

TEST REPORT

Applicant Name: Bytech NY Inc.
Address: 2585 West 13th Street, Brooklyn NY 11223, New York, United States
Report Number: 2601U66317E-RF-00
FCC ID: 2AHN6-MSWS139

Test Standard (s)

FCC PART 15.249

Sample Description

Product Type: Wireless Mouse
Model No.: BY-MS-WS-139-X3
Multiple Model(s) No.: BY-MS-WS-140-X3
Trade Mark: N/A
Date Received: 2026/06/24
Issue Date: 2026/08/05

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

Prepared and Checked By:

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Wing K Ji
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	2601U66317E-RF-00	Original Report	2026/08/05

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	Wireless Mouse
Test Model	BY-MS-WS-139-X3
Multiple Model(s)	BY-MS-WS-140-X3
UPC Number	805112147779, 805112147786
SKU Number	9258681, 9258682
Lot Number	BY062226
Frequency Range	2402-2479MHz
Maximum E-field strength	87.08dBuV/m@3m
Modulation Technique	GFSK
Antenna Specification [#]	2.34dBi (provided by the applicant)
Voltage Range	1 * 1.5V AA alkaline battery
Sample serial number	3OS8-3 (Assigned by BACL, Shenzhen)
Sample/EUT Status	Good condition
Adapter Information	N/A
Note: The Multiple models are electrically identical with the test model except for model name and color. Please refer to the declaration letter [#] for more detail, which was provided by manufacturer.	

Objective

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

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.209, 15.215 and 15.249 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2020, 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		52.29kHz(k=1.96, 95% level of confidence)
RF Frequency		81.235Hz(k=1.96, 95% level of confidence)
RF output power, conducted		1.57dB(k=1.96, 95% level of confidence)
Conducted Spurious Emission		2.48dB(k=1.96, 95% level of confidence)
AC Power Lines Conducted Emissions	9kHz~150 kHz	3.46dB(k=2, 95% level of confidence)
	150 kHz ~30MHz	3.72dB(k=2, 95% level of confidence)
Radiated Emissions	0.009MHz~30MHz	3.66dB(k=2, 95% level of confidence)
	30MHz~1000MHz (Horizontal)	5.10dB(k=2, 95% level of confidence)
	30MHz~1000MHz (Vertical)	6.28dB(k=2, 95% level of confidence)
	1GHz - 6GHz	6.18dB(k=2, 95% level of confidence)
	6GHz - 18GHz	6.62dB(k=2, 95% level of confidence)
	18GHz - 40GHz	6.66dB(k=2, 95% level of confidence)
Temperature		$\pm 0.4^{\circ}\text{C}$
Humidity		$\pm 2\%$
Supply voltages		DC $\pm 0.4\%$; AC $\pm 1\%$

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, test firm registration No.: 715558, the FCC Designation No. : CN5045.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing by manufacturer.

Frequency Channel List#:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	8	2446
1	2408	9	2451
2	2417	10	2456
3	2419	11	2460
4	2421	12	2468
5	2423	13	2474
6	2428	14	2478
7	2437	15	2479
EUT was tested with Channel 0, 7 and 15.			

EUT Exercise Software

“FCC test tool .exe”# exercise software was used and the power level is Default#. The software and power level was provided by the manufacturer.

Equipment Modifications

No modifications were made to the unit tested.

Support Equipment List and Details

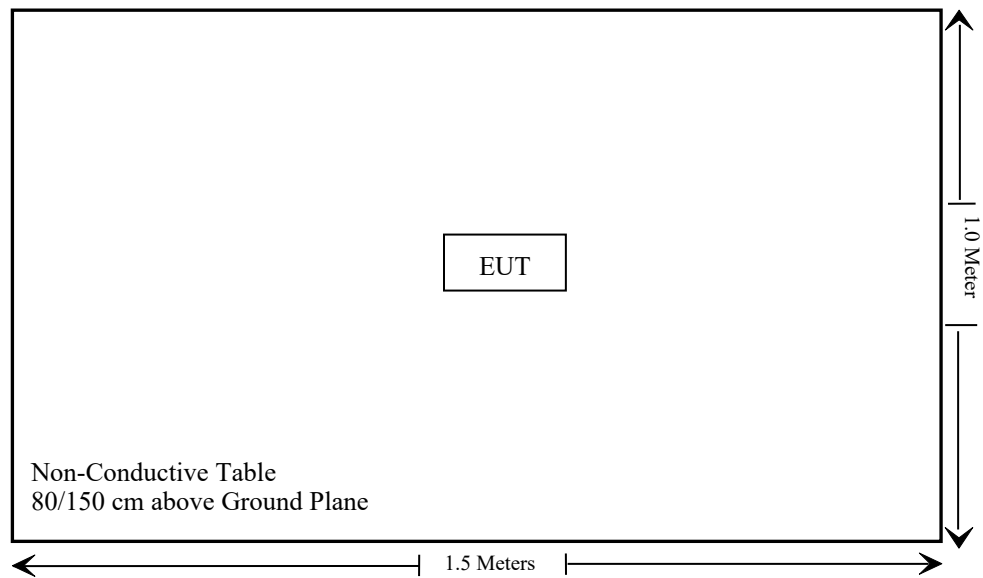
Manufacturer	Description	Model	Serial Number
/	/	/	/

Support Cable Descriptions

Cable Description	Length (m)	From/Port	To
/	/	/	/

Block Diagram of Test Setup

For Spurious emissions:



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§1.1307 (b) (3) & §2.1093	RF Exposure	Compliant
§15.203	Antenna Requirement	Compliant
§15.207(a)	AC Line Conducted Emissions	Not Applicable
15.205, §15.209, §15.249(a)(c)(d)	Radiated Emissions& Outside of Band Emission	Compliant
§15.215 (c)	20 dB Bandwidth	Compliant

Not Applicable: The device was powered by battery.

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emissions est					
Rohde & Schwarz	EMI Test Receiver	ESR3	102455	2025/09/01	2026/08/31
Sonoma instrument	Pre-amplifier	310 N	186238	2025/09/08	2026/09/07
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2023/07/20	2026/07/19
Unknown	Chamber A Cable	Cable A1	Cable A1	2025/09/08	2026/09/07
Unknown	Chamber A Cable	Cable A2	Cable A2	2025/09/08	2026/09/07
BACL	Active Loop Antenna	1313-1A	4031911	2024/05/14	2027/05/13
Unknown	Chamber A Cable	Cable A3	Cable A3	2025/09/08	2026/09/07
Unknown	Chamber A Cable	Cable A4	Cable A4	2025/09/08	2026/09/07
Audix	EMI Test software	E3	19821b(V9)	NCR	NCR
TDK	Chamber	Chamber A	2#	2023/07/12	2026/07/11
Rohde & Schwarz	Spectrum Analyzer	FSV40	101605	2025/09/01	2026/08/31
A.H.System	Preamplifier	PAM-0118P	489	2025/09/08	2026/09/07
Schwarzbeck	Horn Antenna	BBHA9120D (1201)	1143	2023/07/26	2026/07/25
Unknown	Chamber B Cable	Cable B1	Cable B1	2025/09/08	2026/09/07
Unknown	Chamber B Cable	Cable B2	Cable B2	2025/09/08	2026/09/07
Unknown	Chamber B Cable	Cable B3	Cable B3	2025/09/08	2026/09/07
JD	Filter Switch Unit	DT7220FSU	DS79906	2025/08/12	2026/08/11
JD	Multiplex Switch Test Control Set	DT7220SCU	DS79903	2025/08/12	2026/08/11
A.H.System	Pre-amplifier	PAM-1840VH	190	2025/09/08	2026/09/07
Electro-Mechanics Co	Horn Antenna	3116	2026	2025/09/18	2028/09/17
Unknown	Chamber B Cable	Cable B4	Cable B4	2025/09/17	2026/09/16
Unknown	Chamber B Cable	Cable B5	Cable B5	2025/09/17	2026/09/16
Audix	EMI Test software	E3	191218 V9(c)	NCR	NCR
TDK	Chamber	Chamber B	1#	2023/07/14	2026/07/13

* **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 §1.1307 (b) (3) & §2.1093 - RF EXPOSURE

Applicable Standard

According to FCC §2.1093 and §1.1307(b) (3), 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.

According to KDB 447498 D04 Interim General RF Exposure Guidance V01

1-mW Test Exemption:

Per § 1.1307(b)(3)(i)(A), a single RF source is exempt RF device (from the requirement to show data demonstrating compliance to RF exposure limits, as previously mentioned) if the available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption applies to all operating configurations and exposure conditions, for the frequency range 100 kHz to 100 GHz, regardless of fixed, mobile, or portable device exposure conditions. This is a standalone exemption, and it cannot be applied in conjunction with any other test exemption.

For worst case:

Mode	Frequency (MHz)	Maximum E-Field (dBuV/m@3m)	Maximum EIRP		1-mW Test Exemption
			(dBm)	(mW)	
GFSK	2402-2479	87.08	-8.12	0.154	Yes

Note: EIRP = E-Field – 95.2 @3m

Result: Compliant.

FCC§15.203 - 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 one internal antenna which was permanently attached and the antenna gain[#] is 2.34dBi, fulfill the requirement of this section. Please refer to the EUT photos.

Result: Compliant.

FCC§15.205, §15.209 & §15.249(a)(c)(d) - RADIATED EMISSIONS

Applicable Standard

As per FCC§15.249 (a), except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

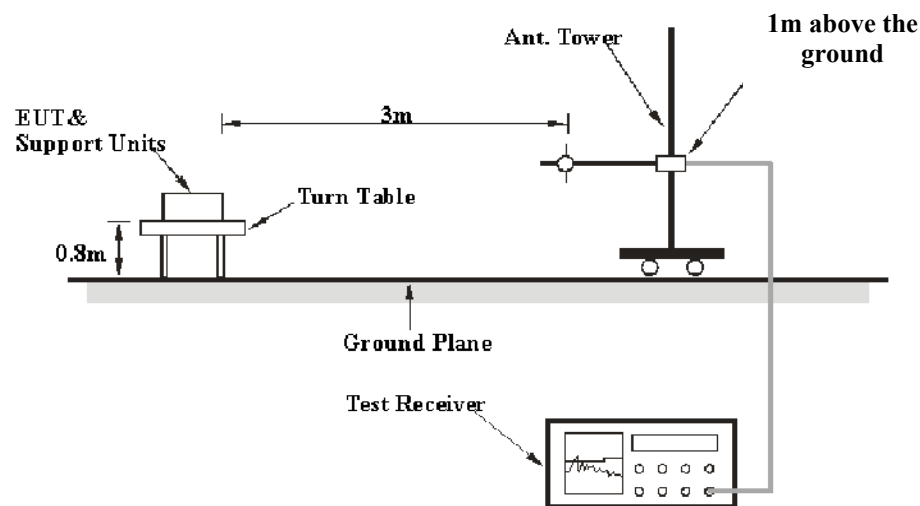
Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902–928 MHz	50	500
2400–2483.5 MHz	50	500
5725–5875 MHz	50	500
24.0–24.25 GHz	250	2500

