



FCC PART 15.247 TEST REPORT

For

Austar Hearing Science and Technology (Xiamen) Co., Ltd.

B8, Biomedical Industrial Park, No.2064 Wengjiao West Road, Haicang Dist. Xiamen, Fujian, China

FCC ID: 2A445FAX916-B-L

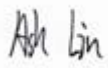
Report Type: Original Report	Product Name: Rechargeable OTC Hearing Aids
Report Number:	2507V04150E-RF-02
Report Date:	2025-08-06
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REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	2507V04150E-RF-02	R1V1	2025-08-06	Initial Release

GENERAL INFORMATION**Product Description for Equipment under Test (EUT)**

Applicant:	Austar Hearing Science and Technology (Xiamen) Co., Ltd.
Product Name:	Rechargeable OTC Hearing Aids
Tested Model:	FAX916-B
Multiple Model(s):	Atom X
Trade Mark:	AUSTAR®
Power Supply:	DC 3.7V from battery
Maximum Peak Output Power:	3.42dBm
RF Function:	Classic BT
Operating Band/Frequency:	2402-2480 MHz
Channel Number:	79
Channel Separation:	1 MHz
Modulation Type:	GFSK, $\pi/4$ -DQPSK, 8DPSK
Antenna Type:	FPC
★Maximum Antenna Gain:	2.69 dBi
EUT Received Status:	Good

Note:

1. The Maximum Antenna Gain was declared by manufacturer.
2. The test model is identify with the series model except for the model name, please refer to declaration letter for more detail.
3. All measurement and test data in this report was gathered from production sample serial number: 36V6-1(RF Conducted), 36V6-2(Radiated Emission) (Assigned by the BACL(Xiamen). The EUT supplied by the applicant was received on 2025-07-17)

Objective

This test report is prepared for *Austar Hearing Science and Technology (Xiamen) Co., Ltd.* in accordance with Part 2-Subpart J, 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, section 15.203, 15.205, 15.209 and 15.247 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 and KDB 558074 D01 15.247 Meas Guidance v05r02.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Xiamen) to collect test data is located on the Unit 102, No. 902 Meifeng South Road, Binhai West Avenue, Science and Technology Innovation Park, Torch High tech Zone XiaMen.

Bay Area Compliance Laboratories Corp. (Xiamen) Lab is accredited to ISO/IEC 17025 by A2LA (Certificate Number: 7134.01) and the lab has been recognized as the FCC accredited lab under the KDB 974614 D01, the FCC Designation No. : CN1384.

Measurement Uncertainty

Item		U_{lab}
Radiated Emission	9kHz-150 kHz	2.82 dB
	150kHz-30MHz	2.74 dB
	30MHz~200MHz	3.47 dB
	200MHz~1GHz	4.86 dB
	1GHz~6GHz	4.88 dB
	6GHz-18GHz	4.95 dB
	18GHz~40GHz	4.45 dB
Occupied Channel Bandwidth		2%
Transmitter Conducted Power(Conducted RF power)		± 1.49 dB
Conducted Spurious Emission		± 2.92 dB
Duty Cycle		1%
Temperature		$\pm 1^{\circ}\text{C}$
Humidity		$\pm 5\%$
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.

SYSTEM TEST CONFIGURATION

Test Mode and Voltage

The system was configured for testing in a typical mode (as normally used by a typical user).	
Test mode:	Test Mode: Transmitting
Test voltage:	DC 3.7V
Remark:	During all emission tests, the EUT was configured to measure its highest possible emission level and the worst case's test data was presented in this test report.

Description of Test Configuration

Channel list:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	40	2442
1	2403	...	...
...	...	...	...
...	...	78	2480
39	2441	/	/

EUT was tested with Channel 0, 39 and 78.

★EUT Exercise Software

BT test in the engineer mode.

RF Test Tool: FCC_assist1.0.4

Test Modes	Power Level Setting		
	Lowest Channel	Middle Channel	Highest Channel
GFSK	10	10	10
$\pi/4$ -DQPSK	10	10	10
8DPSK	10	10	10

Note: The power level was declared by the applicant.

Special Accessories

No special accessory.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Lenovo	Laptop	T480	PF1P5K4F
Unknown	Debug board	Unknown	Unknown

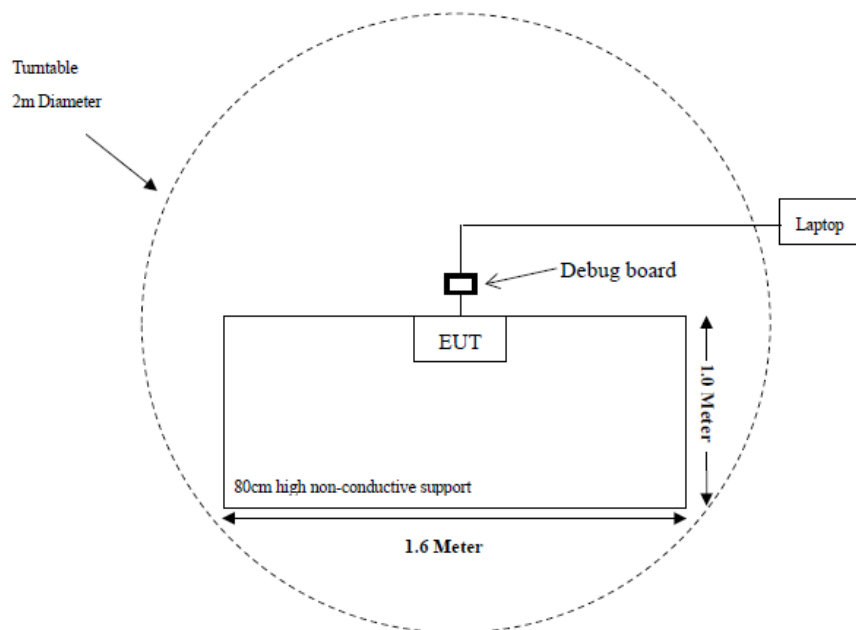
External I/O Cable

Cable Description	Length (m)	From Port	To
Cable	0.2	Debug board	EUT
USB Cable	10	Debug board	Laptop

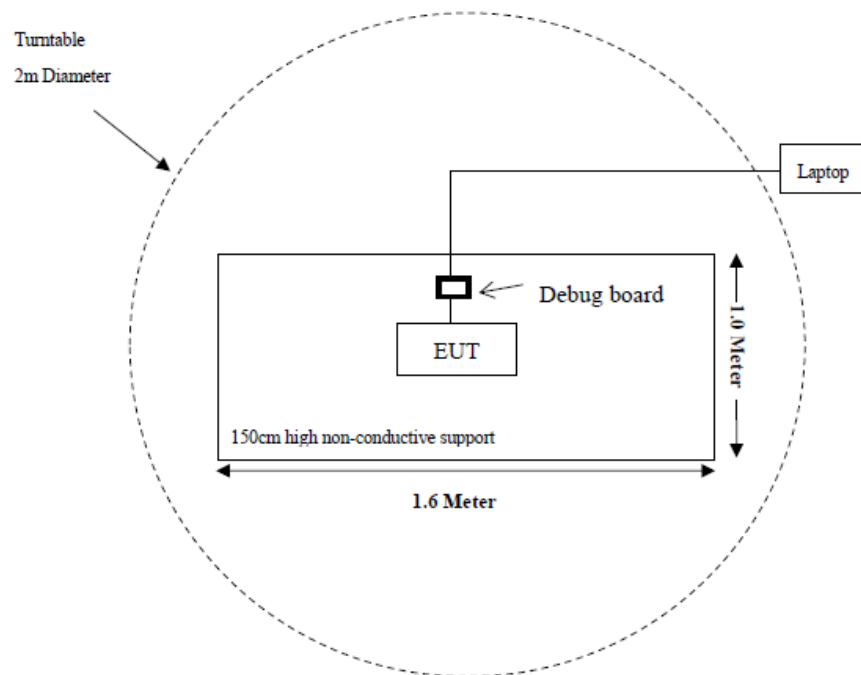
Block Diagram of Test Setup

Radiated Emission:

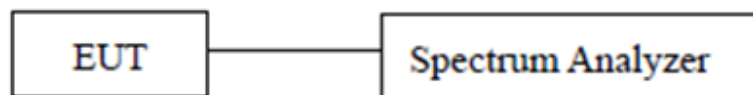
Below 1GHz



Above 1GHz



RF Conduction:



Note: A short RF cable with low cable loss connected to the EUT antenna port. The insert loss of this RF cable was Offset/TDF into the setting of test equipment:
Offset/TDF = Insert loss of RF cable

SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliant
§15.207(a)	AC Line Conducted Emissions	Not Applicable (See Note 1)
§15.205, §15.209 & §15.247(d)	Radiated Emissions & Restricted Bands Emissions & Antenna-port conducted emission	Compliant
§15.247(a)(1)	20 dB Emission Bandwidth	Compliant
§15.247(a)(1)	Channel Separation Test	Compliant
§15.247(a)(1)(iii)	Time of Occupancy (Dwell Time)	Compliant
§15.247(a)(1)(iii)	Quantity of hopping channel Test	Compliant
§15.247(b)(1)	Peak Output Power Measurement	Compliant
§15.247(d)	Band edges	Compliant

Note:

1. The EUT was powered by battery.

TEST EQUIPMENT LIST

Test Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emissions Below 1GHz					
EMI Test Receiver	Rohde & Schwarz	ESR	103103	2025/02/20	2026/02/19
Loop Antenna	Rohde & Schwarz	HFH2-Z2	830749/001	2023/07/27	2026/07/26
Antenna	Sunol Sciences	JB6	A122022-5	2023/07/27	2026/07/26
Amplifier	Sonoma	310B	120903	2025/02/20	2026/02/19
Coaxial Cable	XINHANGWEIBO	XH400T-N-4M	CC002	2025/02/20	2026/02/19
Coaxial Cable	XINHANGWEIBO	XH460B-N-2M	CC006	2025/02/20	2026/02/19
Coaxial Cable	XINHANGWEIBO	XH460B-N-12M	CC007	2025/02/20	2026/02/19
Coaxial Cable	XINHANGWEIBO	HFH2-CC	335.3609	2025/02/20	2026/02/19
Test Software	Audix	E3	18621a	N/A	N/A
Radiated Emissions Above 1 GHz					
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102051	2025/02/20	2026/02/19
Filter Switch Unit	Decentest	DT7220FSU	DS79904	2025/02/21	2026/02/20
Multiplex Switch Test Control Set	Decentest	DT7220SCU	DS79901	2025/02/21	2026/02/20
Horn Antenna	EMCO	3115	9002-3355	2024/11/19	2027/11/18
Preamplifier	GLOBAL	1313-A100M18G	4121301	2025/01/16	2026/01/15
Coaxial Cable	XINHANGWEIBO	XH800A-N-6M	CC003	2025/02/20	2026/02/19
Coaxial Cable	XINHANGWEIBO	XH800A-N-1M	CC005	2025/02/20	2026/02/19
Horn Antenna	EMCO	3116	9407-2232	2023/07/31	2026/07/30
Preamplifier	A.H.Systems	PAM-1840	200	2025/02/20	2026/02/19
Coaxial Cable	XINHANGWEIBO	XH360A-2.92-3M	CC008	2025/02/20	2026/02/19
Coaxial Cable	XINHANGWEIBO	XH360A-2.92-1M	CC009	2025/02/20	2026/02/19
Test Software	Audix	E3	18621a	N/A	N/A
RF Conducted Test					
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102051	2025/02/20	2026/02/19
Coaxial Cable	Lianxun	RF113	N/A	Each time	Each time

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

FCC §15.203 – 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. 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 one FPC antenna for Bluetooth, which was permanently attached and the Max. antenna gain is 2.69dBi, fulfill the requirement of this section. Please refer to the EUT photos.

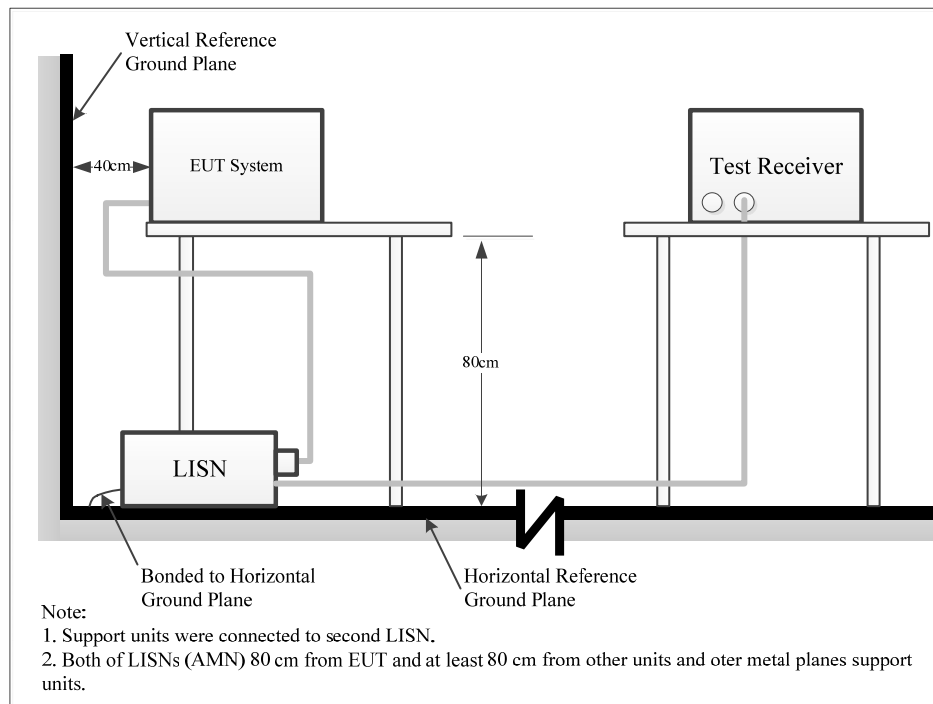
Result: Compliance

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207(a)

Test System Setup



The measurement procedure of EUT setup is according with ANSI C63.10-2020. The related limit was specified in FCC Part 15.207.

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

ANSI C63.10-2020 clause 6.2

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.

If the maximum peak value of the emissions is below the average limit, the QP value and average value measurement will not need to be performed and only record the maximum peak measured value to meet the requirements.

Result & Margin Calculation

The Result is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation from the Meter Reading. The basic equation is as follows:

Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)

Result (dBμV) = Reading (dBμV) + Factor (dB)

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

Margin (dB) = Limit (dBμV) – Result (dBμV)

Test Data

Test Result: N/A.

Note: The EUT was powered by battery.

