

TEST REPORT

Applicant Name: YEALINK(XIAMEN) NETWORK TECHNOLOGY CO.,LTD.
Address: No.666 Hu'an Rd. Huli District Xiamen City, Fujian, P.R. China
Report Number: 2501Q31691E-RF-00
FCC ID: T2C-SV80

Test Standard (s)

FCC PART 15.407

Sample Description

Product Type: Video Conferencing Camera
Model No.: SmartVision 80
Multiple Model(s) No.: N/A
Trade Mark: **Yealink**
Date Received: 2025-02-18
Issue Date: 2025-05-21

Test Result:

Pass▲

▲ In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

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Ekko Wu
RF Engineer

Approved By:

Nancy Wang

Nancy Wang
RF Supervisor

Note: The information marked # is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included.

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	2501Q31691E-RF-00	Original Report	2025-05-21

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Frequency Range	For Module YL43752: 5150-5250 MHz, 5725-5850MHz: For Module YL43456: 5150-5250MHz; 5250-5350MHz; 5470-5725MHz; 5725-5850MHz
Mode	For Module YL43752: 802.11a/n20/n40/ac20/ac40/ac80/ax20/ax40/ax80 For Module YL43456: 802.11a/n20/n40/ac20/ac40/ac80
Device Type	For Module YL43752: Indoor AP For Module YL43456: Client Device
Maximum Conducted Average Output Power	For Module YL43752: 5150-5250MHz: 15.20dBm; 5725-5850MHz: 14.58dBm For Module YL43456: 5150-5250MHz: 17.37dBm; 5250-5350MHz: 17.25dBm 5470-5725MHz: 17.21dBm; 5725-5850MHz: 16.73dBm
Modulation Technique	For Module YL43752: OFDM, OFDMA For Module YL43456: OFDM
Antenna Specification[#]	For Module YL43752: 5150-5250MHz: ANT0: 0.88dBi, ANT1: 1.47dBi 5725-5850MHz: ANT0: 2.37dBi, ANT1: 1.57dBi For Module YL43456 5150-5250MHz: ANT2: 1.41dBi, 5250-5350MHz: ANT2: 1.99dBi 5470-5725MHz: ANT2: 2.18dBi, 5725-5850MHz: ANT2: 2.00dBi (provided by the applicant)
Voltage Range	DC 48V from adapter or DC 54V from PoE
Sample serial number	2YH7-2 for Conducted and Radiated Emissions Test 2YH7-1 for RF Conducted Test (Assigned by BACL, Shenzhen)
Sample/EUT Status	Good condition
Adapter Information	Model: HKA06548014-7Y Input: AC 100-240V, 50/60Hz, 1.8A Output: DC 48.0V, 1.36A, 65.28W
Note: The EUT powered by adapter or POE, the worst case adapter power supply was selected to test for AC line conducted emission according to BLE report test result and radiated emission below 1GHz according to 2.4G Wi-Fi report test result.	

Objective

This test report is in accordance with Part 2-Subpart J, Part 15-Subparts A and E of the Federal Communication Commissions rules.

KDB789033 D02 General U-NII Test Procedures New Rules v02r01

The tests were performed in order to determine compliance with FCC Part 15, Subpart E, section 15.203, 15.205, 15.207, 15.209 and 15.407 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Each test item follows test standards and with no deviation.

Measurement Uncertainty

Parameter		Uncertainty
Occupied Channel Bandwidth		109.2kHz(k=2, 95% level of confidence)
RF Frequency		56.6Hz(k=2, 95% level of confidence)
RF output power, conducted		0.86dB(k=2, 95% level of confidence)
Unwanted Emission, conducted		1.60dB(k=2, 95% level of confidence)
Power Spectral Density		0.90dB(k=2, 95% level of confidence)
AC Power Lines Conducted Emissions	9kHz-150kHz	3.63dB(k=2, 95% level of confidence)
	150kHz-30MHz	3.66dB(k=2, 95% level of confidence)
Radiated Emissions	9kHz - 30MHz	3.60dB(k=2, 95% level of confidence)
	30MHz~200MHz (Horizontal)	5.32dB(k=2, 95% level of confidence)
	30MHz~200MHz (Vertical)	5.43dB(k=2, 95% level of confidence)
	200MHz~1000MHz (Horizontal)	5.77dB(k=2, 95% level of confidence)
	200MHz~1000MHz (Vertical)	5.73dB(k=2, 95% level of confidence)
	1GHz - 6GHz	5.34dB(k=2, 95% level of confidence)
	6GHz - 18GHz	5.40dB(k=2, 95% level of confidence)
	18GHz - 40GHz	5.64dB(k=2, 95% level of confidence)
Temperature		±1°C
Humidity		±1%
Supply voltages		±0.4%

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.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 5F(B-West) , 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 715558, the FCC Designation No. : CN5045.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

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

For 5150-5250MHz Band, 7 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	44	5220
38	5190	46	5230
40	5200	48	5240
42	5210	/	/

For 802.11a/ac20/ax20 mode: channel 36, 40, 48 were tested;

For 802.11ac40/ax40 mode: channel 38, 46 were tested;

For 802.11ac80/ax80 mode, channel 42 was tested.

For 5250-5350MHz Band, 7 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	60	5300
54	5270	62	5310
56	5280	64	5320
58	5290	/	/

For 802.11a/ac20 mode: channel 52, 56, 64 were tested;

For 802.11ac40 mode: channel 54, 62 were tested;

For 802.11ac80 mode, channel 58 was tested.

For 5470-5725MHz Band, 21 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	124	5620
102	5510	126	5630
104	5520	128	5640
106	5530	132	5660
108	5540	134	5670
110	5550	136	5680
112	5560	138	5690
116	5580	140	5700
118	5590	142	5710
120	5600	144	5720
122	5610	/	/

For 802.11a/ac20 mode: channel 100, 116, 140, 144 were tested;

For 802.11ac40 mode: channel 102, 110, 134, 142 were tested;

For 802.11ac80 mode, channel 106, 122, 138 was tested.

For 5725-5850MHz Band, 8 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	157	5785
151	5755	159	5795
153	5765	161	5805
155	5775	165	5825

For 802.11a/ac20/ax20 mode: channel 149, 157, 165 were tested;

For 802.11ac40/ax40 mode: channel 151, 159 were tested;

For 802.11ac80/ax80 mode, channel 155 was tested.

EUT Exercise Software

Exercise Software [#]	AuthenticationTool.exe			
Module YL43752:				
5150-5250 MHz Band				
Mode	Test Channels	Data rate	Power Level [#]	
			ANT 0	ANT 1
802.11a	Low	6Mbps	14	14
	Middle	6Mbps	14	14
	High	6Mbps	14	14
802.11ac-VHT20	Low	MCS0	14	14
	Middle	MCS0	14	14
	High	MCS0	14	14
802.11ac-VHT40	Low	MCS0	14	14
	High	MCS0	14	14
802.11ac-VHT80	Middle	MCS0	14	14
802.11ax-HE20	Low	MCS0	14	14
	Middle	MCS0	14	14
	High	MCS0	14	14
802.11ax-HE40	Low	MCS0	14	14
	High	MCS0	14	14
802.11ax-HE80	Middle	MCS0	14	14

5725-5850 MHz Band				
Mode	Test Channels	Data rate	Power Level[#]	
			ANT 0	ANT 1
802.11a	Low	6Mbps	14	14
	Middle	6Mbps	14	14
	High	6Mbps	14	14
802.11ac-VHT20	Low	MCS0	14	14
	Middle	MCS0	14	14
	High	MCS0	14	14
802.11ac-VHT40	Low	MCS0	14	14
	High	MCS0	14	14
802.11ac-VHT80	Middle	MCS0	14	14
802.11ac-VHT20	Low	MCS0	14	14
	Middle	MCS0	14	14
	High	MCS0	14	14
802.11ac-VHT40	Low	MCS0	14	14
	High	MCS0	14	14
802.11ac-VHT80	Low	MCS0	14	14
Module YL43456:				
5150-5250 MHz Band				
Mode	Test Channels	Data rate	Power Level[#]	
			ANT 2	
802.11a	Low	6Mbps	13	
	Middle	6Mbps	13	
	High	6Mbps	13	
802.11ac-VHT20	Low	MCS0	13	
	Middle	MCS0	13	
	High	MCS0	13	
802.11ac-VHT40	Low	MCS0	13	
	High	MCS0	13	
802.11ac-VHT80	Middle	MCS0	13	

5250-5350 MHz Band			
Mode	Test Channels	Data rate	Power Level [#]
			ANT 2
802.11a	Low	6Mbps	13
	Middle	6Mbps	13
	High	6Mbps	13
802.11ac-VHT20	Low	MCS0	13
	Middle	MCS0	13
	High	MCS0	13
802.11ac-VHT40	Low	MCS0	13
	High	MCS0	13
802.11ac-VHT80	Middle	MCS0	13
5470-5725 MHz Band			
Mode	Test Channels	Data rate	Power Level [#]
			ANT 2
802.11a	Low	6Mbps	13
	Middle	6Mbps	13
	High	6Mbps	13
	Cross	6Mbps	13
802.11ac-VHT20	Low	MCS0	13
	Middle	MCS0	13
	High	MCS0	13
	Cross	MCS0	13
802.11ac-VHT40	Low	MCS0	13
	Middle	MCS0	13
	High	MCS0	13
	Cross	MCS0	13
802.11ac-VHT80	Low	MCS0	13
	High	MCS0	13
	Cross	MCS0	13

5725-5850 MHz Band			
Mode	Test Channels	Data rate	Power Level [#]
			ANT 2
802.11a	Low	6Mbps	13
	Middle	6Mbps	13
	High	6Mbps	13
802.11ac-VHT20	Low	MCS0	13
	Middle	MCS0	13
	High	MCS0	13
802.11ac-VHT40	Low	MCS0	13
	High	MCS0	13
802.11ac-VHT80	Middle	MCS0	13

Note:

1. The worst-case data rates are determined to be as follows for each mode based upon investigation by measuring the power and PSD across all data rates bandwidths, and modulations.
2. For 802.11a/ n/ac/ax modes, the device supports SISO only.
3. The n20/n40 mode was reduced test as identical parameter with ac20/ac40 mode.
4. For 802.11 ax modes, the device not support partial RU mode.

Special Accessories

No special accessory.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

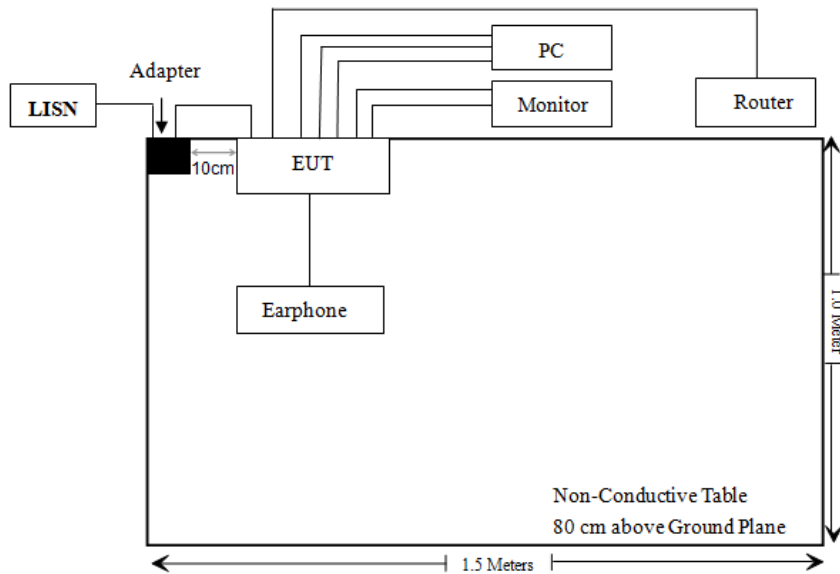
Manufacturer	Description	Model	Serial Number
HIKVISION	Router	DS-3WR03	10021642429
Redmi	Monitor	A22FAB	47366/206100029128
GREATWALL	PC	NF50AL	/
/	Earphone	/	/

External I/O Cable

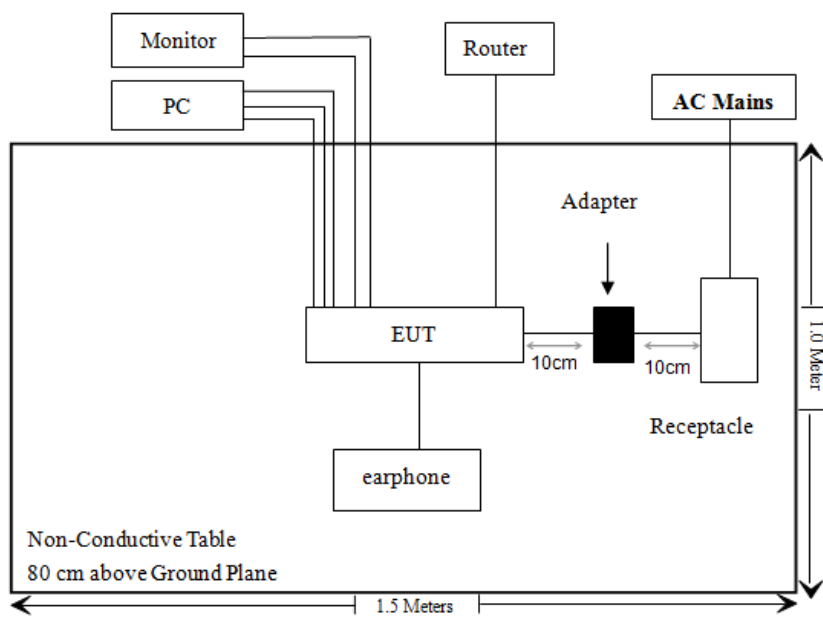
Cable Description	Length (m)	From Port	To
Un-shielding Detachable AC Cable	1.5	Adapter	LISN/AC Mains/ Receptacle
Un-shielding Un-Detachable DC Cable	1.0	Adapter	EUT
Shielded Detachable HDMI Cable	2.0	EUT	PC
Shielded Detachable USB(A-B) Cable	2.0	EUT	PC
Shielded Detachable USB Cable	2.0	EUT	Monitor
Unshielded Detachable RJ45 Cable*2	2.0	EUT	Monitor & PC
Shielded Detachable RJ45 Cable	4.0	EUT	Router
Unshielded Un-detachable Earphone Cable	1.0	EUT	Earphone

Block Diagram of Test Setup

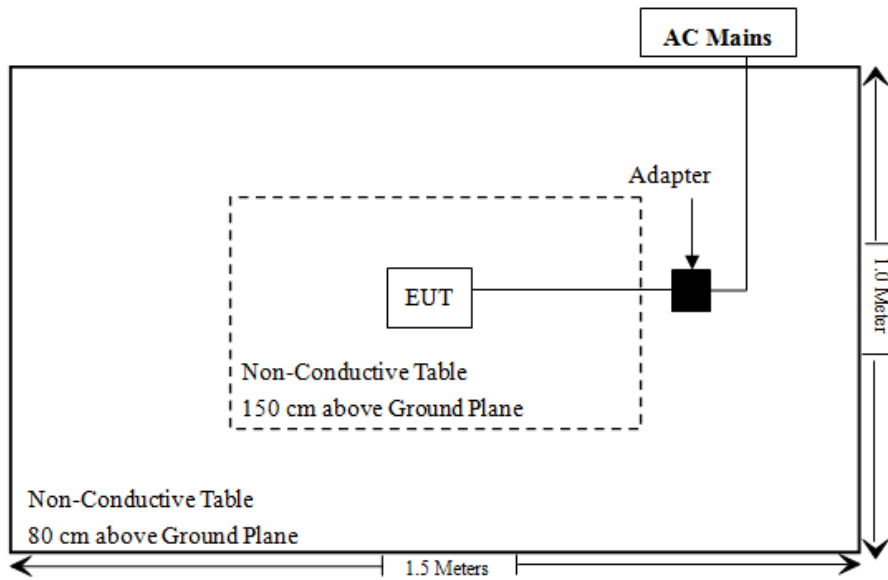
For Conducted Emissions:



For Radiated Emissions below 1GHz:



For Radiated Emissions above 1GHz:



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§1.1307 (b) & §2.1091	MPE-Based Exemption	Compliant
§15.203	Antenna Requirement	Compliant
§15.207(a)	Conducted Emissions	Compliant
§15.205& §15.209 &§15.407(b)	Undesirable Emission& Restricted Bands	Compliant
§15.407(a) (e)	26 dB Emission Bandwidth & 6dB Bandwidth	Compliant
§15.407(a)	Conducted Transmitter Output Power	Compliant
§15.407 (a)	Power Spectral Density	Compliant
§15.407 (h)	Transmit Power Control (TPC)	Not Applicable
§15.407 (h)	Dynamic Frequency Selection (DFS)	Compliant*
C63.10 §11.6	Duty Cycle	/

Compliant*: Please refer to the DFS report 2501Q31691E-RFD.

Not Applicable: For 5250-5350MHz/5470-5725MHz, the maximum EIRP is 19.39dBm<27dBm (500mW).

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted Emission Test					
Rohde & Schwarz	LISN	ENV216	101613	2024/12/04	2025/12/03
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2024/12/04	2025/12/03
Unknown	CE Cable	Unknown	UF A210B-1-0720-504504	2024/05/21	2025/05/20
Rohde & Schwarz	Transient Limiter	ESH3Z2	DE25985	2024/05/21	2025/05/20
Audix	EMI Test software	E3	191218(V9)	NCR	NCR
Radiated Emission Test_ Below 1GHz					
Rohde & Schwarz	EMI Test Receiver	ESR3	102455	2024/12/04	2025/12/03
Sonoma instrument	Pre-amplifier	310N	186238	2024/05/21	2025/05/20
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2023/07/20	2026/07/19
Unknown	Cable	XH500C	J-10M-A	2024/06/18	2025/06/17
Unknown	Cable	Chamber Cable 1	F-03-EM236	2024/06/18	2025/06/17
BACL	Active Loop Antenna	1313-1A	4031911	2024/05/14	2027/05/13
Unknown	Cable	PNG214	1354	2024/12/04	2025/12/03
Unknown	Cable	2Y194	0735	2024/12/04	2025/12/03
Audix	EMI Test software	E3	19821b(V9)	NCR	NCR
Radiated Emission Test_ Above 1GHz					
Rohde&Schwarz	Spectrum Analyzer	FSV40	101605	2024/03/27	2025/03/26
COM-POWER	Pre-amplifier	PA-122	181919	2024/06/18	2025/06/17
Schwarzbeck	Horn Antenna	BBHA9120D(1201)	1143	2023/07/26	2026/07/25
Unknown	RF Cable	KMSE	0735	2024/12/06	2025/12/05
Unknown	RF Cable	UFA147	219661	2024/12/06	2025/12/05
Unknown	RF Cable	XH750A-N	J-10M	2024/12/06	2025/12/05
JD	Filter Switch Unit	DT7220FSU	DS79906	2024/09/09	2025/09/08
JD	Multiplex Switch Test Control Set	DT7220SCU	DS79903	2024/09/09	2025/09/08
A.H.System	Pre-amplifier	PAM-1840VH	190	2024/06/18	2025/06/17
Electro-Mechanics Co	Horn Antenna	3116	9510-2270	2023/09/18	2026/09/17
UTIFLEX	RF Cable	NO. 13	232308-001	2024/12/18	2025/12/17
Audix	EMI Test software	E3	191218(V9)	NCR	NCR

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
RF Conducted Test					
ANRITSU	Microwave peak power sensor	MA24418A	12622	2024/05/21	2025/05/20
Rohde & Schwarz	Spectrum Analyzer	FSV40	101473	2024/12/04	2025/12/03
Unknown	10dB Attenuator	Unknown	F-03-EM190	2024/06/27	2025/06/26

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

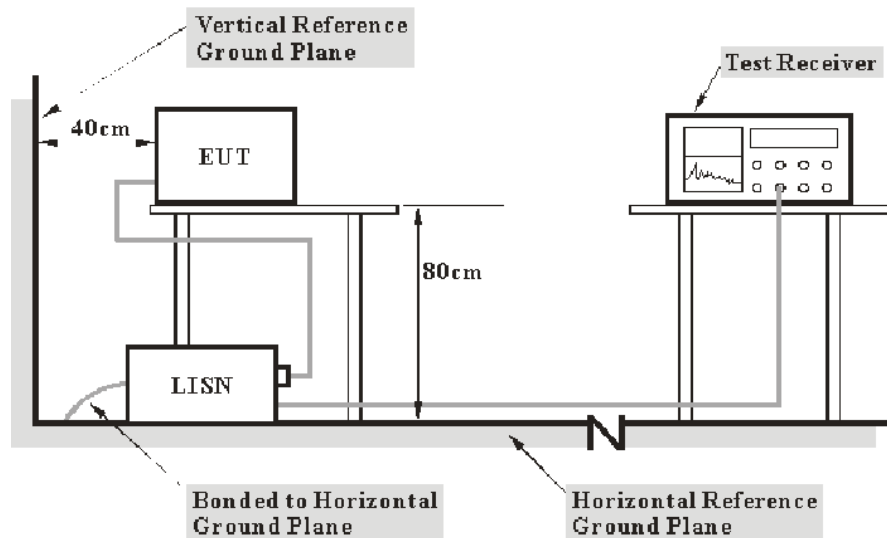
REQUIREMENTS AND TEST PROCEDURES

Conducted Emissions

Applicable Standard

FCC §15.207

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 C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

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

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

Frequency Range	RBW
150 kHz – 30 MHz	9 kHz

Test Procedure

During the conducted emission test, the adapter was connected to 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.

Factor & Over Limit Calculation

The factor is calculated by adding LISN VDF (Voltage Division Factor) and Cable Loss. The basic equation is as follows:

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

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 calculation is as follows:

$$\begin{aligned}\text{Over Limit} &= \text{Level} - \text{Limit} \\ \text{Level} &= \text{Read Level} + \text{Factor}\end{aligned}$$

Note: The term "cable loss" refers to the combination of a cable and a 10dB transient limiter (attenuator).

Undesirable Emission

Applicable Standard

FCC §15.407 (b); §15.209; §15.205;

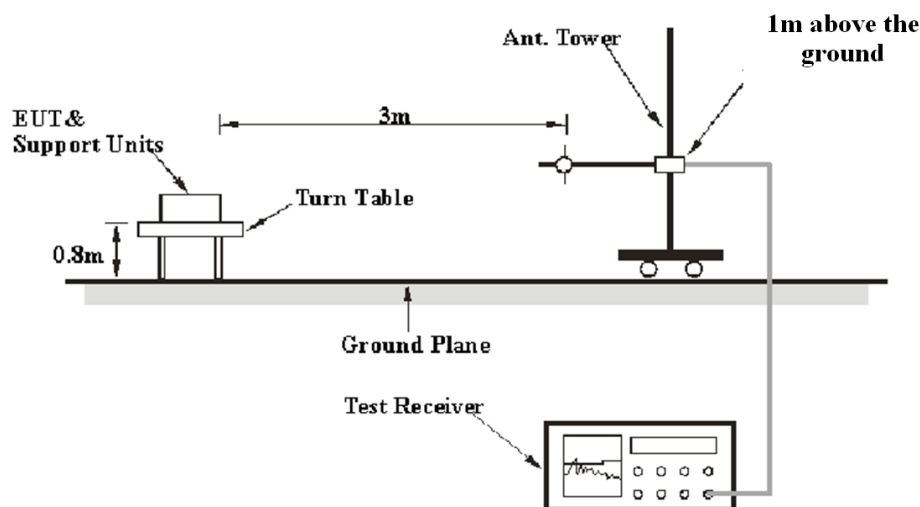
(b) Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

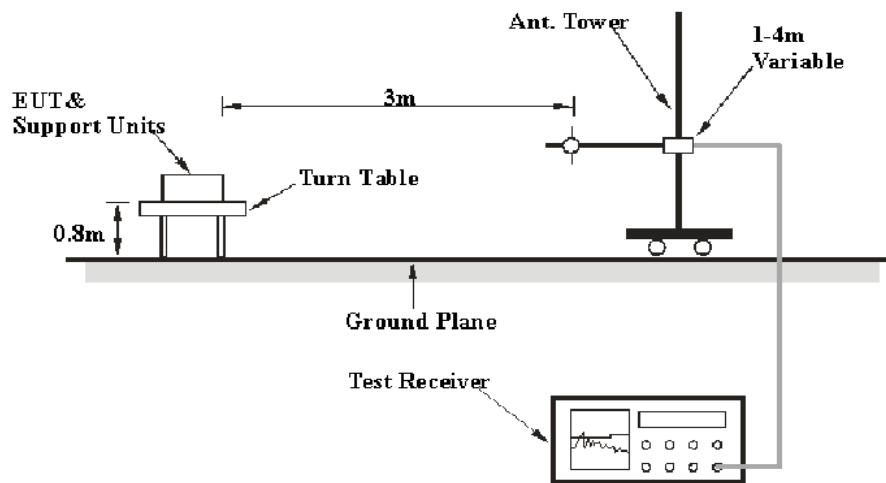
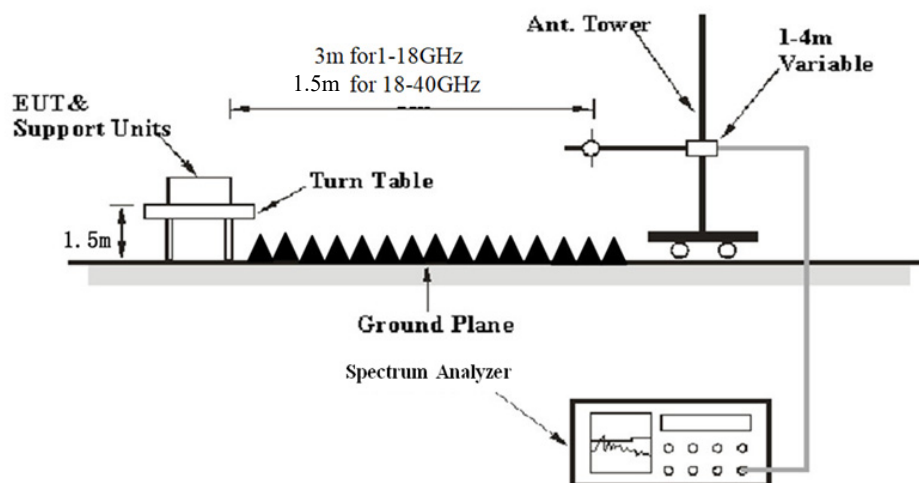
- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band:
 - (i) 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.

