW: PK:1M/3M; AV:1M/5k

	Freq	Read Level	Factor	Level	Line Limit	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	5436.710	42.70	4.50	47.20	74.00	-26.80	Peak
2	5436.710	26.20	4.50	30.70	54.00	-23.30	Average
3	5466.025	41.80	4.67	46.47	68.20	-21.73	Peak
4	5702.820	78.18	5.21	83.39	-----	-----	Peak
5	5702.820	69.25	5.21	74.46	-----	-----	Average
6	5725.000	44.91	5.31	50.22	68.20	-17.98	Peak
7	5885.860	43.67	6.14	49.81	68.20	-18.39	Peak

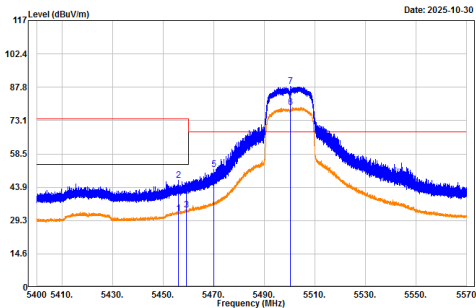
(802.11 ac20 Mode, 5500 MHz)

Horizontal



Trace: 1
Site : 966B Chamber
Condition: 3m Horizontal
Job No : RLK250801005
Model : RRQ61051-009
Power : From Test Development Board
Tester : Derek
Temp./ Hum.: 20.0°C / 47%
Memo : AC20-TX-5500
Memo : RBW/VBW: PK:1M/3M; AV:1M/3k

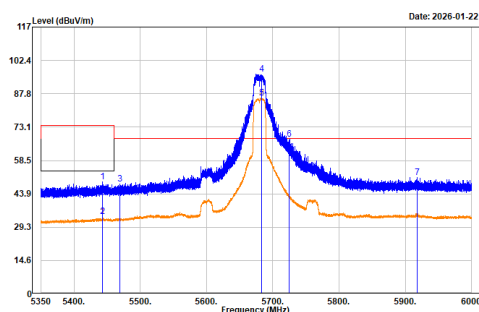
Vertical



Trace: 1
Site : 966B Chamber
Condition: 3m Vertical
Job No : RLK250801005
Model : RRQ61051-009
Power : From Test Development Board
Tester : Derek
Temp./ Hum.: 20.0°C / 47%
Memo : AC20-TX-5500
Memo : RBW/VBW: PK:1M/3M; AV:1M/3k

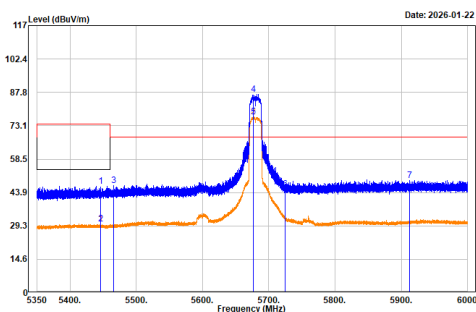
(802.11 ac20 Mode, 5680 MHz)

Horizontal



Trace: 1
Site : 966B Chamber
Condition: 3m Horizontal
Job No : RLK250801005
Model : RRQ61051-009
Power : From Test Development Board
Tester : Derek
Temp./ Hum.: 16.9°C / 56%
Memo : AC20-TX-5680
Memo : RBW/VBW: PK:1M/3M; AV:1M/3k

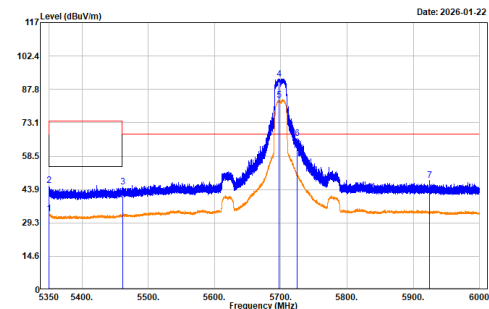
Vertical



Trace: 1
Site : 966B Chamber
Condition: 3m Vertical
Job No : RLK250801005
Model : RRQ61051-009
Power : From Test Development Board
Tester : Derek
Temp./ Hum.: 16.9°C / 56%
Memo : AC20-TX-5680
Memo : RBW/VBW: PK:1M/3M; AV:1M/3k

(802.11 ac20 Mode, 5700 MHz)

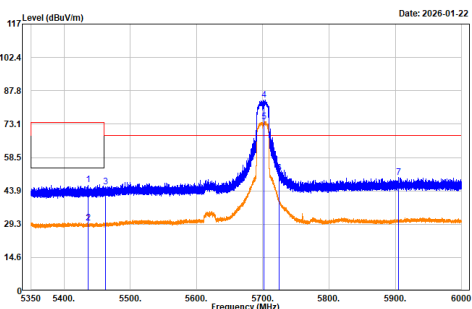
Horizontal



Trace: 1
Site : 966B Chamber
Condition: 3m Horizontal
Job No : RLK250801005
Model : RRQ61051-009
Power : From Test Development Board
Tester : Derek
Temp./ Hum.: 16.9°C / 56%
Memo : AC20-TX-5700
Memo : RBW/VBW: PK:1M/3M; AV:1M/3k

	Read	Limit	Over	
Freq	Level	Factor	Level	Line
MHz	dBuV	dB/m	dBuV/m	dBuV/m
1 5350.477	29.17	4.19	33.36	74.00
2 5350.477	41.50	4.19	45.69	74.00
3 5462.839	40.48	4.64	45.12	68.20
4 5697.577	87.15	5.19	92.34	-----
5 5697.577	78.04	5.19	83.23	-----
6 5725.800	61.11	5.31	66.42	68.20
7 5924.795	41.45	6.35	47.80	68.20

Vertical

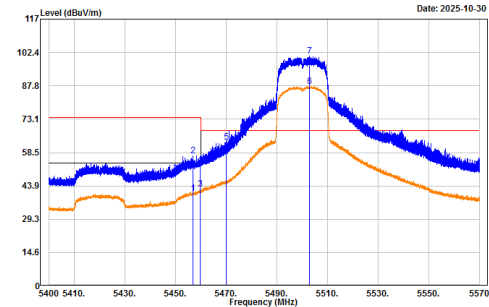


Trace: 1
Site : 966B Chamber
Condition: 3m Vertical
Job No : RLK250801005
Model : RRQ61051-009
Power : From Test Development Board
Tester : Derek
Temp./ Hum.: 16.9°C / 56%
Memo : AC20-TX-5700
Memo : RBW/VBW: PK:1M/3M; AV:1M/3k

	Read	Limit	Over	
Freq	Level	Factor	Level	Line
MHz	dBuV	dB/m	dBuV/m	dBuV/m
1 5436.104	42.00	4.50	46.50	74.00
2 5436.104	25.43	4.50	29.93	54.00
3 5462.385	41.00	4.64	45.64	68.20
4 5701.715	78.39	5.21	83.60	-----
5 5701.715	69.08	5.21	74.29	-----
6 5725.800	46.35	5.31	51.66	68.20
7 5904.688	43.46	6.25	49.71	68.20

(802.11 ax20 Mode, 5500 MHz)

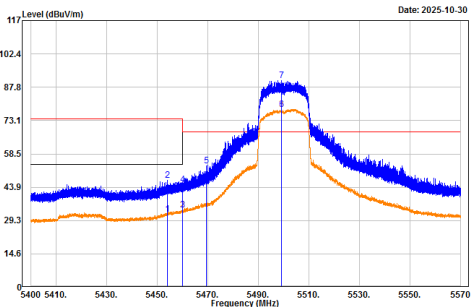
Horizontal



Trace: 1
Site : 966B Chamber
Condition: 3m Horizontal
Job No : RLK250801005
Model : RRQ61051-009
Power : From Test Development Board
Tester : Derek
Temp./ Hum.: 20.0°C / 47%
Memo : AX20-TX-5500
Memo : RBW/VBW: PK:1M/3M; AV:1M/3k

	Read	Limit	Over	
Freq	Level	Factor	Level	Line
MHz	dBuV	dB/m	dBuV/m	dBuV/m
1 5456.814	36.00	4.59	40.59	54.00
2 5456.814	52.48	4.59	57.07	74.00
3 5459.840	37.85	4.62	42.47	54.00
4 5459.840	48.76	4.62	53.38	74.00
5 5469.910	58.35	4.70	63.05	68.20
6 5502.748	82.54	4.96	87.50	-----
7 5502.748	95.95	4.96	100.91	-----

Vertical

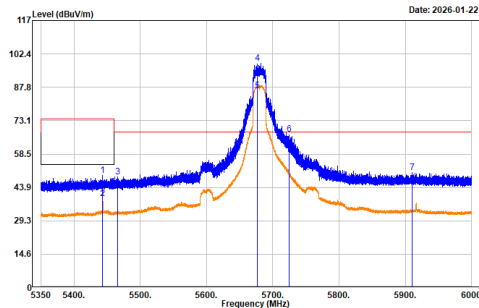


Trace: 1
Site : 966B Chamber
Condition: 3m Vertical
Job No : RLK250801005
Model : RRQ61051-009
Power : From Test Development Board
Tester : Derek
Temp./ Hum.: 20.0°C / 47%
Memo : AX20-TX-5500
Memo : RBW/VBW: PK:1M/3M; AV:1M/3k

	Read	Limit	Over	
Freq	Level	Factor	Level	Line
MHz	dBuV	dB/m	dBuV/m	dBuV/m
1 5453.958	27.34	4.57	31.91	54.00
2 5453.958	42.24	4.57	46.81	74.00
3 5459.948	29.24	4.62	33.86	54.00
4 5459.948	40.49	4.62	45.11	74.00
5 5469.913	48.64	4.70	53.34	68.20
6 5499.167	73.20	4.95	78.15	-----
7 5499.167	85.75	4.95	90.70	-----