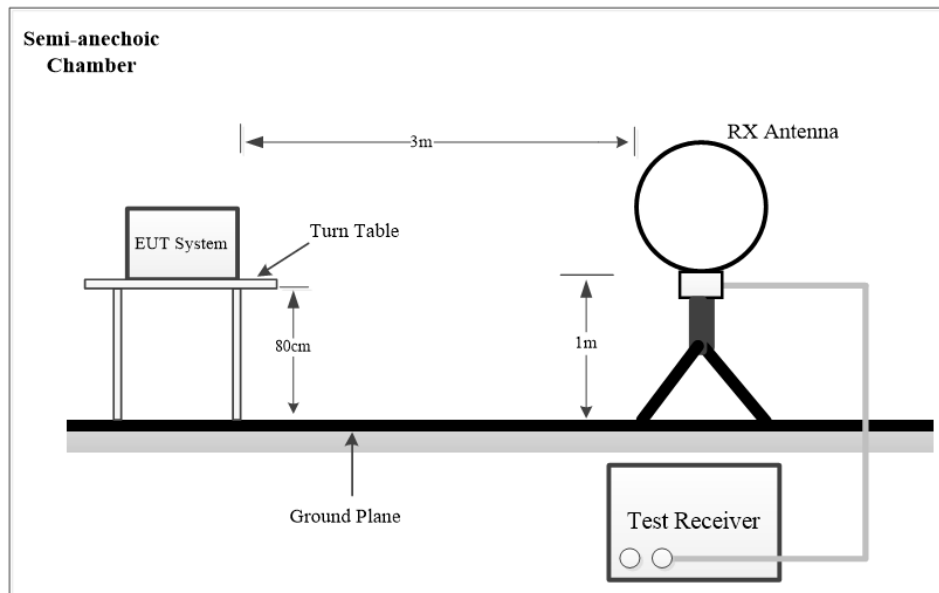
FCC §15.205, §15.209 & §15.247(d) – RADIATED EMISSIONS

Applicable Standard

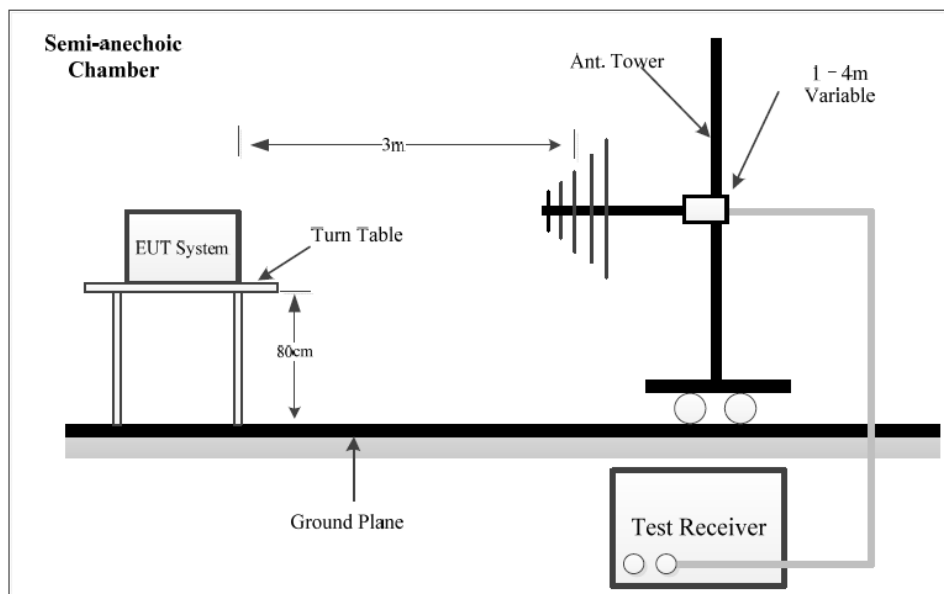
FCC §15.205; §15.209; §15.247(d)

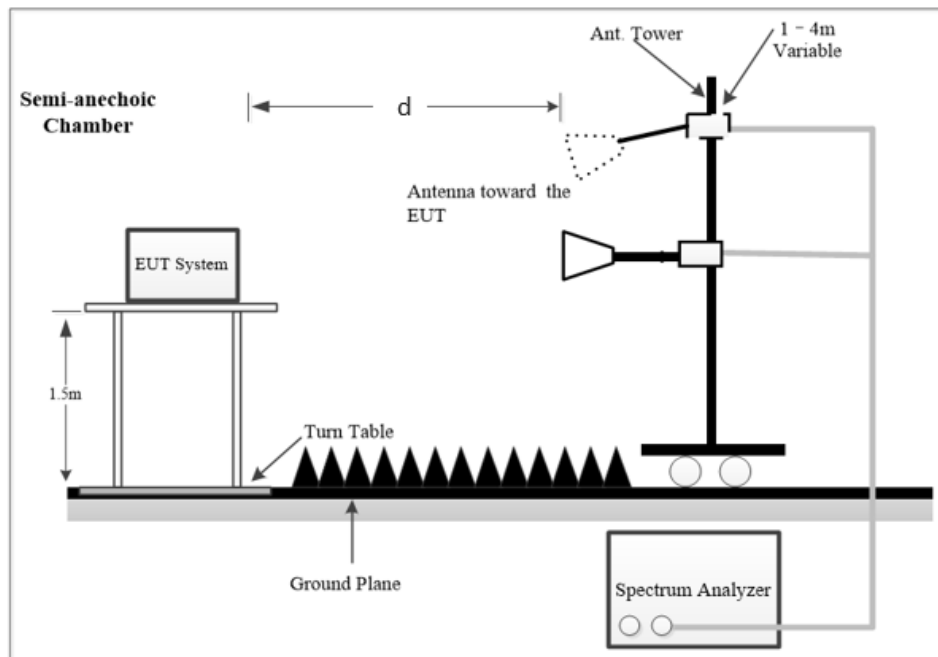
Test System Setup

9 kHz-30MHz



Below 1 GHz:



Above 1GHz:

The radiated emission tests using the setup accordance with the ANSI C63.10-2020. The specification used was the FCC 15.209, and FCC 15.247 limits.

NOTE: d is testing distance;

For Radiated Emission test (1GHz-18GHz) and Bandedge Emission test, which was performed at 3 m distance.

For Radiated Emission test (18GHz-25GHz), which was performed at 1.5 m distance, according to ANSI C63.10-2020, the test result shall be extrapolated to the specified distance using an extrapolation Factor of 20dB/decade from 3m to 1.5m.

Distance extrapolation Factor = $20 \log (\text{specific distance [3m]}/\text{test distance [1.5m]})$ dB = 6 dB

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 was set with the following configurations:

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

1GHz~25GHz:

Pre-scan:

Measurement	RBW	Video B/W	Detector
PK	1MHz	3MHz	PK
AV	1MHz	5kHz	PK

Final measurement for emission identified during the pre-scan:

Measurement	RBW	Video B/W	Detector
PK	1MHz	3MHz	PK
AV	1MHz	10Hz	PK

Test Procedure

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

For each measurement antenna alignment, the EUT shall be rotated through 0° to 360° on a turntable. 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, then the following statement shall be made: “all emissions were greater than 20 dB below the limit.”

Below 1GHz, if the measured peak level of the emissions that the measuring receiver reading level plus corrected factor is at least 6 dB below the QP emission limit, there's no need to record the measured QP level of the emissions in the report.

Above 1GHz, if the measured peak level of the emissions that the measuring receiver reading level plus corrected factor is below the AV emission limit, there's no need to record the measured AV level of the emissions in the report.

Result & Margin Calculation

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

For 9 kHz to 18GHz Radiated emission test and Bandedge emissions test
 Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - Amplifier Gain (dB)

For 18GHz to 25GHz Radiated emission test
 Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - Amplifier Gain (dB) - Extrapolation factor (dB)

Extrapolation factor = 6dB (distance = 1.5m)

Result (dBμV/m) = Reading (dBμV) + Factor (dB/m)

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

Margin (dB) = Limit (dBμV/m) – Result (dBμV/m)

Test Data

Please refer to the below table and plots.

Frequency Range:	Below 1 GHz	Above 1 GHz	Antenna-port conducted emission
Temperature:	21.3°C	21.3°C	24.5°C
Relative Humidity:	56 %	56 %	62 %
ATM Pressure:	100.1kPa	100.1kPa	100.2kPa
Test Date:	2025-07-28	2025-07-28	2025-07-24
Test Engineer:	Wlif Wu	Wlif Wu	Braylon Ma

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

1) 9 kHz ~30MHz

Pre-scan in parallel, ground-parallel and perpendicular of orientation of loop antenna, parallel is worst case.

Note: The maximum output power mode: EDR(8DPSK) Low channel was tested.

Project No.: 2507V04150E-RF

Test Mode: EDR 3DH5 2402MHz

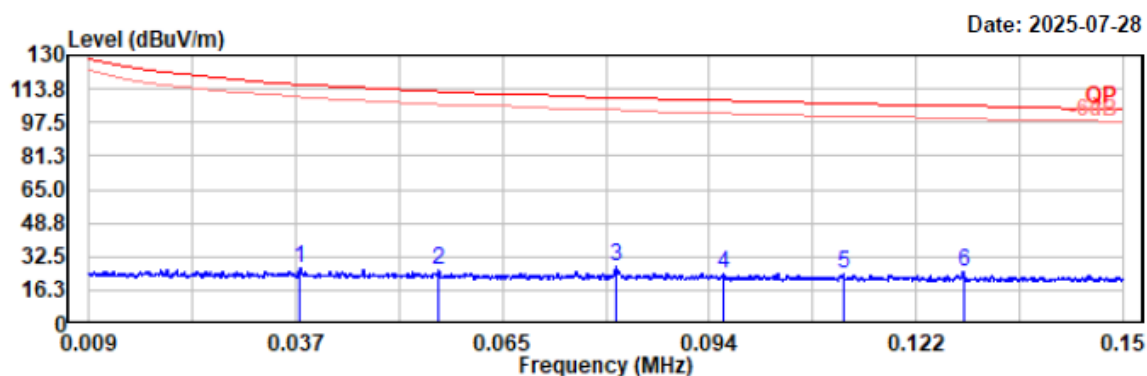
EUT Model: FAX916-B

Test distance: 3m

Temp/Humi/ATM: 21.3°C/56%/100.1kPa

Tested by: Wlif Wu

Power Source: DC 3.7V



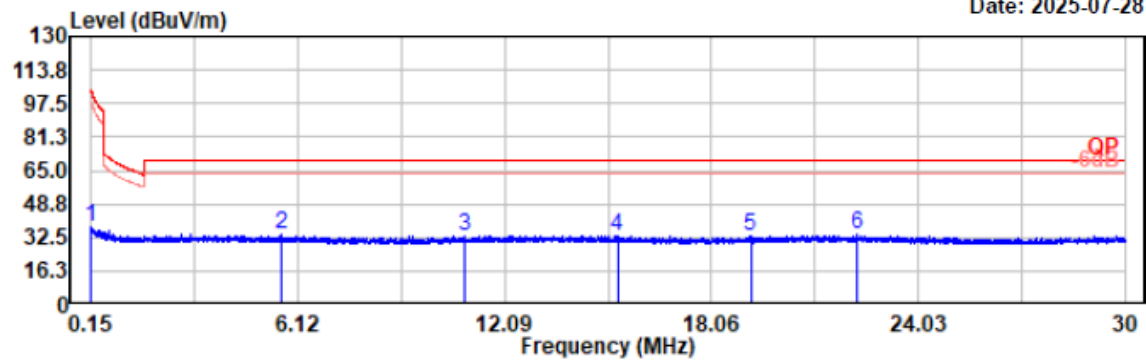
Condition: PK RBW:300Hz VBW:1kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
0.038	7.09	19.91	27.00	116.07	89.07	Peak
0.057	5.96	19.91	25.87	112.54	86.67	Peak
0.081	7.69	19.72	27.41	109.45	82.04	Peak
0.095	4.39	19.77	24.16	108.01	83.85	Peak
0.112	4.55	19.73	24.28	106.63	82.35	Peak
0.128	5.29	19.73	25.02	105.44	80.42	Peak

Project No.: 2507V04150E-RF
Test Mode: EDR 3DH5 2402MHz
EUT Model: FAX916-B
Test distance: 3m

Temp/Humi/ATM: 21.3°C/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.7V

Date: 2025-07-28



Condition: PK RBW:10kHz VBW:30kHz SWT:auto

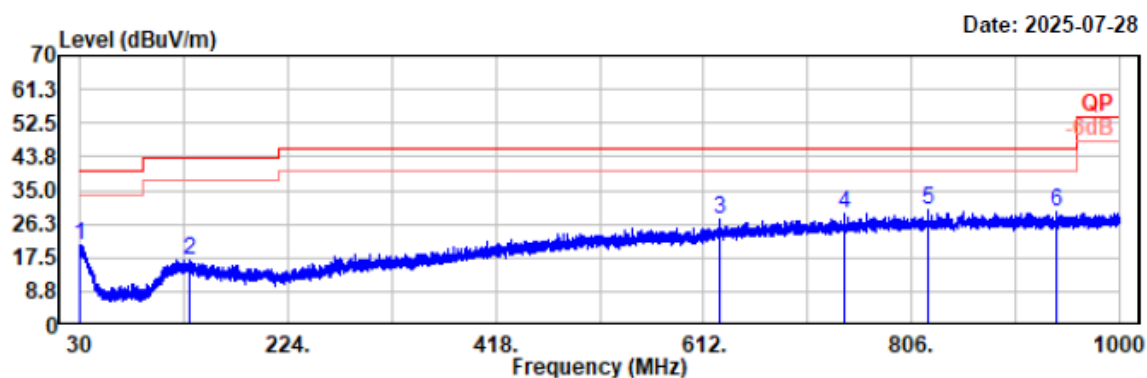
Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
0.159	17.73	19.72	37.45	103.58	66.13	Peak
5.663	14.41	19.77	34.18	69.54	35.36	Peak
10.935	13.84	19.71	33.55	69.54	35.99	Peak
15.344	13.79	19.78	33.57	69.54	35.97	Peak
19.191	13.09	20.04	33.13	69.54	36.41	Peak
22.239	13.69	20.14	33.83	69.54	35.71	Peak

2) 30MHz-1GHz

Note: The maximum output power mode: EDR(8DPSK) Low channel was tested.