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

EUT Setup

9 kHz-30MHz:



30MHz-1GHz:**Above 1 GHz:**

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC 15.209 and FCC 15.407 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

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 & Spectrum Analyzer Setup were set with the following configurations:

9 kHz-1GHz:

Frequency Range	RBW	Video B/W	IF B/W	Measurement	Detector
9 kHz – 150 kHz	/	/	200 Hz	QP	QP
	300 Hz	1 kHz	/	PK	Peak
150 kHz – 30 MHz	/	/	9 kHz	QP	QP
	10 kHz	30 kHz	/	PK	Peak
30 MHz – 1000 MHz	/	/	120 kHz	QP	QP
	100 kHz	300 kHz	/	PK	Peak

1-40GHz:

Pre-scan

Measurement	Duty cycle	RBW	Video B/W	Detector
PK	Any	1MHz	3 MHz	Peak
AV	>98%	1MHz	1 kHz	Peak
	<98%	1MHz	≥1/Ton	Peak

Final measurement for emission identified during pre-scan

Measurement	Duty cycle	RBW	Video B/W	Detector
PK	Any	1MHz	3 MHz	Peak
AV	>98%	1MHz	10 Hz	Peak
	<98%	1MHz	≥1/Ton	Peak

Note: Ton 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.

Test Procedure

Radiated Spurious Emission

During the radiated emission test, the adapter was connected to the AC floor outlet.

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

All final data was recorded in Quasi-peak detection mode except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz, average detection modes for frequency bands 9–90 kHz and 110–490 kHz, peak and average detection modes for frequencies above 1 GHz.

For 9 kHz-30MHz, the report shall list the six emissions with the smallest margin relative to the limit, for each of the three antenna orientations (parallel, perpendicular, and ground-parallel) unless the margin is greater than 20 dB.

According to ANSI C63.10-2013,9.4: For field strength measurements made at other than the distance at which the applicable limit is specified, extrapolate the measured field strength to the field strength at the distance specified by the limit using an inverse distance correction factor (20 dB/decade of distance). In some cases, a different distance correction factor may be required;

$$E_{\text{SpecLimit}} = E_{\text{Meas}} + 20 \log \left(\frac{d_{\text{Meas}}}{d_{\text{SpecLimit}}} \right)$$

where

$E_{\text{SpecLimit}}$	is the field strength of the emission at the distance specified by the limit, in dBμV/m
E_{Meas}	is the field strength of the emission at the measurement distance, in dBμV/m
d_{Meas}	is the measurement distance, in m
$d_{\text{SpecLimit}}$	is the distance specified by the limit, in m

So the extrapolation factor of 1m is $20 \cdot \log(1.5/3) = -6.0$ dB, for 18-40GHz range, the limit of 1.5m distance was added by 6.0dB from limit of 3m to compared with the result measurement at 1.5m distance.

Factor & Over Limit/Margin Calculation

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

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

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

$$\begin{aligned} \text{Over Limit} &= \text{Level} - \text{Limit}; \text{Margin} = \text{Limit} - \text{Corrected Amplitude} \\ \text{Level} / \text{Corrected Amplitude} &= \text{Read Level} + \text{Factor} \end{aligned}$$

26 dB & 6dB Emission Bandwidth

Applicable Standard

The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

Test Procedure

According to KDB789033 D02 section II.C and section II.D

1. Emission Bandwidth (EBW)

- a) Set RBW = approximately 1% of the emission bandwidth.
- b) Set the VBW > RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

2. Minimum Emission Bandwidth for the band 5.725-5.85 GHz

Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.725-5.85 GHz. The following procedure shall be used for measuring this bandwidth:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

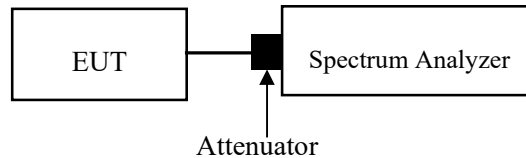
3. 99% Occupied Bandwidth:

According to ANSI C63.10-2013 Section 12.4.2&6.9.3

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:

- a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.

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



Conducted Transmitter Output Power

Applicable Standard

For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

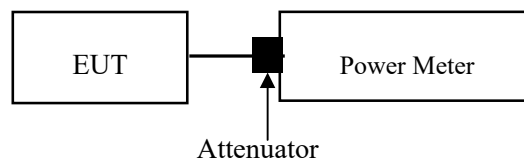
For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

Test Procedure

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method PM-G should be applied

- a. Place the EUT on a bench and set it in transmitting mode.
- b. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.



Note: A short RF cable with low cable loss connected to the EUT antenna port, which was provided by client or lab, the cable loss was added with offset into test equipment, the total offset consists of attenuator and/or RF cable and/or power splitter loss

Power Spectral Density

For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

Test Procedure

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01

Duty cycle $\geq 98\%$

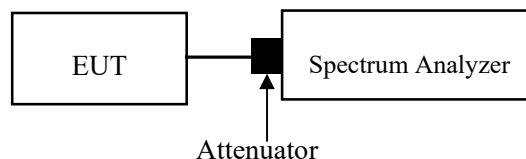
KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-1 should be applied.

Duty cycle $< 98\%$, duty cycle variations are less than $\pm 2\%$

KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-2 should be applied.

Duty cycle $< 98\%$, duty cycle variations exceed $\pm 2\%$

KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-3 should be applied.



Note: A short RF cable with low cable loss connected to the EUT antenna port, which was provided by client or lab, the cable loss was added with offset into test equipment, the total offset consists of attenuator and/or RF cable and/or power splitter loss

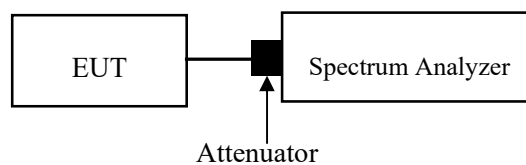
Duty Cycle

Test Procedure

According to ANSI C63.10-2013 Section 12.2

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the ON and OFF times of the transmitted signal:

- 1) Set the center frequency of the instrument to the center frequency of the transmission.
- 2) Set $RBW \geq OBW$ if possible; otherwise, set RBW to the largest available value.
- 3) Set $VBW \geq RBW$. Set detector = peak or average.
- 4) The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$ and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring the duty cycle shall not be used if $T \leq 16.7 \mu s$.)



ANTENNA REQUIREMENT

Applicable Standard

According to FCC § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

Antenna Connector Construction

The EUT has three internal antennas which were permanently attached, fulfill the requirement of this section. Please refer to the EUT photos.

ANT	Type	Antenna Gain [#]	Impedance	Frequency Range
For module YL43752				
ANT0	PCB	0.88dBi	50Ω	5150-5250MHz
ANT1	PCB	1.47dBi	50Ω	5150-5250MHz
ANT0	PCB	2.37dBi	50Ω	5725-5850MHz
ANT1	PCB	1.57dBi	50Ω	5725-5850MHz
For module YL43456				
ANT2	FPC	1.41dBi	50Ω	5150-5250MHz
ANT2	FPC	1.99dBi	50Ω	5250-5350MHz
ANT2	FPC	2.18dBi	50Ω	5470-5725MHz
ANT2	FPC	2.00dBi	50Ω	5725-5850MHz

Result: Compliant

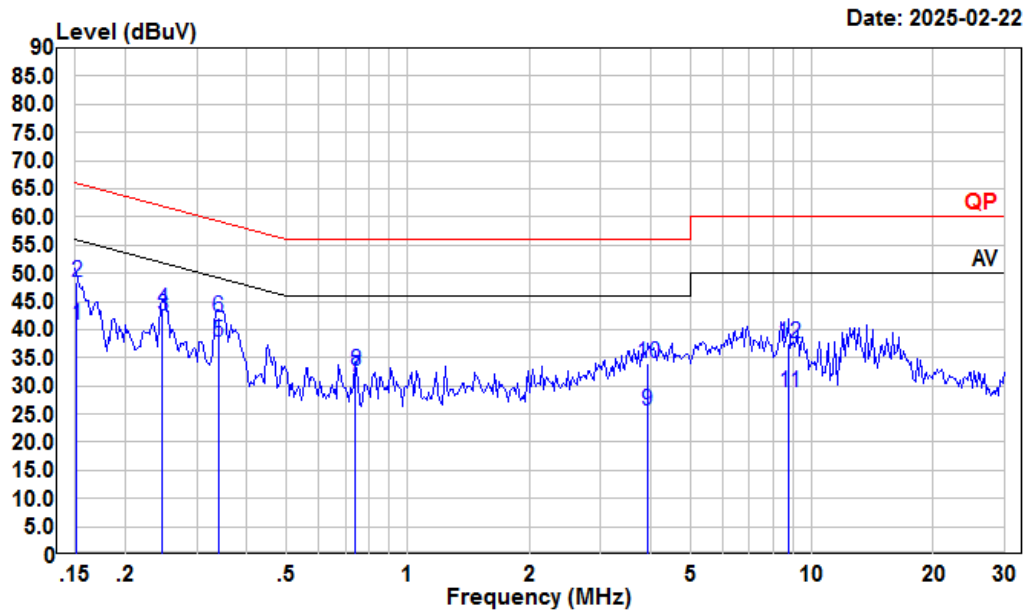
TEST DATA AND RESULTS

Conducted Emissions

Temperature (°C)	22.5	Relative Humidity (%)	50
ATM Pressure (kPa)	101.6	Test engineer	Macy.shi
Test date	2025.2.22		
EUT operation mode	Transmitting		

For module YL43752 (Maximum output power mode, ANT1 802.11ax80 5210MHz)

AC 120V 60 Hz, Line



Condition: Line

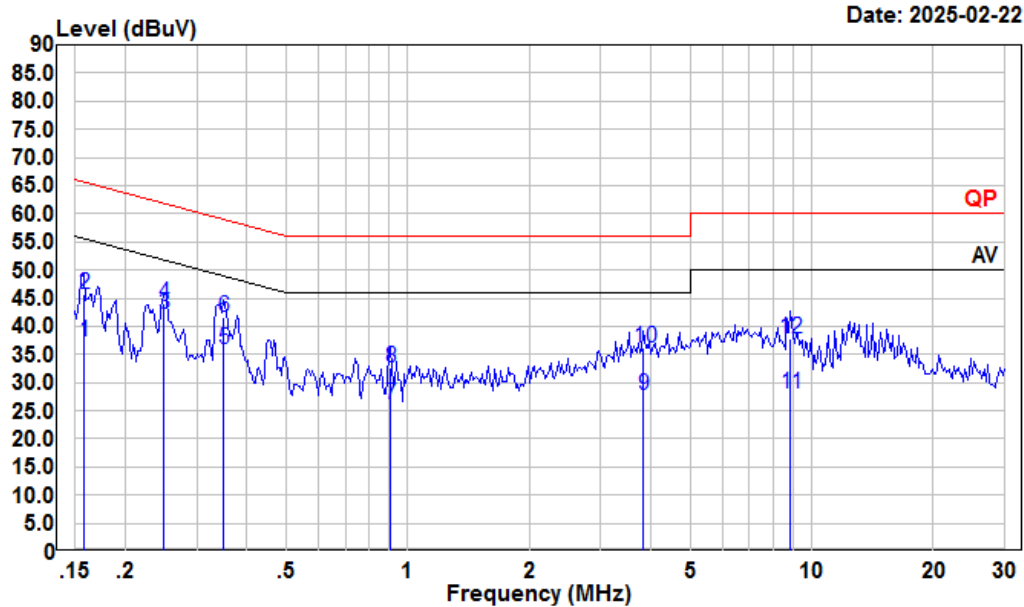
Project : 2501Q31691E-RF

tester : Macy.shi Note:Transmitting

Setting : RBW:9kHz

	Freq	Read Level	LISN Level	LISN Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.152	20.39	40.71	10.19	10.13	55.91	-15.20	Average
2	0.152	28.06	48.38	10.19	10.13	65.91	-17.53	QP
3	0.247	22.19	42.31	10.04	10.08	51.86	-9.55	Average
4	0.247	23.44	43.56	10.04	10.08	61.86	-18.30	QP
5	0.339	17.56	37.93	10.25	10.12	49.22	-11.29	Average
6	0.339	21.71	42.08	10.25	10.12	59.22	-17.14	QP
7	0.743	10.63	31.45	10.68	10.14	46.00	-14.55	Average
8	0.743	11.81	32.63	10.68	10.14	56.00	-23.37	QP
9	3.922	5.47	25.69	10.01	10.21	46.00	-20.31	Average
10	3.922	13.81	34.03	10.01	10.21	56.00	-21.97	QP
11	8.776	8.11	28.72	10.41	10.20	50.00	-21.28	Average
12	8.776	16.99	37.60	10.41	10.20	60.00	-22.40	QP

AC 120V 60 Hz, Neutral



Condition: Neutral

Project : 2501Q31691E-RF

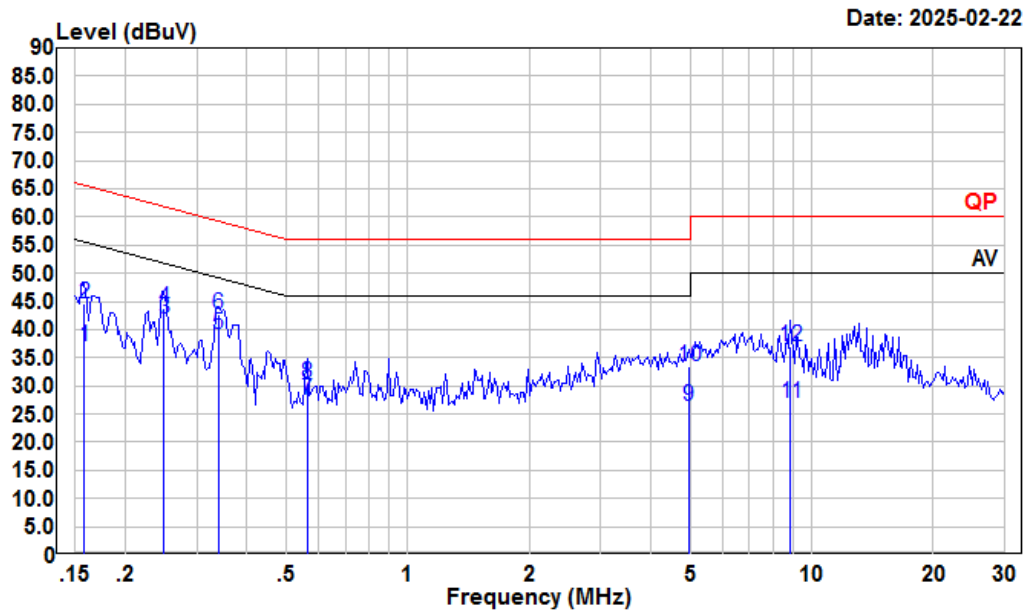
tester : Macy.shi Note:Transmitting

Setting : RBW:9kHz

	Freq	Read Level	LISN Level	Cable Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.158	16.92	37.30	10.26	10.12	55.56	-18.26	Average
2	0.158	25.23	45.61	10.26	10.12	65.56	-19.95	QP
3	0.249	21.90	42.20	10.22	10.08	51.78	-9.58	Average
4	0.249	23.88	44.18	10.22	10.08	61.78	-17.60	QP
5	0.350	15.47	36.00	10.41	10.12	48.96	-12.96	Average
6	0.350	21.05	41.58	10.41	10.12	58.96	-17.38	QP
7	0.909	5.39	26.14	10.65	10.10	46.00	-19.86	Average
8	0.909	11.78	32.53	10.65	10.10	56.00	-23.47	QP
9	3.840	7.33	27.65	10.11	10.21	46.00	-18.35	Average
10	3.840	15.78	36.10	10.11	10.21	56.00	-19.90	QP
11	8.869	7.26	27.93	10.47	10.20	50.00	-22.07	Average
12	8.869	17.02	37.69	10.47	10.20	60.00	-22.31	QP

For module YL43456 (Maximum output power mode, 802.11a 5200MHz)

AC 120V 60 Hz, Line



Condition: Line

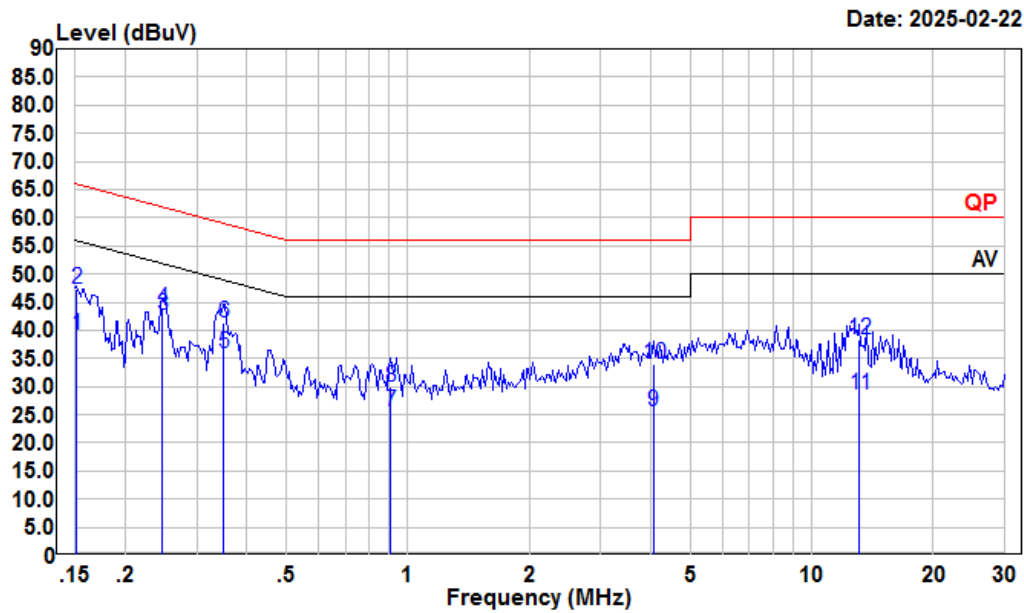
Project : 2501Q31691E-RF

tester : Macy.shi Note:Transmitting

Setting : RBW:9kHz VBW:Auto SWT:Auto

	Freq	Read Level	LISN Level	LISN Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.158	16.61	36.87	10.14	10.12	55.56	-18.69	Average
2	0.158	24.35	44.61	10.14	10.12	65.56	-20.95	QP
3	0.249	21.88	42.00	10.04	10.08	51.78	-9.78	Average
4	0.249	23.77	43.89	10.04	10.08	61.78	-17.89	QP
5	0.339	18.75	39.12	10.25	10.12	49.22	-10.10	Average
6	0.339	22.40	42.77	10.25	10.12	59.22	-16.45	QP
7	0.564	6.72	27.42	10.57	10.13	46.00	-18.58	Average
8	0.564	9.69	30.39	10.57	10.13	56.00	-25.61	QP
9	4.952	5.94	26.35	10.23	10.18	46.00	-19.65	Average
10	4.952	13.03	33.44	10.23	10.18	56.00	-22.56	QP
11	8.869	6.27	26.87	10.40	10.20	50.00	-23.13	Average
12	8.869	16.29	36.89	10.40	10.20	60.00	-23.11	QP

AC 120V 60 Hz, Neutral



Condition: Neutral

Project : 2501Q31691E-RF

tester : Macy.shi Note:Transmitting

Setting : RBW:9kHz

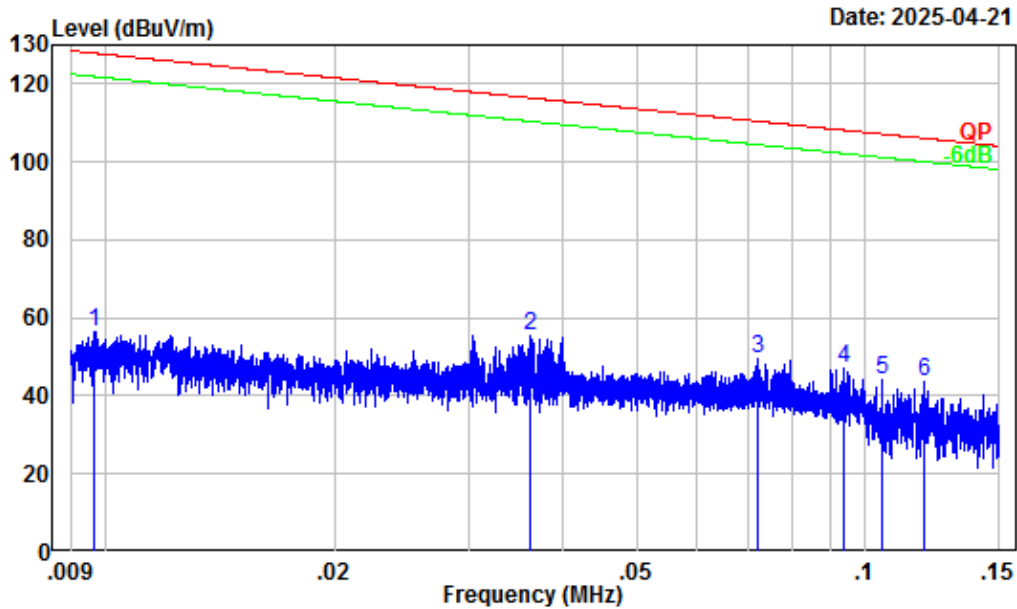
		Read		LISN	Cable	Limit	Over	
	Freq	Level	Level	Factor	Loss	Line	Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.152	18.82	39.24	10.29	10.13	55.91	-16.67	Average
2	0.152	26.81	47.23	10.29	10.13	65.91	-18.68	QP
3	0.247	22.46	42.75	10.21	10.08	51.86	-9.11	Average
4	0.247	23.47	43.76	10.21	10.08	61.86	-18.10	QP
5	0.350	15.49	36.02	10.41	10.12	48.96	-12.94	Average
6	0.350	20.86	41.39	10.41	10.12	58.96	-17.57	QP
7	0.909	4.85	25.60	10.65	10.10	46.00	-20.40	Average
8	0.909	9.27	30.02	10.65	10.10	56.00	-25.98	QP
9	4.049	5.28	25.60	10.11	10.21	46.00	-20.40	Average
10	4.049	13.65	33.97	10.11	10.21	56.00	-22.03	QP
11	13.127	8.23	28.65	10.20	10.22	50.00	-21.35	Average
12	13.127	18.06	38.48	10.20	10.22	60.00	-21.52	QP

Undesirable Emission

Temperature (°C)	24.5&22.8	Relative Humidity (%)	43.2&47
ATM Pressure (kPa):	101.1&100.2	Test engineer:	Alex Yan & Visen.Wu
Test date:	Below 1GHz: 2025.4.21 Above 1GHz: 2025.2.19~2025.2.26		
EUT operation mode:	Transmitting		
Note:	1. For the radiated spurious emission below 30MHz, only the worst case (parallel) was recorded. 2. When the test result of peak was less than the limit of QP/Average more than 6dB, just peak value were recorded.		