(802.11 ax20 Mode, 5680 MHz)

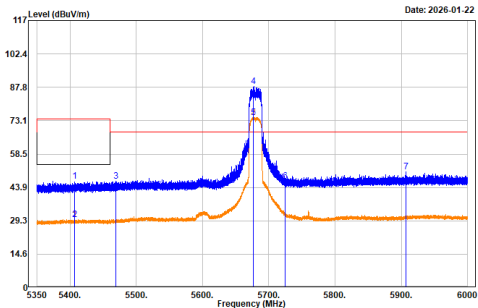
Horizontal



Trace: 1
Site : 966B Chamber
Condition: 3m Horizontal
Job No : RLK250801005
Model : RRQ61051-009
Power : From Test Development Board
Tester : Derek
Temp./ Hum.: 16.9°C/56%
Memo : AX20-TX-5680
Memo : RBW/VBW: PK:1M/3M; AV:1M/3k

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV		dB/m	dBuV/m	dB	
1	5443.253	44.59	4.52	49.11	74.00	-24.89	Peak
2	5443.253	34.56	4.52	39.08	54.00	-14.92	Average
3	5466.350	43.77	4.67	48.44	68.20	-19.76	Peak
4	5676.495	93.08	5.14	98.22	-----	-----	Peak
5	5676.495	81.13	5.13	86.26	-----	-----	Average
6	5725.000	61.78	5.31	67.09	68.20	-1.11	Peak
7	5910.170	44.27	6.28	50.55	68.20	-17.65	Peak

Vertical

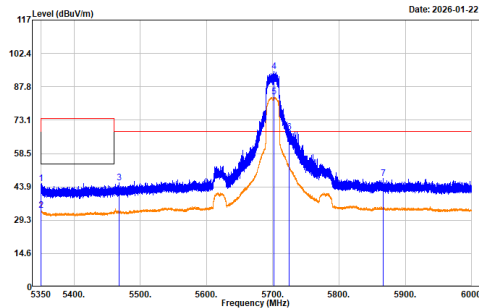


Trace: 1
Site : 966B Chamber
Condition: 3m Vertical
Job No : RLK250801005
Model : RRQ61051-009
Power : From Test Development Board
Tester : Derek
Temp./ Hum.: 16.9°C/56%
Memo : AX20-TX-5680
Memo : RBW/VBW: PK:1M/3M; AV:1M/3k

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV		dB/m	dBuV/m	dB	
1	5406.485	42.21	4.42	46.63	74.00	-27.37	Peak
2	5406.485	25.47	4.42	29.89	54.00	-24.11	Average
3	5469.470	41.86	4.70	46.56	68.20	-21.64	Peak
4	5676.430	83.11	5.14	88.25	-----	-----	Peak
5	5676.430	69.50	5.13	74.63	-----	-----	Average
6	5725.000	41.28	5.31	46.59	68.20	-21.61	Peak
7	5906.682	44.31	6.26	50.57	68.20	-17.63	Peak

(802.11 ax20 Mode, 5700 MHz)

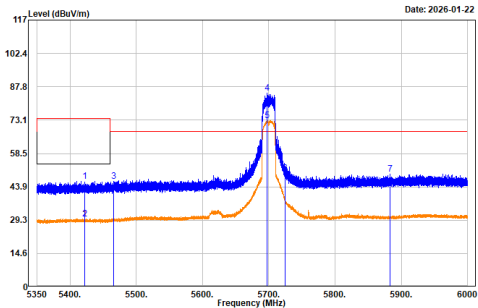
Horizontal



Trace: 1
Site : 966B Chamber
Condition: 3m Horizontal
Job No : RLK250801005
Model : RRQ61051-009
Power : From Test Development Board
Tester : Derek
Temp./ Hum.: 16.9°C/56%
Memo : AX20-TX-5700
Memo : RBW/VBW: PK:1M/3M; AV:1M/3k

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV		dB/m	dBuV/m	dB	
1	5350.325	41.25	4.19	45.44	74.00	-28.56	Peak
2	5350.325	29.31	4.19	33.50	54.00	-20.50	Average
3	5468.473	40.84	4.69	45.53	68.20	-22.67	Peak
4	5702.126	89.16	5.21	94.37	-----	-----	Peak
5	5702.126	78.09	5.21	83.30	-----	-----	Average
6	5725.007	62.63	5.31	67.94	68.20	-0.26	Peak
7	5866.729	41.43	6.01	47.44	68.20	-20.76	Peak

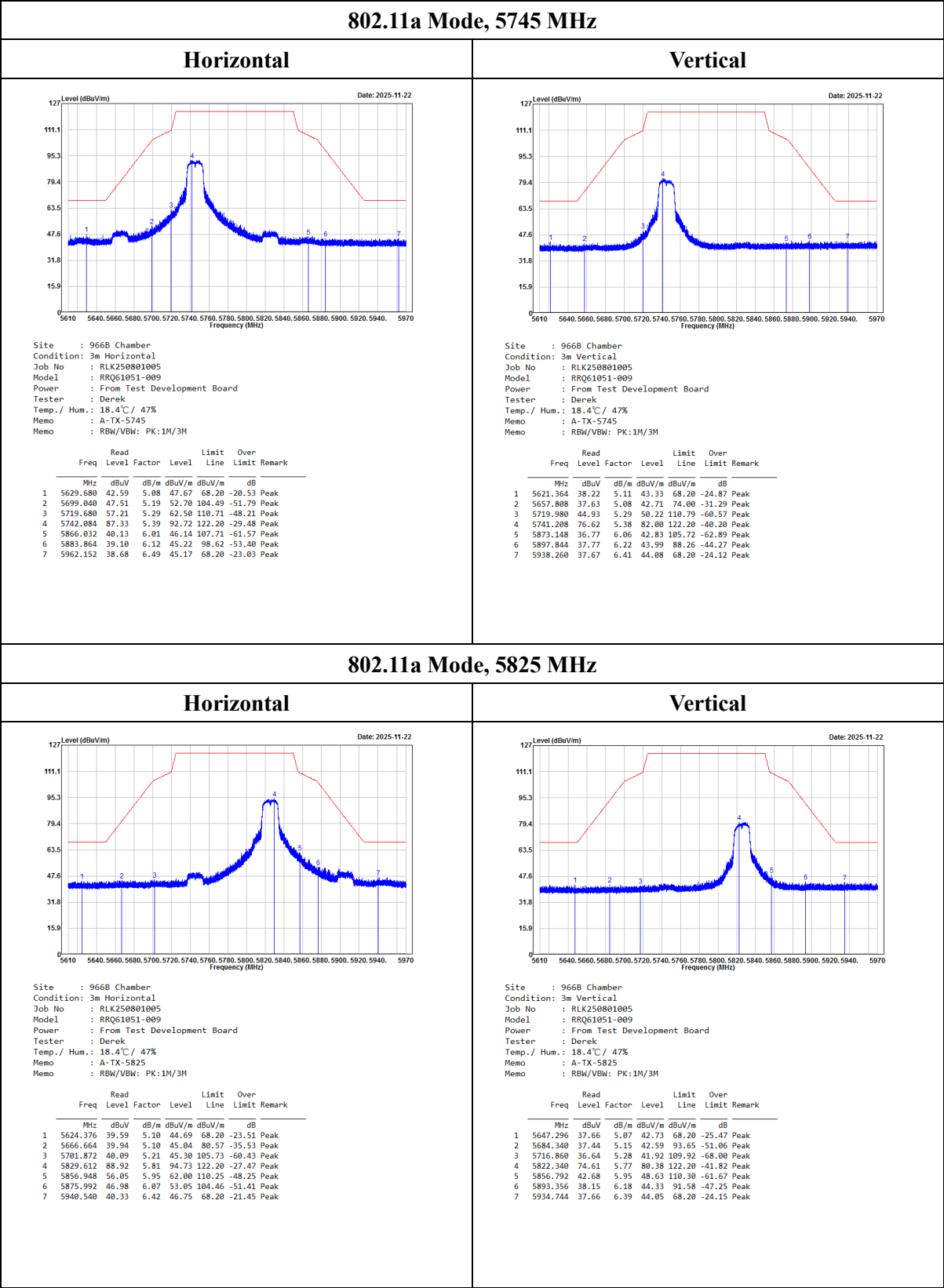
Vertical



Trace: 1
Site : 966B Chamber
Condition: 3m Vertical
Job No : RLK250801005
Model : RRQ61051-009
Power : From Test Development Board
Tester : Derek
Temp./ Hum.: 16.9°C/56%
Memo : AX20-TX-5700
Memo : RBW/VBW: PK:1M/3M; AV:1M/3k

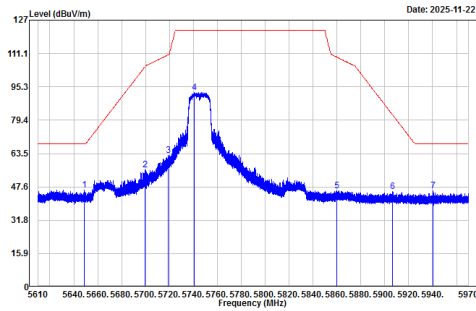
	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV		dB/m	dBuV/m	dB	
1	5422.453	41.86	4.46	46.32	74.00	-27.68	Peak
2	5422.453	25.45	4.46	29.91	54.00	-24.09	Average
3	5465.483	41.48	4.66	46.14	68.20	-22.06	Peak
4	5697.598	79.67	5.19	84.86	-----	-----	Peak
5	5697.598	67.69	5.19	72.88	-----	-----	Average
6	5725.000	44.51	5.31	49.82	68.20	-18.38	Peak
7	5882.567	43.24	6.12	49.36	68.20	-18.84	Peak