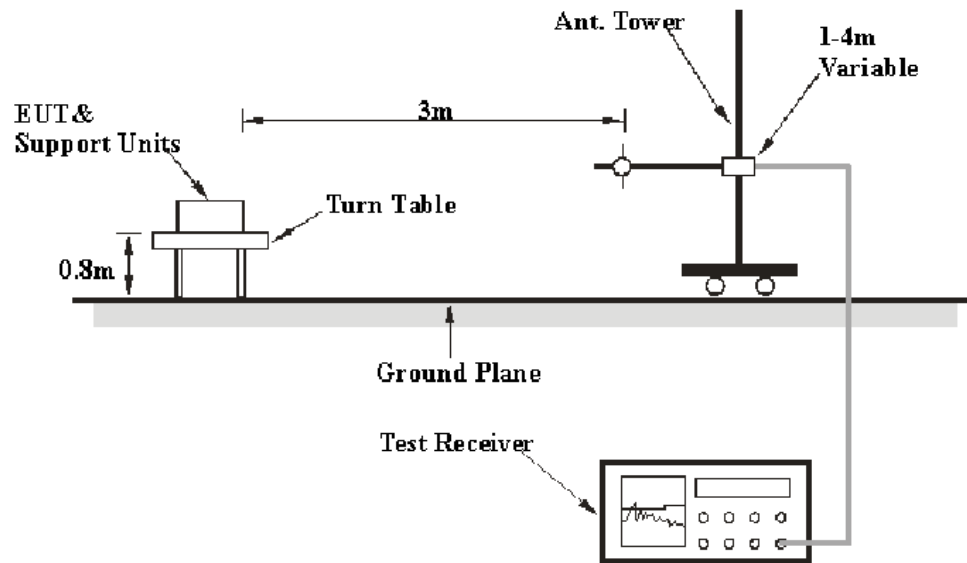
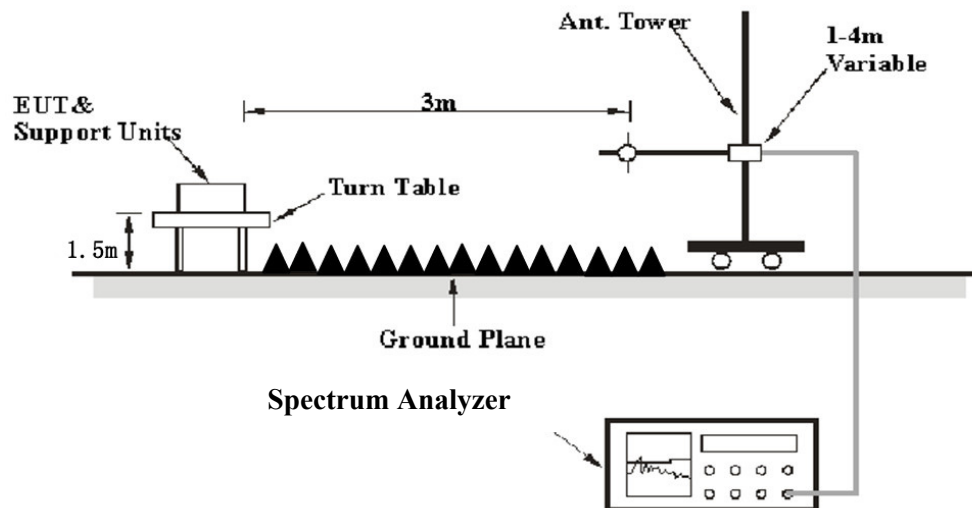
As per FCC§15.249 (c), Field strength limits are specified at a distance of 3 meters.

As per FCC§15.249 (d), Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

EUT Setup

9 kHz-30MHz:



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

The radiated emission and out of band emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2020. The specification used was the FCC 15.209/15.205 and FCC 15.249 limits.

EMI Test Receiver & Spectrum Analyzer Setup

The EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Detector	Measurement
9 kHz – 150 kHz	/	/	200 Hz	QP	QP
	300 Hz	1 kHz	/	PK	PK
150 kHz – 30 MHz	/	/	9 kHz	QP	QP
	10 kHz	30 kHz	/	PK	PK
30 MHz – 1000 MHz	/	/	120 kHz	QP	QP
	120 kHz	500 kHz	/	PK	PK
Above 1 GHz	Fundamental & Harmonics				
	1MHz	3 MHz	/	PK	PK
	Average Emission Level=Peak Emission Level+20*log(Duty cycle)				
	Band Edge & Other Emissions				
	1MHz	3 MHz	/	PK	PK
	1MHz	≥10 Hz	/	PK	Average

For Duty cycle measurement:

Use the duty cycle factor correction factor method per 15.35(c).

Duty cycle=On time/100milliseconds, On time= $N_1 \cdot L_1 + N_2 \cdot L_2 + \dots + N_{n-1} \cdot L_{n-1} + N_n \cdot L_n$,

Where N_1 is number of type 1 pulses, L_1 is length of type 1 pulse, etc.

Test Procedure

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

The EUT is set 3 meter away from the testing antenna, which is varied from 1-4 meter, and the EUT is placed on a turntable, which is 0.8 meter above ground plane for below 1GHz or 1.5 meter for above 1GHz, the table shall be rotated for 360 degrees to find out the highest emission. The receiving antenna should be changed the polarization both of horizontal and vertical.

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.

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

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:

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

Test Data

Environmental Conditions

Temperature:	23.1~23.4 °C
Relative Humidity:	52~56 %
ATM Pressure:	100.3~101.8 kPa

The testing was performed by Anson Su on 2026-07-03 for below 1GHz and Leon Guo on 2026-07-02 for above 1GHz.

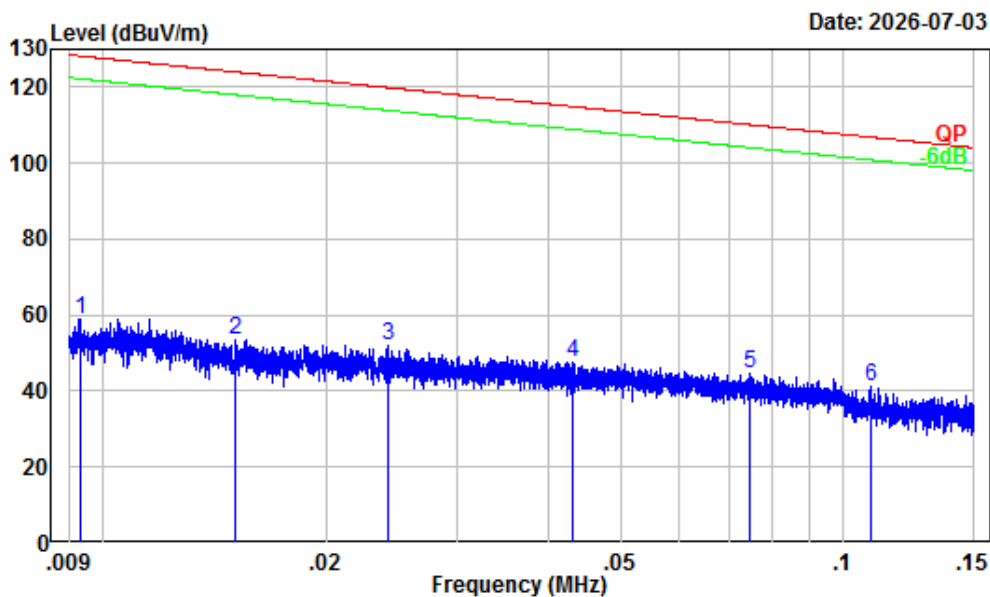
EUT operation mode: Transmitting

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

9 kHz-30MHz: (The maximum E-Field strength channel: Middle Channel was tested.)

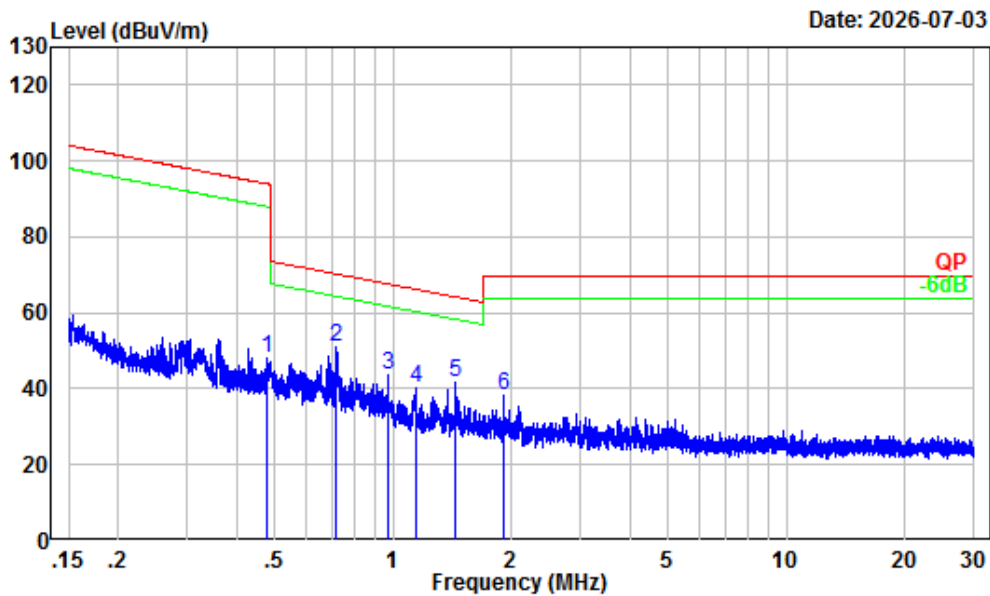
Note: When the test result of peak was less than the limit of QP/Average more than 6dB, just peak value were recorded.

Parallel (worst case)



Site : Chamber A
Condition : 3m
Project Number : 2601U66317E-RF
Test Mode : Transmitting
Detector: Peak RBW/VBW: 0.3/1kHz
Tester : Anson Su

	Freq	Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.009	32.43	26.47	58.90	128.21	-69.31	Peak
2	0.015	31.33	22.22	53.55	124.03	-70.48	Peak
3	0.024	29.58	22.30	51.88	119.88	-68.00	Peak
4	0.043	27.11	20.49	47.60	114.89	-67.29	Peak
5	0.075	23.94	20.85	44.79	110.15	-65.36	Peak
6	0.109	21.46	19.52	40.98	106.84	-65.86	Peak

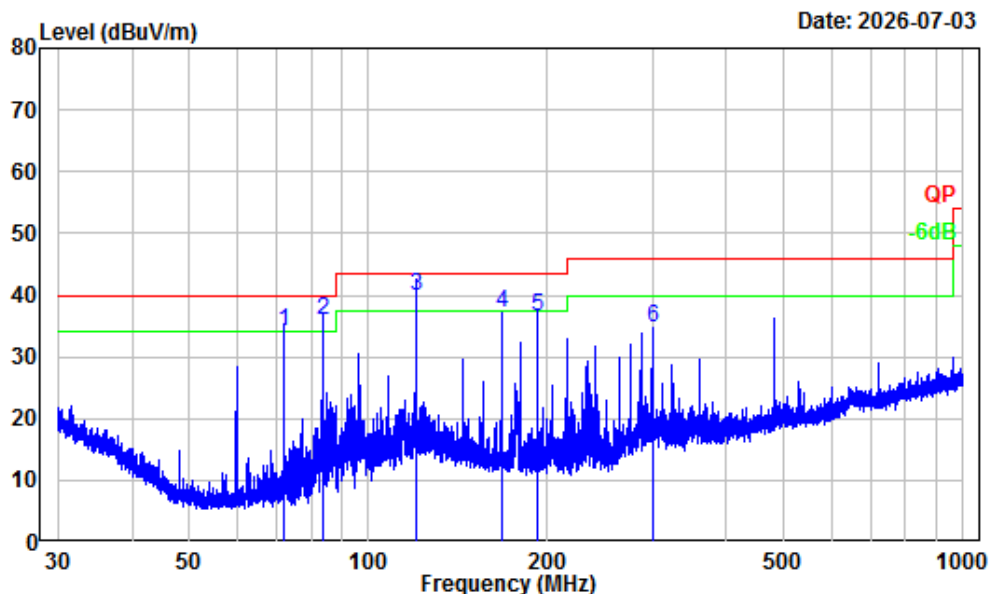


Site : Chamber A
Condition : 3m
Project Number : 2601U66317E-RF
Test Mode : Transmitting
Detector: Peak RBW/VBW: 10/30kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.480	6.78	41.18	47.96	93.97	-46.01	Peak
2	0.716	3.73	47.11	50.84	70.43	-19.59	Peak
3	0.971	1.42	42.18	43.60	67.73	-24.13	Peak
4	1.141	0.81	39.48	40.29	66.31	-26.02	Peak
5	1.443	-0.04	41.86	41.82	64.22	-22.40	Peak
6	1.911	-1.35	39.53	38.18	69.54	-31.36	Peak

30MHz-1GHz: (The maximum E-Field strength channel: Middle Channel was tested.)

