

TEST REPORT

Applicant Name: INFINIX MOBILITY LIMITED
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25 SHAN MEI STREET FOTAN NT, Hong Kong
Report Number: SZ1231213-75213E-RF-00B
FCC ID: 2AIZN-X6871

Test Standard (s)

FCC PART 15.247

Sample Description

Product Type: Mobile Phone
Model No.: X6871
Multiple Model(s) No.: N/A
Trade Mark: Infinix
Date Received: 2024/01/17
Issue Date: 2024/03/15

Test Result:	Pass▲
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▲ In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:Michelle Zeng

Michelle Zeng
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	SZ1231213-75213E-RF-00B	Original Report	2024/03/15

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	Mobile Phone
Tested Model	X6871
Multiple Model(s)	N/A
Frequency Range	BLE: 2402-2480MHz Wi-Fi: 2412-2462MHz
Maximum Conducted Output Peak Power	BLE: 0.18dBm Wi-Fi: 23.63dBm
Modulation Technique	BLE: GFSK Wi-Fi: DSSS, OFDM, OFDMA
Antenna Specification [#]	BLE ANT/Wi-Fi ANT1: -4.3dBi Wi-Fi ANT2: -2.55dBi (provided by the applicant)
Voltage Range	DC 3.91V from battery or DC 5-11V from adapter
Sample serial number	2F5J-5 for Conducted and Radiated Emissions Test 2F5J-1 for RF Conducted Test (Assigned by BACL, Shenzhen)
Sample/EUT Status	Good condition
Adapter Information	Model: U450XSB Input: AC 100-240V~50/60Hz, 1.8A Output: DC 5.0V, 3.0A, 15.0W or 5.0-10.0V, 1.5A or 11.0V, 4.1A, 45.0W MAX

Objective

This test report is in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commission's rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 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.

And KDB 558074 D01 15.247 Meas Guidance v05r02.

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	$\pm 5\%$	
RF Frequency	213.55 Hz(k=2, 95% level of confidence)	
RF output power, conducted	0.72 dB(k=2, 95% level of confidence)	
Unwanted Emission, conducted	1.75 dB(k=2, 95% level of confidence)	
AC Power Lines Conducted Emissions	9 kHz~150 KHz	3.94dB(k=2, 95% level of confidence)
	150 kHz ~30MHz	3.84dB(k=2, 95% level of confidence)
Radiated Emissions	9kHz - 30MHz	3.30dB(k=2, 95% level of confidence)
	30MHz~200MHz (Horizontal)	4.48dB(k=2, 95% level of confidence)
	30MHz~200MHz (Vertical)	4.55dB(k=2, 95% level of confidence)
	200MHz~1000MHz (Horizontal)	4.85dB(k=2, 95% level of confidence)
	200MHz~1000MHz (Vertical)	5.05dB(k=2, 95% level of confidence)
	1GHz - 6GHz	5.35dB(k=2, 95% level of confidence)
	6GHz - 18GHz	5.44dB(k=2, 95% level of confidence)
	18GHz - 40GHz	5.16dB(k=2, 95% level of confidence)
Temperature	$\pm 1^\circ\text{C}$	
Humidity	$\pm 1\%$	
Supply voltages	$\pm 0.4\%$	

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

For 2.4GHz Wi-Fi mode, total 11 channels are provided to test:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	7	2442
2	2417	8	2447
3	2422	9	2452
4	2427	10	2457
5	2432	11	2462
6	2437	/	/

802.11b, 802.11g, 802.11n-HT20 and 802.11ax-HE20 mode was tested with Channel 1, 6 and 11.
802.11n-HT40 and 802.11ax-HE40 mode was tested with Channel 3, 6 and 9.

For BLE mode, 40 channels are provided to test:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	20	2442
1	2404	21	2444
2	2406	22	2446
3	2408	23	2448
4	2410	24	2450
5	2412	25	2452
6	2414	26	2454
7	2416	27	2456
8	2418	28	2458
9	2420	29	2460
10	2422	30	2462
11	2424	31	2464
12	2426	32	2466
13	2428	33	2468
14	2430	34	2470
15	2432	35	2472
16	2434	36	2474
17	2436	37	2476
18	2438	38	2478
19	2440	39	2480

For BLE 1M, EUT was tested with Channel 0, 19 and 39.

For BLE 2M, EUT was tested with Channel 1, 19 and 38.

Note: For BLE 2M, channel 0 and channel 39 was disabled.

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software

EUT was testing in engineering mode. The power level was provided by applicant.

The device was tested with the worst case was performed as below:

Mode	Data rate	ANT 1 Power Level [#]			ANT 2 Power Level [#]		
		Low Channel	Middle Channel	High Channel	Low Channel	Middle Channel	High Channel
802.11b	1Mbps	13	13	13	13	13	13
802.11g	6Mbps	13	13	13	13	13	13
802.11n-HT20	MCS0	13	13	13	13	13	13
802.11n-HT40	MCS0	13	13	13	13	13	13
802.11AX20	MCS0	13	13	13	13	13	13
802.11AX40	MCS0	13	13	13	13	13	13
BLE 1M	1Mbps	Default	Default	Default	/	/	/
BLE 2M	2Mbps	Default	Default	Default	/	/	/

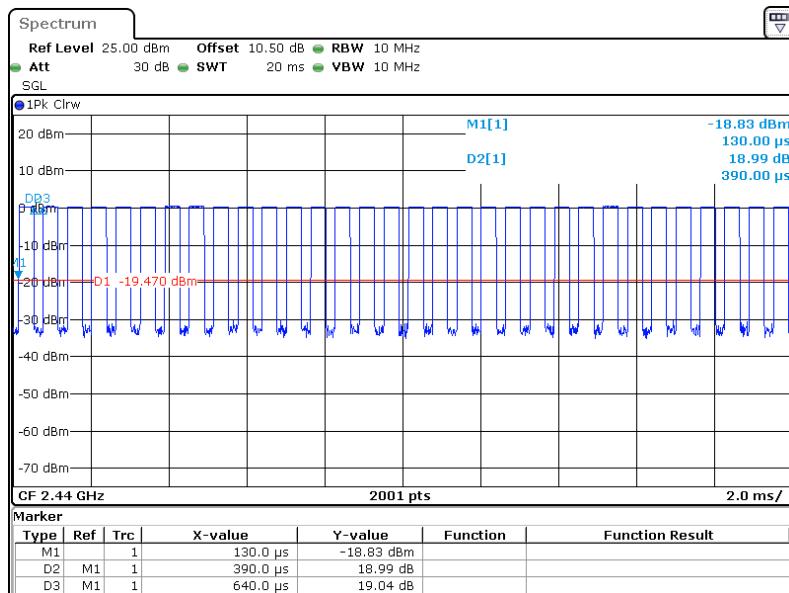
Note: According to manufacturer, For 802.11 b/g mode, the device only support SISO mode.

For 802.11 n/ax modes, the device support MIMO mode, all modes share the same power level setting under the same modulation. So the worst mode MIMO was selected to test.

Duty cycle

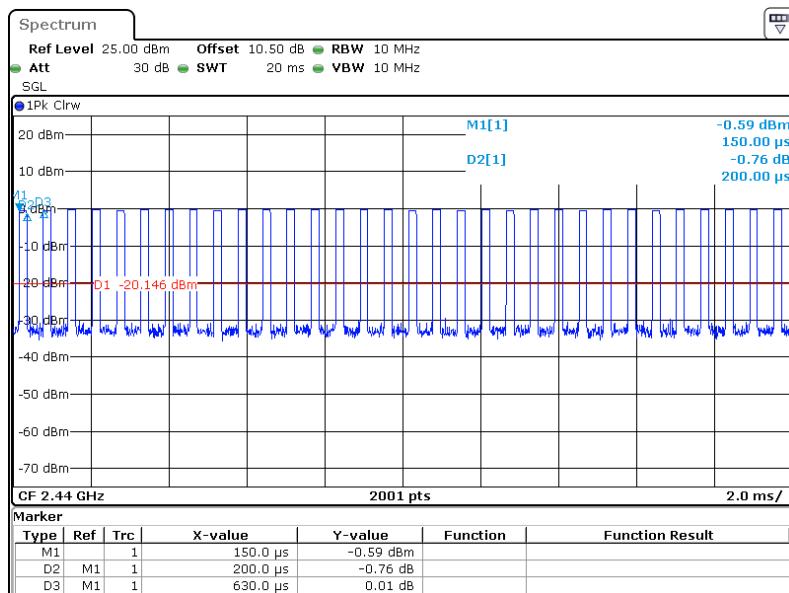
Test Modes	Ton (ms)	Ton+off (ms)	Duty Cycle (%)	1/T (Hz)	VBW Setting (Hz)
BLE 1Mbps	0.390	0.64	60.94	2564	3000
BLE 2Mbps	0.200	0.63	31.75	5000	5000

The test data of Wi-Fi please refer to the Appendix.

BLE 1M

ProjectNo.:SZ1231213-75213E Tester:Bamboo Zhan

Date: 30.JAN.2024 09:07:09

BLE 2M

ProjectNo.:SZ1231213-75213E Tester:Bamboo Zhan

Date: 31.JAN.2024 11:07:07

Support Equipment List and Details

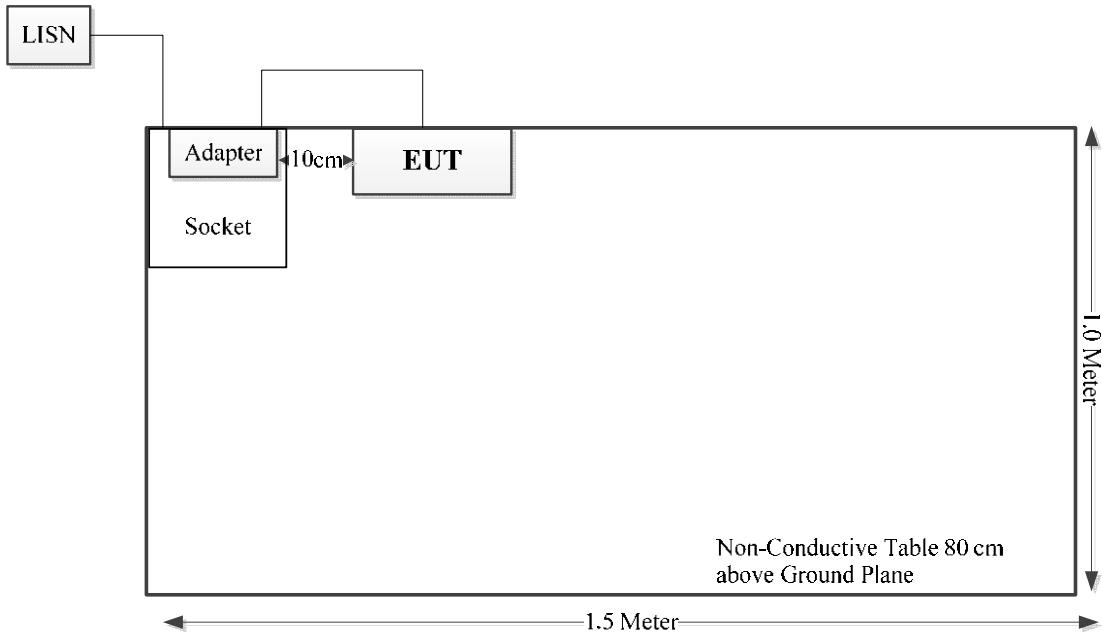
Manufacturer	Description	Model	Serial Number
Unknown	Socket	Unknown	Unknown

External I/O Cable

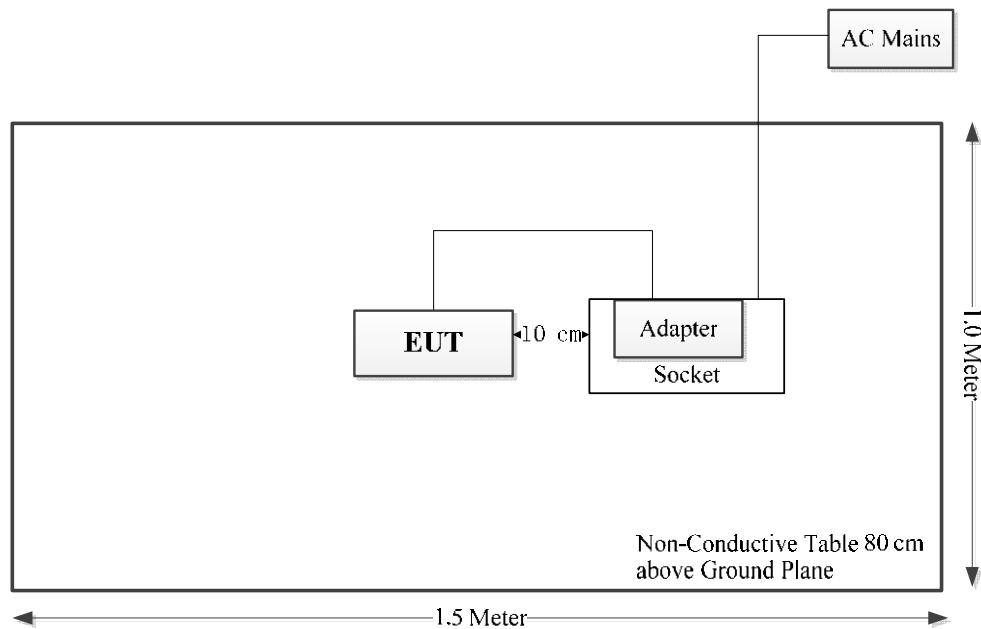
Cable Description	Length (m)	From Port	To
Un-shielding Detachable USB Cable	1.0	EUT	Adapter
Unshielded Un-detachable AC Cable	1.5	Socket	LISN/AC Main

Block Diagram of Test Setup

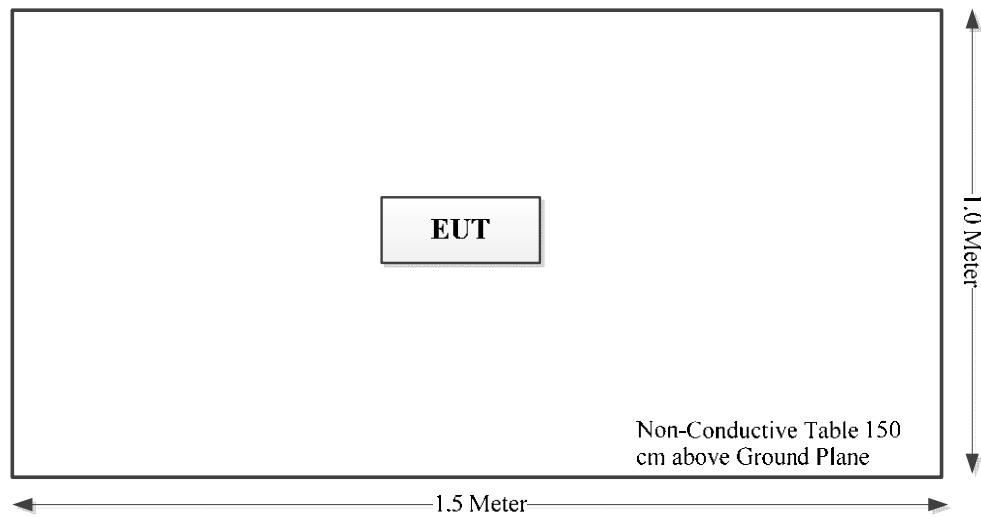
For Conducted Emissions:



Spurious emissions below 1GHz:



Spurious emissions above 1GHz:



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.247 (i), §1.1307 (b) (1) & §2.1093	RF Exposure	Compliant
§15.203	Antenna Requirement	Compliant
§15.207 (a)	AC Line Conducted Emissions	Compliant
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliant
§15.247 (a)(2)	6 dB Emission Bandwidth & Occupied Bandwidth	Compliant
§15.247(b)(3)	Maximum Conducted Output Power	Compliant
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliant
§15.247(e)	Power Spectral Density	Compliant

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted Emission Test					
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2023/02/08	2024/02/07
Rohde & Schwarz	LISN	ENV216	101613	2023/02/08	2024/02/07
Rohde & Schwarz	Transient Limiter	ESH3Z2	DE25985	2023/08/03	2024/08/02
Unknown	CE Cable	CE Cable	UF A210B-1-0720-504504	2023/08/03	2024/08/02
Audix	EMI Test software	E3	191218	NCR	NCR
Radiated Emission Test					
R&S	EMI Test Receiver	ESR3	102455	2024/01/16	2025/01/15
Sonoma instrument	Pre-amplifier	310 N	186238	2023/06/08	2024/06/07
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2023/07/20	2024/07/19
ETS	Passive Loop Antenna	6512	29604	2023/07/07	2024/07/06
Unknown	Cable	Chamber Cable 1	F-03-EM236	2023/08/03	2024/08/02
Unknown	Cable	Chamber Cable 4	EC-007	2023/08/03	2024/08/02
Rohde & Schwarz	Spectrum Analyzer	FSV40	101605	2023/04/18	2024/04/17
COM-POWER	Pre-amplifier	PA-122	181919	2023/06/29	2024/06/28
Schwarzbeck	Horn Antenna	BBHA9120D(1201)	1143	2023/07/26	2024/07/25
Unknown	RF Cable	KMSE	0735	2023/10/08	2024/10/07
Unknown	RF Cable	UFA147	219661	2023/10/08	2024/10/07
SNSD	2.4G Band Reject filter	BSF2402-2480MN-0898-001	2.4G filter	2023/08/03	2024/08/02
A.H.System	Pre-amplifier	PAM-1840VH	190	2023/08/03	2024/08/02
Electro-Mechanics	Horn Antenna	3116	9510-2270	2023/09/18	2026/09/17
Audix	EMI Test software	E3	191218(V9)	NCR	NCR
RF Conducted Test					
Tonscend	RF control Unit	JS0806-2	19D8060154	2023/09/06	2024/09/05
Agilent	USB wideband power sensor	U2021XA	MY52350001	2023/06/08	2024/06/07
Rohde & Schwarz	Signal and Spectrum Analyzer	FSV40	101473	2024/01/16	2025/01/15
R&S	spectrum analyzer	FSV40	101942	2023/12/18	2024/12/17
Unknown	10dB Attenuator	Unknown	F-03-EM190	2023/07/04	2024/07/03

*** 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).

FCC§15.247 (i), §1.1307 (b) (1) & §2.1093 – RF EXPOSURE

Applicable Standard

According to FCC §2.1093 and §1.1307(b) (1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

- a) According to KDB 447498 D01 General RF Exposure Guidance

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

- $$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$
1. $f(\text{GHz})$ is the RF channel transmit frequency in GHz.
 2. Power and distance are rounded to the nearest mW and mm before calculation.
 3. The result is rounded to one decimal place for comparison.
 4. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test Exclusion.

Measurement Result

For worst case:

For BLE:

Frequency (MHz)	Maximum Tune-up power [#]		Calculated Distance (mm)	Calculated Value	Threshold (1-g SAR)	SAR Test Exclusion
	(dBm)	(mW)				
2402-2480	0.5	1.12	5	0.4	3.0	Yes

Result: No Standalone SAR test is required

For Wi-Fi mode, please refer to SAR report: Please refer to SAR test report: SZ1231213-75213E-SA.

FCC §15.203 - ANTENNA REQUIREMENT

Applicable Standard

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used 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. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.
- c. Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Antenna Connector Construction

The EUT has two internal antennas arrangement, which were permanently attached, the antenna gain[#] is -4.3dBi(ANT 1), -2.55dBi (ANT 1), fulfill the requirement of this section. Please refer to the EUT photos.

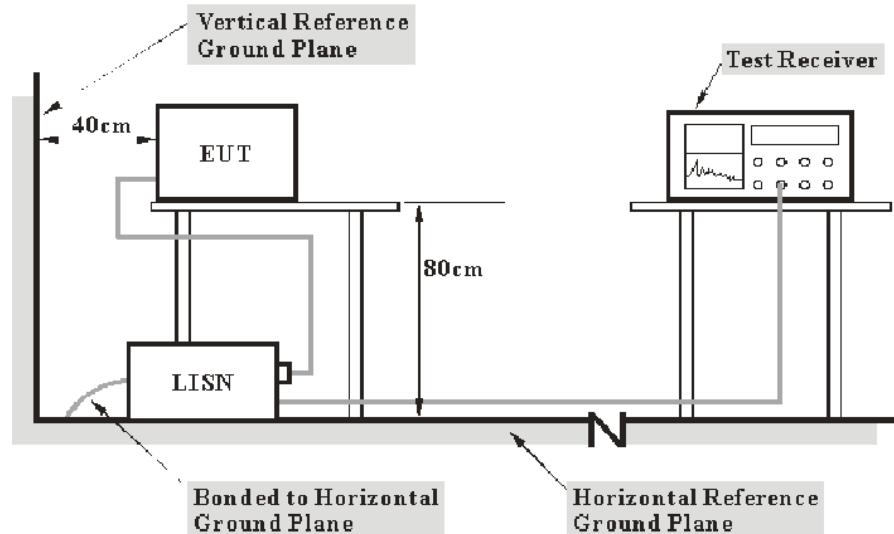
Result: Compliant

FCC §15.207 (a) – AC LINE 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	IF B/W
150 kHz – 30 MHz	9 kHz

Test Procedure

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

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

All final 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).

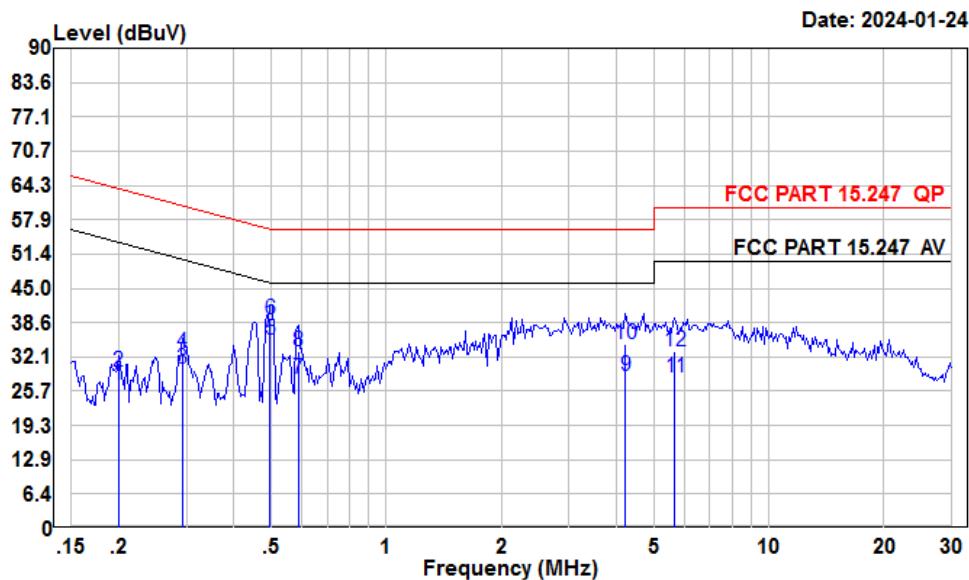
Test Data

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	54 %
ATM Pressure:	101 kPa

The testing was performed by Macy Shi on 2024-01-24.

EUT operation mode: Transmitting

BLE: (Maximum output power mode, BLE 1M Middle Channel)**AC 120V/60 Hz, Line**

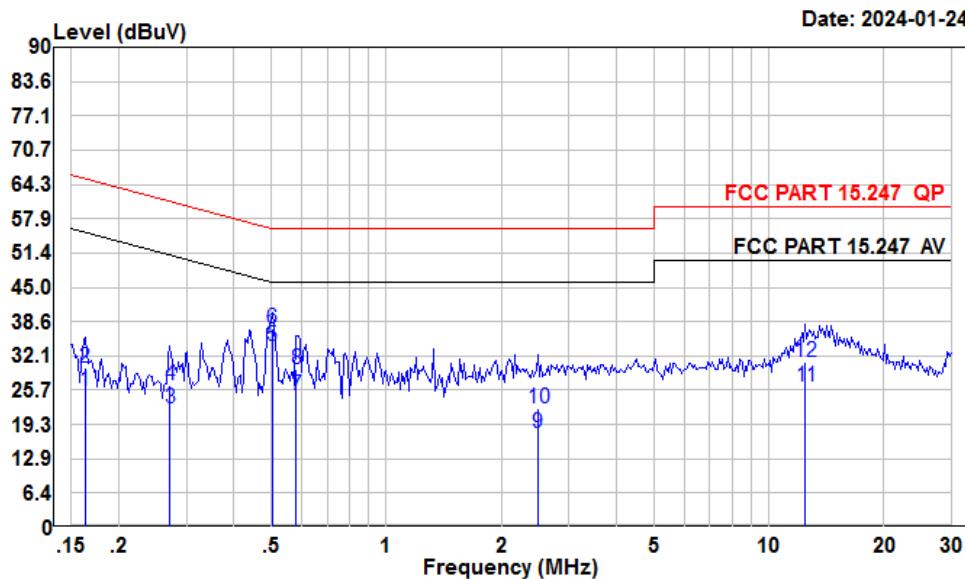
Condition: Line

Project : SZ1231213-75213E-RF

Tester : Macy shi

Note : BLE

Freq	Read Level	LISN Level	Cable Factor	Limit Loss	Line Limit	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB
1	0.20	6.12	26.81	10.60	10.09	53.62	-26.81 Average
2	0.20	8.57	29.26	10.60	10.09	63.62	-34.36 QP
3	0.29	9.20	29.97	10.64	10.13	50.46	-20.49 Average
4	0.29	12.13	32.90	10.64	10.13	60.46	-27.56 QP
5	0.50	14.60	35.45	10.70	10.15	46.05	-10.60 Average
6	0.50	18.18	39.03	10.70	10.15	56.05	-17.02 QP
7	0.59	7.10	28.01	10.70	10.21	46.00	-17.99 Average
8	0.59	12.29	33.20	10.70	10.21	56.00	-22.80 QP
9	4.22	7.57	28.44	10.62	10.25	46.00	-17.56 Average
10	4.22	13.54	34.41	10.62	10.25	56.00	-21.59 QP
11	5.68	7.34	28.29	10.73	10.22	50.00	-21.71 Average
12	5.68	12.10	33.05	10.73	10.22	60.00	-26.95 QP

AC 120V/60 Hz, Neutral

Condition: Neutral

Project : SZ1231213-75213E-RF

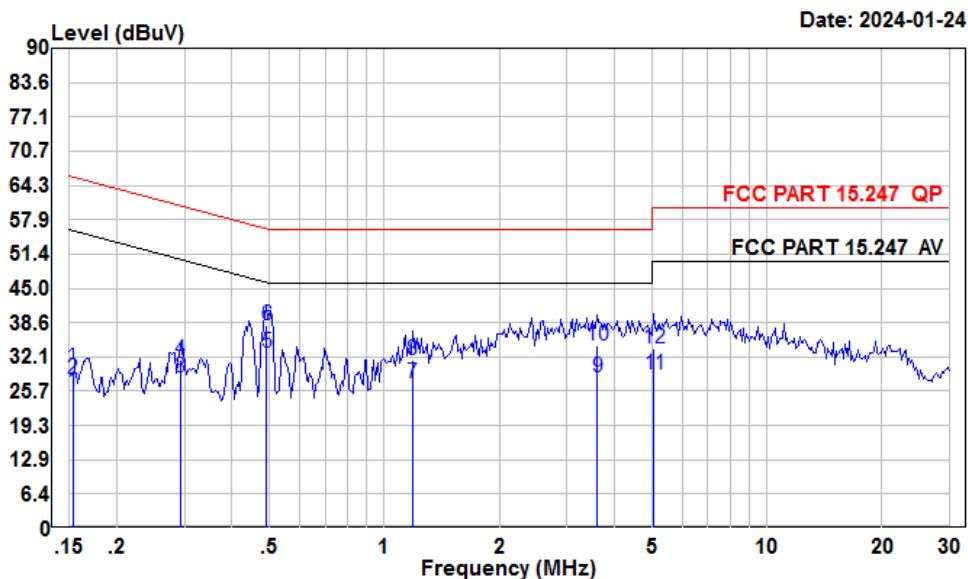
Tester : Macy shi

Note : BLE

Freq	Read	LISN	Cable	Limit	Over	Remark
	MHz	Level	Level Factor	Loss	Line	
1	0.16	4.83	25.54	10.56	10.15	55.30 -29.76 Average
2	0.16	9.17	29.88	10.56	10.15	65.30 -35.42 QP
3	0.27	1.36	22.26	10.73	10.17	51.07 -28.81 Average
4	0.27	5.78	26.68	10.73	10.17	61.07 -34.39 QP
5	0.50	12.99	33.94	10.80	10.15	46.00 -12.06 Average
6	0.50	16.20	37.15	10.80	10.15	56.00 -18.85 QP
7	0.58	3.84	24.71	10.66	10.21	46.00 -21.29 Average
8	0.58	8.73	29.60	10.66	10.21	56.00 -26.40 QP
9	2.49	-3.14	17.77	10.70	10.21	46.00 -28.23 Average
10	2.49	1.29	22.20	10.70	10.21	56.00 -33.80 QP
11	12.45	5.69	26.51	10.64	10.18	50.00 -23.49 Average
12	12.45	10.16	30.98	10.64	10.18	60.00 -29.02 QP

2.4G Wi-Fi: (Maximum output power mode, 802.11ax20_2412_242Tone_RU61, MIMO)

AC 120V/60 Hz, Line



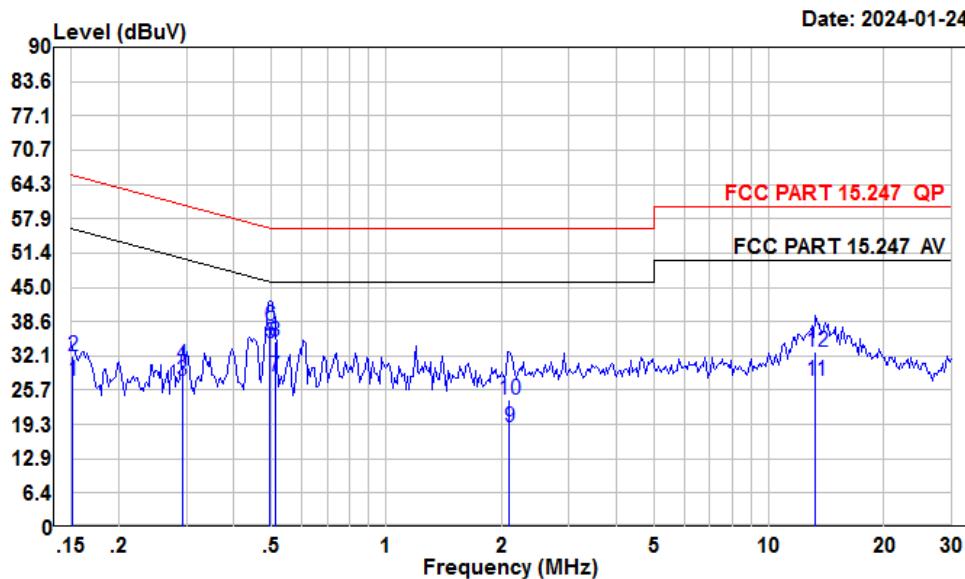
Condition: Line

Project : SZ1231213-75213E-RF

Tester : Macy shi

Note : 2.4G WIFI

Freq	Read	LISN	Cable	Limit	Over	Remark	
	Freq	Level	Level	Factor	Loss		
	MHz	dBuV	dBuV	dB	dB	dBuV	dB
1	0.15	4.74	25.49	10.60	10.15	55.82	-30.33 Average
2	0.15	7.21	27.96	10.60	10.15	65.82	-37.86 QP
3	0.29	7.62	28.39	10.64	10.13	50.46	-22.07 Average
4	0.29	10.84	31.61	10.64	10.13	60.46	-28.85 QP
5	0.49	12.04	32.90	10.70	10.16	46.14	-13.24 Average
6	0.49	17.14	38.00	10.70	10.16	56.14	-18.14 QP
7	1.18	6.31	27.09	10.72	10.06	46.00	-18.91 Average
8	1.18	10.76	31.54	10.72	10.06	56.00	-24.46 QP
9	3.60	7.52	28.41	10.63	10.26	46.00	-17.59 Average
10	3.60	13.26	34.15	10.63	10.26	56.00	-21.85 QP
11	5.06	8.00	28.90	10.68	10.22	50.00	-21.10 Average
12	5.06	12.84	33.74	10.68	10.22	60.00	-26.26 QP

AC 120V/60 Hz, Neutral

Condition: Neutral

Project : SZ1231213-75213E-RF

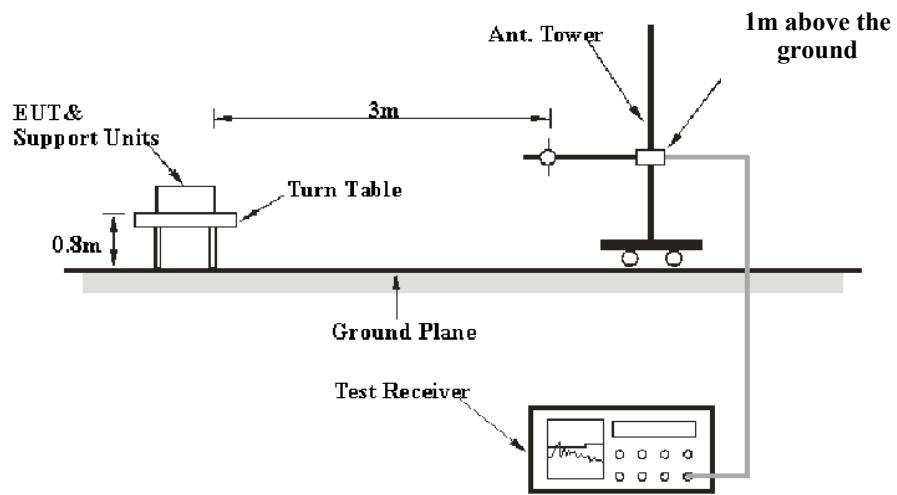
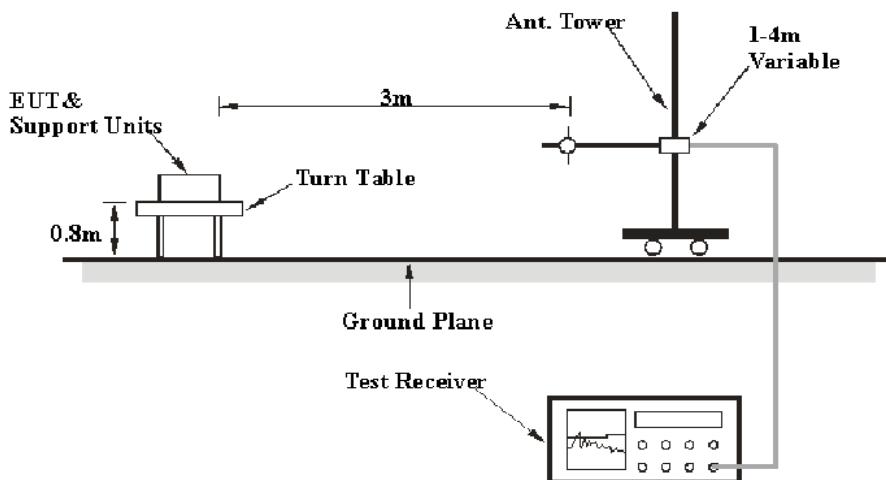
Tester : Macy shi

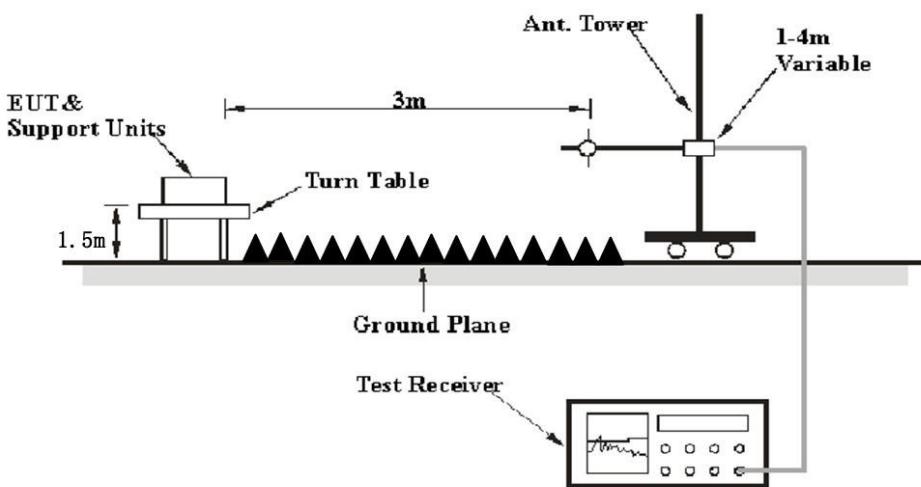
Note : 2.4G WIFI

Freq	Read	LISN	Cable	Limit	Over	Remark
	MHz	dBuV	dBuV	dB	dBuV	
1	0.15	6.76	27.42	10.51	10.15	55.91 -28.49 Average
2	0.15	11.44	32.10	10.51	10.15	65.91 -33.81 QP
3	0.29	6.65	27.52	10.74	10.13	50.46 -22.94 Average
4	0.29	9.62	30.49	10.74	10.13	60.46 -29.97 QP
5	0.50	13.68	34.63	10.80	10.15	46.05 -11.42 Average
6	0.50	16.94	37.89	10.80	10.15	56.05 -18.16 QP
7	0.51	7.33	28.27	10.78	10.16	46.00 -17.73 Average
8	0.51	13.98	34.92	10.78	10.16	56.00 -21.08 QP
9	2.10	-2.14	18.75	10.70	10.19	46.00 -27.25 Average
10	2.10	3.10	23.99	10.70	10.19	56.00 -32.01 QP
11	13.27	6.66	27.41	10.59	10.16	50.00 -22.59 Average
12	13.27	12.03	32.78	10.59	10.16	60.00 -27.22 QP

FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS**Applicable Standard**

FCC §15.247 (d); §15.209; §15.205;

EUT Setup**9 kHz-30MHz:****30MHz-1GHz:**

Above 1GHz:

The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.247 limits.

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9 kHz to 25 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
9 kHz – 150 kHz	/	/	200 Hz	QP
	300 Hz	1 kHz	/	PK
150 kHz – 30 MHz	/	/	9 kHz	QP
	10 kHz	30 kHz	/	PK
30 MHz – 1000 MHz	/	/	120 kHz	QP
	100 kHz	300 kHz	/	PK

1-25GHz:

Measurement	Duty cycle	RBW	Video B/W
PK	Any	1MHz	3 MHz
AV	>98%	1MHz	10 Hz
	<98%	1MHz	$\geq 1/T$

Note: T is minimum transmission duration

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

Test Procedure

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

Factor & 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:

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

Test Data

Environmental Conditions

Temperature:	23~26 °C
Relative Humidity:	49~55 %
ATM Pressure:	101 kPa

The testing was performed by Warren Huang on 2024-01-20 for below 1GHz, Zenos Qiao on 2024-03-08 for above 1GHz.

EUT operation mode: Transmitting

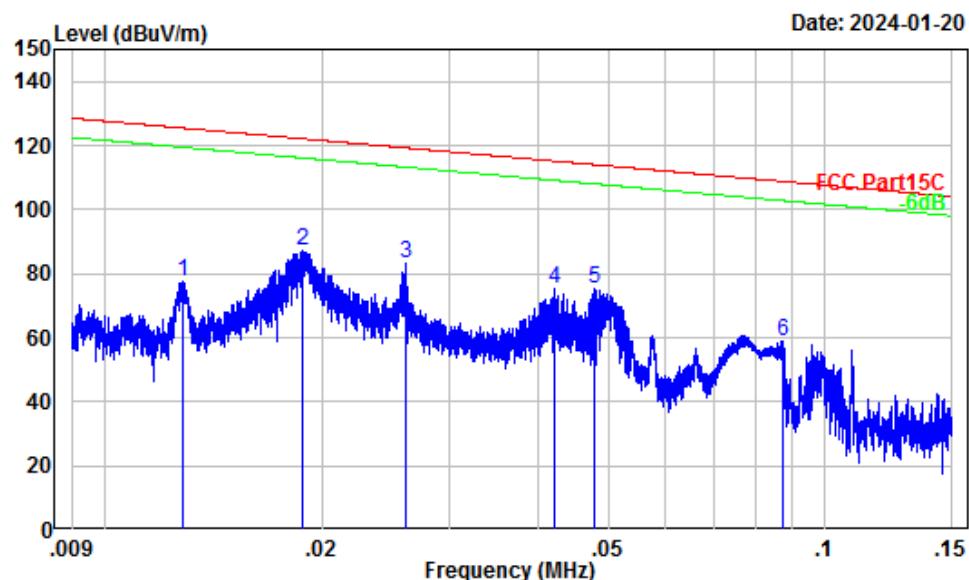
Note: Pre-scan in the X, Y and Z axes of orientation, the worst case Y-axis of orientation was recorded.

9 kHz-30MHz:

Note: When the test result of peak was less than the limit of QP/Average more than 6dB, just peak value were recorded.