UNII-3 Band IV 5725~5850 MHz



802.11 n20 Mode, 5745 MHz

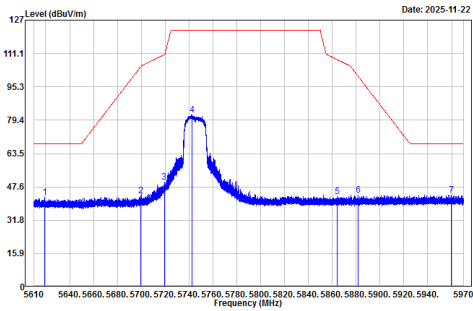
Horizontal



Site : 966B Chamber
Condition: 3m Horizontal
Job No : RLK250801005
Model : RRQ61051-009
Power : From Test Development Board
Tester : Derek
Temp./ Hum.: 18.4℃ / 47%
Memo : N20-TX-5745
Memo : RBW/VBW: PK:1M/3M

	Read		Limit	Over	
Freq	Level	Factor	Level	Line	Limit Remark
MHz	dBuV		dBm	dBuV/m	dB
1 5648.616	40.95	5.06	46.01	68.20	-22.19 Peak
2 5699.352	50.47	5.19	55.66	104.72	-49.06 Peak
3 5718.816	57.35	5.29	62.64	110.47	-47.83 Peak
4 5740.920	87.33	5.38	92.71	122.20	-29.49 Peak
5 5859.888	39.87	5.97	45.84	109.43	-63.59 Peak
6 5906.184	39.03	6.25	45.28	82.09	-36.81 Peak
7 5940.300	39.41	6.42	45.83	68.20	-22.37 Peak

Vertical

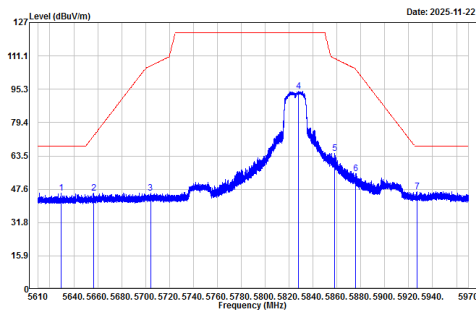


Site : 966B Chamber
Condition: 3m Vertical
Job No : RLK250801005
Model : RRQ61051-009
Power : From Test Development Board
Tester : Derek
Temp./ Hum.: 18.4℃ / 47%
Memo : N20-TX-5745
Memo : RBW/VBW: PK:1M/3M

	Read		Limit	Over	
Freq	Level	Factor	Level	Line	Limit Remark
MHz	dBuV		dBm	dBuV/m	dB
1 5619.276	37.69	5.11	42.80	68.20	-25.40 Peak
2 5699.508	38.25	5.19	43.44	104.84	-61.40 Peak
3 5719.248	44.71	5.29	50.00	110.59	-60.59 Peak
4 5742.384	76.55	5.39	81.94	122.20	-40.26 Peak
5 5864.004	37.06	5.99	43.05	108.28	-65.23 Peak
6 5881.668	37.56	6.10	43.66	100.25	-56.59 Peak
7 5959.788	37.37	6.49	43.86	68.20	-24.34 Peak

802.11 n20 Mode, 5825 MHz

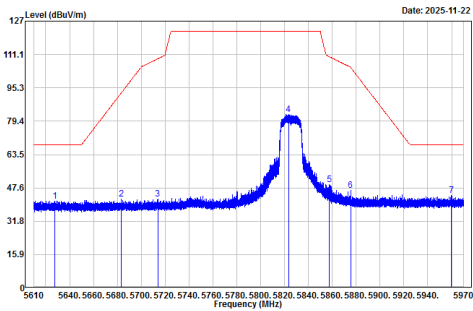
Horizontal



Site : 966B Chamber
Condition: 3m Horizontal
Job No : RLK250801005
Model : RRQ61051-009
Power : From Test Development Board
Tester : Derek
Temp./ Hum.: 18.4℃ / 47%
Memo : N20-TX-5825
Memo : RBW/VBW: PK:1M/3M

	Read		Limit	Over	
Freq	Level	Factor	Level	Line	Limit Remark
MHz	dBuV		dBm	dBuV/m	dB
1 5629.668	40.70	5.08	45.78	68.20	-22.42 Peak
2 5656.764	40.81	5.07	45.88	73.22	-27.34 Peak
3 5704.116	40.58	5.22	45.80	106.35	-60.55 Peak
4 5827.980	88.46	5.80	94.26	122.20	-27.94 Peak
5 5857.968	58.72	5.96	64.68	109.97	-45.29 Peak
6 5875.884	49.15	6.07	55.22	104.54	-49.32 Peak
7 5926.932	40.27	6.36	46.63	68.20	-21.57 Peak

Vertical

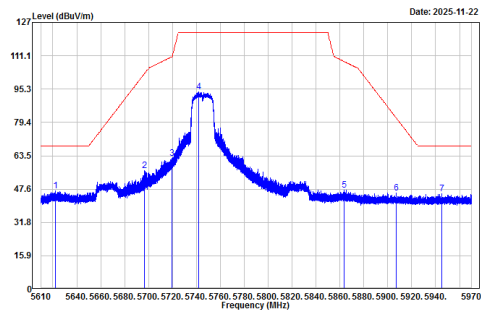


Site : 966B Chamber
Condition: 3m Vertical
Job No : RLK250801005
Model : RRQ61051-009
Power : From Test Development Board
Tester : Derek
Temp./ Hum.: 18.4℃ / 47%
Memo : N20-TX-5825
Memo : RBW/VBW: PK:1M/3M

	Read		Limit	Over	
Freq	Level	Factor	Level	Line	Limit Remark
MHz	dBuV		dBm	dBuV/m	dB
1 5627.460	36.37	5.09	41.46	68.20	-26.74 Peak
2 5683.212	37.03	5.15	42.18	92.81	-50.63 Peak
3 5713.800	36.93	5.26	42.19	109.07	-66.88 Peak
4 5823.276	76.77	5.77	82.54	122.20	-39.66 Peak
5 5857.380	43.14	5.95	49.09	110.13	-61.04 Peak
6 5875.296	40.28	6.06	46.34	104.98	-58.64 Peak
7 5959.428	37.42	6.49	43.91	68.20	-24.29 Peak

802.11 ac20 Mode, 5745 MHz

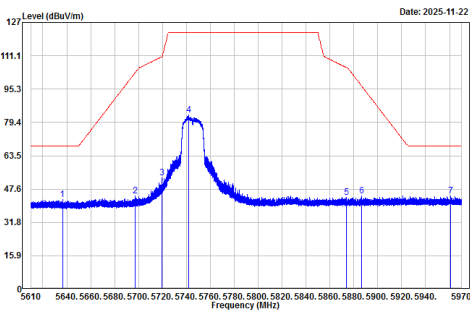
Horizontal



Site : 966B Chamber
Condition: 3m Horizontal
Job No : RLK250801005
Model : RRQ61051-009
Power : From Test Development Board
Tester : Derek
Temp./ Hum.: 18.4°C / 47%
Memo : AC20-TX-5745
Memo : RBW/VBW: PK:1M/3M

	Freq	Read Level	Factor	Level	Limit	Over	Remark
	MHz	dBuV		dB/m	dBuV/m	dB	
1	5622.396	41.67	5.11	46.78	68.20	-21.42	Peak
2	5696.844	51.34	5.18	56.52	102.87	-46.35	Peak
3	5719.680	57.16	5.29	62.45	110.71	-48.26	Peak
4	5741.748	88.44	5.39	93.83	122.20	-28.37	Peak
5	5863.344	41.22	5.99	47.21	108.46	-61.25	Peak
6	5907.216	39.65	6.26	45.91	81.32	-35.41	Peak
7	5945.328	38.93	6.44	45.37	68.20	-22.83	Peak

Vertical

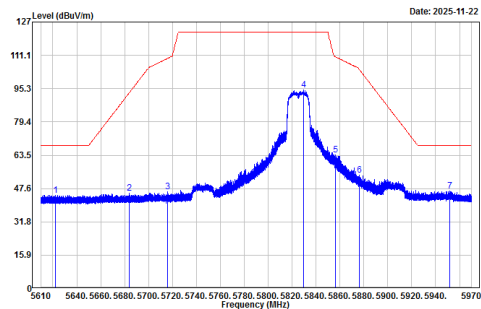


Site : 966B Chamber
Condition: 3m Vertical
Job No : RLK250801005
Model : RRQ61051-009
Power : From Test Development Board
Tester : Derek
Temp./ Hum.: 18.4°C / 47%
Memo : AC20-TX-5745
Memo : RBW/VBW: PK:1M/3M

	Freq	Read Level	Factor	Level	Limit	Over	Remark
	MHz	dBuV		dB/m	dBuV/m	dB	
1	5636.388	37.45	5.08	42.53	68.20	-25.67	Peak
2	5697.432	39.29	5.18	44.47	103.31	-58.84	Peak
3	5719.704	47.55	5.29	52.84	110.72	-57.88	Peak
4	5742.060	77.44	5.39	82.83	122.20	-39.37	Peak
5	5873.880	37.61	6.06	43.67	105.51	-61.84	Peak
6	5886.624	38.29	6.14	44.43	96.57	-52.14	Peak
7	5960.832	38.00	6.49	44.49	68.20	-23.71	Peak