Below 1GHz:**For Module YL43752, ANT0** (Maximum output power mode, 802.11ac40 5230MHz)

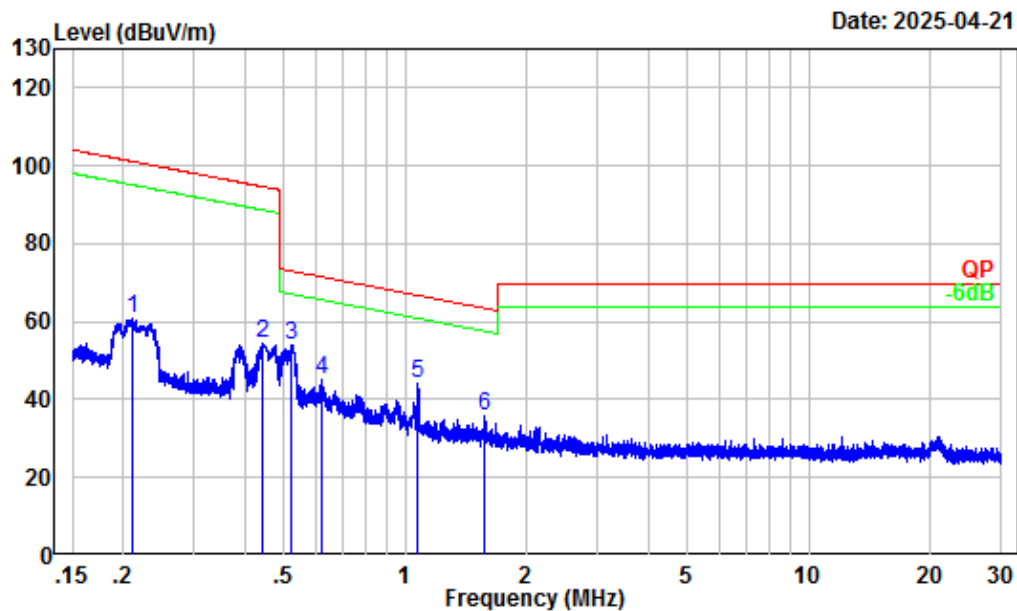
9kHz-150kHz



Site : Chamber A
Condition : 3m
Project Number : 2501Q31691E-RF
Test Mode : 5G WIFI Transmitting
Detector: Peak RBW/VBW: 0.3/1kHz
Tester : Alex Yan

	Freq	Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB/m	dBuV	dBUV/m	dBUV/m	dB	
1	0.01	32.36	24.08	56.44	127.88	-71.44	Peak
2	0.04	27.86	27.80	55.66	116.45	-60.79	Peak
3	0.07	24.19	25.33	49.52	110.45	-60.93	Peak
4	0.09	22.43	24.86	47.29	108.16	-60.87	Peak
5	0.11	21.69	22.30	43.99	107.16	-63.17	Peak
6	0.12	20.84	22.99	43.83	106.05	-62.22	Peak

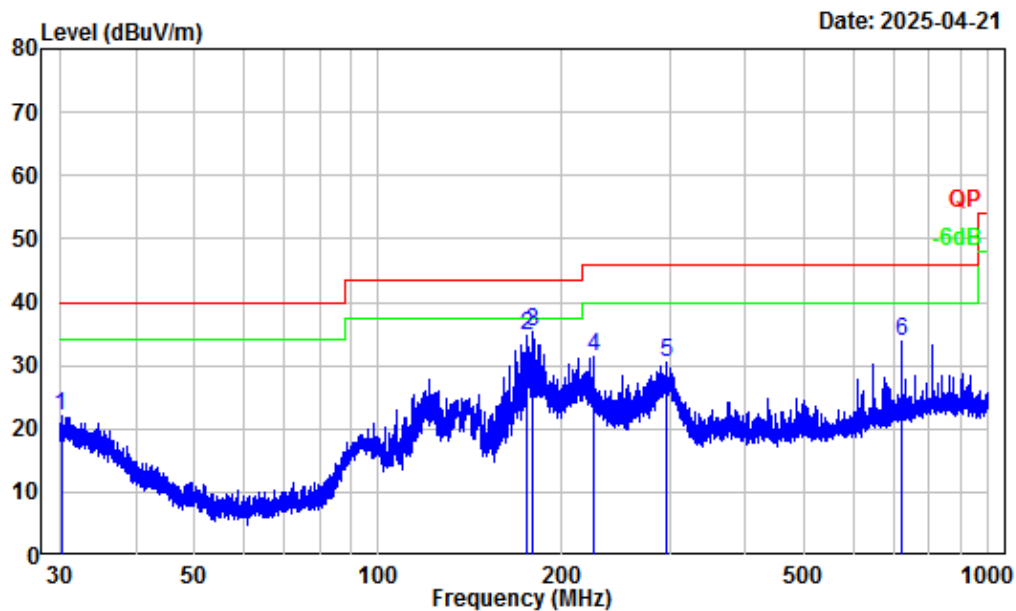
150kHz-30MHz



Site : Chamber A
Condition : 3m
Project Number : 2501Q31691E-RF
Test Mode : 5G WIFI Transmitting
Detector: Peak RBW/VBW: 10/30kHz
Tester : Alex Yan

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.21	15.49	45.27	60.76	101.14	-40.38	Peak
2	0.45	7.44	46.88	54.32	94.63	-40.31	Peak
3	0.52	6.09	47.77	53.86	73.19	-19.33	Peak
4	0.62	4.92	40.36	45.28	71.71	-26.43	Peak
5	1.08	0.99	43.10	44.09	66.83	-22.74	Peak
6	1.58	-0.41	36.09	35.68	63.44	-27.76	Peak

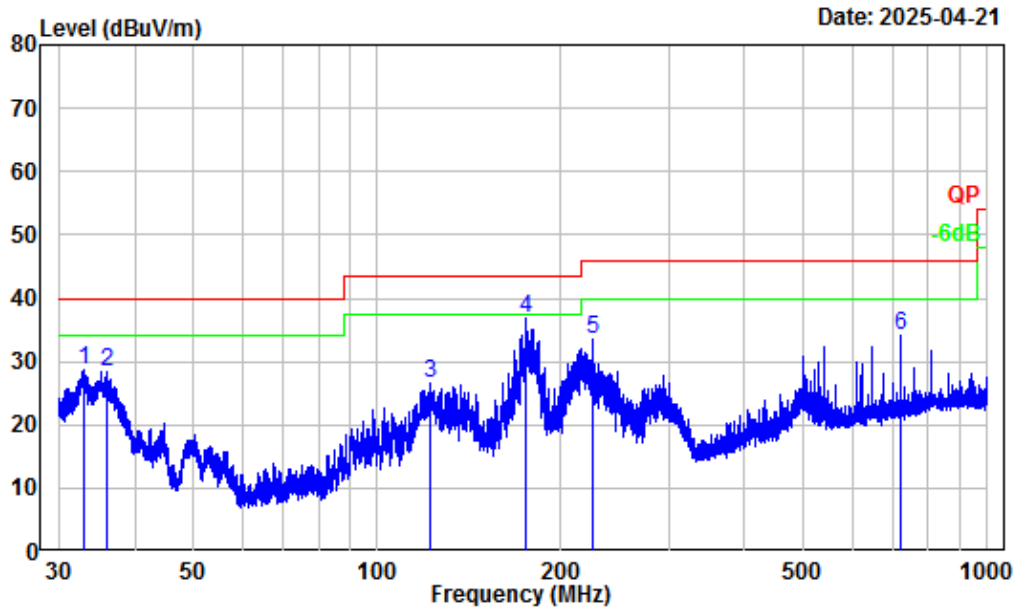
30MHz-1GHz_Horizontal



Site : Chamber A
Condition : 3m Horizontal
Project Number : 2501Q31691E-RF
Test Mode : 5G WIFI Transmitting
Detector: Peak RBW/VBW: 100/300kHz
Tester : Alex Yan

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	30.17	-6.05	28.02	21.97	40.00	-18.03	Peak
2	175.57	-13.43	48.29	34.86	43.50	-8.64	Peak
3	179.54	-13.65	48.90	35.25	43.50	-8.25	Peak
4	225.01	-14.07	45.39	31.32	46.00	-14.68	Peak
5	296.96	-11.21	41.79	30.58	46.00	-15.42	Peak
6	720.15	-3.20	36.89	33.69	46.00	-12.31	Peak

30MHz-1GHz_Vertical

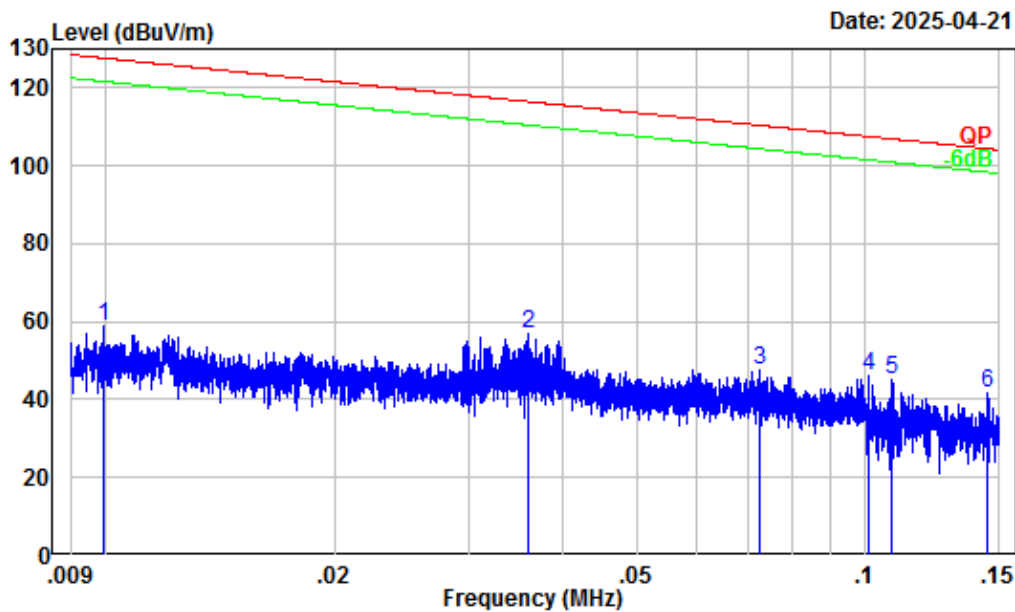


Site : Chamber A
Condition : 3m Vertical
Project Number : 2501Q31691E-RF
Test Mode : 5G WIFI Transmitting
Detector: Peak RBW/VBW: 100/300kHz
Tester : Alex Yan

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	33.08	-7.64	36.45	28.81	40.00	-11.19	Peak
2	35.97	-9.46	37.81	28.35	40.00	-11.65	Peak
3	121.66	-11.28	37.98	26.70	43.50	-16.80	Peak
4	175.57	-13.43	50.11	36.68	43.50	-6.82	Peak
5	225.01	-14.07	47.72	33.65	46.00	-12.35	Peak
6	720.15	-3.20	37.35	34.15	46.00	-11.85	Peak

For Module YL43752, ANT1 (Maximum output power mode, 802.11ax80 5210MHz)

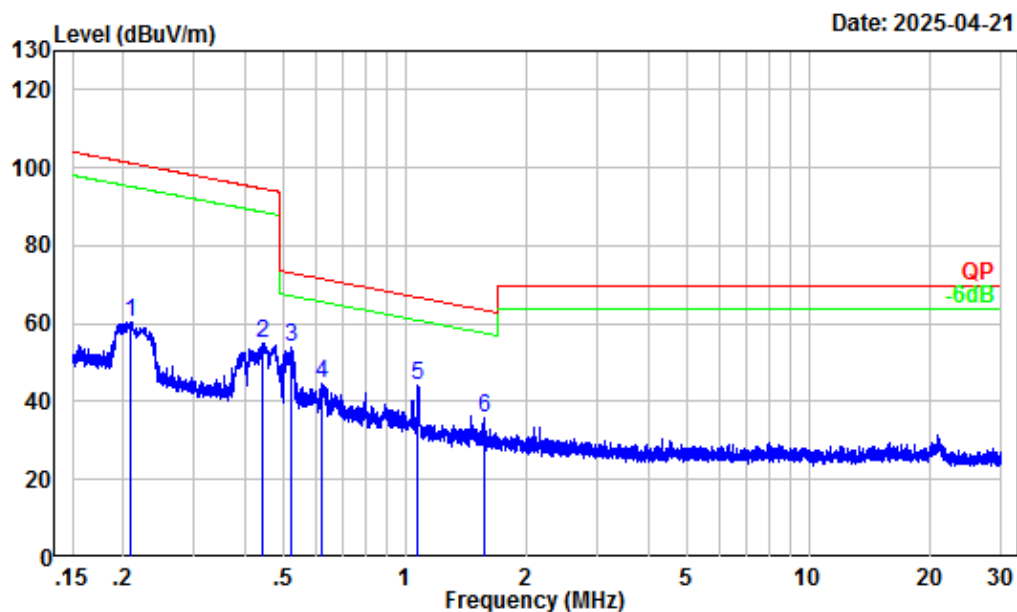
9kHz-150kHz



Site : Chamber A
Condition : 3m
Project Number : 2501Q31691E-RF
Test Mode : 5G WIFI Transmitting
Detector: Peak RBW/VBW: 0.3/1kHz
Tester : Alex Yan

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.01	32.31	26.79	59.10	127.64	-68.54	Peak
2	0.04	27.87	28.92	56.79	116.49	-59.70	Peak
3	0.07	24.15	23.30	47.45	110.39	-62.94	Peak
4	0.10	21.94	24.33	46.27	107.52	-61.25	Peak
5	0.11	21.52	23.83	45.35	106.92	-61.57	Peak
6	0.15	19.34	22.39	41.73	104.38	-62.65	Peak

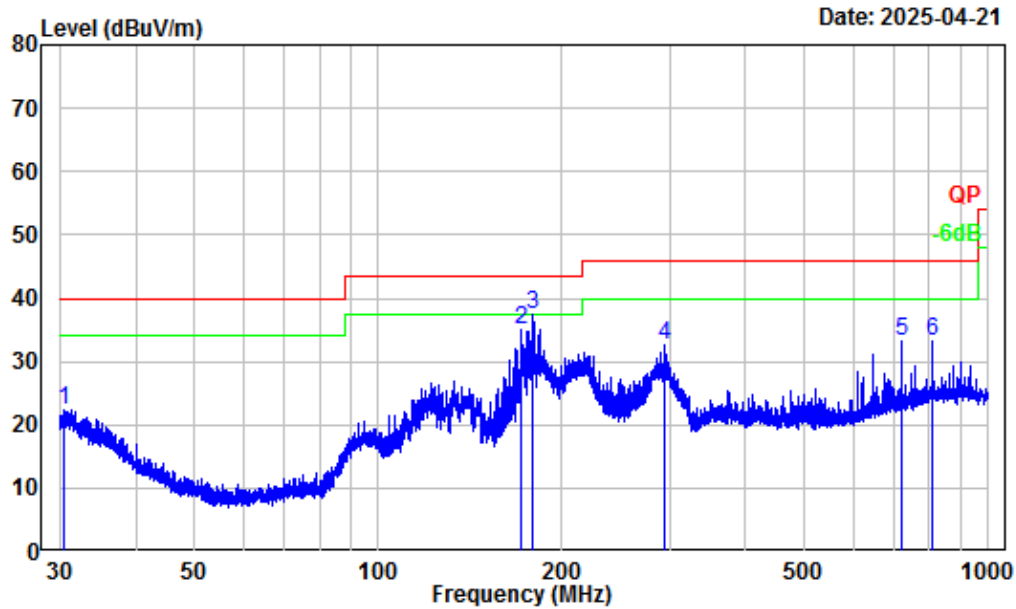
150kHz-30MHz



Site : Chamber A
 Condition : 3m
 Project Number : 2501Q31691E-RF
 Test Mode : 5G WIFI Transmitting
 Detector: Peak RBW/VBW: 10/30kHz
 Tester : Alex Yan

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.21	15.60	44.91	60.51	101.22	-40.71	Peak
2	0.45	7.44	47.44	54.88	94.63	-39.75	Peak
3	0.52	6.12	47.89	54.01	73.23	-19.22	Peak
4	0.62	4.89	39.96	44.85	71.68	-26.83	Peak
5	1.08	0.99	42.97	43.96	66.82	-22.86	Peak
6	1.57	-0.39	36.31	35.92	63.49	-27.57	Peak

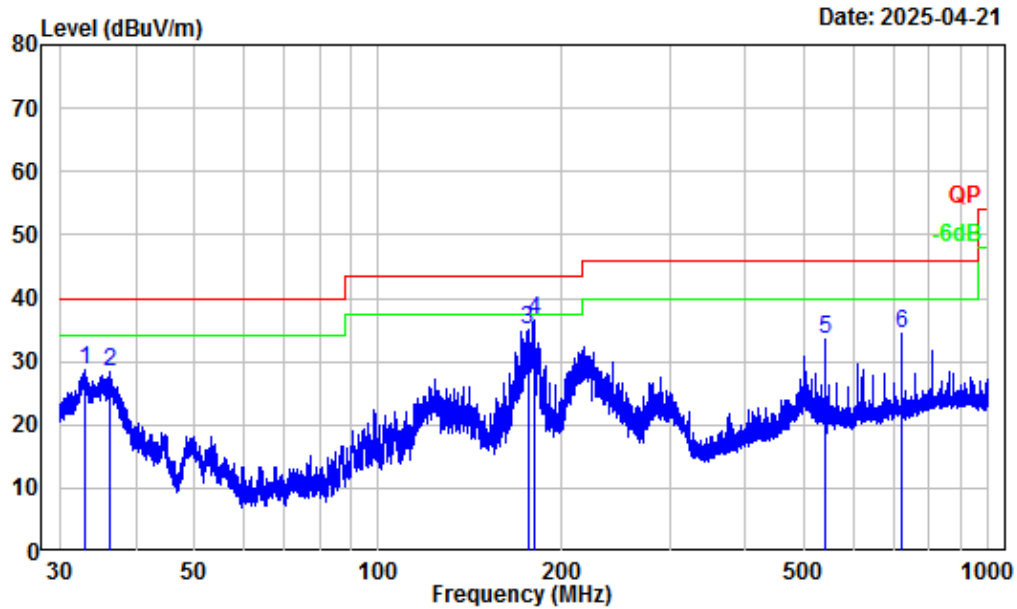
30MHz-1GHz_Horizontal



Site : Chamber A
Condition : 3m Horizontal
Project Number : 2501Q31691E-RF
Test Mode : 5G WIFI Transmitting
Detector: Peak RBW/VBW: 100/300kHz
Tester : Alex Yan

	Freq Factor		Read	Limit	Over	Remark
	MHz	dB/m	Level	Line	Limit	
			dBuV	dBuV/m	dBuV/m	dB
1	30.57	-6.26	28.59	22.33	40.00	-17.67 Peak
2	171.77	-13.19	48.25	35.06	43.50	-8.44 Peak
3	179.54	-13.65	50.99	37.34	43.50	-6.16 Peak
4	294.50	-11.21	43.81	32.60	46.00	-13.40 Peak
5	720.15	-3.20	36.51	33.31	46.00	-12.69 Peak
6	810.27	-2.03	35.25	33.22	46.00	-12.78 Peak

30MHz-1GHz_Vertical

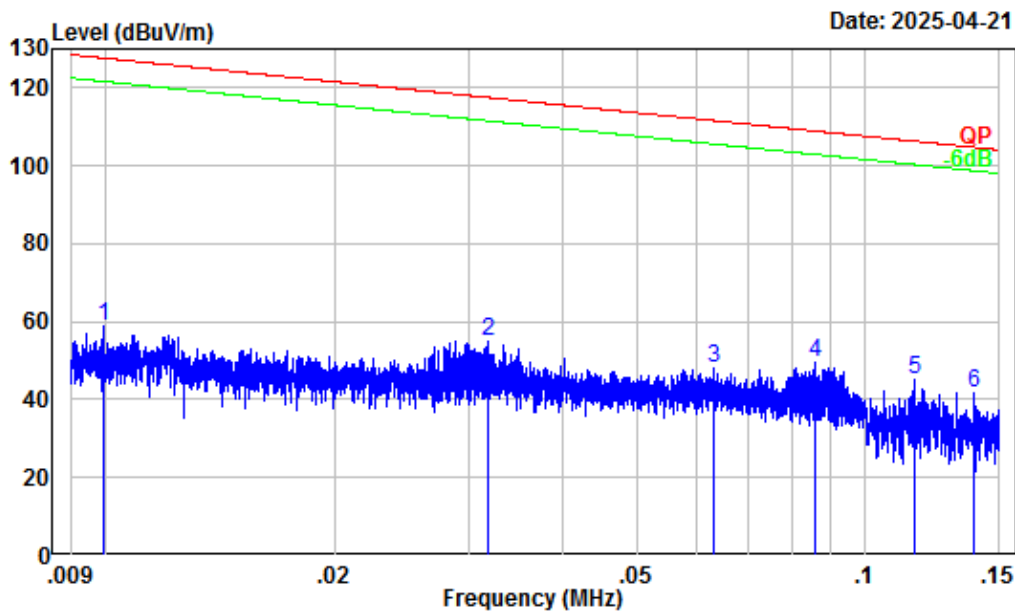


Site : Chamber A
Condition : 3m Vertical
Project Number : 2501Q31691E-RF
Test Mode : 5G WIFI Transmitting
Detector: Peak RBW/VBW: 100/300kHz
Tester : Alex Yan

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	33.11	-7.66	36.22	28.56	40.00	-11.44	Peak
2	36.29	-9.71	38.16	28.45	40.00	-11.55	Peak
3	175.73	-13.44	48.60	35.16	43.50	-8.34	Peak
4	180.02	-13.65	50.27	36.62	43.50	-6.88	Peak
5	540.19	-5.62	38.98	33.36	46.00	-12.64	Peak
6	720.15	-3.20	37.68	34.48	46.00	-11.52	Peak

For Module YL43456, ANT2 (Maximum output power mode, 802.11a 5200MHz)

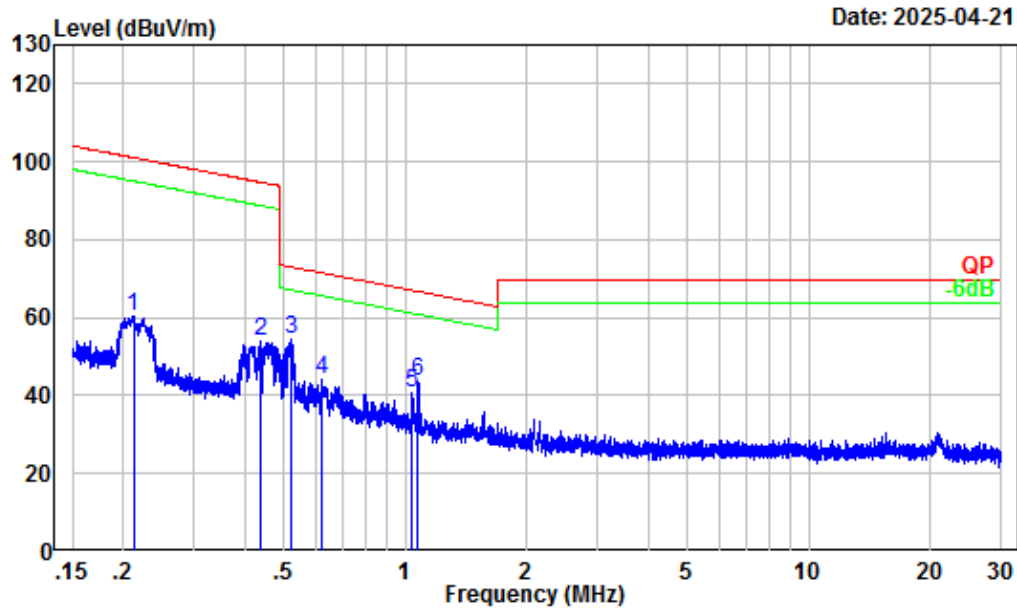
9kHz-150kHz



Site : Chamber A
Condition : 3m
Project Number : 2501Q31691E-RF
Test Mode : 5G WIFI Transmitting
Detector: Peak RBW/VBW: 0.3/1kHz
Tester : Alex Yan

	Freq	Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.01	32.31	26.79	59.10	127.64	-68.54	Peak
2	0.03	28.30	26.51	54.81	117.53	-62.72	Peak
3	0.06	25.07	23.06	48.13	111.58	-63.45	Peak
4	0.09	22.97	26.48	49.45	108.91	-59.46	Peak
5	0.12	21.05	24.00	45.05	106.30	-61.25	Peak
6	0.14	19.69	21.96	41.65	104.73	-63.08	Peak