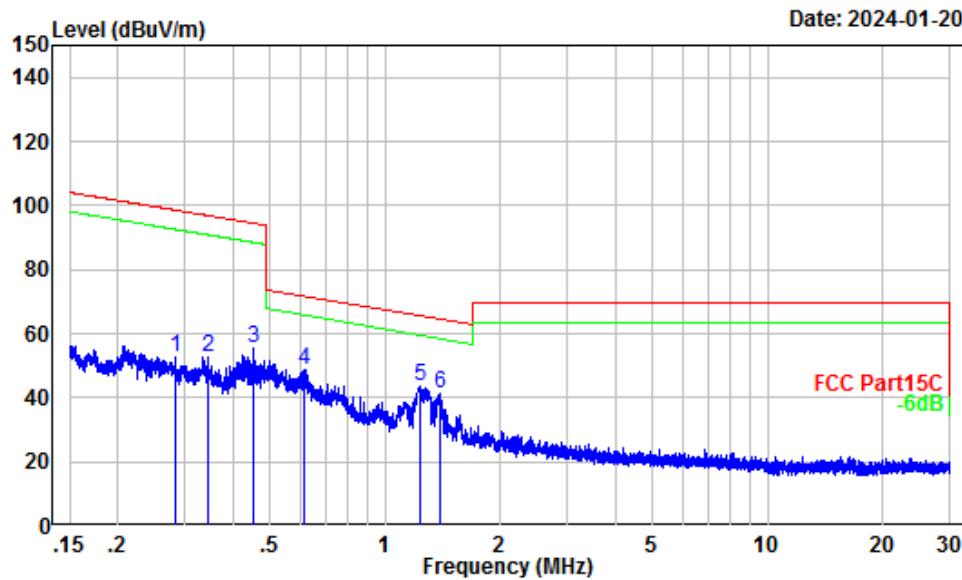
Parallel (worst case)

BLE: (Maximum output power mode, BLE 1M Middle Channel)



Site : chamber
Condition : 3m
Project Number: SZ1231213-75213E-RF
Note : BLE
Tester : Warren Huang

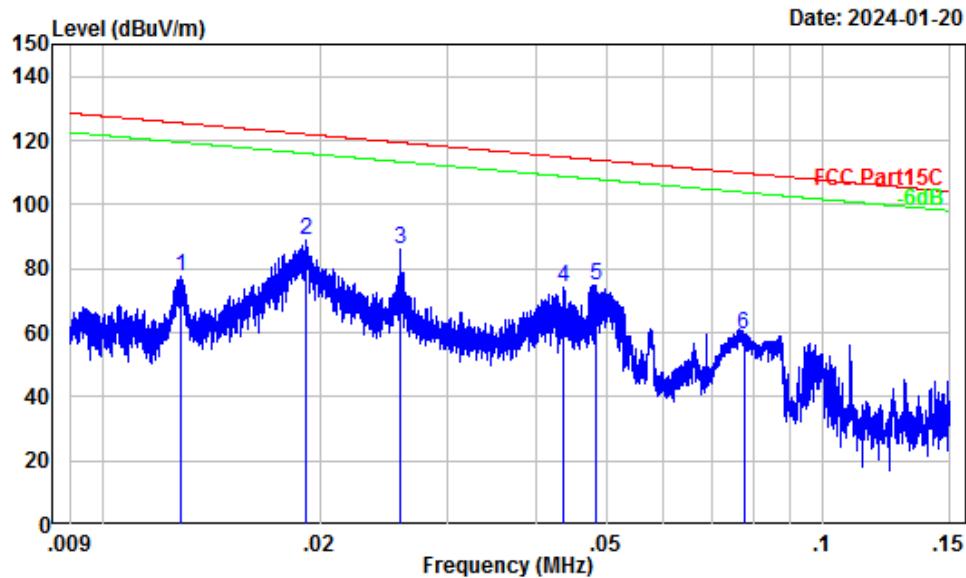
Freq	Factor	Read	Limit	Over	Remark
		Level	Level	Line	
1	0.01	52.45	25.04	77.49	-47.96 Peak
2	0.02	50.58	36.69	87.27	122.10 -34.83 Peak
3	0.03	48.32	34.79	83.11	119.23 -36.12 Peak
4	0.04	43.40	31.73	75.13	115.10 -39.97 Peak
5	0.05	41.68	33.40	75.08	114.02 -38.94 Peak
6	0.09	35.90	22.98	58.88	108.80 -49.92 Peak



Site : chamber
Condition : 3m
Project Number: SZ1231213-75213E-RF
Note : BLE
Tester : Warren Huang

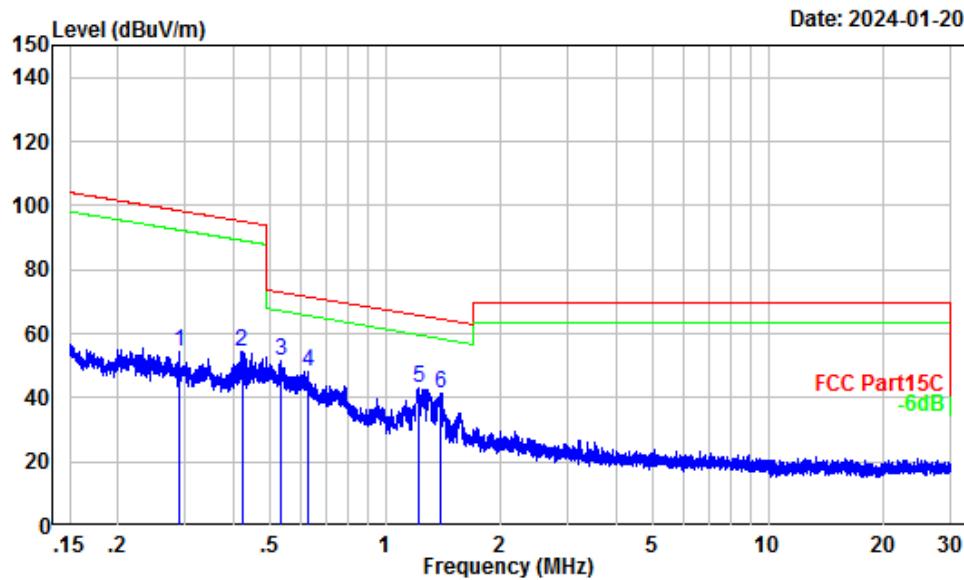
Freq	Factor	Read	Limit	Over	Remark
		Level	Level	Line	
1	0.28	26.06	26.83	52.89	-45.70 Peak
2	0.34	24.06	28.37	52.43	-44.43 Peak
3	0.46	21.58	33.81	55.39	-39.05 Peak
4	0.61	19.49	29.41	48.90	-22.90 Peak
5	1.23	14.30	29.33	43.63	-22.00 Peak
6	1.40	13.48	28.07	41.55	-22.96 Peak

2.4G Wi-Fi: (Maximum output power mode, 802.11ax20 2412_242Tone_RU61, MIMO)



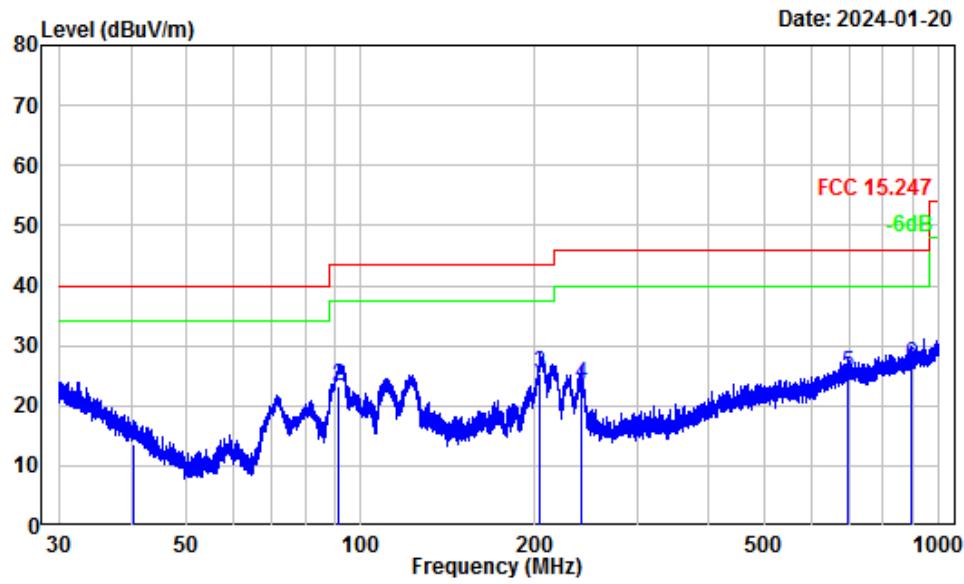
Site : chamber
Condition : 3m
Project Number: SZ1231213-75213E-RF
Note : 2.4G WIFI
Tester : Warren Huang

	Freq	Factor	Read Level	Limit Level	Line	Over Limit	Remark	
			MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB
1	0.01	52.45	24.83	77.28	125.46	-48.18	Peak	
2	0.02	50.50	38.55	89.05	121.96	-32.91	Peak	
3	0.03	48.44	37.65	86.09	119.36	-33.27	Peak	
4	0.04	42.99	30.92	73.91	114.83	-40.92	Peak	
5	0.05	41.53	33.41	74.94	113.93	-38.99	Peak	
6	0.08	37.22	22.44	59.66	109.81	-50.15	Peak	



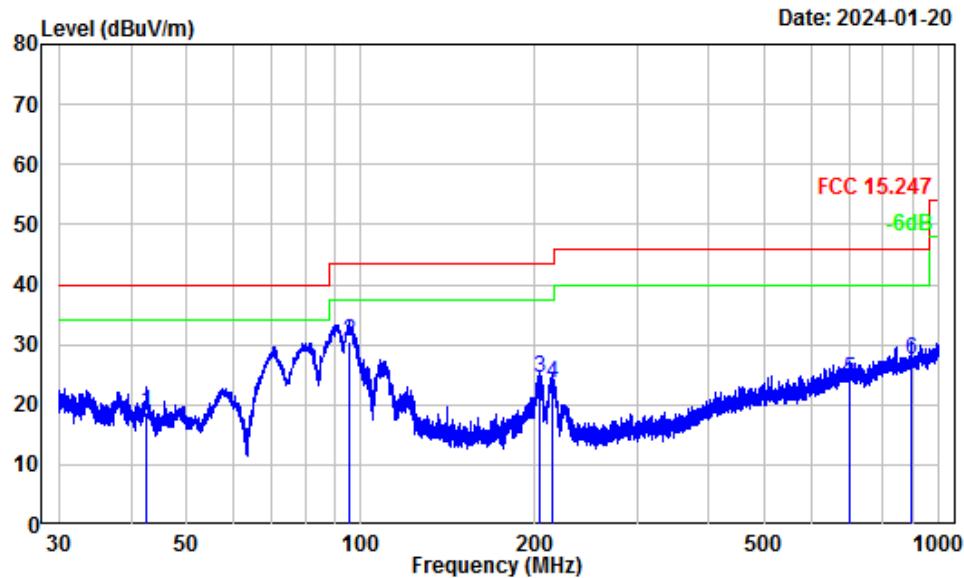
Site : chamber
Condition : 3m
Project Number: SZ1231213-75213E-RF
Note : 2.4G WIFI
Tester : Warren Huang

Freq	Factor	Read	Limit	Over	Remark
		Level	Level	Line	
1	0.29	25.84	28.58	54.42	-43.98 Peak
2	0.42	22.04	32.13	54.17	-40.93 Peak
3	0.53	20.52	31.22	51.74	-21.30 Peak
4	0.63	19.31	28.90	48.21	-23.41 Peak
5	1.22	14.34	28.87	43.21	65.70 -22.49 Peak
6	1.39	13.49	27.66	41.15	64.53 -23.38 Peak

30MHz-1GHz:*BLE: (Maximum output power mode, BLE 1M Middle Channel)***Horizontal**

Site : chamber
Condition : 3m Horizontal
Project Number: SZ1231213-75213E-RF
Note : BLE
Tester : Warren Huang

Freq	Factor	Read	Limit	Over	Remark
		Level	Level	Line	
1	40.36	-10.62	24.20	13.58	40.00 -26.42 QP
2	91.13	-16.24	39.57	23.33	43.50 -20.17 QP
3	204.24	-11.09	36.50	25.41	43.50 -18.09 QP
4	239.88	-11.69	35.28	23.59	46.00 -22.41 QP
5	696.86	-1.57	26.90	25.33	46.00 -20.67 QP
6	897.78	0.98	25.90	26.88	46.00 -19.12 QP

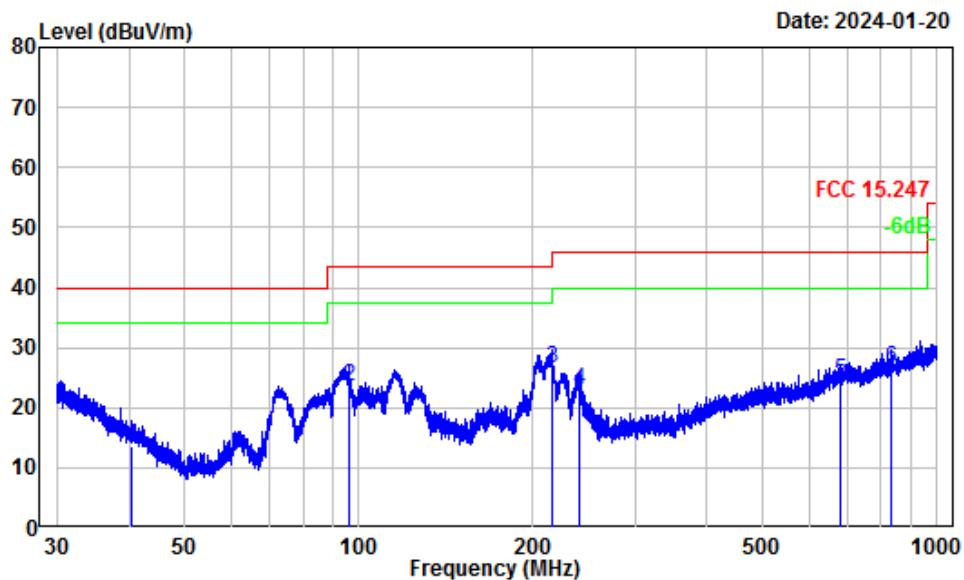
Vertical

Site : chamber
Condition : 3m Vertical
Project Number: SZ1231213-75213E-RF
Note : BLE
Tester : Warren Huang

Freq	Factor	Read		Limit		Over Limit	Remark
		MHz	dB/m	dB _{uV}	dB _{uV/m}		
1	42.41	-13.26	32.04	18.78	40.00	-21.22	QP
2	95.39	-16.21	46.60	30.39	43.50	-13.11	QP
3	203.88	-12.24	36.61	24.37	43.50	-19.13	QP
4	214.80	-12.24	35.70	23.46	43.50	-20.04	QP
5	698.39	-1.94	26.16	24.22	46.00	-21.78	QP
6	895.82	0.55	26.96	27.51	46.00	-18.49	QP

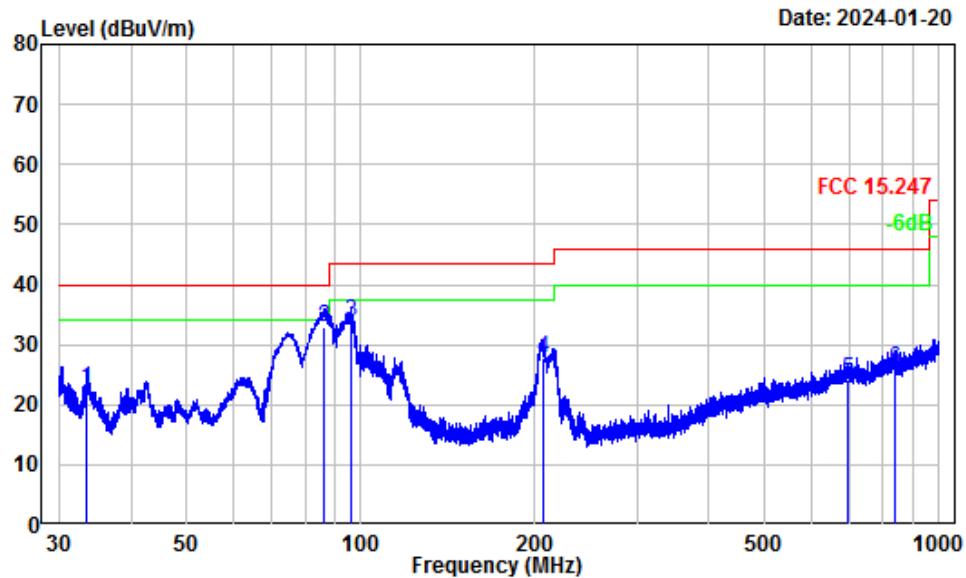
2.4G Wi-Fi: (Maximum output power mode, 802.11ax20 2412_242Tone_RU61, MIMO)

Horizontal



Site : chamber
Condition : 3m Horizontal
Project Number: SZ1231213-75213E-RF
Note : 2.4G WIFI
Tester : Warren Huang

	Freq	Read Factor	Level	Limit Level	Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	40.31	-10.59	24.30	13.71	40.00	-26.29	QP
2	95.89	-14.89	38.56	23.67	43.50	-19.83	QP
3	215.27	-11.29	37.83	26.54	43.50	-16.96	QP
4	240.94	-11.70	34.55	22.85	46.00	-23.15	QP
5	679.66	-1.89	26.22	24.33	46.00	-21.67	QP
6	833.68	-0.06	26.68	26.62	46.00	-19.38	QP

Vertical

Site : chamber
Condition : 3m Vertical
Project Number: SZ1231213-75213E-RF
Note : 2.4G WIFI
Tester : Warren Huang

	Freq	Factor	Read Level	Limit Level	Over Line	Over Limit	Remark
			MHz	dB/m	dB _{uV}	dB _{uV/m}	dB _{uV/m}
1	33.59	-7.87	30.50	22.63	40.00	-17.37	QP
2	86.16	-17.30	50.09	32.79	40.00	-7.21	QP
3	95.89	-16.10	49.83	33.73	43.50	-9.77	QP
4	206.94	-12.24	39.93	27.69	43.50	-15.81	QP
5	697.47	-1.96	26.07	24.11	46.00	-21.89	QP
6	842.13	-0.19	26.05	25.86	46.00	-20.14	QP

1-25 GHz:

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)					
	Reading (dB μ V)	PK/Ave		Height (m)	Polar (H/V)									
BLE 1M														
Low Channel 2402MHz														
4804.00	47.58	PK	36	1.3	H	2.42	50.00	74	-24.00					
4804.00	32.79	AV	36	1.3	H	2.42	35.21	54	-18.79					
4804.00	47.31	PK	329	2.2	V	2.42	49.73	74	-24.27					
4804.00	32.65	AV	329	2.2	V	2.42	35.07	54	-18.93					
Middle Channel 2440MHz														
4880.00	47.29	PK	279	1.6	H	2.56	49.85	74	-24.15					
4880.00	32.48	AV	279	1.6	H	2.56	35.04	54	-18.96					
4880.00	47.13	PK	116	1.2	V	2.56	49.69	74	-24.31					
4880.00	32.34	AV	116	1.2	V	2.56	34.90	54	-19.10					
High Channel 2480MHz														
4960.00	46.92	PK	43	1.2	H	2.68	49.60	74	-24.40					
4960.00	32.27	AV	43	1.2	H	2.68	34.95	54	-19.05					
4960.00	46.75	PK	352	1.3	V	2.68	49.43	74	-24.57					
4960.00	32.14	AV	352	1.3	V	2.68	34.82	54	-19.18					
BLE 2M														
Low Channel 2404MHz														
4808.00	47.78	PK	210	1.4	H	2.42	50.20	74	-23.80					
4808.00	33.25	AV	210	1.4	H	2.42	35.67	54	-18.33					
4808.00	47.56	PK	35	1.3	V	2.42	49.98	74	-24.02					
4808.00	33.09	AV	35	1.3	V	2.42	35.51	54	-18.49					
Middle Channel 2440MHz														
4880.00	47.39	PK	337	2.2	H	2.56	49.95	74	-24.05					
4880.00	33.02	AV	337	2.2	H	2.56	35.58	54	-18.42					
4880.00	47.21	PK	231	1.6	V	2.56	49.77	74	-24.23					
4880.00	32.87	AV	231	1.6	V	2.56	35.43	54	-18.57					
High Channel 2478MHz														
4956.00	46.94	PK	187	1.0	H	2.61	49.55	74	-24.45					
4956.00	32.81	AV	187	1.0	H	2.61	35.42	54	-18.58					
4956.00	46.77	PK	317	2.0	V	2.61	49.38	74	-24.62					
4956.00	32.64	AV	317	2.0	V	2.61	35.25	54	-18.75					

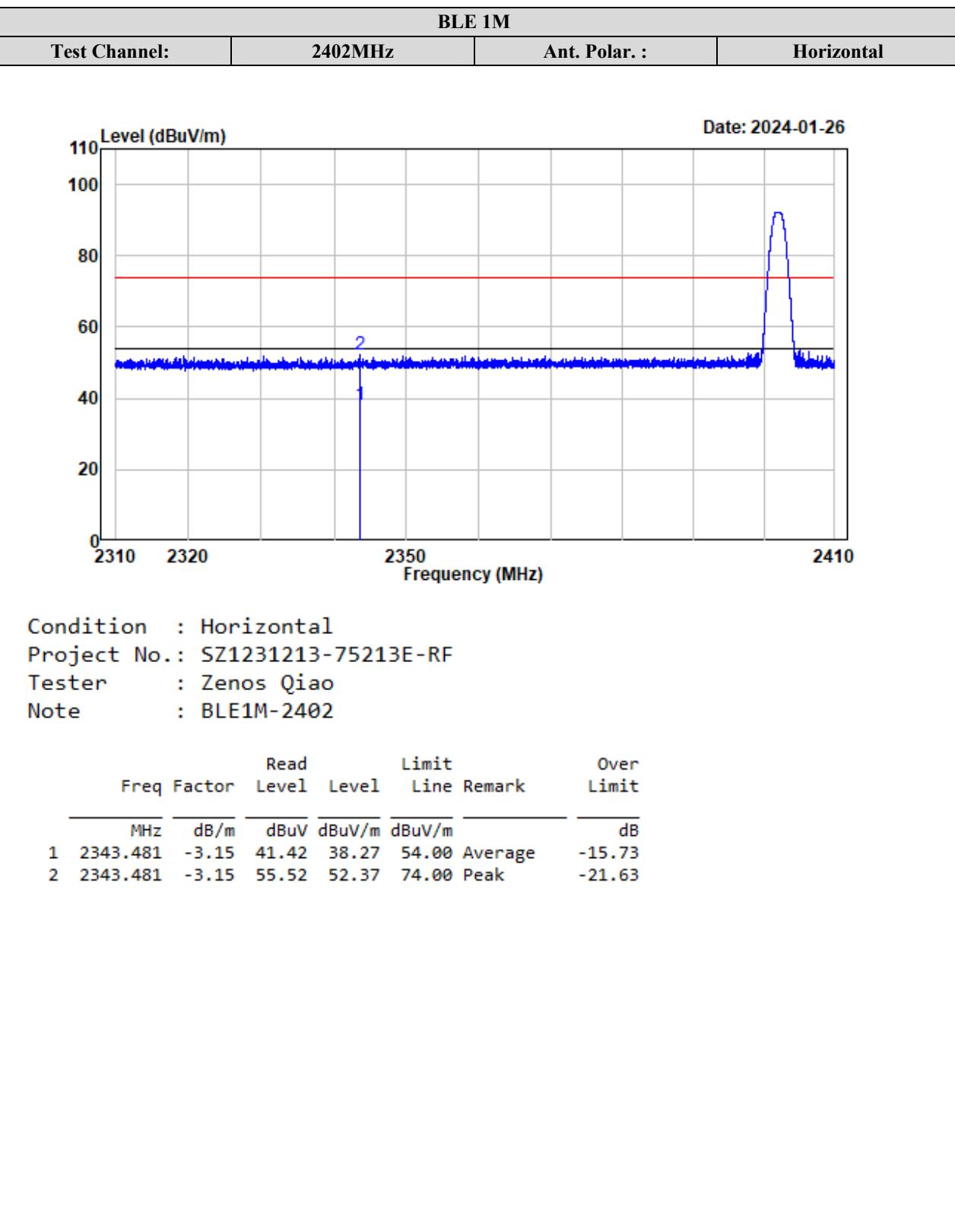
Note:

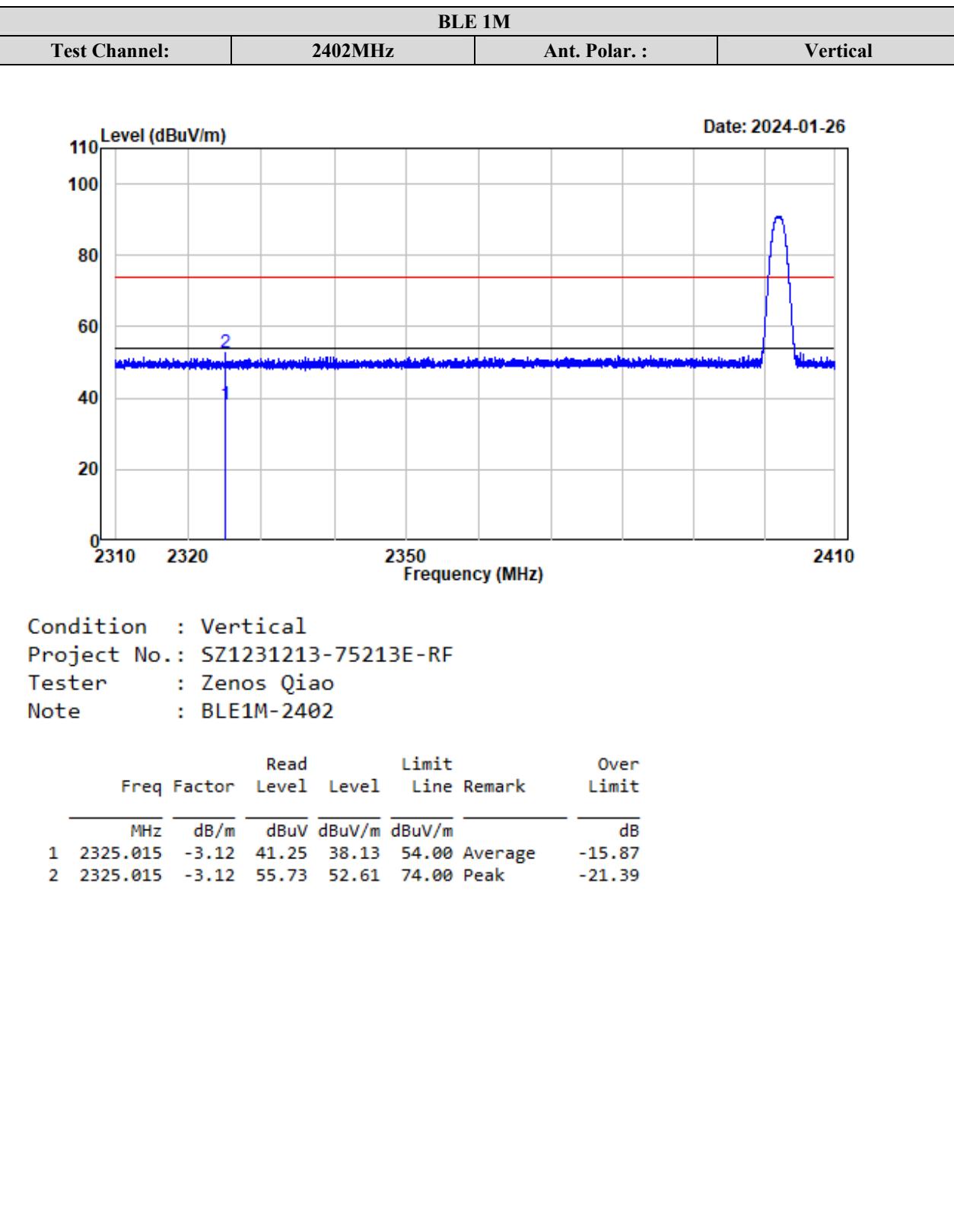
Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor

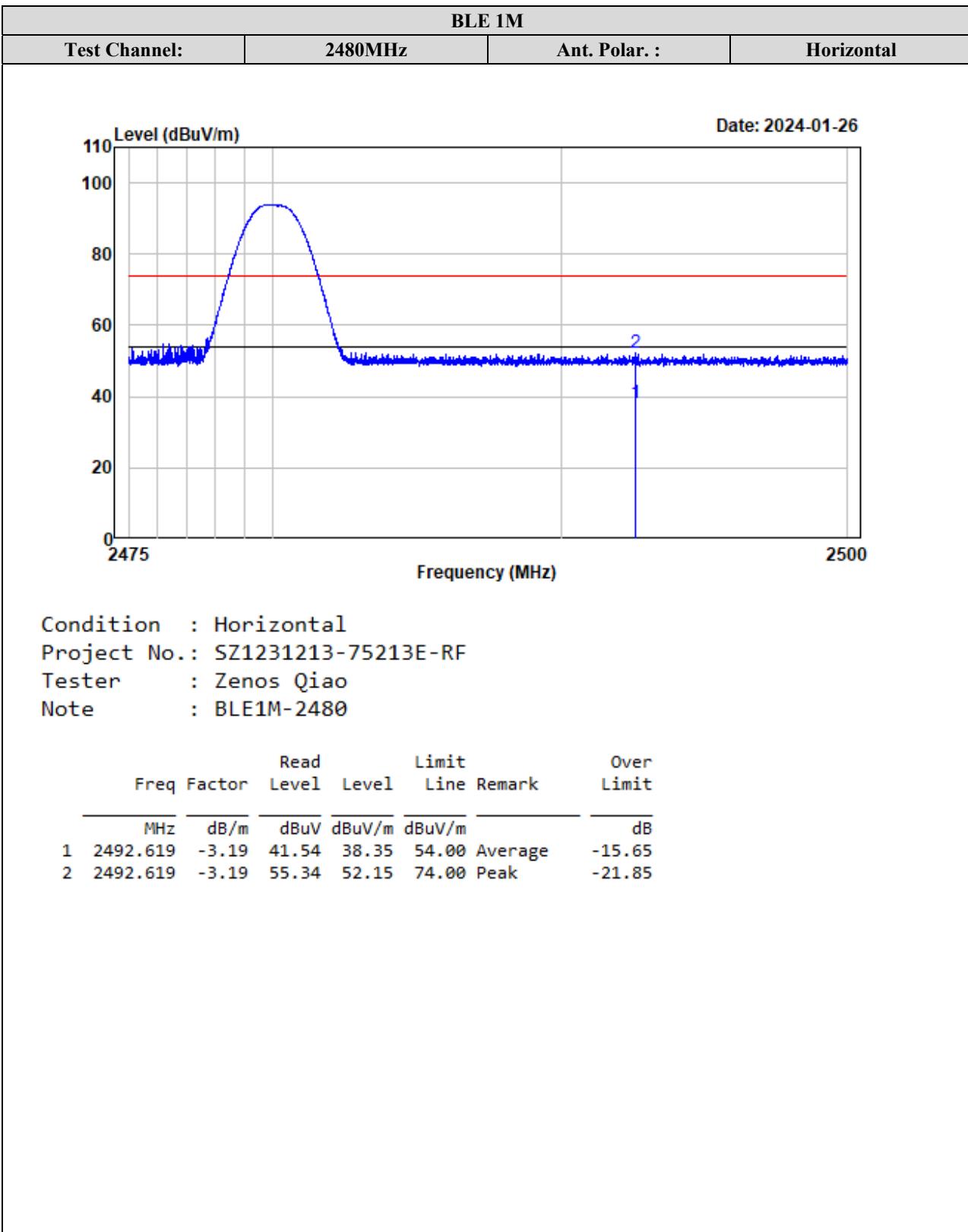
Corrected Amplitude = Corrected Factor + Reading

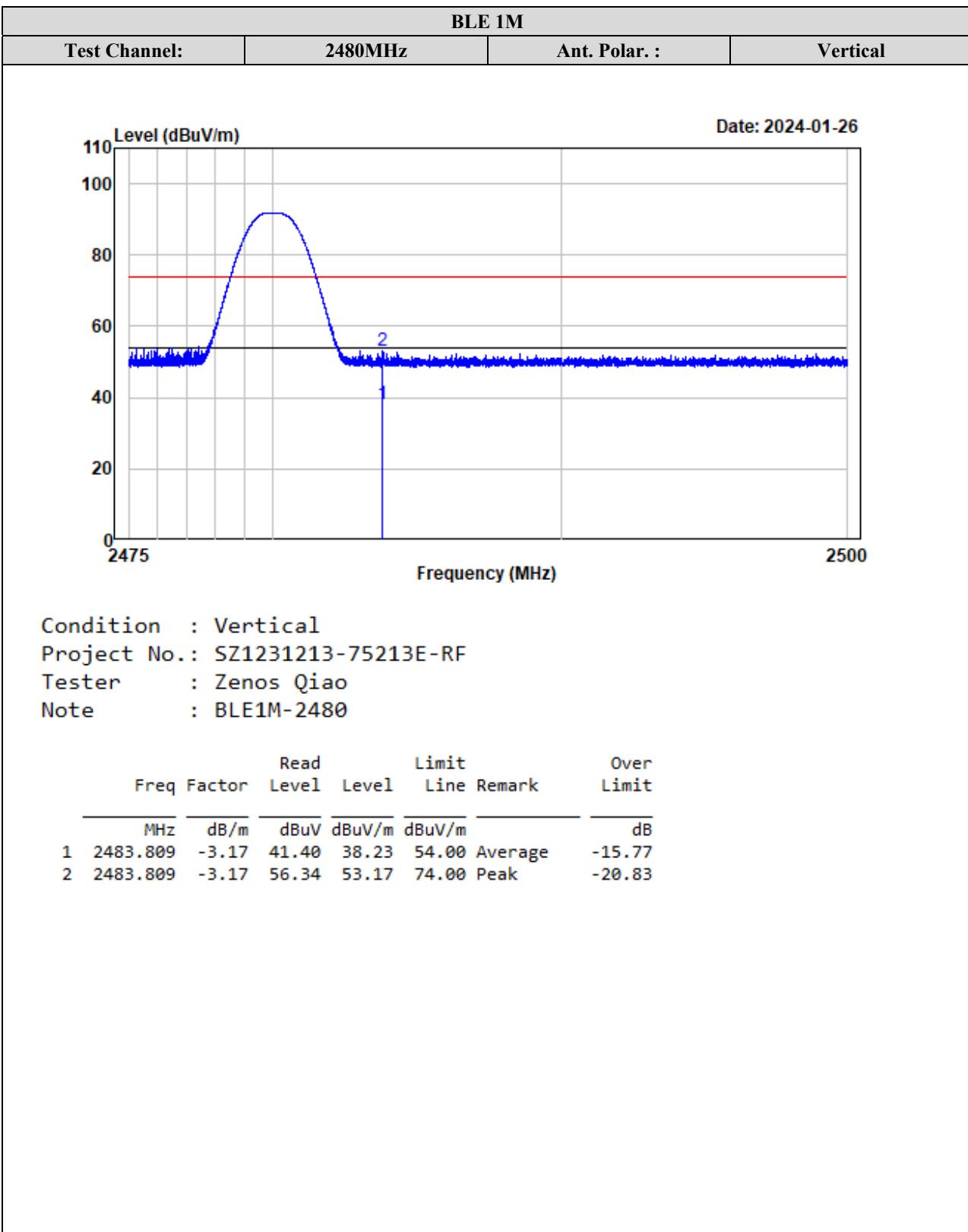
Margin = Corrected. Amplitude - Limit

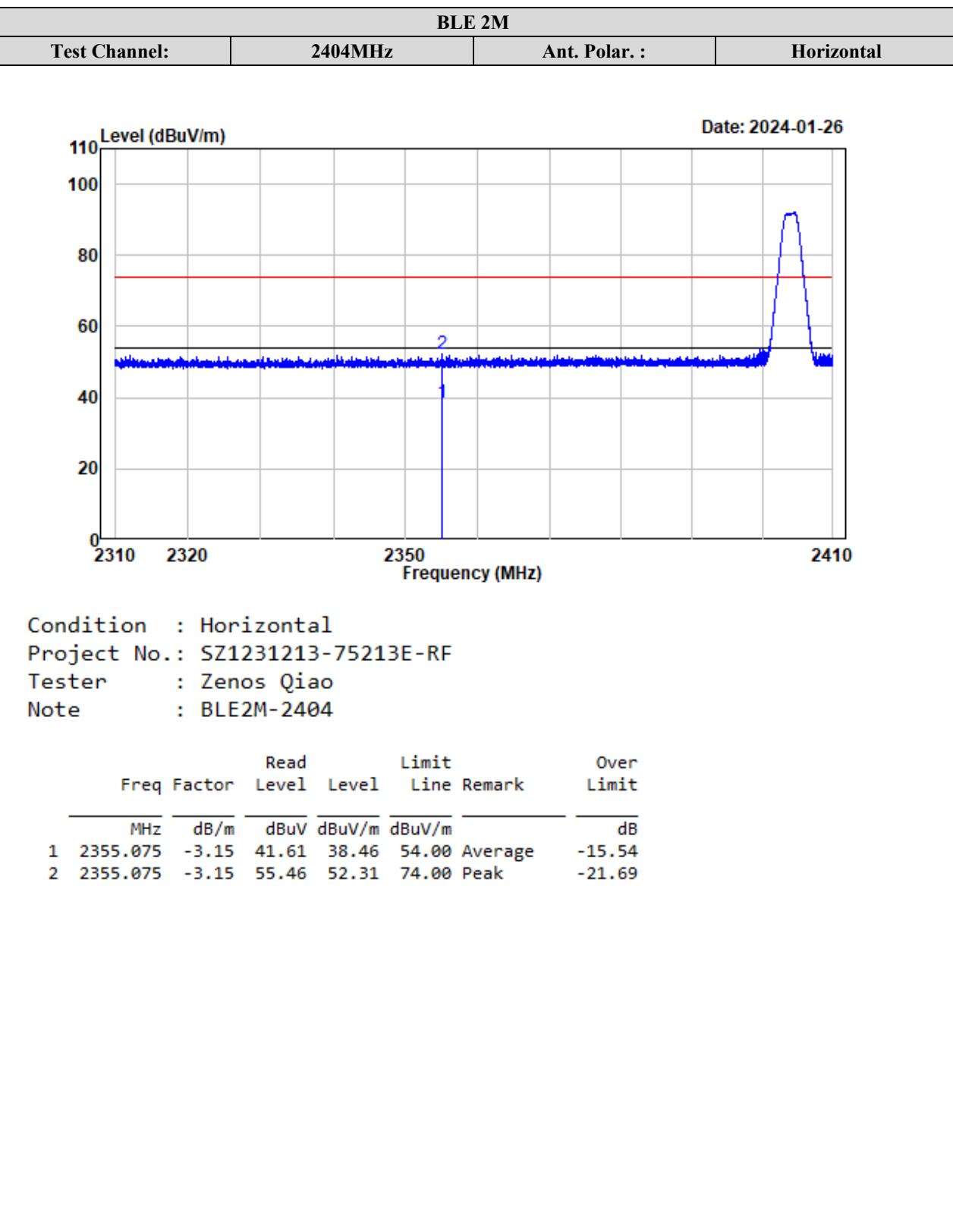
The other spurious emission which is in the noise floor level was not recorded.

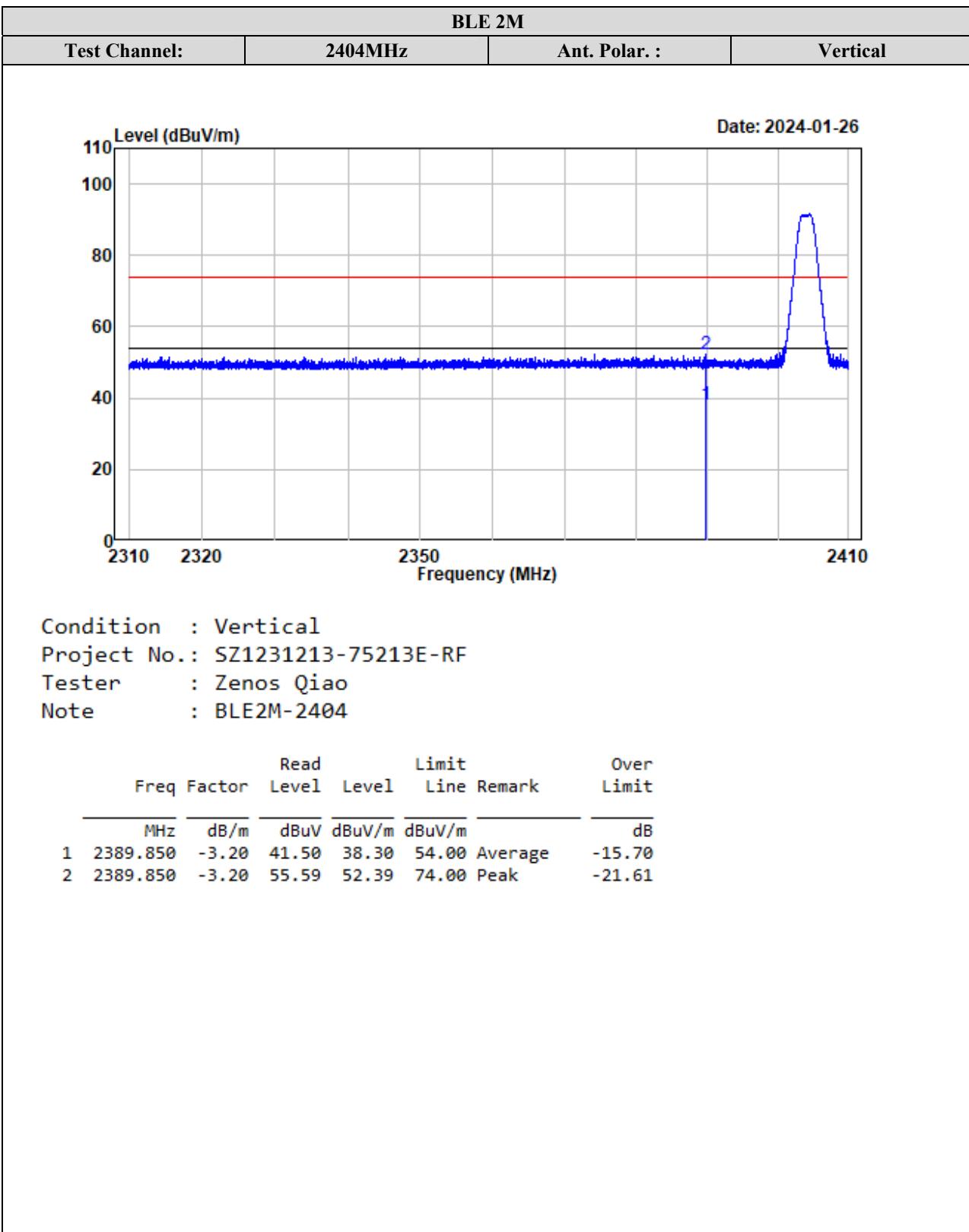
Test plots for Band Edge Measurements (Radiated):