802.11 ac20 Mode, 5825 MHz

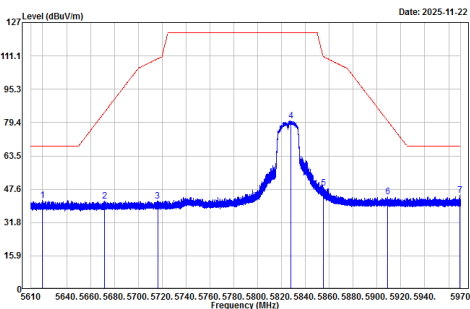
Horizontal



Site : 966B Chamber
Condition: 3m Horizontal
Job No : RLK250801005
Model : RRQ61051-009
Power : From Test Development Board
Tester : Derek
Temp./ Hum.: 18.4°C / 47%
Memo : AC20-TX-5825
Memo : RBW/VBW: PK:1M/3M

	Freq	Read Level	Factor	Level	Limit	Over	Remark
	MHz	dBuV		dB/m	dBuV/m	dB	
1	5621.964	39.43	5.11	44.54	68.20	-23.66	Peak
2	5683.872	40.24	5.15	45.39	93.30	-47.91	Peak
3	5715.900	40.69	5.27	45.96	109.65	-63.69	Peak
4	5829.372	88.71	5.81	94.52	122.20	-27.68	Peak
5	5856.492	57.67	5.95	63.62	110.38	-46.76	Peak
6	5876.136	48.00	6.07	54.07	104.36	-50.29	Peak
7	5951.652	39.95	6.47	46.42	68.20	-21.78	Peak

Vertical

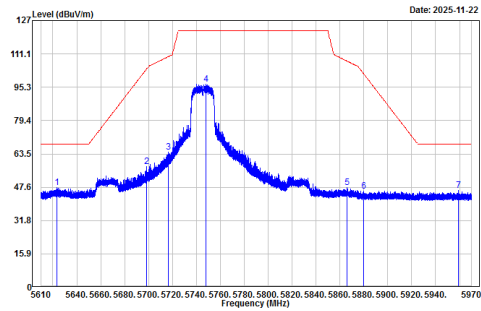


Site : 966B Chamber
Condition: 3m Vertical
Job No : RLK250801005
Model : RRQ61051-009
Power : From Test Development Board
Tester : Derek
Temp./ Hum.: 18.4°C / 47%
Memo : AC20-TX-5825
Memo : RBW/VBW: PK:1M/3M

	Freq	Read Level	Factor	Level	Limit	Over	Remark
	MHz	dBuV		dB/m	dBuV/m	dB	
1	5619.540	37.27	5.11	42.38	68.20	-25.82	Peak
2	5672.028	36.90	5.11	42.01	84.54	-42.53	Peak
3	5716.212	36.76	5.27	42.03	109.74	-67.71	Peak
4	5828.064	74.50	5.80	80.30	122.20	-41.90	Peak
5	5855.184	42.36	5.94	48.30	110.75	-62.45	Peak
6	5909.004	37.94	6.27	44.21	80.00	-35.79	Peak
7	5969.124	38.10	6.52	44.62	68.20	-23.58	Peak

802.11 ax20 Mode, 5745 MHz

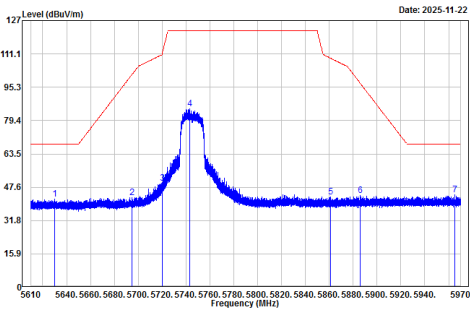
Horizontal



Site : 966B Chamber
Condition: 3m Horizontal
Job No : RLK250801005
Model : RRQ61051-009
Power : From Test Development Board
Tester : Derek
Temp./ Hum.: 18.4°C/ 47%
Memo : AX20-TX-5745
Memo : RBW/VBW: PK:1M/3M

	Freq	Read		Level	Limit		Over	Remark
		Level	Factor		Line	Line		
	MHz	dBuV		dB/m	dBuV/m	dBuV/m	dB	
1	5623.656	42.38	5.10	47.48	68.20	-20.72	Peak	
2	5698.476	52.22	5.19	57.41	104.08	-46.67	Peak	
3	5716.620	59.24	5.28	64.52	109.86	-45.34	Peak	
4	5747.772	91.31	5.42	96.73	122.20	-25.47	Peak	
5	5865.960	41.36	6.01	47.37	107.73	-60.36	Peak	
6	5879.880	39.71	6.09	45.80	101.58	-55.78	Peak	
7	5959.308	39.57	6.49	46.06	68.20	-22.14	Peak	

Vertical

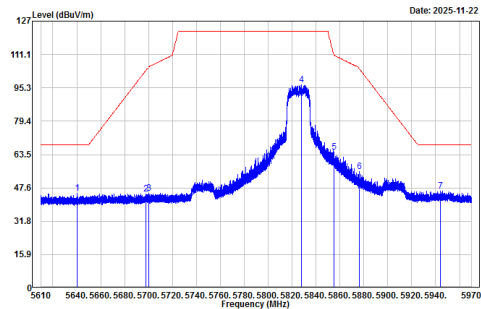


Site : 966B Chamber
Condition: 3m Vertical
Job No : RLK250801005
Model : RRQ61051-009
Power : From Test Development Board
Tester : Derek
Temp./ Hum.: 18.4°C/ 47%
Memo : AX20-TX-5745
Memo : RBW/VBW: PK:1M/3M

	Freq	Read		Level	Limit		Over	Remark
		Level	Factor		Line	Line		
	MHz	dBuV		dB/m	dBuV/m	dBuV/m	dB	
1	5629.932	36.87	5.08	41.95	68.20	-26.25	Peak	
2	5694.828	37.48	5.18	42.66	101.39	-58.73	Peak	
3	5720.004	44.30	5.29	49.59	110.81	-61.22	Peak	
4	5742.924	79.51	5.39	84.90	122.20	-37.30	Peak	
5	5861.148	36.91	5.98	42.89	109.08	-66.19	Peak	
6	5885.952	37.53	6.14	43.67	97.07	-53.40	Peak	
7	5964.984	37.41	6.50	43.91	68.20	-24.29	Peak	

802.11 ax20 Mode, 5825 MHz

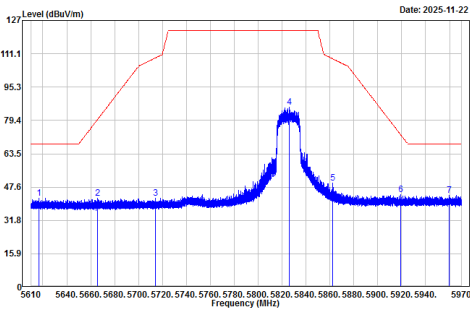
Horizontal



Site : 966B Chamber
Condition: 3m Horizontal
Job No : RLK250801005
Model : RRQ61051-009
Power : From Test Development Board
Tester : Derek
Temp./ Hum.: 18.4°C/ 47%
Memo : AX20-TX-5825
Memo : RBW/VBW: PK:1M/3M

	Freq	Read		Level	Limit		Over	Remark
		Level	Factor		Line	Line		
	MHz	dBuV		dB/m	dBuV/m	dBuV/m	dB	
1	5640.432	39.90	5.07	44.97	68.20	-23.23	Peak	
2	5697.864	39.70	5.19	44.89	103.63	-58.74	Peak	
3	5700.228	40.05	5.19	45.24	105.26	-60.02	Peak	
4	5828.064	90.93	5.80	96.73	122.20	-25.47	Peak	
5	5855.172	58.83	5.94	64.77	110.75	-45.98	Peak	
6	5875.956	49.40	6.07	55.47	104.49	-49.02	Peak	
7	5943.696	39.79	6.43	46.22	68.20	-21.98	Peak	

Vertical



Site : 966B Chamber
Condition: 3m Vertical
Job No : RLK250801005
Model : RRQ61051-009
Power : From Test Development Board
Tester : Derek
Temp./ Hum.: 18.4°C/ 47%
Memo : AX20-TX-5825
Memo : RBW/VBW: PK:1M/3M

	Freq	Read		Level	Limit		Over	Remark
		Level	Factor		Line	Line		
	MHz	dBuV		dB/m	dBuV/m	dBuV/m	dB	
1	5616.540	37.26	5.11	42.37	68.20	-25.83	Peak	
2	5666.004	37.07	5.10	42.17	80.08	-37.91	Peak	
3	5714.232	37.19	5.26	42.45	109.19	-66.74	Peak	
4	5825.796	79.77	5.78	85.55	122.20	-36.65	Peak	
5	5862.192	43.42	5.98	49.40	108.78	-59.38	Peak	
6	5919.156	37.58	6.32	43.90	72.51	-28.61	Peak	
7	5959.620	37.28	6.49	43.77	68.20	-24.43	Peak	

Level = Reading + Factor.