Project No.: 2507V04150E-RF
Test Mode: EDR 3DH5 2402MHz
EUT Model: FAX916-B
Test distance: 3m

Temp/Humi/ATM: 21.3℃/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.7V

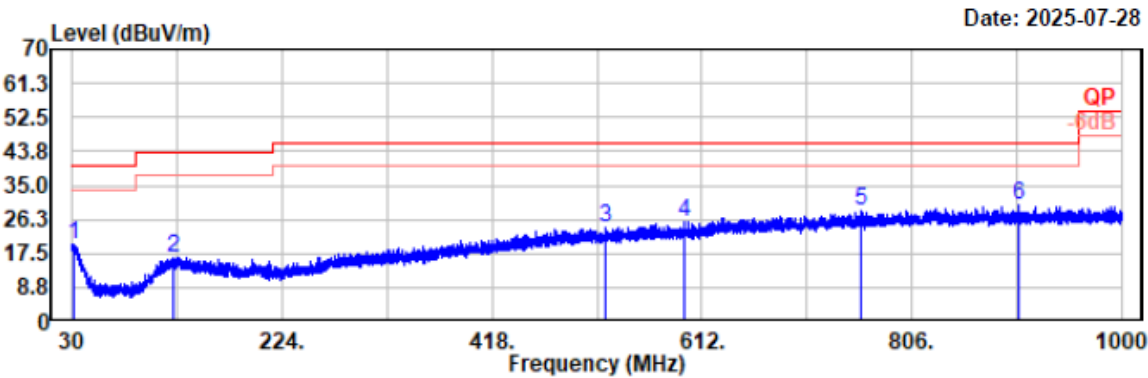


Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
30.00	26.35	-5.60	20.75	40.00	19.25	Horizontal	Peak
131.95	27.20	-10.09	17.11	43.50	26.39	Horizontal	Peak
627.13	28.66	-1.38	27.28	46.00	18.72	Horizontal	Peak
743.14	28.73	0.39	29.12	46.00	16.88	Horizontal	Peak
820.74	28.28	1.62	29.90	46.00	16.10	Horizontal	Peak
941.32	26.40	3.04	29.44	46.00	16.56	Horizontal	Peak

Project No.: 2507V04150E-RF
Test Mode: EDR 3DH5 2402MHz
EUT Model: FAX916-B
Test distance: 3m

Temp/Humi/ATM: 21.3℃/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.7V



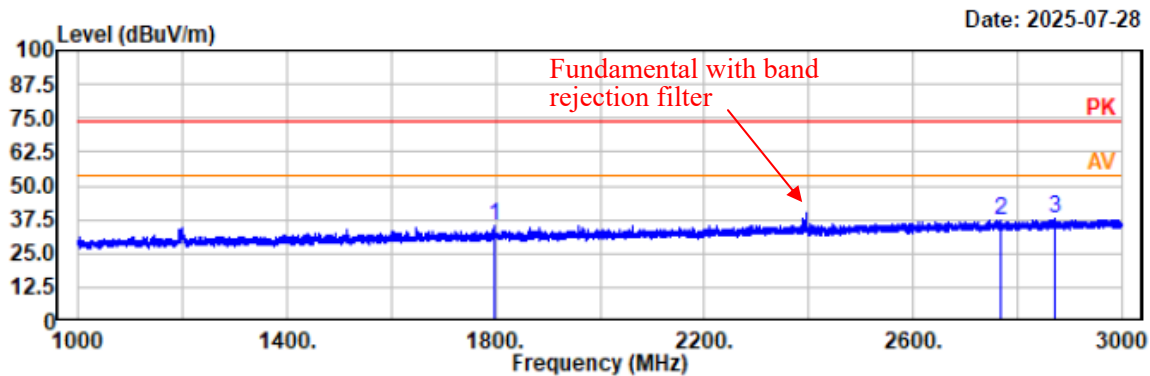
Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
30.87	25.75	-5.82	19.93	40.00	20.07	Vertical	Peak
124.09	26.55	-9.95	16.60	43.50	26.90	Vertical	Peak
523.25	27.37	-3.39	23.98	46.00	22.02	Vertical	Peak
595.61	28.06	-2.40	25.66	46.00	20.34	Vertical	Peak
758.28	28.10	0.55	28.65	46.00	17.35	Vertical	Peak
905.33	27.13	2.57	29.70	46.00	16.30	Vertical	Peak

3) 1 GHz-3 GHz

Project No.: 2507V04150E-RF
Test Mode: BDR DH5 2402MHz
EUT Model: FAX916-B
Test distance: 3m

Temp/Humi/ATM: 21.3°C/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.7V

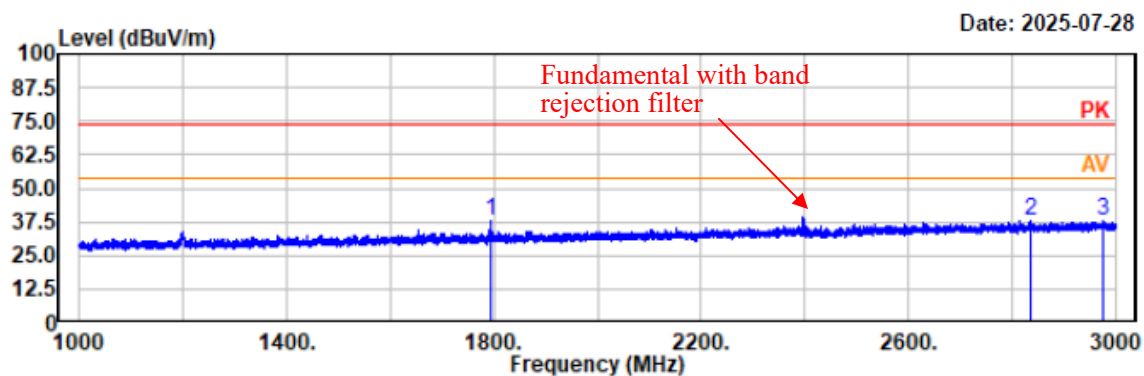


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1796.40	48.61	-13.24	35.37	74.00	38.63	horizontal	Peak
2767.80	47.31	-9.89	37.42	74.00	36.58	horizontal	Peak
2870.20	47.22	-9.60	37.62	74.00	36.38	horizontal	Peak

Project No.: 2507V04150E-RF
Test Mode: BDR DH5 2402MHz
EUT Model: FAX916-B
Test distance: 3m

Temp/Humi/ATM: 21.3°C/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.7V



Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1795.80	51.05	-13.25	37.80	74.00	36.20	vertical	Peak
2835.80	47.66	-9.67	37.99	74.00	36.01	vertical	Peak
2977.00	46.71	-9.06	37.65	74.00	36.35	vertical	Peak

Project No.: 2507V04150E-RF

Test Mode: BDR DH5 2441MHz

EUT Model: FAX916-B

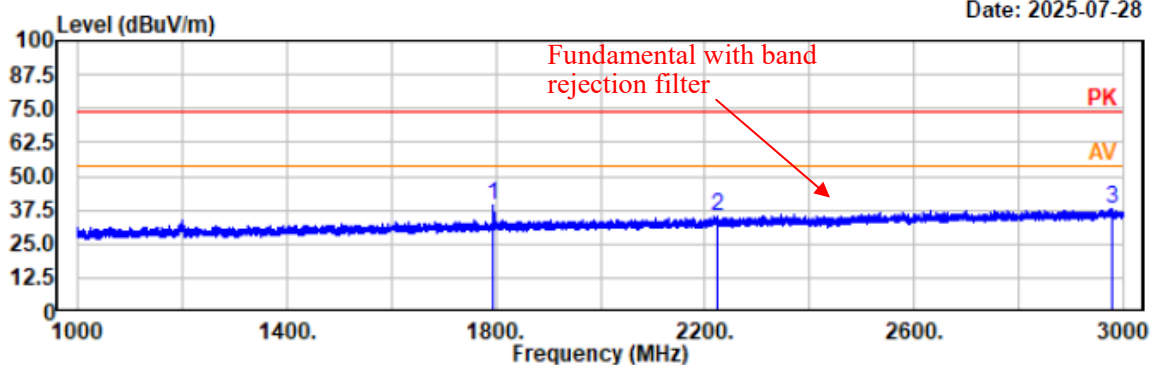
Test distance: 3m

Temp/Humi/ATM: 21.3°C/56%/100.1kPa

Tested by: Wlif Wu

Power Source: DC 3.7V

Date: 2025-07-28

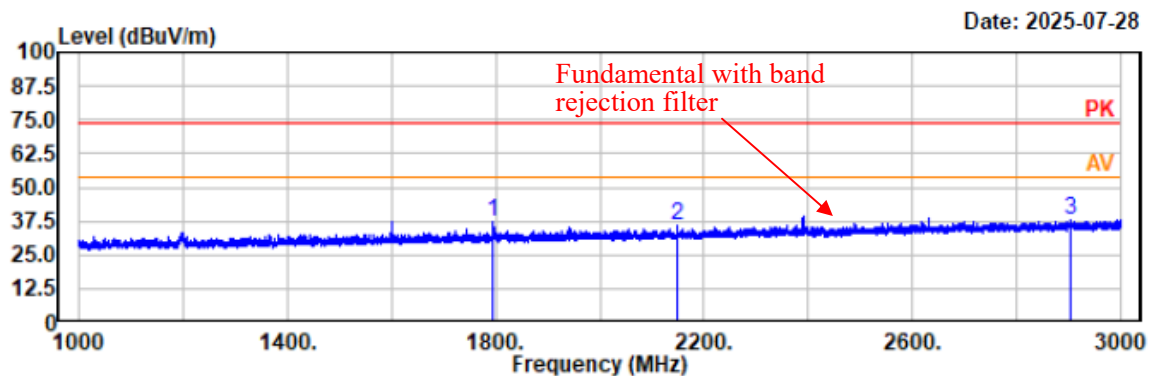


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1795.80	52.30	-13.25	39.05	74.00	34.95	horizontal	Peak
2223.40	46.79	-11.86	34.93	74.00	39.07	horizontal	Peak
2980.80	46.96	-9.05	37.91	74.00	36.09	horizontal	Peak

Project No.: 2507V04150E-RF
Test Mode: BDR DH5 2441MHz
EUT Model: FAX916-B
Test distance: 3m

Temp/Humi/ATM: 21.3°C/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.7V



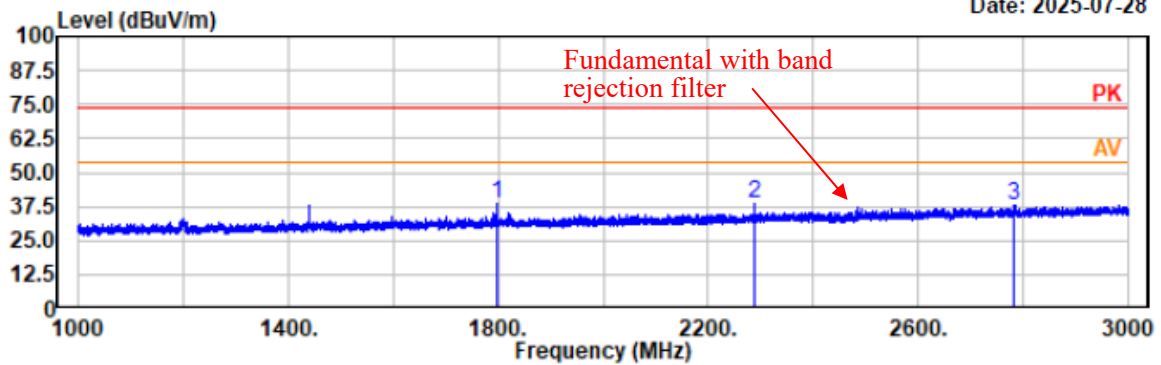
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1794.00	50.52	-13.25	37.27	74.00	36.73	vertical	Peak
2148.80	47.69	-12.14	35.55	74.00	38.45	vertical	Peak
2904.20	47.48	-9.52	37.96	74.00	36.04	vertical	Peak

Project No.: 2507V04150E-RF
Test Mode: BDR DH5 2480MHz
EUT Model: FAX916-B
Test distance: 3m

Temp/Humi/ATM: 21.3°C/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.7V

Date: 2025-07-28



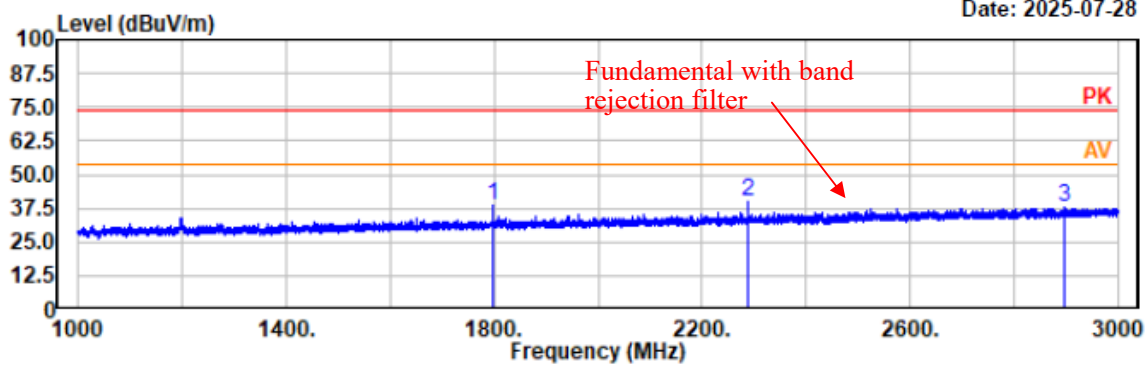
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1798.20	51.82	-13.23	38.59	74.00	35.41	horizontal	Peak
2287.80	50.27	-11.51	38.76	74.00	35.24	horizontal	Peak
2781.20	48.06	-9.85	38.21	74.00	35.79	horizontal	Peak

Project No.: 2507V04150E-RF
Test Mode: BDR DH5 2480MHz
EUT Model: FAX916-B
Test distance: 3m

Temp/Humi/ATM: 21.3°C/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.7V

Date: 2025-07-28

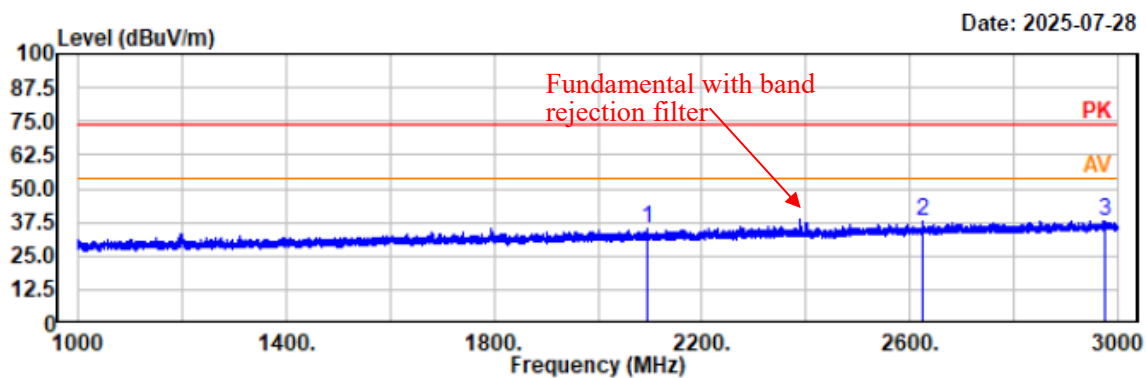


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1796.60	51.60	-13.24	38.36	74.00	35.64	vertical	Peak
2288.00	51.21	-11.51	39.70	74.00	34.30	vertical	Peak
2897.80	47.26	-9.55	37.71	74.00	36.29	vertical	Peak