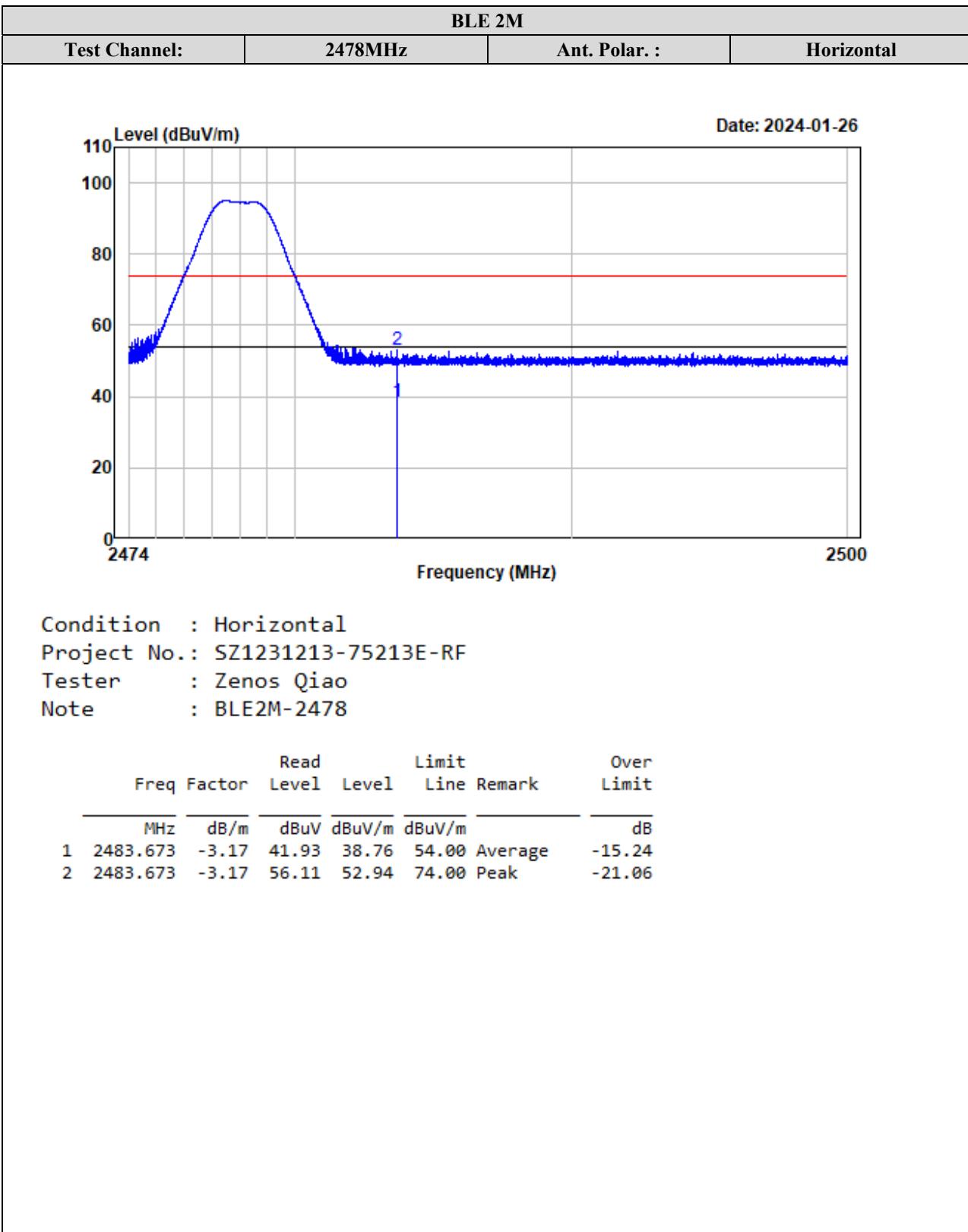


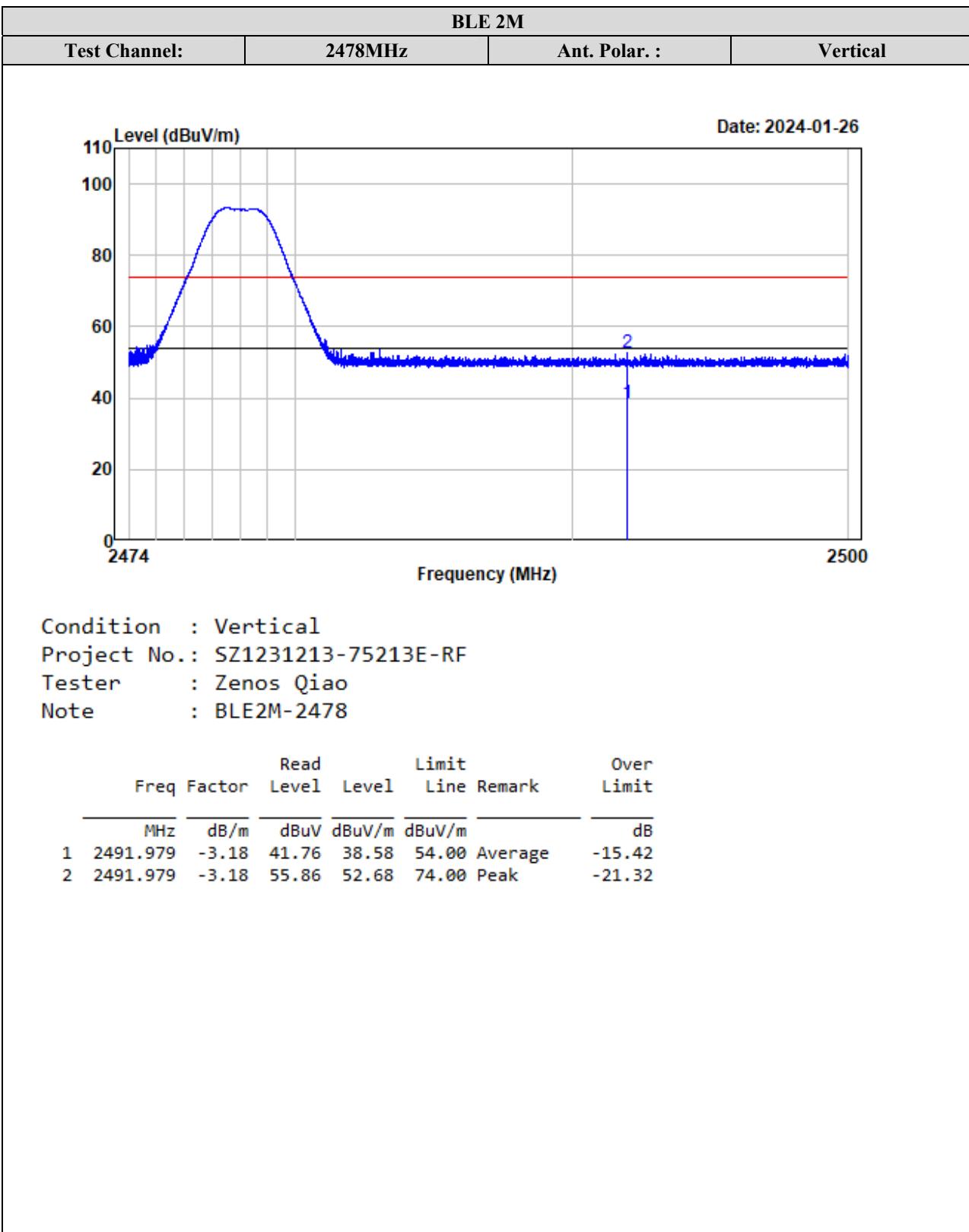












Wi-Fi

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)					
	Reading (dB μ V)	PK/Ave		Height (m)	Polar (H/V)									
802.11b ANT1														
Low Channel 2412MHz														
4824.00	53.53	PK	30	1.7	H	2.45	55.98	74	-18.02					
4824.00	47.39	AV	30	1.7	H	2.45	49.84	54	-4.16					
4824.00	52.47	PK	109	1.5	V	2.45	54.92	74	-19.08					
4824.00	46.68	AV	109	1.5	V	2.45	49.13	54	-4.87					
Middle Channel 2437MHz														
4874.00	52.87	PK	264	1.8	H	2.56	55.43	74	-18.57					
4874.00	46.91	AV	264	1.8	H	2.56	49.47	54	-4.53					
4874.00	52.03	PK	351	2.0	V	2.56	54.59	74	-19.41					
4874.00	46.12	AV	351	2.0	V	2.56	48.68	54	-5.32					
High Channel 2462MHz														
4924.00	52.26	PK	299	2.0	H	2.63	54.89	74	-19.11					
4924.00	46.45	AV	299	2.0	H	2.63	49.08	54	-4.92					
4924.00	51.34	PK	204	1.6	V	2.63	53.97	74	-20.03					
4924.00	45.72	AV	204	1.6	V	2.63	48.35	54	-5.65					
802.11b ANT2														
Low Channel 2412MHz														
4824.00	48.72	PK	183	1.5	H	2.45	51.17	74	-22.83					
4824.00	37.43	AV	183	1.5	H	2.45	39.88	54	-14.12					
4824.00	47.87	PK	251	2.0	V	2.45	50.32	74	-23.68					
4824.00	36.59	AV	251	2.0	V	2.45	39.04	54	-14.96					
Middle Channel 2437MHz														
4874.00	48.94	PK	37	1.4	H	2.56	51.50	74	-22.50					
4874.00	38.05	AV	37	1.4	H	2.56	40.61	54	-13.39					
4874.00	48.13	PK	178	2.2	V	2.56	50.69	74	-23.31					
4874.00	37.21	AV	178	2.2	V	2.56	39.77	54	-14.23					
High Channel 2462MHz														
4924.00	49.15	PK	154	1.9	H	2.63	51.78	74	-22.22					
4924.00	38.64	AV	154	1.9	H	2.63	41.27	54	-12.73					
4924.00	48.28	PK	52	1.4	V	2.63	50.91	74	-23.09					
4924.00	37.87	AV	52	1.4	V	2.63	40.50	54	-13.50					

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)					
	Reading (dB μ V)	PK/Ave		Height (m)	Polar (H/V)									
802.11g ANT1														
Low Channel 2412MHz														
4824.00	50.81	PK	14	2.3	H	2.45	53.26	74	-20.74					
4824.00	38.36	AV	14	2.3	H	2.45	40.81	54	-13.19					
4824.00	50.29	PK	198	1.0	V	2.45	52.74	74	-21.26					
4824.00	37.55	AV	198	1.0	V	2.45	40.00	54	-14.00					
Middle Channel 2437MHz														
4874.00	51.24	PK	293	1.9	H	2.56	53.80	74	-20.20					
4874.00	38.65	AV	293	1.9	H	2.56	41.21	54	-12.79					
4874.00	50.57	PK	51	1.8	V	2.56	53.13	74	-20.87					
4874.00	37.82	AV	51	1.8	V	2.56	40.38	54	-13.62					
High Channel 2462MHz														
4924.00	51.59	PK	87	2.4	H	2.63	54.22	74	-19.78					
4924.00	39.13	AV	87	2.4	H	2.63	41.76	54	-12.24					
4924.00	51.04	PK	8	1.9	V	2.63	53.67	74	-20.33					
4924.00	38.27	AV	8	1.9	V	2.63	40.90	54	-13.10					
802.11g ANT2														
Low Channel 2412MHz														
4824.00	48.26	PK	254	2.1	H	2.45	50.71	74	-23.29					
4824.00	33.59	AV	254	2.1	H	2.45	36.04	54	-17.96					
4824.00	47.83	PK	74	2.1	V	2.45	50.28	74	-23.72					
4824.00	33.27	AV	74	2.1	V	2.45	35.72	54	-18.28					
Middle Channel 2437MHz														
4874.00	48.78	PK	340	2.3	H	2.56	51.34	74	-22.66					
4874.00	34.86	AV	340	2.3	H	2.56	37.42	54	-16.58					
4874.00	48.32	PK	15	1.1	V	2.56	50.88	74	-23.12					
4874.00	34.51	AV	15	1.1	V	2.56	37.07	54	-16.93					
High Channel 2462MHz														
4924.00	49.38	PK	336	1.7	H	2.63	52.01	74	-21.99					
4924.00	34.45	AV	336	1.7	H	2.63	37.08	54	-16.92					
4924.00	48.96	PK	94	2.0	V	2.63	51.59	74	-22.41					
4924.00	34.14	AV	94	2.0	V	2.63	36.77	54	-17.23					

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)					
	Reading (dB μ V)	PK/Ave		Height (m)	Polar (H/V)									
802.11n20														
Low Channel 2412MHz														
4824.00	51.63	PK	151	1.4	H	2.45	54.08	74	-19.92					
4824.00	37.71	AV	151	1.4	H	2.45	40.16	54	-13.84					
4824.00	50.54	PK	205	1.5	V	2.45	52.99	74	-21.01					
4824.00	36.98	AV	205	1.5	V	2.45	39.43	54	-14.57					
Middle Channel 2437MHz														
4874.00	52.05	PK	103	2.2	H	2.56	54.61	74	-19.39					
4874.00	37.99	AV	103	2.2	H	2.56	40.55	54	-13.45					
4874.00	51.24	PK	112	1.0	V	2.56	53.80	74	-20.20					
4874.00	37.17	AV	112	1.0	V	2.56	39.73	54	-14.27					
High Channel 2462MHz														
4924.00	52.67	PK	234	1.0	H	2.63	55.30	74	-18.70					
4924.00	38.32	AV	234	1.0	H	2.63	40.95	54	-13.05					
4924.00	51.45	PK	116	1.8	V	2.63	54.08	74	-19.92					
4924.00	37.56	AV	116	1.8	V	2.63	40.19	54	-13.81					
802.11n40														
Low Channel 2422MHz														
4844.00	48.31	PK	173	2.5	H	2.45	50.76	74	-23.24					
4844.00	34.62	AV	173	2.5	H	2.45	37.07	54	-16.93					
4844.00	48.06	PK	345	1.9	V	2.45	50.51	74	-23.49					
4844.00	34.55	AV	345	1.9	V	2.45	37.00	54	-17.00					
Middle Channel 2437MHz														
4874.00	48.64	PK	34	1.2	H	2.56	51.20	74	-22.80					
4874.00	34.57	AV	34	1.2	H	2.56	37.13	54	-16.87					
4874.00	48.25	PK	94	1.8	V	2.56	50.81	74	-23.19					
4874.00	34.36	AV	94	1.8	V	2.56	36.92	54	-17.08					
High Channel 2452MHz														
4904.00	48.87	PK	71	1.7	H	2.64	51.51	74	-22.49					
4904.00	34.75	AV	71	1.7	H	2.64	37.39	54	-16.61					
4904.00	48.14	PK	315	1.7	V	2.64	50.78	74	-23.22					
4904.00	33.99	AV	315	1.7	V	2.64	36.63	54	-17.37					

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)					
	Reading (dB μ V)	PK/Ave		Height (m)	Polar (H/V)									
802.11ax20														
Low Channel 2412MHz_242Tone_RU61														
4824.00	51.38	PK	244	1.1	H	2.45	53.83	74	-20.17					
4824.00	37.42	AV	244	1.1	H	2.45	39.87	54	-14.13					
4824.00	50.75	PK	160	2.3	V	2.45	53.20	74	-20.80					
4824.00	36.69	AV	160	2.3	V	2.45	39.14	54	-14.86					
Middle Channel 2437MHz_242Tone_RU61														
4874.00	51.64	PK	275	1.8	H	2.56	54.20	74	-19.80					
4874.00	37.59	AV	275	1.8	H	2.56	40.15	54	-13.85					
4874.00	51.12	PK	159	1.4	V	2.56	53.68	74	-20.32					
4874.00	36.91	AV	159	1.4	V	2.56	39.47	54	-14.53					
High Channel 2462MHz_242Tone_RU61														
4924.00	51.96	PK	345	1.9	H	2.63	54.59	74	-19.41					
4924.00	37.87	AV	345	1.9	H	2.63	40.50	54	-13.50					
4924.00	51.32	PK	274	2.5	V	2.63	53.95	74	-20.05					
4924.00	37.15	AV	274	2.5	V	2.63	39.78	54	-14.22					
802.11ax40														
Low Channel 2422MHz_484Tone_RU65														
4844.00	48.24	PK	2	1.5	H	2.45	50.69	74	-23.31					
4844.00	34.90	AV	2	1.5	H	2.45	37.35	54	-16.65					
4844.00	47.99	PK	214	1.3	V	2.45	50.44	74	-23.56					
4844.00	34.58	AV	214	1.3	V	2.45	37.03	54	-16.97					
Middle Channel 2437MHz_484Tone_RU65														
4874.00	48.15	PK	136	1.9	H	2.56	50.71	74	-23.29					
4874.00	34.68	AV	136	1.9	H	2.56	37.24	54	-16.76					
4874.00	47.82	PK	17	1.7	V	2.56	50.38	74	-23.62					
4874.00	34.39	AV	17	1.7	V	2.56	36.95	54	-17.05					
High Channel 2452MHz_484Tone_RU65														
4904.00	48.02	PK	230	1.8	H	2.64	50.66	74	-23.34					
4904.00	34.47	AV	230	1.8	H	2.64	37.11	54	-16.89					
4904.00	47.78	PK	139	2.1	V	2.64	50.42	74	-23.58					
4904.00	34.21	AV	139	2.1	V	2.64	36.85	54	-17.15					

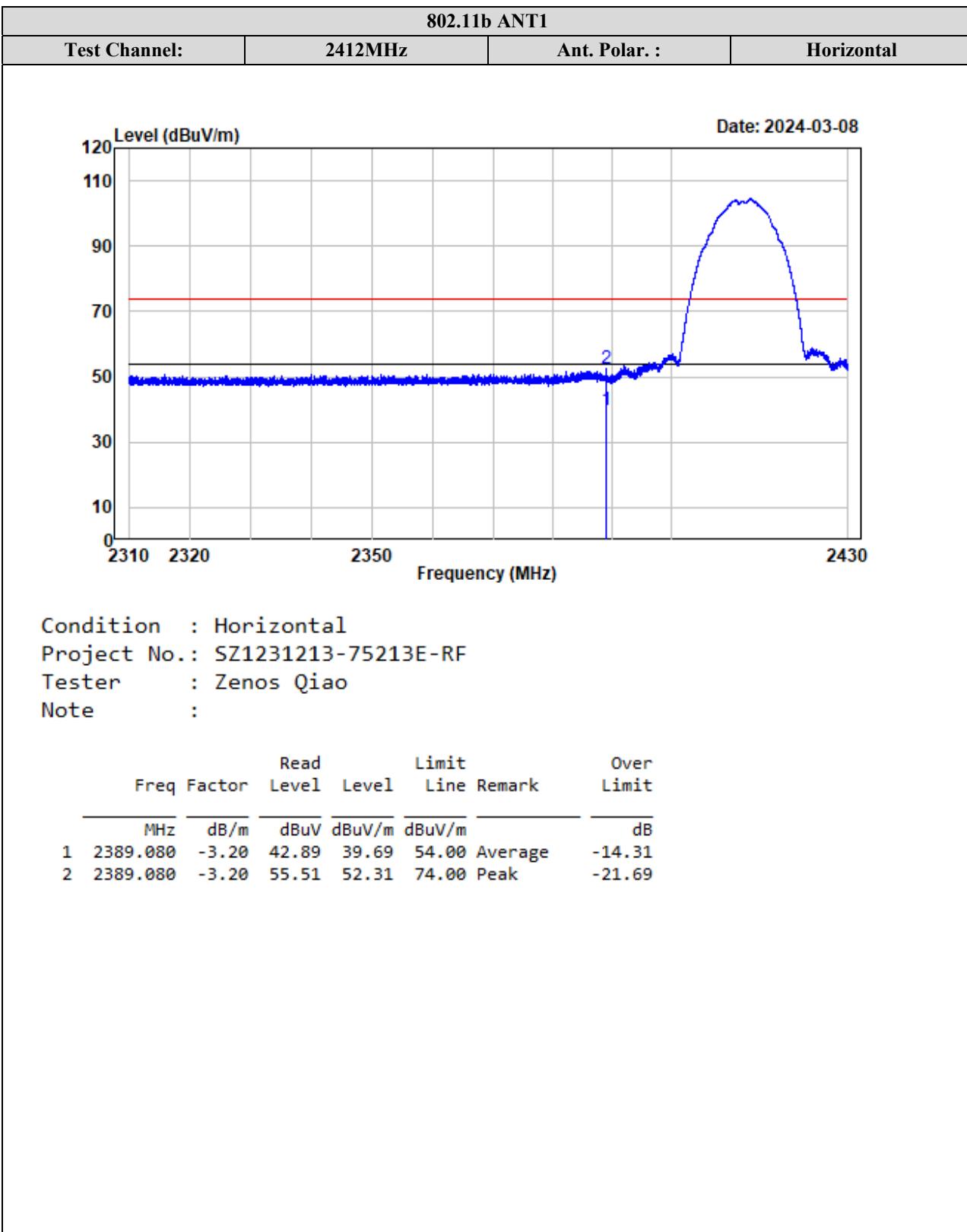
Note:

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

Corrected Amplitude = Factor + Reading

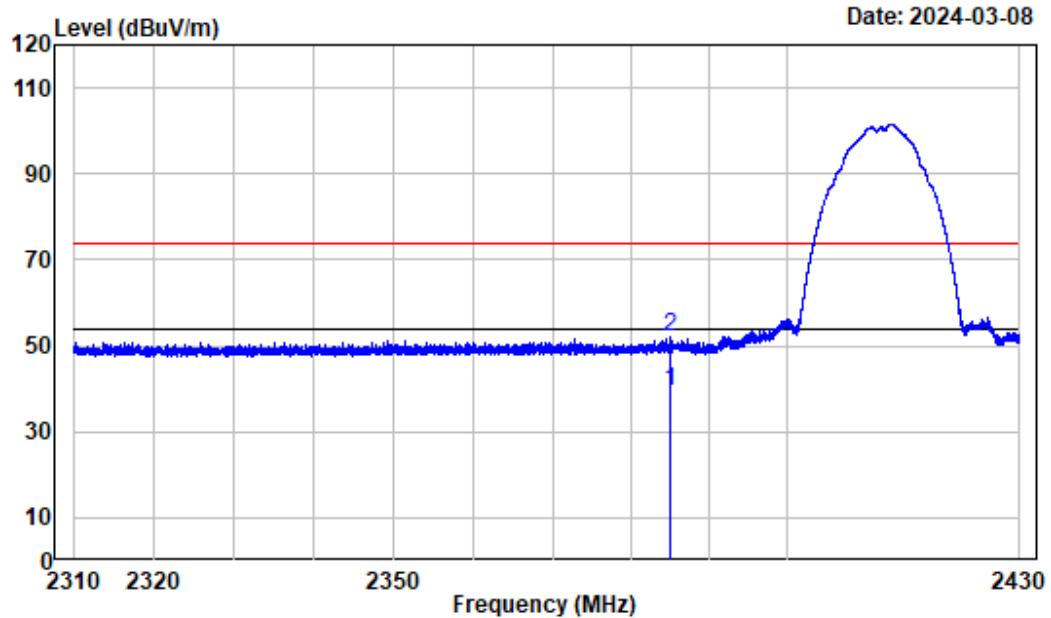
Margin = Corrected. Amplitude - Limit

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

Test plots for Band Edge Measurements (Radiated):

802.11b ANT1

Test Channel: 2412MHz Ant. Polar.: Vertical



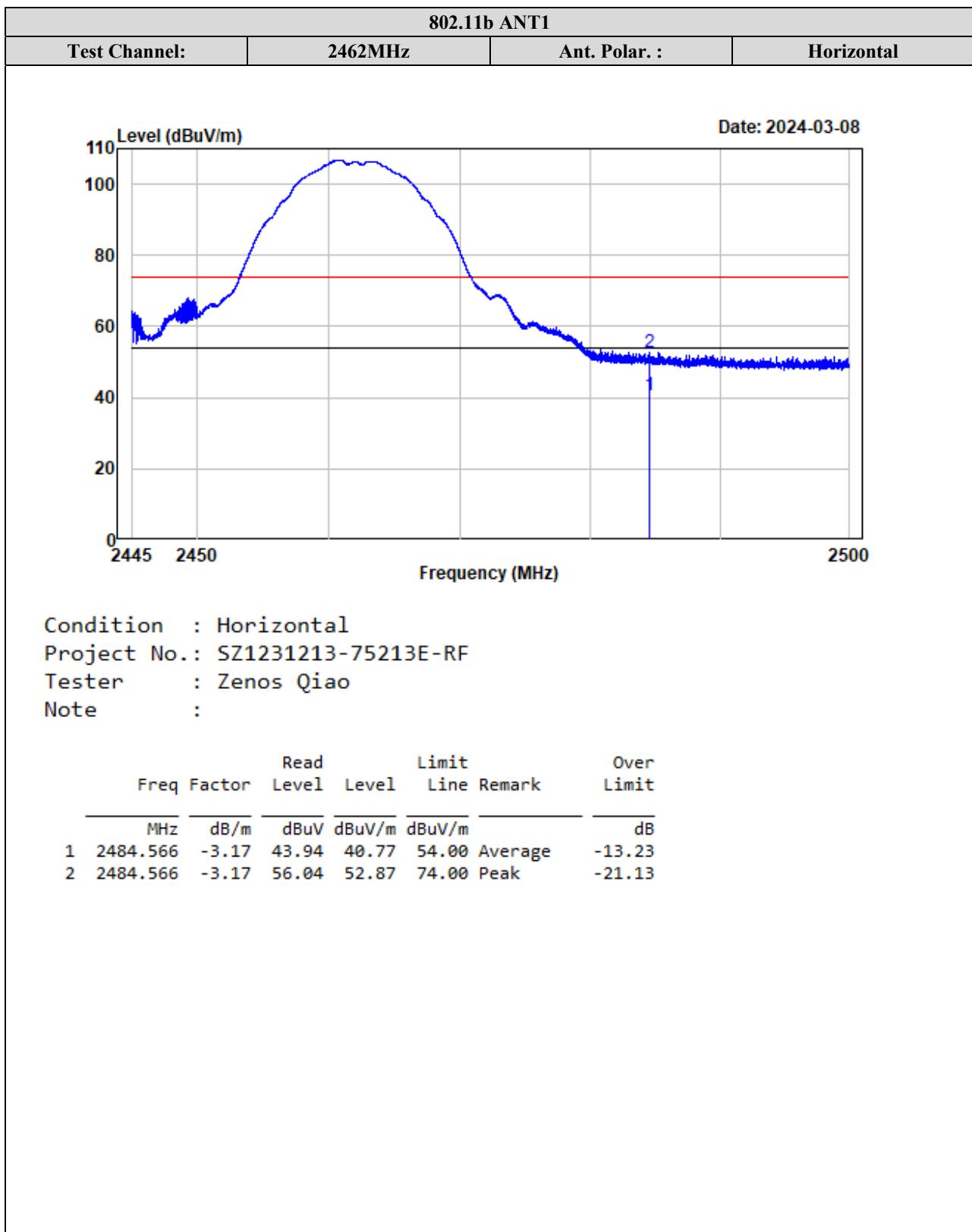
Condition : Vertical

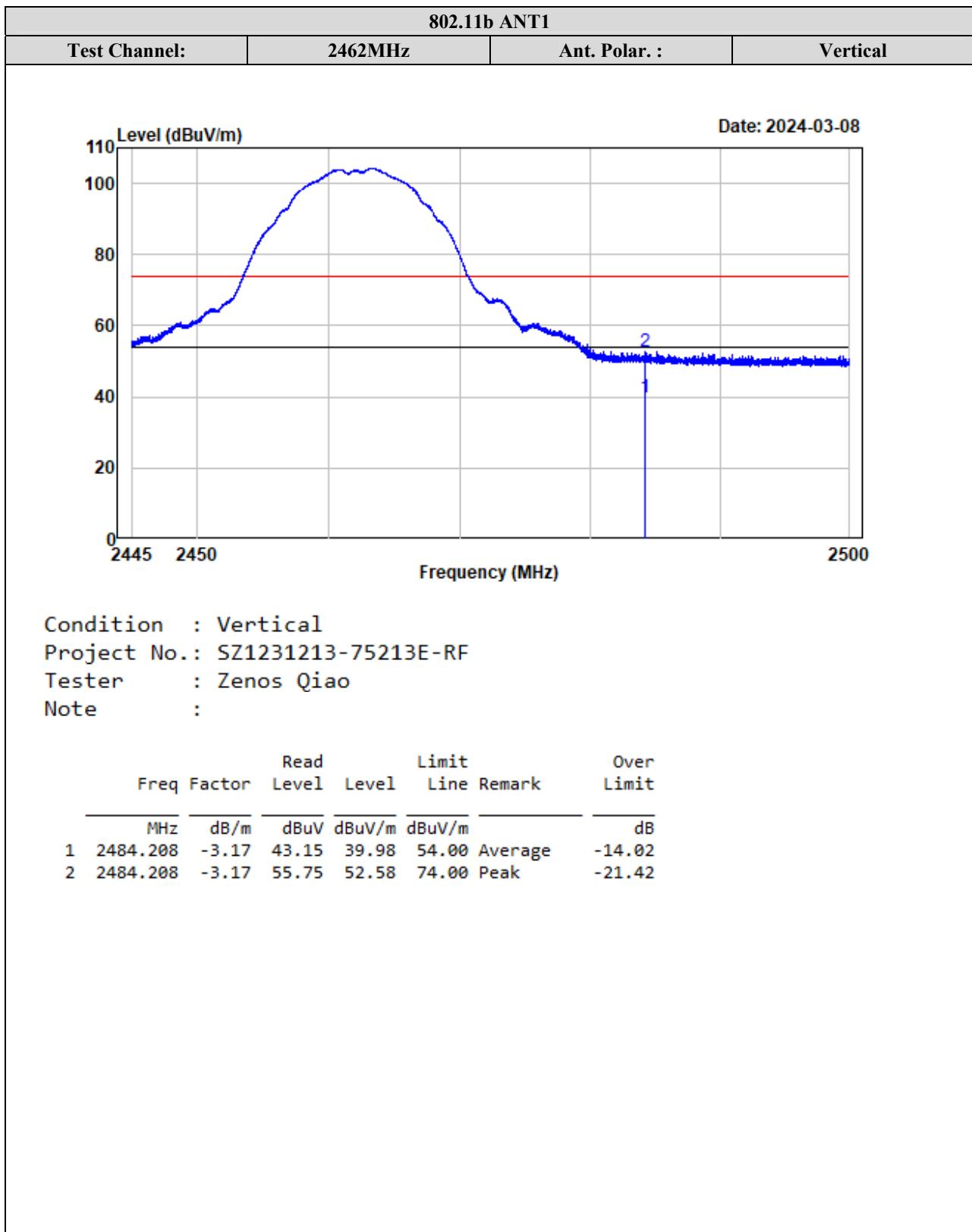
Project No.: SZ1231213-75213E-RF

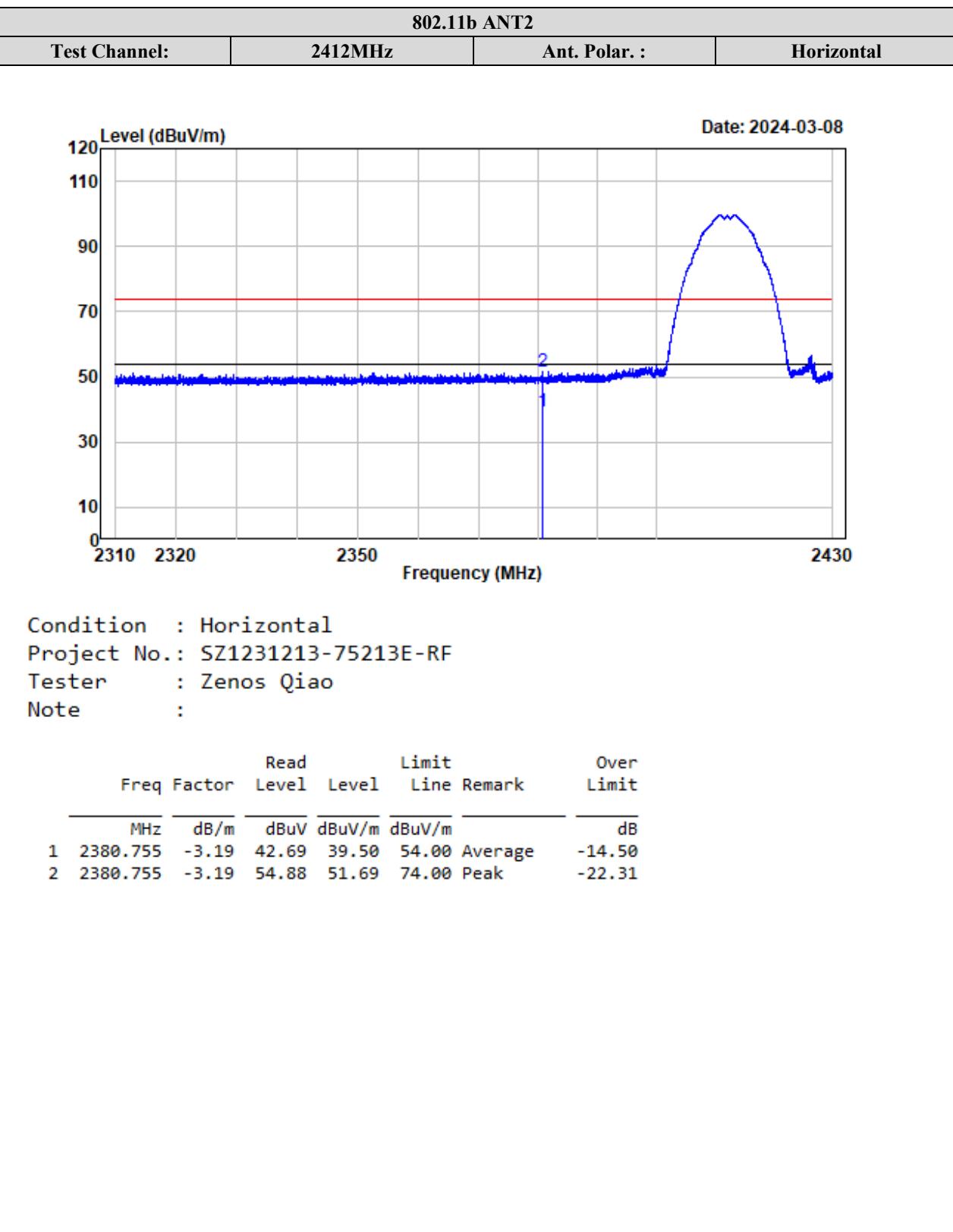
Tester : Zenos Qiao

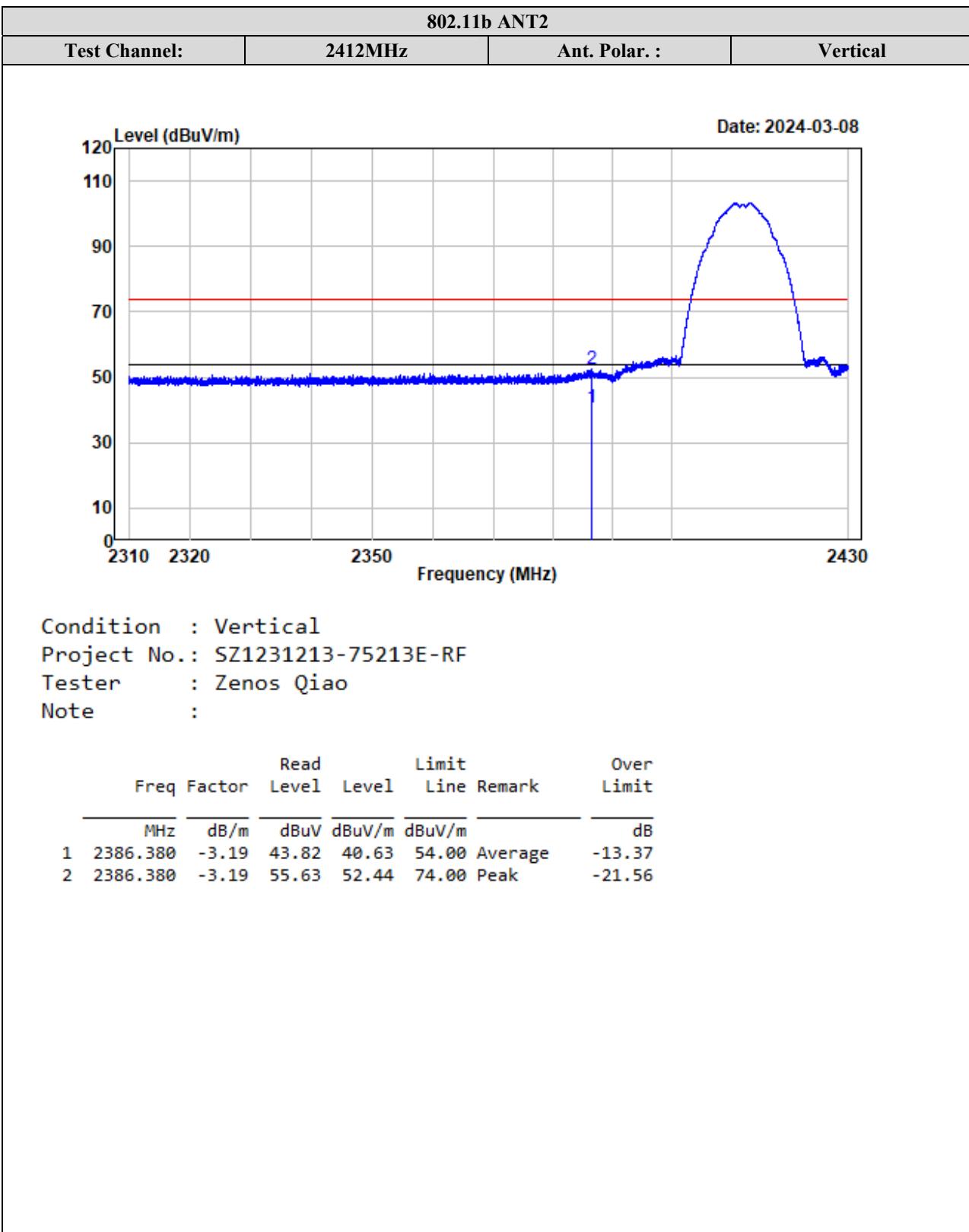
Note :

Freq	Factor	Read		Limit		Over Limit
		Level	Level	Line	Remark	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 2384.910	-3.20	42.46	39.26	54.00	Average	-14.74
2 2384.910	-3.20	55.31	52.11	74.00	Peak	-21.89



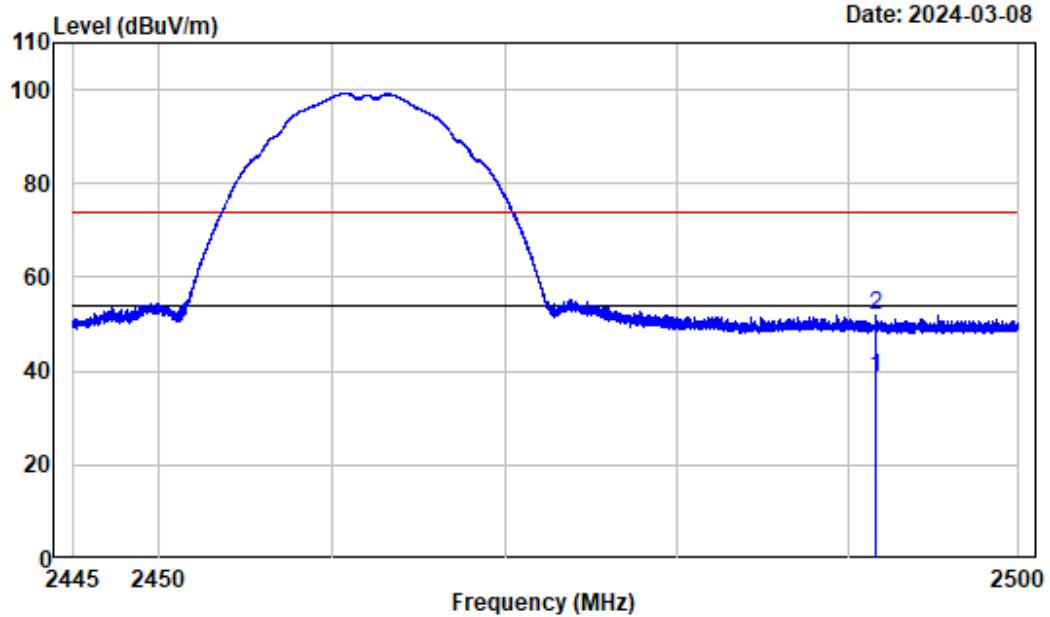


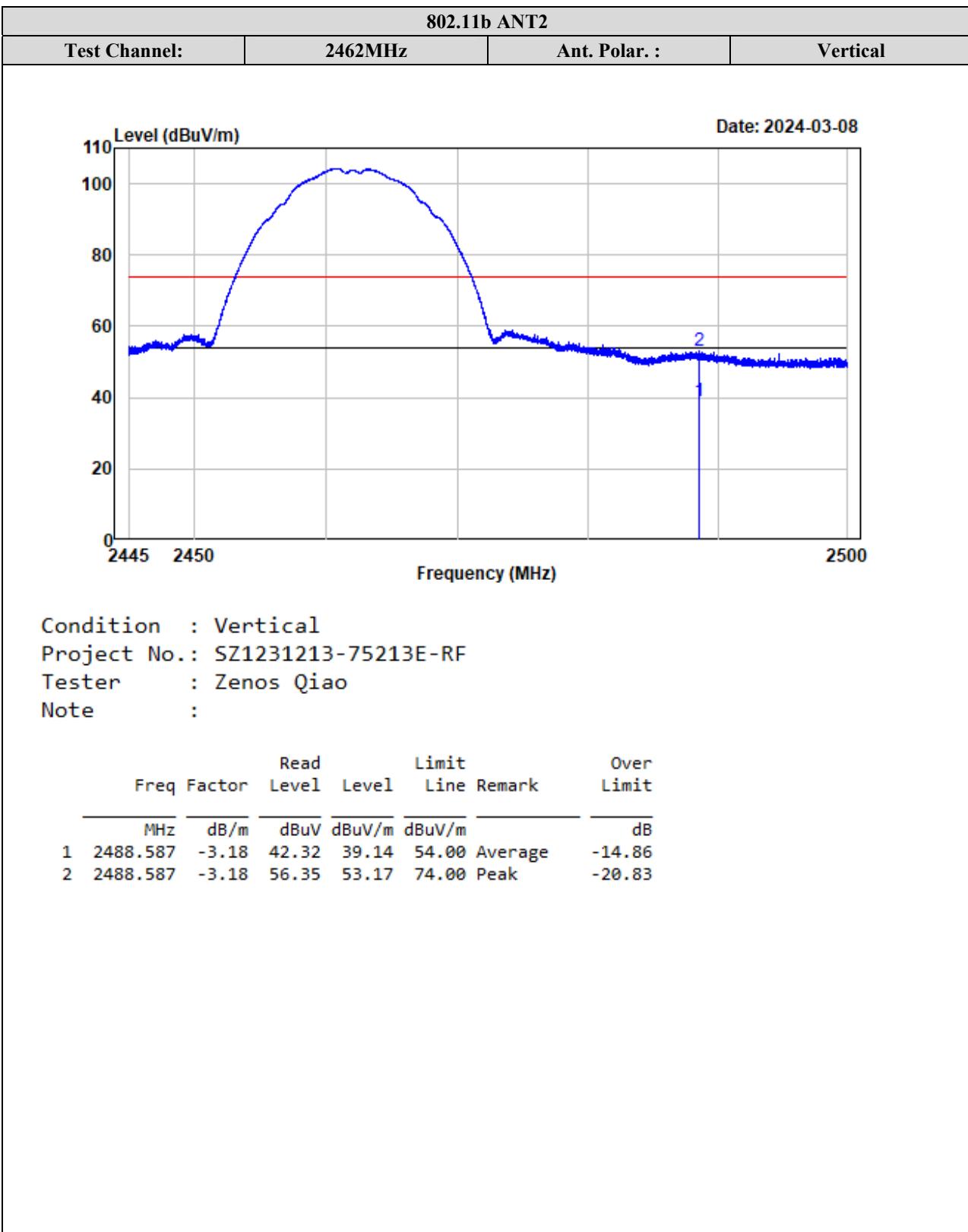




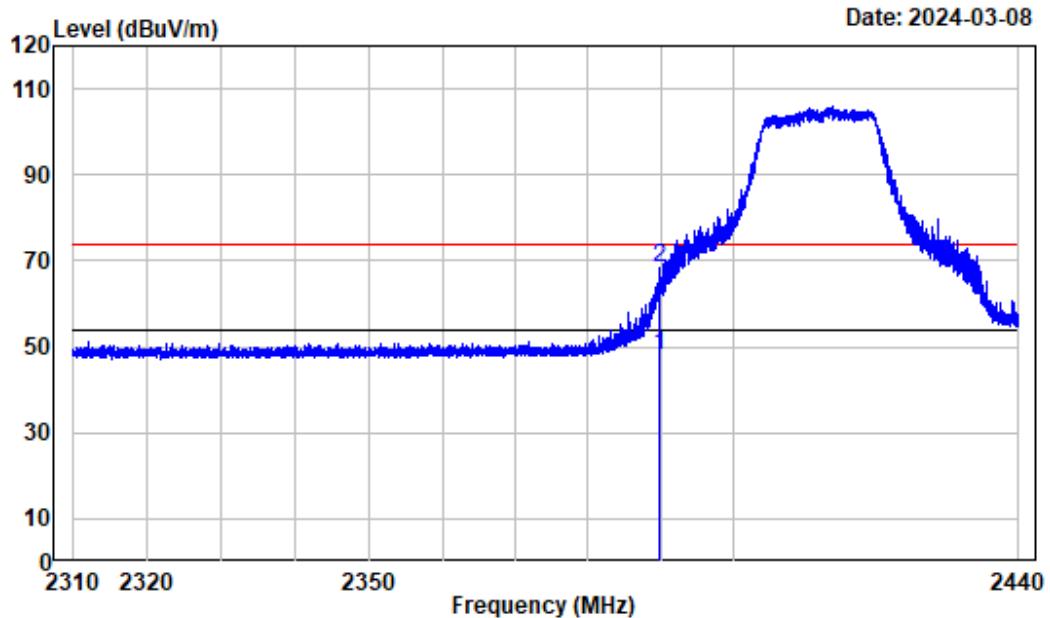
802.11b ANT2

Test Channel: 2462MHz Ant. Polar.: Horizontal





802.11g ANT1			
Test Channel:	2412MHz	Ant. Polar. :	Horizontal



Condition : Horizontal

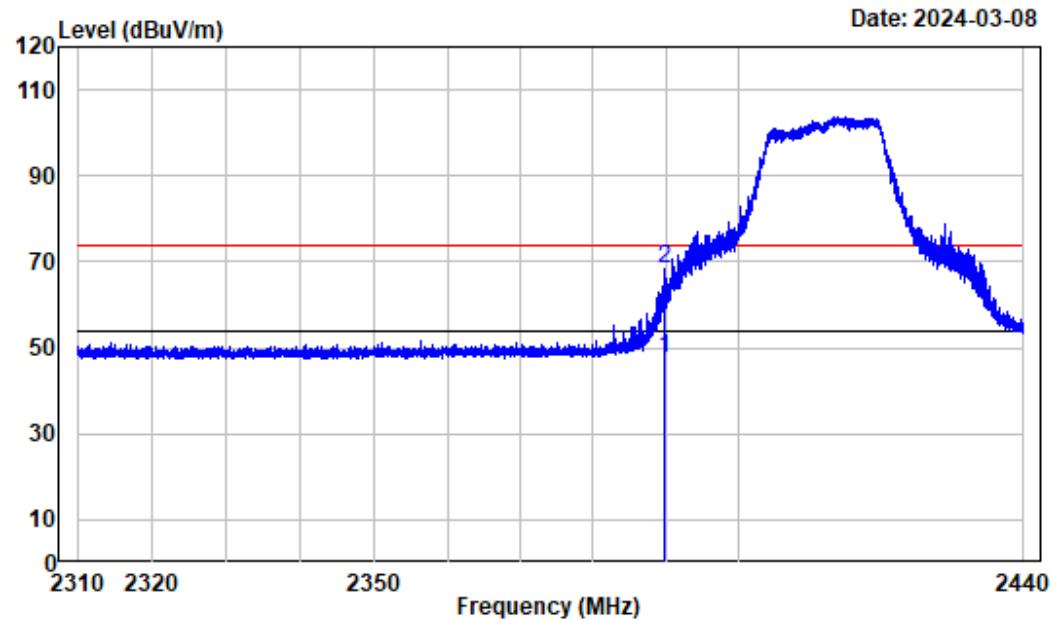
Project No.: SZ1231213-75213E-RF

Tester : Zenos Qiao

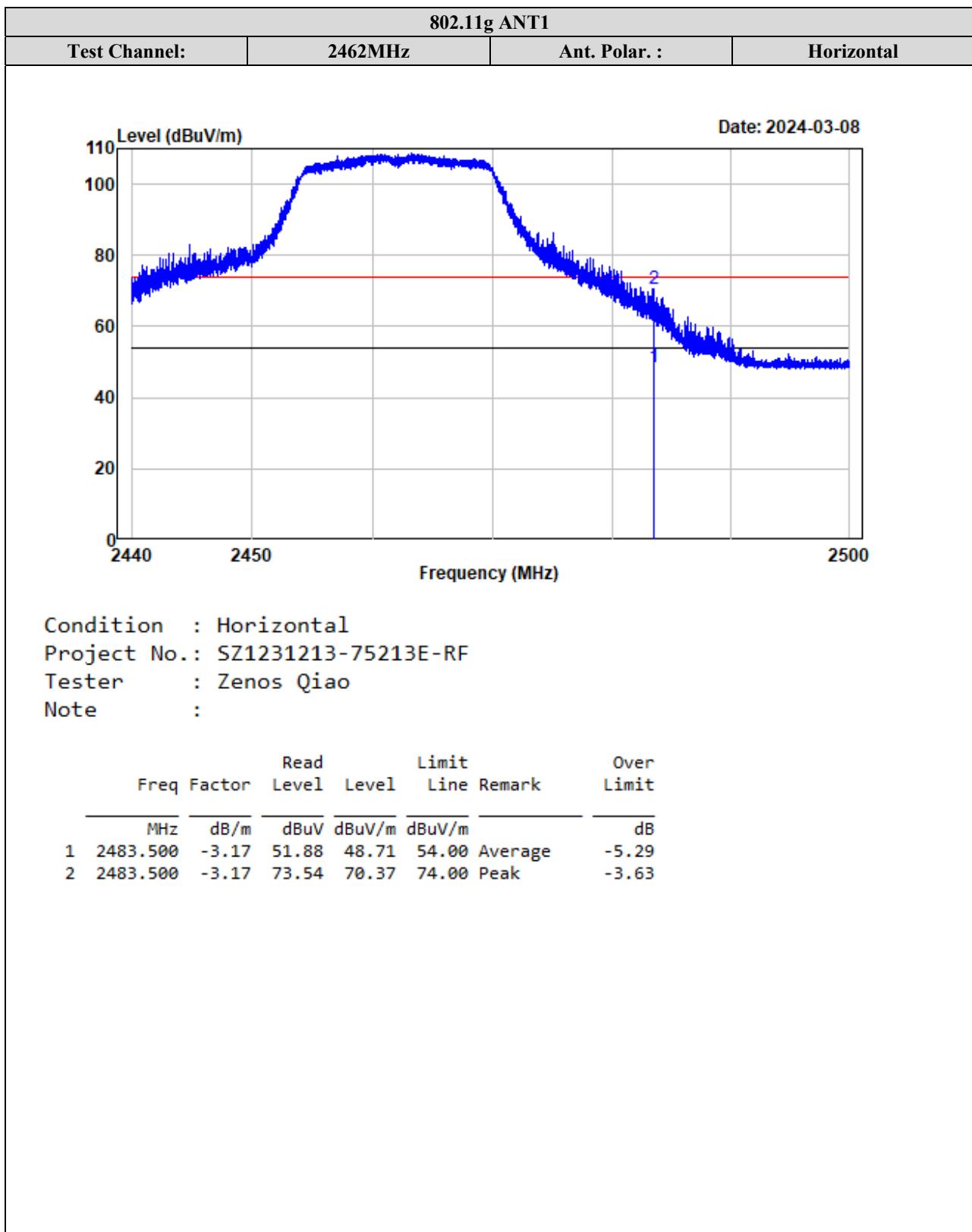
Note :