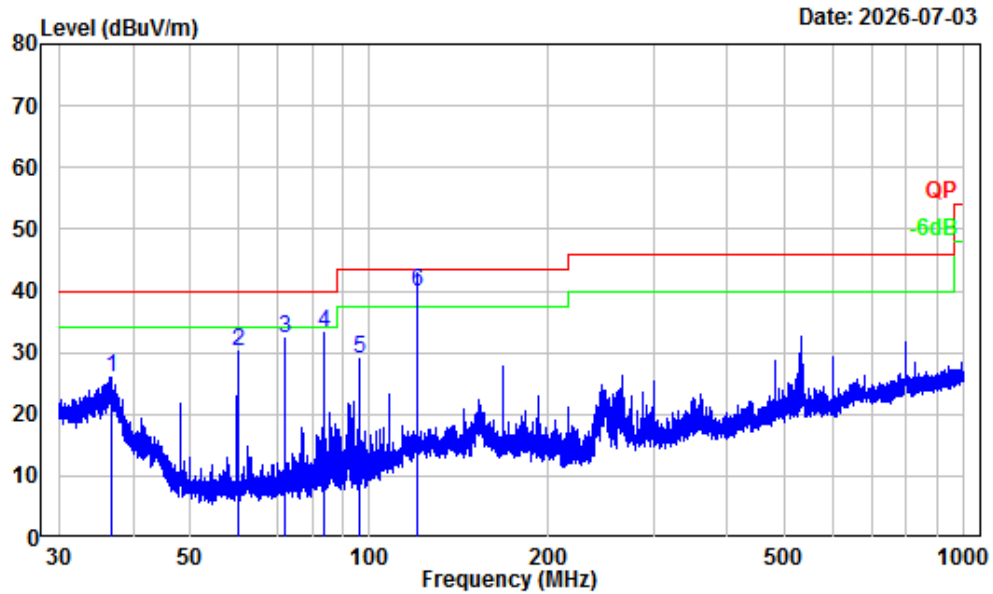
Note: When the test result of peak was less than the limit of QP/Average more than 6dB, just peak value were recorded.

Horizontal

Site : Chamber A
Condition : 3m Horizontal
Project Number : 2601U66317E-RF
Test Mode : Transmitting
Detector: Peak RBW/VBW: 120/500kHz
Tester : Anson Su

	Freq	Factor	Read Level	Read Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	71.99	-17.76	51.98	34.22	40.00	-5.78	QP
2	84.00	-18.01	53.80	35.79	40.00	-4.21	QP
3	120.07	-11.44	51.39	39.95	43.50	-3.55	QP
4	167.97	-12.90	50.16	37.26	43.50	-6.24	Peak
5	192.00	-13.47	50.03	36.56	43.50	-6.94	QP
6	299.97	-11.08	45.74	34.66	46.00	-11.34	Peak

Vertical

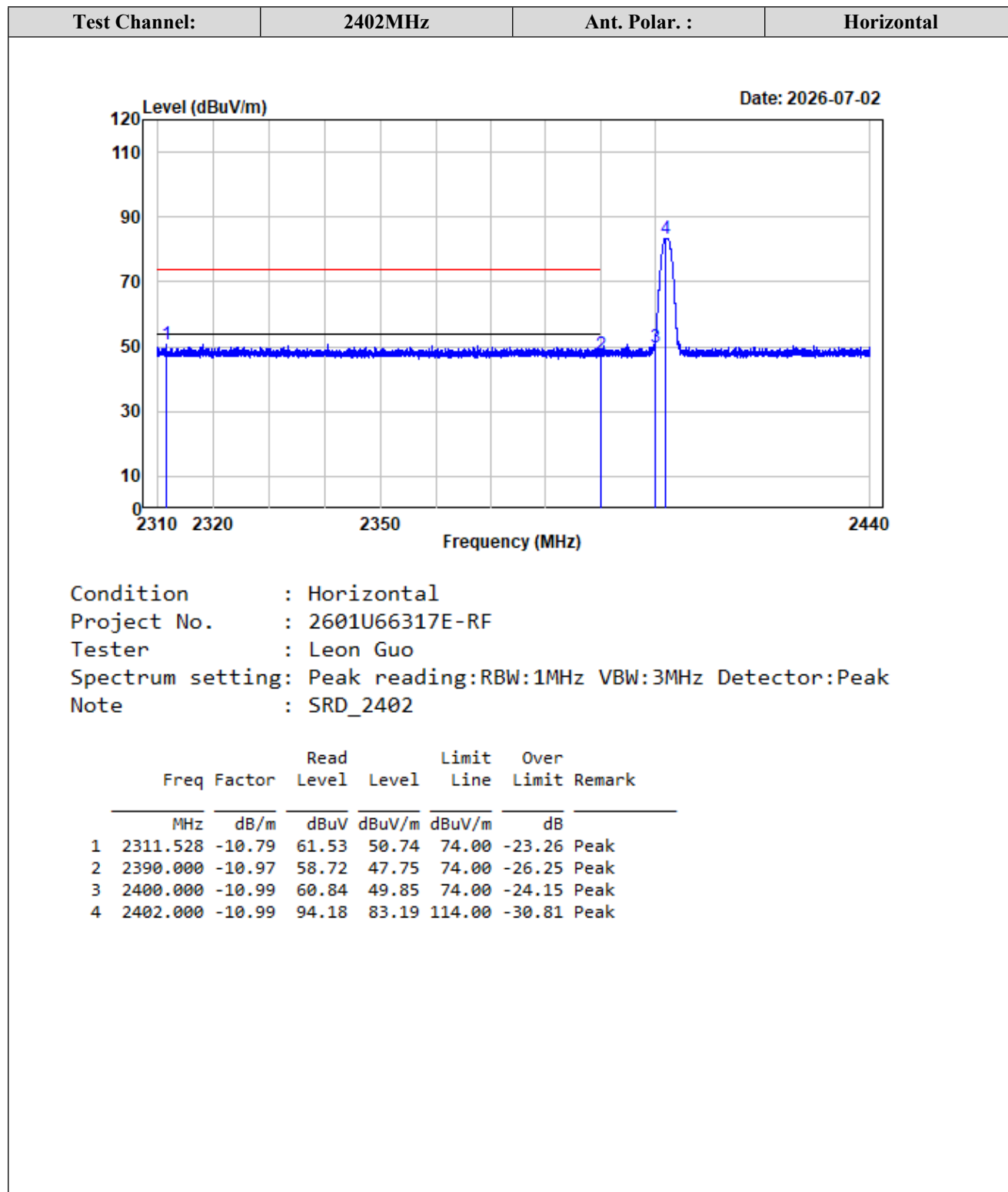


Site : Chamber A
Condition : 3m Vertical
Project Number : 2601U66317E-RF
Test Mode : Transmitting
Detector: Peak RBW/VBW: 120/500kHz
Tester : Anson Su

	Freq	Factor	Read Level	Read Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	36.78	-9.90	35.85	25.95	40.00	-14.05	Peak
2	59.99	-17.98	48.20	30.22	40.00	-9.78	Peak
3	71.99	-17.76	50.13	32.37	40.00	-7.63	Peak
4	84.00	-18.01	51.29	33.28	40.00	-6.72	Peak
5	96.01	-16.90	45.88	28.98	43.50	-14.52	Peak
6	120.01	-11.45	51.24	39.79	43.50	-3.71	QP

Above 1GHz:**Fundamental and Band Edge Measurements (Radiated):**

Note: The test result of peak was less than the limit of average, so just peak values were recorded.

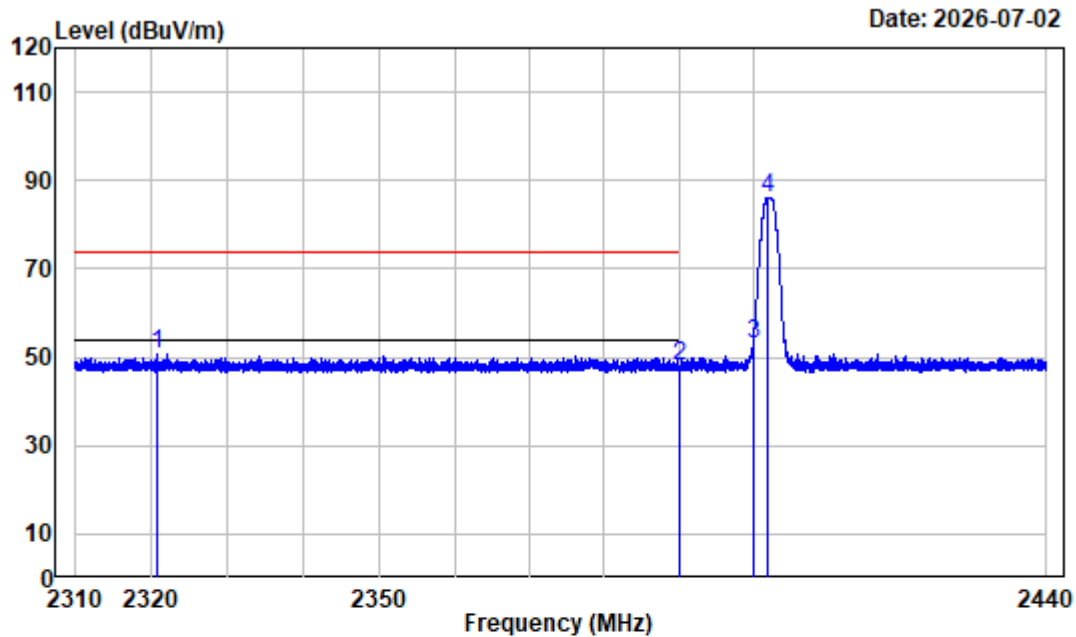


Test Channel:

2402MHz

Ant. Polar. :