Project No.: 2507V04150E-RF
Test Mode: EDR 2DH5 2402MHz
EUT Model: FAX916-B
Test distance: 3m

Temp/Humi/ATM: 21.3°C/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.7V

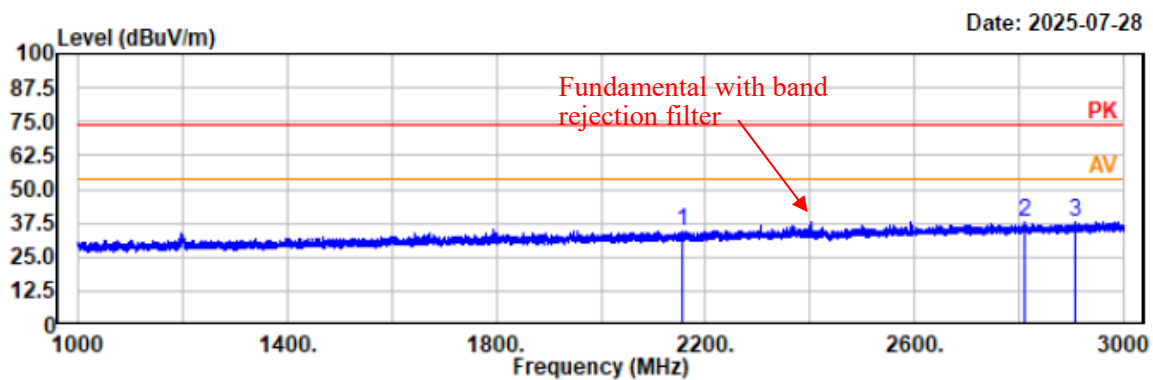


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2095.60	47.41	-12.25	35.16	74.00	38.84	horizontal	Peak
2623.80	48.35	-10.29	38.06	74.00	35.94	horizontal	Peak
2974.20	46.98	-9.07	37.91	74.00	36.09	horizontal	Peak

Project No.: 2507V04150E-RF
Test Mode: EDR 2DH5 2402MHz
EUT Model: FAX916-B
Test distance: 3m

Temp/Humi/ATM: 21.3°C/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.7V

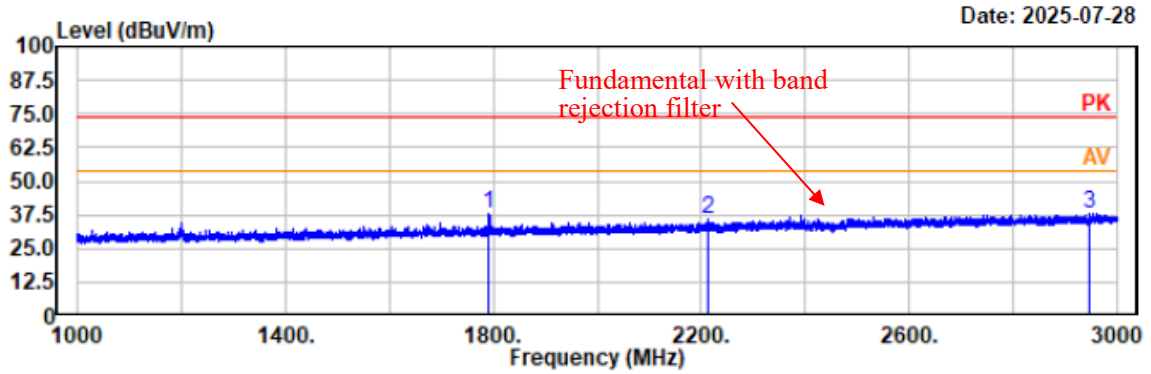


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2154.80	46.49	-12.11	34.38	74.00	39.62	vertical	Peak
2810.60	47.51	-9.76	37.75	74.00	36.25	vertical	Peak
2908.40	47.68	-9.49	38.19	74.00	35.81	vertical	Peak

Project No.: 2507V04150E-RF
Test Mode: EDR 2DH5 2441MHz
EUT Model: FAX916-B
Test distance: 3m

Temp/Humi/ATM: 21.3°C/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.7V



Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1792.20	51.10	-13.26	37.84	74.00	36.16	horizontal	Peak
2212.40	47.46	-11.91	35.55	74.00	38.45	horizontal	Peak
2947.80	47.48	-9.22	38.26	74.00	35.74	horizontal	Peak

Project No.: 2507V04150E-RF

Test Mode: EDR 2DH5 2441MHz

EUT Model: FAX916-B

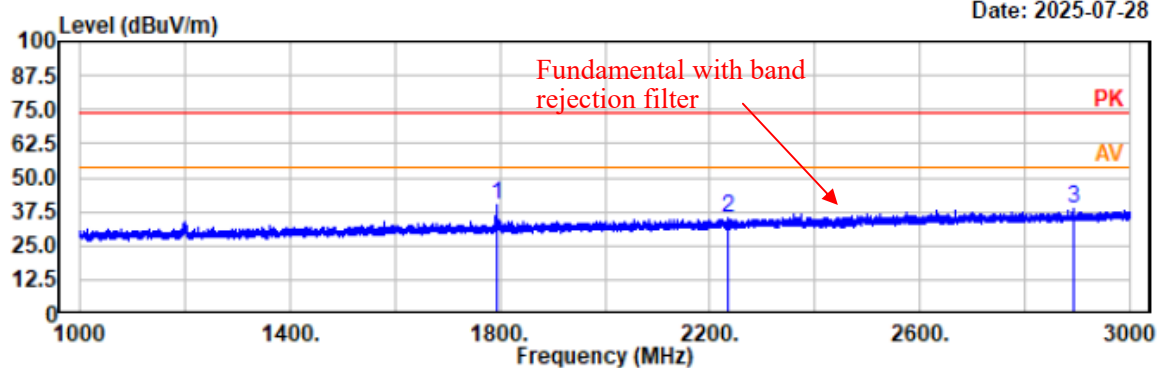
Test distance: 3m

Temp/Humi/ATM: 21.3°C/56%/100.1kPa

Tested by: Wlif Wu

Power Source: DC 3.7V

Date: 2025-07-28



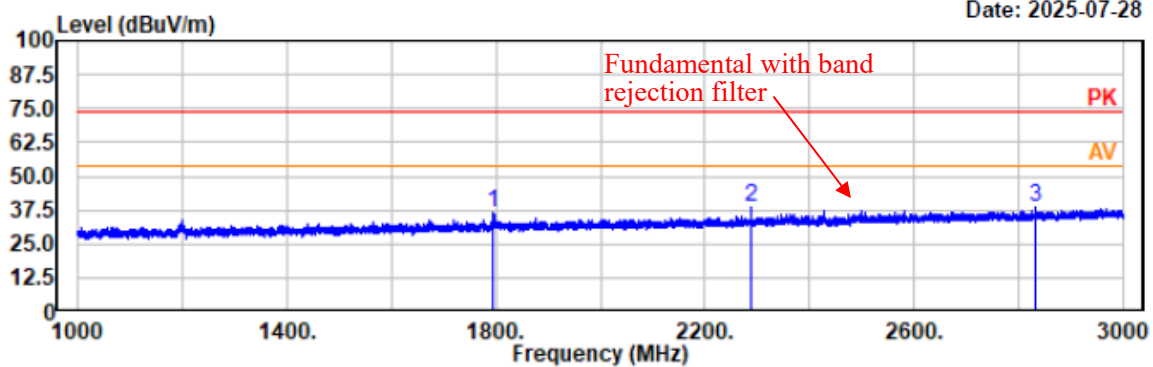
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1795.60	52.99	-13.25	39.74	74.00	34.26	vertical	Peak
2234.20	46.68	-11.84	34.84	74.00	39.16	vertical	Peak
2893.40	47.83	-9.55	38.28	74.00	35.72	vertical	Peak

Project No.: 2507V04150E-RF
Test Mode: EDR 2DH5 2480MHz
EUT Model: FAX916-B
Test distance: 3m

Temp/Humi/ATM: 21.3°C/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.7V

Date: 2025-07-28

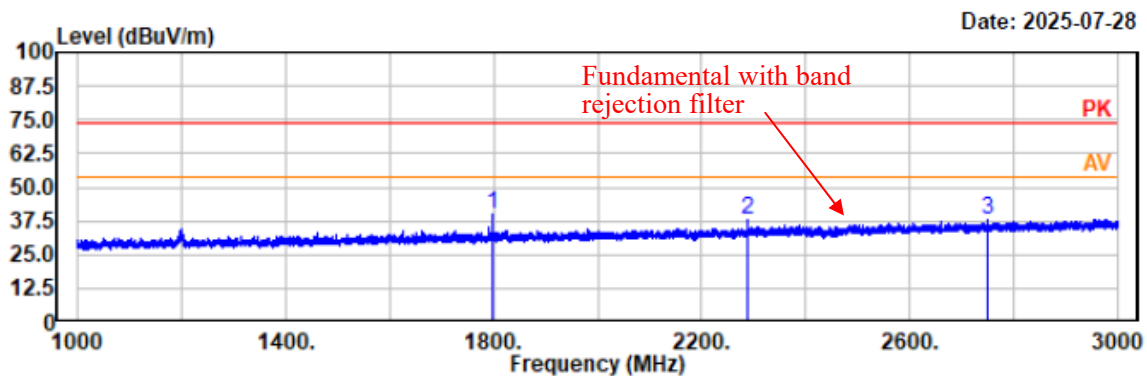


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1793.00	50.12	-13.25	36.87	74.00	37.13	horizontal	Peak
2288.20	49.96	-11.51	38.45	74.00	35.55	horizontal	Peak
2831.80	48.30	-9.68	38.62	74.00	35.38	horizontal	Peak

Project No.: 2507V04150E-RF
Test Mode: EDR 2DH5 2480MHz
EUT Model: FAX916-B
Test distance: 3m

Temp/Humi/ATM: 21.3°C/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.7V



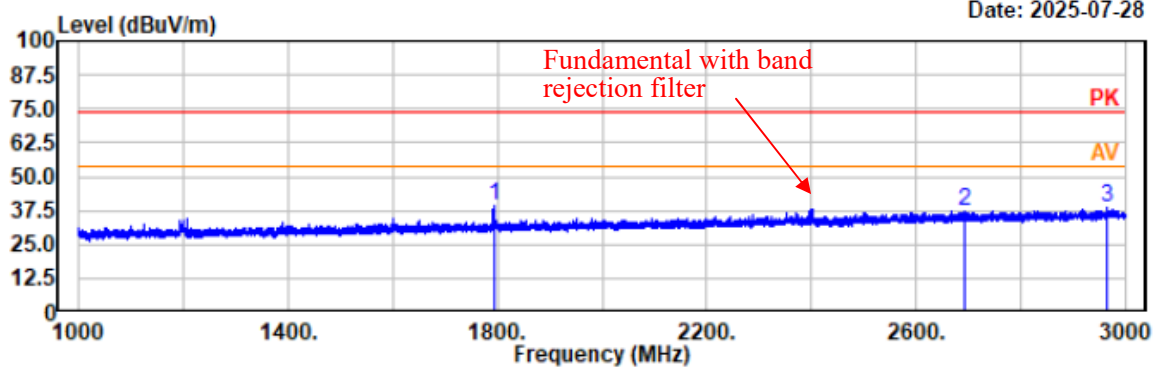
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1797.20	52.97	-13.24	39.73	74.00	34.27	vertical	Peak
2288.60	49.42	-11.51	37.91	74.00	36.09	vertical	Peak
2751.40	47.58	-9.93	37.65	74.00	36.35	vertical	Peak

Project No.: 2507V04150E-RF
Test Mode: EDR 3DH5 2402MHz
EUT Model: FAX916-B
Test distance: 3m

Temp/Humi/ATM: 21.3°C/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.7V

Date: 2025-07-28



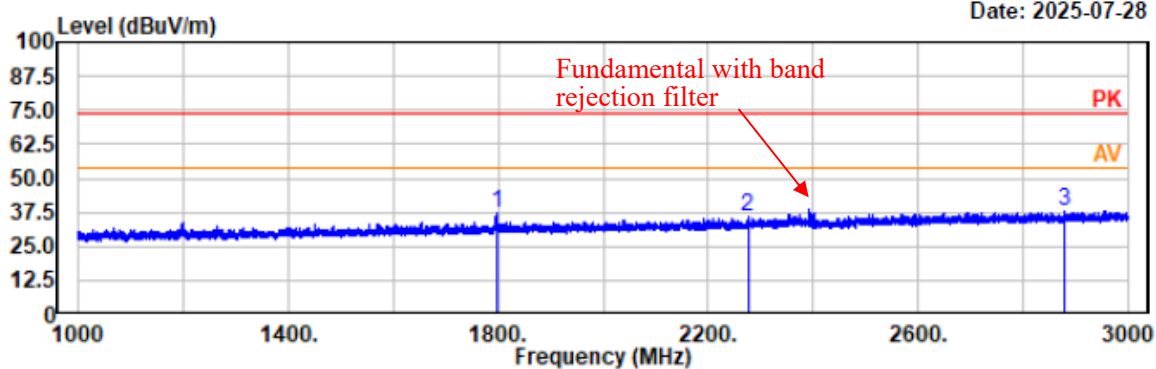
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1795.40	52.61	-13.25	39.36	74.00	34.64	horizontal	Peak
2691.60	47.38	-10.03	37.35	74.00	36.65	horizontal	Peak
2964.80	47.55	-9.12	38.43	74.00	35.57	horizontal	Peak

Project No.: 2507V04150E-RF
Test Mode: EDR 3DH5 2402MHz
EUT Model: FAX916-B
Test distance: 3m

Temp/Humi/ATM: 21.3°C/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.7V

Date: 2025-07-28



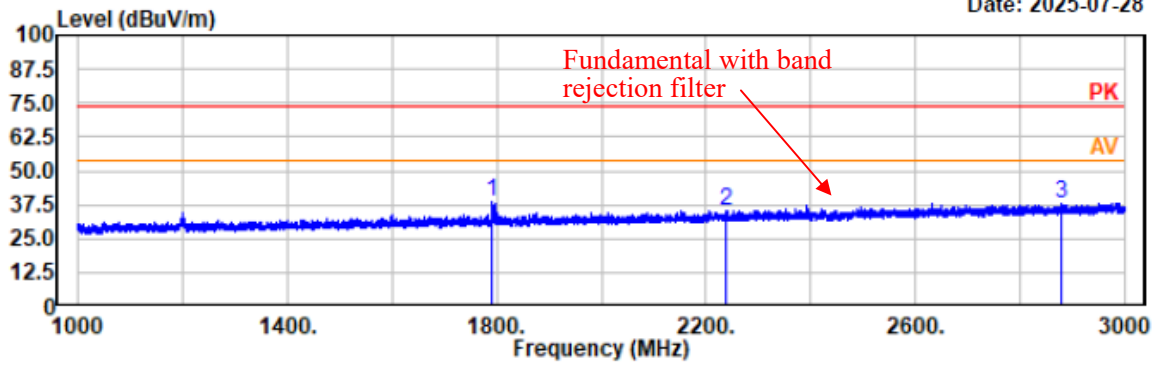
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1799.00	50.56	-13.23	37.33	74.00	36.67	vertical	Peak
2275.80	47.38	-11.61	35.77	74.00	38.23	vertical	Peak
2878.60	47.78	-9.58	38.20	74.00	35.80	vertical	Peak