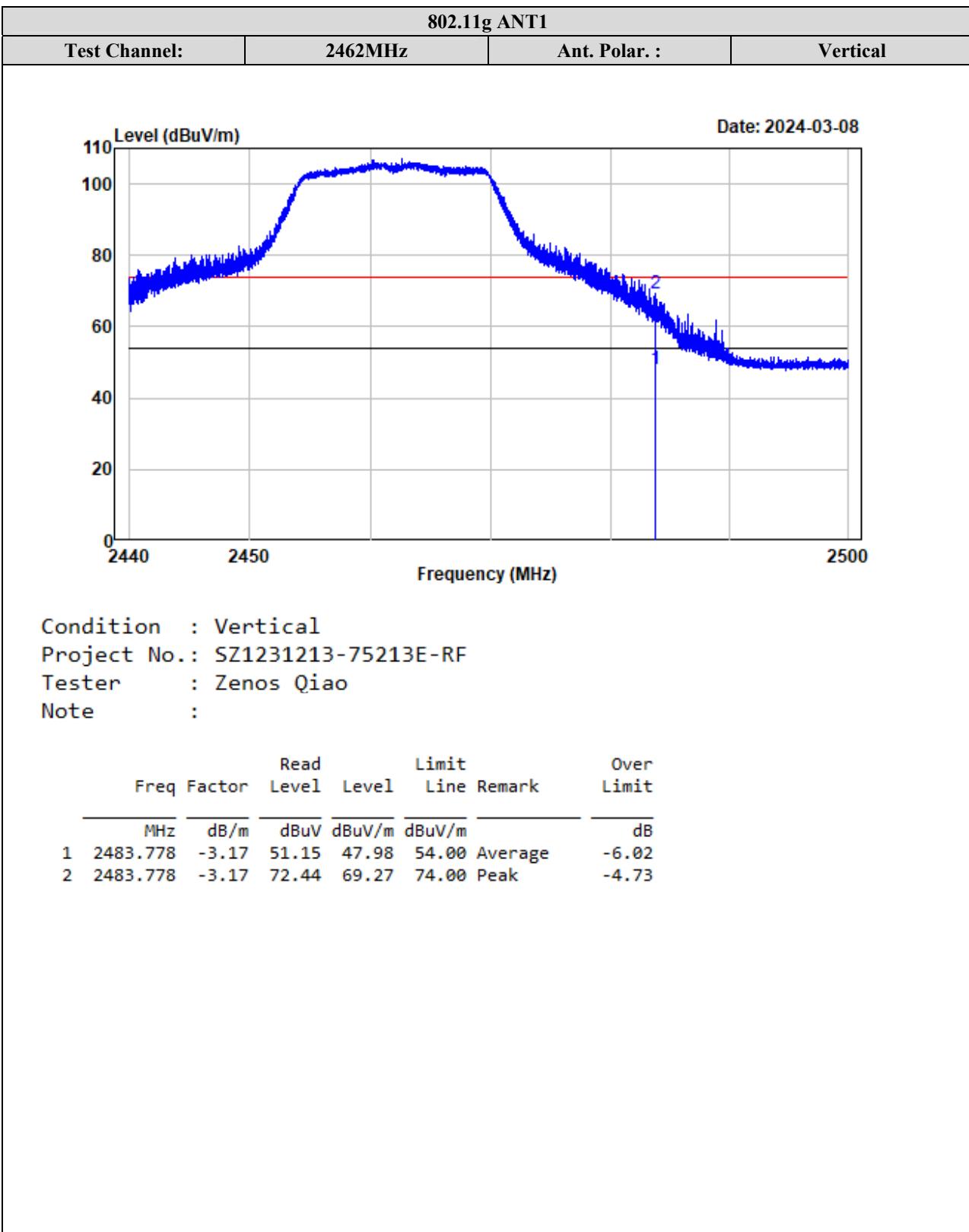
Freq	Factor	Read		Limit		Over Limit
		Level	dB/m	Level	dBuV/m	
1	2389.917	-3.20	51.27	48.07	54.00	Average -5.93
2	2389.917	-3.20	71.70	68.50	74.00	Peak -5.50

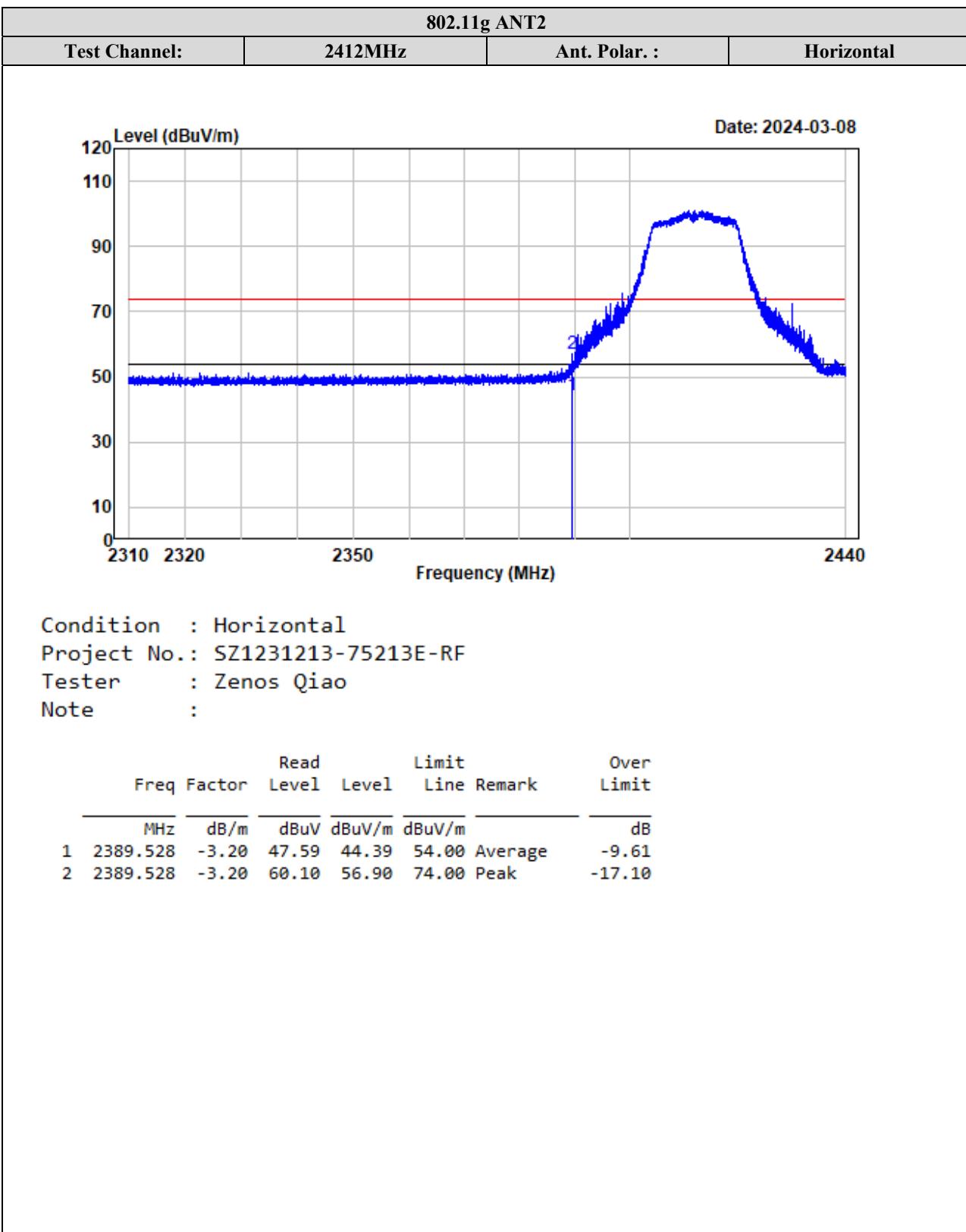
Test Channel:	2412MHz	Ant. Polar. :	Vertical
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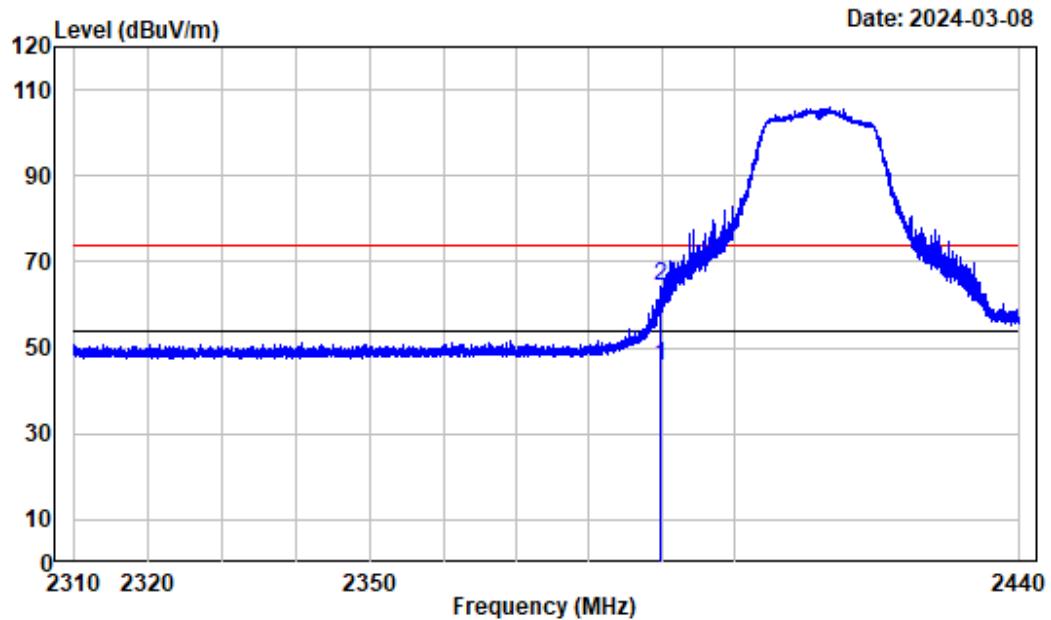
Freq	Factor	Read		Limit		Over Limit
		Level	Level	Line	Remark	
1	2389.950	-3.20	50.64	47.44	54.00 Average	-6.56
2	2389.950	-3.20	71.45	68.25	74.00 Peak	-5.75







Test Channel:	2412MHz	Ant. Polar. :	Vertical
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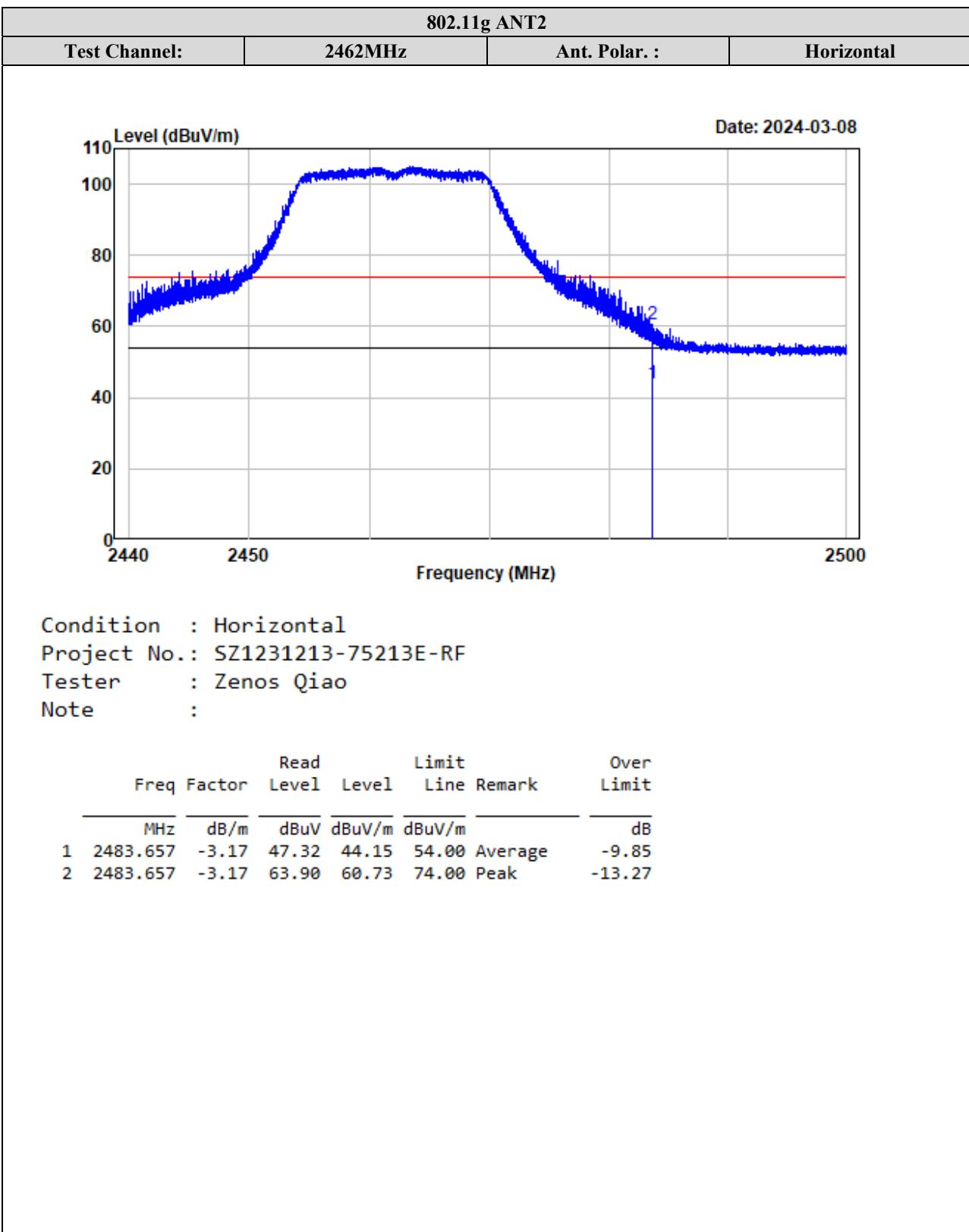
Condition : Vertical

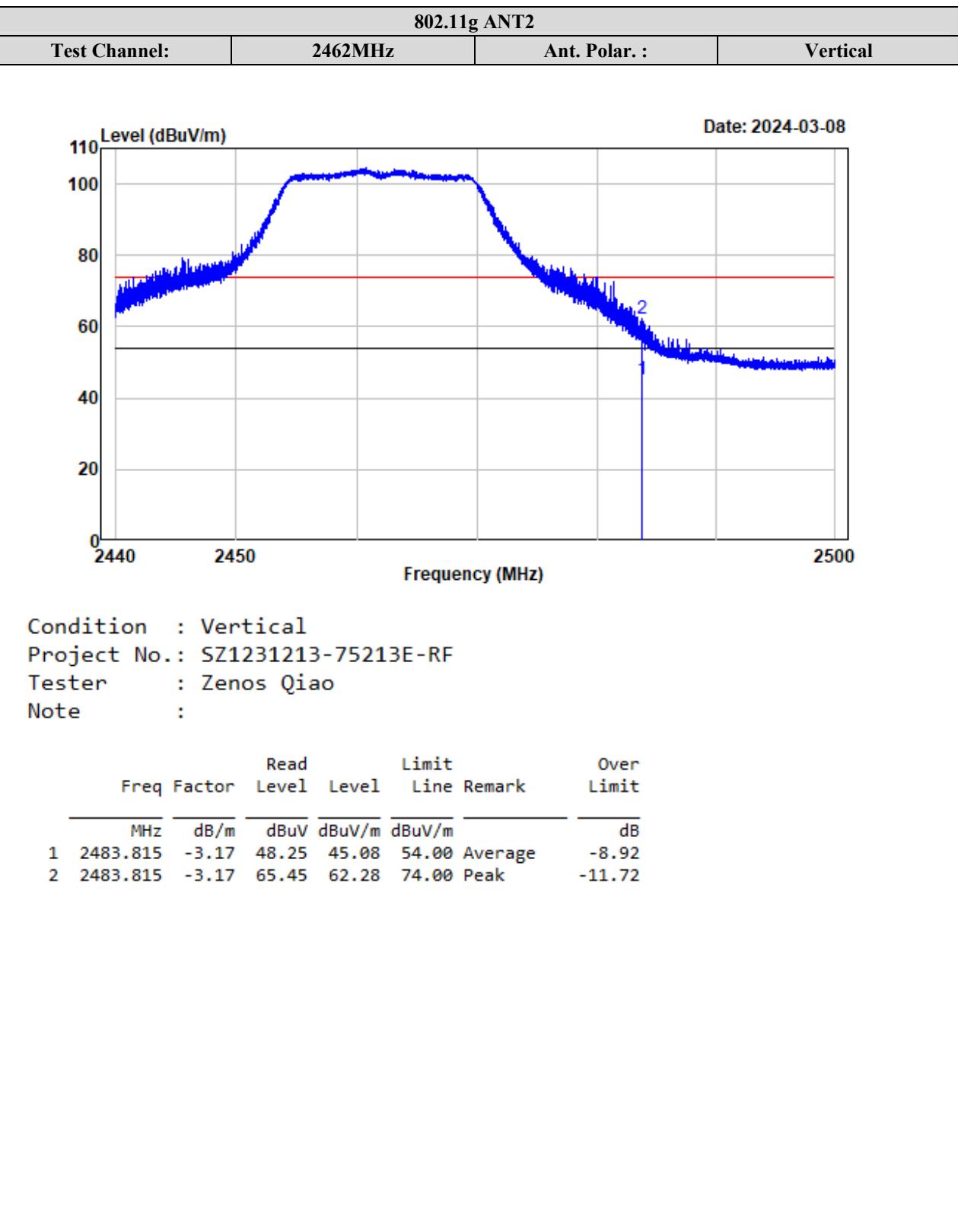
Project No.: SZ1231213-75213E-RF

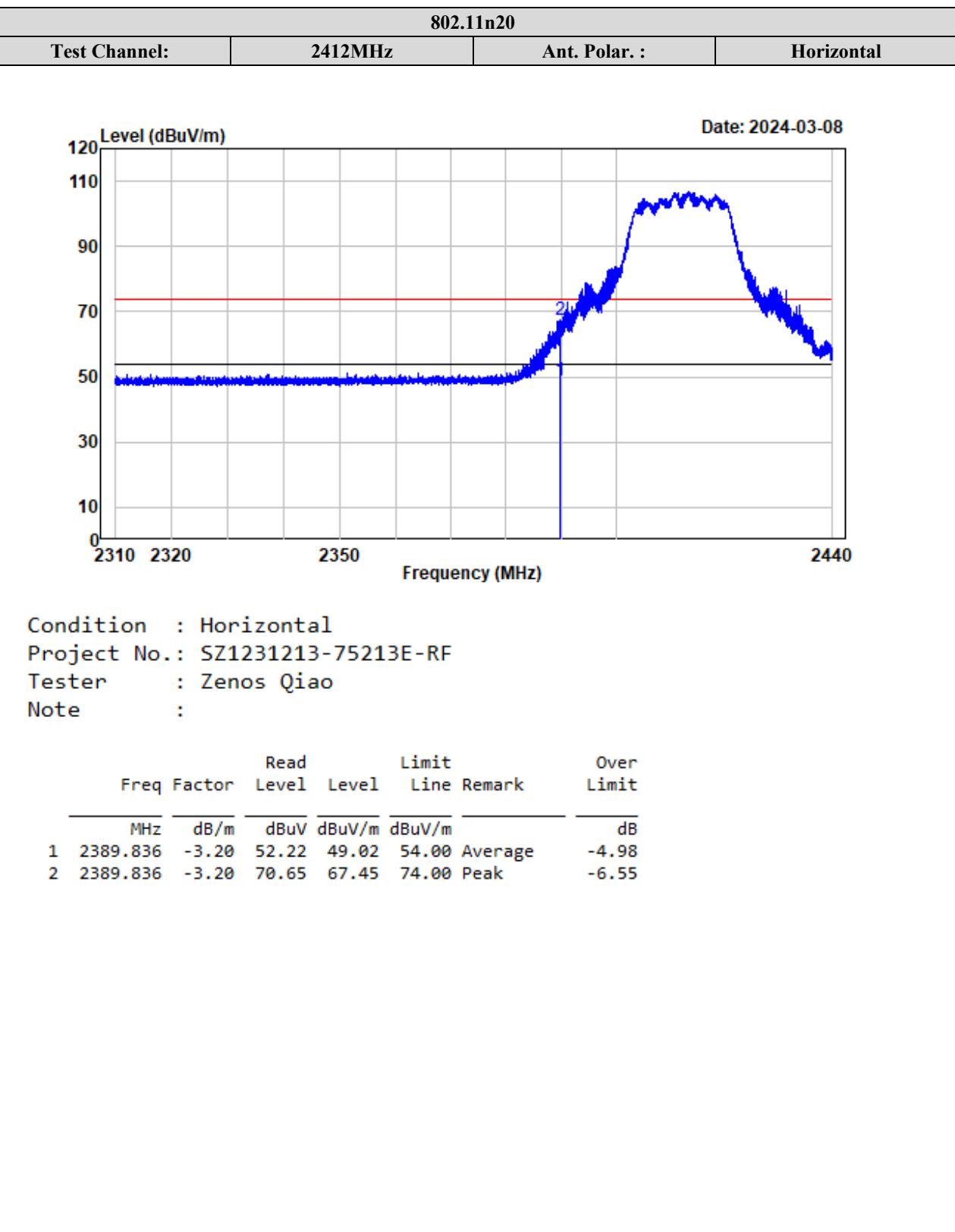
Tester : Zenos Qiao

Note :

Freq	Factor	Read		Limit		Over Limit
		Level	Level	Line	Remark	
1	2389.917	-3.20	48.94	45.74	54.00 Average	-8.26
2	2389.917	-3.20	67.48	64.28	74.00 Peak	-9.72

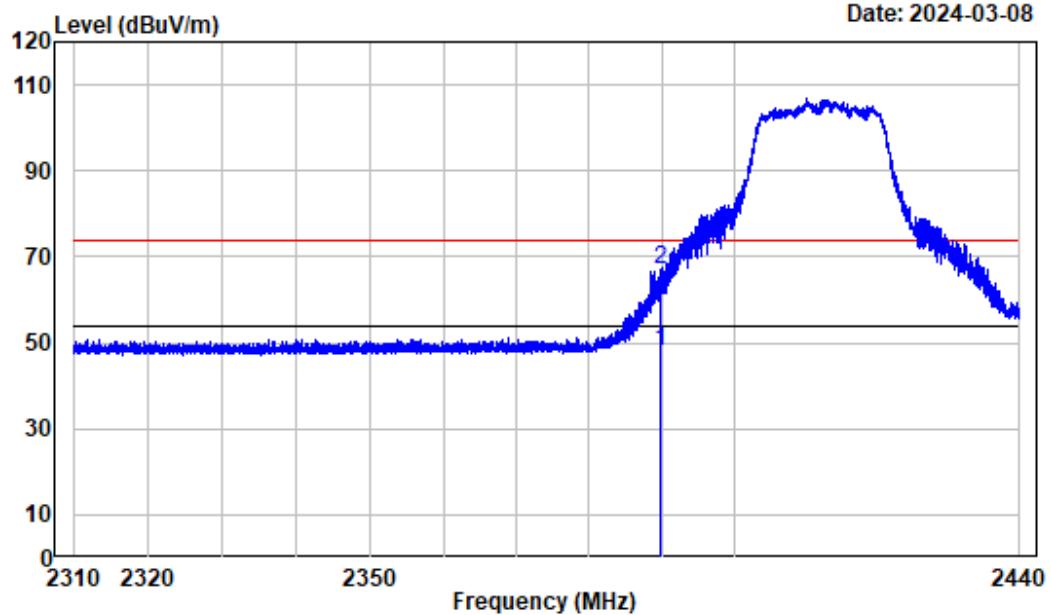






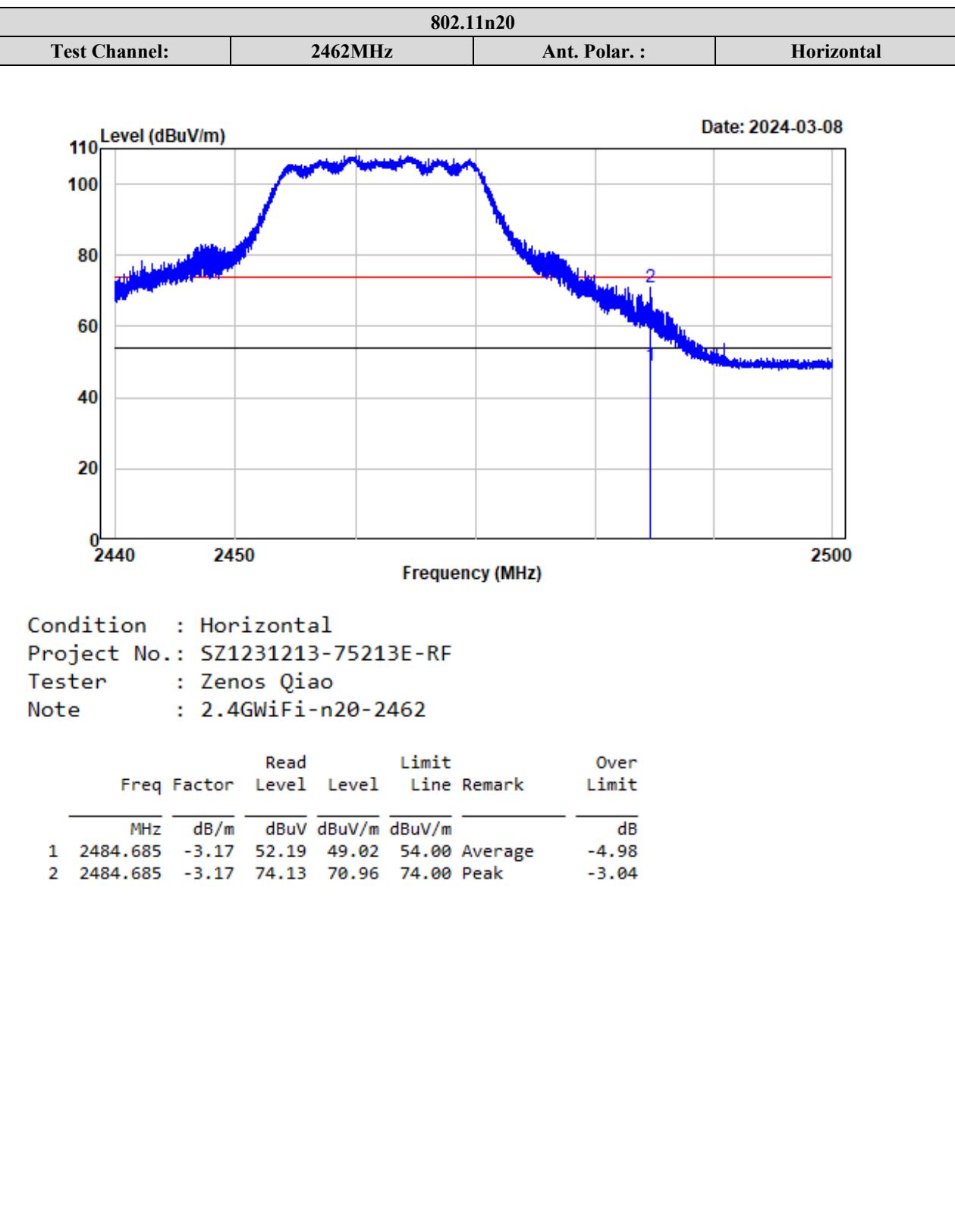
802.11n20

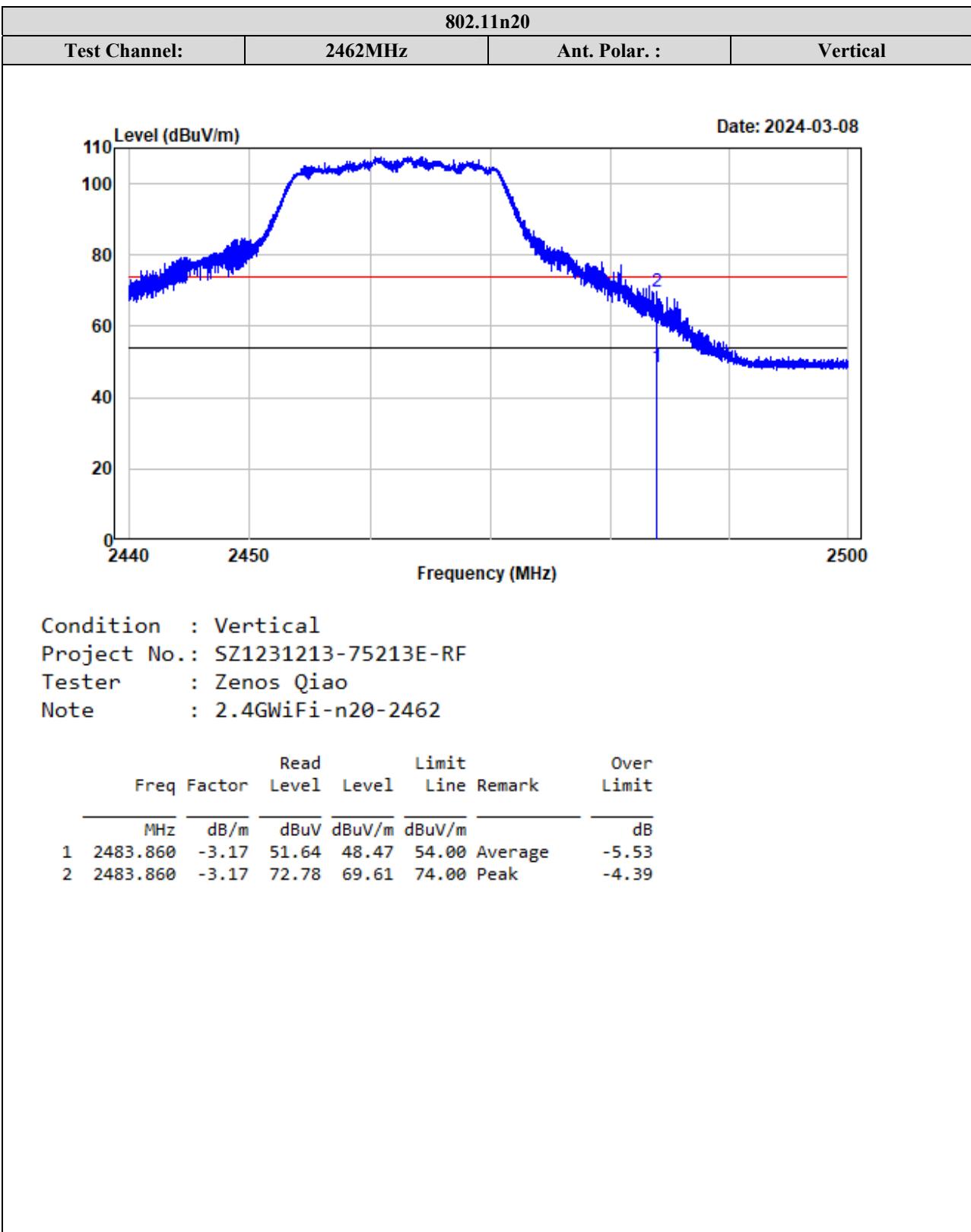
Test Channel:	2412MHz	Ant. Polar. :	Vertical
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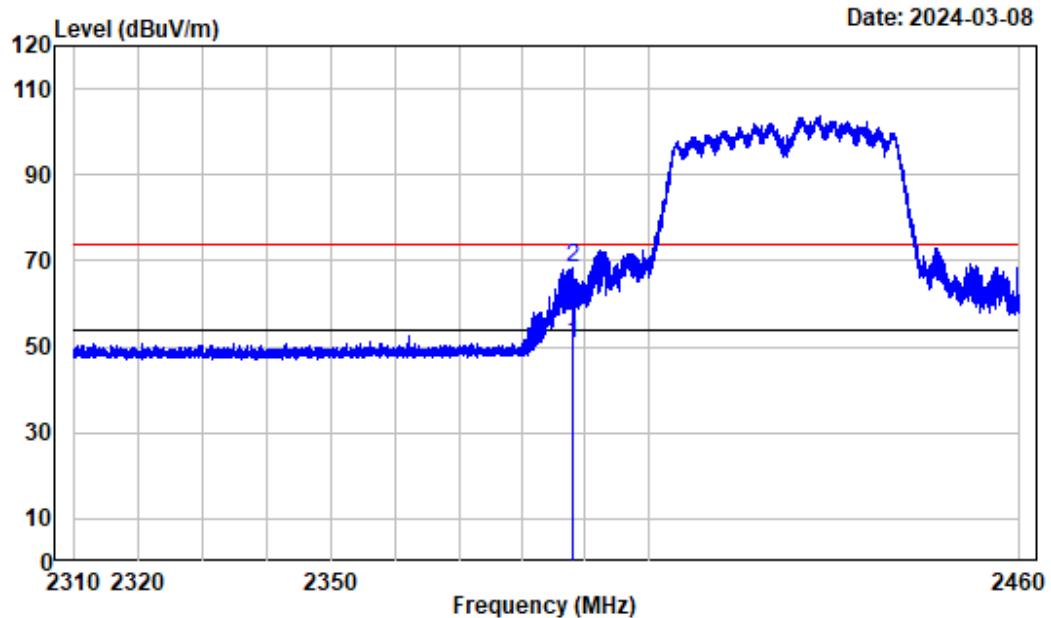
Condition : Vertical
Project No.: SZ1231213-75213E-RF
Tester : Zenos Qiao
Note : 2.4GHzFi-n20-2412

Freq	Factor	Read		Limit		Over Limit
		Level	Level	Line	Remark	
1	2389.820	-3.20	51.04	47.84	54.00 Average	-6.16
2	2389.820	-3.20	70.24	67.04	74.00 Peak	-6.96





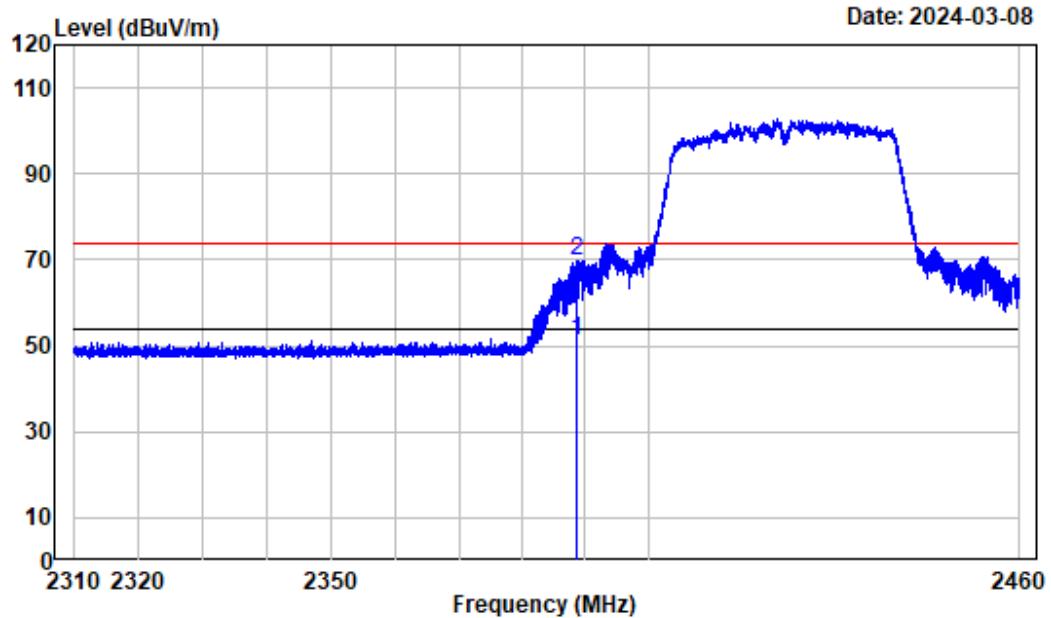
Test Channel:	2422MHz	Ant. Polar. :	Horizontal
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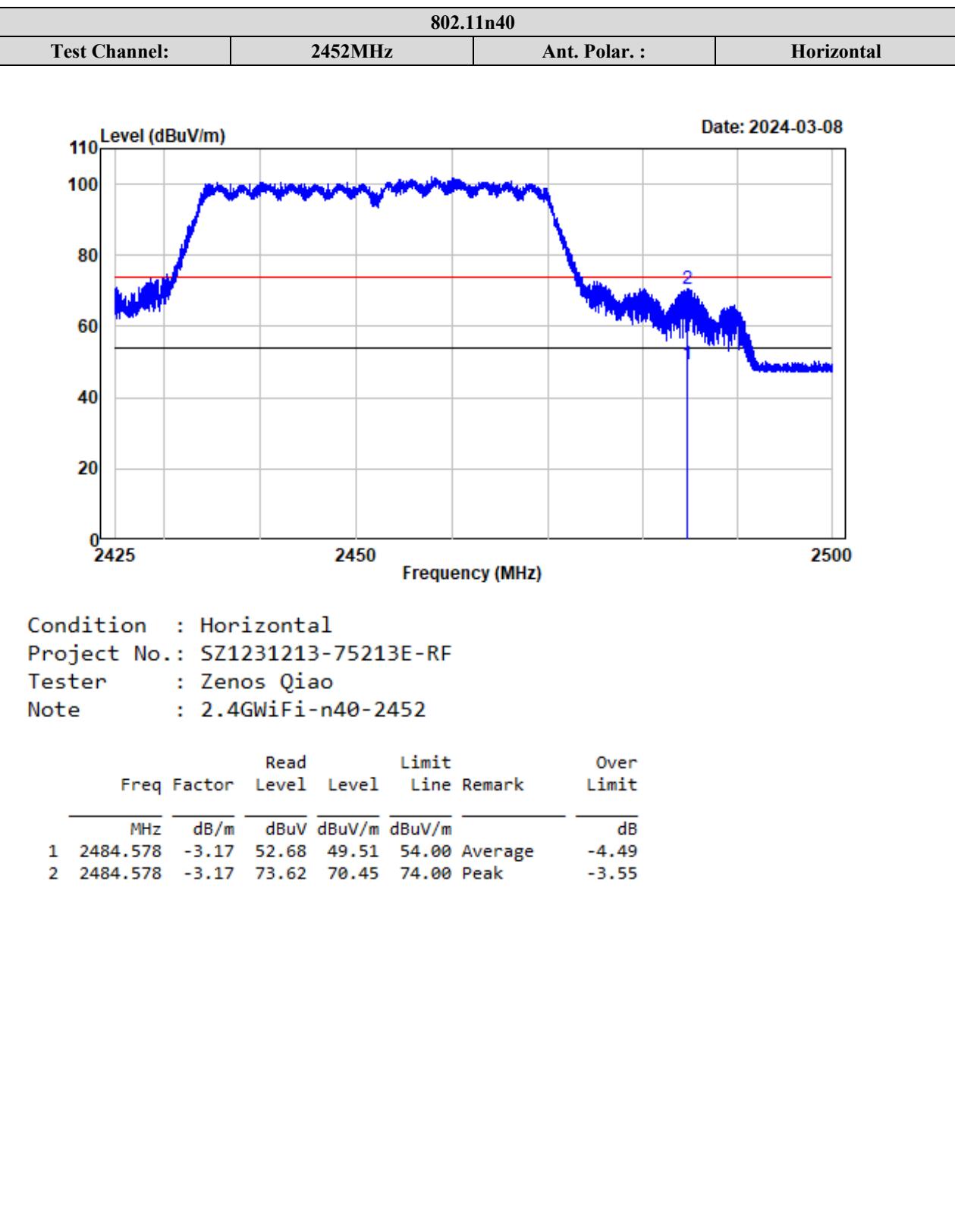
Condition : Horizontal
Project No.: SZ1231213-75213E-RF
Tester : Zenos Qiao
Note : 2.4GWiFi-n40-2422