Vertical



Condition : Vertical

Project No. : 2601U66317E-RF

Tester : Leon Guo

Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak

Note : SRD_2402

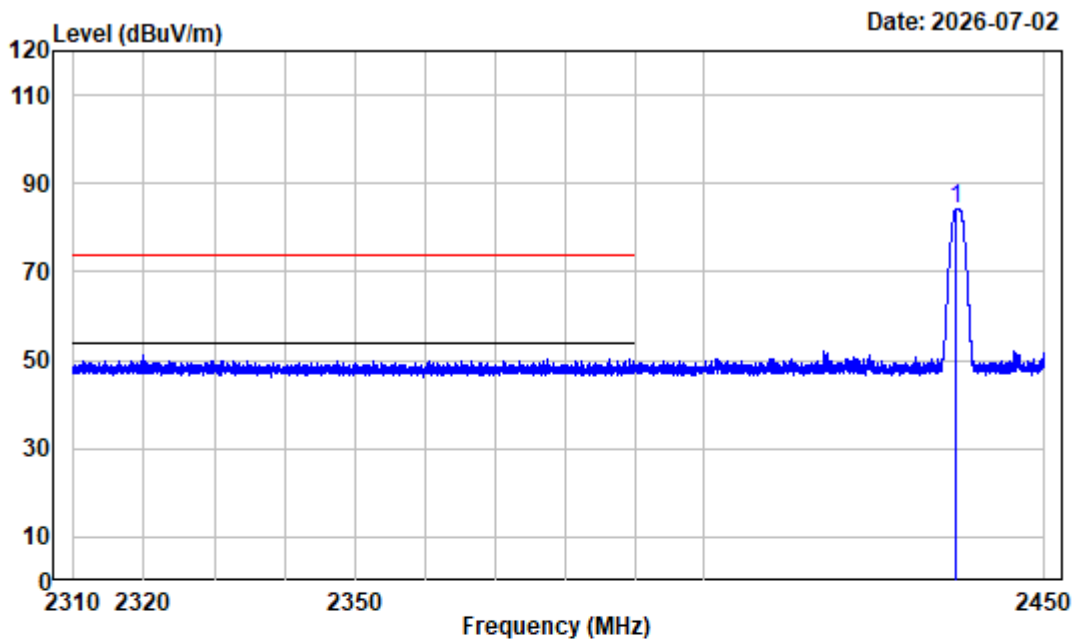
	Freq	Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2320.790	-10.81	61.56	50.75	74.00	-23.25	Peak
2	2390.000	-10.97	58.87	47.90	74.00	-26.10	Peak
3	2400.000	-10.99	64.05	53.06	74.00	-20.94	Peak
4	2402.000	-10.99	97.11	86.12	114.00	-27.88	Peak

Test Channel:

2437MHz

Ant. Polar. :

Horizontal



Condition : Horizontal

Project No. : 2601U66317E-RF

Tester : Leon Guo

Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak

Note : SRD_2437

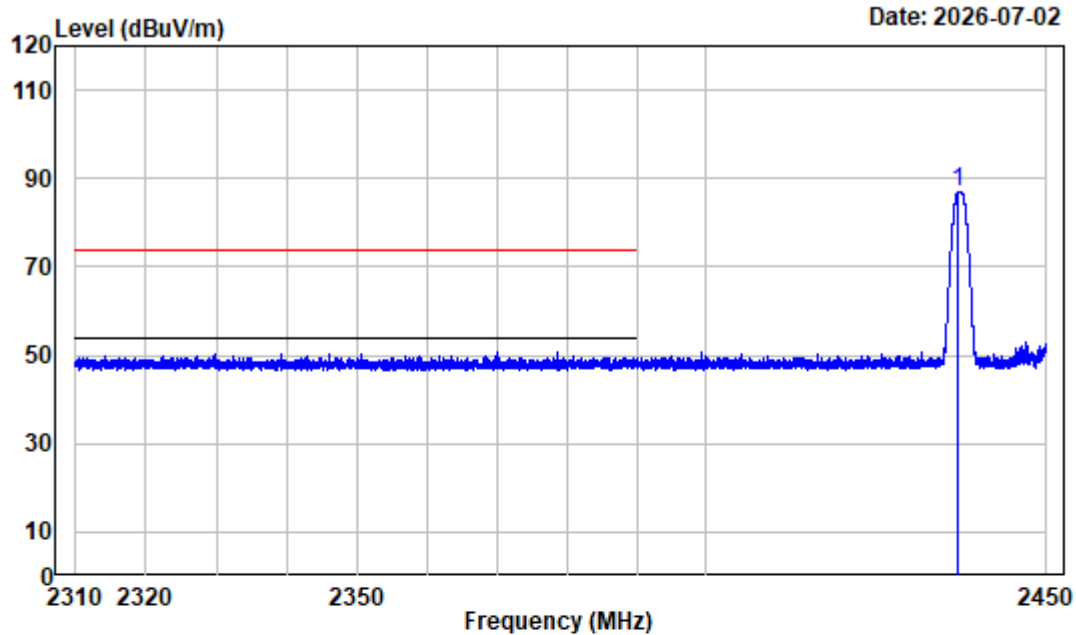
		Read		Limit	Over	Remark
Freq Factor		Level	Level	Line	Limit	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 2437.000	-10.91	95.11	84.20	114.00	-29.80	Peak

Test Channel:

2437MHz

Ant. Polar. :

Vertical



Condition : Vertical

Project No. : 2601U66317E-RF

Tester : Leon Guo

Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak

Note : SRD_2437

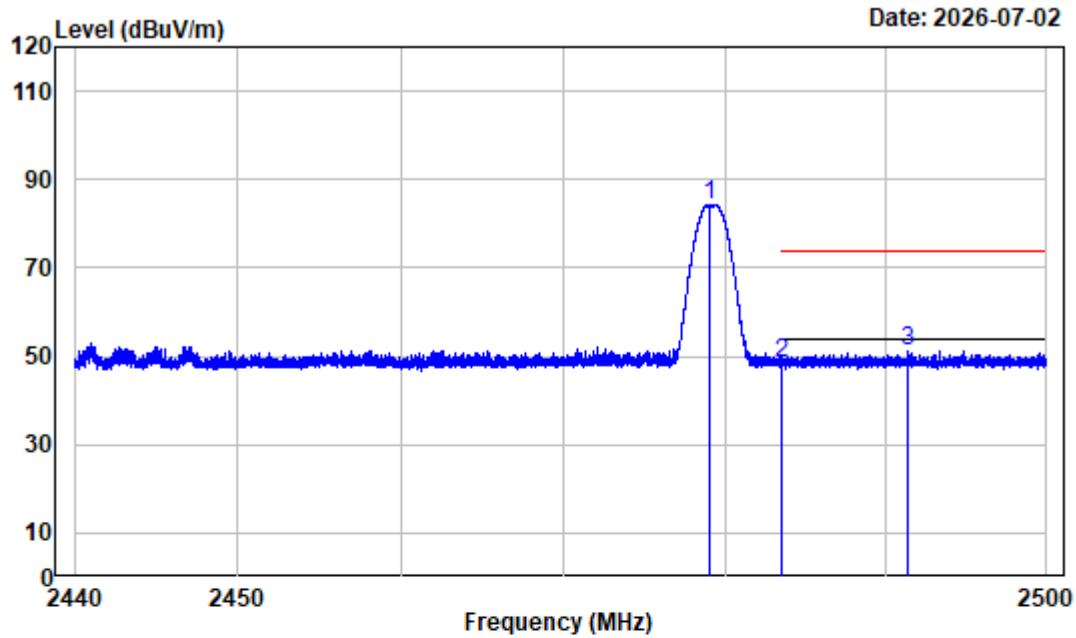
	Freq Factor		Read	Limit	Over	Remark
	MHz	dB/m	Level	Level	Line	
			dBuV	dBuV/m	dBuV/m	dB
1	2437.000	-10.91	97.99	87.08	114.00	-26.92 Peak

Test Channel:

2479MHz

Ant. Polar. :

Horizontal



Condition : Horizontal

Project No. : 2601U66317E-RF

Tester : Leon Guo

Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak

Note : SRD_2479

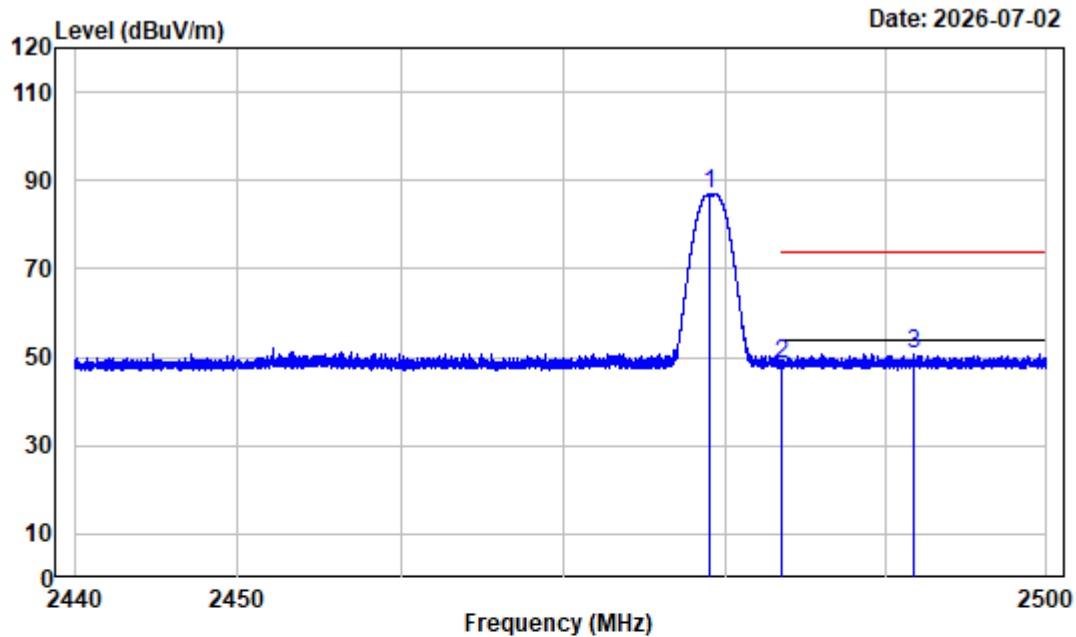
Freq Factor		Read Level	Level	Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2479.000	-10.92	94.96	84.04	114.00	-29.96 Peak
2	2483.500	-10.93	59.24	48.31	74.00	-25.69 Peak
3	2491.397	-10.93	62.17	51.24	74.00	-22.76 Peak

Test Channel:

2479MHz

Ant. Polar. :

Vertical



Condition : Vertical

Project No. : 2601U66317E-RF

Tester : Leon Guo

Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak

Note : SRD_2479

	Freq Factor		Read	Limit	Over	Remark
	MHz	dB/m	Level	Level	Line	
			dBuV	dBuV/m	dBuV/m	dB
1	2479.000	-10.92	97.68	86.76	114.00	-27.24 Peak
2	2483.500	-10.93	59.32	48.39	74.00	-25.61 Peak
3	2491.758	-10.93	61.80	50.87	74.00	-23.13 Peak

Harmonics and Other Emissions (1-25GHz):

Frequency (MHz)	Reading (dBμV)	PK/AV	Polar (H/V)	Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Low Channel							
4804.00	69.72	PK	H	-7.83	61.89	74	-12.11
4804.00	76.88	PK	V	-7.83	69.05	74	-4.95
7206.00	62.51	PK	H	-2.21	60.30	74	-13.70
7206.00	65.96	PK	V	-2.21	63.75	74	-10.25
Middle Channel							
4874.00	69.66	PK	H	-7.68	61.98	74	-12.02
4874.00	76.76	PK	V	-7.68	69.08	74	-4.92
7311.00	61.21	PK	H	-2.28	58.93	74	-15.07
7311.00	65.48	PK	V	-2.28	63.20	74	-10.80
High Channel							
4958.00	67.33	PK	H	-7.58	59.75	74	-14.25
4958.00	74.93	PK	V	-7.58	67.35	74	-6.65
7437.00	61.22	PK	H	-1.85	59.37	74	-14.63
7437.00	65.60	PK	V	-1.85	63.75	74	-10.25

Note:

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

Absolute Level = Factor + Reading

Margin = Absolute Level - Limit

The other spurious emission which is 20dB to the limit or in noise floor level was not recorded.