Project No.: 2507V04150E-RF
Test Mode: EDR 3DH5 2441MHz
EUT Model: FAX916-B
Test distance: 3m

Temp/Humi/ATM: 21.3°C/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.7V

Date: 2025-07-28

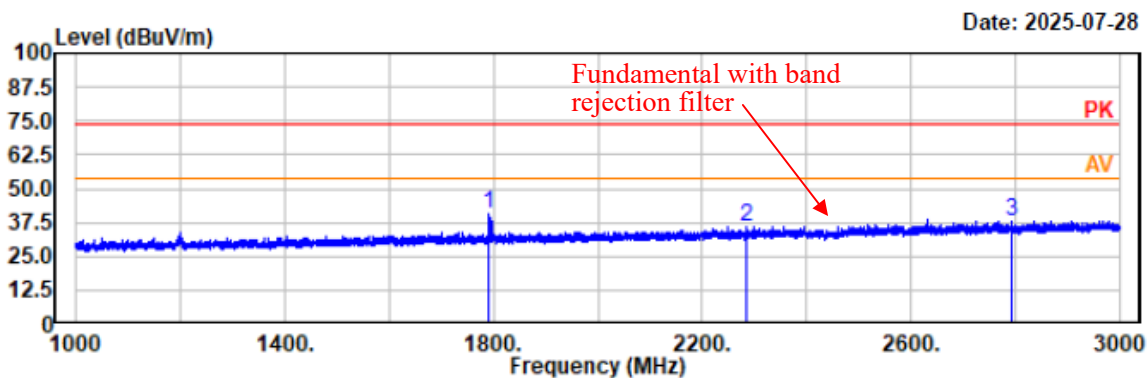


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1791.80	51.84	-13.26	38.58	74.00	35.42	horizontal	Peak
2238.20	47.21	-11.82	35.39	74.00	38.61	horizontal	Peak
2880.60	47.22	-9.58	37.64	74.00	36.36	horizontal	Peak

Project No.: 2507V04150E-RF
Test Mode: EDR 3DH5 2441MHz
EUT Model: FAX916-B
Test distance: 3m

Temp/Humi/ATM: 21.3°C/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.7V

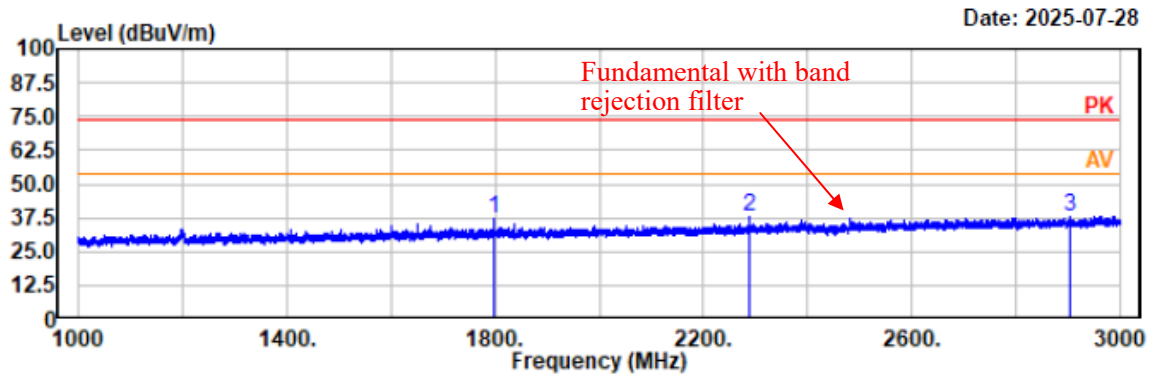


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1792.00	53.80	-13.26	40.54	74.00	33.46	vertical	Peak
2285.40	47.13	-11.53	35.60	74.00	38.40	vertical	Peak
2794.00	47.72	-9.80	37.92	74.00	36.08	vertical	Peak

Project No.: 2507V04150E-RF
Test Mode: EDR 3DH5 2480MHz
EUT Model: FAX916-B
Test distance: 3m

Temp/Humi/ATM: 21.3°C/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.7V



Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1798.60	50.30	-13.23	37.07	74.00	36.93	horizontal	Peak
2288.20	49.52	-11.51	38.01	74.00	35.99	horizontal	Peak
2905.00	47.28	-9.52	37.76	74.00	36.24	horizontal	Peak

Project No.: 2507V04150E-RF

Test Mode: EDR 3DH5 2480MHz

EUT Model: FAX916-B

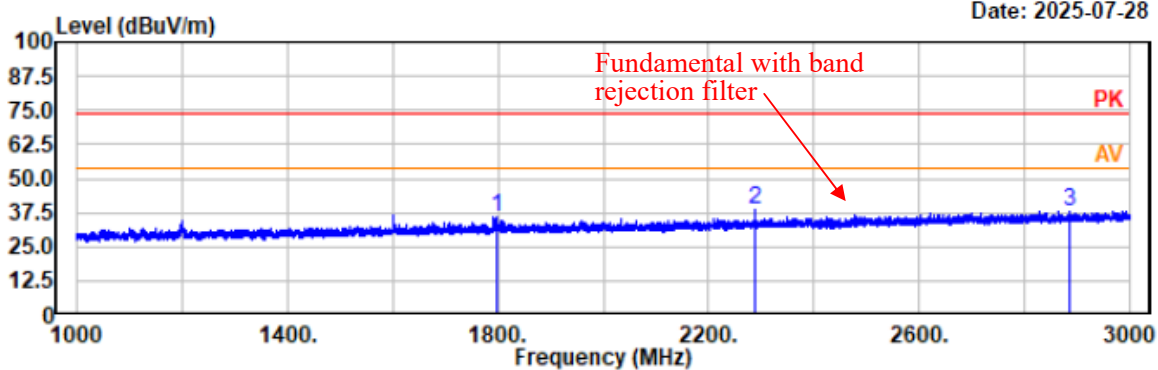
Test distance: 3m

Temp/Humi/ATM: 21.3°C/56%/100.1kPa

Tested by: Wlif Wu

Power Source: DC 3.7V

Date: 2025-07-28



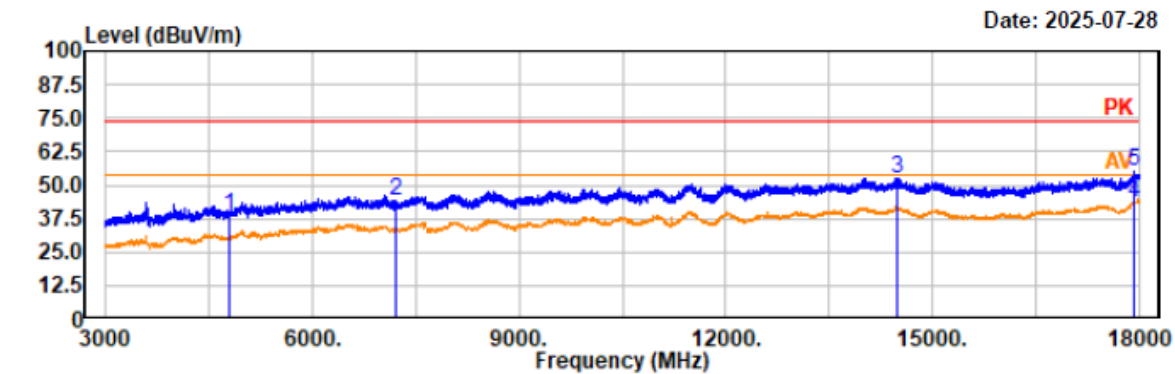
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1798.80	49.22	-13.23	35.99	74.00	38.01	vertical	Peak
2287.80	49.82	-11.51	38.31	74.00	35.69	vertical	Peak
2887.40	47.51	-9.58	37.93	74.00	36.07	vertical	Peak

4) 3 GHz-18 GHz

Project No.: 2507V04150E-RF
Test Mode: BDR DH5 2402MHz
EUT Model: FAX916-B
Test distance: 3m

Temp/Humi/ATM: 21.3°C/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.7V



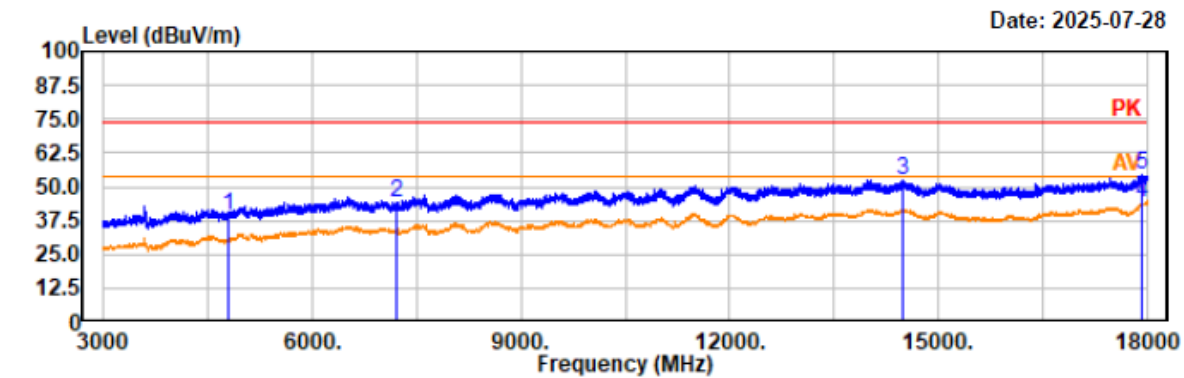
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4804.00	44.10	-5.24	38.86	74.00	35.14	horizontal	Peak
7206.00	46.60	-2.55	44.05	74.00	29.95	horizontal	Peak
14478.00	47.58	5.11	52.69	74.00	21.31	horizontal	Peak
17937.00	36.37	6.84	43.21	54.00	10.79	horizontal	Average
17937.00	48.26	6.84	55.10	74.00	18.90	horizontal	Peak

Project No.: 2507V04150E-RF
Test Mode: BDR DH5 2402MHz
EUT Model: FAX916-B
Test distance: 3m

Temp/Humi/ATM: 21.3°C/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.7V



Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4804.00	44.69	-5.24	39.45	74.00	34.55	vertical	Peak
7206.00	46.89	-2.55	44.34	74.00	29.66	vertical	Peak
14488.50	47.21	5.08	52.29	74.00	21.71	vertical	Peak
17925.00	36.98	6.84	43.82	54.00	10.18	vertical	Average
17925.00	47.49	6.84	54.33	74.00	19.67	vertical	Peak

Project No.: 2507V04150E-RF

Test Mode: BDR DH5 2441MHz

EUT Model: FAX916-B

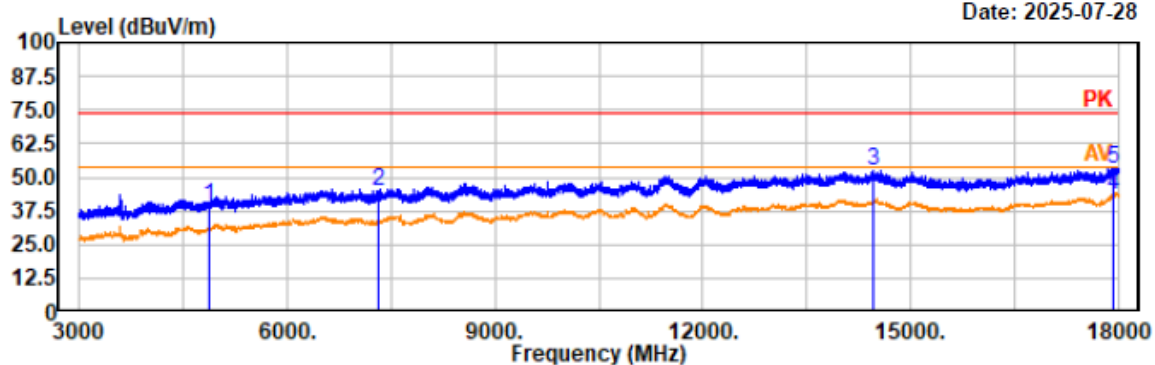
Test distance: 3m

Temp/Humi/ATM: 21.3°C/56%/100.1kPa

Tested by: Wlif Wu

Power Source: DC 3.7V

Date: 2025-07-28



Trace: 1

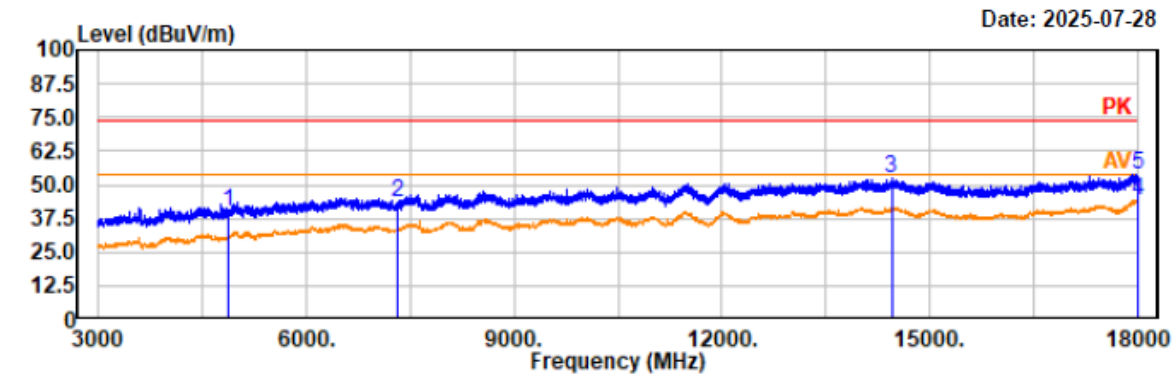
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4882.00	44.94	-5.31	39.63	74.00	34.37	horizontal	Peak
7323.00	47.36	-2.24	45.12	74.00	28.88	horizontal	Peak
14464.50	47.06	5.13	52.19	74.00	21.81	horizontal	Peak
17929.50	36.47	6.84	43.31	54.00	10.69	horizontal	Average
17929.50	46.39	6.84	53.23	74.00	20.77	horizontal	Peak

Project No.: 2507V04150E-RF
Test Mode: BDR DH5 2441MHz
EUT Model: FAX916-B
Test distance: 3m