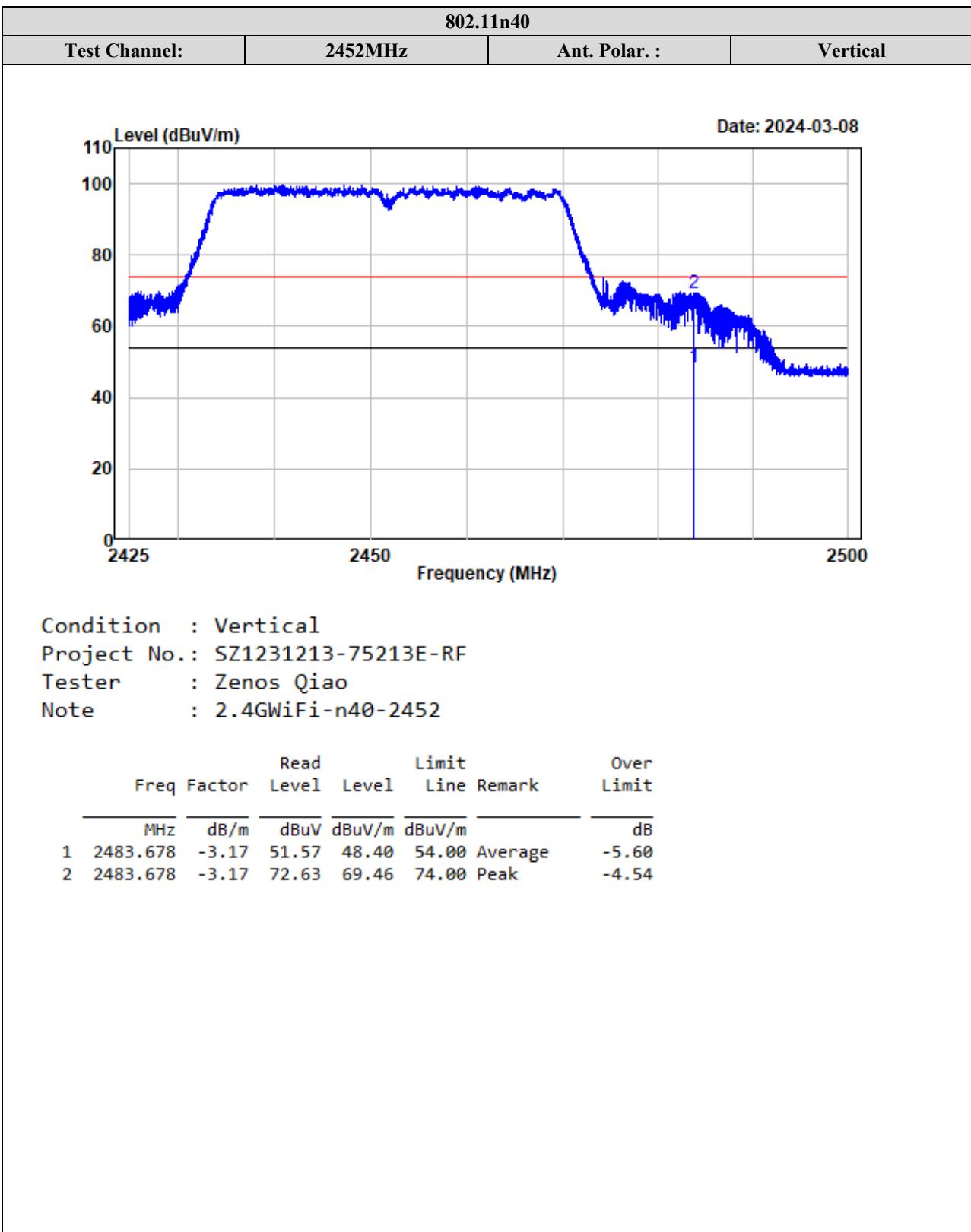
Freq	Factor	Read		Limit		Over Limit
		Level	Level	Line	Remark	
1	2387.887	-3.20	53.87	50.67	54.00 Average	-3.33
2	2387.887	-3.20	71.43	68.23	74.00 Peak	-5.77

Test Channel:	2422MHz	Ant. Polar. :	Vertical
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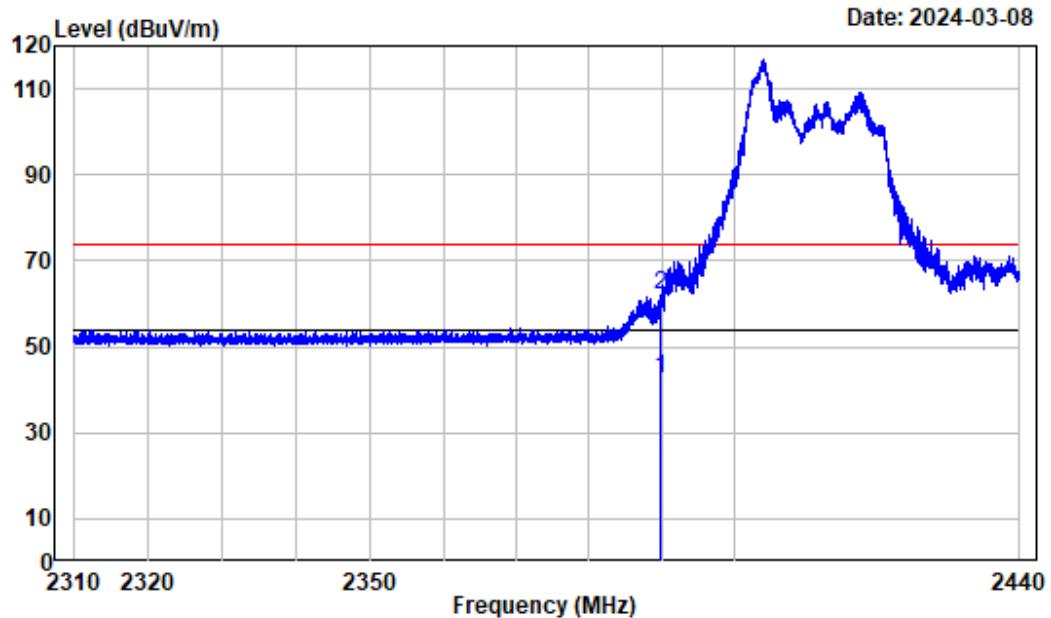


Freq	Factor	Read		Limit		Over Limit
		Level	Level	Line	Remark	
1	2388.544	-3.20	54.14	50.94	54.00 Average	-3.06
2	2388.544	-3.20	73.13	69.93	74.00 Peak	-4.07





802.11ax20			
Test Channel:	2412MHz_26Tone_RU0	Ant. Polar. :	Horizontal



Condition : Horizontal

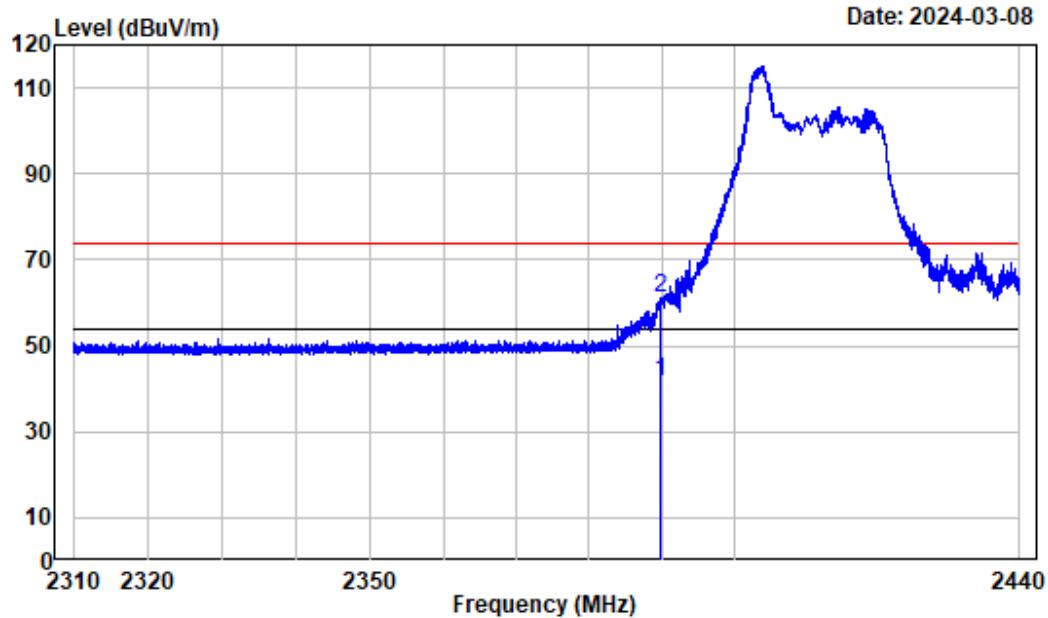
Project No.: SZ1231213-75213E-RF

Tester : Zenos Qiao

Note : 2.4GHz WiFi-ax20-2412_26Tone_RU0(Worst Case)

Freq	Factor	Read		Limit		Over Limit
		Level	Level	Line	Remark	
1	2389.771	-3.20	45.87	42.67	54.00 Average	-11.33
2	2389.771	-3.20	65.46	62.26	74.00 Peak	-11.74

802.11ax20			
Test Channel:	2412MHz_26Tone_RU0	Ant. Polar. :	Vertical



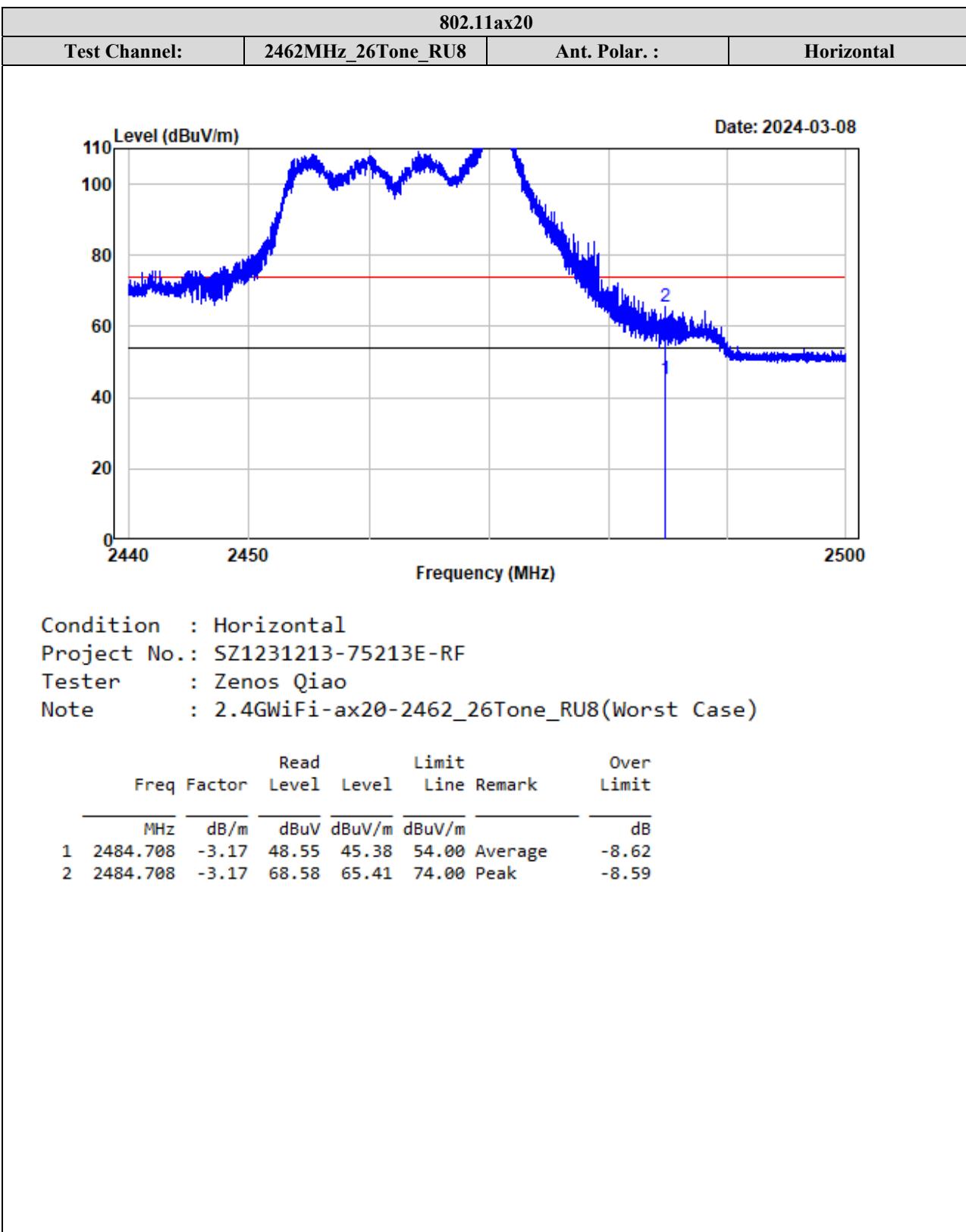
Condition : Vertical

Project No.: SZ1231213-75213E-RF

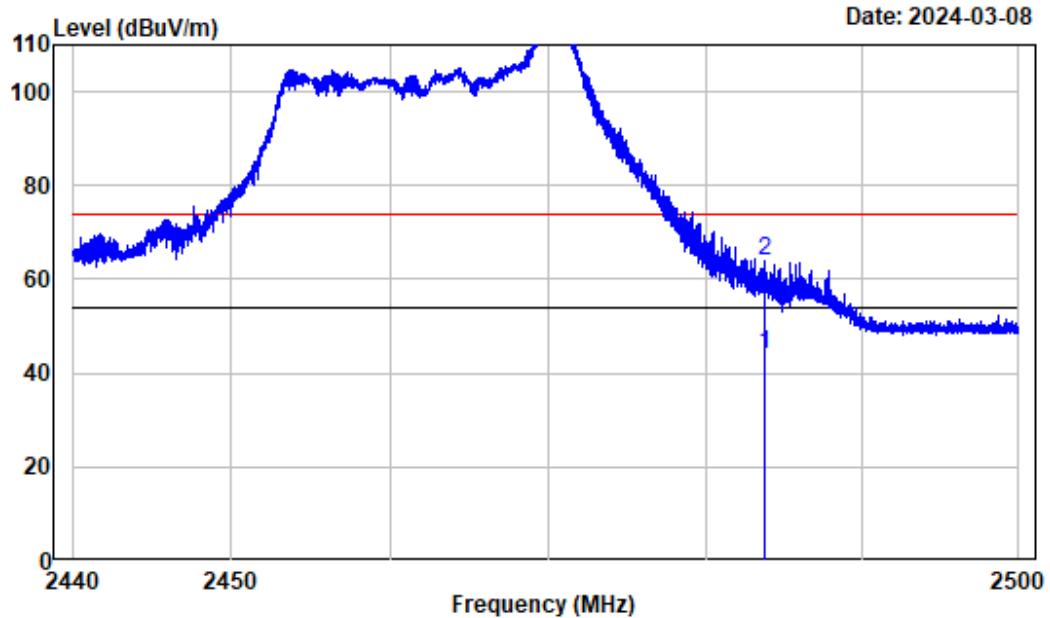
Tester : Zenos Qiao

Note : 2.4GHz WiFi-ax20-2412_26Tone_RU0(Worst Case)

Freq	Factor	Read		Limit		Over Limit
		Level	Level	Line	Remark	
1	2389.836	-3.20	44.85	41.65	54.00 Average	-12.35
2	2389.836	-3.20	64.22	61.02	74.00 Peak	-12.98



802.11ax20			
Test Channel:	2462MHz_26Tone_RU8	Ant. Polar. :	Vertical



Condition : Vertical

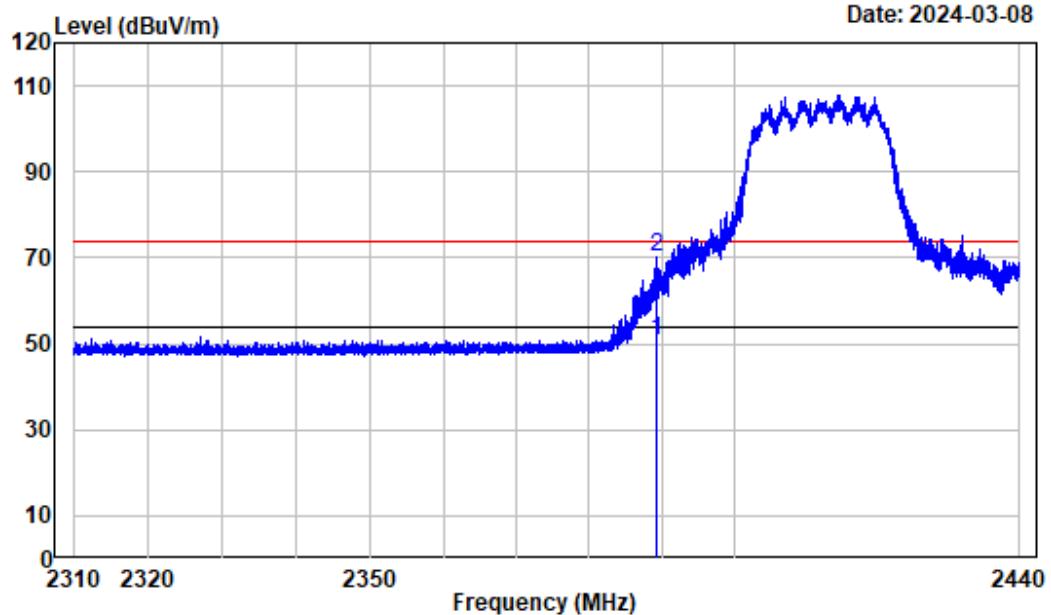
Project No.: SZ1231213-75213E-RF

Tester : Zenos Qiao

Note : 2.4GHz WiFi-ax20-2462_26Tone_RU8(Worst Case)

Freq	Factor	Read		Limit		Over Limit
		Level	Level	Line	Remark	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 2483.762	-3.17	47.27	44.10	54.00	Average	-9.90
2 2483.762	-3.17	67.29	64.12	74.00	Peak	-9.88

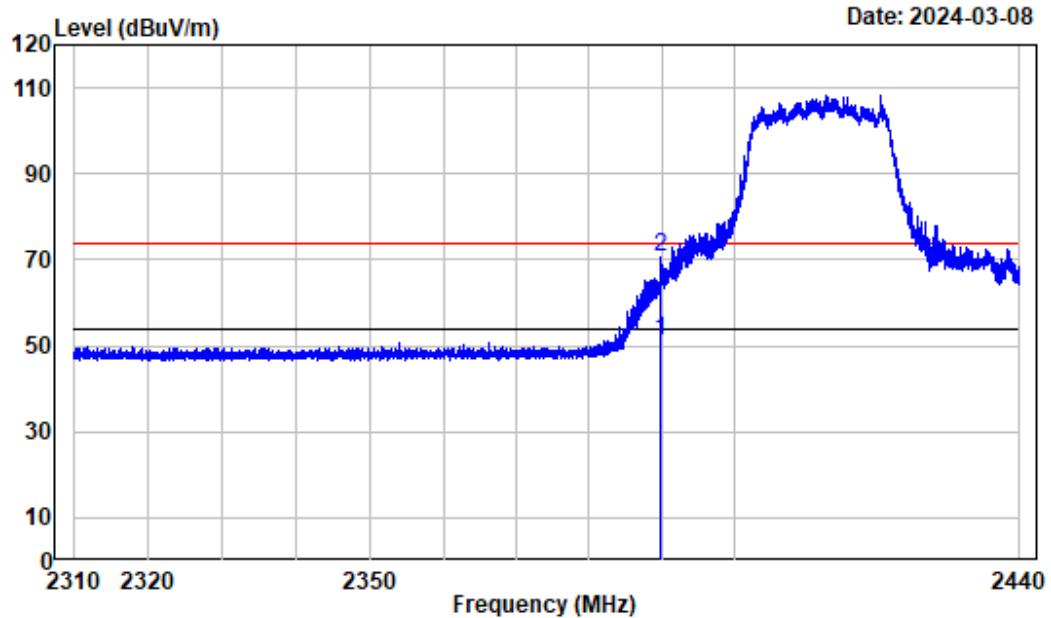
802.11ax20			
Test Channel:	2412MHz_242Tone_RU61	Ant. Polar. :	Horizontal



Condition : Horizontal
Project No.: SZ1231213-75213E-RF
Tester : Zenos Qiao
Note : 2.4GHz WiFi-ax20-2412

Freq	Factor	Read		Limit		Over Limit
		Level	dBuV	Line	dBuV/m	
1	2389.397	-3.20	53.94	50.74	54.00	Average -3.26
2	2389.397	-3.20	73.18	69.98	74.00	Peak -4.02

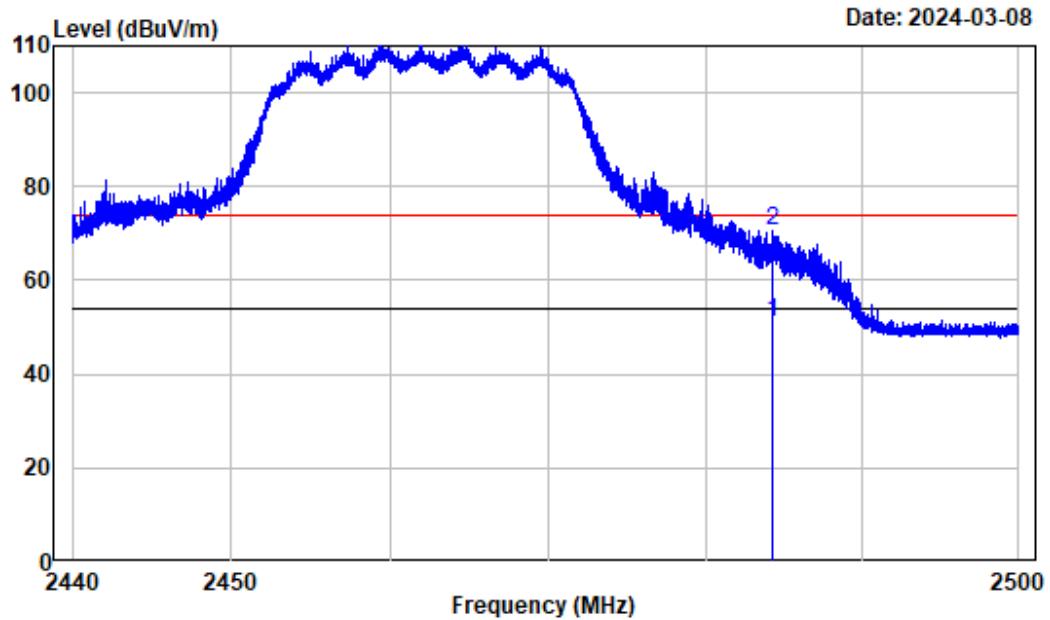
802.11ax20			
Test Channel:	2412MHz_242Tone_RU61	Ant. Polar. :	Vertical



Condition : Vertical
Project No.: SZ1231213-75213E-RF
Tester : Zenos Qiao
Note : 2.4GHz WiFi-ax20-2412

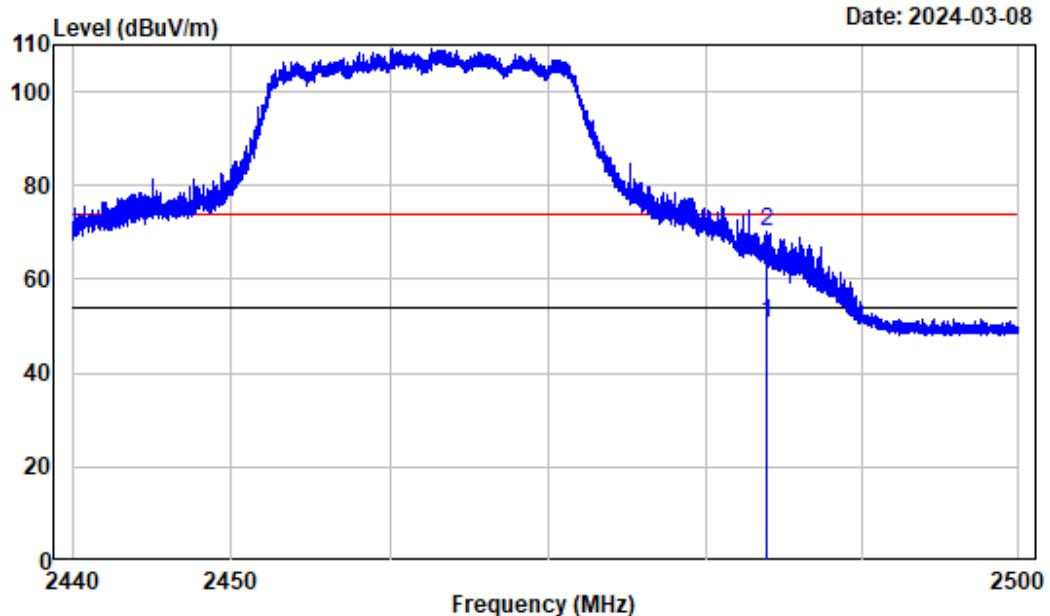
Freq	Factor	Read		Limit		Over Limit
		Level	Level	Line	Remark	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 2389.869	-3.20	54.17	50.97	54.00	Average	-3.03
2 2389.869	-3.20	73.93	70.73	74.00	Peak	-3.27

Test Channel:	2462MHz_242Tone_RU61	Ant. Polar. :	Horizontal
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Test Channel:	2462MHz_242Tone_RU61	Ant. Polar. :	Vertical
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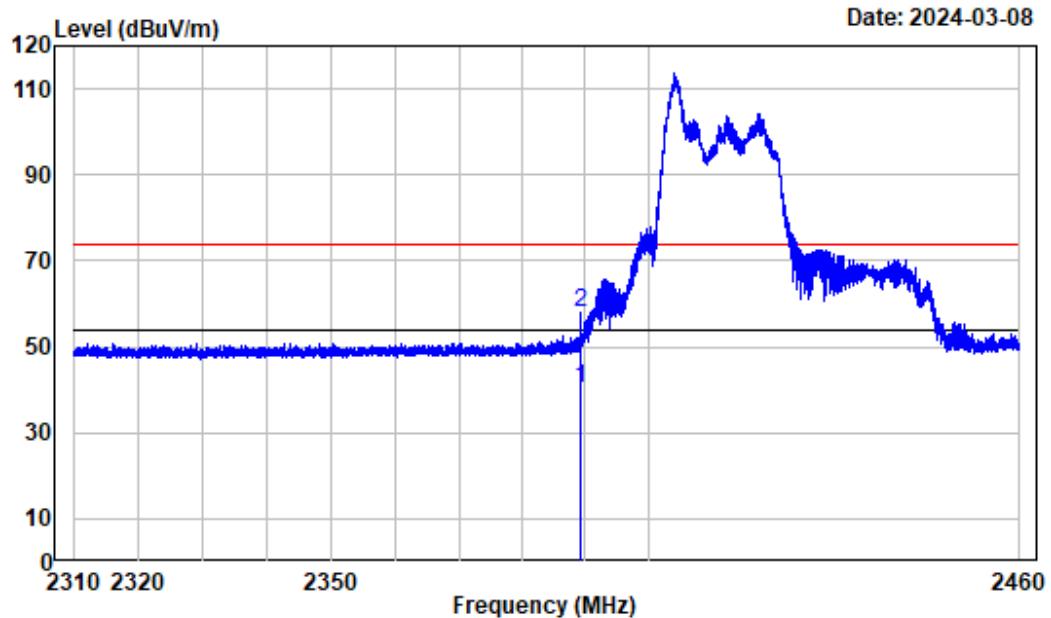
802.11ax20

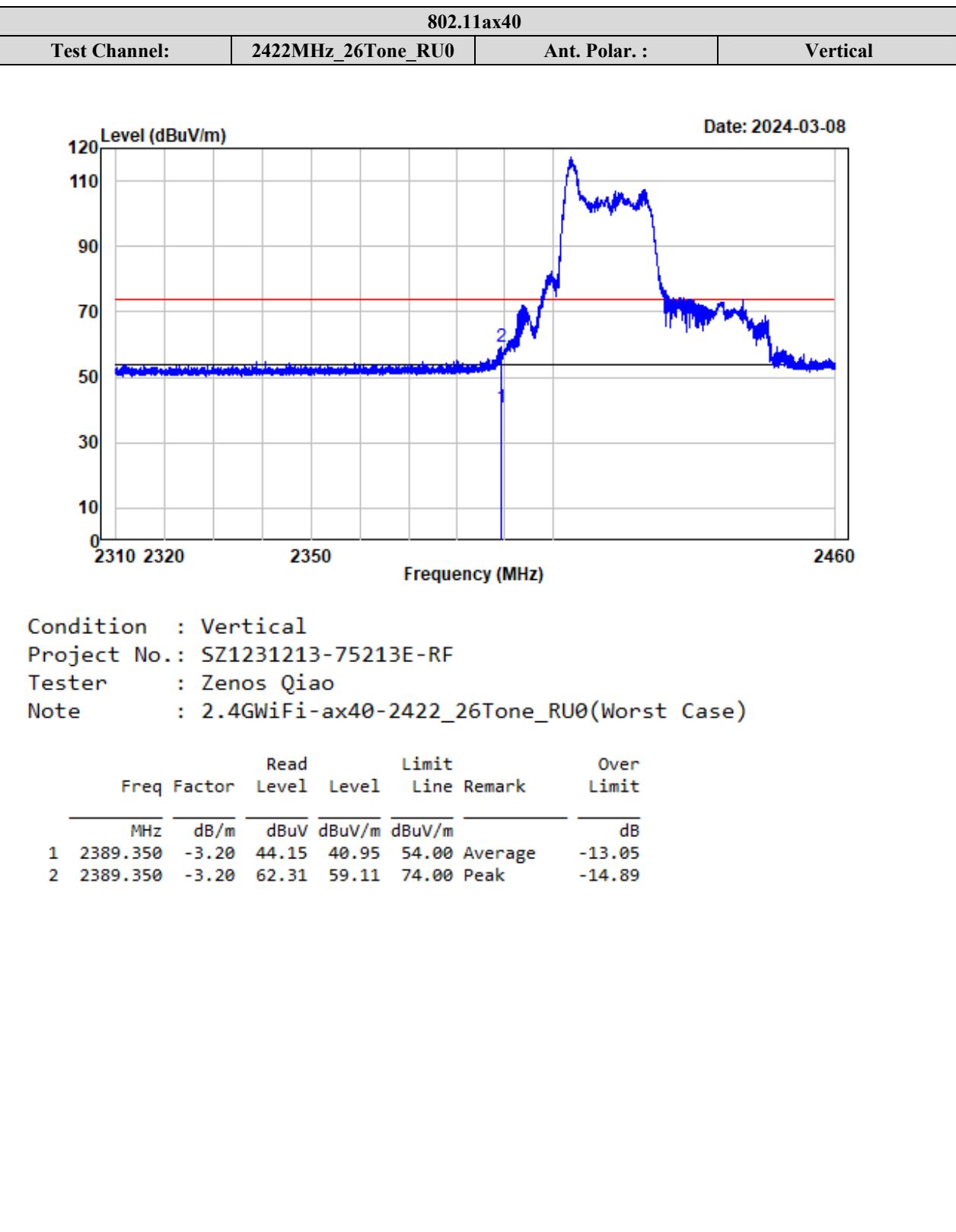


Condition : Vertical
Project No.: SZ1231213-75213E-RF
Tester : Zenos Qiao
Note : 2.4GHzWiFi-ax20-2462

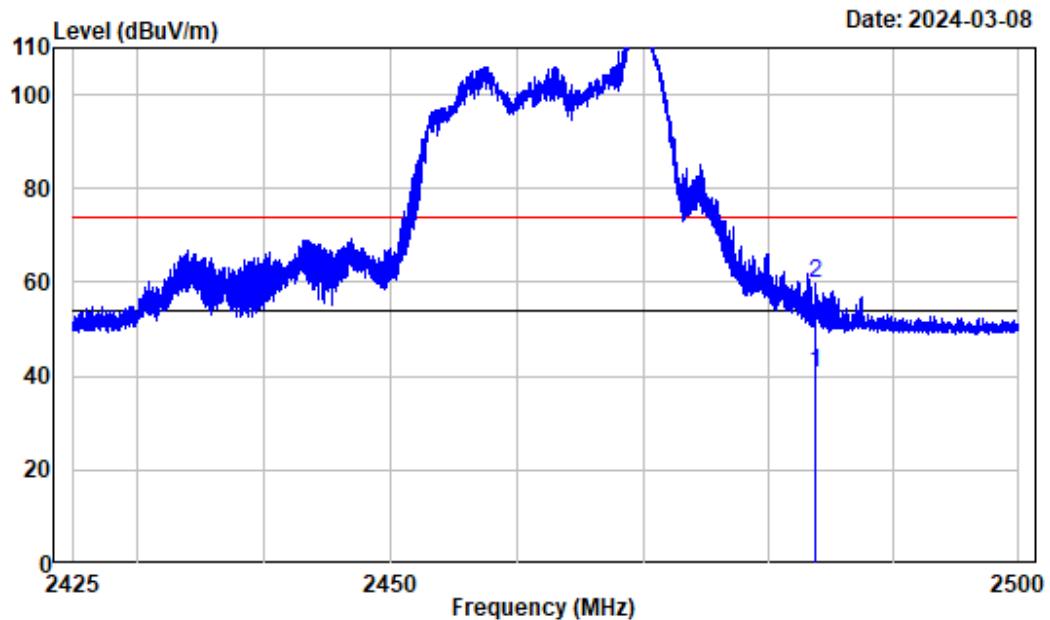
Freq	Factor	Read		Limit		Over Limit
		Level	Level	Line	Remark	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 2483.867	-3.17	53.78	50.61	54.00	Average	-3.39
2 2483.867	-3.17	73.11	69.94	74.00	Peak	-4.06

802.11ax40			
Test Channel:	2422MHz_26Tone_RU0	Ant. Polar. :	Horizontal

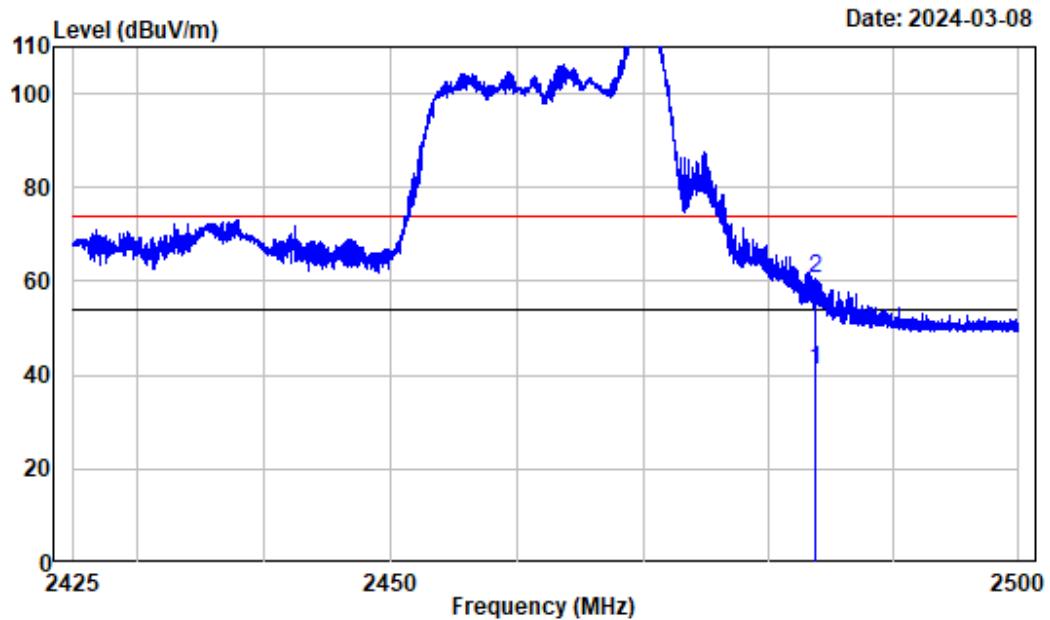




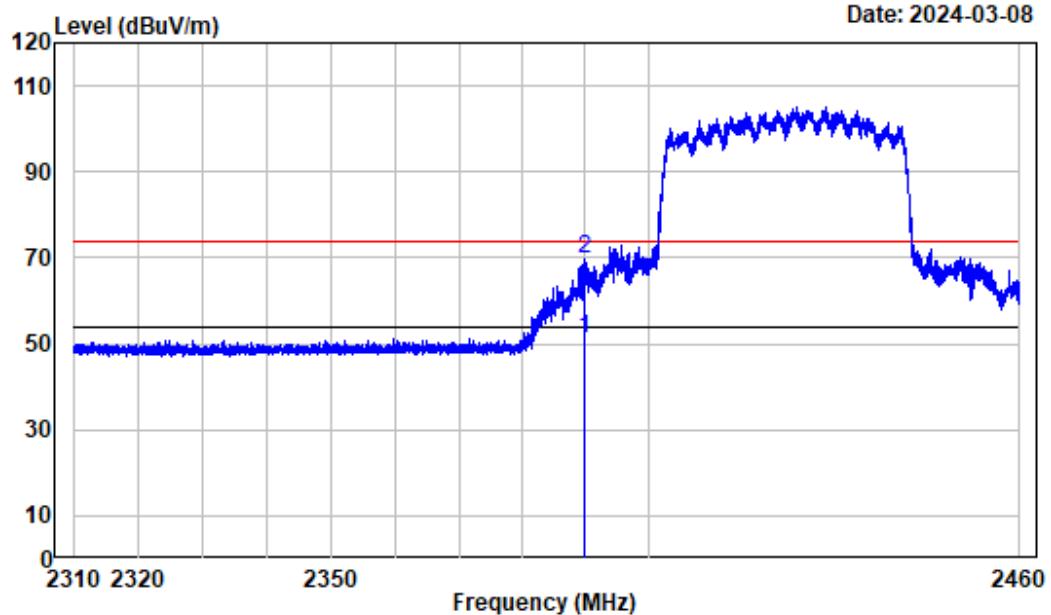
802.11ax40			
Test Channel:	2452MHz_26Tone_RU17	Ant. Polar. :	Horizontal



802.11ax40			
Test Channel:	2452MHz_26Tone_RU17	Ant. Polar. :	Vertical

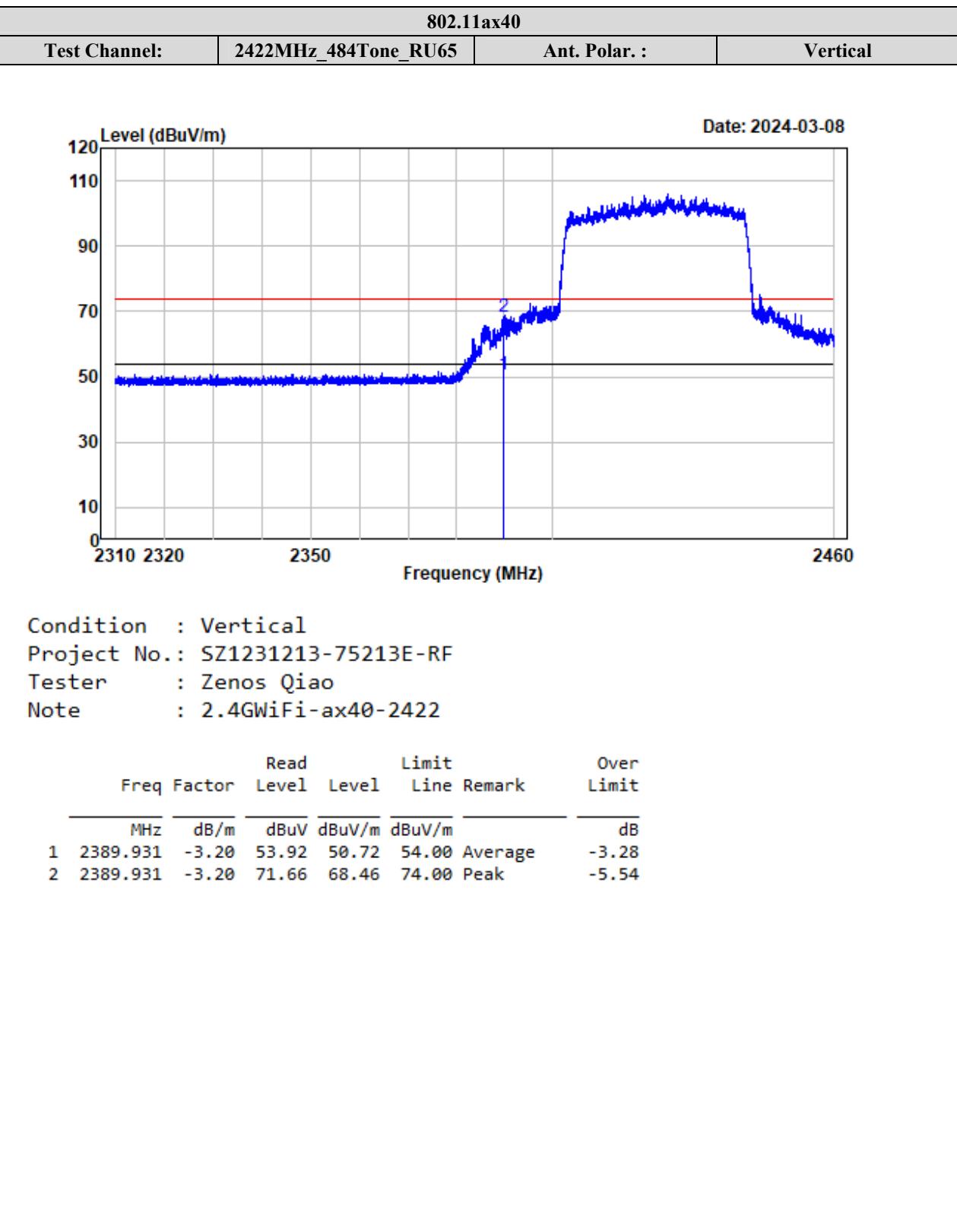


Freq	Factor	Read		Limit		Over Limit
		Level	Level	Line	Remark	
1	2483.650	-3.17	44.27	41.10	54.00 Average	-12.90
2	2483.650	-3.17	63.88	60.71	74.00 Peak	-13.29