The parameters of the Multiplex Switch Test Control Set are added to the reading results by adding the TDF to the spectrum analyzer.

Field Strength of Average							
Frequency (MHz)	Peak Measurement @3m dBμV/m)	Polar (H/V)	Duty Cycle Correction Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.249		
					Limit (dBμV/m)	Margin (dB)	Comment
Low Channel							
4804.00	61.89	H	-55.19	6.70	54	-47.30	Harmonic
4804.00	69.05	V	-55.19	13.86	54	-40.14	Harmonic
7206.00	60.30	H	-55.19	5.11	54	-48.89	Harmonic
7206.00	63.75	V	-55.19	8.56	54	-45.44	Harmonic
Middle Channel							
4874.00	61.98	H	-55.19	6.79	54	-47.21	Harmonic
4874.00	69.08	V	-55.19	13.89	54	-40.11	Harmonic
7311.00	58.93	H	-55.19	3.74	54	-50.26	Harmonic
7311.00	63.20	V	-55.19	8.01	54	-45.99	Harmonic
High Channel							
4958.00	59.75	H	-55.19	4.56	54	-49.44	Harmonic
4958.00	67.35	V	-55.19	12.16	54	-41.84	Harmonic
7437.00	59.37	H	-55.19	4.18	54	-49.82	Harmonic
7437.00	63.75	V	-55.19	8.56	54	-45.44	Harmonic

Note:

Corrected. Amplitude = Peak level+ Duty Cycle Corrected Factor

Margin = Corrected. Amplitude - Limit

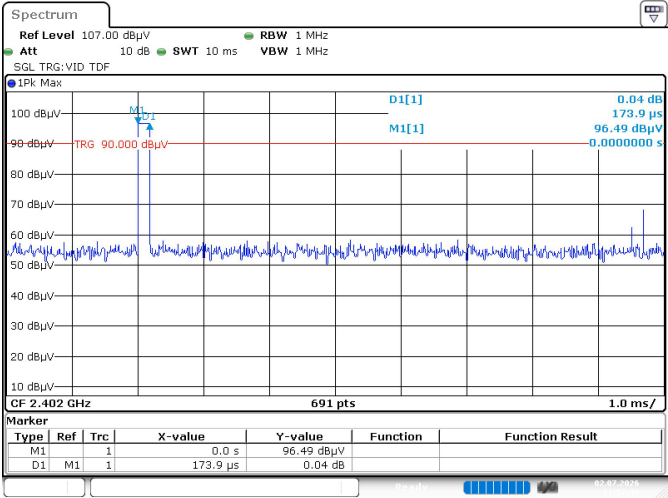
Duty cycle (worst case)

Ton =0.1739ms

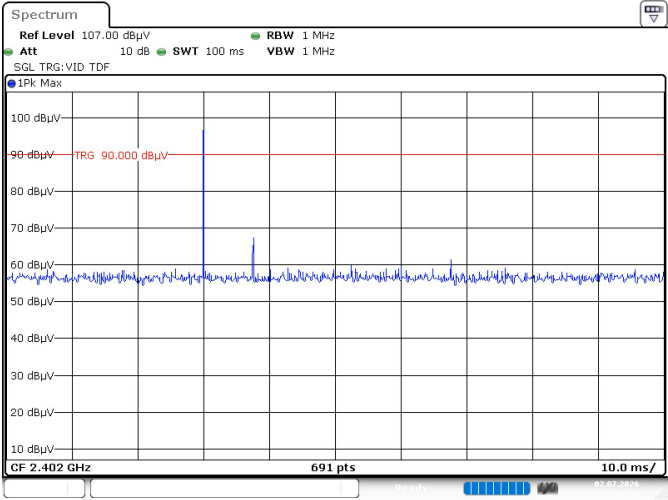
Duty cycle = Ton/100 = 0.1739/100=0.001739

Duty Cycle Corrected Factor = 20lg (Duty cycle) = 20lg0.001739= -55.19

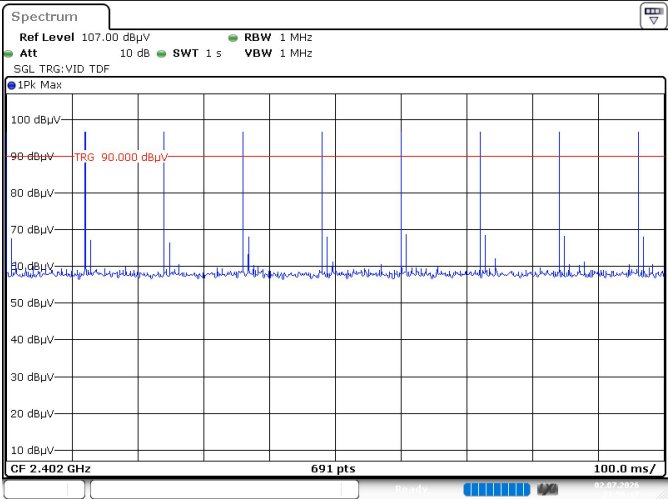
Ton



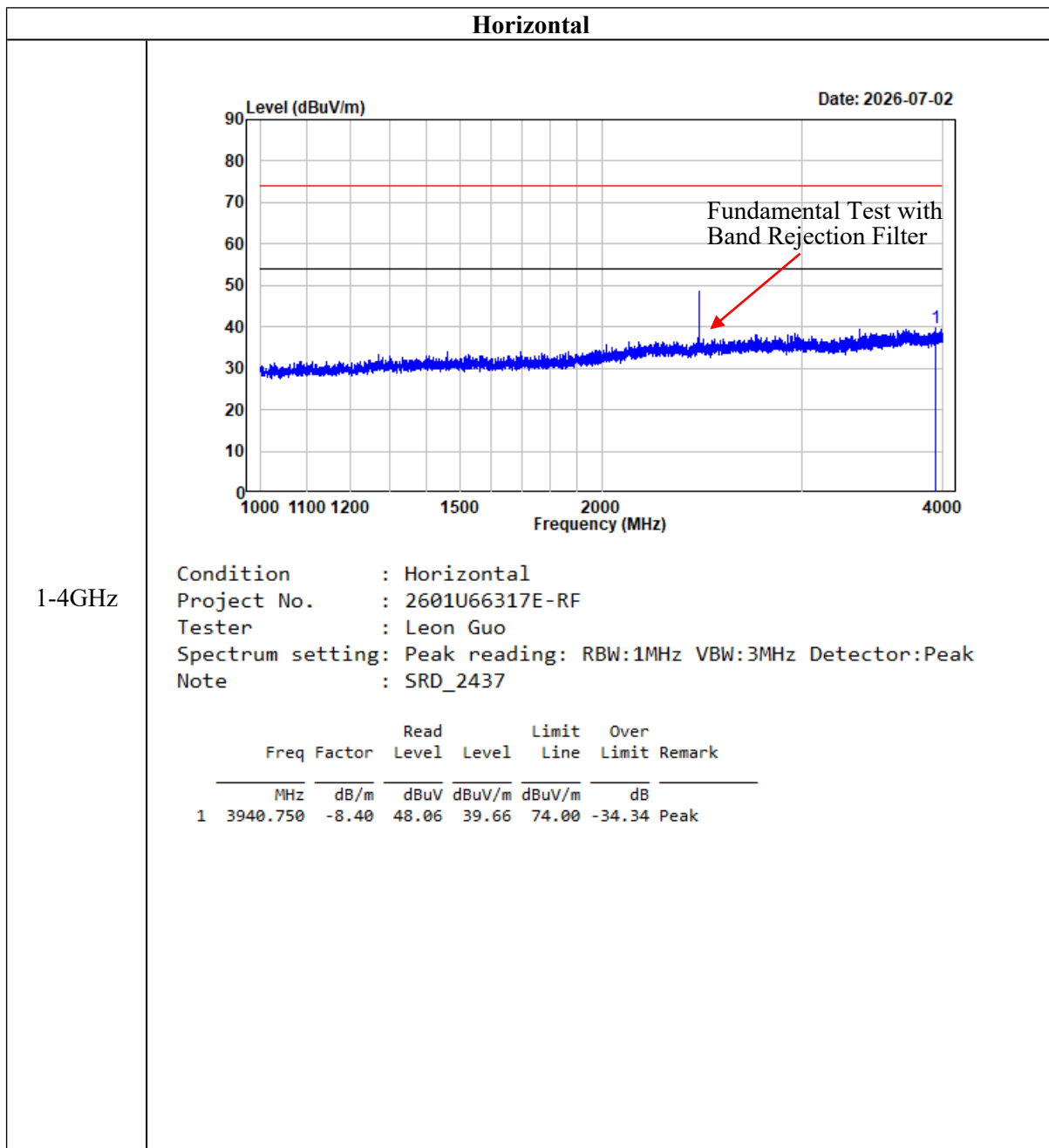
Duty Cycle
(100ms)

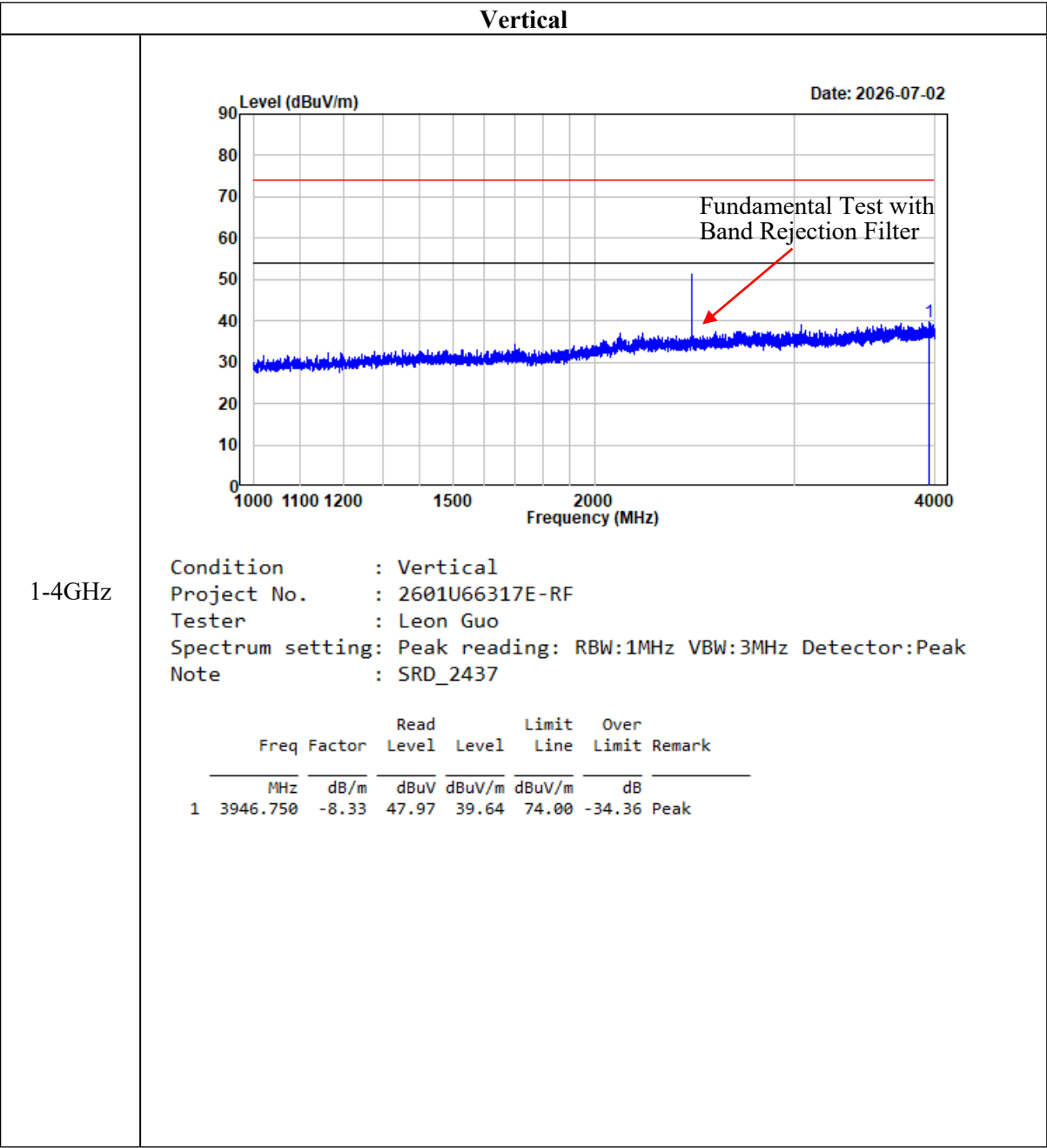


Duty Cycle
(1s)