Temp/Humi/ATM: 21.3°C/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.7V



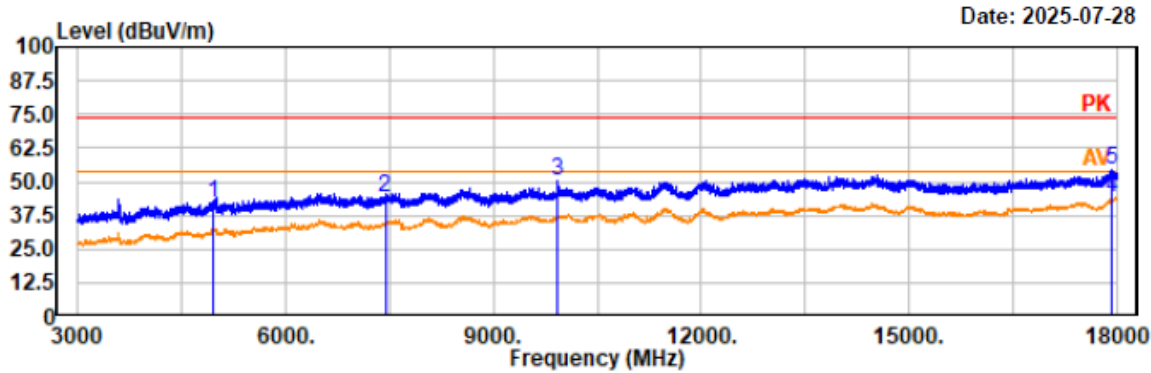
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4882.00	45.19	-5.31	39.88	74.00	34.12	vertical	Peak
7323.00	45.49	-2.24	43.25	74.00	30.75	vertical	Peak
14448.00	47.23	5.15	52.38	74.00	21.62	vertical	Peak
17999.99	37.07	6.91	43.98	54.00	10.02	vertical	Average
17999.99	47.10	6.91	54.01	74.00	19.99	vertical	Peak

Project No.: 2507V04150E-RF
Test Mode: BDR DH5 2480MHz
EUT Model: FAX916-B
Test distance: 3m

Temp/Humi/ATM: 21.3°C/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.7V



Trace: 1
Condition: PK RBW:1MHz VBW:3MHz SWT:auto
 AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4960.00	47.52	-5.11	42.41	74.00	31.59	horizontal	Peak
7440.00	46.05	-2.03	44.02	74.00	29.98	horizontal	Peak
9921.00	49.25	1.36	50.61	74.00	23.39	horizontal	Peak
17926.50	36.96	6.84	43.80	54.00	10.20	horizontal	Average
17926.50	47.43	6.84	54.27	74.00	19.73	horizontal	Peak

Project No.: 2507V04150E-RF

Test Mode: BDR DH5 2480MHz

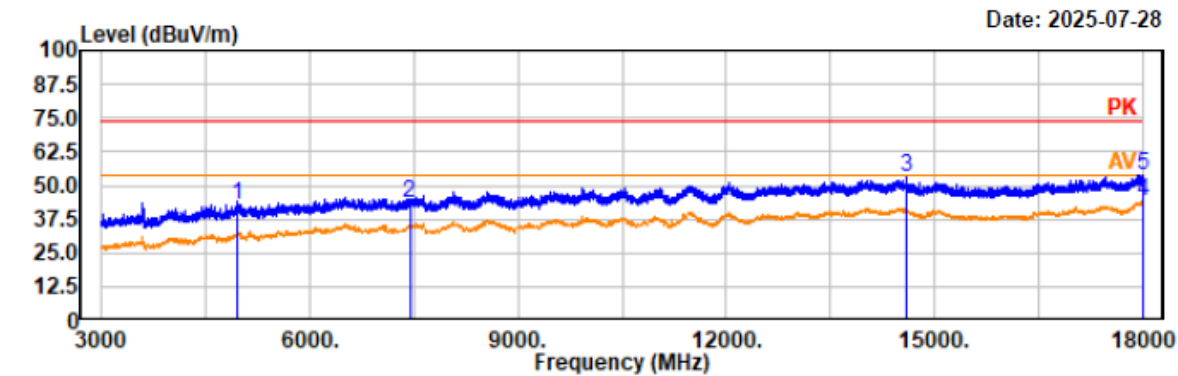
EUT Model: FAX916-B

Test distance: 3m

Temp/Humi/ATM: 21.3°C/56%/100.1kPa

Tested by: Wlif Wu

Power Source: DC 3.7V



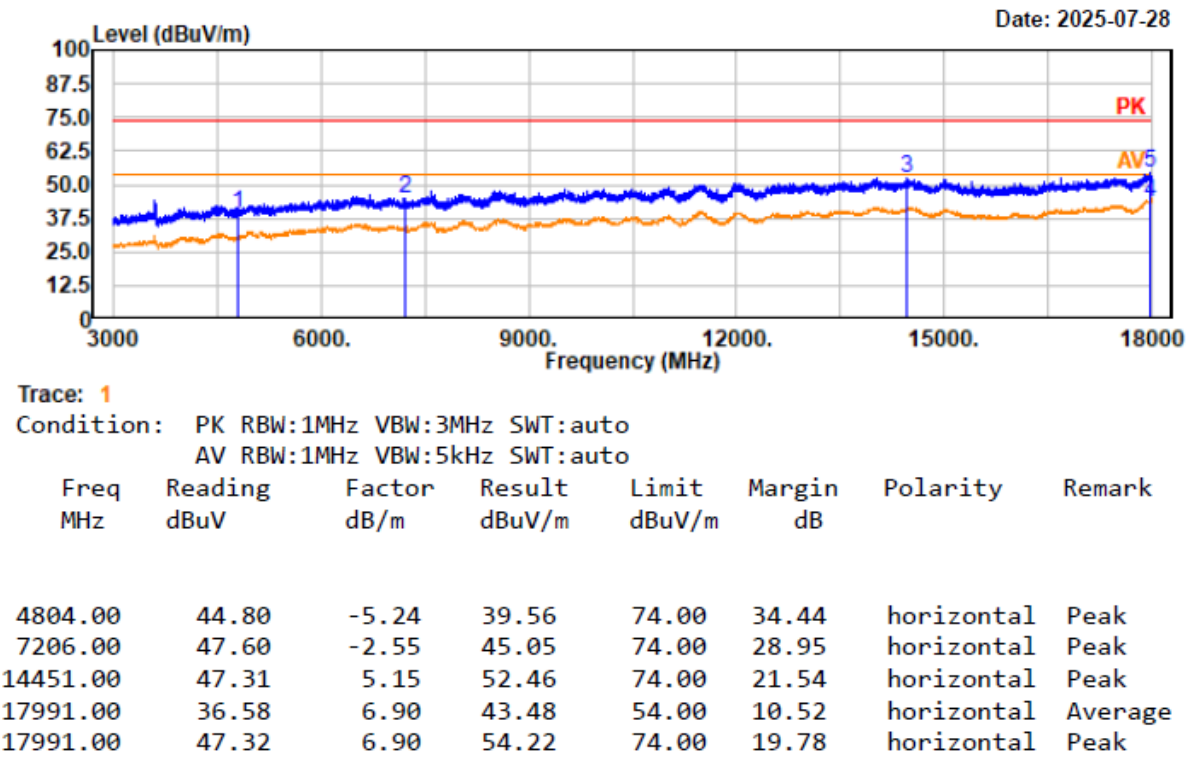
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4960.00	47.54	-5.11	42.43	74.00	31.57	vertical	Peak
7440.00	45.44	-2.03	43.41	74.00	30.59	vertical	Peak
14589.00	47.94	5.01	52.95	74.00	21.05	vertical	Peak
17992.50	37.24	6.91	44.15	54.00	9.85	vertical	Average
17992.50	46.99	6.90	53.89	74.00	20.11	vertical	Peak

Project No.: 2507V04150E-RF
Test Mode: EDR 2DH5 2402MHz
EUT Model: FAX916-B
Test distance: 3m

Temp/Humi/ATM: 21.3°C/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.7V



Project No.: 2507V04150E-RF

Test Mode: EDR 2DH5 2402MHz

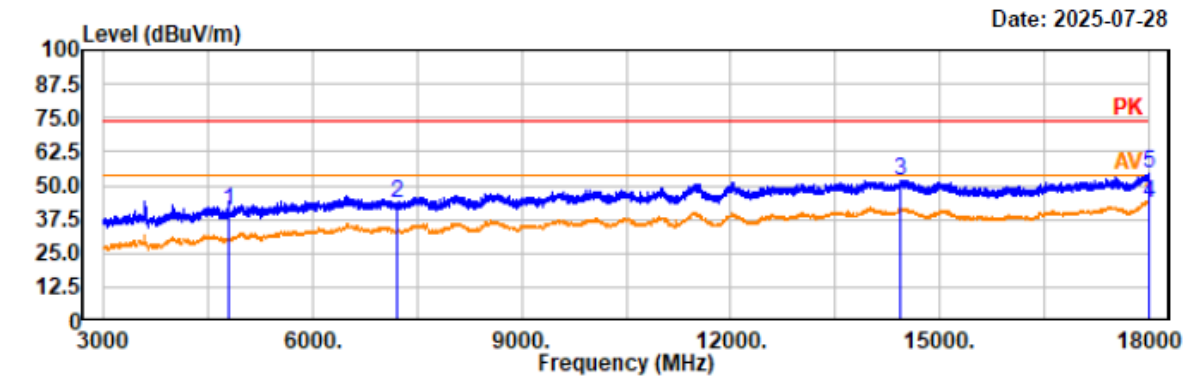
EUT Model: FAX916-B

Test distance: 3m

Temp/Humi/ATM: 21.3°C/56%/100.1kPa

Tested by: Wlif Wu

Power Source: DC 3.7V



Trace: 1

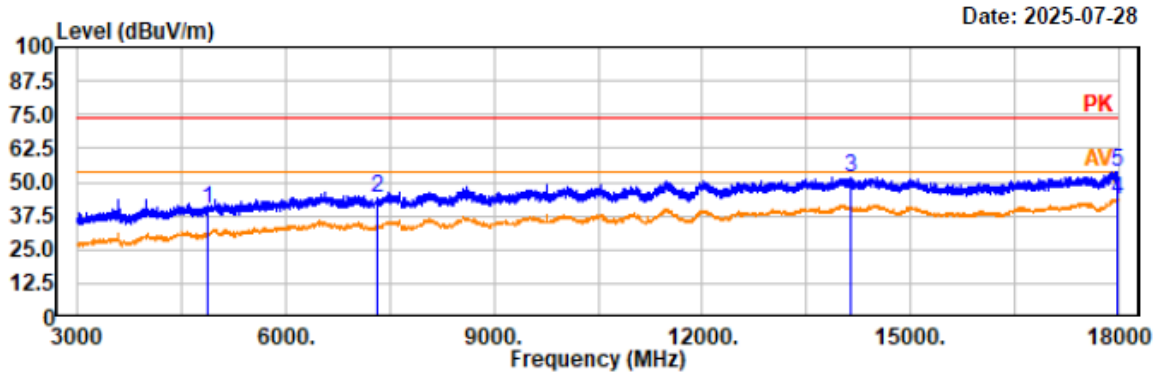
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4804.00	45.79	-5.24	40.55	74.00	33.45	vertical	Peak
7206.00	46.19	-2.55	43.64	74.00	30.36	vertical	Peak
14440.50	46.86	5.17	52.03	74.00	21.97	vertical	Peak
17995.50	36.49	6.91	43.40	54.00	10.60	vertical	Average
17995.50	47.25	6.91	54.16	74.00	19.84	vertical	Peak

Project No.: 2507V04150E-RF
Test Mode: EDR 2DH5 2441MHz
EUT Model: FAX916-B
Test distance: 3m

Temp/Humi/ATM: 21.3°C/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.7V



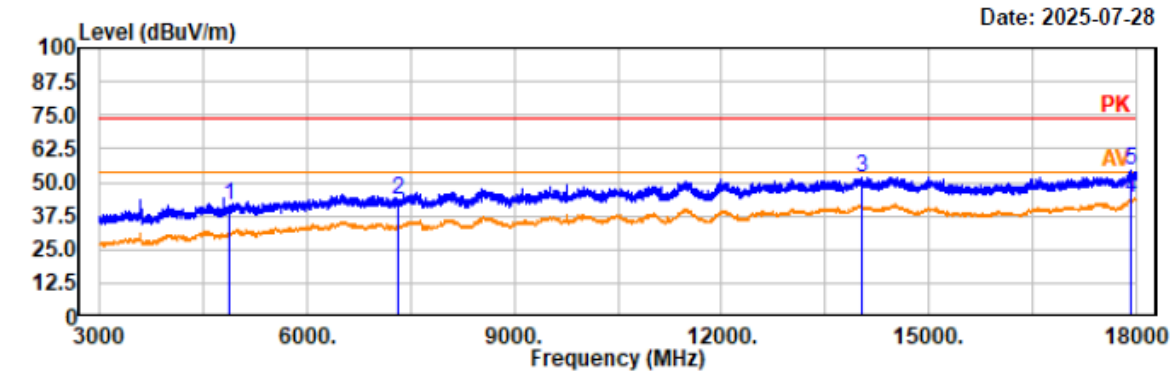
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4882.00	45.61	-5.31	40.30	74.00	33.70	horizontal	Peak
7323.00	46.17	-2.24	43.93	74.00	30.07	horizontal	Peak
14151.00	46.43	5.35	51.78	74.00	22.22	horizontal	Peak
17986.50	36.83	6.89	43.72	54.00	10.28	horizontal	Average
17986.50	47.09	6.89	53.98	74.00	20.02	horizontal	Peak

Project No.: 2507V04150E-RF
Test Mode: EDR 2DH5 2441MHz
EUT Model: FAX916-B
Test distance: 3m

Temp/Humi/ATM: 21.3°C/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.7V

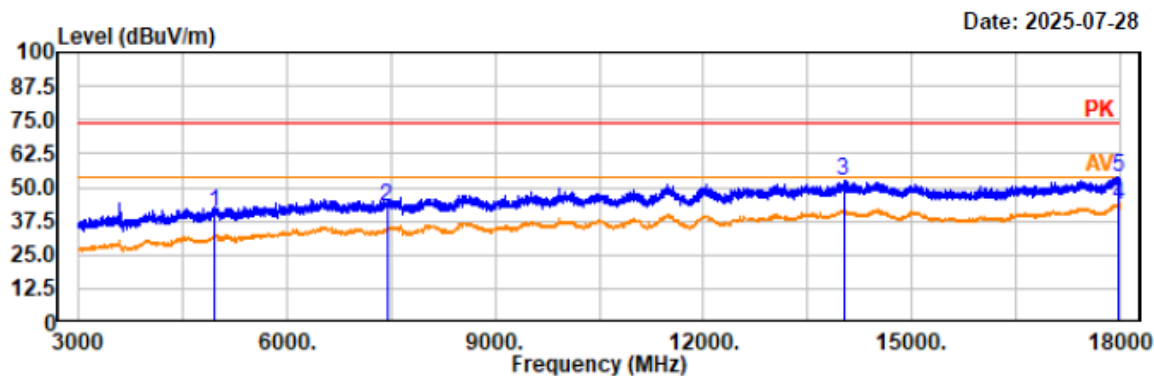


Trace: 1
Condition: PK RBW:1MHz VBW:3MHz SWT:auto
 AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4882.00	46.76	-5.31	41.45	74.00	32.55	vertical	Peak
7323.00	45.41	-2.24	43.17	74.00	30.83	vertical	Peak
14026.50	46.62	5.23	51.85	74.00	22.15	vertical	Peak
17914.50	37.21	6.81	44.02	54.00	9.98	vertical	Average
17914.50	47.61	6.81	54.42	74.00	19.58	vertical	Peak