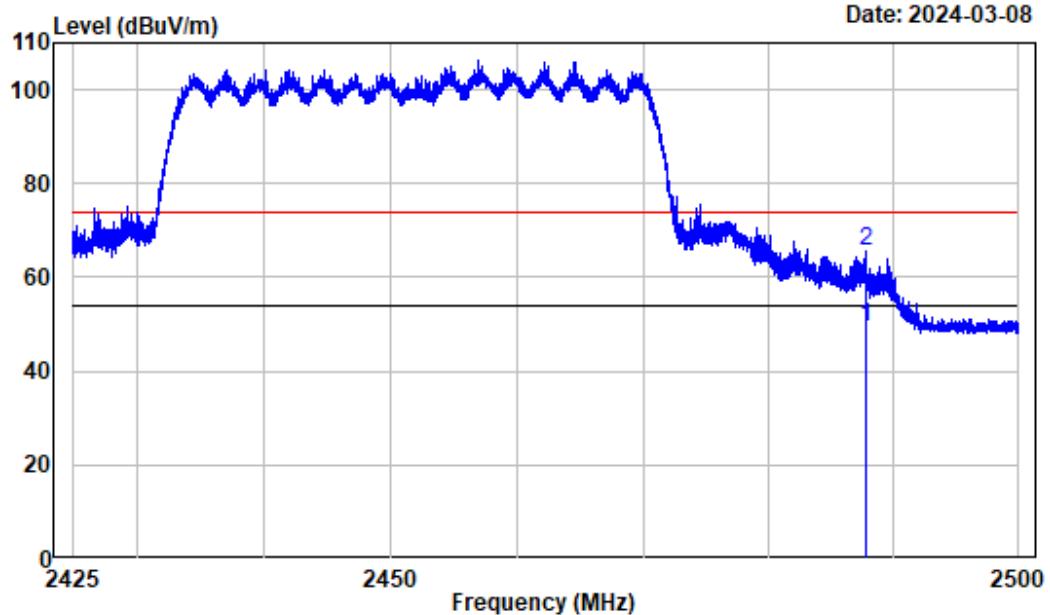
802.11ax40Test Channel: **2422MHz_484Tone_RU65** Ant. Polar. : **Horizontal**

Condition : Horizontal
Project No.: SZ1231213-75213E-RF
Tester : Zenos Qiao
Note : 2.4GHzWiFi-ax40-2422

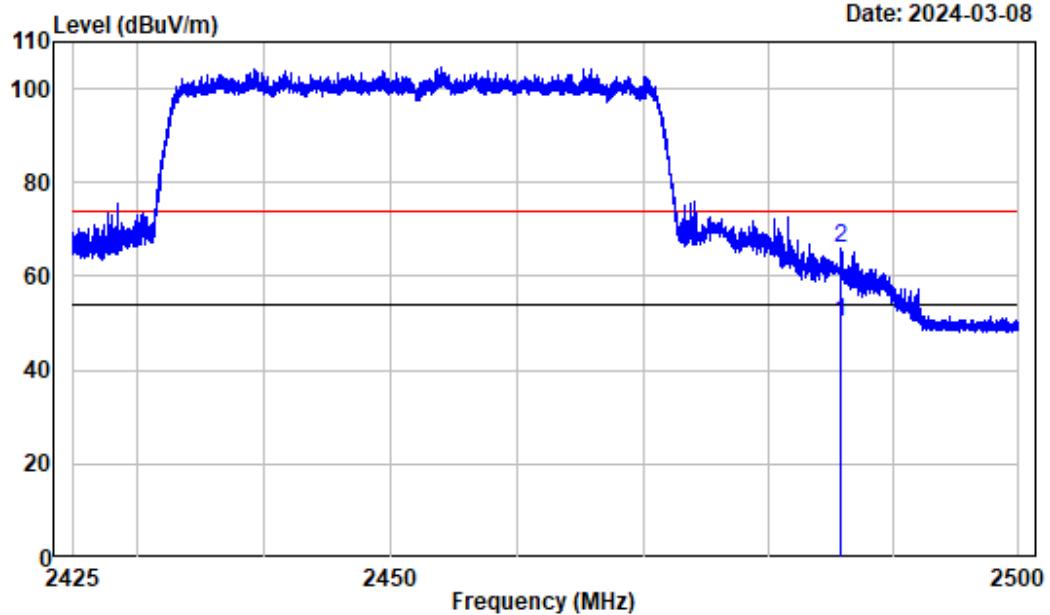
Freq	Factor	Read		Limit		Over Limit
		Level	Level	Line	Remark	
1	2389.894	-3.20	54.19	50.99	54.00 Average	-3.01
2	2389.894	-3.20	72.90	69.70	74.00 Peak	-4.30



802.11ax40			
Test Channel:	2452MHz_484Tone_RU65	Ant. Polar. :	Horizontal



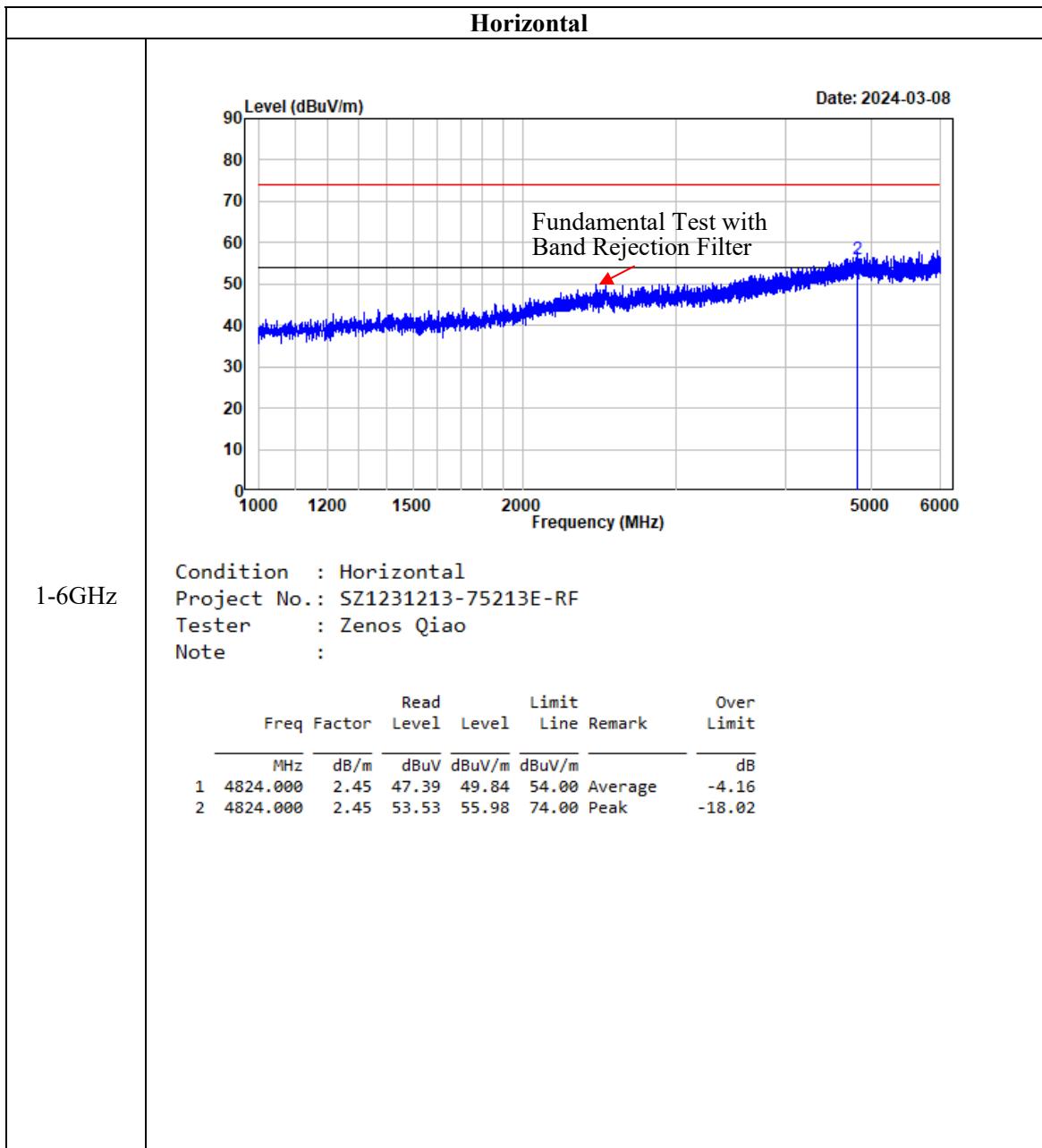
802.11ax40			
Test Channel:	2452MHz_484Tone_RU65	Ant. Polar. :	Vertical

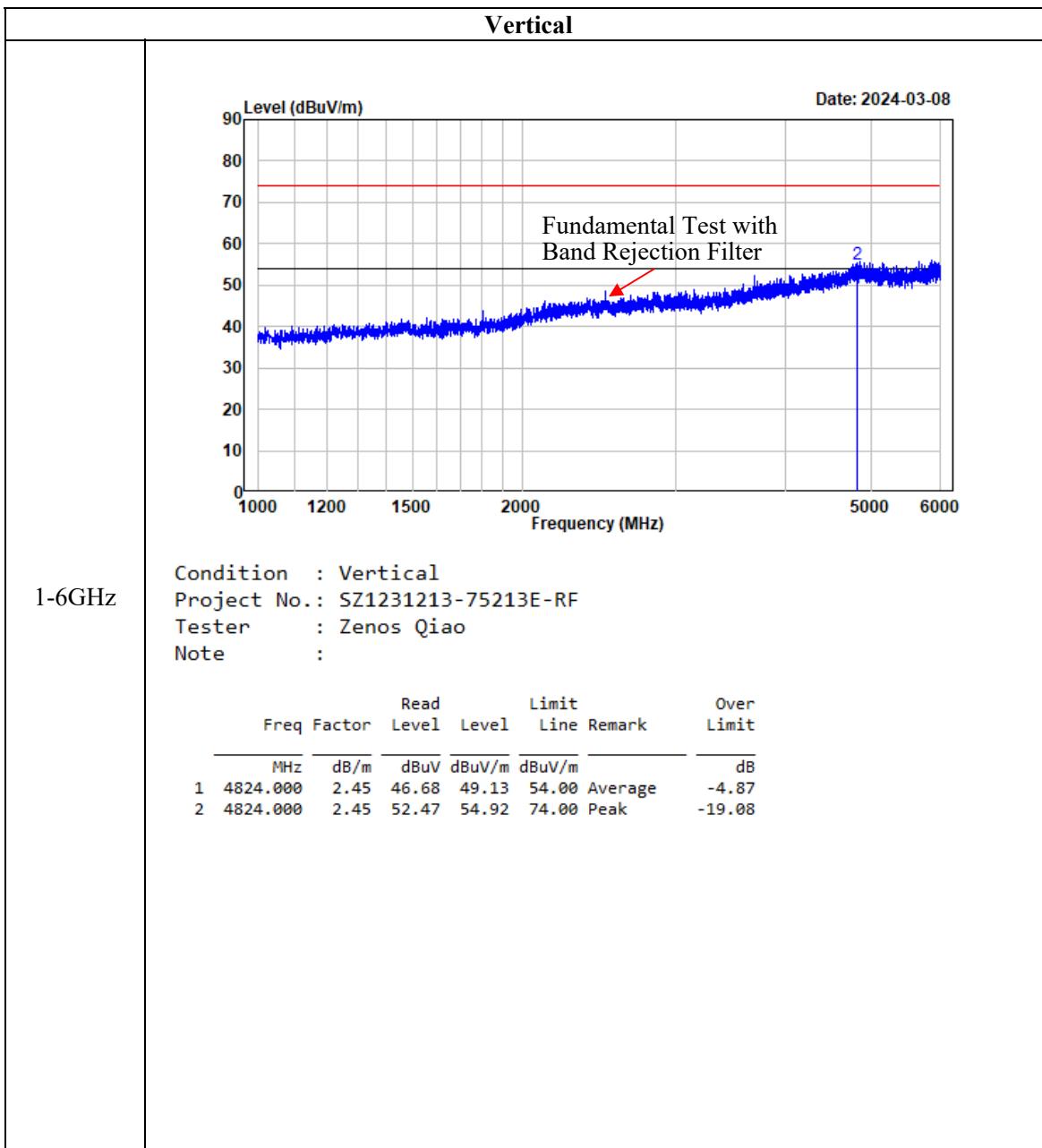


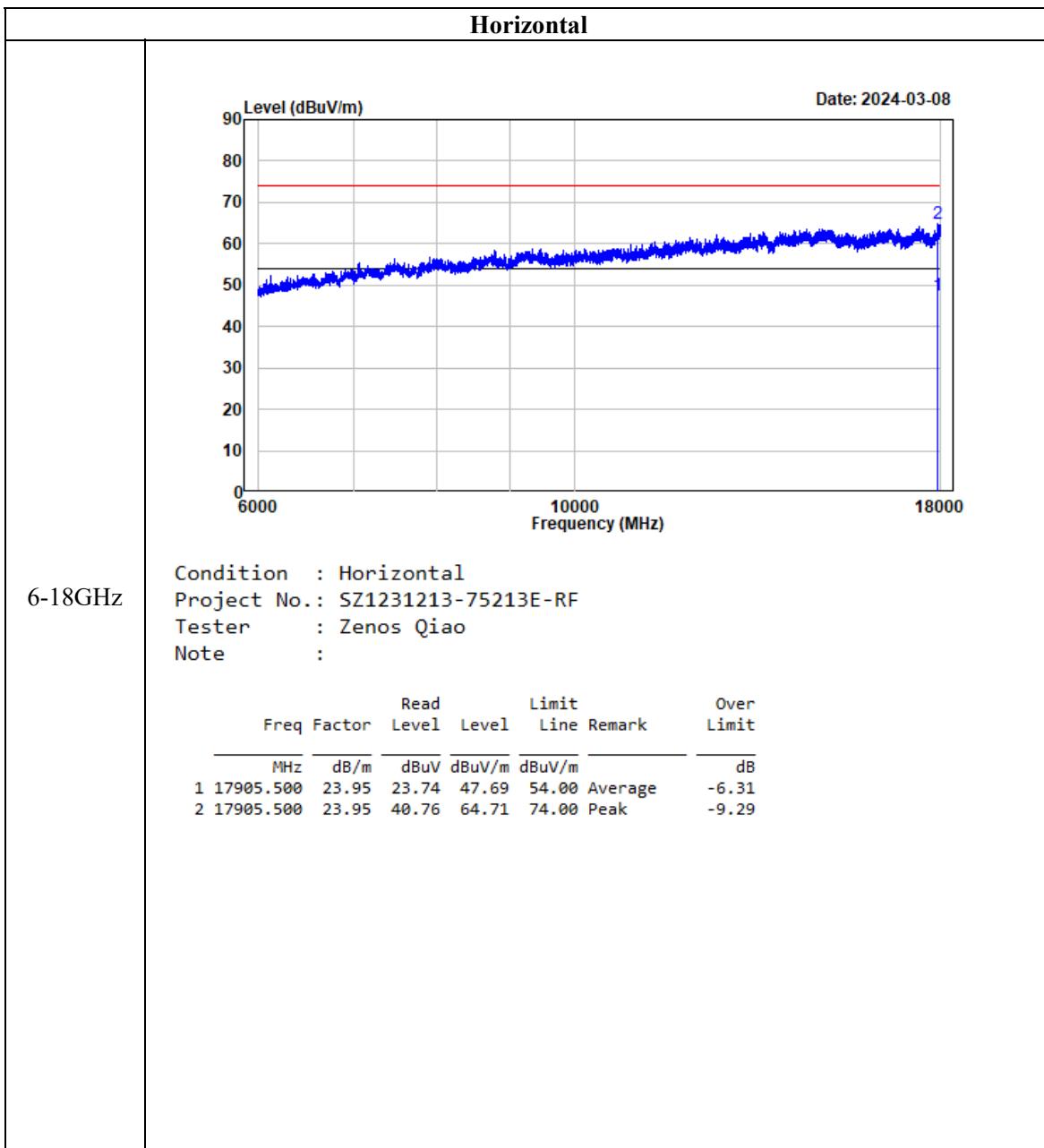
Condition : Vertical
Project No.: SZ1231213-75213E-RF
Tester : Zenos Qiao
Note : 2.4GHz WiFi-ax40-2452

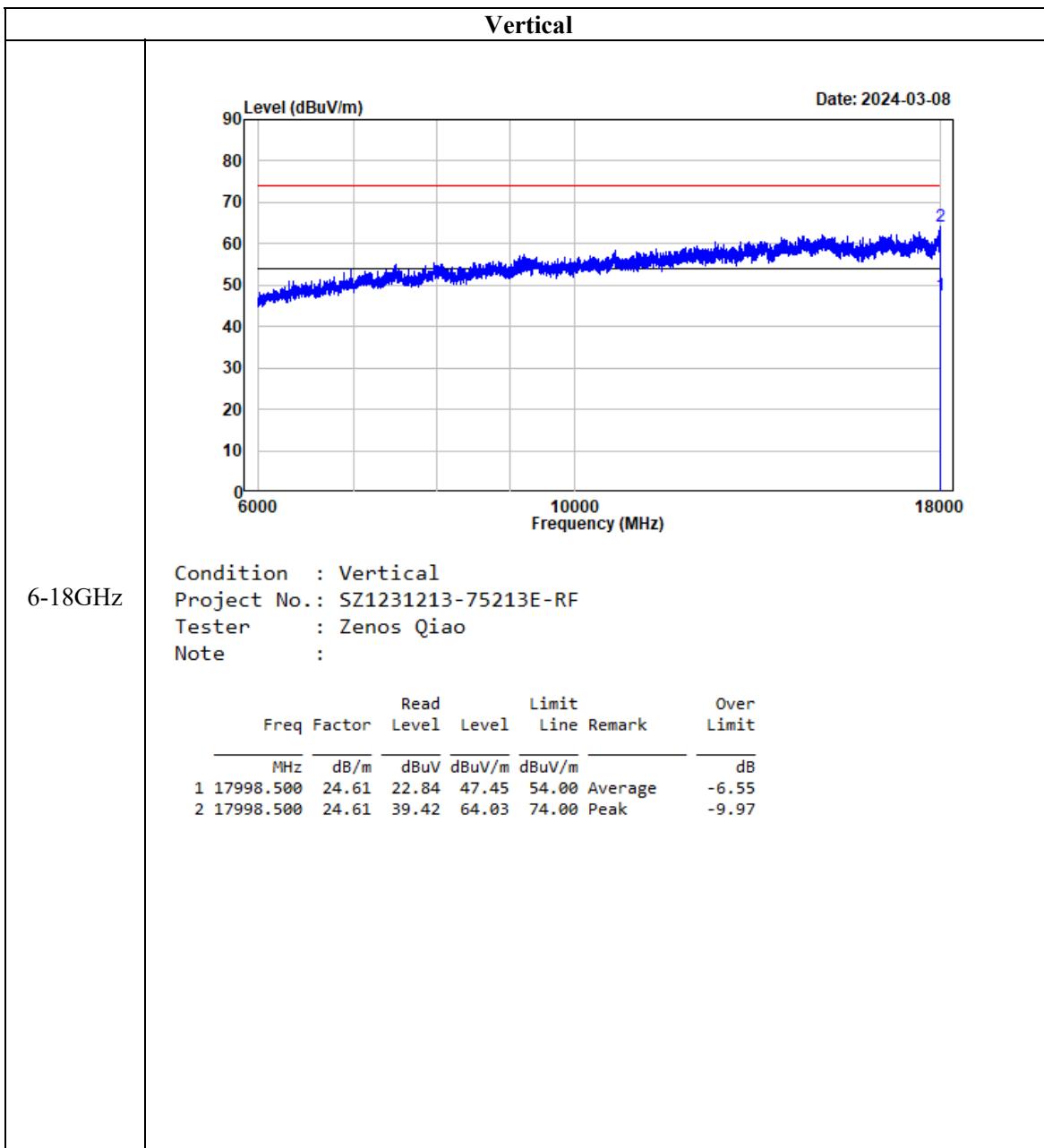
Freq	Factor	Read		Limit		Over Limit
		Level	Level	Line	Remark	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 2485.741	-3.17	53.48	50.31	54.00	Average	-3.69
2 2485.741	-3.17	69.05	65.88	74.00	Peak	-8.12

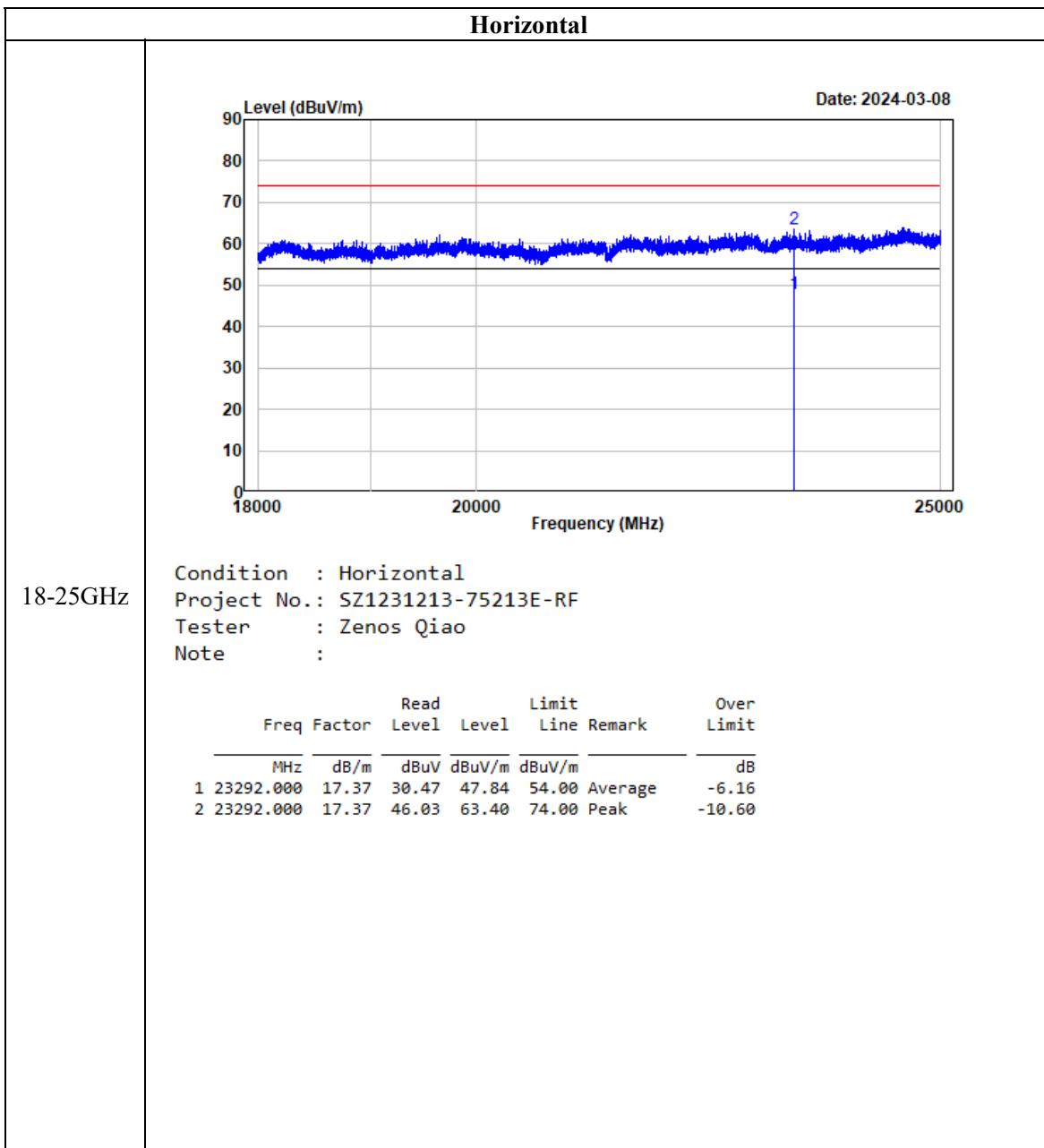
Listed with the worst harmonic margin test plot: (802.11b ANT1, 2412MHz)

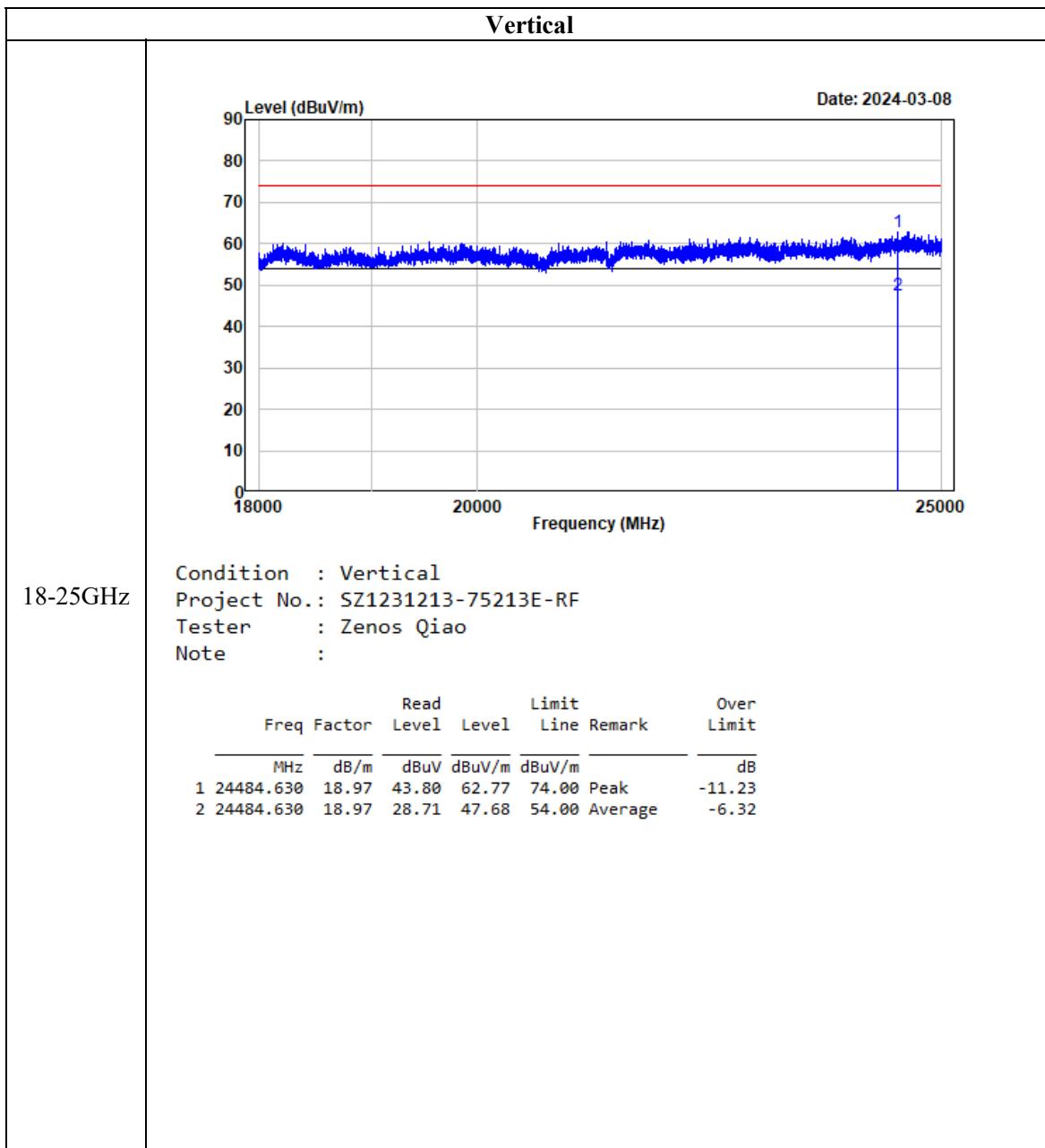












FCC §15.247(a) (2) – 6 dB EMISSION BANDWIDTH & OCCUPIED BANDWIDTH

Applicable Standard

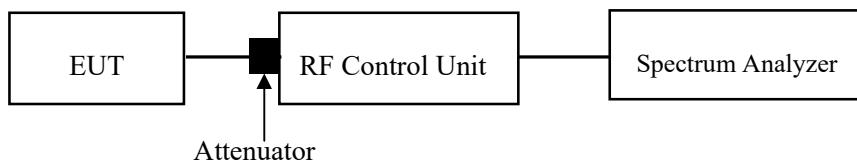
Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

Test Procedure

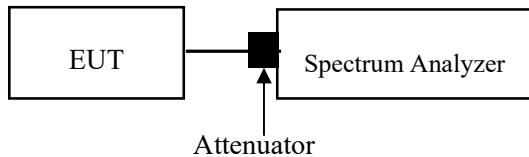
Test Method: ANSI C63.10-2013 Clause 11.8.1 & Clause 6.9.3

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that were attenuated 6 dB from the reference level. Record the frequency difference as the emission bandwidth.
4. Repeat above procedures until all frequencies measured were complete.

For Wi-Fi Mode:



For BLE Mode:



Test Data

Environmental Conditions

Temperature:	23.2~24.6 °C
Relative Humidity:	46~57 %
ATM Pressure:	100.1~101.0 kPa

The testing was performed by Bamboo Zhan on 2024-01-30 and Tom Liu on 2024-03-09 and 2024-03-12.

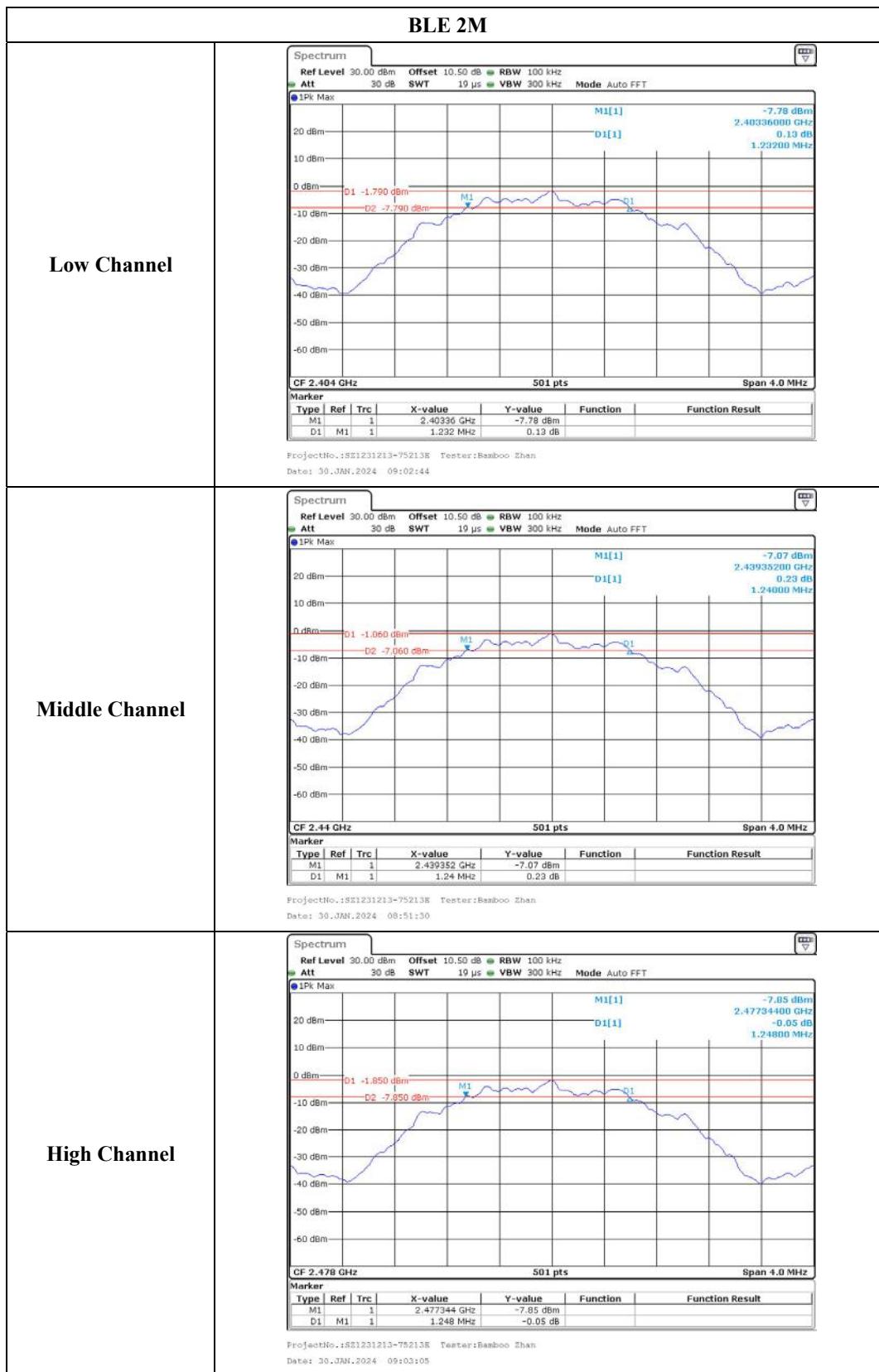
EUT operation mode: Transmitting

Test Result: Compliant.

Test Modes	Test Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)
BLE 1Mbps	2402	0.724	≥0.5
	2440	0.724	≥0.5
	2480	0.724	≥0.5
BLE 2Mbps	2404	1.232	≥0.5
	2440	1.240	≥0.5
	2478	1.248	≥0.5

The test data of Wi-Fi please refer to the Appendix.

6 dB Bandwidth



FCC §15.247(b) (3) - MAXIMUM CONDUCTED OUTPUT POWER

Applicable Standard

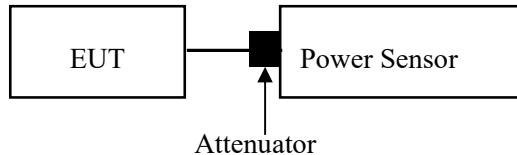
According to FCC §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

Test Procedure

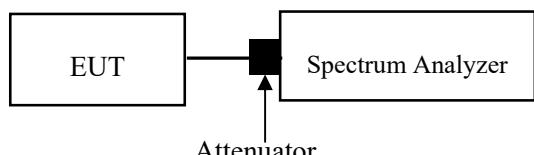
Test Method: ANSI C63.10-2013 Clause 11.9.1.1 for BLE & Clause 11.9.2.3.2 for Wi-Fi

1. Place the EUT on a bench and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.
3. Add a correction factor to the display.

For Wi-Fi mode:



For BLE mode:



Test Data

Environmental Conditions

Temperature:	23.2~24.6 °C
Relative Humidity:	46~57 %
ATM Pressure:	100.1~101.0 kPa

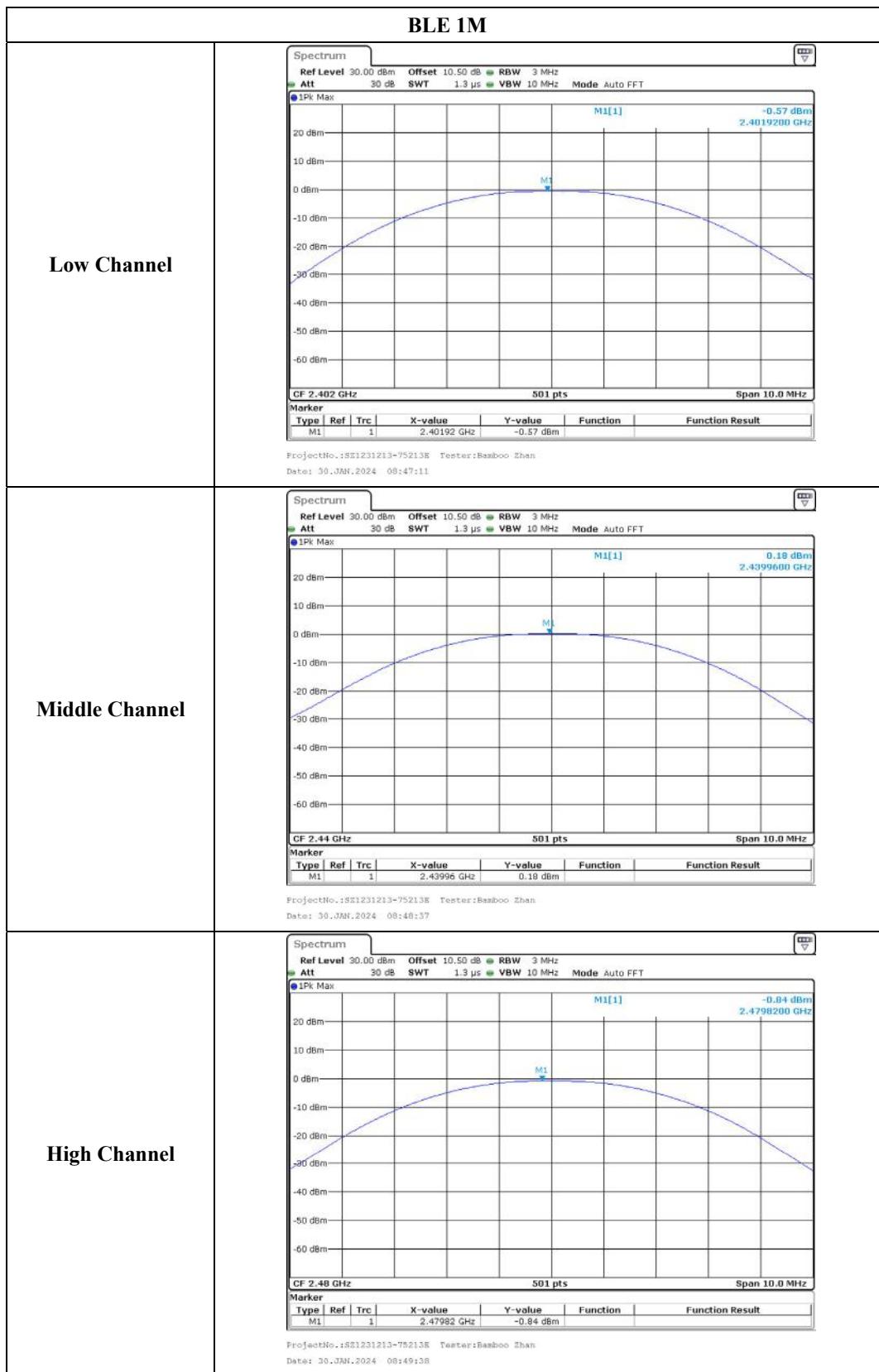
The testing was performed by Bamboo Zhan on 2024-01-30 and Tom Liu on 2024-03-09 and 2024-03-12.

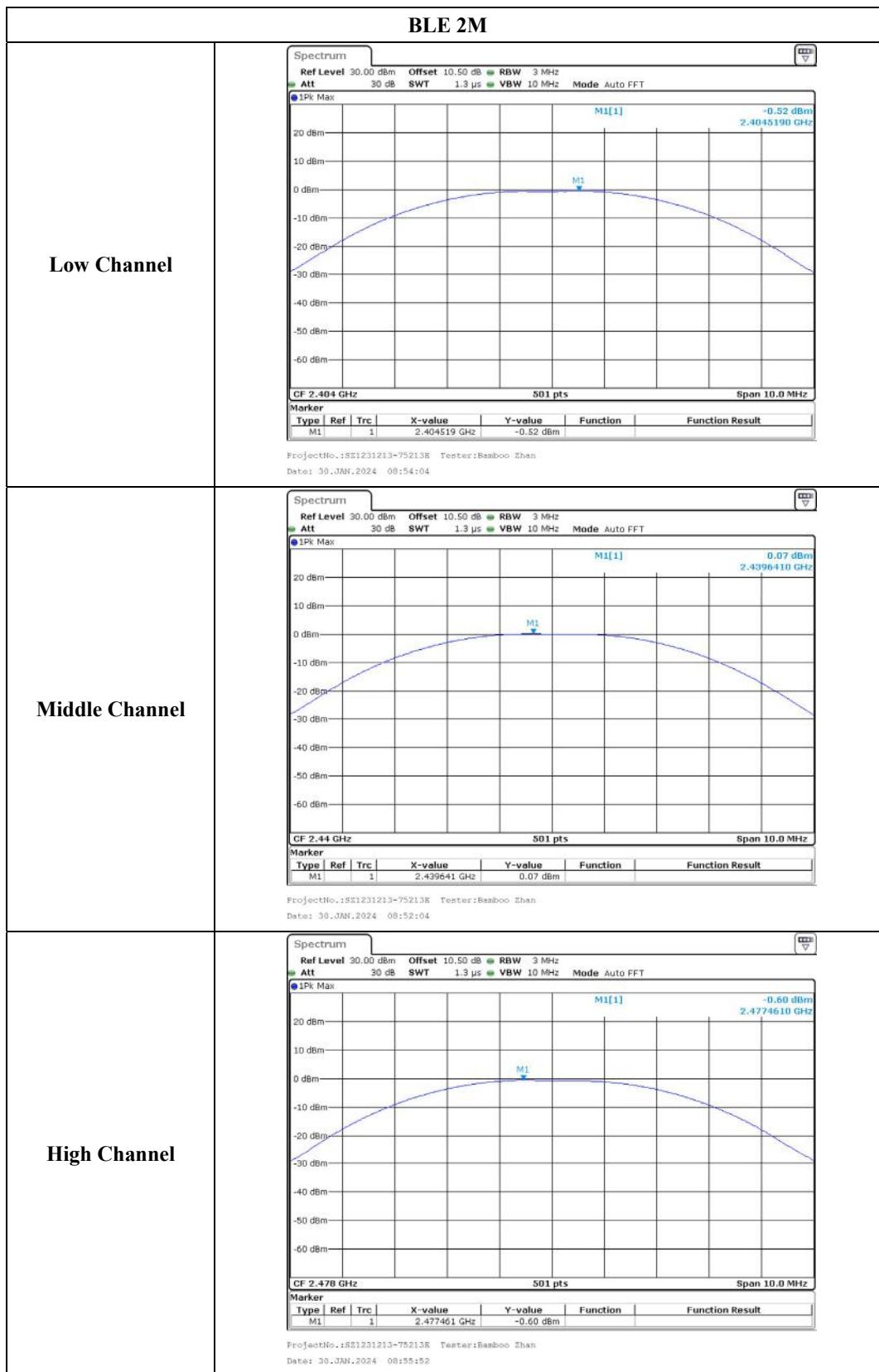
EUT operation mode: Transmitting

Test Result: Compliant.

Test Modes	Test Frequency (MHz)	Peak Conducted Output Power (dBm)	Limits (dBm)
BLE 1M	2402	-0.57	≤30
	2440	0.18	≤30
	2480	-0.84	≤30
BLE 2M	2404	-0.52	≤30
	2440	0.07	≤30
	2478	-0.60	≤30

The test data of Wi-Fi please refer to the Appendix.