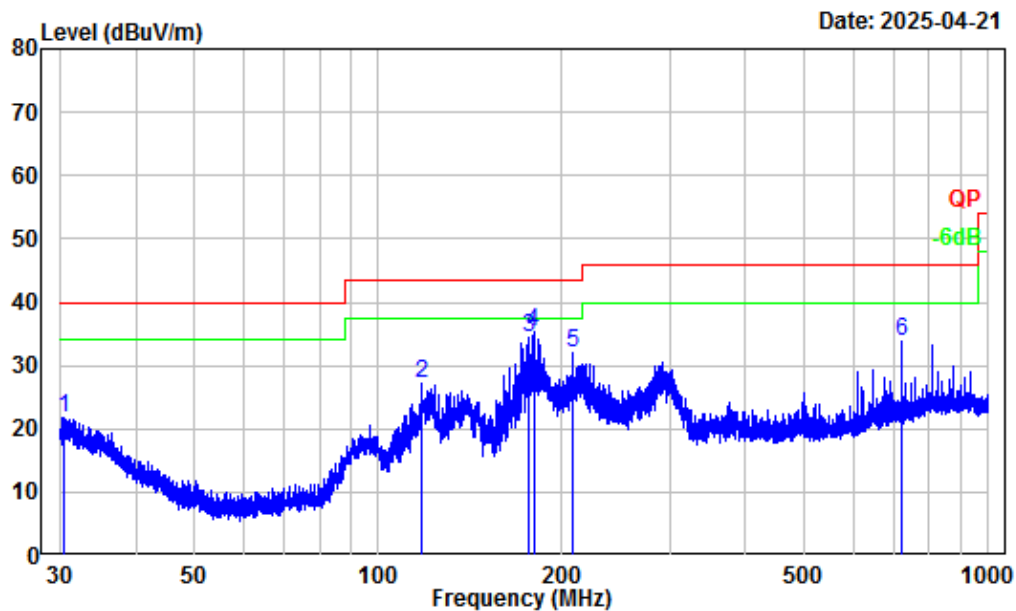
150kHz-30MHz



Site : Chamber A
Condition : 3m
Project Number : 2501Q31691E-RF
Test Mode : 5G WIFI Transmitting
Detector: Peak RBW/VBW: 10/30kHz
Tester : Alex Yan

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.21	15.38	44.93	60.31	101.07	-40.76	Peak
2	0.44	7.58	46.33	53.91	94.78	-40.87	Peak
3	0.52	6.13	48.23	54.36	73.24	-18.88	Peak
4	0.62	4.88	39.04	43.92	71.67	-27.75	Peak
5	1.04	1.09	39.59	40.68	67.12	-26.44	Peak
6	1.08	0.99	42.67	43.66	66.82	-23.16	Peak

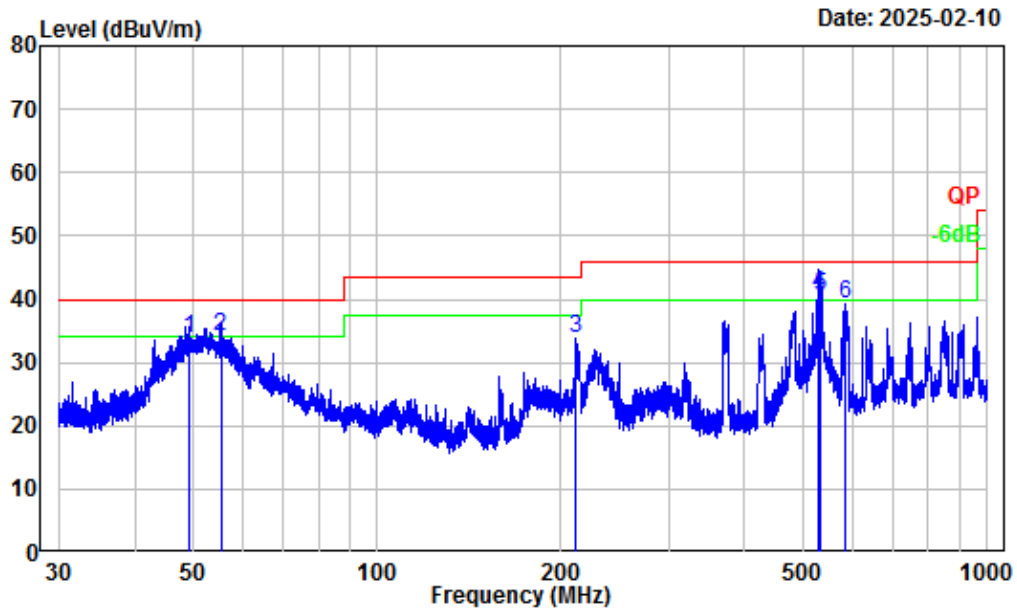
30MHz-1GHz_Horizontal



Site : Chamber A
Condition : 3m Horizontal
Project Number : 2501Q31691E-RF
Test Mode : 5G WIFI Transmitting
Detector: Peak RBW/VBW: 100/300kHz
Tester : Alex Yan

	Freq Factor		Read	Limit	Over	Remark
	MHz	dB/m	Level	Level	Line	
			dBuV	dBuV/m	dBuV/m	dB
1	30.49	-6.21	28.07	21.86	40.00	-18.14 Peak
2	117.62	-11.72	38.75	27.03	43.50	-16.47 Peak
3	175.81	-13.45	47.89	34.44	43.50	-9.06 Peak
4	179.62	-13.65	48.84	35.19	43.50	-8.31 Peak
5	208.49	-13.85	45.76	31.91	43.50	-11.59 Peak
6	720.15	-3.20	37.09	33.89	46.00	-12.11 Peak

30MHz-1GHz_Vertical



Site : Chamber A
Condition : 3m Vertical
Project Number : 2401Z103823E-RF
Test Mode : Transmitting
Detector: Peak RBW/VBW: 100/300kHz
Tester : Jack Liu

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	49.23	-17.78	51.71	33.93	40.00	-6.07	QP
2	55.34	-18.32	52.40	34.08	40.00	-5.92	QP
3	210.88	-14.06	48.02	33.96	43.50	-9.54	Peak
4	529.40	-5.80	46.56	40.76	46.00	-5.24	QP
5	532.66	-5.75	46.15	40.40	46.00	-5.60	QP
6	586.07	-5.26	44.46	39.20	46.00	-6.80	Peak

Above 1GHz:**For module YL43752, ANT0****5150-5250 MHz**

Frequency (MHz)	Reading (dBμV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11a							
Low Channel							
5150	65.92	PK	H	-7.46	58.46	74	-15.54
5150	52.70	AV	H	-7.46	45.24	54	-8.76
5150	65.84	PK	V	-7.46	58.38	74	-15.62
5150	52.91	AV	V	-7.46	45.45	54	-8.55
10360.00	50.89	PK	H	2.53	53.42	68.20	-14.78
10360.00	51.19	PK	V	2.53	53.72	68.20	-14.48
Middle Channel							
10400.00	50.80	PK	H	2.55	53.35	68.20	-14.85
10400.00	50.92	PK	V	2.55	53.47	68.20	-14.73
High Channel							
5350	64.90	PK	H	-6.74	58.16	74	-15.84
5350	51.97	AV	H	-6.74	45.23	54	-8.77
5350	65.19	PK	V	-6.74	58.45	74	-15.55
5350	52.08	AV	V	-6.74	45.34	54	-8.66
10480.00	51.44	PK	H	2.25	53.69	68.20	-14.51
10480.00	51.71	PK	V	2.25	53.96	68.20	-14.24
802.11ac20							
Low Channel							
5150	65.94	PK	H	-7.46	58.48	74	-15.52
5150	53.07	AV	H	-7.46	45.61	54	-8.39
5150	66.17	PK	V	-7.46	58.71	74	-15.29
5150	53.14	AV	V	-7.46	45.68	54	-8.32
10360.00	50.92	PK	H	2.53	53.45	68.20	-14.75
10360.00	51.15	PK	V	2.53	53.68	68.20	-14.52
Middle Channel							
10400.00	50.50	PK	H	2.55	53.05	68.20	-15.15
10400.00	50.72	PK	V	2.55	53.27	68.20	-14.93
High Channel							
5350	65.60	PK	H	-6.74	58.86	74	-15.14
5350	51.90	AV	H	-6.74	45.16	54	-8.84
5350	65.22	PK	V	-6.74	58.48	74	-15.52
5350	52.70	AV	V	-6.74	45.96	54	-8.04
10480.00	50.78	PK	H	2.25	53.03	68.20	-15.17
10480.00	51.44	PK	V	2.25	53.69	68.20	-14.51

Frequency (MHz)	Reading (dBμV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11ac40							
Low Channel							
5150	71.75	PK	H	-7.46	64.29	74	-9.71
5150	54.47	AV	H	-7.46	47.01	54	-6.99
5150	68.26	PK	V	-7.46	60.80	74	-13.20
5150	52.83	AV	V	-7.46	45.37	54	-8.63
10380.00	50.82	PK	H	2.54	53.36	68.20	-14.84
10380.00	50.86	PK	V	2.54	53.4	68.20	-14.80
High Channel							
5350	65.38	PK	H	-6.74	58.64	74	-15.36
5350	52.06	AV	H	-6.74	45.32	54	-8.68
5350	65.53	PK	V	-6.74	58.79	74	-15.21
5350	51.92	AV	V	-6.74	45.18	54	-8.82
10460.00	51.19	PK	H	2.32	53.51	68.20	-14.69
10460.00	51.47	PK	V	2.32	53.79	68.20	-14.41
802.11ac80							
Middle Channel							
5150	74.18	PK	H	-7.46	66.72	74	-7.28
5150	57.19	AV	H	-7.46	49.73	54	-4.27
5150	68.53	PK	V	-7.46	61.07	74	-12.93
5150	53.34	AV	V	-7.46	45.88	54	-8.12
5350	65.72	PK	H	-6.74	58.98	74	-15.02
5350	52.69	AV	H	-6.74	45.95	54	-8.05
5350	65.36	PK	V	-6.74	58.62	74	-15.38
5350	52.46	AV	V	-6.74	45.72	54	-8.28
10420.00	50.99	PK	H	2.48	53.47	68.20	-14.73
10420.00	51.39	PK	V	2.48	53.87	68.20	-14.33

Frequency (MHz)	Reading (dBμV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11ax20							
Low Channel							
5150	65.84	PK	H	-7.46	58.38	74	-15.62
5150	52.93	AV	H	-7.46	45.47	54	-8.53
5150	66.15	PK	V	-7.46	58.69	74	-15.31
5150	53.28	AV	V	-7.46	45.82	54	-8.18
10360.00	50.82	PK	H	2.53	53.35	68.20	-14.85
10360.00	50.94	PK	V	2.53	53.47	68.20	-14.73
Middle Channel							
10400.00	50.63	PK	H	2.55	53.18	68.20	-15.02
10400.00	50.90	PK	V	2.55	53.45	68.20	-14.75
High Channel							
5350	65.08	PK	H	-6.74	58.34	74	-15.66
5350	52.02	AV	H	-6.74	45.28	54	-8.72
5350	65.00	PK	V	-6.74	58.26	74	-15.74
5350	52.17	AV	V	-6.74	45.43	54	-8.57
10480.00	51.40	PK	H	2.25	53.65	68.20	-14.55
10480.00	50.89	PK	V	2.25	53.14	68.20	-15.06
802.11ax40							
Low Channel							
5150	69.95	PK	H	-7.46	62.49	74	-11.51
5150	53.08	AV	H	-7.46	45.62	54	-8.38
5150	65.68	PK	V	-7.46	58.22	74	-15.78
5150	52.87	AV	V	-7.46	45.41	54	-8.59
10380.00	50.94	PK	H	2.54	53.48	68.20	-14.72
10380.00	50.69	PK	V	2.54	53.23	68.20	-14.97
High Channel							
5350	66.10	PK	H	-6.74	59.36	74	-14.64
5350	52.86	AV	H	-6.74	46.12	54	-7.88
5350	65.32	PK	V	-6.74	58.58	74	-15.42
5350	52.46	AV	V	-6.74	45.72	54	-8.28
10460.00	51.11	PK	H	2.32	53.43	68.20	-14.77
10460.00	51.54	PK	V	2.32	53.86	68.20	-14.34

Frequency (MHz)	Reading (dB μ V)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
802.11ax80							
Middle Channel							
5150	75.84	PK	H	-7.46	68.38	74	-5.62
5150	57.69	AV	H	-7.46	50.23	54	-3.77
5150	71.75	PK	V	-7.46	64.29	74	-9.71
5150	54.04	AV	V	-7.46	46.58	54	-7.42
5350	65.55	PK	H	-6.74	58.81	74	-15.19
5350	51.99	AV	H	-6.74	45.25	54	-8.75
5350	65.52	PK	V	-6.74	58.78	74	-15.22
5350	52.30	AV	V	-6.74	45.56	54	-8.44
10420.00	50.96	PK	H	2.48	53.44	68.20	-14.76
10420.00	50.87	PK	V	2.48	53.35	68.20	-14.85

5725-5850MHz

Frequency (MHz)	Reading (dBμV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11a							
Low Channel							
5725	74.83	PK	H	-5.48	69.35	122.2	-52.85
5725	75.22	PK	V	-5.48	69.74	122.2	-52.46
5720	66.78	PK	H	-5.53	61.25	110.8	-49.55
5720	66.89	PK	V	-5.53	61.36	110.8	-49.44
5700	67.45	PK	H	-5.71	61.74	105.2	-43.46
5700	66.96	PK	V	-5.71	61.25	105.2	-43.95
5650	66.18	PK	H	-5.86	60.32	68.2	-7.88
5650	66.6	PK	V	-5.86	60.74	68.2	-7.46
11490.00	51.91	PK	H	3.54	55.45	74.00	-18.55
11490.00	39.52	AV	H	3.54	43.06	54.00	-10.94
11490.00	51.87	PK	V	3.54	55.41	74.00	-18.59
11490.00	39.70	AV	V	3.54	43.24	54.00	-10.76
Middle Channel							
11570.00	51.93	PK	H	3.3	55.23	74.00	-18.77
11570.00	40.53	AV	H	3.3	43.83	54.00	-10.17
11570.00	52.31	PK	V	3.3	55.61	74.00	-18.39
11570.00	40.05	AV	V	3.3	43.35	54.00	-10.65
High Channel							
5850	67.63	PK	H	-4.68	62.95	122.2	-59.25
5850	67.51	PK	V	-4.68	62.83	122.2	-59.37
5855	66.98	PK	H	-4.66	62.32	110.8	-48.48
5855	67.56	PK	V	-4.66	62.9	110.8	-47.9
5875	67.03	PK	H	-4.57	62.46	105.2	-42.74
5875	66.59	PK	V	-4.57	62.02	105.2	-43.18
5925	66.65	PK	H	-4.45	62.2	68.2	-6
5925	66.46	PK	V	-4.45	62.01	68.2	-6.19
11650.00	51.81	PK	H	3.42	55.23	74.00	-18.77
11650.00	39.70	AV	H	3.42	43.12	54.00	-10.88
11650.00	51.82	PK	V	3.42	55.24	74.00	-18.76
11650.00	39.81	AV	V	3.42	43.23	54.00	-10.77

Frequency (MHz)	Reading (dBμV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11ac20							
Low Channel							
5725	74.83	PK	H	-5.48	69.35	122.2	-52.85
5725	74.84	PK	V	-5.48	69.36	122.2	-52.84
5720	66.66	PK	H	-5.53	61.13	110.8	-49.67
5720	67.18	PK	V	-5.53	61.65	110.8	-49.15
5700	67.15	PK	H	-5.71	61.44	105.2	-43.76
5700	67.06	PK	V	-5.71	61.35	105.2	-43.85
5650	66.34	PK	H	-5.86	60.48	68.2	-7.72
5650	66.17	PK	V	-5.86	60.31	68.2	-7.89
11490.00	51.58	PK	H	3.54	55.12	74.00	-18.88
11490.00	39.77	AV	H	3.54	43.31	54.00	-10.69
11490.00	51.91	PK	V	3.54	55.45	74.00	-18.55
11490.00	39.81	AV	V	3.54	43.35	54.00	-10.65
Middle Channel							
11570.00	51.87	PK	H	3.3	55.17	74.00	-18.83
11570.00	40.54	AV	H	3.3	43.84	54.00	-10.16
11570.00	52.06	PK	V	3.3	55.36	74.00	-18.64
11570.00	40.31	AV	V	3.3	43.61	54.00	-10.39
High Channel							
5850	67.16	PK	H	-4.68	62.48	122.2	-59.72
5850	66.99	PK	V	-4.68	62.31	122.2	-59.89
5855	67.11	PK	H	-4.66	62.45	110.8	-48.35
5855	67.49	PK	V	-4.66	62.83	110.8	-47.97
5875	67.05	PK	H	-4.57	62.48	105.2	-42.72
5875	66.91	PK	V	-4.57	62.34	105.2	-42.86
5925	66.98	PK	H	-4.45	62.53	68.2	-5.67
5925	66.91	PK	V	-4.45	62.46	68.2	-5.74
11650.00	51.76	PK	H	3.42	55.18	74.00	-18.82
11650.00	39.71	AV	H	3.42	43.13	54.00	-10.87
11650.00	52.00	PK	V	3.42	55.42	74.00	-18.58
11650.00	39.80	AV	V	3.42	43.22	54.00	-10.78

Frequency (MHz)	Reading (dBμV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11ac40							
Low Channel							
5725	78.67	PK	H	-5.48	73.19	122.2	-49.01
5725	76.87	PK	V	-5.48	71.39	122.2	-50.81
5720	78.03	PK	H	-5.53	72.5	110.8	-38.3
5720	75.57	PK	V	-5.53	70.04	110.8	-40.76
5700	67.69	PK	H	-5.71	61.98	105.2	-43.22
5700	67.58	PK	V	-5.71	61.87	105.2	-43.33
5650	66.68	PK	H	-5.86	60.82	68.2	-7.38
5650	66.65	PK	V	-5.86	60.79	68.2	-7.41
11510.00	51.89	PK	H	3.53	55.42	74.00	-18.58
11510.00	39.96	AV	H	3.53	43.49	54.00	-10.51
11510.00	51.58	PK	V	3.53	55.11	74.00	-18.89
11510.00	39.61	AV	V	3.53	43.14	54.00	-10.86
High Channel							
5850	67.23	PK	H	-4.68	62.55	122.2	-59.65
5850	67.32	PK	V	-4.68	62.64	122.2	-59.56
5855	67.12	PK	H	-4.66	62.46	110.8	-48.34
5855	67.14	PK	V	-4.66	62.48	110.8	-48.32
5875	67.41	PK	H	-4.57	62.84	105.2	-42.36
5875	67.41	PK	V	-4.57	62.84	105.2	-42.36
5925	66.75	PK	H	-4.45	62.3	68.2	-5.9
5925	66.72	PK	V	-4.45	62.27	68.2	-5.93
11590.00	52.69	PK	H	3.21	55.90	74.00	-18.10
11590.00	40.71	AV	H	3.21	43.92	54.00	-10.08
11590.00	52.55	PK	V	3.21	55.76	74.00	-18.24
11590.00	40.63	AV	V	3.21	43.84	54.00	-10.16

Frequency (MHz)	Reading (dB μ V)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
802.11ac80							
Middle Channel							
5725	86.69	PK	H	-5.48	81.21	122.2	-40.99
5725	83.57	PK	V	-5.48	78.09	122.2	-44.11
5720	86.13	PK	H	-5.53	80.6	110.8	-30.2
5720	82.91	PK	V	-5.53	77.38	110.8	-33.42
5700	82.59	PK	H	-5.71	76.88	105.2	-28.32
5700	81.61	PK	V	-5.71	75.9	105.2	-29.3
5650	71.65	PK	H	-5.86	65.79	68.2	-2.41
5650	70.75	PK	V	-5.86	64.89	68.2	-3.31
5850	83.23	PK	H	-4.68	78.55	122.2	-43.65
5850	79.13	PK	V	-4.68	74.45	122.2	-47.75
5855	82.79	PK	H	-4.66	78.13	110.8	-32.67
5855	77.76	PK	V	-4.66	73.1	110.8	-37.7
5875	77.12	PK	H	-4.57	72.55	105.2	-32.65
5875	73.73	PK	V	-4.57	69.16	105.2	-36.04
5925	68.27	PK	H	-4.45	63.82	68.2	-4.38
5925	67.42	PK	V	-4.45	62.97	68.2	-5.23
11550.00	52.12	PK	H	3.37	55.49	74.00	-18.51
11550.00	40.43	AV	H	3.37	43.80	54.00	-10.20
11550.00	52.44	PK	V	3.37	55.81	74.00	-18.19
11550.00	40.19	AV	V	3.37	43.56	54.00	-10.44

Frequency (MHz)	Reading (dBμV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11ax20							
Low Channel							
5725	68.67	PK	H	-5.48	63.19	122.2	-59.01
5725	68.97	PK	V	-5.48	63.49	122.2	-58.71
5720	67.69	PK	H	-5.53	62.16	110.8	-48.64
5720	67.78	PK	V	-5.53	62.25	110.8	-48.55
5700	68.43	PK	H	-5.71	62.72	105.2	-42.48
5700	68.37	PK	V	-5.71	62.66	105.2	-42.54
5650	66.43	PK	H	-5.86	60.57	68.2	-7.63
5650	66.85	PK	V	-5.86	60.99	68.2	-7.21
11490.00	51.58	PK	H	3.54	55.12	74.00	-18.88
11490.00	39.48	AV	H	3.54	43.02	54.00	-10.98
11490.00	52.25	PK	V	3.54	55.79	74.00	-18.21
11490.00	39.91	AV	V	3.54	43.45	54.00	-10.55
Middle Channel							
11570.00	52.63	PK	H	3.3	55.93	74.00	-18.07
11570.00	40.51	AV	H	3.3	43.81	54.00	-10.19
11570.00	51.73	PK	V	3.3	55.03	74.00	-18.97
11570.00	40.44	AV	V	3.3	43.74	54.00	-10.26
High Channel							
5850	68.63	PK	H	-4.68	63.95	122.2	-58.25
5850	68.01	PK	V	-4.68	63.33	122.2	-58.87
5855	66.76	PK	H	-4.66	62.1	110.8	-48.7
5855	67.04	PK	V	-4.66	62.38	110.8	-48.42
5875	67.35	PK	H	-4.57	62.78	105.2	-42.42
5875	67.41	PK	V	-4.57	62.84	105.2	-42.36
5925	66.64	PK	H	-4.45	62.19	68.2	-6.01
5925	66.65	PK	V	-4.45	62.2	68.2	-6
11650.00	52.55	PK	H	3.42	55.97	74.00	-18.03
11650.00	40.00	AV	H	3.42	43.42	54.00	-10.58
11650.00	51.82	PK	V	3.42	55.24	74.00	-18.76
11650.00	39.77	AV	V	3.42	43.19	54.00	-10.81

Frequency (MHz)	Reading (dBμV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11ax40							
Low Channel							
5725	79.67	PK	H	-5.48	74.19	122.2	-48.01
5725	77.78	PK	V	-5.48	72.3	122.2	-49.9
5720	78.59	PK	H	-5.53	73.06	110.8	-37.74
5720	76.78	PK	V	-5.53	71.25	110.8	-39.55
5700	67.84	PK	H	-5.71	62.13	105.2	-43.07
5700	68.45	PK	V	-5.71	62.74	105.2	-42.46
5650	66.22	PK	H	-5.86	60.36	68.2	-7.84
5650	65.9	PK	V	-5.86	60.04	68.2	-8.16
11510.00	51.89	PK	H	3.53	55.42	74.00	-18.58
11510.00	40.21	AV	H	3.53	43.74	54.00	-10.26
11510.00	52.44	PK	V	3.53	55.97	74.00	-18.03
11510.00	39.79	AV	V	3.53	43.32	54.00	-10.68
High Channel							
5850	67.74	PK	H	-4.68	63.06	122.2	-59.14
5850	68.63	PK	V	-4.68	63.95	122.2	-58.25
5855	68.60	PK	H	-4.66	63.94	110.8	-46.86
5855	67.72	PK	V	-4.66	63.06	110.8	-47.74
5875	66.99	PK	H	-4.57	62.42	105.2	-42.78
5875	66.87	PK	V	-4.57	62.3	105.2	-42.9
5925	66.77	PK	H	-4.45	62.32	68.2	-5.88
5925	67.41	PK	V	-4.45	62.96	68.2	-5.24
11590.00	52.53	PK	H	3.21	55.74	74.00	-18.26
11590.00	40.70	AV	H	3.21	43.91	54.00	-10.09
11590.00	51.83	PK	V	3.21	55.04	74.00	-18.96
11590.00	40.64	AV	V	3.21	43.85	54.00	-10.15