Project No.: 2507V04150E-RF
Test Mode: EDR 2DH5 2480MHz
EUT Model: FAX916-B
Test distance: 3m

Temp/Humi/ATM: 21.3°C/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.7V



Trace: 1

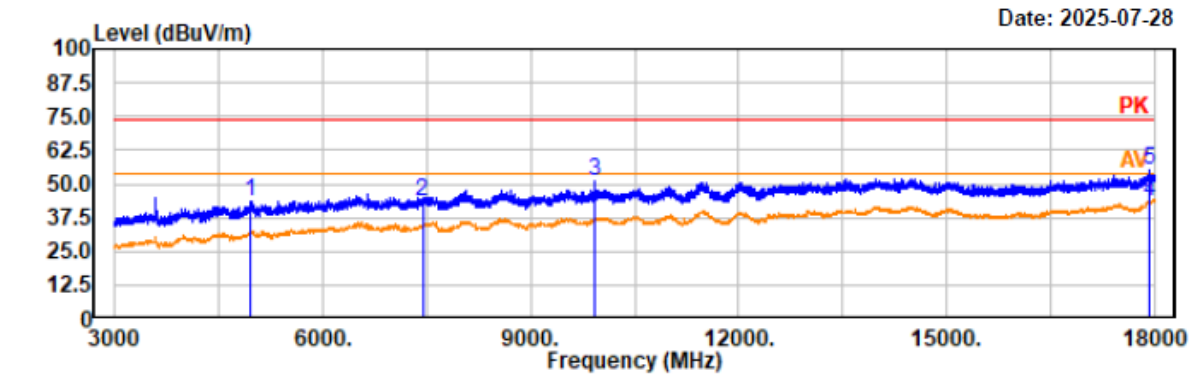
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4960.00	45.91	-5.11	40.80	74.00	33.20	horizontal	Peak
7440.00	45.13	-2.03	43.10	74.00	30.90	horizontal	Peak
14017.50	47.38	5.22	52.60	74.00	21.40	horizontal	Peak
17976.00	36.71	6.91	43.62	54.00	10.38	horizontal	Average
17976.00	47.01	6.89	53.90	74.00	20.10	horizontal	Peak

Project No.: 2507V04150E-RF
Test Mode: EDR 2DH5 2480MHz
EUT Model: FAX916-B
Test distance: 3m

Temp/Humi/ATM: 21.3°C/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.7V



Trace: 1

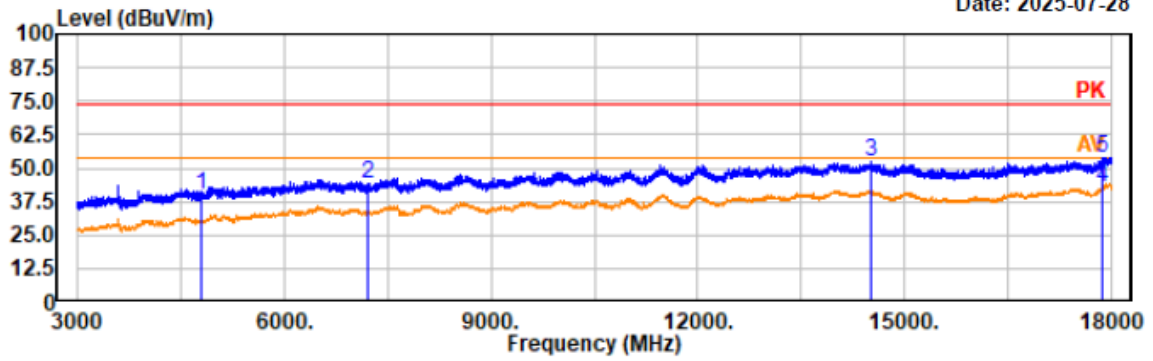
Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4960.00	48.68	-5.11	43.57	74.00	30.43	vertical	Peak
7440.00	45.62	-2.03	43.59	74.00	30.41	vertical	Peak
9921.00	49.63	1.36	50.99	74.00	23.01	vertical	Peak
17917.50	36.52	6.82	43.34	54.00	10.66	vertical	Average
17917.50	48.44	6.82	55.26	74.00	18.74	vertical	Peak

Project No.: 2507V04150E-RF
Test Mode: EDR 3DH5 2402MHz
EUT Model: FAX916-B
Test distance: 3m

Temp/Humi/ATM: 21.3°C/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.7V

Date: 2025-07-28



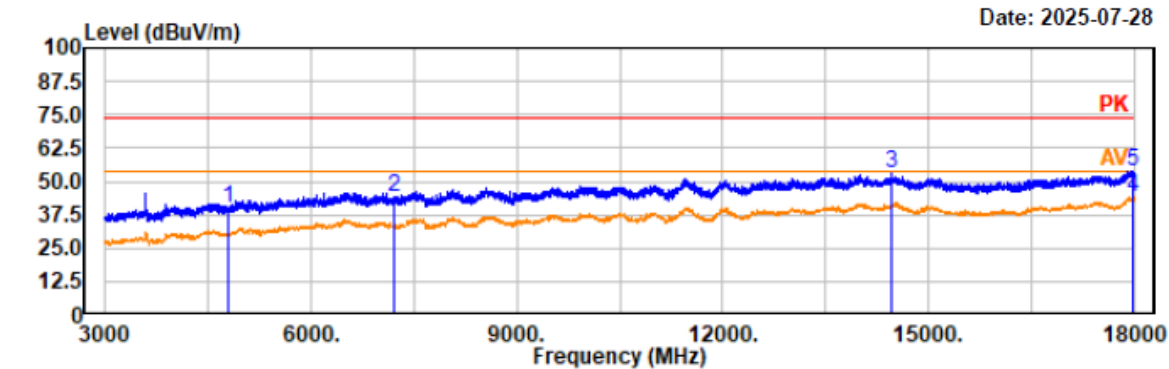
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4804.00	44.91	-5.24	39.67	74.00	34.33	horizontal	Peak
7206.00	46.78	-2.55	44.23	74.00	29.77	horizontal	Peak
14512.50	47.16	5.07	52.23	74.00	21.77	horizontal	Peak
17877.00	35.80	6.73	42.53	54.00	11.47	horizontal	Average
17877.00	47.35	6.73	54.08	74.00	19.92	horizontal	Peak

Project No.: 2507V04150E-RF
Test Mode: EDR 3DH5 2402MHz
EUT Model: FAX916-B
Test distance: 3m

Temp/Humi/ATM: 21.3°C/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.7V

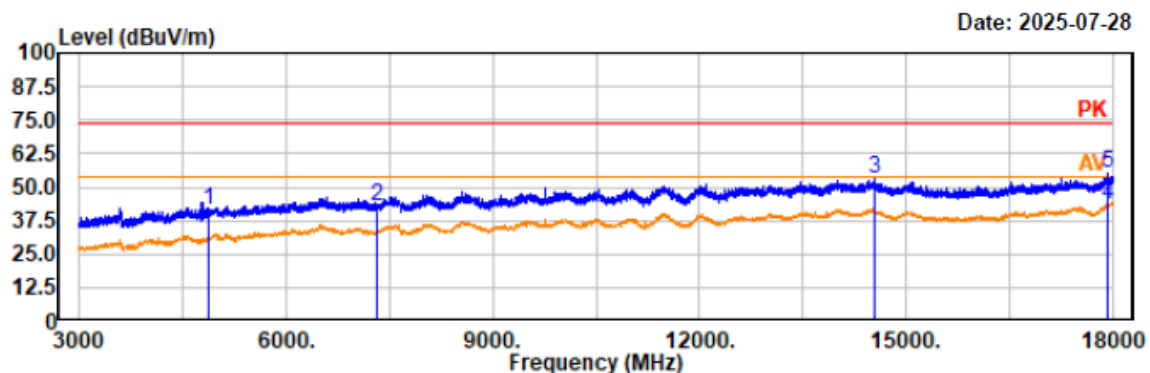


Trace: 1
Condition: PK RBW:1MHz VBW:3MHz SWT:auto
 AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4804.00	44.96	-5.24	39.72	74.00	34.28	vertical	Peak
7206.00	46.62	-2.55	44.07	74.00	29.93	vertical	Peak
14469.00	48.01	5.12	53.13	74.00	20.87	vertical	Peak
17967.00	37.27	6.88	44.15	54.00	9.85	vertical	Average
17967.00	46.69	6.88	53.57	74.00	20.43	vertical	Peak

Project No.: 2507V04150E-RF
Test Mode: EDR 3DH5 2441MHz
EUT Model: FAX916-B
Test distance: 3m

Temp/Humi/ATM: 21.3°C/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.7V



Trace: 1

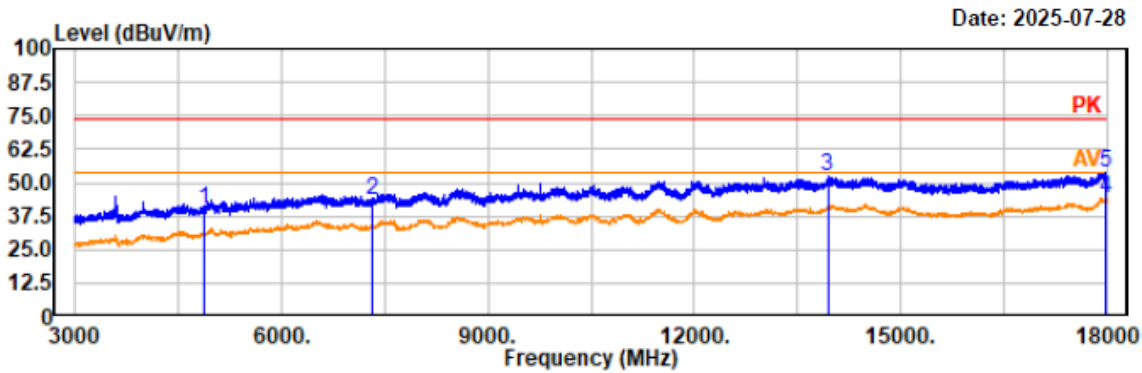
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4882.00	46.91	-5.31	41.60	74.00	32.40	horizontal	Peak
7323.00	44.68	-2.24	42.44	74.00	31.56	horizontal	Peak
14532.00	47.81	5.05	52.86	74.00	21.14	horizontal	Peak
17919.00	36.54	6.82	43.36	54.00	10.64	horizontal	Average
17919.00	48.12	6.82	54.94	74.00	19.06	horizontal	Peak

Project No.: 2507V04150E-RF
Test Mode: EDR 3DH5 2441MHz
EUT Model: FAX916-B
Test distance: 3m

Temp/Humi/ATM: 21.3°C/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.7V



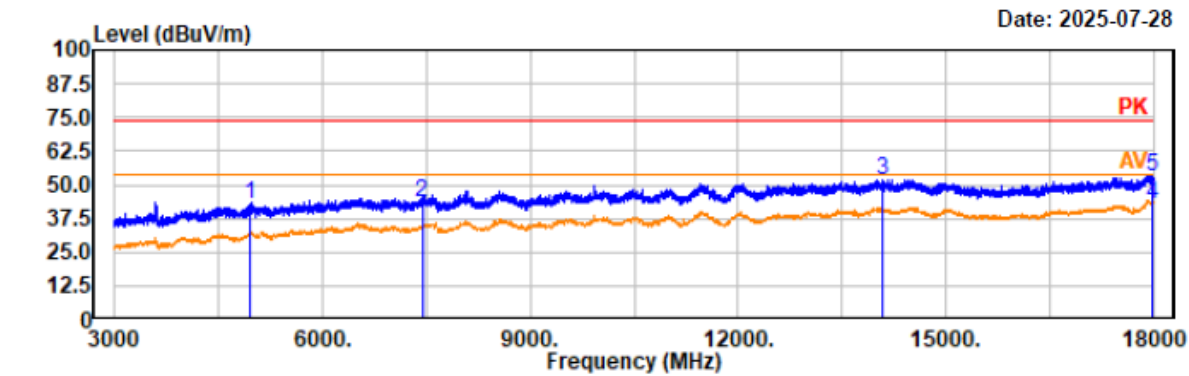
Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4882.00	45.08	-5.31	39.77	74.00	34.23	vertical	Peak
7323.00	45.48	-2.24	43.24	74.00	30.76	vertical	Peak
13938.00	47.00	5.19	52.19	74.00	21.81	vertical	Peak
17989.50	36.91	6.91	43.82	54.00	10.18	vertical	Average
17989.50	46.73	6.90	53.63	74.00	20.37	vertical	Peak

Project No.: 2507V04150E-RF
Test Mode: EDR 3DH5 2480MHz
EUT Model: FAX916-B
Test distance: 3m

Temp/Humi/ATM: 21.3°C/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.7V



Trace: 1

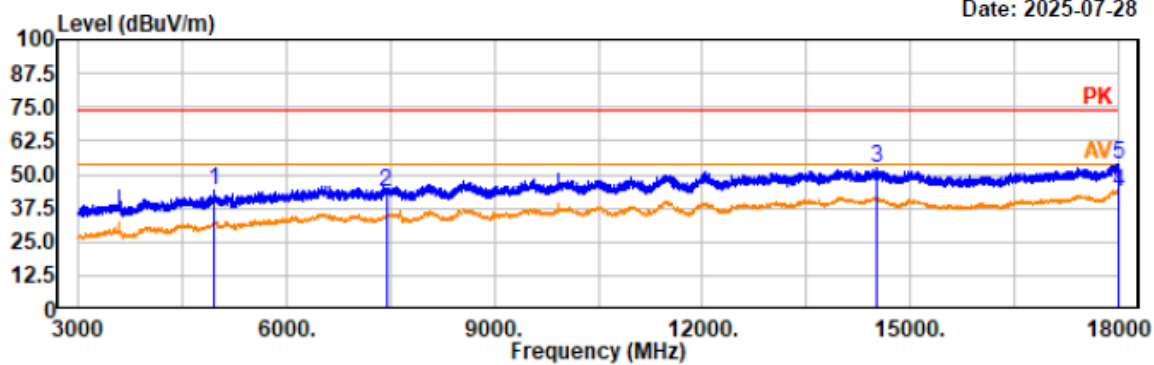
Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4960.00	47.64	-5.11	42.53	74.00	31.47	horizontal	Peak
7440.00	45.25	-2.03	43.22	74.00	30.78	horizontal	Peak
14092.50	46.40	5.33	51.73	74.00	22.27	horizontal	Peak
17974.50	35.71	6.91	42.62	54.00	11.38	horizontal	Average
17974.50	46.34	6.88	53.22	74.00	20.78	horizontal	Peak

Project No.: 2507V04150E-RF
Test Mode: EDR 3DH5 2480MHz
EUT Model: FAX916-B
Test distance: 3m

Temp/Humi/ATM: 21.3°C/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.7V

Date: 2025-07-28



Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4960.00	49.01	-5.11	43.90	74.00	30.10	vertical	Peak
7440.00	45.26	-2.03	43.23	74.00	30.77	vertical	Peak
14502.00	47.03	5.07	52.10	74.00	21.90	vertical	Peak
17995.50	36.83	6.91	43.74	54.00	10.26	vertical	Average
17995.50	47.03	6.91	53.94	74.00	20.06	vertical	Peak

5) 18 GHz-25 GHz

Note: The maximum output power mode: EDR(8DPSK) Low channel was tested.