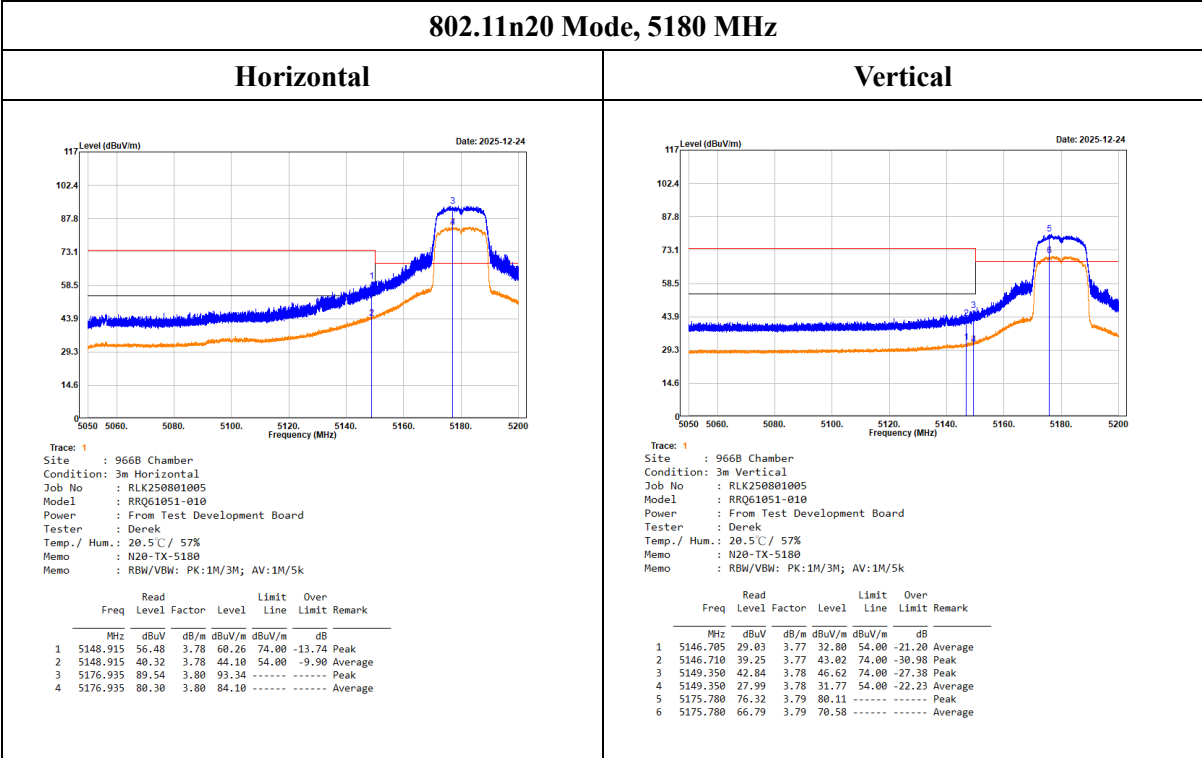
Over Limit = Level – Limit.

Factor = Antenna Factor + Cable Loss – Amplifier Gain.

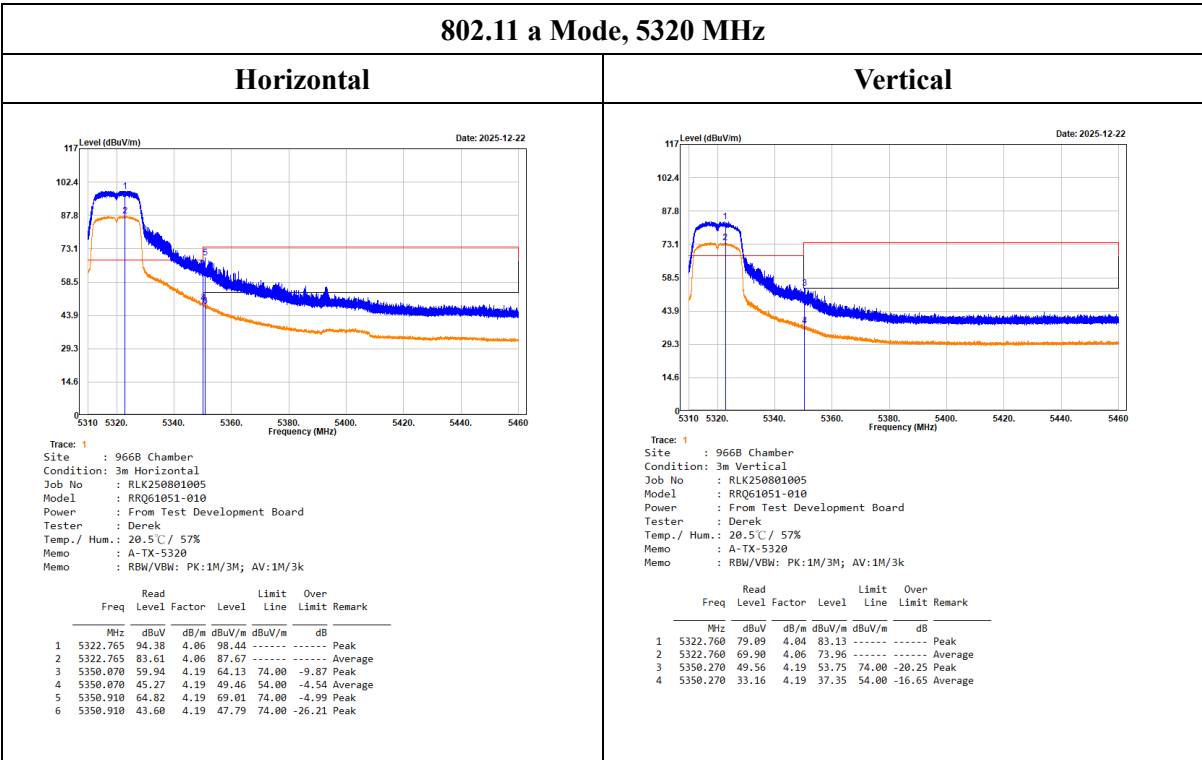
Test EUT Mode : RRQ61051-010

Band-Edge

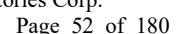
UNII-1 Band I 5150~5250 MHz



UNII-2A Band II 5250~5350 MHz



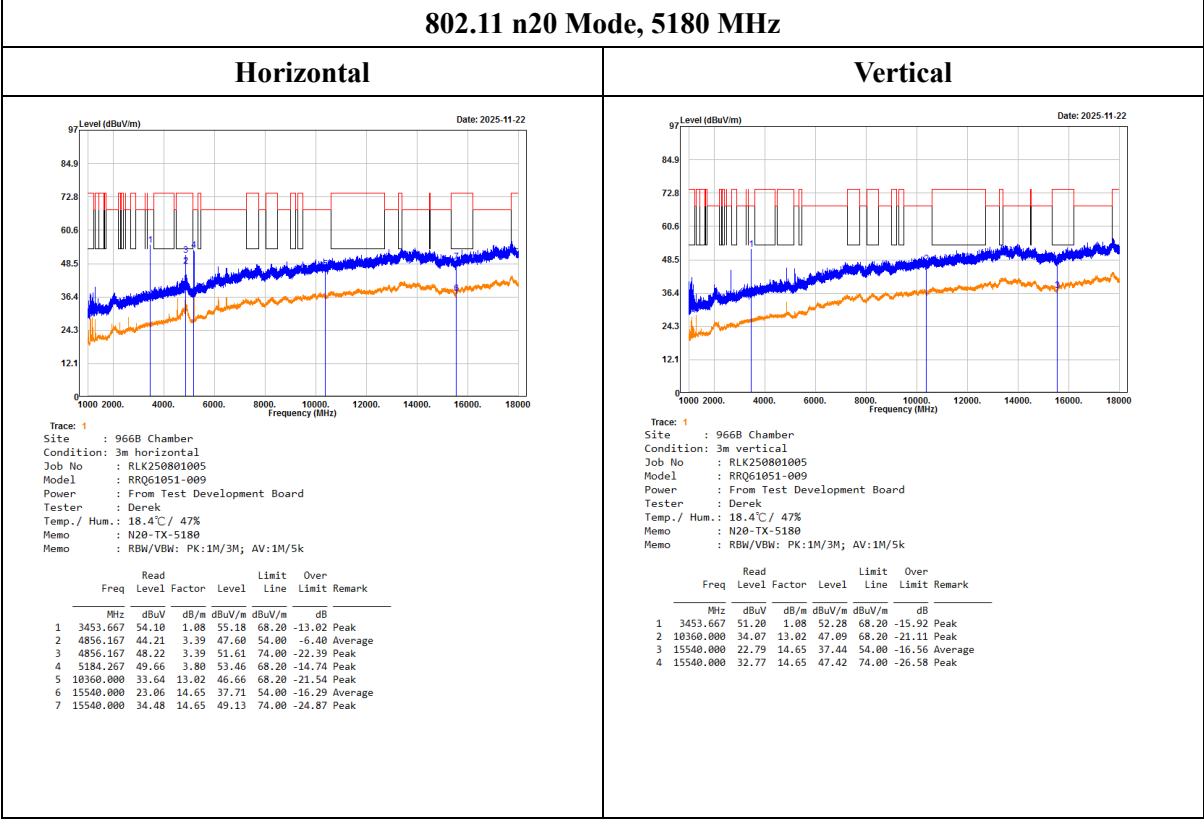
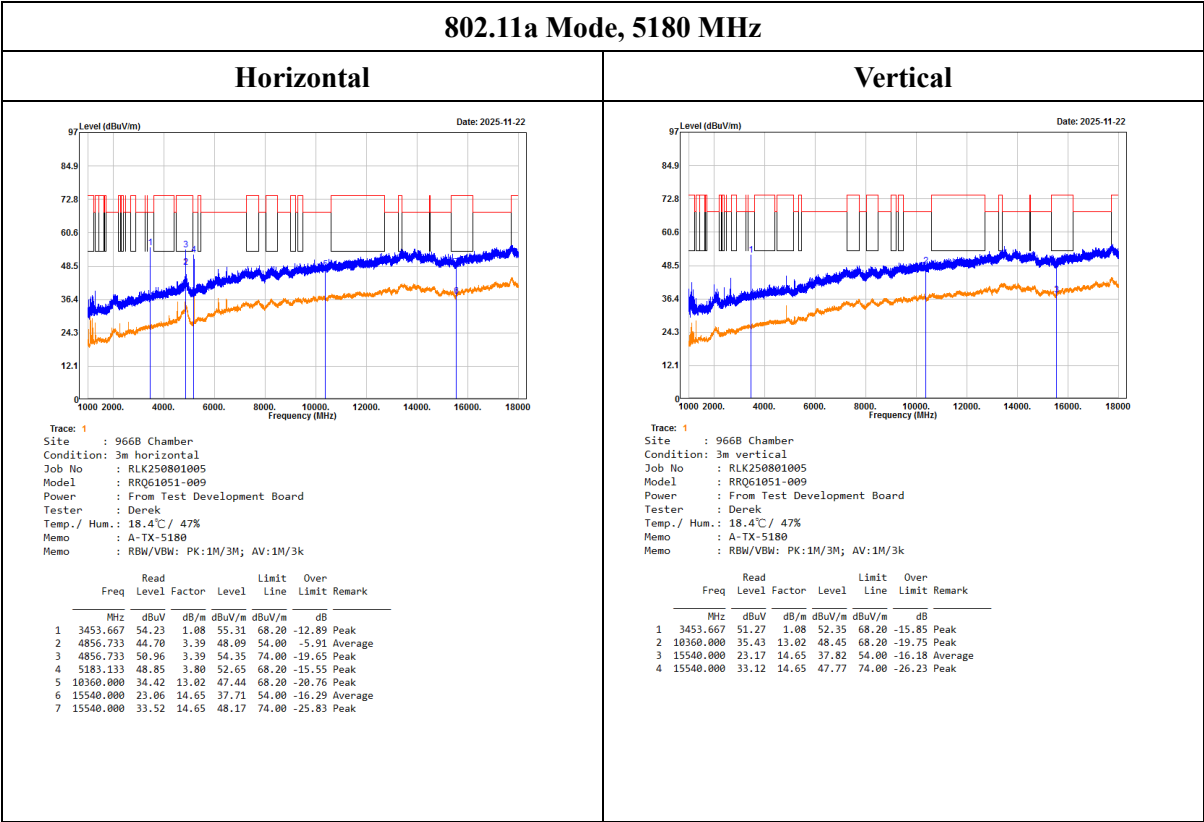
802.11n20 Mode, 5680 MHz