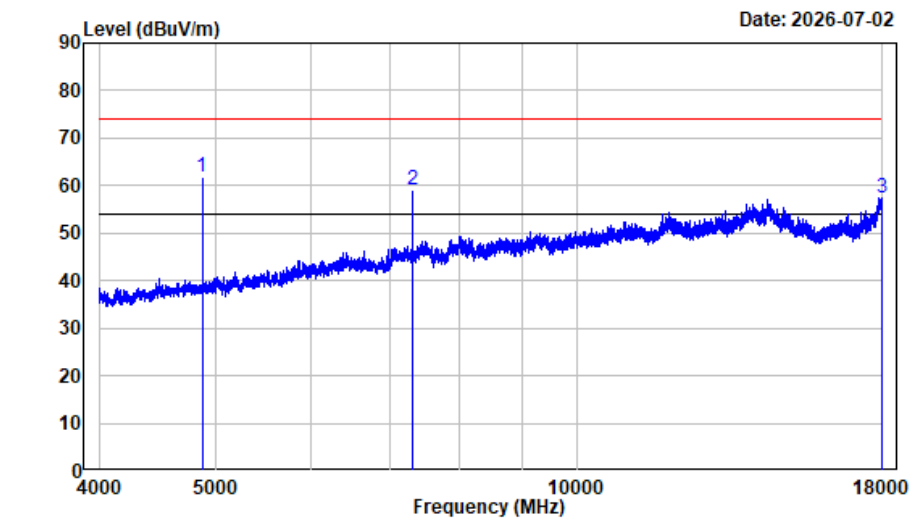
Listed with the worst case test plot:





Horizontal Peak

4-18GHz

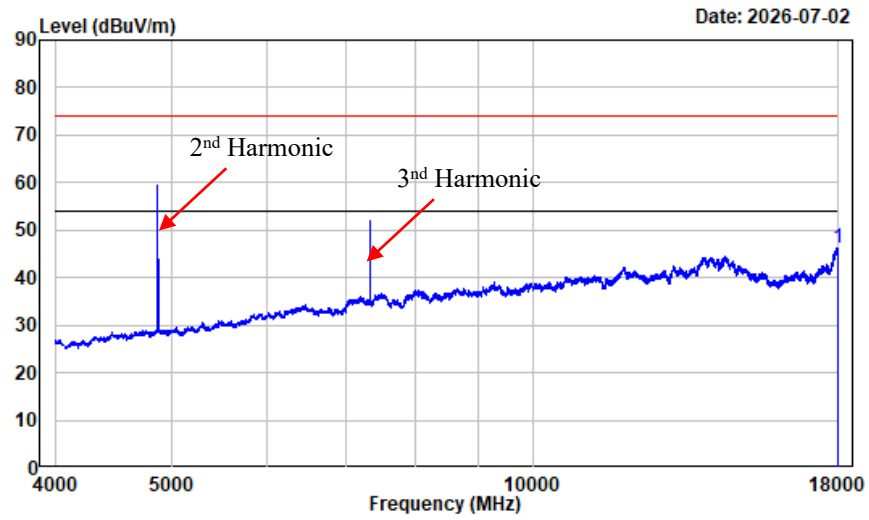


Condition : Horizontal
Project No. : 2601U66317E-RF
Tester : Leon Guo
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : SRD_2437

		Read		Limit	Over	Remark
Freq	Factor	Level	Level	Line	Limit	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 4874.000	-7.68	69.66	61.98	74.00	-12.02	Peak
2 7311.000	-2.28	61.21	58.93	74.00	-15.07	Peak
3 17991.250	9.52	47.99	57.51	74.00	-16.49	Peak

Horizontal Average

4-18GHz

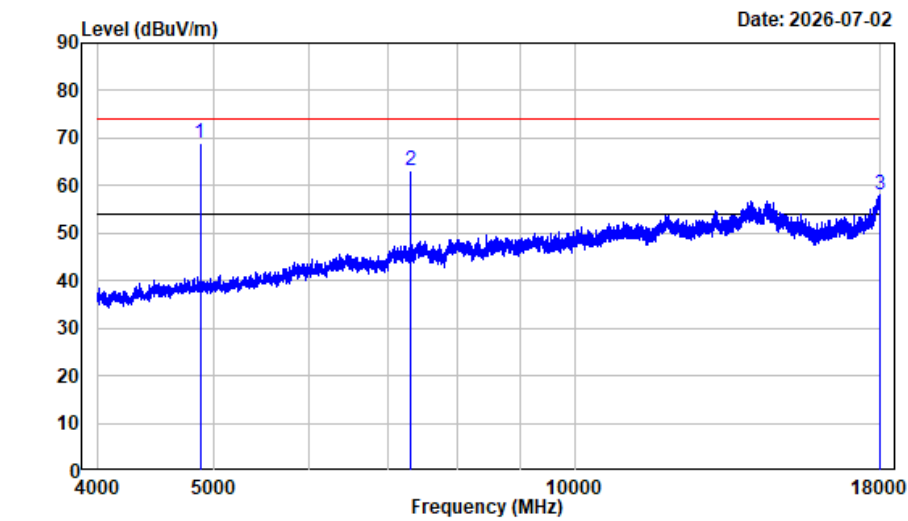


Condition : Horizontal
 Project No. : 2601U66317E-RF
 Tester : Leon Guo
 Spectrum setting: Average reading: RBW:1MHz VBW:10kHz Detector:Peak
 Note : SRD_2437

Freq		Factor	Read Level	Level	Limit Line	Over Limit	Remark
MHz		dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 17998.250		9.55	36.80	46.35	54.00	-7.65	Average