Frequency (MHz)	Reading (dBμV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11ax80							
Middle Channel							
5725	88.55	PK	H	-5.48	83.07	122.2	-39.13
5725	85.74	PK	V	-5.48	80.26	122.2	-41.94
5720	88.23	PK	H	-5.53	82.7	110.8	-28.1
5720	83.68	PK	V	-5.53	78.15	110.8	-32.65
5700	83.54	PK	H	-5.71	77.83	105.2	-27.37
5700	82.07	PK	V	-5.71	76.36	105.2	-28.84
5650	72.1	PK	H	-5.86	66.24	68.2	-1.96
5650	71.09	PK	V	-5.86	65.23	68.2	-2.97
5850	83.72	PK	H	-4.68	79.04	122.2	-43.16
5850	79.83	PK	V	-4.68	75.15	122.2	-47.05
5855	83.18	PK	H	-4.66	78.52	110.8	-32.28
5855	79.40	PK	V	-4.66	74.74	110.8	-36.06
5875	79.26	PK	H	-4.57	74.69	105.2	-30.51
5875	74.96	PK	V	-4.57	70.39	105.2	-34.81
5925	69.55	PK	H	-4.45	65.1	68.2	-3.1
5925	66.79	PK	V	-4.45	62.34	68.2	-5.86
11550.00	52.02	PK	H	3.37	55.39	74.00	-18.61
11550.00	40.33	AV	H	3.37	43.70	54.00	-10.30
11550.00	52.44	PK	V	3.37	55.81	74.00	-18.19
11550.00	40.42	AV	V	3.37	43.79	54.00	-10.21

For module YL43752, ANT1**5150-5250 MHz**

Frequency (MHz)	Reading (dBμV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11a							
Low Channel							
5150	65.69	PK	H	-7.46	58.23	74	-15.77
5150	52.78	AV	H	-7.46	45.32	54	-8.68
5150	66.42	PK	V	-7.46	58.96	74	-15.04
5150	53.43	AV	V	-7.46	45.97	54	-8.03
10360.00	51.12	PK	H	2.53	53.65	68.20	-14.55
10360.00	50.82	PK	V	2.53	53.35	68.20	-14.85
Middle Channel							
10400.00	50.53	PK	H	2.55	53.08	68.20	-15.12
10400.00	50.76	PK	V	2.55	53.31	68.20	-14.89
High Channel							
5350	64.77	PK	H	-6.74	58.03	74	-15.97
5350	51.84	AV	H	-6.74	45.1	54	-8.90
5350	65.63	PK	V	-6.74	58.89	74	-15.11
5350	51.81	AV	V	-6.74	45.07	54	-8.93
10480.00	51.21	PK	H	2.25	53.46	68.20	-14.74
10480.00	50.84	PK	V	2.25	53.09	68.20	-15.11
802.11ac20							
Low Channel							
5150	66.05	PK	H	-7.46	58.59	74	-15.41
5150	52.95	AV	H	-7.46	45.49	54	-8.51
5150	66.17	PK	V	-7.46	58.71	74	-15.29
5150	53.23	AV	V	-7.46	45.77	54	-8.23
10360.00	51.21	PK	H	2.53	53.74	68.20	-14.46
10360.00	50.52	PK	V	2.53	53.05	68.20	-15.15
Middle Channel							
10400.00	50.61	PK	H	2.55	53.16	68.20	-15.04
10400.00	50.79	PK	V	2.55	53.34	68.20	-14.86
High Channel							
5350	64.91	PK	H	-6.74	58.17	74	-15.83
5350	52.55	AV	H	-6.74	45.81	54	-8.19
5350	64.96	PK	V	-6.74	58.22	74	-15.78
5350	52.57	AV	V	-6.74	45.83	54	-8.17
10480.00	51.51	PK	H	2.25	53.76	68.20	-14.44
10480.00	51.28	PK	V	2.25	53.53	68.20	-14.67

Frequency (MHz)	Reading (dBμV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11ac40							
Low Channel							
5150	72.94	PK	H	-7.46	65.48	74	-8.52
5150	55.84	AV	H	-7.46	48.38	54	-5.62
5150	69.18	PK	V	-7.46	61.72	74	-12.28
5150	52.50	AV	V	-7.46	45.04	54	-8.96
10380.00	50.86	PK	H	2.54	53.4	68.20	-14.80
10380.00	50.84	PK	V	2.54	53.38	68.20	-14.82
High Channel							
5350	64.89	PK	H	-6.74	58.15	74	-15.85
5350	52.57	AV	H	-6.74	45.83	54	-8.17
5350	64.81	PK	V	-6.74	58.07	74	-15.93
5350	52.04	AV	V	-6.74	45.3	54	-8.70
10460.00	51.53	PK	H	2.32	53.85	68.20	-14.35
10460.00	51.03	PK	V	2.32	53.35	68.20	-14.85
802.11ac80							
Middle Channel							
5150	77.26	PK	H	-7.46	69.80	74	-4.20
5150	59.10	AV	H	-7.46	51.64	54	-2.36
5150	71.73	PK	V	-7.46	64.27	74	-9.73
5150	55.31	AV	V	-7.46	47.85	54	-6.15
5350	65.58	PK	H	-6.74	58.84	74	-15.16
5350	52.38	AV	H	-6.74	45.64	54	-8.36
5350	65.53	PK	V	-6.74	58.79	74	-15.21
5350	52.47	AV	V	-6.74	45.73	54	-8.27
10420.00	51.00	PK	H	2.48	53.48	68.20	-14.72
10420.00	51.15	PK	V	2.48	53.63	68.20	-14.57

Frequency (MHz)	Reading (dB μ V)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
802.11ax20							
Low Channel							
5150	65.74	PK	H	-7.46	58.28	74	-15.72
5150	52.77	AV	H	-7.46	45.31	54	-8.69
5150	65.49	PK	V	-7.46	58.03	74	-15.97
5150	53.38	AV	V	-7.46	45.92	54	-8.08
10360.00	50.89	PK	H	2.53	53.42	68.20	-14.78
10360.00	50.48	PK	V	2.53	53.01	68.20	-15.19
Middle Channel							
10400.00	50.94	PK	H	2.55	53.49	68.20	-14.71
10400.00	50.99	PK	V	2.55	53.54	68.20	-14.66
High Channel							
5350	64.87	PK	H	-6.74	58.13	74	-15.87
5350	51.93	AV	H	-6.74	45.19	54	-8.81
5350	65.53	PK	V	-6.74	58.79	74	-15.21
5350	51.77	AV	V	-6.74	45.03	54	-8.97
10480.00	51.21	PK	H	2.25	53.46	68.20	-14.74
10480.00	51.00	PK	V	2.25	53.25	68.20	-14.95
802.11ax40							
Low Channel							
5150	77.46	PK	H	-7.46	70.00	74	-4.00
5150	58.28	AV	H	-7.46	50.82	54	-3.18
5150	72.32	PK	V	-7.46	64.86	74	-9.14
5150	54.39	AV	V	-7.46	46.93	54	-7.07
10380.00	51.10	PK	H	2.54	53.64	68.20	-14.56
10380.00	50.91	PK	V	2.54	53.45	68.20	-14.75
High Channel							
5350	64.77	PK	H	-6.74	58.03	74	-15.97
5350	52.49	AV	H	-6.74	45.75	54	-8.25
5350	64.90	PK	V	-6.74	58.16	74	-15.84
5350	51.77	AV	V	-6.74	45.03	54	-8.97
10460.00	51.04	PK	H	2.32	53.36	68.20	-14.84
10460.00	51.10	PK	V	2.32	53.42	68.20	-14.78

Frequency (MHz)	Reading (dB μ V)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
802.11ax80							
Middle Channel							
5150	76.70	PK	H	-7.46	69.24	74	-4.76
5150	59.37	AV	H	-7.46	51.91	54	-2.09
5150	71.67	PK	V	-7.46	64.21	74	-9.79
5150	54.71	AV	V	-7.46	47.25	54	-6.75
5350	65.02	PK	H	-6.74	58.28	74	-15.72
5350	52.38	AV	H	-6.74	45.64	54	-8.36
5350	65.22	PK	V	-6.74	58.48	74	-15.52
5350	52.13	AV	V	-6.74	45.39	54	-8.61
10420.00	51.21	PK	H	2.48	53.69	68.20	-14.51
10420.00	50.69	PK	V	2.48	53.17	68.20	-15.03

5725-5850MHz

Frequency (MHz)	Reading (dBμV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11a							
Low Channel							
5725	70.98	PK	H	-5.48	65.5	122.2	-56.7
5725	70.05	PK	V	-5.48	64.57	122.2	-57.63
5720	68.13	PK	H	-5.53	62.6	110.8	-48.2
5720	67.57	PK	V	-5.53	62.04	110.8	-48.76
5700	67.90	PK	H	-5.71	62.19	105.2	-43.01
5700	67.93	PK	V	-5.71	62.22	105.2	-42.98
5650	68.68	PK	H	-5.86	62.82	68.2	-5.38
5650	68.34	PK	V	-5.86	62.48	68.2	-5.72
11490.00	52.30	PK	H	3.54	55.84	74.00	-18.16
11490.00	39.80	AV	H	3.54	43.34	54.00	-10.66
11490.00	51.51	PK	V	3.54	55.05	74.00	-18.95
11490.00	39.62	AV	V	3.54	43.16	54.00	-10.84
Middle Channel							
11570.00	52.37	PK	H	3.3	55.67	74.00	-18.33
11570.00	40.36	AV	H	3.3	43.66	54.00	-10.34
11570.00	52.34	PK	V	3.3	55.64	74.00	-18.36
11570.00	40.44	AV	V	3.3	43.74	54.00	-10.26
High Channel							
5850	68.01	PK	H	-4.68	63.33	122.2	-58.87
5850	67.59	PK	V	-4.68	62.91	122.2	-59.29
5855	66.72	PK	H	-4.66	62.06	110.8	-48.74
5855	66.79	PK	V	-4.66	62.13	110.8	-48.67
5875	66.92	PK	H	-4.57	62.35	105.2	-42.85
5875	67.41	PK	V	-4.57	62.84	105.2	-42.36
5925	67.18	PK	H	-4.45	62.73	68.2	-5.47
5925	67	PK	V	-4.45	62.55	68.2	-5.65
11650.00	51.85	PK	H	3.42	55.27	74.00	-18.73
11650.00	39.71	AV	H	3.42	43.13	54.00	-10.87
11650.00	51.97	PK	V	3.42	55.39	74.00	-18.61
11650.00	39.82	AV	V	3.42	43.24	54.00	-10.76

Frequency (MHz)	Reading (dBμV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11ac20							
Low Channel							
5725	69.30	PK	H	-5.48	63.82	122.2	-58.38
5725	69.08	PK	V	-5.48	63.6	122.2	-58.6
5720	68.86	PK	H	-5.53	63.33	110.8	-47.47
5720	69.08	PK	V	-5.53	63.55	110.8	-47.25
5700	67.88	PK	H	-5.71	62.17	105.2	-43.03
5700	68.25	PK	V	-5.71	62.54	105.2	-42.66
5650	68.38	PK	H	-5.86	62.52	68.2	-5.68
5650	68.11	PK	V	-5.86	62.25	68.2	-5.95
11490.00	51.94	PK	H	3.54	55.48	74.00	-18.52
11490.00	39.52	AV	H	3.54	43.06	54.00	-10.94
11490.00	51.82	PK	V	3.54	55.36	74.00	-18.64
11490.00	39.86	AV	V	3.54	43.40	54.00	-10.60
Middle Channel							
11570.00	52.01	PK	H	3.3	55.31	74.00	-18.69
11570.00	40.23	AV	H	3.3	43.53	54.00	-10.47
11570.00	52.20	PK	V	3.3	55.50	74.00	-18.50
11570.00	40.44	AV	V	3.3	43.74	54.00	-10.26
High Channel							
5850	67.93	PK	H	-4.68	63.25	122.2	-58.95
5850	67.58	PK	V	-4.68	62.9	122.2	-59.3
5855	66.68	PK	H	-4.66	62.02	110.8	-48.78
5855	67.62	PK	V	-4.66	62.96	110.8	-47.84
5875	66.95	PK	H	-4.57	62.38	105.2	-42.82
5875	67.44	PK	V	-4.57	62.87	105.2	-42.33
5925	67.17	PK	H	-4.45	62.72	68.2	-5.48
5925	66.94	PK	V	-4.45	62.49	68.2	-5.71
11650.00	51.71	PK	H	3.42	55.13	74.00	-18.87
11650.00	39.60	AV	H	3.42	43.02	54.00	-10.98
11650.00	52.50	PK	V	3.42	55.92	74.00	-18.08
11650.00	40.51	AV	V	3.42	43.93	54.00	-10.07

Frequency (MHz)	Reading (dB μ V)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
802.11ac40							
Low Channel							
5725	72.97	PK	H	-5.48	67.49	122.2	-54.71
5725	71.05	PK	V	-5.48	65.57	122.2	-56.63
5720	72.3	PK	H	-5.53	66.77	110.8	-44.03
5720	71.92	PK	V	-5.53	66.39	110.8	-44.41
5700	67.93	PK	H	-5.71	62.22	105.2	-42.98
5700	67.76	PK	V	-5.71	62.05	105.2	-43.15
5650	67.66	PK	H	-5.86	61.8	68.2	-6.4
5650	67.08	PK	V	-5.86	61.22	68.2	-6.98
11510.00	52.10	PK	H	3.53	55.63	74.00	-18.37
11510.00	39.72	AV	H	3.53	43.25	54.00	-10.75
11510.00	52.02	PK	V	3.53	55.55	74.00	-18.45
11510.00	39.85	AV	V	3.53	43.38	54.00	-10.62
High Channel							
5850	67.93	PK	H	-4.68	63.25	122.2	-58.95
5850	68.07	PK	V	-4.68	63.39	122.2	-58.81
5855	68.47	PK	H	-4.66	63.81	110.8	-46.99
5855	67.58	PK	V	-4.66	62.92	110.8	-47.88
5875	67.62	PK	H	-4.57	63.05	105.2	-42.15
5875	67.31	PK	V	-4.57	62.74	105.2	-42.46
5925	66.77	PK	H	-4.45	62.32	68.2	-5.88
5925	67.06	PK	V	-4.45	62.61	68.2	-5.59
11590.00	52.63	PK	H	3.21	55.84	74.00	-18.16
11590.00	40.45	AV	H	3.21	43.66	54.00	-10.34
11590.00	52.42	PK	V	3.21	55.63	74.00	-18.37
11590.00	39.96	AV	V	3.21	43.17	54.00	-10.83

Frequency (MHz)	Reading (dB μ V)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
802.11ac80							
Middle Channel							
5725	81.05	PK	H	-5.48	75.57	122.2	-46.63
5725	73.97	PK	V	-5.48	68.49	122.2	-53.71
5720	80.08	PK	H	-5.53	74.55	110.8	-36.25
5720	72.93	PK	V	-5.53	67.4	110.8	-43.4
5700	79.12	PK	H	-5.71	73.41	105.2	-31.79
5700	71.97	PK	V	-5.71	66.26	105.2	-38.94
5650	70.71	PK	H	-5.86	64.85	68.2	-3.35
5650	68.52	PK	V	-5.86	62.66	68.2	-5.54
5850	77.07	PK	H	-4.68	72.39	122.2	-49.81
5850	70.9	PK	V	-4.68	66.22	122.2	-55.98
5855	75.63	PK	H	-4.66	70.97	110.8	-39.83
5855	71.98	PK	V	-4.66	67.32	110.8	-43.48
5875	70.17	PK	H	-4.57	65.6	105.2	-39.6
5875	68.68	PK	V	-4.57	64.11	105.2	-41.09
5925	66.94	PK	H	-4.45	62.49	68.2	-5.71
5925	66.86	PK	V	-4.45	62.41	68.2	-5.79
11550.00	51.87	PK	H	3.37	55.24	74.00	-18.76
11550.00	40.23	AV	H	3.37	43.60	54.00	-10.40
11550.00	52.33	PK	V	3.37	55.70	74.00	-18.30
11550.00	40.11	AV	V	3.37	43.48	54.00	-10.52

Frequency (MHz)	Reading (dBμV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11ax20							
Low Channel							
5725	70.10	PK	H	-5.48	64.62	122.2	-57.58
5725	70.08	PK	V	-5.48	64.6	122.2	-57.6
5720	70.23	PK	H	-5.53	64.7	110.8	-46.1
5720	68.81	PK	V	-5.53	63.28	110.8	-47.52
5700	67.88	PK	H	-5.71	62.17	105.2	-43.03
5700	68.08	PK	V	-5.71	62.37	105.2	-42.83
5650	68.55	PK	H	-5.86	62.69	68.2	-5.51
5650	68.44	PK	V	-5.86	62.58	68.2	-5.62
11490.00	51.86	PK	H	3.54	55.40	74.00	-18.60
11490.00	39.91	AV	H	3.54	43.45	54.00	-10.55
11490.00	52.12	PK	V	3.54	55.66	74.00	-18.34
11490.00	39.82	AV	V	3.54	43.36	54.00	-10.64
Middle Channel							
11570.00	52.40	PK	H	3.3	55.70	74.00	-18.30
11570.00	40.52	AV	H	3.3	43.82	54.00	-10.18
11570.00	52.23	PK	V	3.3	55.53	74.00	-18.47
11570.00	40.49	AV	V	3.3	43.79	54.00	-10.21
High Channel							
5850	68.23	PK	H	-4.68	63.55	122.2	-58.65
5850	67.25	PK	V	-4.68	62.57	122.2	-59.63
5855	66.98	PK	H	-4.66	62.32	110.8	-48.48
5855	66.68	PK	V	-4.66	62.02	110.8	-48.78
5875	66.92	PK	H	-4.57	62.35	105.2	-42.85
5875	67.42	PK	V	-4.57	62.85	105.2	-42.35
5925	67.2	PK	H	-4.45	62.75	68.2	-5.45
5925	67	PK	V	-4.45	62.55	68.2	-5.65
11650.00	51.76	PK	H	3.42	55.18	74.00	-18.82
11650.00	39.82	AV	H	3.42	43.24	54.00	-10.76
11650.00	52.52	PK	V	3.42	55.94	74.00	-18.06
11650.00	40.54	AV	V	3.42	43.96	54.00	-10.04

Frequency (MHz)	Reading (dBμV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11ax40							
Low Channel							
5725	73.62	PK	H	-5.48	68.14	122.2	-54.06
5725	71.17	PK	V	-5.48	65.69	122.2	-56.51
5720	72.64	PK	H	-5.53	67.11	110.8	-43.69
5720	73.19	PK	V	-5.53	67.66	110.8	-43.14
5700	68.19	PK	H	-5.71	62.48	105.2	-42.72
5700	68.32	PK	V	-5.71	62.61	105.2	-42.59
5650	68.17	PK	H	-5.86	62.31	68.2	-5.89
5650	68.22	PK	V	-5.86	62.36	68.2	-5.84
11510.00	51.98	PK	H	3.53	55.51	74.00	-18.49
11510.00	39.69	AV	H	3.53	43.22	54.00	-10.78
11510.00	52.07	PK	V	3.53	55.60	74.00	-18.40
11510.00	40.04	AV	V	3.53	43.57	54.00	-10.43
High Channel							
5850	70.73	PK	H	-4.68	66.05	122.2	-56.15
5850	69.02	PK	V	-4.68	64.34	122.2	-57.86
5855	67.92	PK	H	-4.65	63.27	110.8	-47.53
5855	67.78	PK	V	-4.65	63.13	110.8	-47.67
5875	66.9	PK	H	-4.57	62.33	105.2	-42.87
5875	66.62	PK	V	-4.57	62.05	105.2	-43.15
5925	66.98	PK	H	-4.45	62.53	68.2	-5.67
5925	67.18	PK	V	-4.45	62.73	68.2	-5.47
11590.00	52.02	PK	H	3.21	55.23	74.00	-18.77
11590.00	40.73	AV	H	3.21	43.94	54.00	-10.06
11590.00	52.02	PK	V	3.21	55.23	74.00	-18.77
11590.00	40.72	AV	V	3.21	43.93	54.00	-10.07

Frequency (MHz)	Reading (dB μ V)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
802.11ax80							
Middle Channel							
5725	81.91	PK	H	-5.49	76.42	122.2	-45.78
5725	75.31	PK	V	-5.49	69.82	122.2	-52.38
5720	81.11	PK	H	-5.53	75.58	110.8	-35.22
5720	74.43	PK	V	-5.53	68.9	110.8	-41.9
5700	80.23	PK	H	-5.72	74.51	105.2	-30.69
5700	72.82	PK	V	-5.72	67.1	105.2	-38.1
5650	71.38	PK	H	-5.86	65.52	68.2	-2.68
5650	68.45	PK	V	-5.86	62.59	68.2	-5.61
5850	77.74	PK	H	-4.68	73.06	122.2	-49.14
5850	71.88	PK	V	-4.68	67.2	122.2	-55
5855	76.91	PK	H	-4.66	72.25	110.8	-38.55
5855	72.46	PK	V	-4.66	67.8	110.8	-43
5875	70.4	PK	H	-4.57	65.83	105.2	-39.37
5875	67.91	PK	V	-4.57	63.34	105.2	-41.86
5925	66.89	PK	H	-4.45	62.44	68.2	-5.76
5925	67.19	PK	V	-4.45	62.74	68.2	-5.46
11550.00	52.33	PK	H	3.37	55.70	74.00	-18.30
11550.00	40.27	AV	H	3.37	43.64	54.00	-10.36
11550.00	51.95	PK	V	3.37	55.32	74.00	-18.68
11550.00	40.33	AV	V	3.37	43.70	54.00	-10.30

For module YL43456, ANT2**5150-5250 MHz**

Frequency (MHz)	Reading (dBμV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11a							
Low Channel							
5150	65.56	PK	H	-7.46	58.10	74	-15.90
5150	52.94	AV	H	-7.46	45.48	54	-8.52
5150	66.43	PK	V	-7.46	58.97	74	-15.03
5150	53.30	AV	V	-7.46	45.84	54	-8.16
10360.00	50.99	PK	H	2.53	53.52	68.20	-14.68
10360.00	51.25	PK	V	2.53	53.78	68.20	-14.42
Middle Channel							
10400.00	51.06	PK	H	2.55	53.61	68.20	-14.59
10400.00	50.77	PK	V	2.55	53.32	68.20	-14.88
High Channel							
5350	64.93	PK	H	-6.74	58.19	74	-15.81
5350	52.31	AV	H	-6.74	45.57	54	-8.43
5350	64.80	PK	V	-6.74	58.06	74	-15.94
5350	52.67	AV	V	-6.74	45.93	54	-8.07
10480.00	51.09	PK	H	2.25	53.34	68.20	-14.86
10480.00	50.94	PK	V	2.25	53.19	68.20	-15.01
802.11ac20							
Low Channel							
5150	65.59	PK	H	-7.46	58.13	74	-15.87
5150	52.92	AV	H	-7.46	45.46	54	-8.54
5150	66.30	PK	V	-7.46	58.84	74	-15.16
5150	53.16	AV	V	-7.46	45.70	54	-8.30
10360.00	50.84	PK	H	2.53	53.37	68.20	-14.83
10360.00	50.73	PK	V	2.53	53.26	68.20	-14.94
Middle Channel							
10400.00	51.28	PK	H	2.55	53.83	68.20	-14.37
10400.00	51.13	PK	V	2.55	53.68	68.20	-14.52
High Channel							
5350	64.82	PK	H	-6.74	58.08	74	-15.92
5350	52.40	AV	H	-6.74	45.66	54	-8.34
5350	65.47	PK	V	-6.74	58.73	74	-15.27
5350	52.58	AV	V	-6.74	45.84	54	-8.16
10480.00	51.17	PK	H	2.25	53.42	68.20	-14.78
10480.00	51.34	PK	V	2.25	53.59	68.20	-14.61