Test EUT Mode : RRQ61051-009

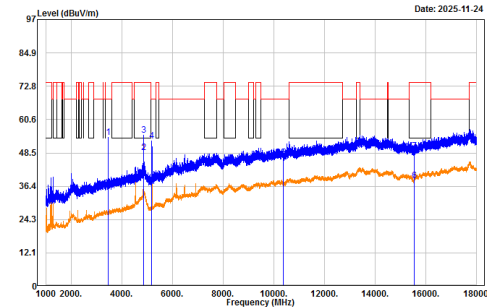
1GHz-18GHz:

UNII-1 Band I 5150~5250 MHz



802.11 ac20 Mode, 5180 MHz

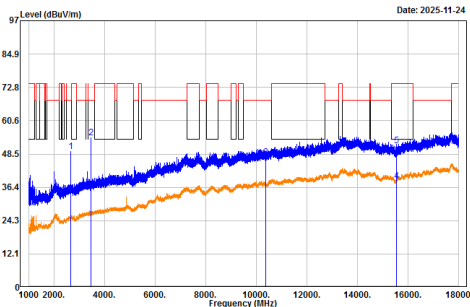
Horizontal



Trace: 1
Site : 966B Chamber
Condition: 3m horizontal
Job No : RLK250801005
Model : RRQ61051-009
Power : From Test Development Board
Tester : Derek
Temp./ Hum.: 20.5°C/ 49%
Memo : AC20-TX-5180
Memo : 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 3453.667	52.99	1.08	54.07	68.20	-14.13 Peak
2 4856.167	45.30	3.39	48.69	54.00	-5.31 Average
3 4856.733	51.68	3.39	55.07	74.00	-18.93 Peak
4 5185.967	49.11	3.80	52.91	68.20	-15.29 Peak
5 10360.000	33.87	13.02	46.89	68.20	-21.31 Peak
6 15540.000	23.85	14.65	38.50	54.00	-15.50 Average
7 15540.000	34.63	14.65	49.28	74.00	-24.72 Peak

Vertical

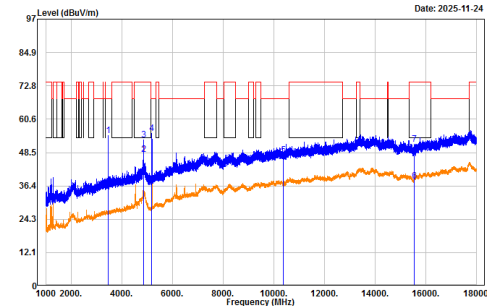


Trace: 1
Site : 966B Chamber
Condition: 3m vertical
Job No : RLK250801005
Model : RRQ61051-009
Power : From Test Development Board
Tester : Derek
Temp./ Hum.: 20.5°C/ 49%
Memo : AC20-TX-5180
Memo : RBW/VBW: PK:1M/3M; AV:1M/3k

	Read		Limit	Over	
Freq	Level	Factor	Level	Line	Limit Remark
MHz	dBuV		dB/m	dBuV/m	dB
1 2666.000	50.61	-1.15	49.46	68.20	-18.74 Peak
2 3453.667	53.32	1.08	54.40	68.20	-13.80 Peak
3 10360.000	34.23	13.02	47.25	68.20	-20.95 Peak
4 15540.000	23.98	14.65	38.63	54.00	-15.37 Average
5 15540.000	36.75	14.65	51.40	74.00	-22.60 Peak

802.11 ax20 Mode, 5180 MHz

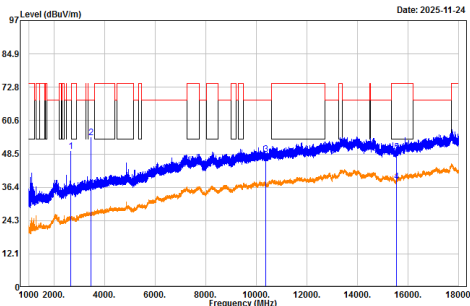
Horizontal



Trace: 1
Site : 966B Chamber
Condition: 3m horizontal
Job No : RLK250801005
Model : RRQ61051-009
Power : From Test Development Board
Tester : Derek
Temp./ Hum.: 20.5°C/ 49%
Memo : AX20-TX-5180
Memo : 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 3453.667	53.58	1.08	54.66	68.20	-13.54 Peak
2 4857.300	44.36	3.39	47.75	54.00	-6.25 Average
3 4857.300	49.67	3.39	53.06	74.00	-20.94 Peak
4 5180.867	51.56	3.80	55.36	68.20	-12.84 Peak
5 10360.000	34.49	13.02	47.51	68.20	-20.69 Peak
6 15540.000	23.57	14.65	38.22	54.00	-15.78 Average
7 15540.000	36.78	14.65	51.43	74.00	-22.57 Peak

Vertical

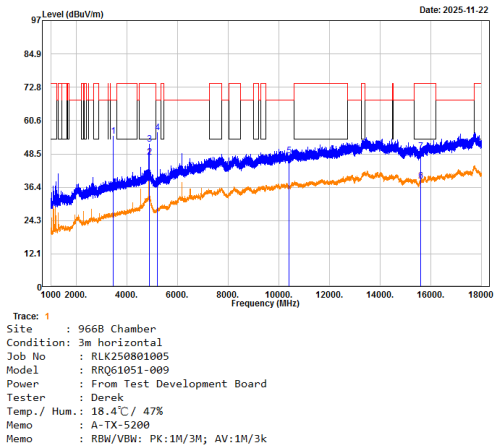


Trace: 1
Site : 966B Chamber
Condition: 3m vertical
Job No : RLK250801005
Model : RRQ61051-009
Power : From Test Development Board
Tester : Derek
Temp./ Hum.: 20.5°C/ 49%
Memo : AX20-TX-5180
Memo : RBW/VBW: PK:1M/3M; AV:1M/3k

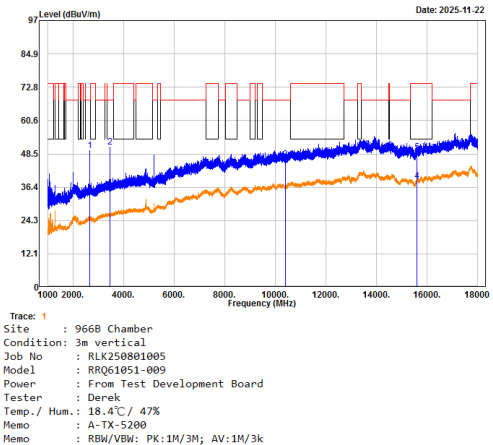
	Read		Limit	Over	
Freq	Level	Factor	Level	Line	Limit Remark
MHz	dBuV		dB/m	dBuV/m	dB
1 2658.067	50.78	-1.32	49.46	68.20	-18.74 Peak
2 3453.667	53.36	1.08	54.44	68.20	-13.76 Peak
3 10360.000	35.39	13.02	48.41	68.20	-19.79 Peak
4 15540.000	23.83	14.65	38.48	54.00	-15.52 Average
5 15540.000	34.60	14.65	49.25	74.00	-24.75 Peak