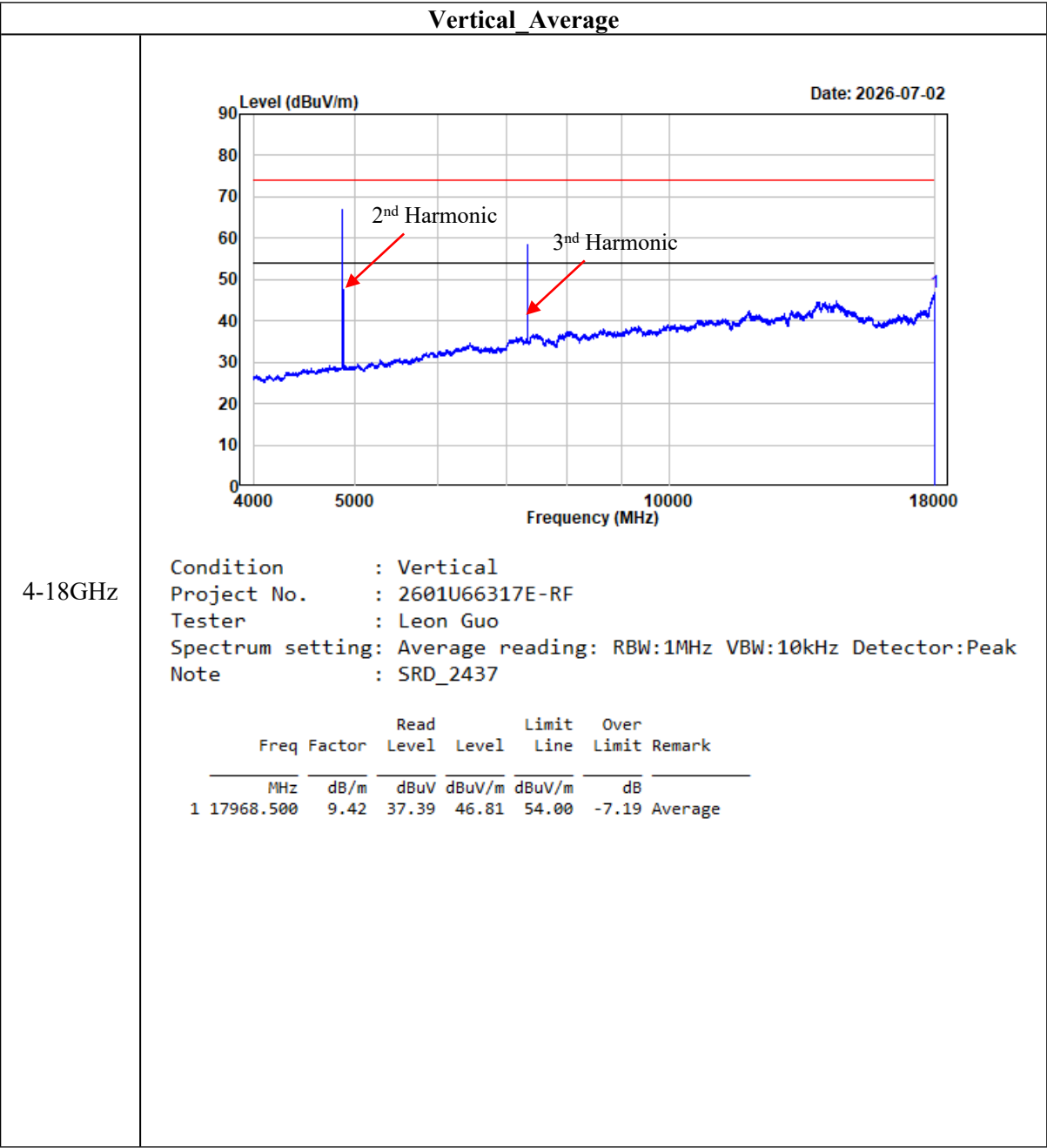
Vertical Peak

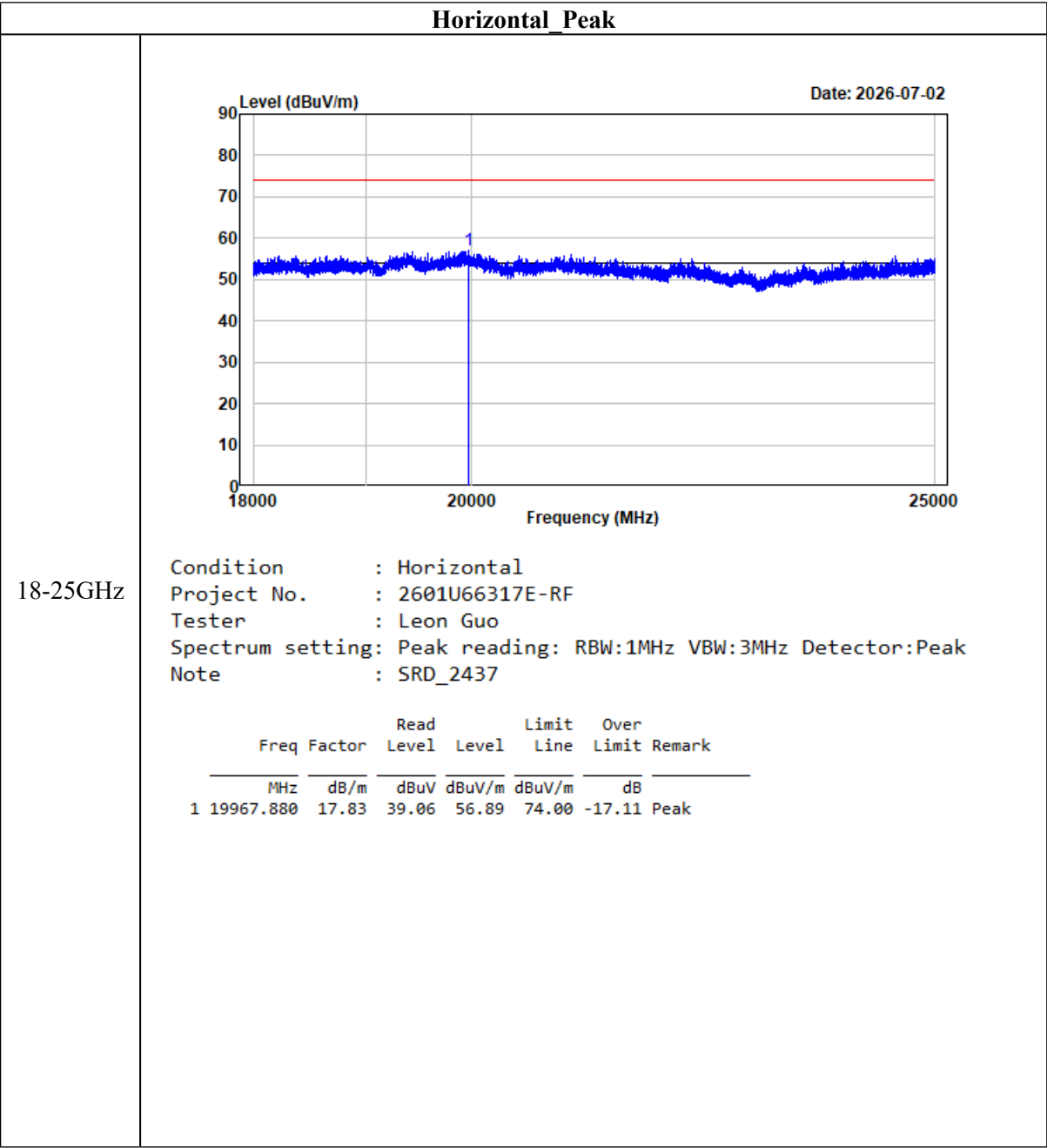
4-18GHz



Condition : Vertical
Project No. : 2601U66317E-RF
Tester : Leon Guo
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : SRD_2437

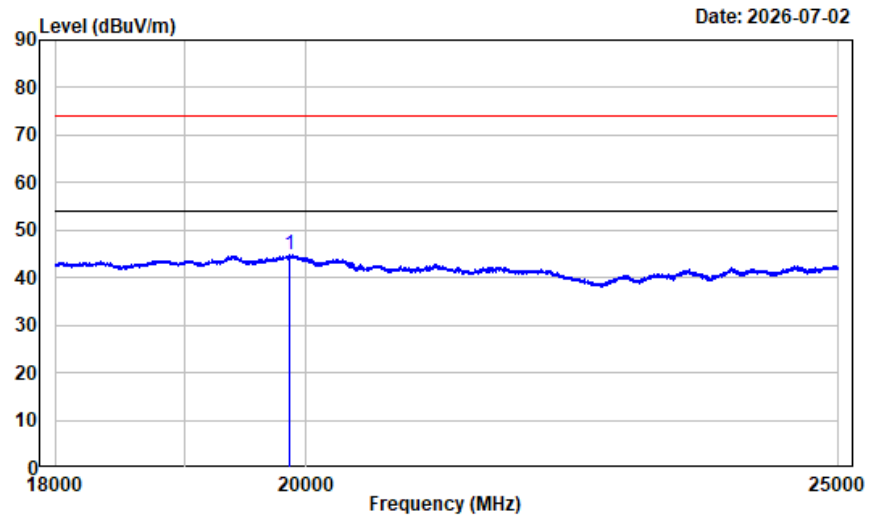
		Read		Limit	Over	Remark
Freq	Factor	Level	Level	Line	Limit	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 4874.000	-7.68	76.76	69.08	74.00	-4.92	Peak
2 7311.000	-2.28	65.48	63.20	74.00	-10.80	Peak
3 17986.000	9.49	48.56	58.05	74.00	-15.95	Peak





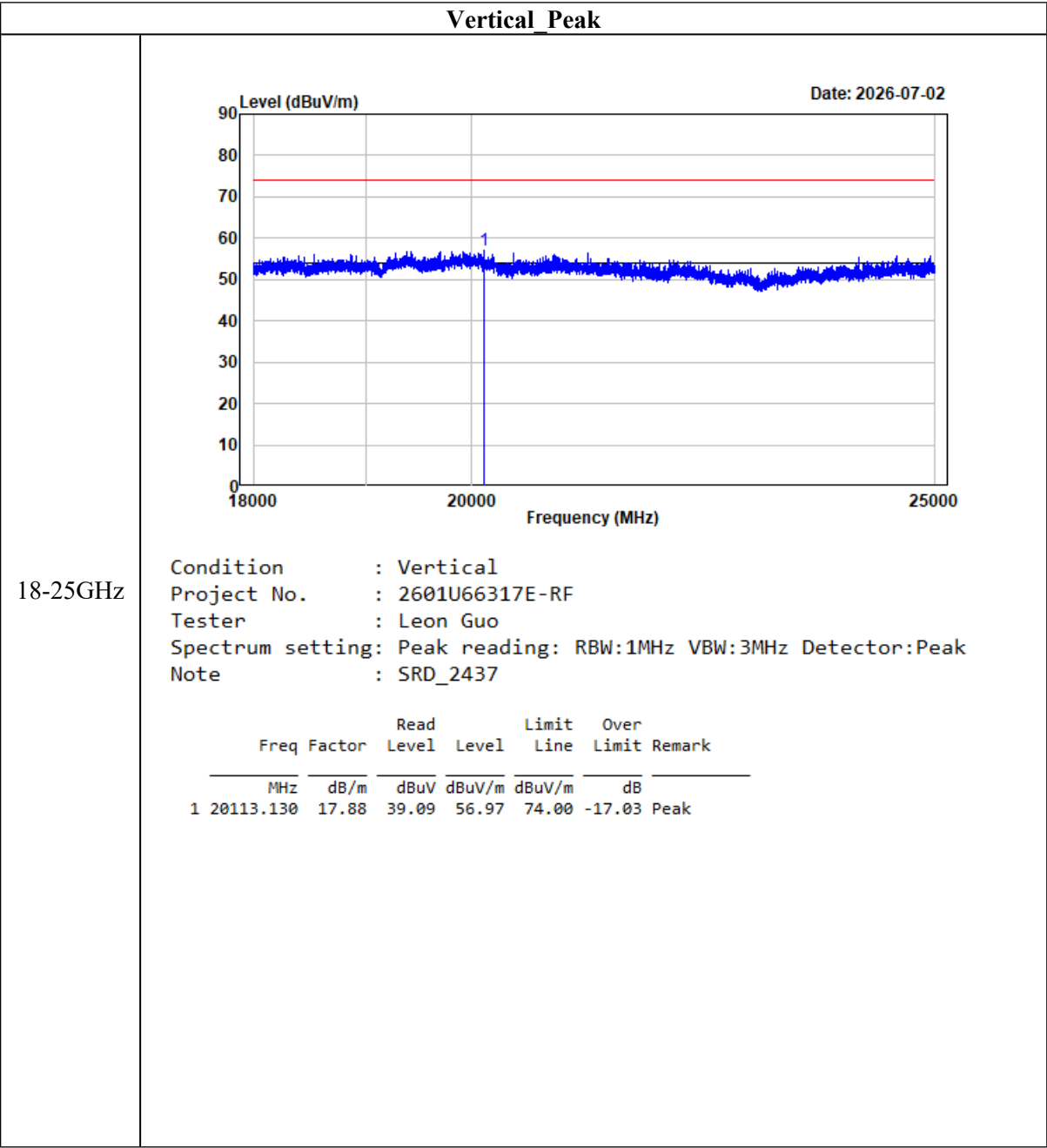
Horizontal Average

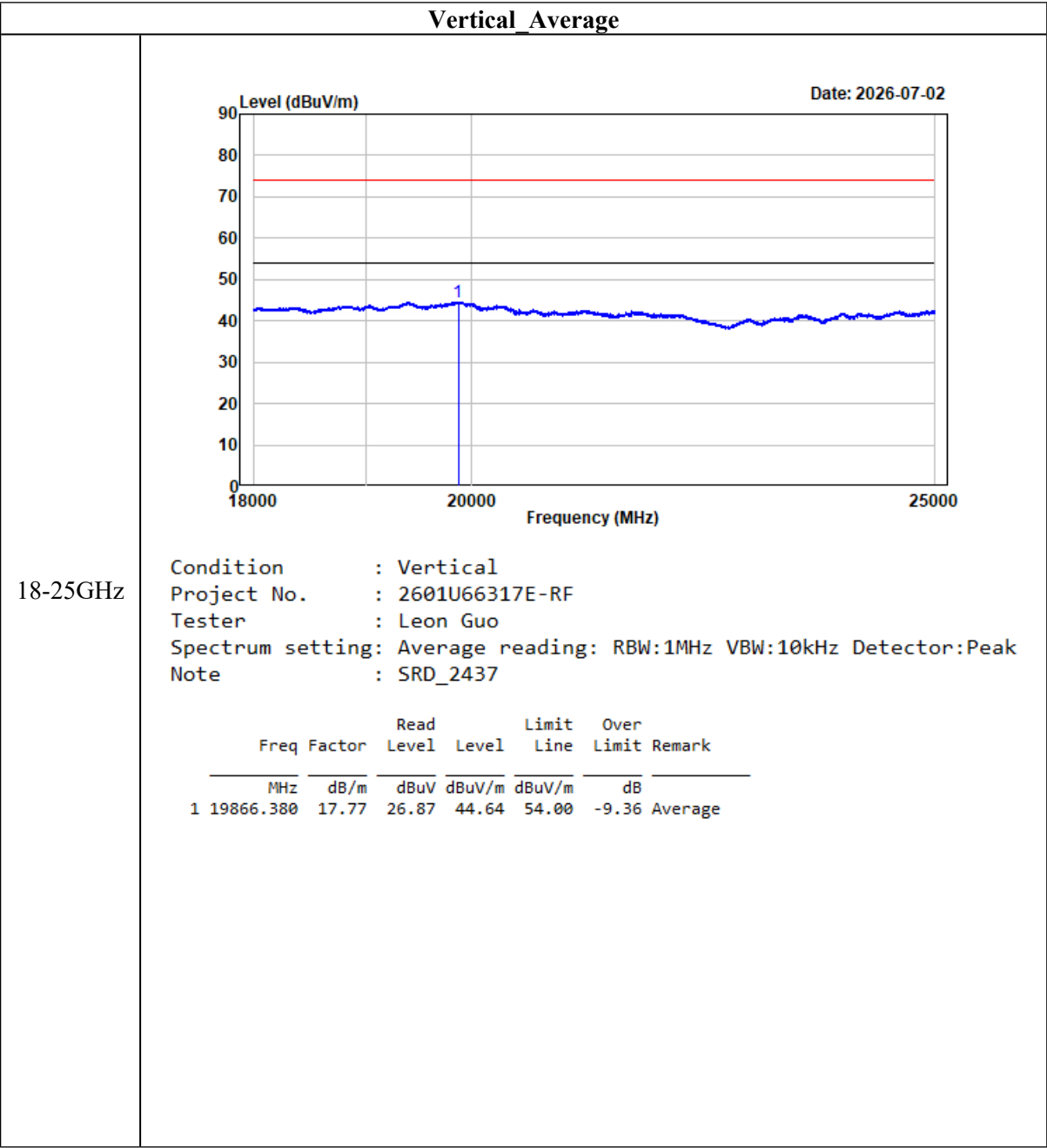
18-25GHz



Condition : Horizontal
 Project No. : 2601U66317E-RF
 Tester : Leon Guo
 Spectrum setting: Average reading: RBW:1MHz VBW:10kHz Detector:Peak
 Note : SRD_2437