Frequency (MHz)	Reading (dBμV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11ac40							
Low Channel							
5150	70.41	PK	H	-7.46	62.95	74	-11.05
5150	53.93	AV	H	-7.46	46.47	54	-7.53
5150	68.10	PK	V	-7.46	60.64	74	-13.36
5150	52.69	AV	V	-7.46	45.23	54	-8.77
10380.00	51.03	PK	H	2.54	53.57	68.20	-14.63
10380.00	51.15	PK	V	2.54	53.69	68.20	-14.51
High Channel							
5350	64.88	PK	H	-6.74	58.14	74	-15.86
5350	51.91	AV	H	-6.74	45.17	54	-8.83
5350	65.34	PK	V	-6.74	58.6	74	-15.40
5350	52.50	AV	V	-6.74	45.76	54	-8.24
10460.00	51.33	PK	H	2.32	53.65	68.20	-14.55
10460.00	51.10	PK	V	2.32	53.42	68.20	-14.78
802.11ac80							
Middle Channel							
5150	74.17	PK	H	-7.46	66.71	74	-7.29
5150	58.78	AV	H	-7.46	51.32	54	-2.68
5150	71.11	PK	V	-7.46	63.65	74	-10.35
5150	55.95	AV	V	-7.46	48.49	54	-5.51
5350	65.01	PK	H	-6.74	58.27	74	-15.73
5350	52.11	AV	H	-6.74	45.37	54	-8.63
5350	64.85	PK	V	-6.74	58.11	74	-15.89
5350	52.61	AV	V	-6.74	45.87	54	-8.13
10420.00	51.45	PK	H	2.48	53.93	68.20	-14.27
10420.00	51.41	PK	V	2.48	53.89	68.20	-14.31

5250-5350MHz

Frequency (MHz)	Reading (dB μ V)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
802.11a							
Low Channel							
5150	65.65	PK	H	-7.46	58.19	74	-15.81
5150	52.68	AV	H	-7.46	45.22	54	-8.78
5150	65.72	PK	V	-7.46	58.26	74	-15.74
5150	52.62	AV	V	-7.46	45.16	54	-8.84
10520.00	51.34	PK	H	2.18	53.52	68.20	-14.68
10520.00	50.97	PK	V	2.18	53.15	68.20	-15.05
Middle Channel							
10560.00	51.11	PK	H	2.18	53.29	68.20	-14.91
10560.00	50.99	PK	V	2.18	53.17	68.20	-15.03
High Channel							
5350	65.52	PK	H	-6.74	58.78	74	-15.22
5350	52.40	AV	H	-6.74	45.66	54	-8.34
5350	65.48	PK	V	-6.74	58.74	74	-15.26
5350	51.91	AV	V	-6.74	45.17	54	-8.83
10640.00	50.50	PK	H	2.59	53.09	74.00	-20.91
10640.00	39.08	AV	H	2.59	41.67	54.00	-12.33
10640.00	50.56	PK	V	2.59	53.15	74.00	-20.85
10640.00	39.06	AV	V	2.59	41.65	54.00	-12.35

Frequency (MHz)	Reading (dBμV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11ac20							
Low Channel							
5150	66.26	PK	H	-7.46	58.80	74	-15.20
5150	53.37	AV	H	-7.46	45.91	54	-8.09
5150	66.18	PK	V	-7.46	58.72	74	-15.28
5150	53.06	AV	V	-7.46	45.60	54	-8.40
10520.00	51.62	PK	H	2.18	53.80	68.20	-14.40
10520.00	51.53	PK	V	2.18	53.71	68.20	-14.49
Middle Channel							
10560.00	51.62	PK	H	2.18	53.80	68.20	-14.40
10560.00	51.23	PK	V	2.18	53.41	68.20	-14.79
High Channel							
5350	65.00	PK	H	-6.74	58.26	74	-15.74
5350	52.70	AV	H	-6.74	45.96	54	-8.04
5350	64.91	PK	V	-6.74	58.17	74	-15.83
5350	52.50	AV	V	-6.74	45.76	54	-8.24
10640.00	50.49	PK	H	2.59	53.08	74.00	-20.92
10640.00	38.92	AV	H	2.59	41.51	54.00	-12.49
10640.00	40.67	PK	V	2.59	43.26	74.00	-30.74
10640.00	38.56	AV	V	2.59	41.15	54.00	-12.85
802.11ac40							
Low Channel							
5150	66.07	PK	H	-7.46	58.61	74	-15.39
5150	52.54	AV	H	-7.46	45.08	54	-8.92
5150	65.95	PK	V	-7.46	58.49	74	-15.51
5150	53.42	AV	V	-7.46	45.96	54	-8.04
10540.00	51.13	PK	H	2.18	53.31	68.20	-14.89
10540.00	51.08	PK	V	2.18	53.26	68.20	-14.94
High Channel							
5350	66.14	PK	H	-6.74	59.4	74	-14.60
5350	51.77	AV	H	-6.74	45.03	54	-8.97
5350	65.10	PK	V	-6.74	58.36	74	-15.64
5350	52.09	AV	V	-6.74	45.35	54	-8.65
10620.00	50.87	PK	H	2.37	53.24	74.00	-20.76
10620.00	39.27	AV	H	2.37	41.64	54.00	-12.36
10620.00	50.75	PK	V	2.37	53.12	74.00	-20.88
10620.00	39.33	AV	V	2.37	41.70	54.00	-12.30

Frequency (MHz)	Reading (dB μ V)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
802.11ac80							
Middle Channel							
5150	65.62	PK	H	-7.46	58.16	74	-15.84
5150	52.54	AV	H	-7.46	45.08	54	-8.92
5150	64.29	PK	V	-7.46	56.83	74	-17.17
5150	50.87	AV	V	-7.46	43.41	54	-10.59
5350	75.48	PK	H	-6.74	68.74	74	-5.26
5350	57.41	AV	H	-6.74	50.67	54	-3.33
5350	73.77	PK	V	-6.74	67.03	74	-6.97
5350	55.61	AV	V	-6.74	48.87	54	-5.13
10580.00	50.94	PK	H	2.18	53.12	68.20	-15.08
10580.00	51.17	PK	V	2.18	53.35	68.20	-14.85

5470-5725MHz

Frequency (MHz)	Reading (dBμV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11a							
Low Channel							
5460	67.45	PK	H	-6.29	61.16	74	-12.84
5460	53.28	AV	H	-6.29	46.99	54	-7.01
5460	68.12	PK	V	-6.29	61.83	74	-12.17
5460	53.20	AV	V	-6.29	46.91	54	-7.09
5470	66.83	PK	H	-6.26	60.57	68.2	-7.63
5470	66.86	PK	V	-6.26	60.60	68.2	-7.60
11000.00	51.24	PK	H	4.29	55.53	74.00	-18.47
11000.00	38.89	AV	H	4.29	43.18	54.00	-10.82
11000.00	51.29	PK	V	4.29	55.58	74.00	-18.42
11000.00	39.19	AV	V	4.29	43.48	54.00	-10.52
Middle Channel							
11160.00	51.77	PK	H	3.5	55.27	74.00	-18.73
11160.00	40.33	AV	H	3.5	43.83	54.00	-10.17
11160.00	51.69	PK	V	3.5	55.19	74.00	-18.81
11160.00	40.38	AV	V	3.5	43.88	54.00	-10.12
High Channel							
5725	66.11	PK	H	-5.48	60.63	68.2	-7.57
5725	65.90	PK	V	-5.48	60.42	68.2	-7.78
11400.00	52.50	PK	H	3.32	55.82	74.00	-18.18
11400.00	39.81	AV	H	3.32	43.13	54.00	-10.87
11400.00	51.99	PK	V	3.32	55.31	74.00	-18.69
11400.00	40.60	AV	V	3.32	43.92	54.00	-10.08
Cross Channel							
11440	52.24	PK	H	3.42	55.66	74	-18.34
11440	40.25	AV	H	3.42	43.67	54	-10.33
11440	52.02	PK	V	3.42	55.44	74	-18.56
11440	39.96	AV	V	3.42	43.38	54	-10.62

Frequency (MHz)	Reading (dBμV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11ac20							
Low Channel							
5460	67.57	PK	H	-6.29	61.28	74	-12.72
5460	52.76	AV	H	-6.29	46.47	54	-7.53
5460	67.94	PK	V	-6.29	61.65	74	-12.35
5460	52.46	AV	V	-6.29	46.17	54	-7.83
5470	66.78	PK	H	-6.26	60.52	68.2	-7.68
5470	67.16	PK	V	-6.26	60.90	68.2	-7.30
11000.00	51.45	PK	H	4.29	55.74	74.00	-18.26
11000.00	39.05	AV	H	4.29	43.34	54.00	-10.66
11000.00	50.86	PK	V	4.29	55.15	74.00	-18.85
11000.00	39.06	AV	V	4.29	43.35	54.00	-10.65
Middle Channel							
11160.00	52.14	PK	H	3.5	55.64	74.00	-18.36
11160.00	39.92	AV	H	3.5	43.42	54.00	-10.58
11160.00	51.86	PK	V	3.5	55.36	74.00	-18.64
11160.00	39.96	AV	V	3.5	43.46	54.00	-10.54
High Channel							
5725	66.16	PK	H	-5.48	60.68	68.2	-7.52
5725	65.96	PK	V	-5.48	60.48	68.2	-7.72
11400.00	52.15	PK	H	3.32	55.47	74.00	-18.53
11400.00	40.03	AV	H	3.32	43.35	54.00	-10.65
11400.00	52.35	PK	V	3.32	55.67	74.00	-18.33
11400.00	40.22	AV	V	3.32	43.54	54.00	-10.46
Cross Channel							
11440	52.15	PK	H	3.42	55.57	74	-18.43
11440	39.93	AV	H	3.42	43.35	54	-10.65
11440	52.44	PK	V	3.42	55.86	74	-18.14
11440	39.72	AV	V	3.42	43.14	54	-10.86

Frequency (MHz)	Reading (dBμV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11ac40							
Low Channel							
5460	69.22	PK	H	-6.29	62.93	74	-11.07
5460	52.71	AV	H	-6.29	46.42	54	-7.58
5460	67.25	PK	V	-6.29	60.96	74	-13.04
5460	53.15	AV	V	-6.29	46.86	54	-7.14
5470	69.55	PK	H	-6.26	63.29	68.2	-4.91
5470	67.85	PK	V	-6.26	61.59	68.2	-6.61
11020.00	51.36	PK	H	4.1	55.46	74.00	-18.54
11020.00	39.26	AV	H	4.1	43.36	54.00	-10.64
11020.00	51.01	PK	V	4.1	55.11	74.00	-18.89
11020.00	39.66	AV	V	4.1	43.76	54.00	-10.24
Middle Channel							
11100.00	51.90	PK	H	3.34	55.24	74.00	-18.76
11100.00	39.80	AV	H	3.34	43.14	54.00	-10.86
11100.00	52.05	PK	V	3.34	55.39	74.00	-18.61
11100.00	39.90	AV	V	3.34	43.24	54.00	-10.76
High Channel							
5725	65.53	PK	H	-5.48	60.05	68.2	-8.15
5725	66.30	PK	V	-5.48	60.82	68.2	-7.38
11340.000	52.10	PK	H	3.46	55.56	74.00	-18.44
11340.000	40.24	AV	H	3.46	43.70	54.00	-10.30
11340.000	52.47	PK	V	3.46	55.93	74.00	-18.07
11340.000	40.29	AV	V	3.46	43.75	54.00	-10.25
Cross Channel							
11420	52.19	PK	H	3.37	55.56	74	-18.44
11420	40.09	AV	H	3.37	43.46	54	-10.54
11420	51.98	PK	V	3.37	55.35	74	-18.65
11420	40.27	AV	V	3.37	43.64	54	-10.36

Frequency (MHz)	Reading (dB μ V)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
802.11ac80							
Low Channel							
5460	70.95	PK	H	-6.29	64.66	74	-9.34
5460	55.39	AV	H	-6.29	49.10	54	-4.90
5460	69.80	PK	V	-6.29	63.51	74	-10.49
5460	54.13	AV	V	-6.29	47.84	54	-6.16
5470	71.29	PK	H	-6.26	65.03	68.2	-3.17
5470	69.52	PK	V	-6.26	63.26	68.2	-4.94
11060.000	51.47	PK	H	3.71	55.18	74.00	-18.82
11060.000	40.03	AV	H	3.71	43.74	54.00	-10.26
11060.000	52.16	PK	V	3.71	55.87	74.00	-18.13
11060.000	39.56	AV	V	3.71	43.27	54.00	-10.73
High Channel							
5725	66.13	PK	H	-5.48	60.65	68.2	-7.55
5725	66.23	PK	V	-5.48	60.75	68.2	-7.45
11220.000	52.04	PK	H	3.6	55.64	74.00	-18.36
11220.000	39.81	AV	H	3.6	43.41	54.00	-10.59
11220.000	51.74	PK	V	3.6	55.34	74.00	-18.66
11220.000	39.91	AV	V	3.6	43.51	54.00	-10.49
Cross Channel							
11380	51.81	PK	H	3.36	55.17	74	-18.83
11380	40.29	AV	H	3.36	43.65	54	-10.35
11380	51.98	PK	V	3.36	55.34	74	-18.66
11380	40.40	AV	V	3.36	43.76	54	-10.24

5725-5850MHz

Frequency (MHz)	Reading (dBμV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11a							
Low Channel							
5725	68.40	PK	H	-5.48	62.92	122.2	-59.28
5725	67.91	PK	V	-5.48	62.43	122.2	-59.77
5720	67.89	PK	H	-5.53	62.36	110.8	-48.44
5720	67.78	PK	V	-5.53	62.25	110.8	-48.55
5700	67.53	PK	H	-5.71	61.82	105.2	-43.38
5700	66.92	PK	V	-5.71	61.21	105.2	-43.99
5650	67.08	PK	H	-5.86	61.22	68.2	-6.98
5650	67.29	PK	V	-5.86	61.43	68.2	-6.77
11490.00	51.92	PK	H	3.54	55.46	74.00	-18.54
11490.00	39.59	AV	H	3.54	43.13	54.00	-10.87
11490.00	51.52	PK	V	3.54	55.06	74.00	-18.94
11490.00	40.43	AV	V	3.54	43.97	54.00	-10.03
Middle Channel							
11570.00	52.20	PK	H	3.3	55.50	74.00	-18.50
11570.00	40.62	AV	H	3.3	43.92	54.00	-10.08
11570.00	52.64	PK	V	3.3	55.94	74.00	-18.06
11570.00	40.47	AV	V	3.3	43.77	54.00	-10.23
High Channel							
5850	67.1	PK	H	-4.68	62.42	122.2	-59.78
5850	67.05	PK	V	-4.68	62.37	122.2	-59.83
5855	67.6	PK	H	-4.66	62.94	110.8	-47.86
5855	67.46	PK	V	-4.66	62.8	110.8	-48
5875	66.84	PK	H	-4.57	62.27	105.2	-42.93
5875	66.71	PK	V	-4.57	62.14	105.2	-43.06
5925	67.09	PK	H	-4.45	62.64	68.2	-5.56
5925	66.64	PK	V	-4.45	62.19	68.2	-6.01
11650.00	51.61	PK	H	3.42	55.03	74.00	-18.97
11650.00	40.00	AV	H	3.42	43.42	54.00	-10.58
11650.00	52.11	PK	V	3.42	55.53	74.00	-18.47
11650.00	40.34	AV	V	3.42	43.76	54.00	-10.24

Frequency (MHz)	Reading (dBμV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11ac20							
Low Channel							
5725	68.33	PK	H	-5.48	62.85	122.2	-59.35
5725	68.13	PK	V	-5.48	62.65	122.2	-59.55
5720	67.88	PK	H	-5.53	62.35	110.8	-48.45
5720	68.15	PK	V	-5.53	62.62	110.8	-48.18
5700	67.18	PK	H	-5.71	61.47	105.2	-43.73
5700	67.03	PK	V	-5.71	61.32	105.2	-43.88
5650	67.32	PK	H	-5.86	61.46	68.2	-6.74
5650	67.11	PK	V	-5.86	61.25	68.2	-6.95
11490.00	52.03	PK	H	3.54	55.57	74.00	-18.43
11490.00	39.71	AV	H	3.54	43.25	54.00	-10.75
11490.00	51.98	PK	V	3.54	55.52	74.00	-18.48
11490.00	39.87	AV	V	3.54	43.41	54.00	-10.59
Middle Channel							
11570.00	52.17	PK	H	3.3	55.47	74.00	-18.53
11570.00	40.53	AV	H	3.3	43.83	54.00	-10.17
11570.00	52.41	PK	V	3.3	55.71	74.00	-18.29
11570.00	40.35	AV	V	3.3	43.65	54.00	-10.35
High Channel							
5850	67.42	PK	H	-4.68	62.74	122.2	-59.46
5850	67.33	PK	V	-4.68	62.65	122.2	-59.55
5855	67.14	PK	H	-4.66	62.48	110.8	-48.32
5855	67.02	PK	V	-4.66	62.36	110.8	-48.44
5875	67.41	PK	H	-4.57	62.84	105.2	-42.36
5875	66.76	PK	V	-4.57	62.19	105.2	-43.01
5925	67.09	PK	H	-4.45	62.64	68.2	-5.56
5925	66.99	PK	V	-4.45	62.54	68.2	-5.66
11650.00	52.53	PK	H	3.42	55.95	74.00	-18.05
11650.00	39.85	AV	H	3.42	43.27	54.00	-10.73
11650.00	51.96	PK	V	3.42	55.38	74.00	-18.62
11650.00	40.31	AV	V	3.42	43.73	54.00	-10.27

Frequency (MHz)	Reading (dBμV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11ac40							
Low Channel							
5725	67.96	PK	H	-5.48	62.48	122.2	-59.72
5725	67.65	PK	V	-5.48	62.17	122.2	-60.03
5720	67.98	PK	H	-5.53	62.45	110.8	-48.35
5720	67.87	PK	V	-5.53	62.34	110.8	-48.46
5700	66.95	PK	H	-5.71	61.24	105.2	-43.96
5700	67.05	PK	V	-5.71	61.34	105.2	-43.86
5650	67.14	PK	H	-5.86	61.28	68.2	-6.92
5650	67.05	PK	V	-5.86	61.19	68.2	-7.01
11510.00	52.92	PK	H	3.53	56.45	74.00	-17.55
11510.00	39.83	AV	H	3.53	43.36	54.00	-10.64
11510.00	53.22	PK	V	3.53	56.75	74.00	-17.25
11510.00	40.29	AV	V	3.53	43.82	54.00	-10.18
High Channel							
5850	67.59	PK	H	-4.68	62.91	122.2	-59.29
5850	67.27	PK	V	-4.68	62.59	122.2	-59.61
5855	66.68	PK	H	-4.66	62.02	110.8	-48.78
5855	67.59	PK	V	-4.66	62.93	110.8	-47.87
5875	66.62	PK	H	-4.57	62.05	105.2	-43.15
5875	67.56	PK	V	-4.57	62.99	105.2	-42.21
5925	67	PK	H	-4.45	62.55	68.2	-5.65
5925	66.69	PK	V	-4.45	62.24	68.2	-5.96
11590.00	52.40	PK	H	3.21	55.61	74.00	-18.39
11590.00	40.38	AV	H	3.21	43.59	54.00	-10.41
11590.00	52.44	PK	V	3.21	55.65	74.00	-18.35
11590.00	40.53	AV	V	3.21	43.74	54.00	-10.26

Frequency (MHz)	Reading (dBμV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11ac80							
Middle Channel							
5725	76.10	PK	H	-5.48	70.62	122.2	-51.58
5725	74.52	PK	V	-5.48	69.04	122.2	-53.16
5720	74.05	PK	H	-5.53	68.52	110.8	-42.28
5720	72.29	PK	V	-5.53	66.76	110.8	-44.04
5700	72.28	PK	H	-5.71	66.57	105.2	-38.63
5700	70.33	PK	V	-5.71	64.62	105.2	-40.58
5650	67.14	PK	H	-5.86	61.28	68.2	-6.92
5650	67.65	PK	V	-5.86	61.79	68.2	-6.41
5850	67.63	PK	H	-4.68	62.95	122.2	-59.25
5850	67.4	PK	V	-4.68	62.72	122.2	-59.48
5855	66.92	PK	H	-4.66	62.26	110.8	-48.54
5855	66.93	PK	V	-4.66	62.27	110.8	-48.53
5875	67.07	PK	H	-4.57	62.5	105.2	-42.7
5875	66.9	PK	V	-4.57	62.33	105.2	-42.87
5925	66.63	PK	H	-4.45	62.18	68.2	-6.02
5925	66.97	PK	V	-4.45	62.52	68.2	-5.68
11550.00	52.02	PK	H	3.37	55.39	74.00	-18.61
11550.00	40.11	AV	H	3.37	43.48	54.00	-10.52
11550.00	52.33	PK	V	3.37	55.70	74.00	-18.30
11550.00	40.29	AV	V	3.37	43.66	54.00	-10.34

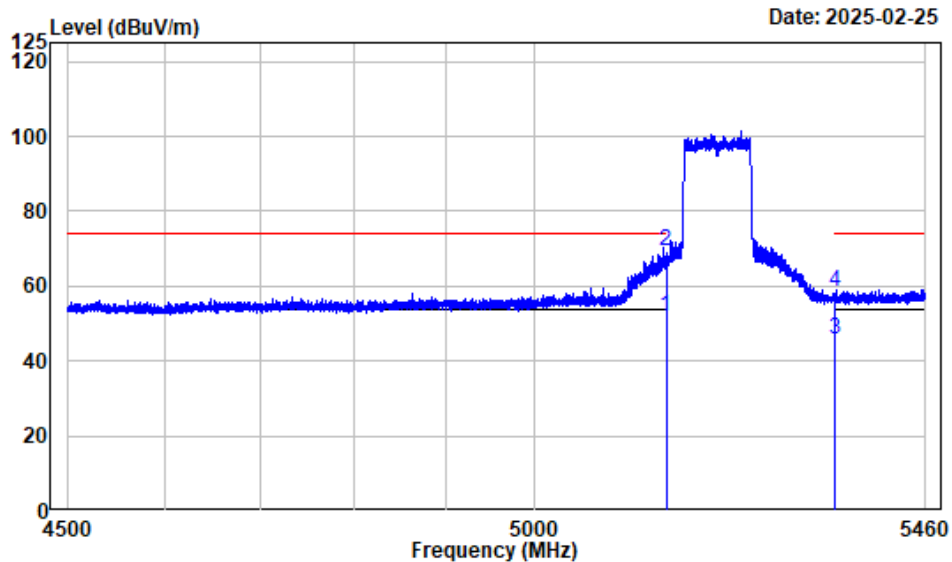
Note:

Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor

Corrected Amplitude = Factor + Reading

Margin = Corrected. Amplitude - Limit

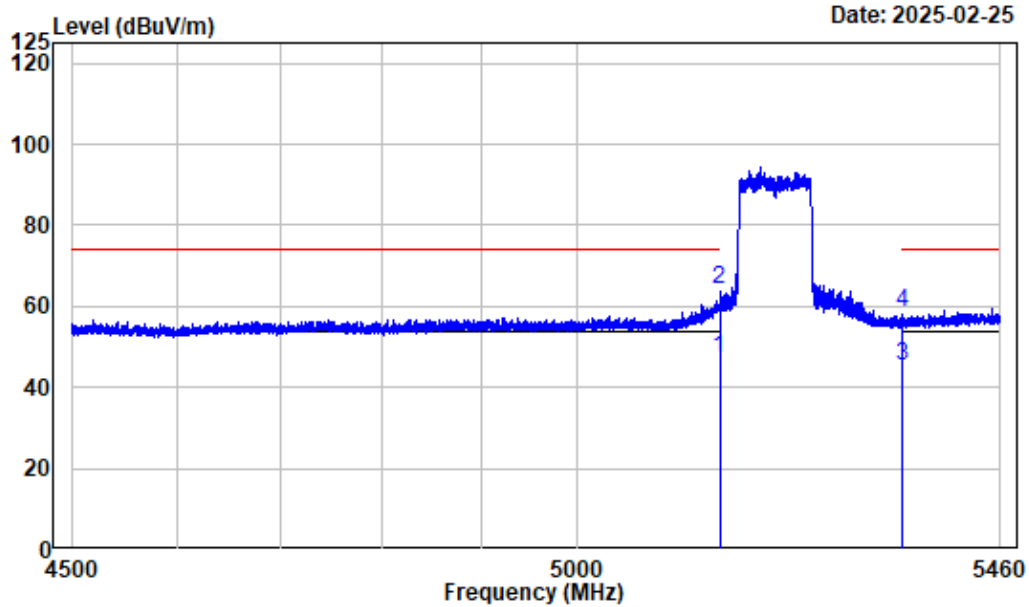
The other spurious emission which is in the noise floor level was not recorded.