802.11a Mode, 5200 MHz

Horizontal

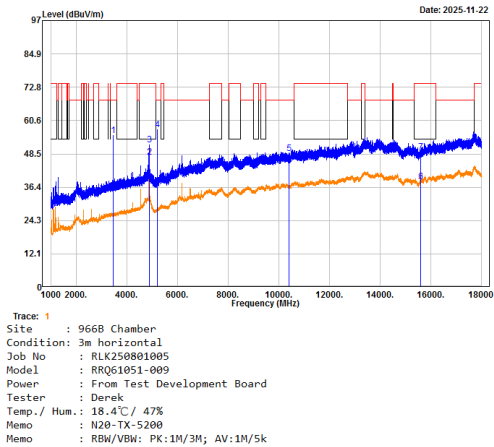


Vertical

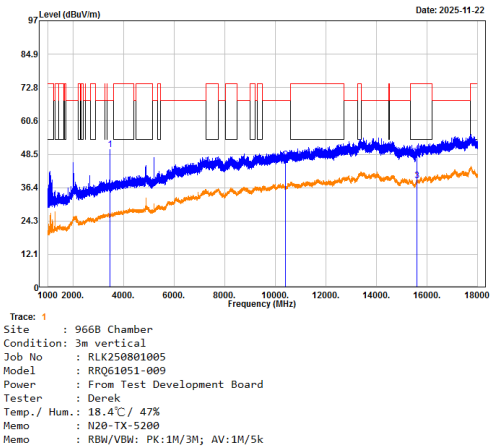


802.11 n20 Mode, 5200 MHz

Horizontal

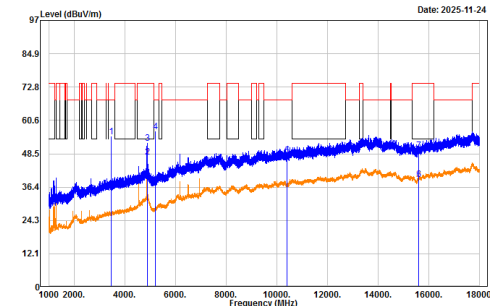


Vertical



802.11 ac20 Mode, 5200 MHz

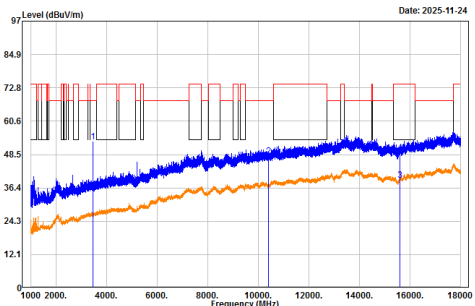
Horizontal



Trace: 1
Site : 966B Chamber
Condition: 3m horizontal
Job No : RLK250801005
Model : RRQ61051-009
Power : From Test Development Board
Tester : Derek
Temp./ Hum.: 20.5°C/ 49%
Memo : AC20-TX-5200
Memo : 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 3466.700	53.63	1.06	54.69	68.20	-13.51 Peak
2 4875.433	43.99	3.43	47.42	54.00	-6.58 Average
3 4875.433	48.76	3.43	52.19	74.00	-21.81 Peak
4 5204.667	52.73	3.81	56.54	68.20	-11.66 Peak
5 10400.000	34.87	12.99	47.86	68.20	-20.34 Peak
6 15600.000	24.79	14.39	39.18	54.00	-14.82 Average
7 15600.000	35.18	14.39	49.57	74.00	-24.43 Peak

Vertical

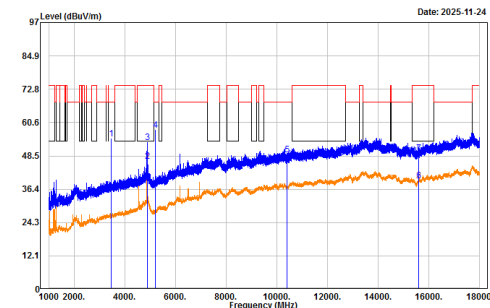


Trace: 1
Site : 966B Chamber
Condition: 3m vertical
Job No : RLK250801005
Model : RRQ61051-009
Power : From Test Development Board
Tester : Derek
Temp./ Hum.: 20.5°C/ 49%
Memo : AC20-TX-5200
Memo : RBW/VBW: PK:1M/3M; AV:1M/3k

	Read		Limit	Over	
Freq	Level	Factor	Level	Line	Limit Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1 3466.700	52.02	1.06	53.08	68.20	-15.12 Peak
2 10400.000	34.97	12.99	47.96	68.20	-20.24 Peak
3 15600.000	24.83	14.39	39.22	54.00	-14.78 Average
4 15600.000	34.89	14.39	49.28	74.00	-24.72 Peak

802.11 ax20 Mode, 5200 MHz

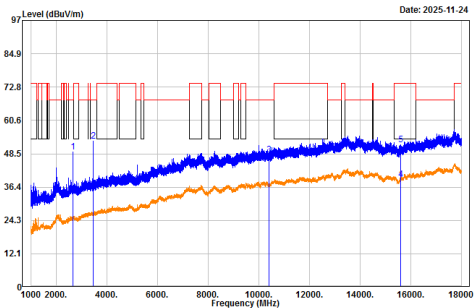
Horizontal



Trace: 1
Site : 966B Chamber
Condition: 3m horizontal
Job No : RLK250801005
Model : RRQ61051-009
Power : From Test Development Board
Tester : Derek
Temp./ Hum.: 20.5°C/ 49%
Memo : AX20-TX-5200
Memo : RBW/VBW: PK:1M/3M; AV:1M/3k

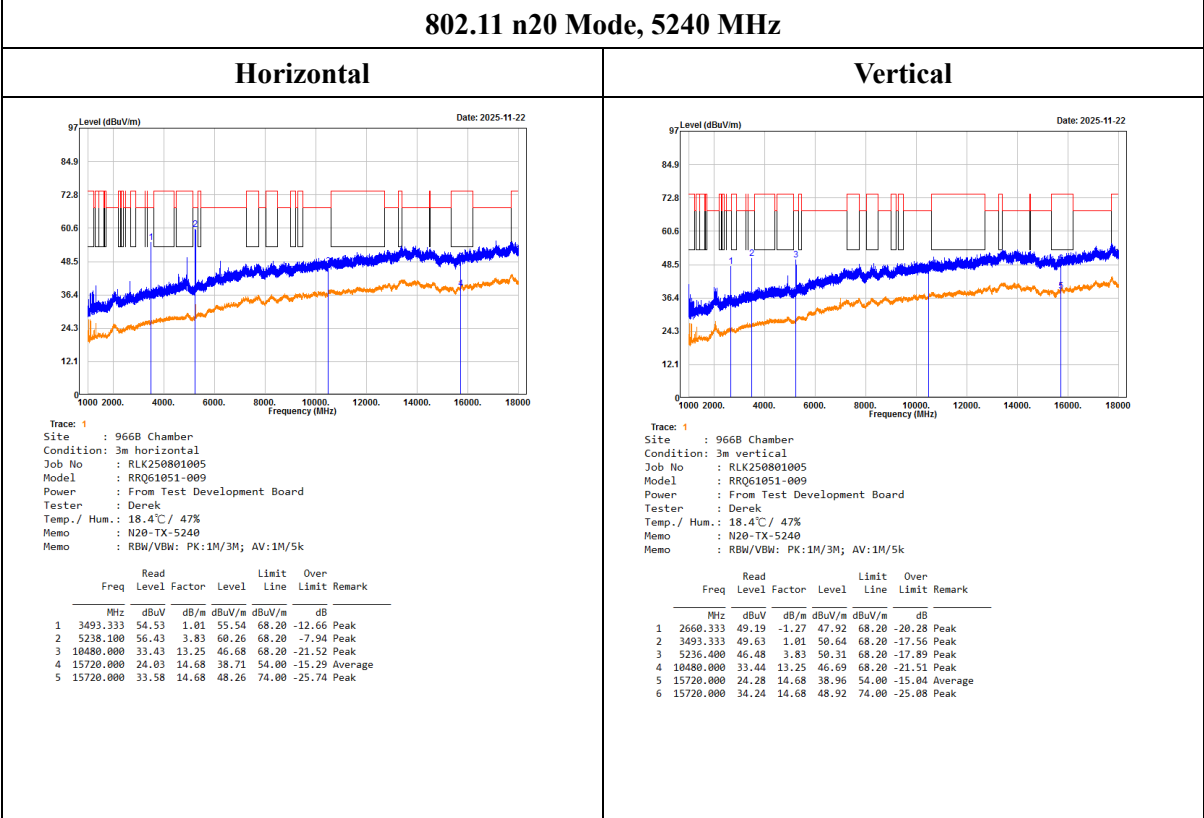
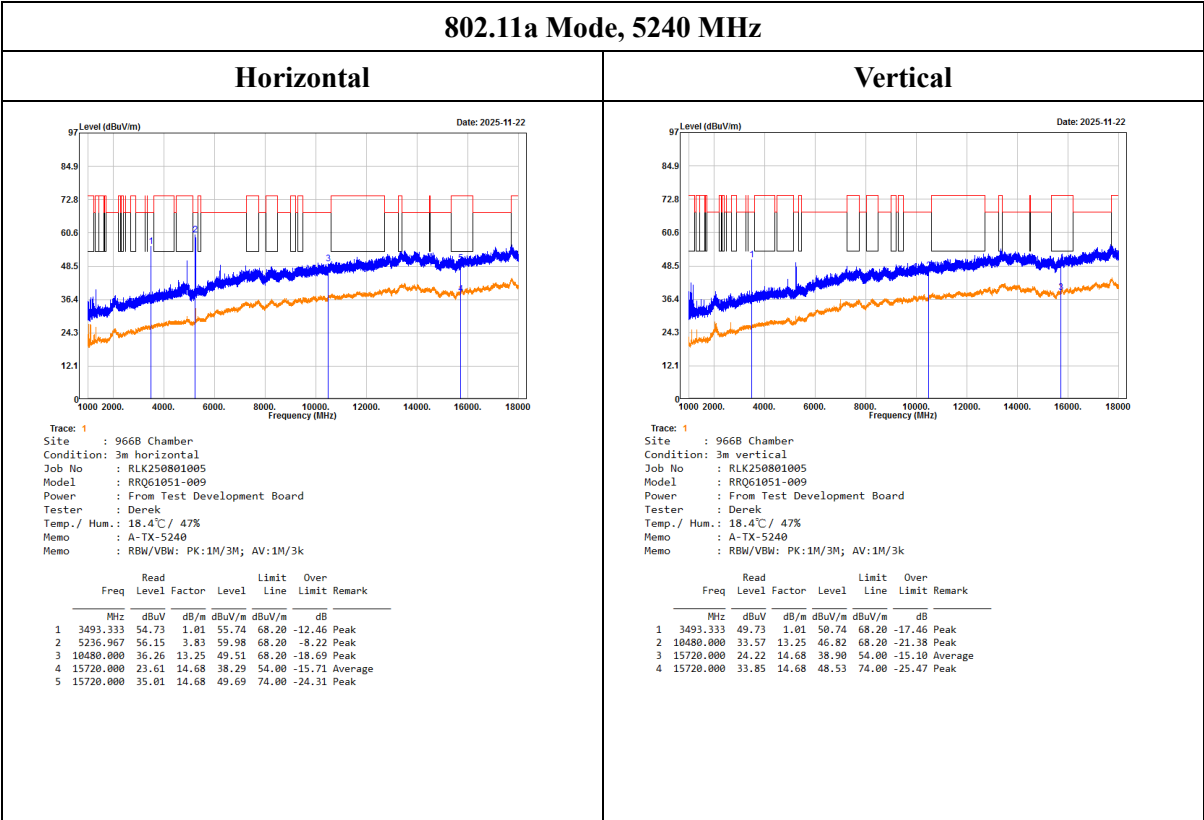
	Read		Limit	Over	
Freq	Level	Factor	Level	Line	Limit Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1 3466.700	53.69	1.06	54.75	68.20	-13.45 Peak
2 4875.433	43.18	3.43	46.61	54.00	-7.39 Average
3 4875.433	49.95	3.43	53.38	74.00	-20.62 Peak
4 5205.800	54.14	3.81	57.95	68.20	-10.25 Peak
5 10400.000	35.81	12.99	48.80	68.20	-19.40 Peak
6 15600.000	25.02	14.39	39.41	54.00	-14.59 Average
7 15600.000	35.14	14.39	49.53	74.00	-24.47 Peak