FCC §15.247(d) – 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE

Applicable Standard

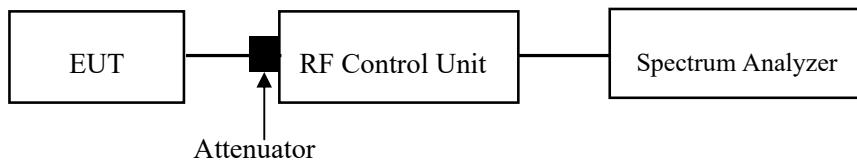
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Test Procedure

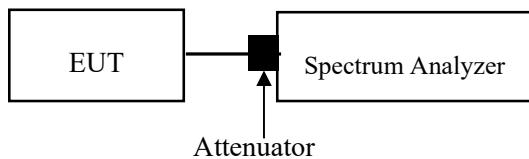
Test Method: ANSI C63.10-2013 Clause 11.11

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

For Wi-Fi Mode:



For BLE Mode:



Test Data

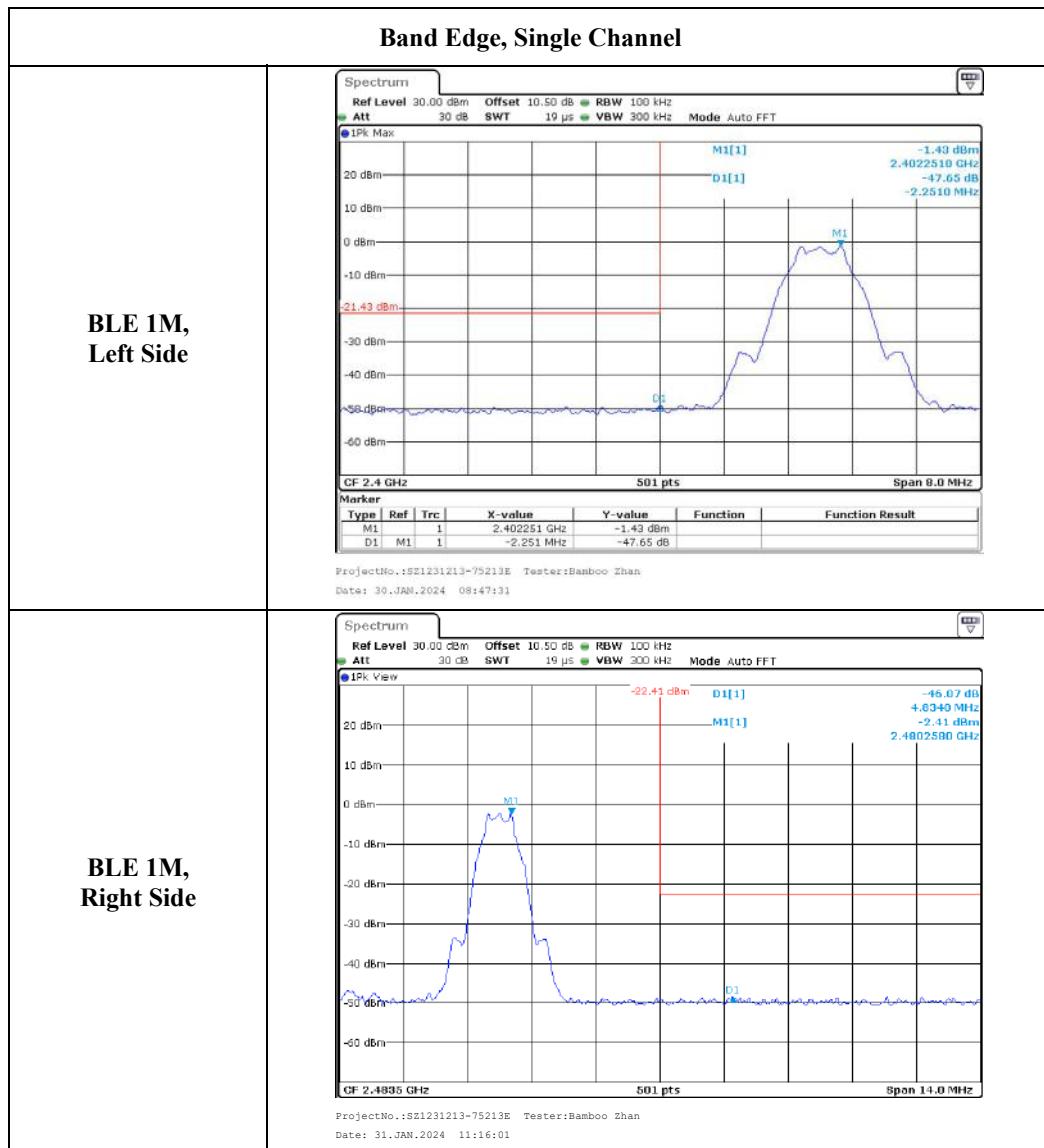
Environmental Conditions

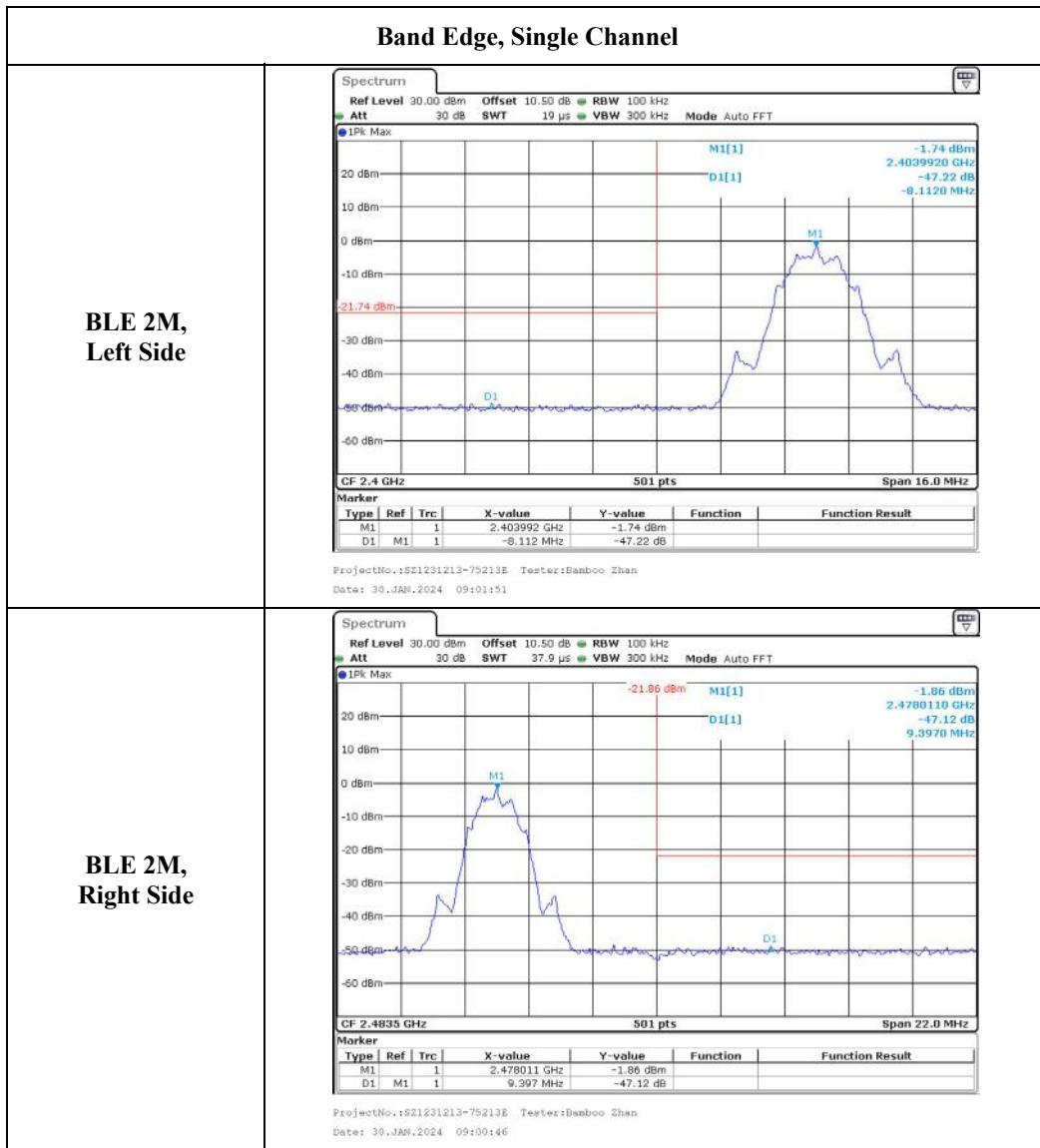
Temperature:	23.2~24.6 °C
Relative Humidity:	46~57 %
ATM Pressure:	100.1~101.1 kPa

The testing was performed by Bamboo Zhan from 2024-01-30 to 2024-01-31 and Tom Liu on 2024-03-09 and 2024-03-12.

EUT operation mode: Transmitting

Test Result: Compliant.





The test data of Wi-Fi please refer to the Appendix.

FCC §15.247(e) - POWER SPECTRAL DENSITY

Applicable Standard

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

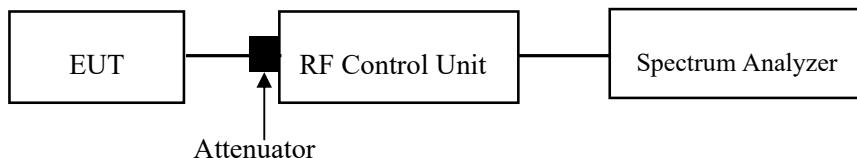
Test Procedure

Test Method: ANSI C63.10-2013 Clause 11.10.2

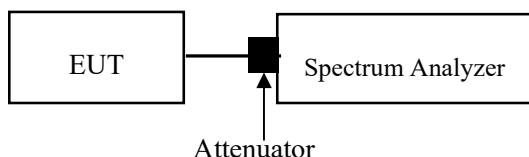
Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.

1. Set the RBW to: $3\text{kHz} \leq \text{RBW} \leq 100\text{ kHz}$.
2. Set the VBW $\geq 3 \times \text{RBW}$.
3. Set the span to 1.5 times the DTS bandwidth.
4. Detector = peak.
5. Sweep time = auto couple.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.
8. Use the peak marker function to determine the maximum amplitude level within the RBW.
9. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

For Wi-Fi Mode:



For BLE Mode:



Test Data

Environmental Conditions

Temperature:	23.2~24.6 °C
Relative Humidity:	46~57 %
ATM Pressure:	100.1~101.0 kPa

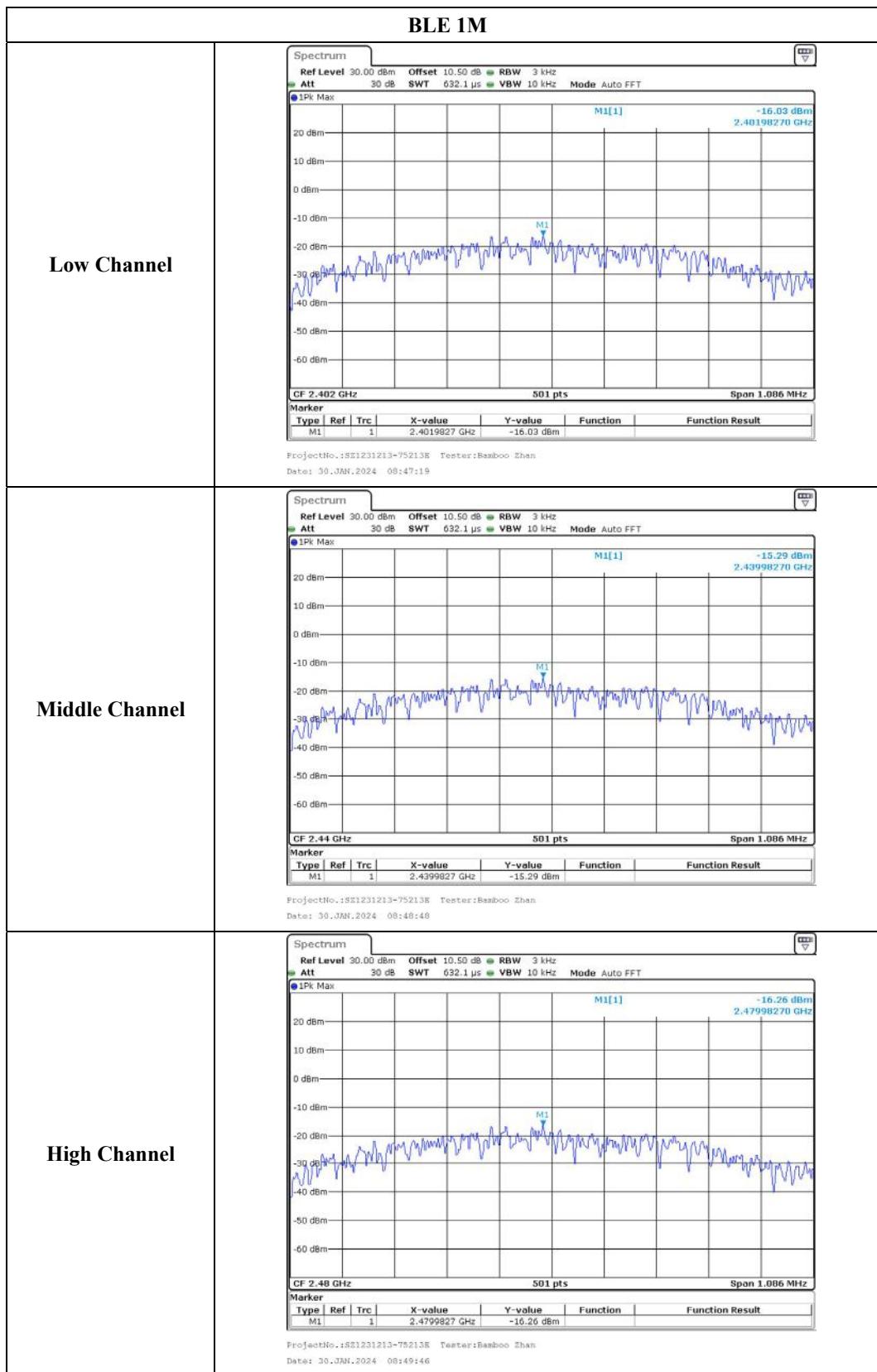
The testing was performed by Bamboo Zhan on 2024-01-30 and Tom Liu on 2024-03-09 and 2024-03-12.

EUT operation mode: Transmitting

Test Result: Compliant.

Test Modes	Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)
BLE 1M	2402	-16.03	≤8.00
	2440	-15.29	≤8.00
	2480	-16.26	≤8.00
BLE 2M	2404	-18.18	≤8.00
	2440	-17.49	≤8.00
	2478	-18.21	≤8.00

The test data of Wi-Fi please refer to the Appendix.





EUT PHOTOGRAPHS

Please refer to the attachment SZ1231213-75213E-RF External photo and SZ1231213-75213E-RF Internal photo.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment SZ1231213-75213E-RF Test Setup photo.

APPENDIX

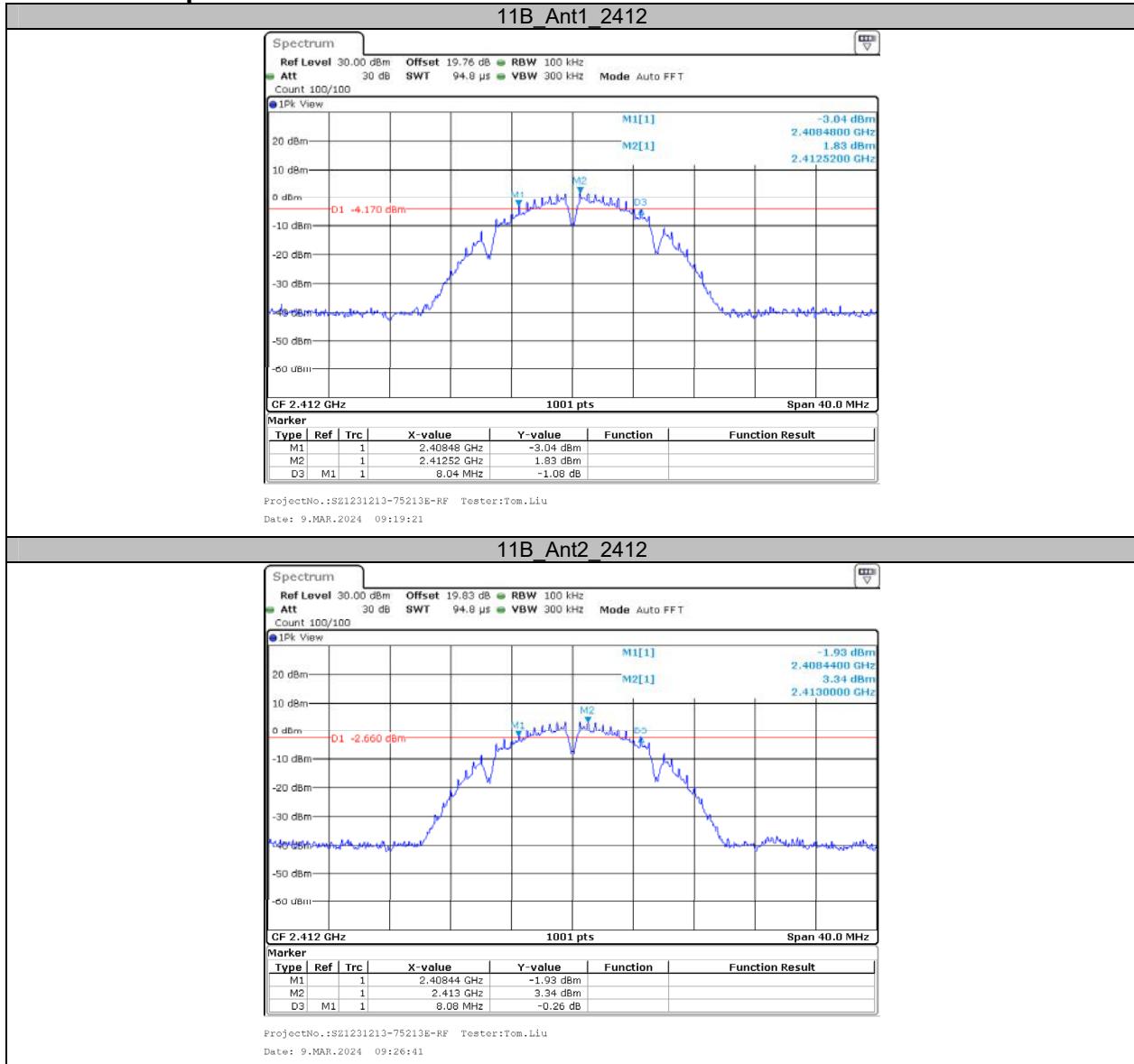
Appendix A: DTS Bandwidth

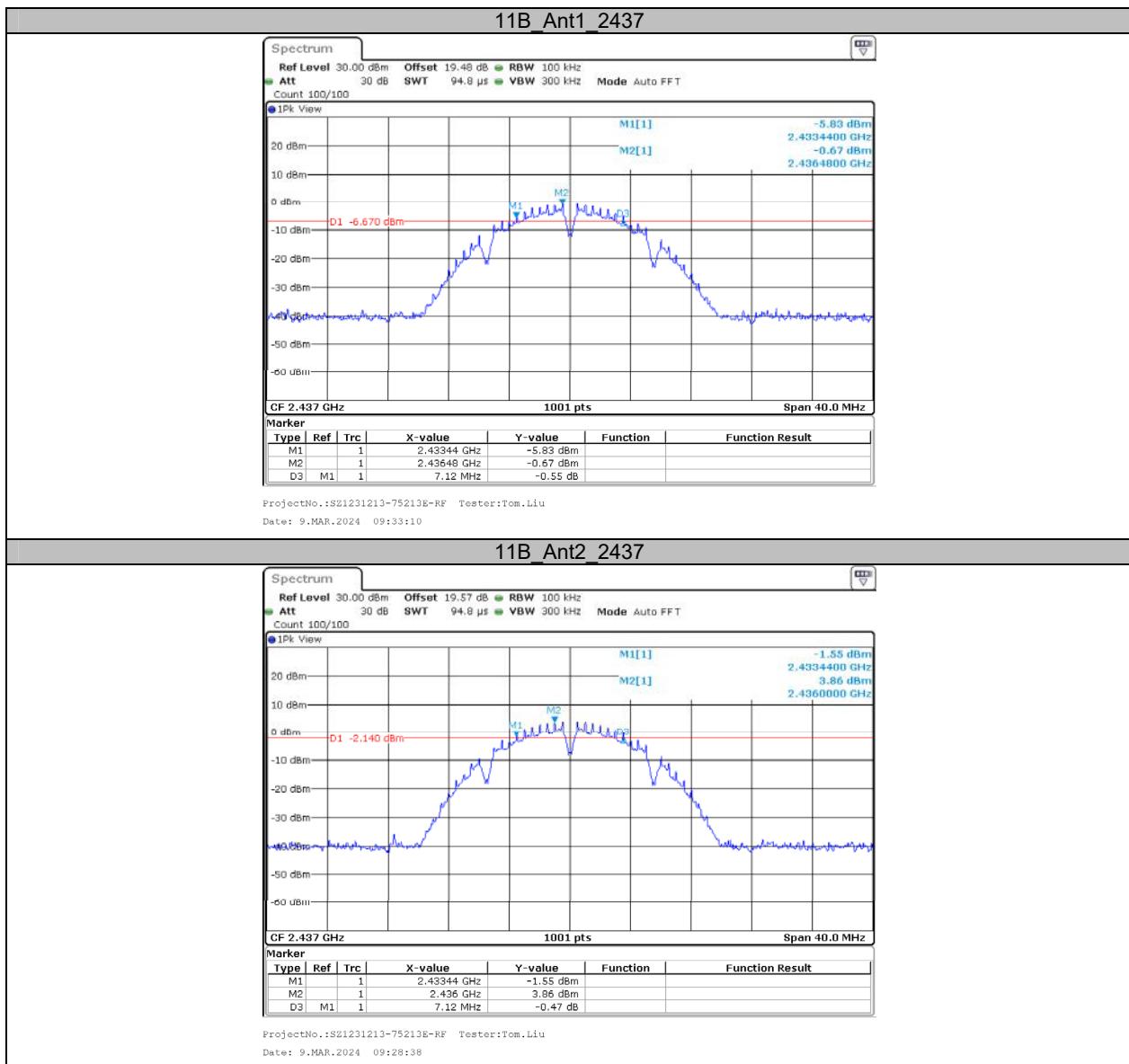
Test Result

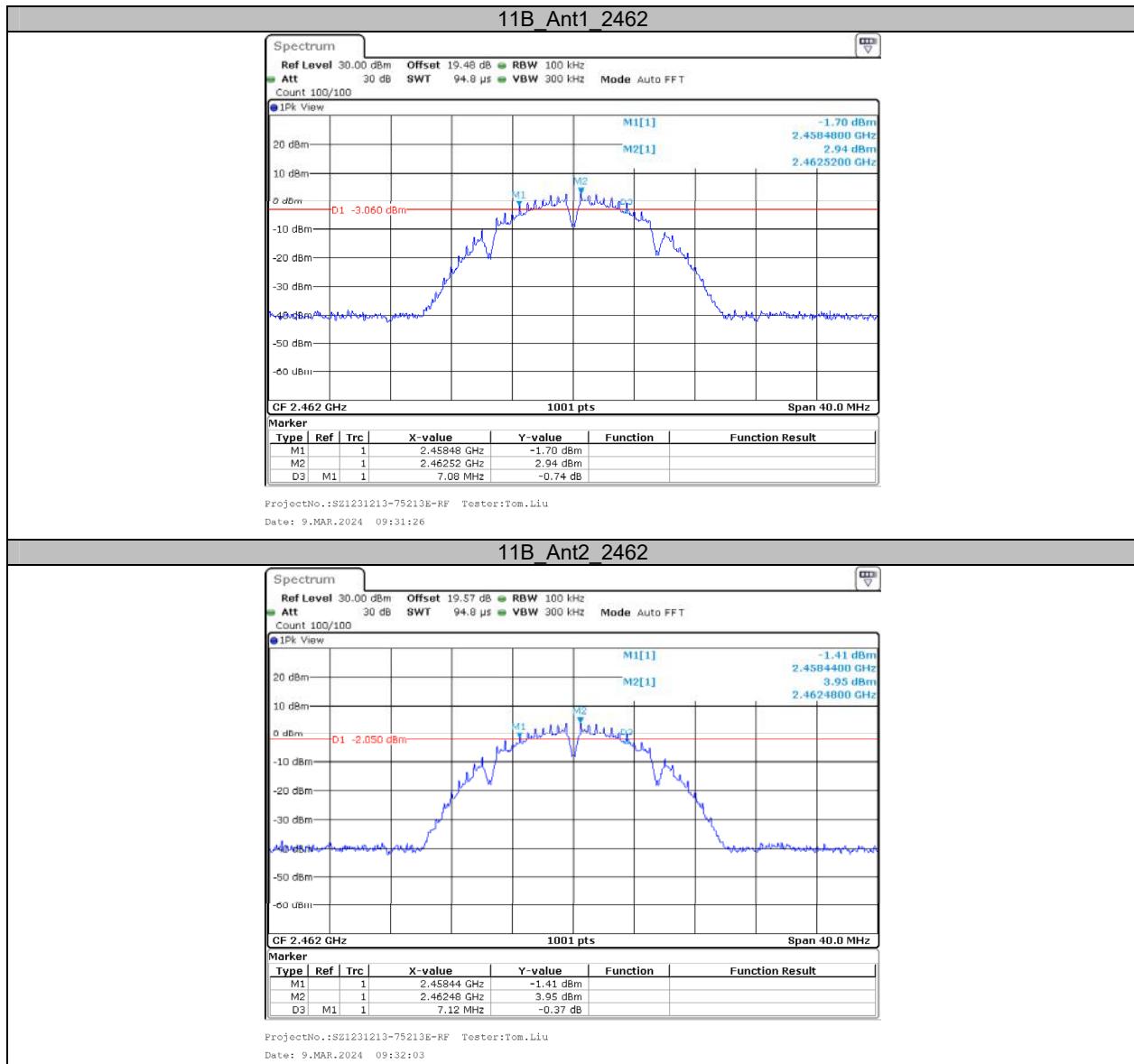
Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.04	2408.48	2416.52	0.5	PASS
	Ant2	2412	8.08	2408.44	2416.52	0.5	PASS
	Ant1	2437	7.12	2433.44	2440.56	0.5	PASS
	Ant2	2437	7.12	2433.44	2440.56	0.5	PASS
	Ant1	2462	7.08	2458.48	2465.56	0.5	PASS
	Ant2	2462	7.12	2458.44	2465.56	0.5	PASS
11G	Ant1	2412	16.52	2403.80	2420.32	0.5	PASS
	Ant2	2412	16.56	2403.72	2420.28	0.5	PASS
	Ant1	2437	16.56	2428.72	2445.28	0.5	PASS
	Ant2	2437	16.56	2428.72	2445.28	0.5	PASS
	Ant1	2462	16.60	2453.72	2470.32	0.5	PASS
	Ant2	2462	16.56	2453.72	2470.28	0.5	PASS
11N20MIMO	Ant1	2412	17.72	2403.20	2420.92	0.5	PASS
	Ant2	2412	17.84	2403.08	2420.92	0.5	PASS
	Ant1	2437	17.84	2428.08	2445.92	0.5	PASS
	Ant2	2437	17.76	2428.12	2445.88	0.5	PASS
	Ant1	2462	17.84	2453.08	2470.92	0.5	PASS
	Ant2	2462	17.80	2453.12	2470.92	0.5	PASS
11N40MIMO	Ant1	2422	35.68	2403.84	2439.52	0.5	PASS
	Ant2	2422	36.40	2403.84	2440.24	0.5	PASS
	Ant1	2437	36.08	2418.84	2454.92	0.5	PASS
	Ant2	2437	36.32	2418.84	2455.16	0.5	PASS
	Ant1	2452	36.48	2433.84	2470.32	0.5	PASS
	Ant2	2452	36.32	2433.84	2470.16	0.5	PASS

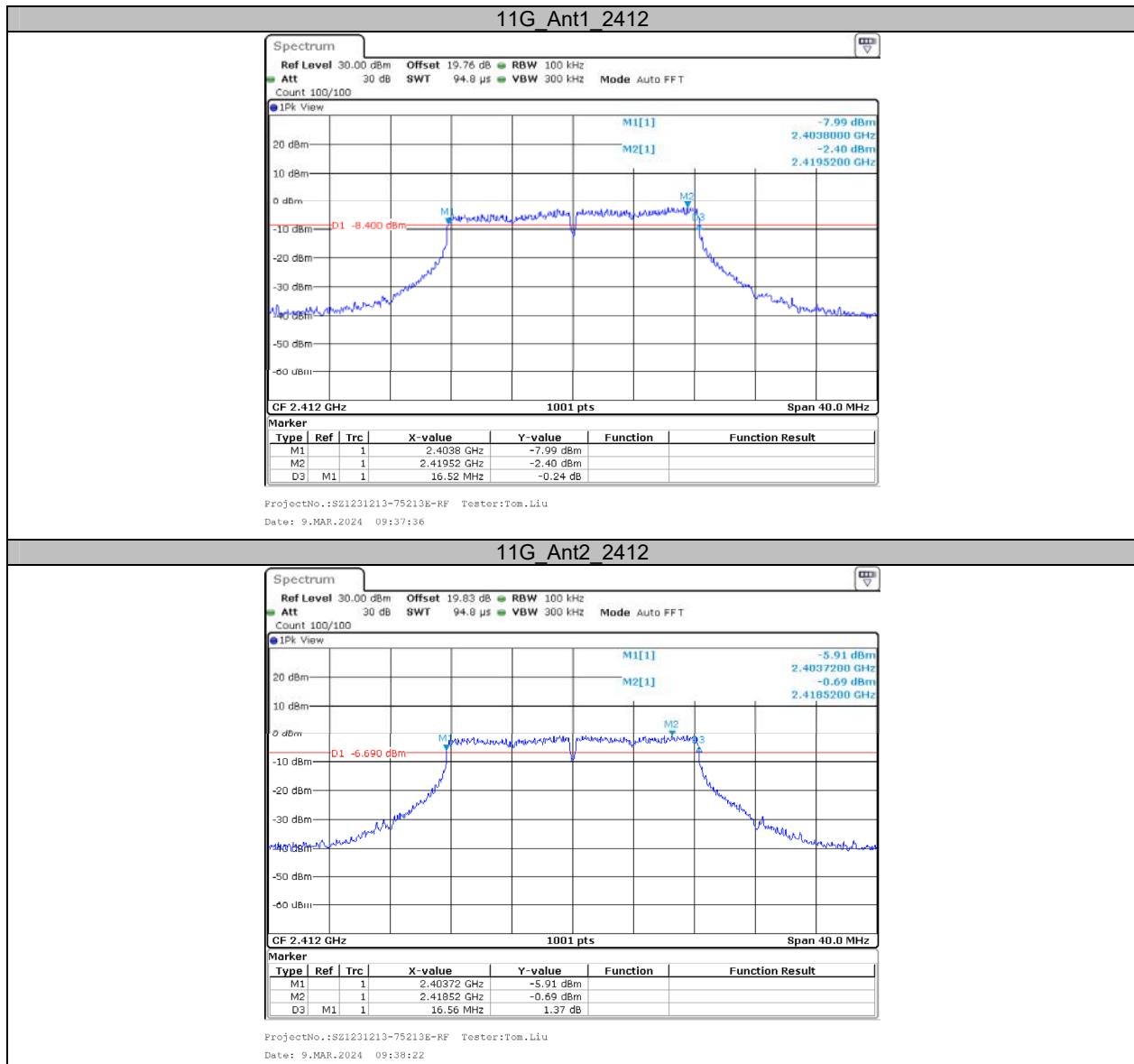
Test Mode	Antenna	Frequency [MHz]	Ru Size	Ru Index	DTS BW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11AX20MIMO	Ant1	2412	242Tone	RU61	19.08	2402.52	2421.60	0.5	PASS
	Ant2	2412	242Tone	RU61	19.20	2402.40	2421.60	0.5	PASS
	Ant1	2437	242Tone	RU61	19.16	2427.40	2446.56	0.5	PASS
	Ant2	2437	242Tone	RU61	19.20	2427.44	2446.64	0.5	PASS
	Ant1	2462	242Tone	RU61	19.16	2452.44	2471.60	0.5	PASS
	Ant2	2462	242Tone	RU61	19.16	2452.44	2471.60	0.5	PASS
11AX40MIMO	Ant1	2422	484Tone	RU65	37.52	2403.04	2440.56	0.5	PASS
	Ant2	2422	484Tone	RU65	38.00	2403.04	2441.04	0.5	PASS
	Ant1	2437	484Tone	RU65	38.08	2417.96	2456.04	0.5	PASS
	Ant2	2437	484Tone	RU65	37.92	2418.04	2455.96	0.5	PASS
	Ant1	2452	484Tone	RU65	38.16	2432.96	2471.12	0.5	PASS
	Ant2	2452	484Tone	RU65	38.08	2432.96	2471.04	0.5	PASS