Test plots:**Band Edge (Listed with the worst margin test plots)****5150-5250MHz:** Module YL43752, ANT1, 802.11ax80**Left Band Edge_ Horizontal_ ANT1-Band1-AX80-5210MHz**

Condition : Horizontal
Project No. : 2501Q31691E-RF
Tester : Visen Wu
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
: Average reading: RBW:1MHz VBW:5kHz Detector:Peak
Note : 5GWiFi_B1_AX80_ANT1_5210

	Freq Factor		Read		Limit	Over	Remark
			Level	Level	Line	Limit	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5150.000	-7.46	59.37	51.91	54.00	-2.09	Average
2	5150.000	-7.46	76.70	69.24	74.00	-4.76	Peak
3	5350.000	-6.74	52.38	45.64	54.00	-8.36	Average
4	5350.000	-6.74	65.02	58.28	74.00	-15.72	Peak

Left Band Edge_ Vertical_ ANT1-Band1-AX80-5210MHz

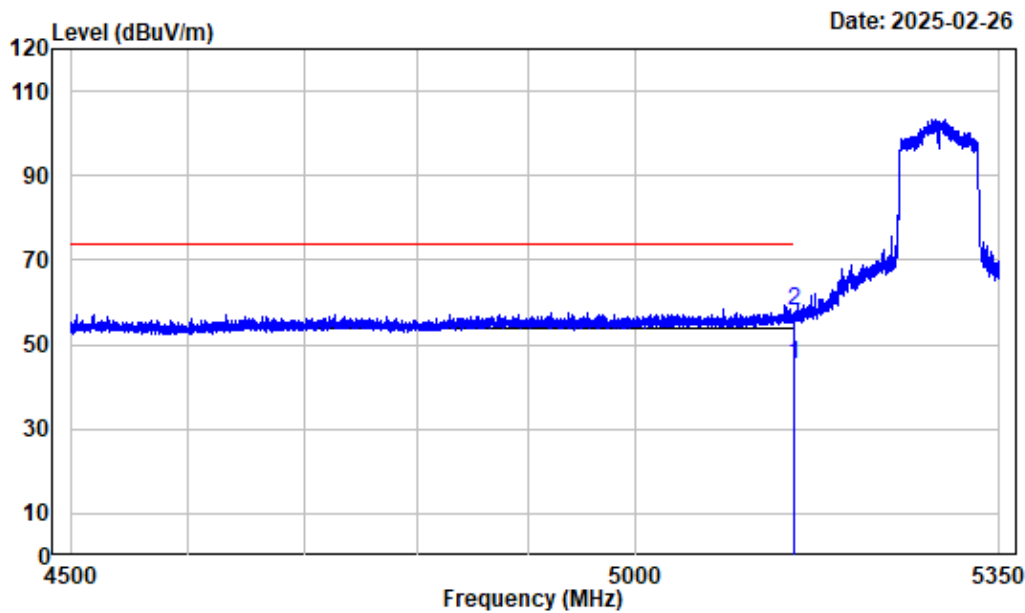


Condition : Vertical
Project No. : 2501Q31691E-RF
Tester : Visen Wu
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
: Average reading: RBW:1MHz VBW:5kHz Detector:Peak
Note : 5GWiFi_B1_AX80_ANT1_5210

	Freq Factor		Read Level		Limit	Over	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5150.000	-7.46	54.71	47.25	54.00	-6.75	Average
2	5150.000	-7.46	71.67	64.21	74.00	-9.79	Peak
3	5350.000	-6.74	52.13	45.39	54.00	-8.61	Average
4	5350.000	-6.74	65.22	58.48	74.00	-15.52	Peak

5250-5350MHz: Module YL43456, 802.11ac80

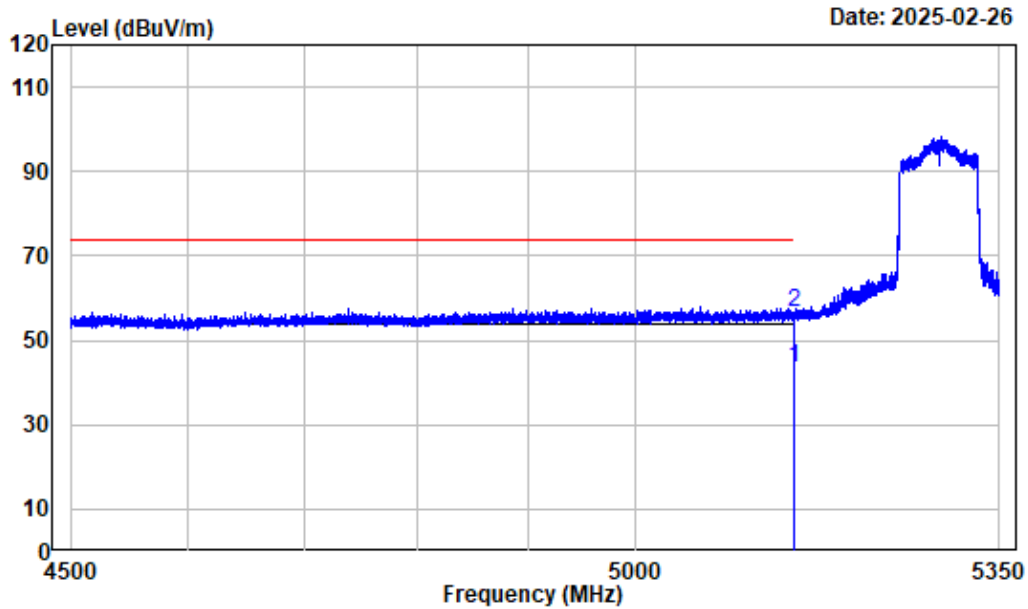
Left Band Edge_ Horizontal-Band2-ac80-5290MHz



Condition : Horizontal
Project No. : 2501Q31691E-RF
Tester : Visen Wu
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
: Average reading: RBW:1MHz VBW:5kHz Detector:Peak
Note : 5GWiFi_B2_AC80_5290

	Freq Factor		Read Level		Limit	Over	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5150.000	-7.46	52.54	45.08	54.00	-8.92	Average
2	5150.000	-7.46	65.62	58.16	74.00	-15.84	Peak

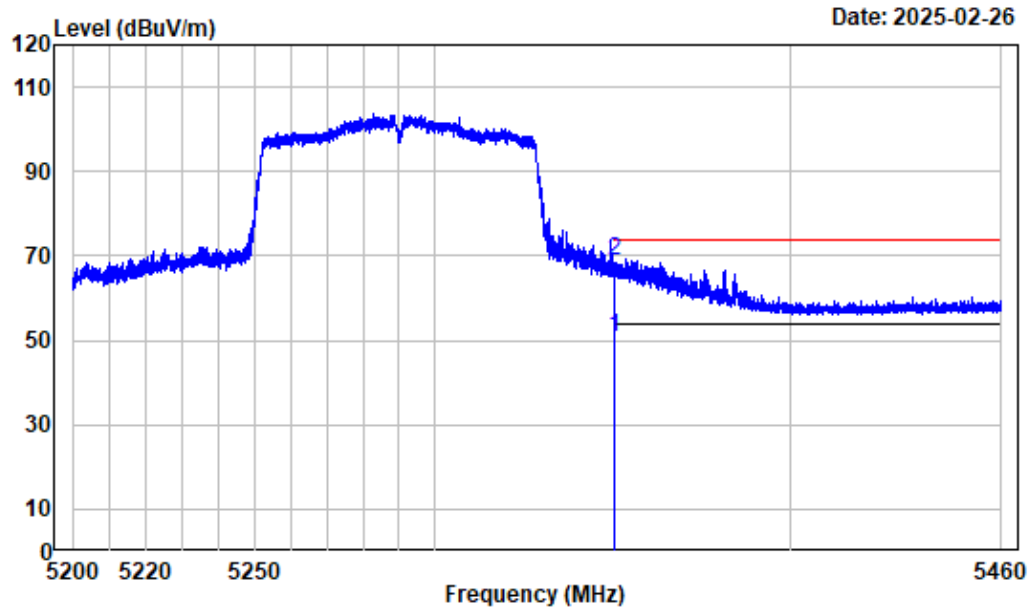
Left Band Edge_ Vertical_ Band2-ac80-5290MHz



Condition : Vertical
Project No. : 2501Q31691E-RF
Tester : Visen Wu
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
: Average reading: RBW:1MHz VBW:5kHz Detector:Peak
Note : 5GWiFi_B2_AC80_5290

	Freq Factor		Read Level		Limit	Over	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5150.000	-7.46	50.87	43.41	54.00	-10.59	Average
2	5150.000	-7.46	64.29	56.83	74.00	-17.17	Peak

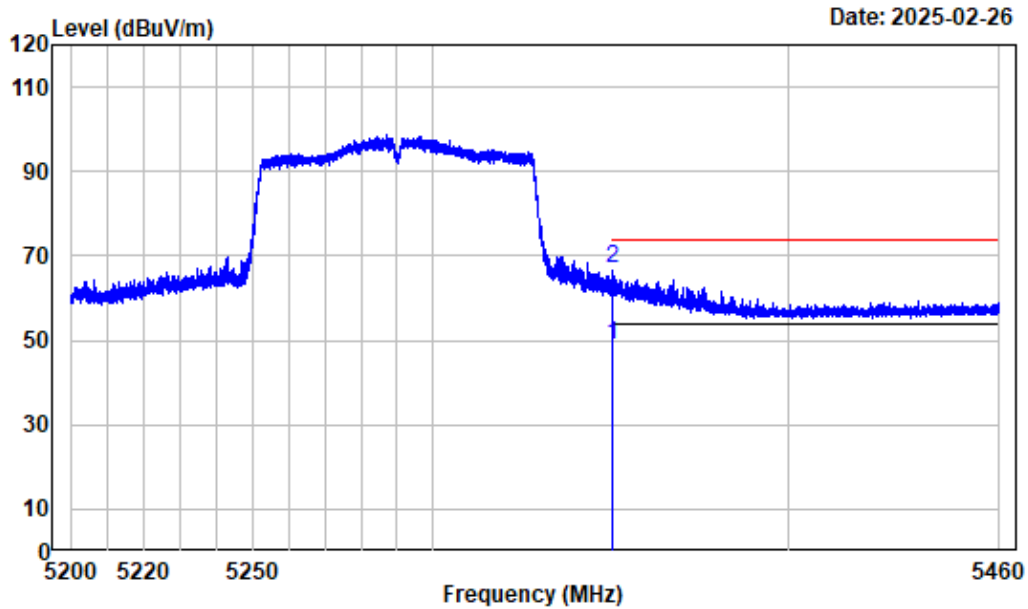
Right Band Edge_ Horizontal_ Band2-ac80-5290MHz



Condition : Horizontal
Project No. : 2501Q31691E-RF
Tester : Visen Wu
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
: Average reading: RBW:1MHz VBW:5kHz Detector:Peak
Note : 5GWiFi_B2_AC80_5290

	Freq Factor		Read Level		Limit	Over	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5350.006	-6.74	57.41	50.67	54.00	-3.33	Average
2	5350.006	-6.74	75.48	68.74	74.00	-5.26	Peak

Right Band Edge_ Vertical_Band2-ac80-5290MHz

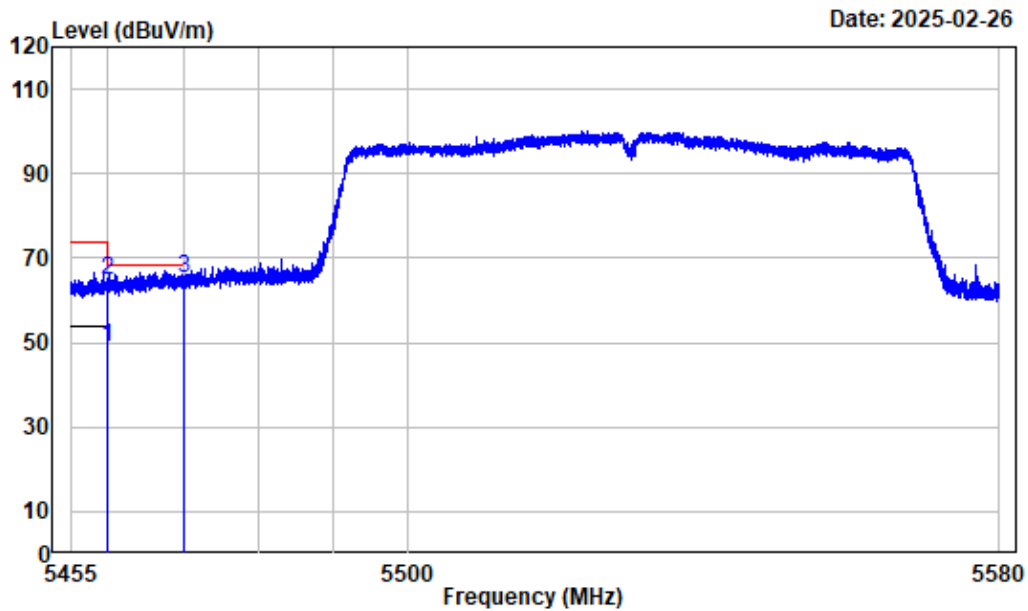


Condition : Vertical
Project No. : 2501Q31691E-RF
Tester : Visen Wu
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
: Average reading: RBW:1MHz VBW:5kHz Detector:Peak
Note : 5GWiFi_B2_AC80_5290

	Freq Factor		Read Level		Limit	Over	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5350.006	-6.74	55.61	48.87	54.00	-5.13	Average
2	5350.006	-6.74	73.77	67.03	74.00	-6.97	Peak

5470-5725MHz: Module YL43456, 802.11ac80

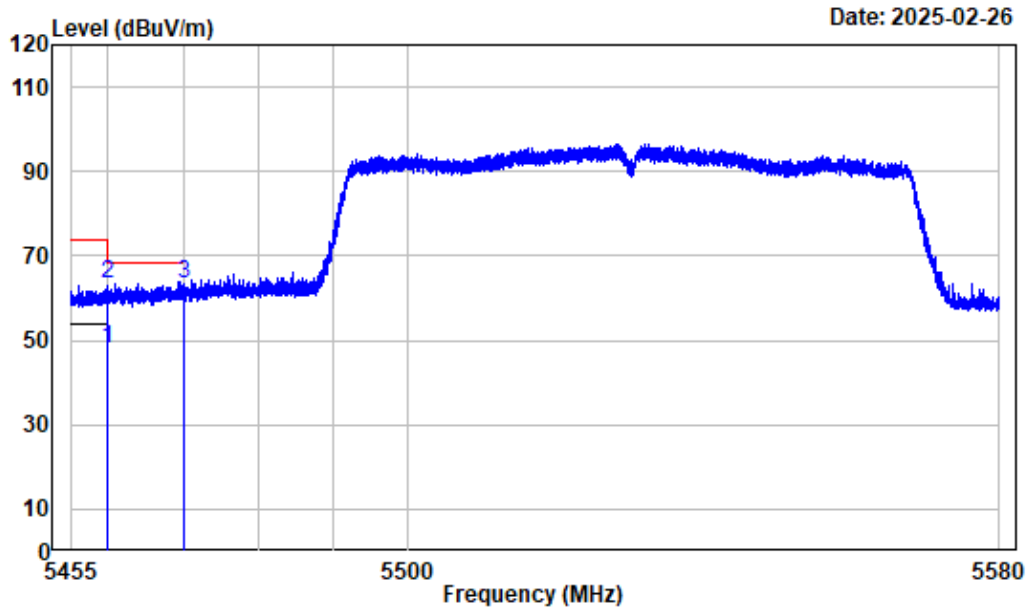
Left Band Edge_ Horizontal _ Band3-AC80-5530MHz



Condition : Horizontal
Project No. : 2501Q31691E-RF
Tester : Visen Wu
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
: Average reading: RBW:1MHz VBW:5kHz Detector:Peak
Note : 5GWiFi_B3_AC80_5530

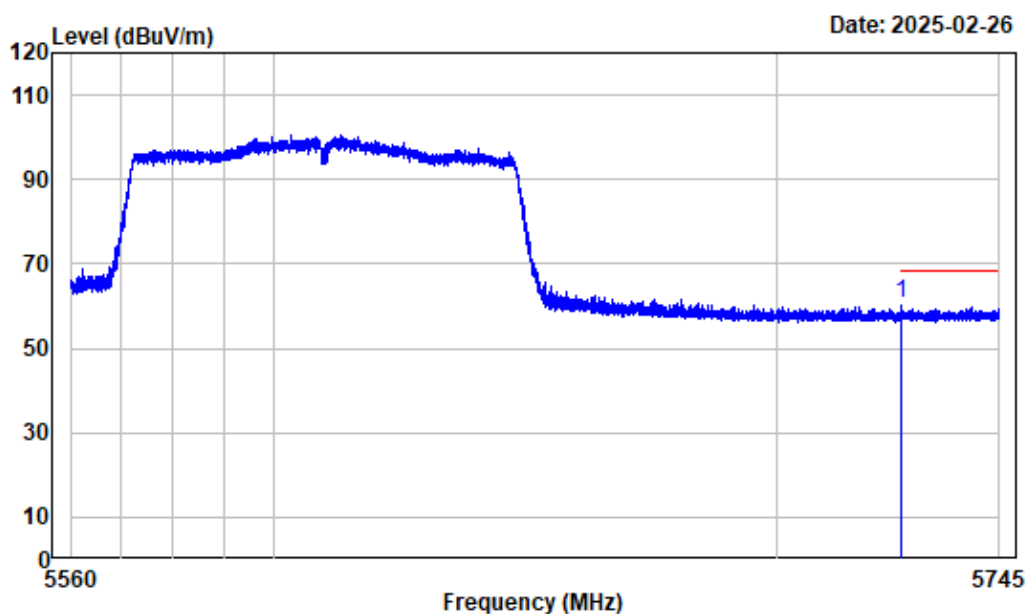
	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5460.000	-6.29	55.39	49.10	54.00	-4.90	Average
2	5460.000	-6.29	70.95	64.66	74.00	-9.34	Peak
3	5470.000	-6.26	71.29	65.03	68.20	-3.17	Peak

Left Band Edge_ Vertical_Band3-AC80-5530MHz



Condition : Vertical
Project No. : 2501Q31691E-RF
Tester : Visen Wu
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
: Average reading: RBW:1MHz VBW:5kHz Detector:Peak
Note : 5GWiFi_B3_AC80_5530

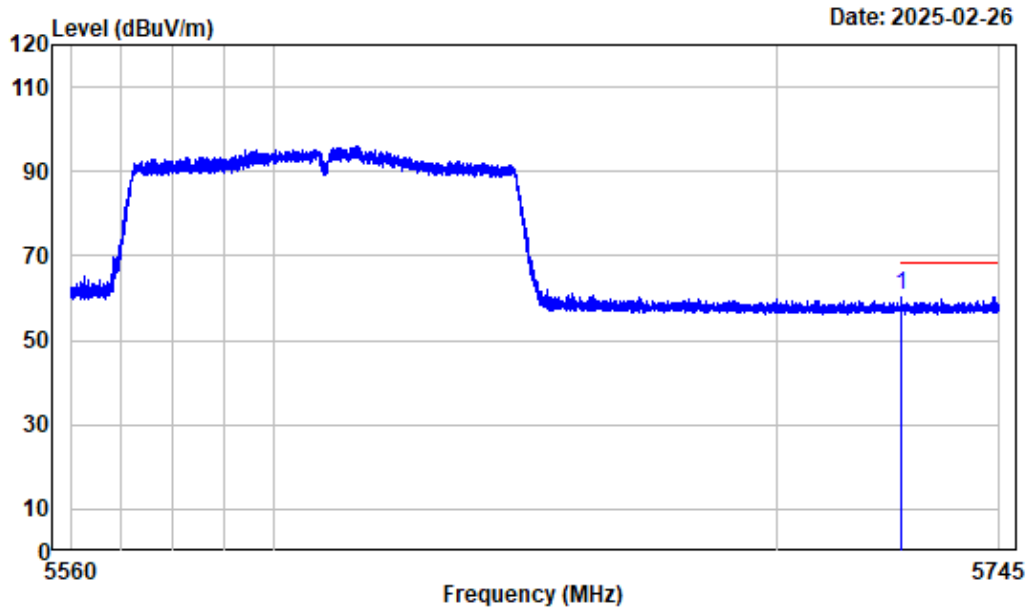
	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5460.000	-6.29	54.13	47.84	54.00	-6.16	Average
2	5460.000	-6.29	69.80	63.51	74.00	-10.49	Peak
3	5470.000	-6.26	69.52	63.26	68.20	-4.94	Peak

Right Band Edge_ Horizontal_ Band3-AC80-5610MHz

Condition : Horizontal
Project No. : 2501Q31691E-RF
Tester : Visen Wu
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi_B3_AC80_5610

	Freq Factor		Read Level		Limit	Over	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5725.000	-5.48	66.13	60.65	68.20	-7.55	Peak

Right Band Edge_ Vertical-Band3-AC80-5610MHz

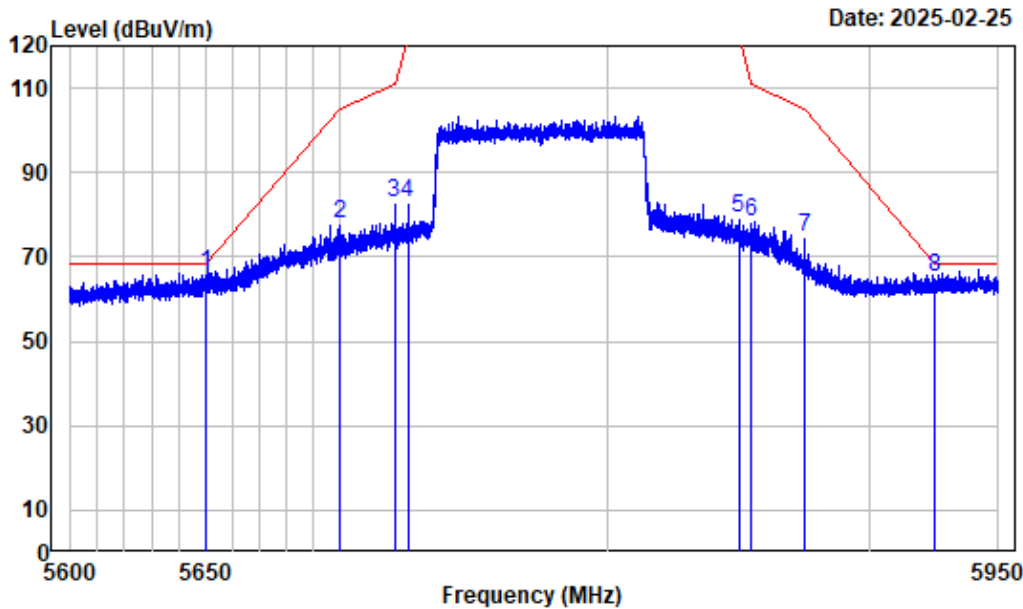


Condition : Vertical
Project No. : 2501Q31691E-RF
Tester : Visen Wu
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi_B3_AC80_5610

	Freq Factor		Read Level		Limit	Over	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5725.000	-5.48	66.23	60.75	68.20	-7.45	Peak

5725-5850MHz: Module YL43752, ANT0, 802.11ax80

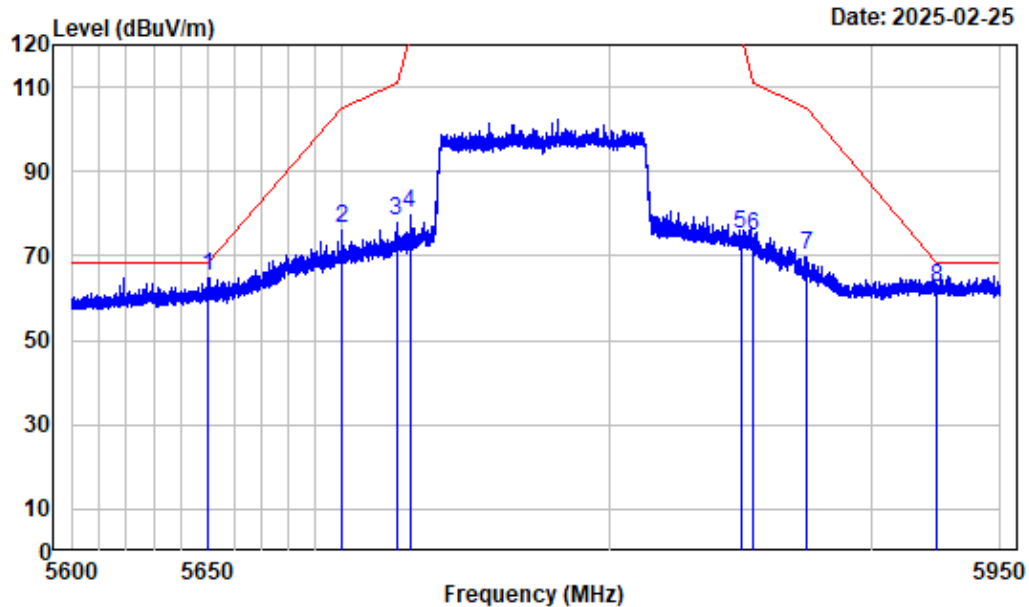
Left Band Edge_ Horizontal_ ANT0-Band4-AX80-5775MHz