Vertical



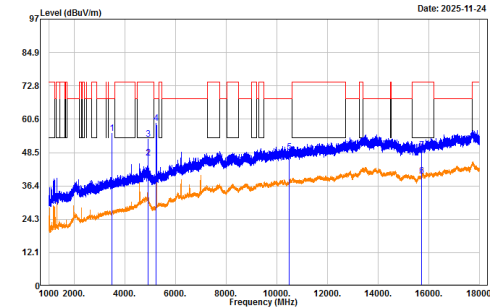
Trace: 1
Site : 966B Chamber
Condition: 3m vertical
Job No : RLK250801005
Model : RRQ61051-009
Power : From Test Development Board
Tester : Derek
Temp./ Hum.: 20.5°C/ 49%
Memo : AX20-TX-5200
Memo : RBW/VBW: PK:1M/3M; AV:1M/3k

	Read		Limit	Over	
Freq	Level	Factor	Level	Line	Limit Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1 2659.767	50.48	-1.28	49.20	68.20	-19.00 Peak
2 3466.700	51.93	1.06	52.99	68.20	-15.21 Peak
3 10400.000	35.16	12.99	48.15	68.20	-20.05 Peak
4 15600.000	24.89	14.39	39.28	54.00	-14.72 Average
5 15600.000	37.35	14.39	51.74	74.00	-22.26 Peak



802.11 ac20 Mode, 5240 MHz

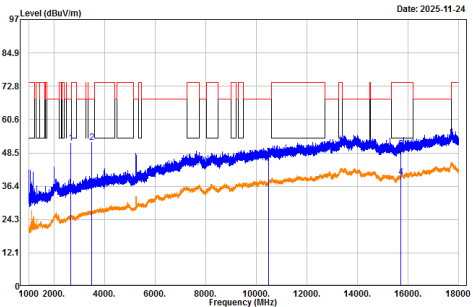
Horizontal



Trace: 1
Site : 966B Chamber
Condition: 3m horizontal
Job No : RLK250801005
Model : RRQ61051-009
Power : From Test Development Board
Tester : Derek
Temp./ Hum.: 20.5°C / 49%
Memo : AC20-TX-5240
Memo : RBW/VBW: PK:1M/3M; AV:1M/3k

	Read			Limit	Over
Freq	Level	Factor	Level	Line	Limit
MHz	dBuV		dBm	dBuV/m	dB
1 3493.333	54.46	1.01	55.47	68.20	-12.73 Peak
2 4912.833	43.06	3.51	46.57	54.00	-7.43 Average
3 4912.833	49.76	3.51	53.27	74.00	-20.73 Peak
4 5239.233	55.22	3.83	59.05	68.20	-9.15 Peak
5 10480.000	35.34	13.25	48.59	68.20	-19.61 Peak
6 15720.000	25.16	14.68	39.84	54.00	-14.16 Average
7 15720.000	34.84	14.68	49.52	74.00	-24.48 Peak

Vertical

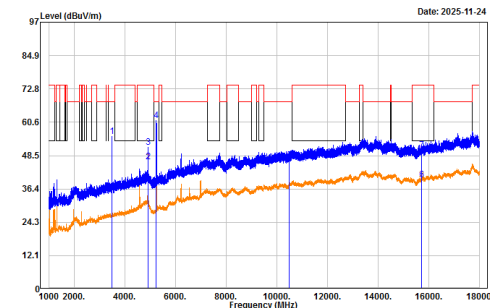


Trace: 1
Site : 966B Chamber
Condition: 3m vertical
Job No : RLK250801005
Model : RRQ61051-009
Power : From Test Development Board
Tester : Derek
Temp./ Hum.: 20.5°C / 49%
Memo : AC20-TX-5240
Memo : RBW/VBW: PK:1M/3M; AV:1M/3k

	Read			Limit	Over
Freq	Level	Factor	Level	Line	Limit
MHz	dBuV		dBm	dBuV/m	dB
1 2660.900	53.18	-1.26	51.92	68.20	-16.28 Peak
2 3493.333	51.35	1.01	52.36	68.20	-15.84 Peak
3 10480.000	33.68	13.25	46.93	68.20	-21.27 Peak
4 15720.000	25.04	14.68	39.72	54.00	-14.28 Average
5 15720.000	35.37	14.68	50.05	74.00	-23.95 Peak

802.11 ax20 Mode, 5240 MHz

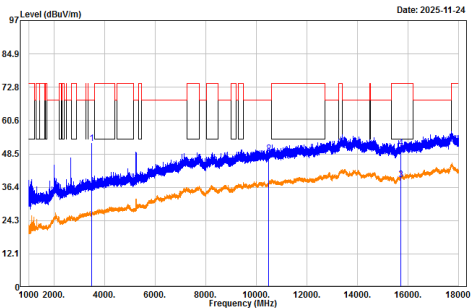
Horizontal



Trace: 1
Site : 966B Chamber
Condition: 3m horizontal
Job No : RLK250801005
Model : RRQ61051-009
Power : From Test Development Board
Tester : Derek
Temp./ Hum.: 20.5°C / 49%
Memo : AX20-TX-5240
Memo : RBW/VBW: PK:1M/3M; AV:1M/3k

	Read			Limit	Over
Freq	Level	Factor	Level	Line	Limit
MHz	dBuV		dBm	dBuV/m	dB
1 3493.333	54.42	1.01	55.43	68.20	-12.77 Peak
2 4912.833	42.81	3.51	46.32	54.00	-7.68 Average
3 4912.833	47.91	3.51	51.42	74.00	-22.58 Peak
4 5243.200	57.35	3.83	61.18	68.20	-7.02 Peak
5 10480.000	33.60	13.25	46.85	68.20	-21.35 Peak
6 15720.000	25.00	14.68	39.68	54.00	-14.32 Average
7 15720.000	35.81	14.68	50.49	74.00	-23.51 Peak

Vertical



Trace: 1
Site : 966B Chamber
Condition: 3m vertical
Job No : RLK250801005
Model : RRQ61051-009
Power : From Test Development Board
Tester : Derek
Temp./ Hum.: 20.5°C / 49%
Memo : AX20-TX-5240
Memo : RBW/VBW: PK:1M/3M; AV:1M/3k

	Read			Limit	Over
Freq	Level	Factor	Level	Line	Limit
MHz	dBuV		dBm	dBuV/m	dB
1 3493.333	51.26	1.01	52.27	68.20	-15.93 Peak
2 10480.000	35.49	13.25	48.74	68.20	-19.46 Peak
3 15720.000	24.54	14.68	39.22	54.00	-14.78 Average
4 15720.000	35.93	14.68	50.61	74.00	-23.39 Peak

UNII-2A Band II 5250~5350 MHz