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 19863.750	17.77	27.14	44.91	54.00	-9.09	Average





FCC§15.215(c) - 20dB EMISSION BANDWIDTH

Applicable Standard

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in § 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

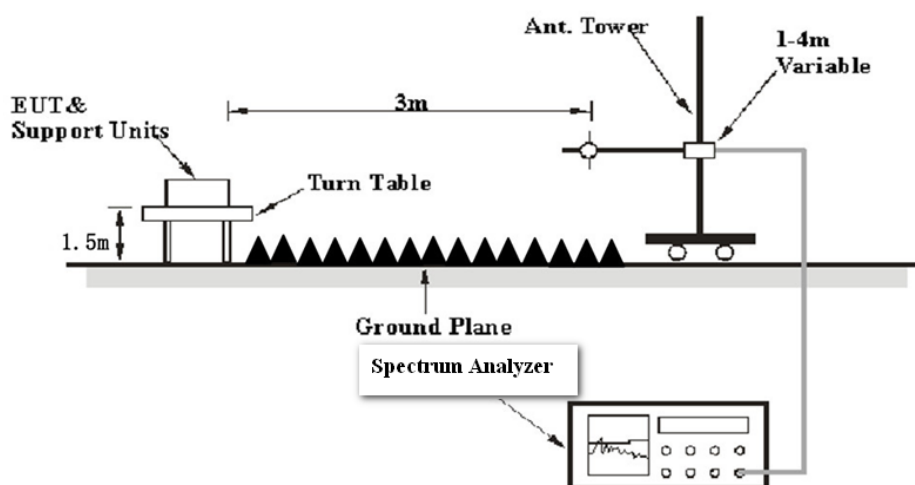
Test Procedure

Test Method: ANSI C63.10-2020 Clause 6.9.2

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five 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 video bandwidth (VBW) shall be at least three times 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 $[10 \log (OBW/RBW)]$ below the reference level. Specific guidance is given in 4.1.6.2.
- d) Steps a) through c) might require iteration to adjust within the specified tolerances.
- e) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target “-xx dB down” requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value.
- f) Set detection mode to peak and trace mode to max-hold.
- g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).
- h) Determine the “-xx dB down amplitude” using $[(\text{reference value}) - xx]$. Alternatively, this calculation may be made by using the marker-delta function of the instrument.
- i) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j).

j) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-xx dB down amplitude” determined in step h). If a marker is below this “-xx dB down amplitude” value, then it shall be as close as possible to this value. The dBc bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the “-xx dB down amplitude” determined in step h). Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth.

k) The dBc bandwidth shall be reported by providing spectral 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).



Test Data

Environmental Conditions

Temperature:	23.1 °C
Relative Humidity:	56 %
ATM Pressure:	101.8 kPa

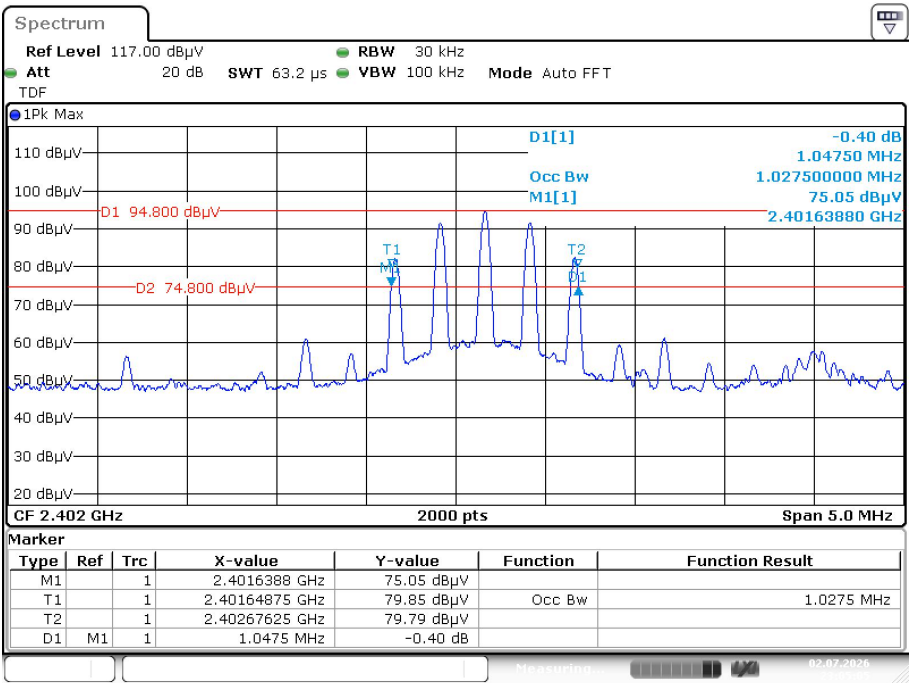
The testing was performed by Leon Guo on 2026-07-02.

EUT operation mode: Transmitting

Please refer to the following table and plots.

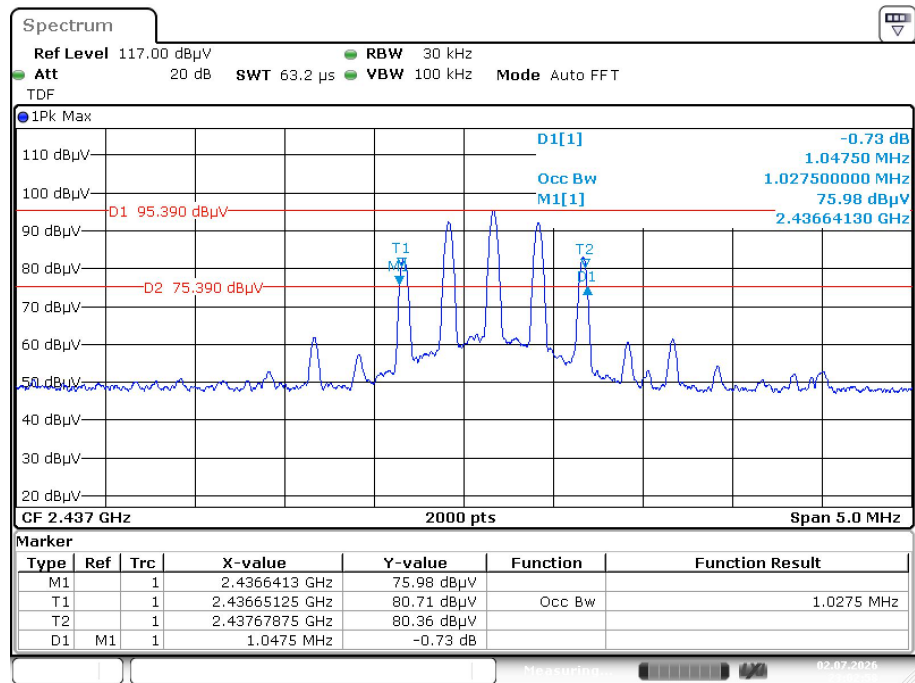
Channel	Frequency (MHz)	20dB Bandwidth (MHz)
Low	2402	1.048
Middle	2437	1.048
High	2479	1.047

Low channel



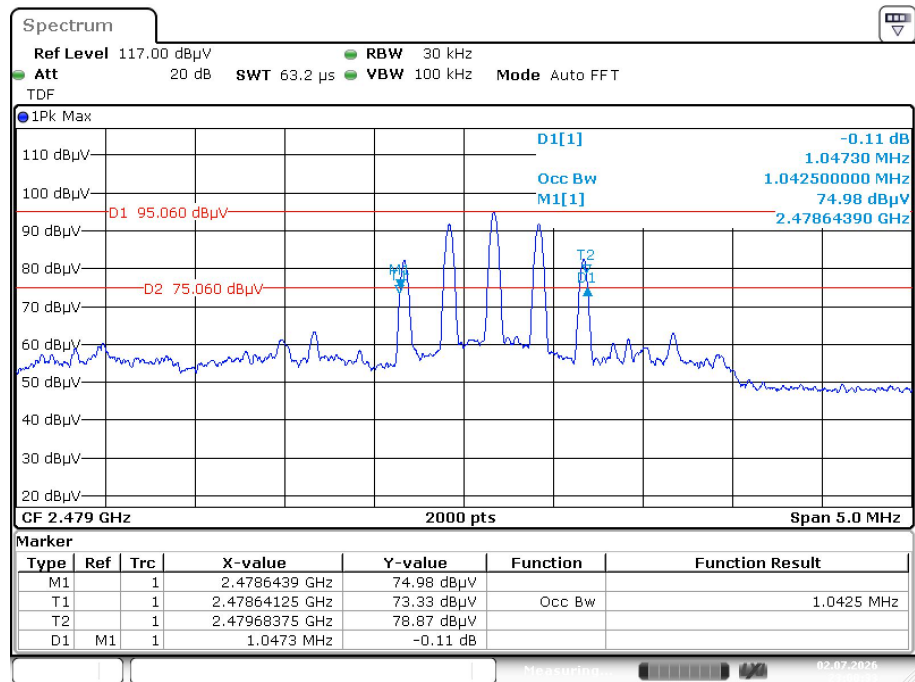
ProjectNo.:2601U66317E-RF Tester:Leon Guo
Date: 2.JUL.2026 23:05:06

Middle Channel



ProjectNo.:2601U66317E-RF Tester:Leon Guo
Date: 2.JUL.2026 23:02:58

High Channel



ProjectNo.:2601U66317E-RF Tester:Leon Guo
Date: 2.JUL.2026 23:00:34

Note: The TDF is the parameter of the Multiplex Switch Test Control Set and does not include the antenna factor, cable loss and amplifier factor.

EUT PHOTOGRAPHS

Please refer to the attachment 2601U66317E-RF-EXP External photo and 2601U66317E-RF-INP Internal photo.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2601U66317E-RF-TSP Test Setup photo.

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