Condition : Horizontal
Project No. : 2501Q31691E-RF
Tester : Visen Wu
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi_B4_AX80_ANT0_5775

	Freq	Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5650.000	-5.86	72.10	66.24	68.20	-1.96	Peak
2	5700.000	-5.71	83.54	77.83	105.20	-27.37	Peak
3	5720.000	-5.53	88.23	82.70	110.80	-28.10	Peak
4	5725.000	-5.48	88.55	83.07	122.20	-39.13	Peak
5	5850.000	-4.68	83.72	79.04	122.20	-43.16	Peak
6	5855.000	-4.66	83.18	78.52	110.80	-32.28	Peak
7	5875.000	-4.57	79.26	74.69	105.20	-30.51	Peak
8	5925.000	-4.45	69.55	65.10	68.20	-3.10	Peak

Left Band Edge_ Vertical_ ANT0-Band4-AX80-5775MHz

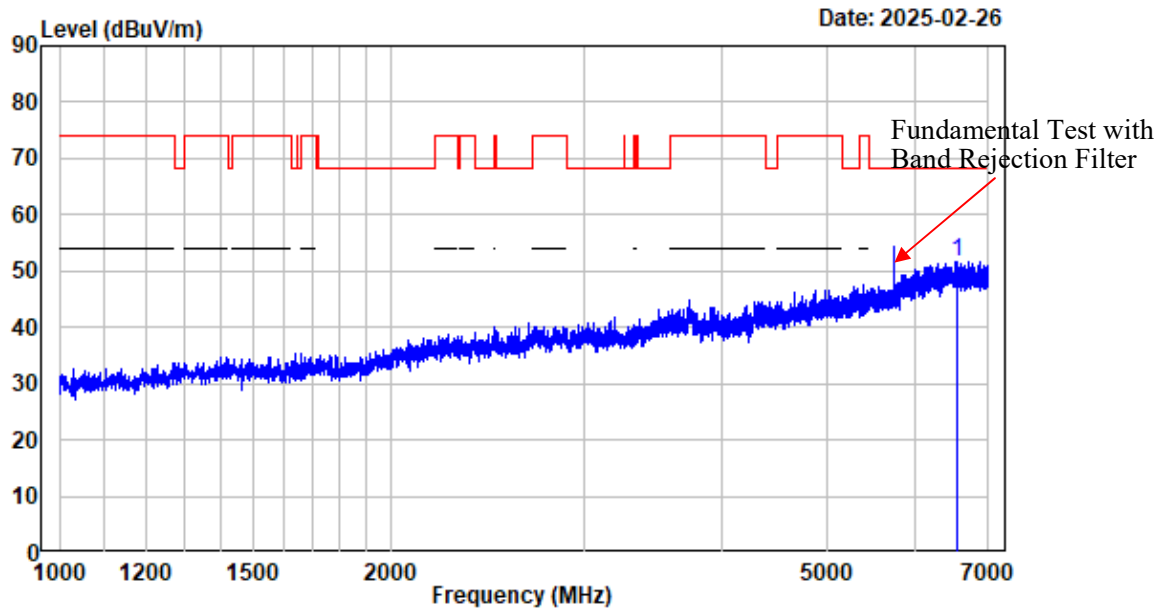


Condition : Vertical
 Project No. : 2501Q31691E-RF
 Tester : Visen Wu
 Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
 Note : 5GWiFi_B4_AX80_ANT0_5775

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5650.000	-5.86	71.09	65.23	68.20	-2.97	Peak
2	5700.000	-5.71	82.07	76.36	105.20	-28.84	Peak
3	5720.000	-5.53	83.68	78.15	110.80	-32.65	Peak
4	5725.000	-5.48	85.74	80.26	122.20	-41.94	Peak
5	5850.000	-4.68	79.83	75.15	122.20	-47.05	Peak
6	5855.000	-4.66	79.40	74.74	110.80	-36.06	Peak
7	5875.000	-4.57	74.96	70.39	105.20	-34.81	Peak
8	5925.000	-4.45	66.79	62.34	68.20	-5.86	Peak

Listed with the worst harmonic margin test plot: Module YL43456, 802.11a 5745MHz

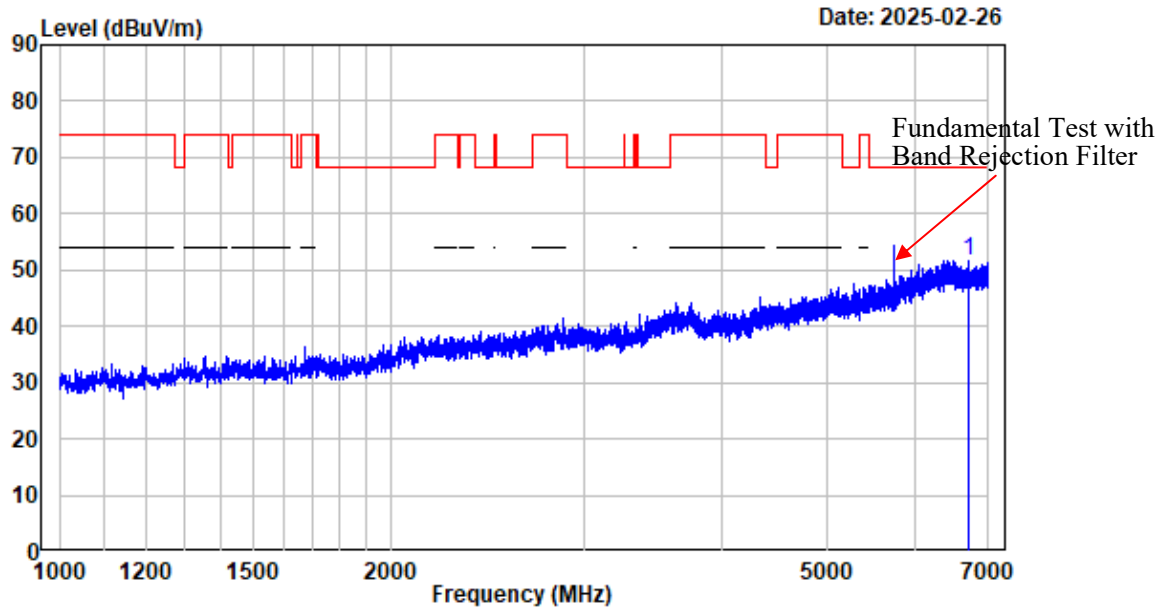
1-7GHz_Horizontal



Condition : Horizontal
 Project No. : 2501Q31691E-RF
 Tester : Visen Wu
 Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
 Note : 5GWiFi_B4_A_5745

	Freq	Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	6557.445	-3.06	54.84	51.78	68.20	-16.42	Peak

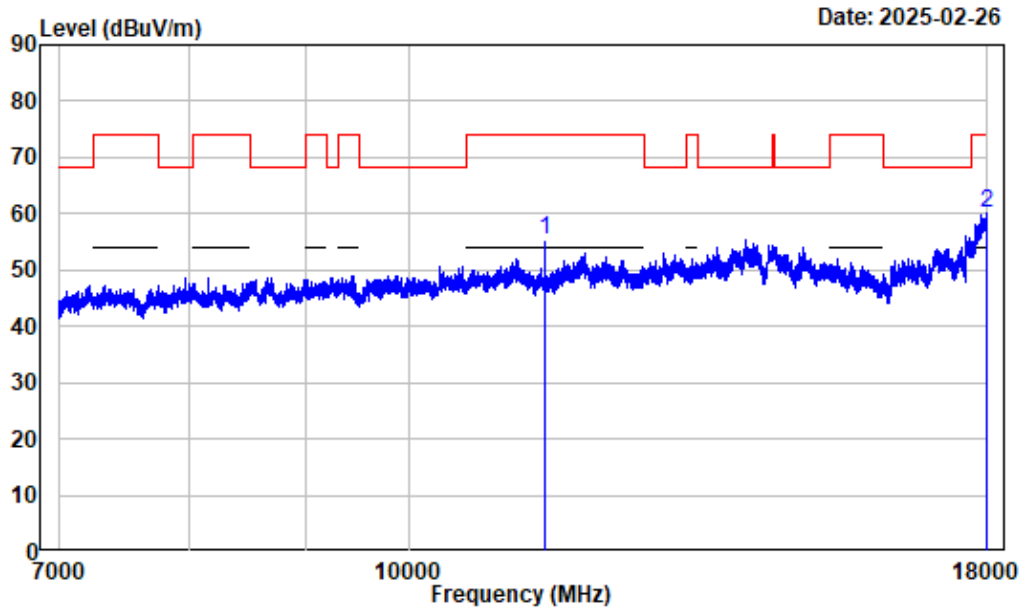
1-7GHz_Vertical



Condition : Vertical
Project No. : 2501Q31691E-RF
Tester : Visen Wu
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi_B4_A_5745

	Freq Factor		Read Level		Limit	Over	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	6727.716	-3.28	55.04	51.76	68.20	-16.44	Peak

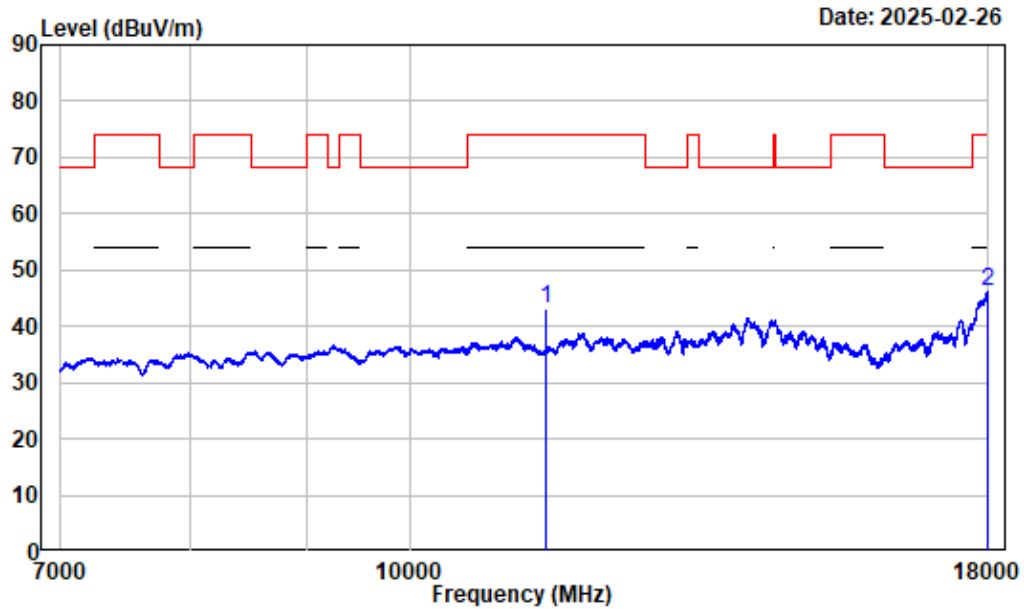
7-18GHz_Horizontal_Peak



Condition : Horizontal
Project No. : 2501Q31691E-RF
Tester : Visen Wu
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi_B4_A_5745

	Freq Factor		Read		Limit	Over	Remark
	MHz	dB/m	Level	Level	Line	Limit	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11490.000	3.54	51.92	55.46	74.00	-18.54	Peak
2	17976.620	13.09	47.05	60.14	74.00	-13.86	Peak

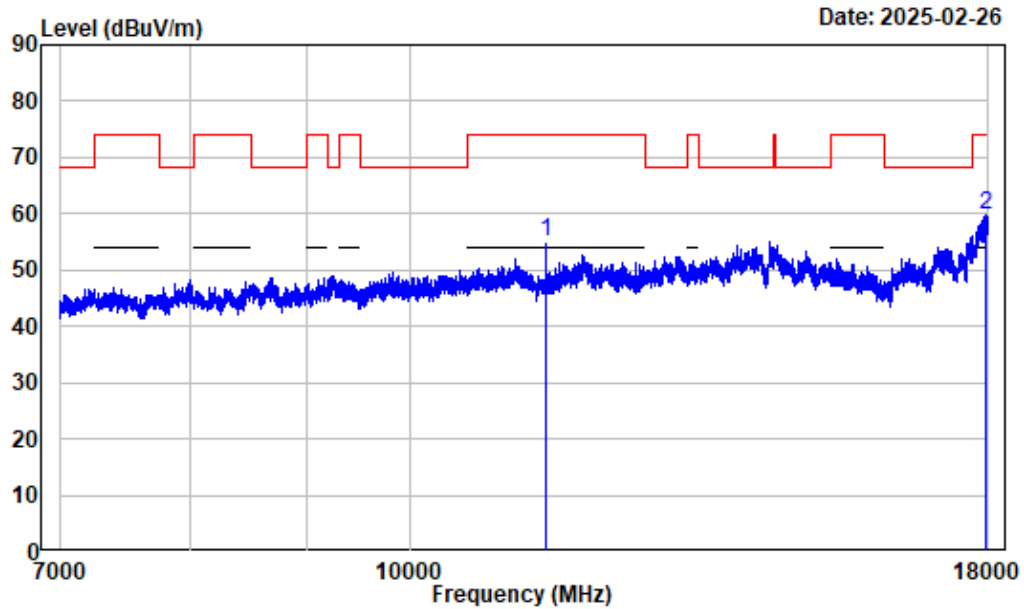
7-18GHz_Horizontal_Average



Condition : Horizontal
Project No. : 2501Q31691E-RF
Tester : Visen Wu
Spectrum setting: Average reading: RBW:1MHz VBW:1kHz Detector:Peak
Note : 5GWiFi_B4_A_5745

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11490.000	3.54	39.59	43.13	54.00	-10.87	Average
2	17995.880	13.18	33.12	46.30	54.00	-7.70	Average

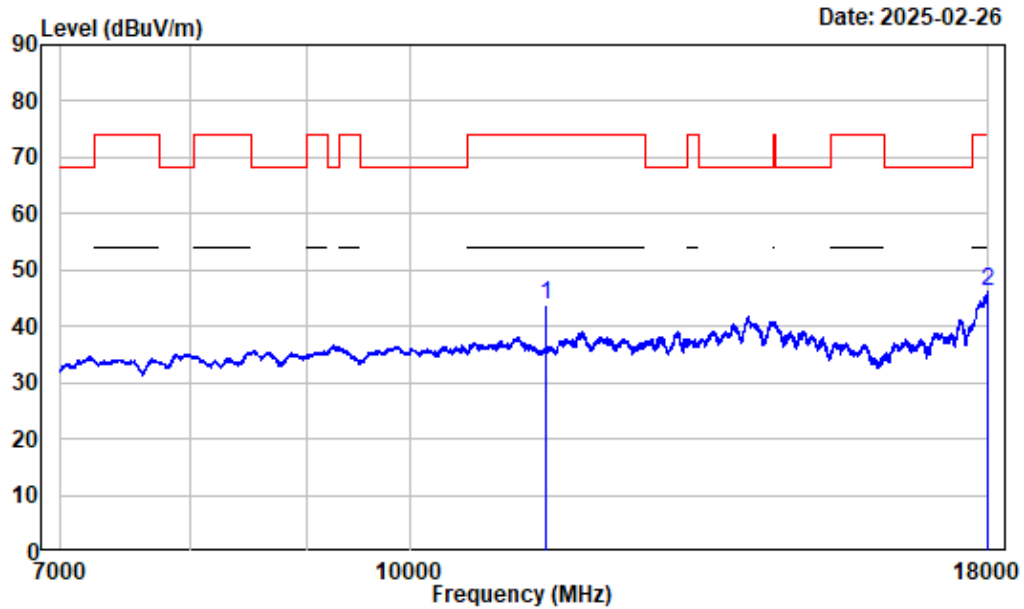
7-18GHz_Vertical_Peak



Condition : Vertical
Project No. : 2501Q31691E-RF
Tester : Visen Wu
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi_B4_A_5745

	Freq Factor		Read		Limit	Over	Remark
	MHz	dB/m	Level	Level	Line	Limit	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11490.000	3.54	51.52	55.06	74.00	-18.94	Peak
2	17943.620	12.92	46.73	59.65	74.00	-14.35	Peak

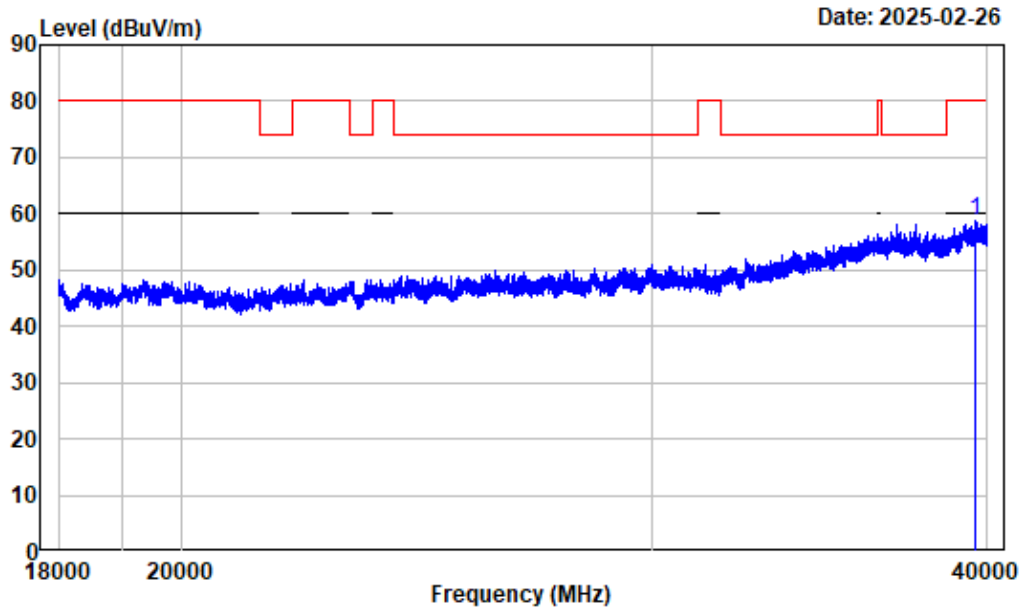
7-18GHz_Vertical_Average



Condition : Vertical
Project No. : 2501Q31691E-RF
Tester : Visen Wu
Spectrum setting: Average reading: RBW:1MHz VBW:1kHz Detector:Peak
Note : 5GWiFi_B4_A_5745

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	Line	Limit	
1	11490.000	3.54	40.43	43.97	54.00	-10.03 Average
2	17998.630	13.19	33.17	46.36	54.00	-7.64 Average

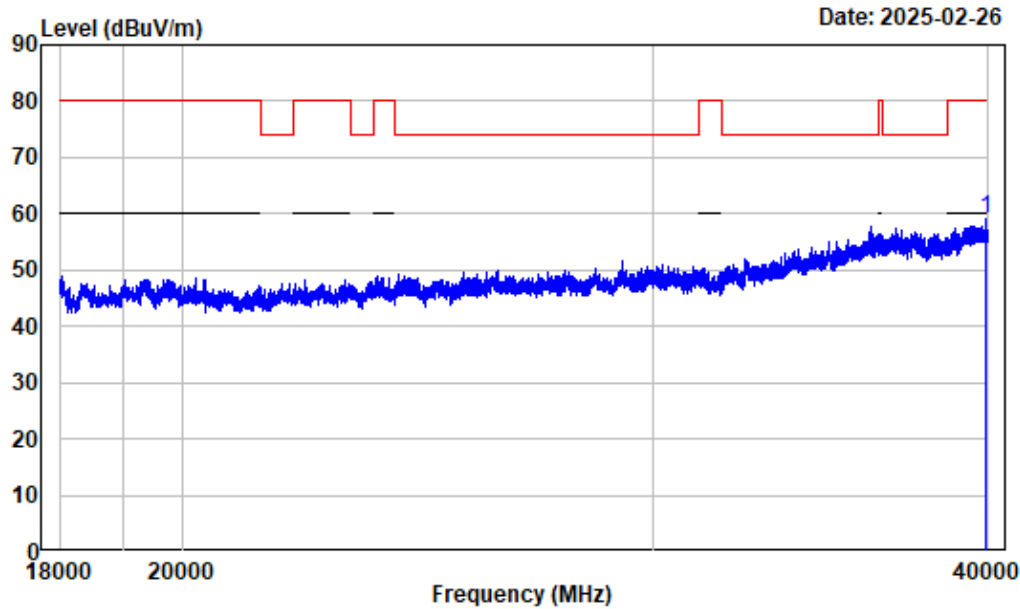
18-40GHz_Horizontal



Condition : Horizontal
Project No. : 2501Q31691E-RF
Tester : Visen Wu
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi_B4_A_5745

	Freq Factor		Read		Limit	Over	Remark
	MHz	dB/m	Level	Level	Line	Limit	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	39568.200	22.73	35.86	58.59	80.00	-21.41	Peak

18-40GHz_Vertical



Condition : Vertical
Project No. : 2501Q31691E-RF
Tester : Visen Wu
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5GWiFi_B4_A_5745

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	39903.740	22.55	36.65	59.20	80.00	-20.80 Peak

RF Conducted data

Please refer to Annex "Appendix A1&A2" for detail test data.

RF EXPOSURE EVALUATION

MPE-Based Exemption

Applicable Standard

According to subpart 2.1091 systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to RF energy level in excess of the communication guidelines.

According to KDB 447498 D04 v01 Interim General RF Exposure Guidance

MPE-Based Exemption:

General frequency and separation-distance dependent MPE-based effective radiated power(ERP) thresholds are in Table B.1 [Table 1 of § 1.1307(b)(3)(i)(C)] to support an exemption from further evaluation from 300 kHz through 100 GHz.

Table 1 to § 1.1307(b)(3)(i)(C) - Single RF Sources Subject to Routine Environmental Evaluation

RF Source frequency (MHz)	Threshold ERP (watts)
0.3-1.34	$1,920 R^2$.
1.34-30	$3,450 R^2/f^2$.
30-300	$3.83 R^2$.
300-1,500	$0.0128 R^2 f$.
1,500-100,000	$19.2 R^2$.

R is the minimum separation distance in meters

f = frequency in MHz

For multiple RF sources: Multiple RF sources are exempt if:

in the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation:

$$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{Exposure Limit_k} \leq 1$$

Result

Mode	Frequency (MHz)	Tune up conducted power [#] (dBm)	Antenna Gain [#]		ERP		Evaluation Distance (m)	ERP Limit (mW)
			(dBi)	(dBd)	(dBm)	(mW)		
For module YL43752								
BLE	2402-2480	7.5	3.05	0.90	8.40	6.92	0.2	768
2.4G Wi-Fi	2412-2462	22.0	3.37	1.22	23.22	209.89	0.2	768
5.2G Wi-Fi	5180-5240	15.5	1.47	-0.68	14.82	30.34	0.2	768
5.8G Wi-Fi	5745-5825	15.0	2.37	0.22	15.22	33.27	0.2	768
For module YL43456								
2.4G Wi-Fi	2412-2462	22.0	0.62	-1.53	20.47	111.43	0.2	768
5.2G Wi-Fi	5180-5240	17.5	1.41	-0.74	16.76	47.42	0.2	768
5.3G Wi-Fi	5260-5320	17.5	1.99	-0.16	17.34	54.20	0.2	768
5.6G Wi-Fi	5500-5720	17.5	2.18	0.03	17.53	56.62	0.2	768
5.8G Wi-Fi	5745-5825	17.0	2.00	-0.15	16.85	48.42	0.2	768

- Note: 1. The tune up conducted power and antenna gain was declared by the applicant.
 2. 0dBd=2.15dBi
 3. The BLE and Wi-Fi can transmit at same time, the 2.4G and 5G Wi-Fi cannot transmit at same time.
 4. The two Wi-Fi modules can transmit as same time.

Simultaneous transmitting consideration (worst case):

$$\text{The ratio} = \text{ERP}_{\text{BLE}} / \text{limit} + \text{ERP}_{2.4\text{G Wi-Fi}} / \text{limit} + \text{ERP}_{5\text{G}} / \text{limit} = 6.92/768 + 209.89/768 + 56.62/768 = 0.356 < 1.0$$

So simultaneous exposure is compliant.

To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

Result: Compliant

EUT PHOTOGRAPHS

Please refer to the attachment 2501Q31691E-RF External photo and 2501Q31691E-RF Internal photo.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2501Q31691E-RFB Test Setup photo.

******* END OF REPORT *******