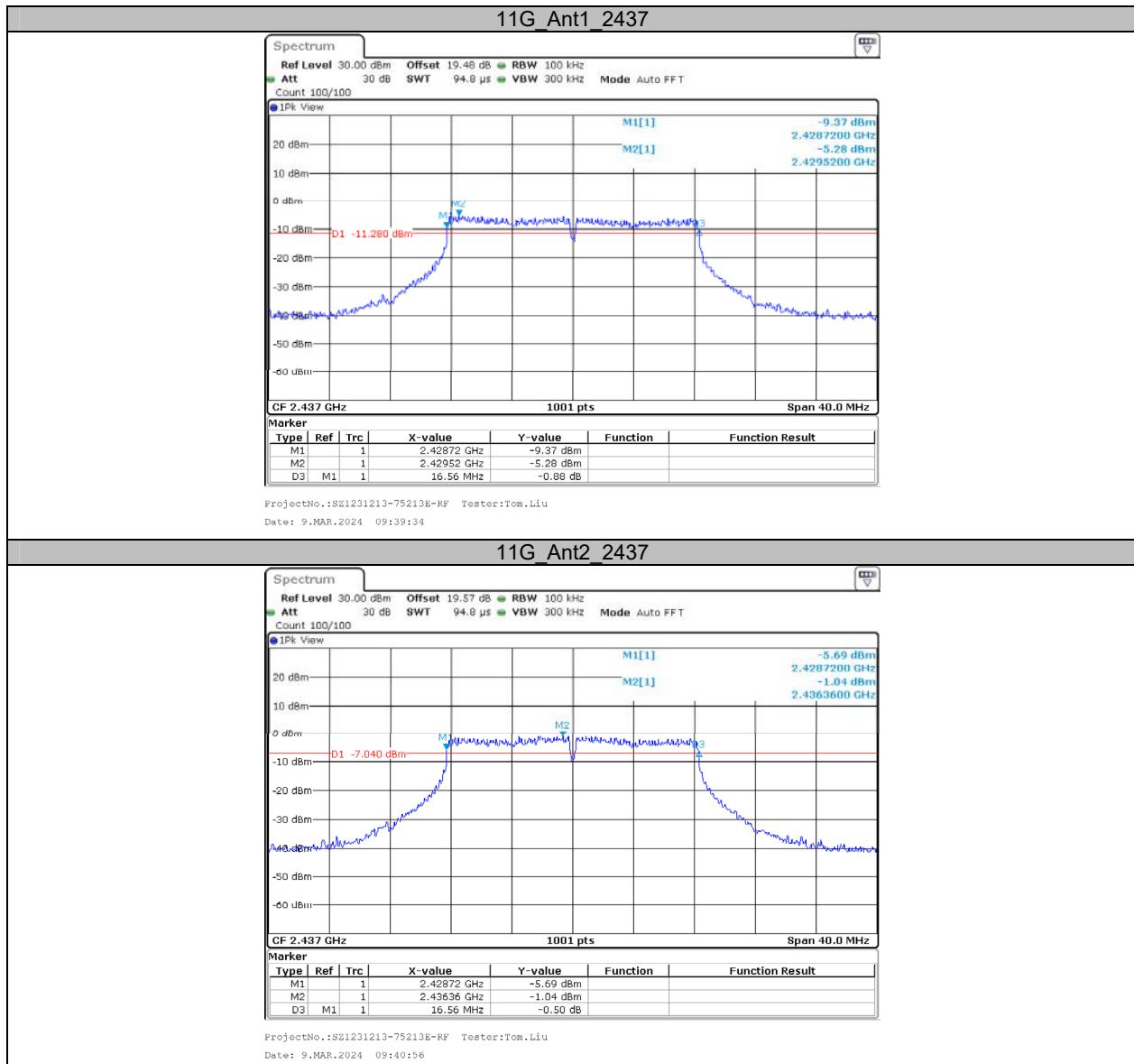
Test Graphs

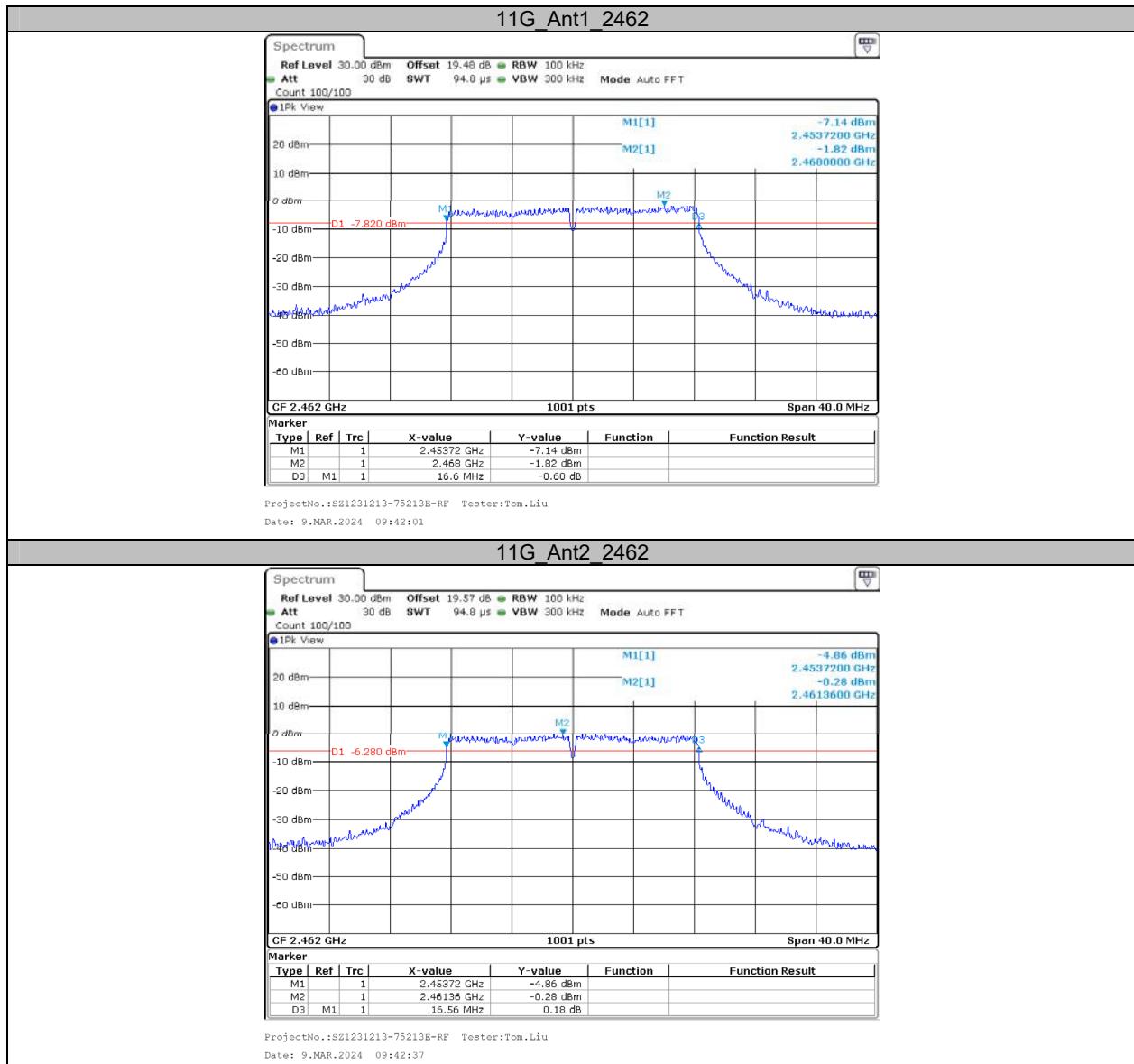


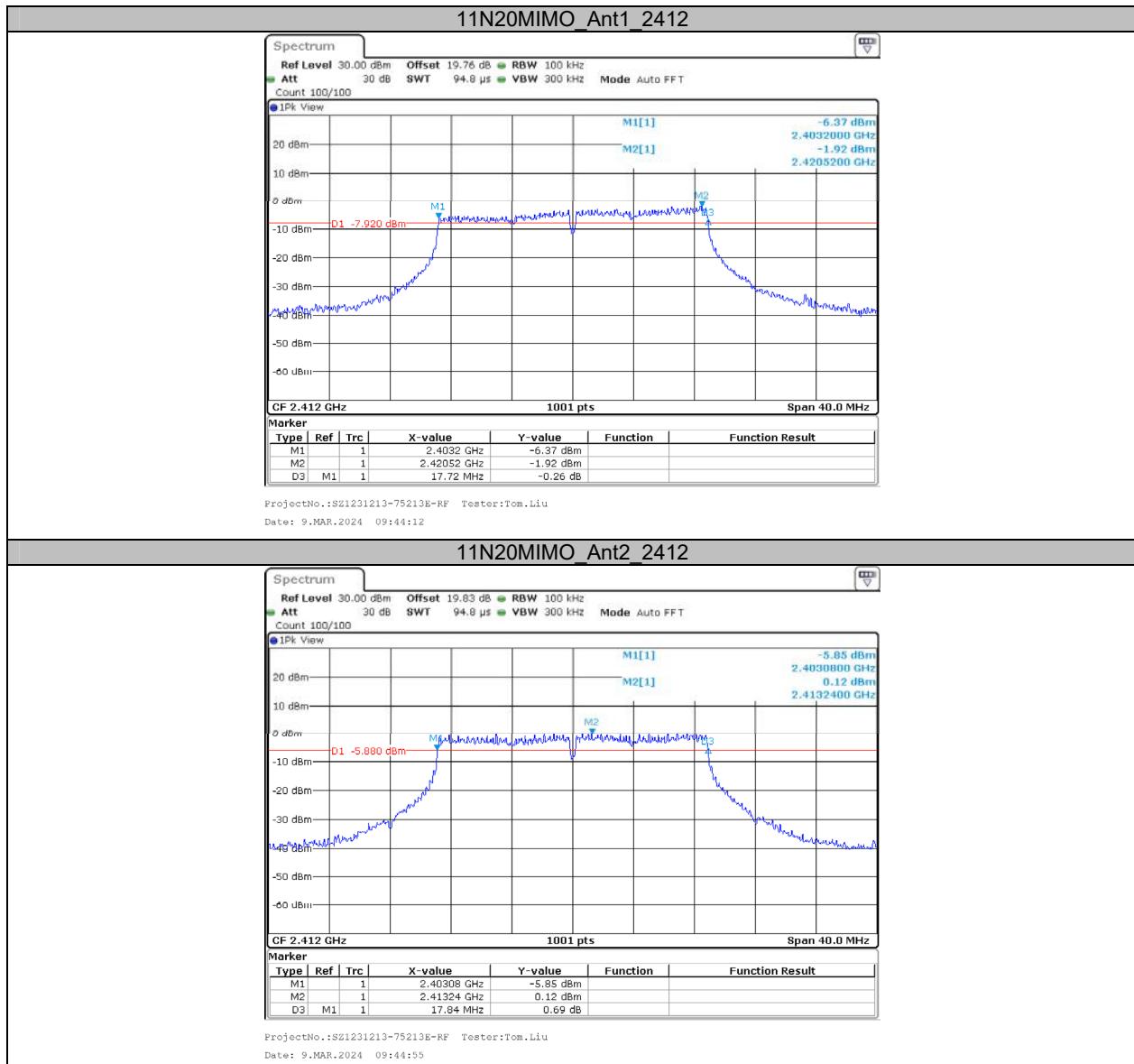


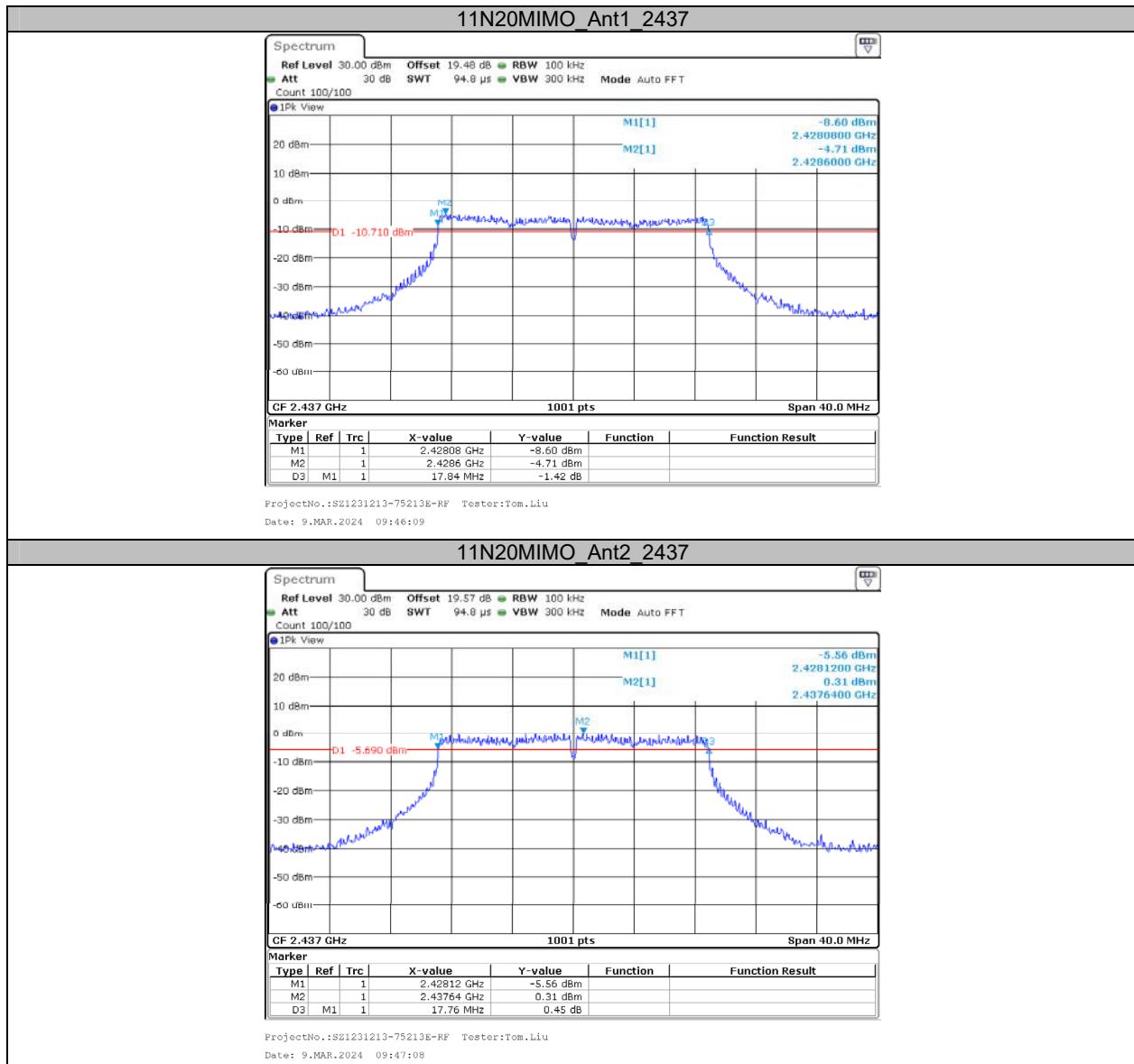


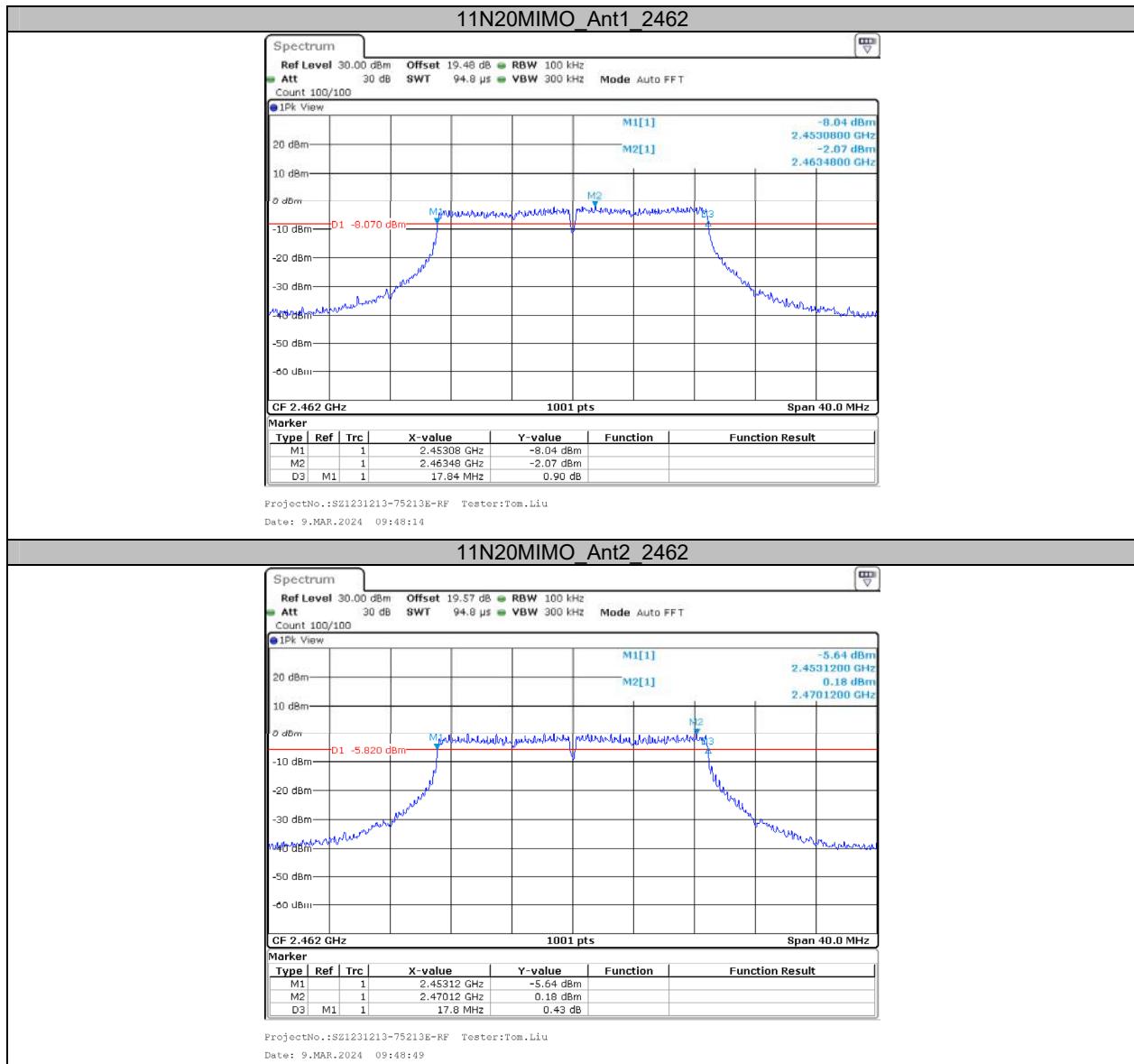


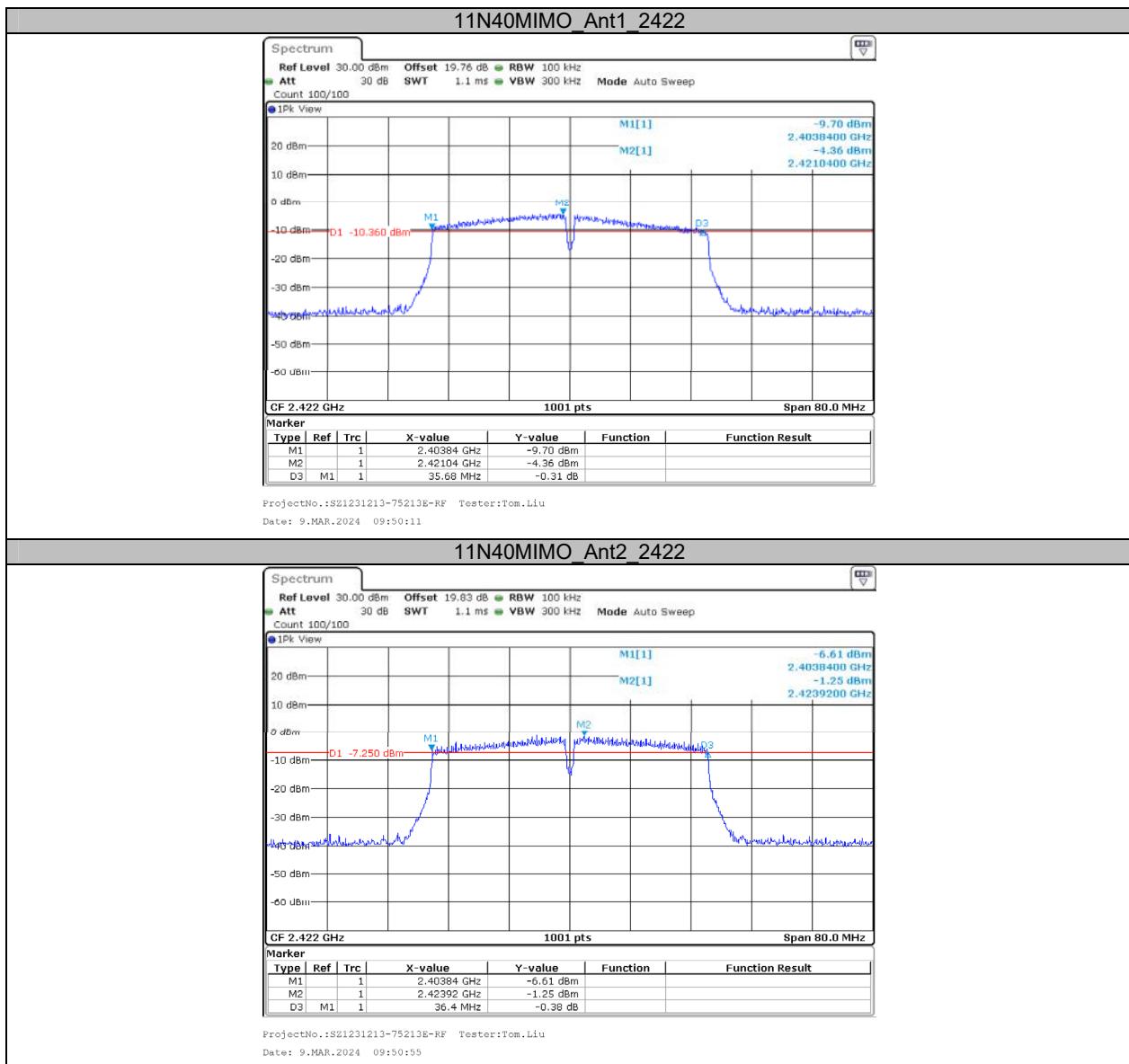


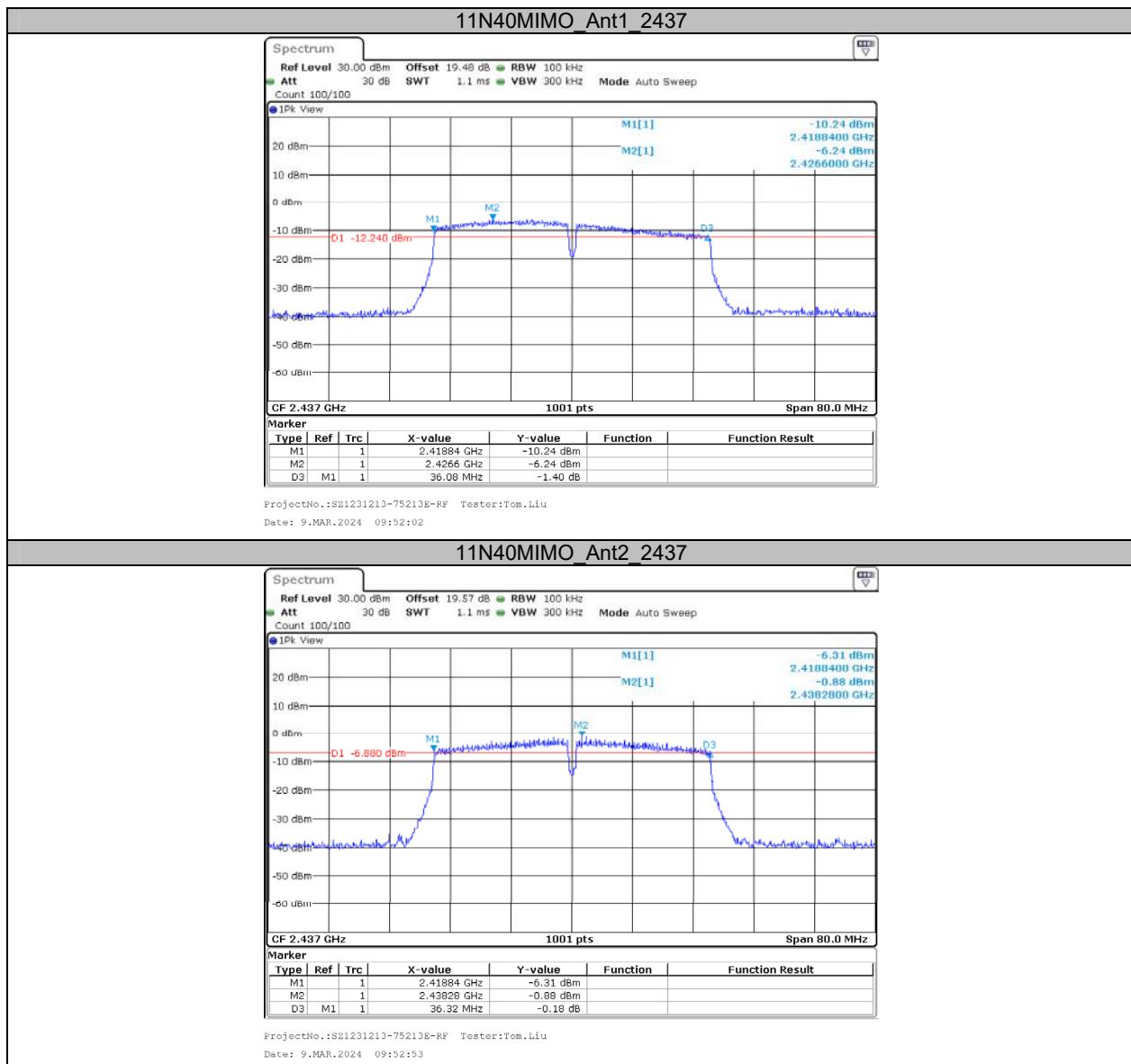


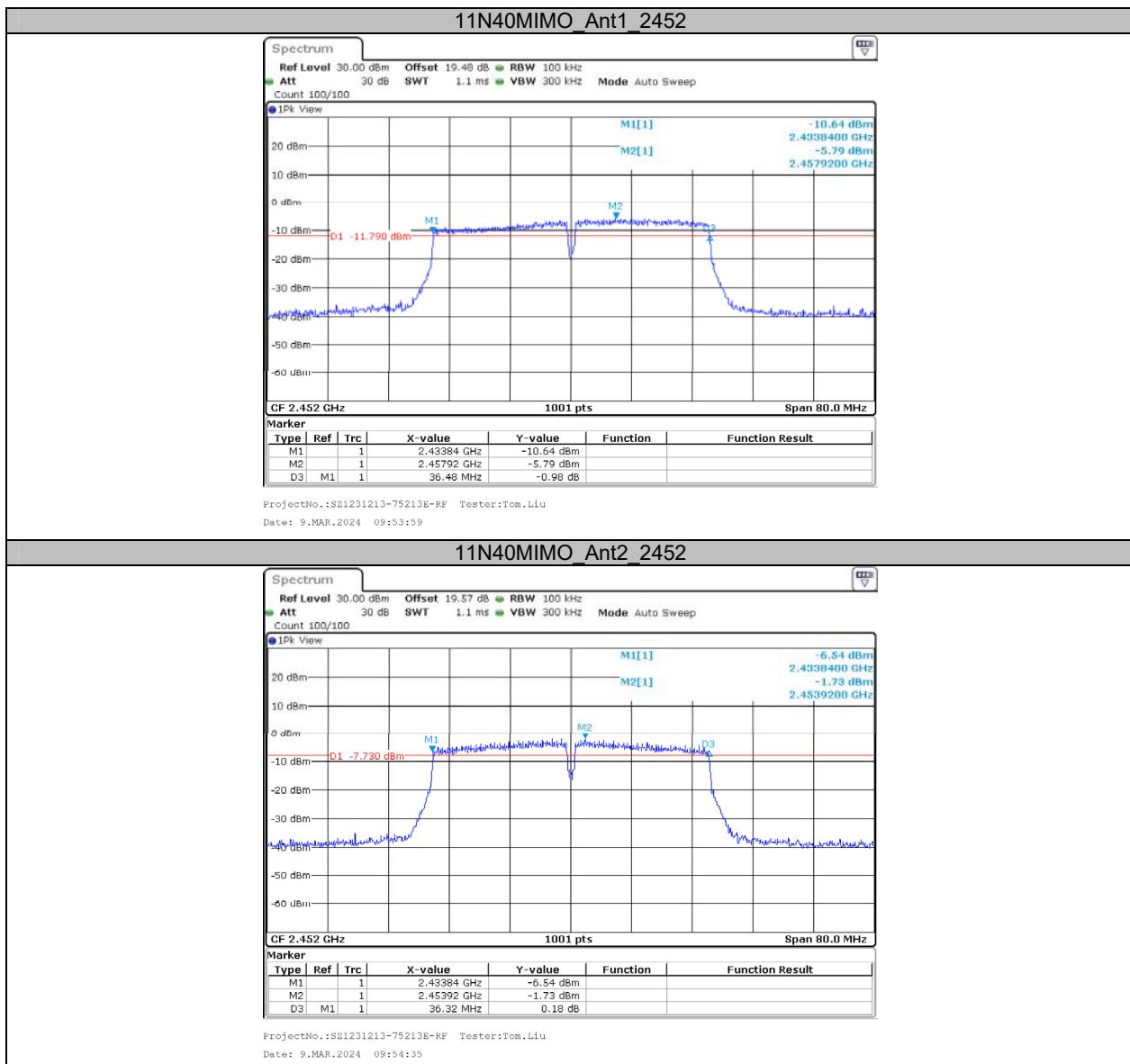


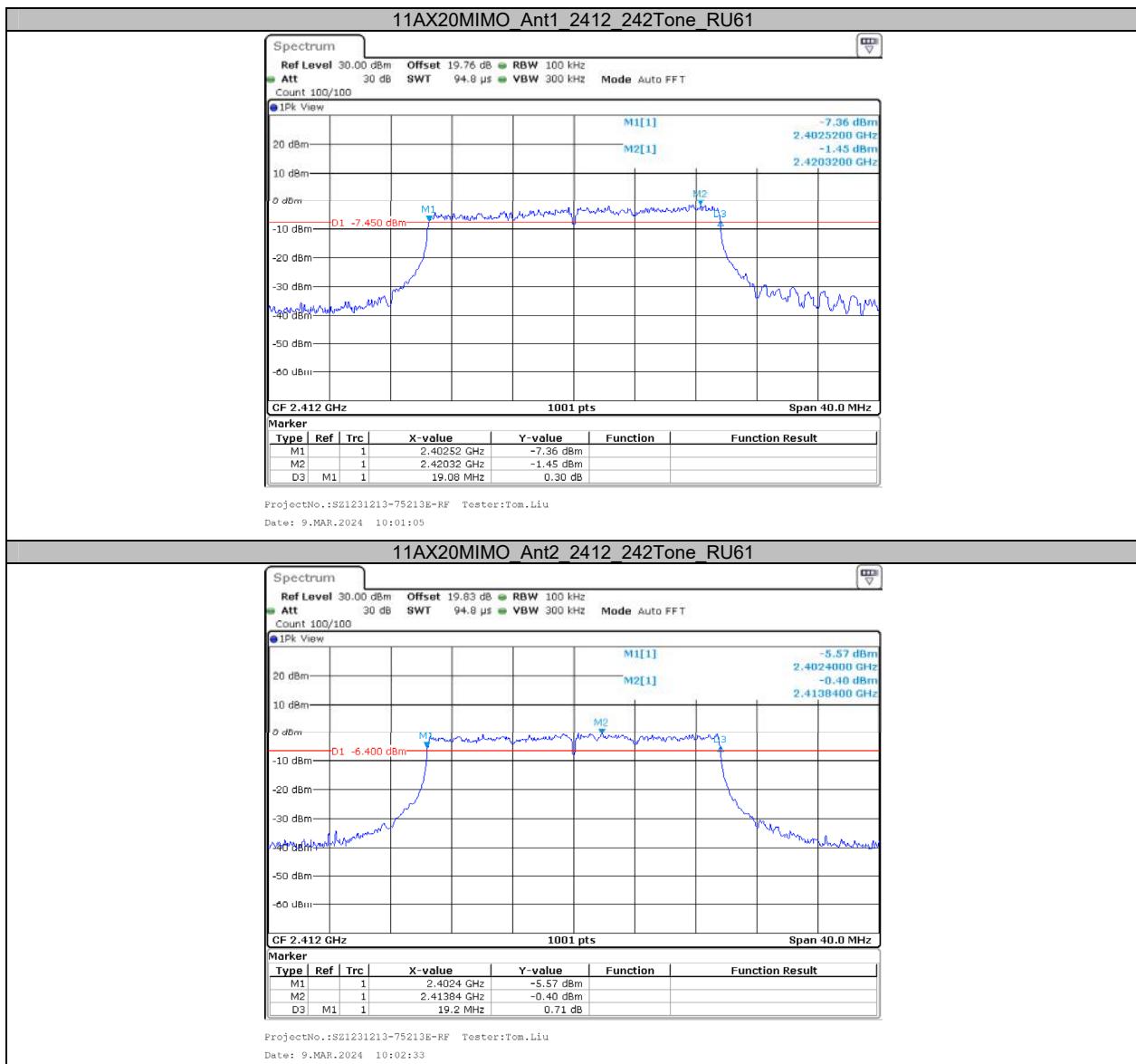


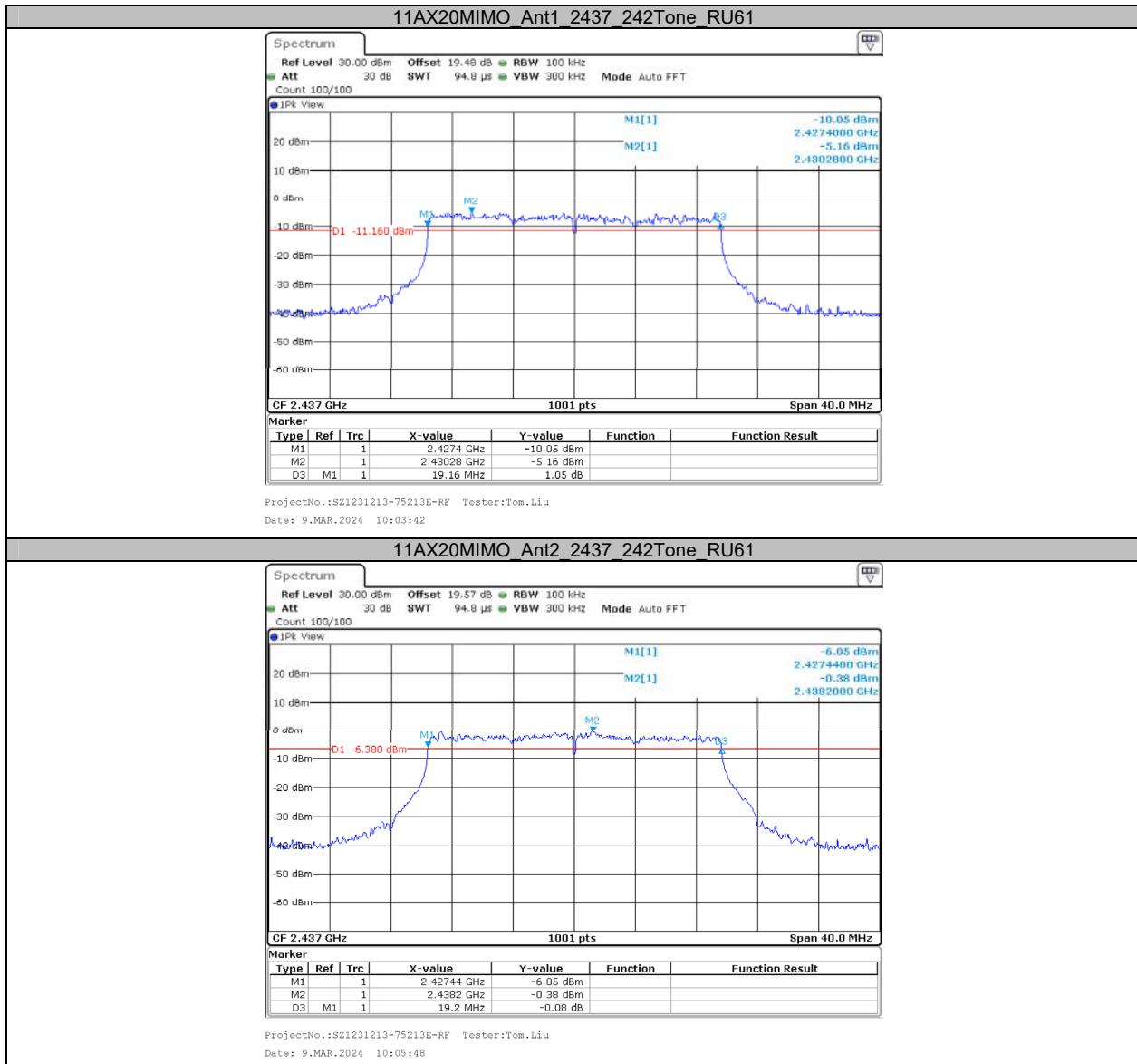


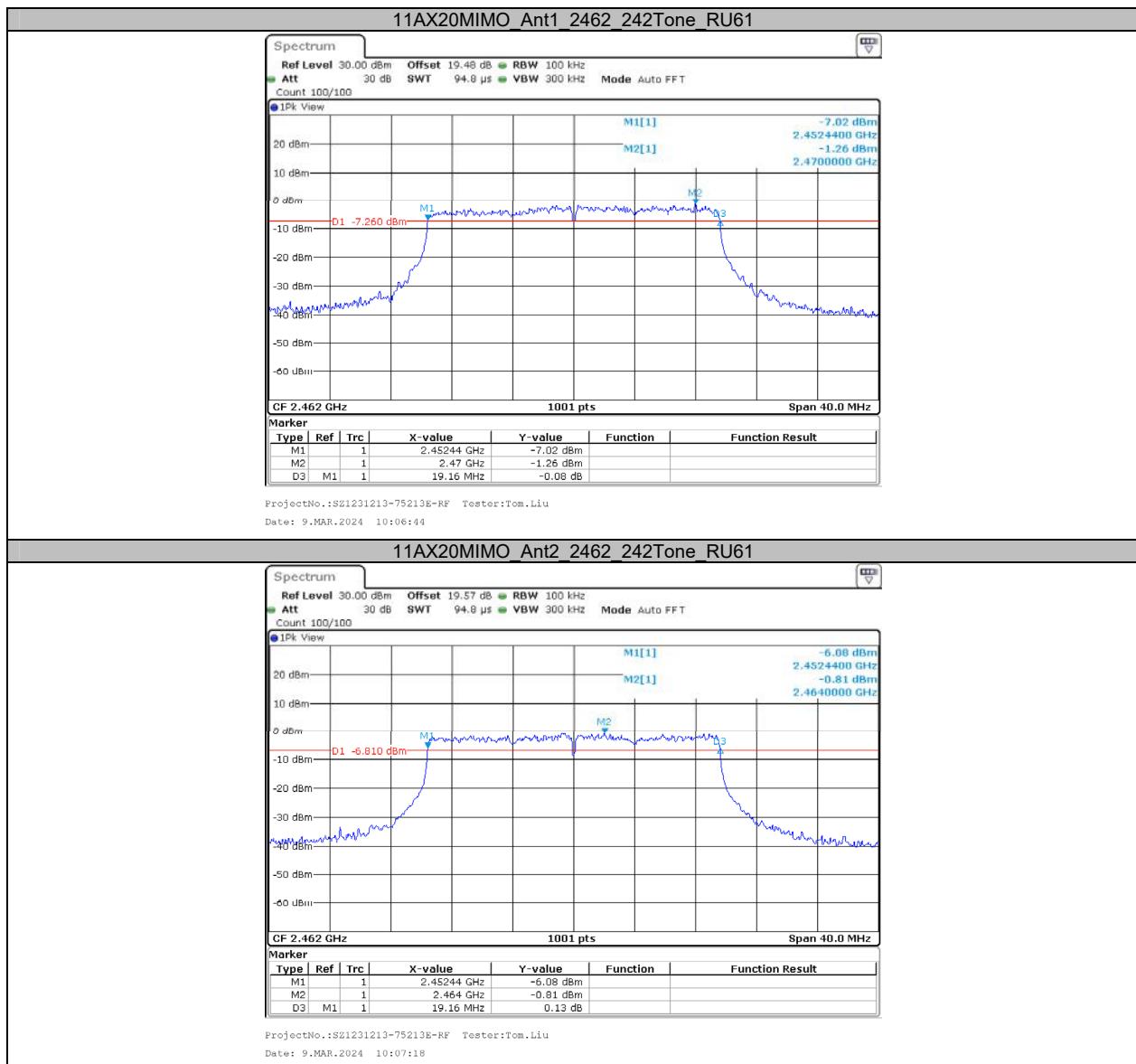


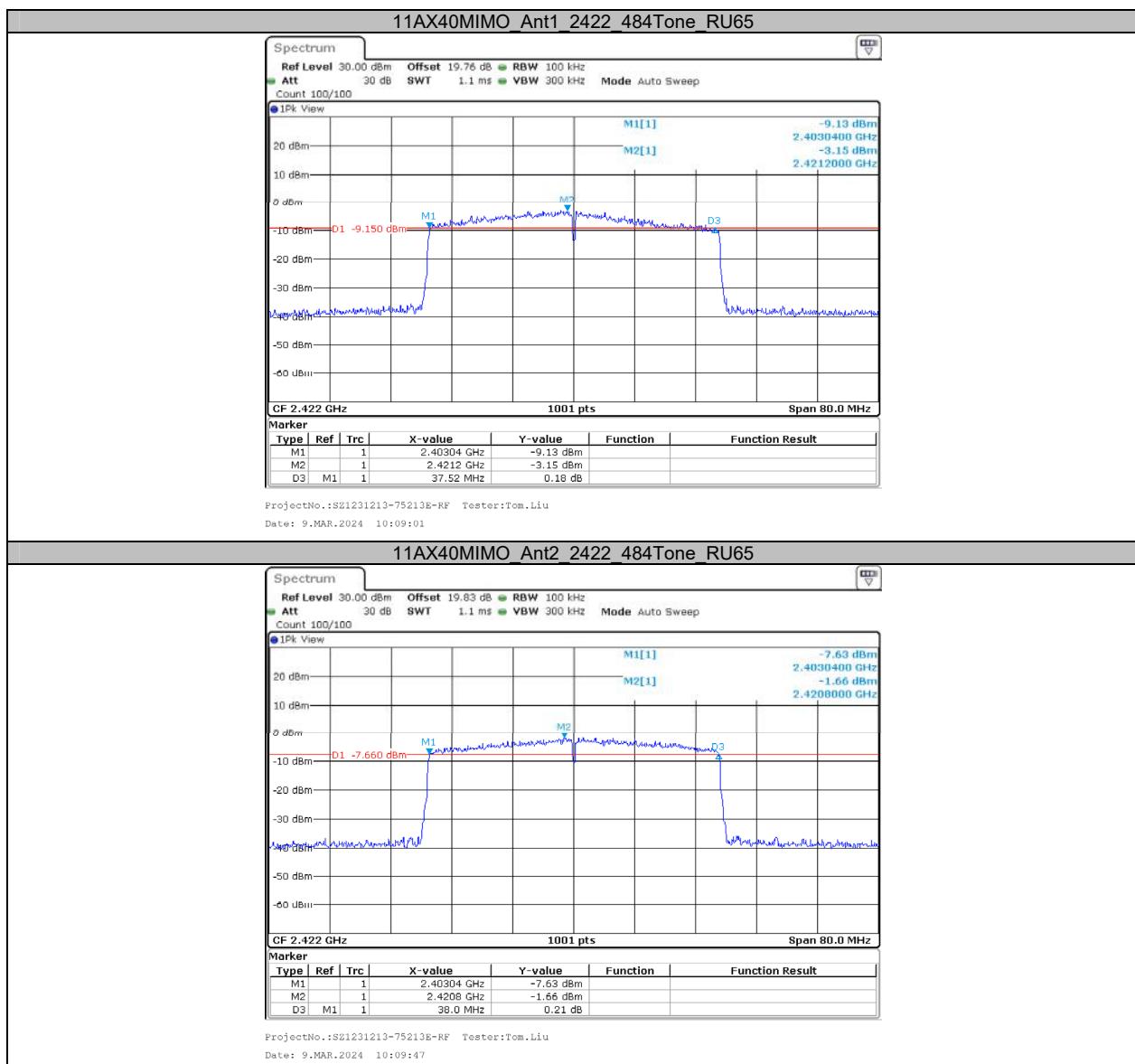


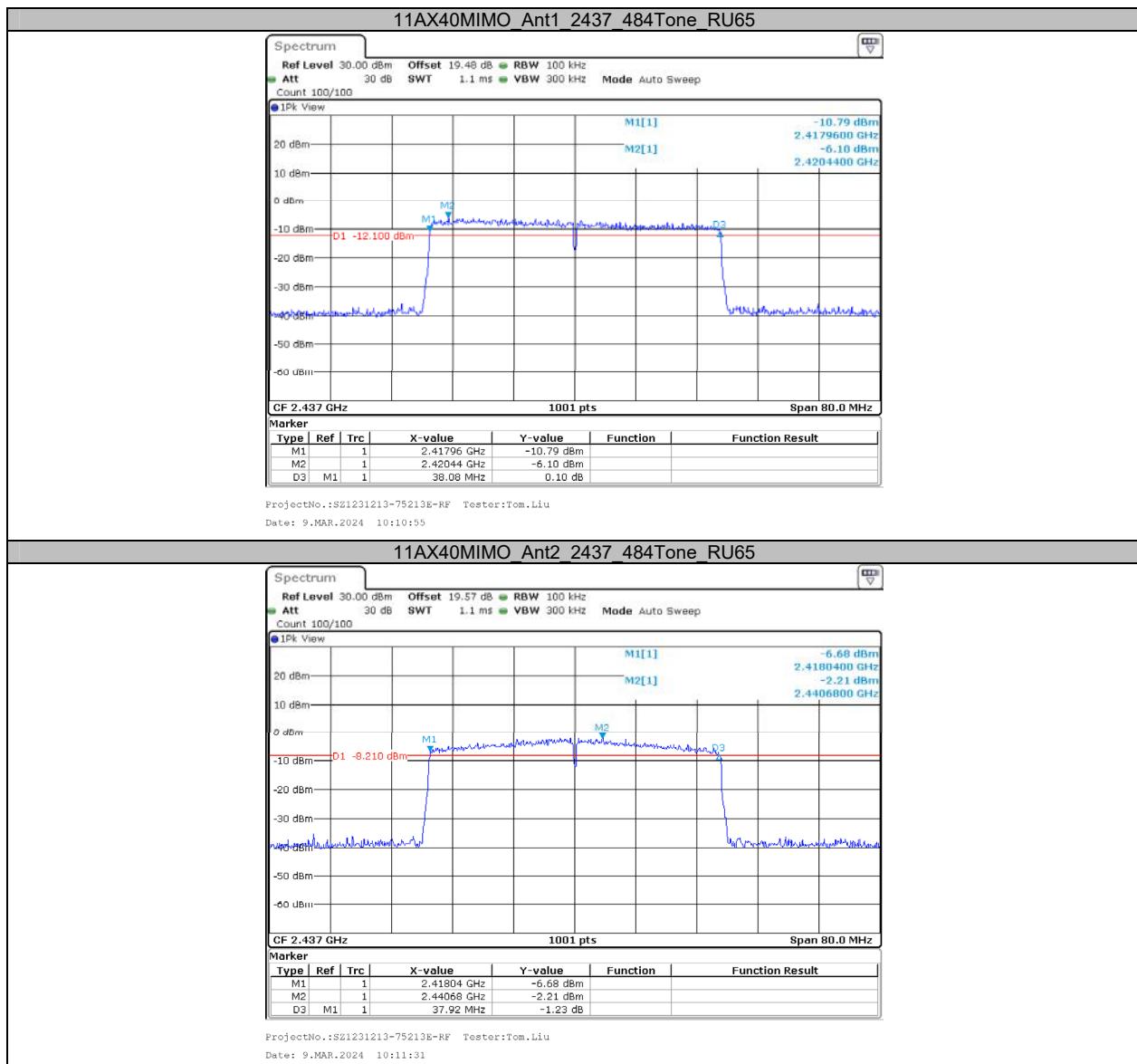


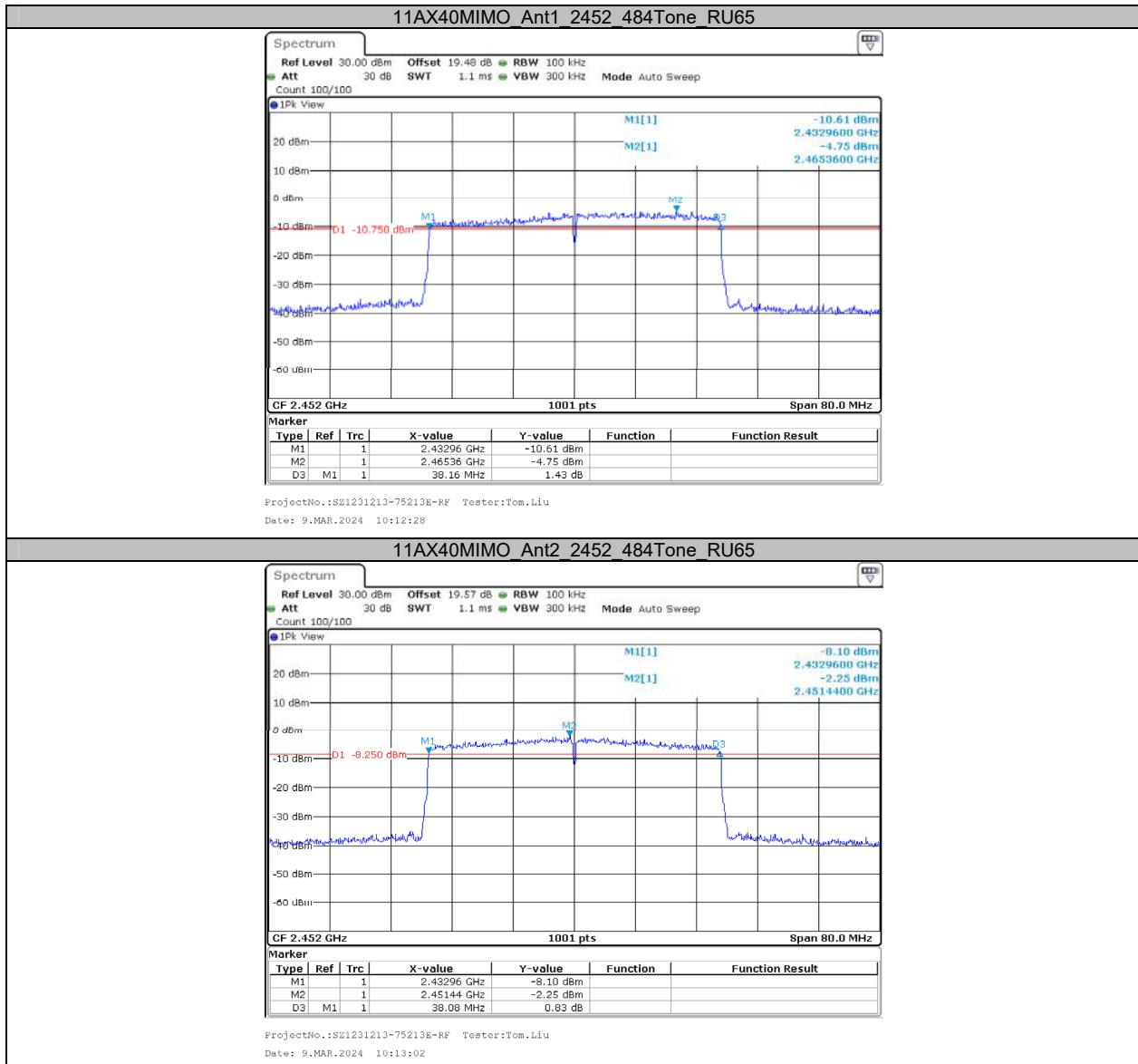












Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.867	2405.7662	2418.6334	---	---
	Ant2	2412	13.107	2405.5265	2418.6334	---	---
	Ant1	2437	13.427	2430.2468	2443.6733	---	---
	Ant2	2437	12.987	2430.5265	2443.5135	---	---
	Ant1	2462	12.787	2455.7263	2468.5135	---	---
	Ant2	2462	13.027	2455.5265	2468.5534	---	---
11G	Ant1	2412	17.942	2403.2887	2421.2308	---	---
	Ant2	2412	17.902	2403.1688	2421.0709	---	---
	Ant1	2437	18.102	2427.8092	2445.9111	---	---
	Ant2	2437	17.622	2428.2088	2445.8312	---	---
	Ant1	2462	17.742	2453.2088	2470.9510	---	---
	Ant2	2462	17.742	2453.1688	2470.9111	---	---
11N20MIMO	Ant1	2412	18.941	2402.8092	2421.7502	---	---
	Ant2	2412	18.342	2402.9291	2421.2707	---	---
	Ant1	2437	19.181	2427.3297	2446.5105	---	---
	Ant2	2437	18.222	2427.8891	2446.1109	---	---
	Ant1	2462	18.741	2452.6893	2471.4306	---	---
	Ant2	2462	18.262	2452.9291	2471.1908	---	---
11N40MIMO	Ant1	2422	36.364	2403.7782	2440.1419	---	---
	Ant2	2422	36.444	2403.8581	2440.3017	---	---
	Ant1	2437	36.523	2418.6184	2455.1419	---	---
	Ant2	2437	36.523	2418.7782	2455.3017	---	---
	Ant1	2452	36.923	2433.6983	2470.6214	---	---
	Ant2	2452	36.523	2433.7782	2470.3017	---	---

Test Mode	Antenna	Frequency[MHz]	Ru Size	Ru Index	DTS BW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11AX20MIMO	Ant1	2412	242Tone	RU61	19.461	2402.4096	2421.8701	---	---
	Ant2	2412	242Tone	RU61	19.461	2402.3297	2421.7902	---	---
	Ant1	2437	242Tone	RU61	19.58	2427.1698	2446.7502	---	---
	Ant2	2437	242Tone	RU61	19.381	2427.3297	2446.7103	---	---
	Ant1	2462	242Tone	RU61	19.381	2452.3696	2471.7502	---	---
	Ant2	2462	242Tone	RU61	19.5	2452.2897	2471.7902	---	---
11AX40MIMO	Ant1	2422	484Tone	RU65	37.562	2403.2188	2440.7812	---	---
	Ant2	2422	484Tone	RU65	37.722	2403.2188	2440.9411	---	---
	Ant1	2437	484Tone	RU65	38.042	2417.9790	2456.0210	---	---
	Ant2	2437	484Tone	RU65	37.802	2418.1389	2455.9411	---	---
	Ant1	2452	484Tone	RU65	37.882	2433.2188	2471.1009	---	---
	Ant2	2452	484Tone	RU65	37.962	2433.0589	2471.0210	---	---

Test Graphs