Project No.: 2507V04150E-RF

Test Mode: EDR 3DH5 2402MHz

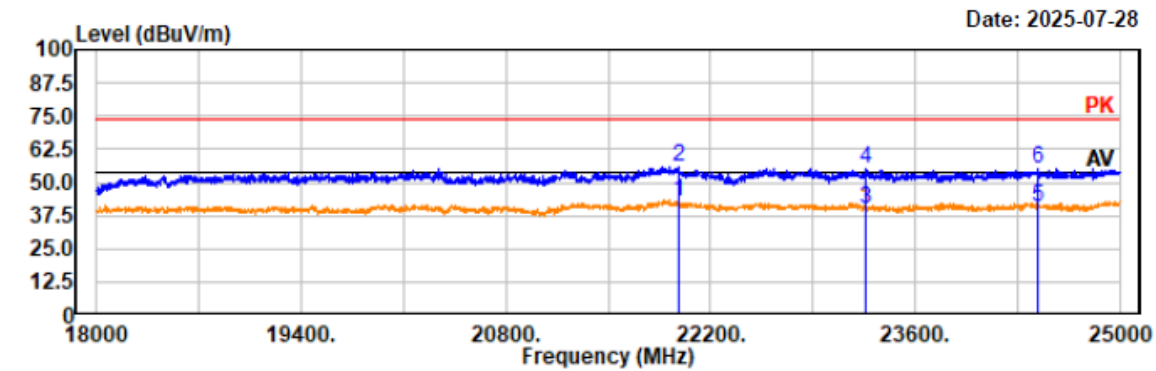
EUT Model: FAX916-B

Test distance: 1.5m

Temp/Humi/ATM: 21.3°C/56%/100.1kPa

Tested by: Wlif Wu

Power Source: DC 3.7V

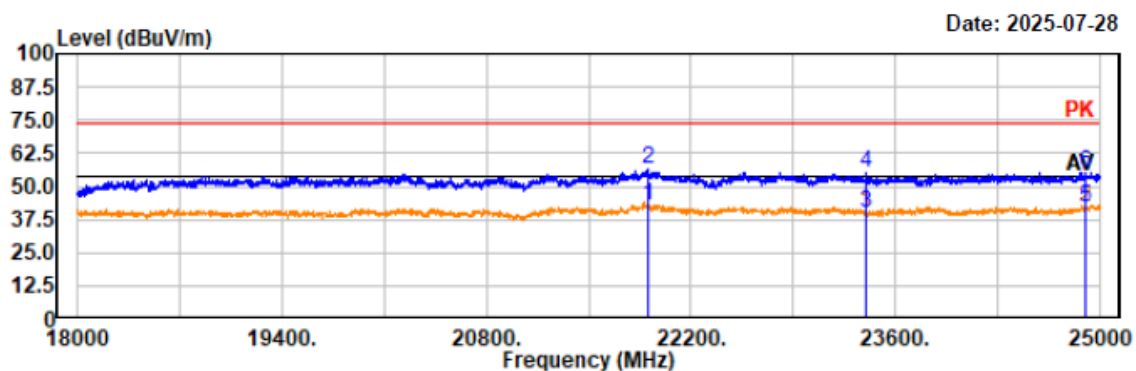


Trace: 1
Condition: PK RBW:1MHz VBW:3MHz SWT:auto
 AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
21984.20	37.35	5.23	42.58	54.00	11.42	horizontal	Average
21984.20	50.82	5.23	56.05	74.00	17.95	horizontal	Peak
23255.80	35.08	4.89	39.97	54.00	14.03	horizontal	Average
23255.80	50.17	4.89	55.06	74.00	18.94	horizontal	Peak
24435.00	34.62	6.13	40.75	54.00	13.25	horizontal	Average
24435.00	49.00	6.13	55.13	74.00	18.87	horizontal	Peak

Project No.: 2507V04150E-RF
Test Mode: EDR 3DH5 2402MHz
EUT Model: FAX916-B
Test distance: 1.5m

Temp/Humi/ATM: 21.3°C/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.7V



Trace: 1

Condition: PK RBW:1MHz VBW:3MHz SWT:auto

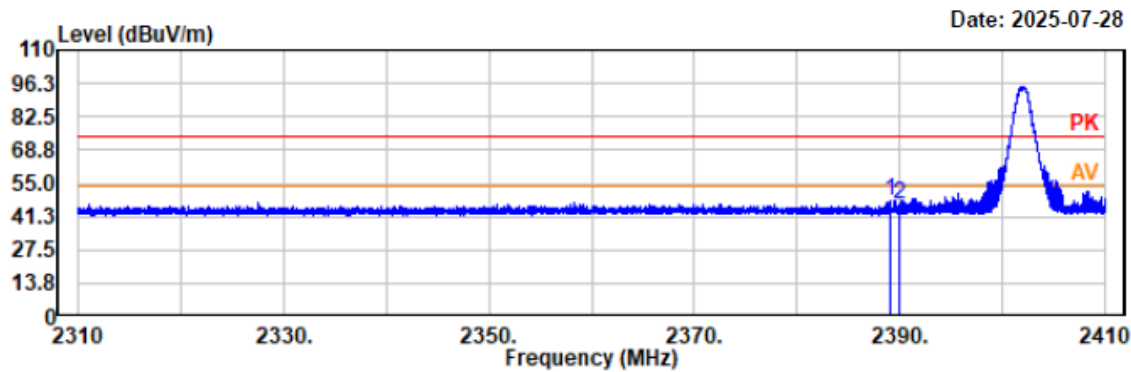
AV RBW:1MHz VBW:5kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
21905.00	37.26	5.18	42.44	54.00	11.56	vertical	Average
21905.00	51.10	5.18	56.28	74.00	17.72	vertical	Peak
23403.20	35.56	4.78	40.34	54.00	13.66	vertical	Average
23403.20	50.22	4.78	55.00	74.00	19.00	vertical	Peak
24903.60	35.68	6.30	41.98	54.00	12.02	vertical	Average
24903.60	48.80	6.30	55.10	74.00	18.90	vertical	Peak

Restricted Bands Emissions:

Project No.: 2507V04150E-RF
Test Mode: BDR DH5 2402MHz
EUT Model: FAX916-B
Test distance: 3m

Temp/Humi/ATM: 21.3°C/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.7V

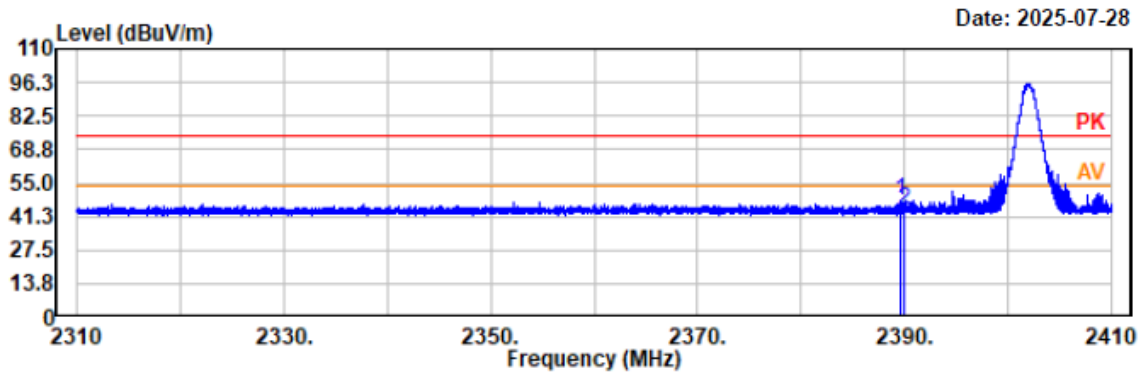


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2389.07	49.13	-1.15	47.98	74.00	26.02	horizontal	Peak
2390.00	47.07	-1.15	45.92	74.00	28.08	horizontal	Peak

Project No.: 2507V04150E-RF
Test Mode: BDR DH5 2402MHz
EUT Model: FAX916-B
Test distance: 3m

Temp/Humi/ATM: 21.3°C/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.7V

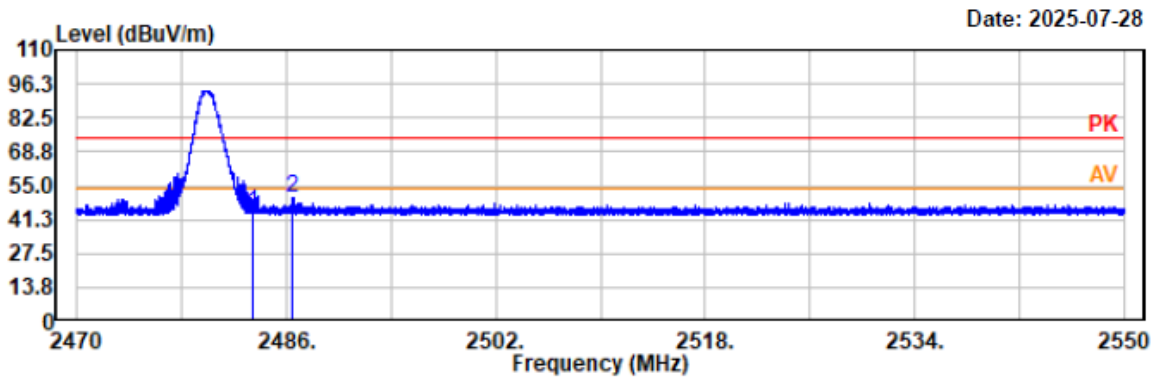


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2389.67	49.27	-1.15	48.12	74.00	25.88	vertical	Peak
2390.00	45.32	-1.15	44.17	74.00	29.83	vertical	Peak

Project No.: 2507V04150E-RF
Test Mode: BDR DH5 2480MHz
EUT Model: FAX916-B
Test distance: 3m

Temp/Humi/ATM: 21.3°C/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.7V

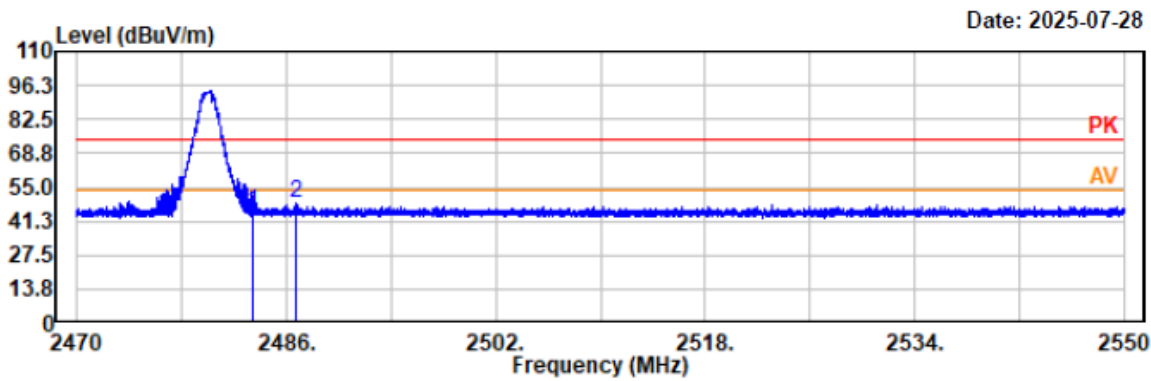


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	45.09	-0.77	44.32	74.00	29.68	horizontal	Peak
2486.38	51.12	-0.75	50.37	74.00	23.63	horizontal	Peak

Project No.: 2507V04150E-RF
Test Mode: BDR DH5 2480MHz
EUT Model: FAX916-B
Test distance: 3m

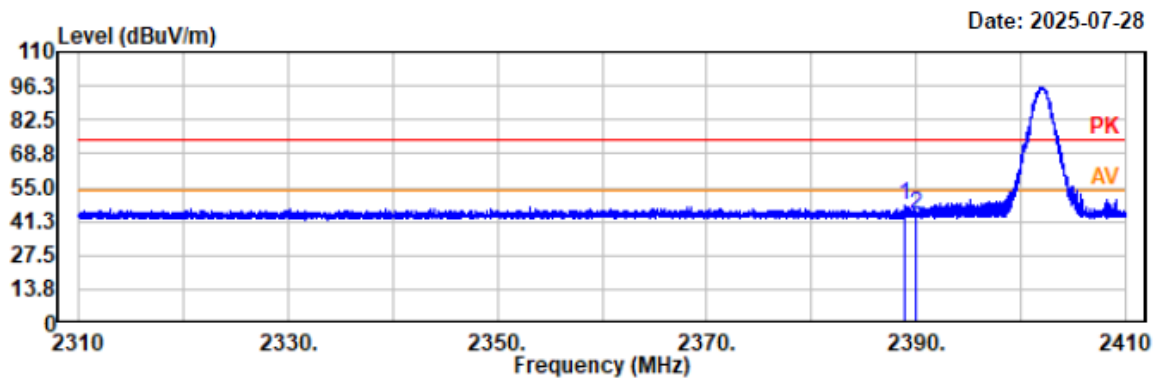
Temp/Humi/ATM: 21.3°C/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.7V



Condition: PK RBW:1MHz VBW:3MHz SWT:auto							
Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	45.15	-0.77	44.38	74.00	29.62	vertical	Peak
2486.78	49.43	-0.75	48.68	74.00	25.32	vertical	Peak

Project No.: 2507V04150E-RF
Test Mode: EDR 2DH5 2402MHz
EUT Model: FAX916-B
Test distance: 3m

Temp/Humi/ATM: 21.3°C/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.7V

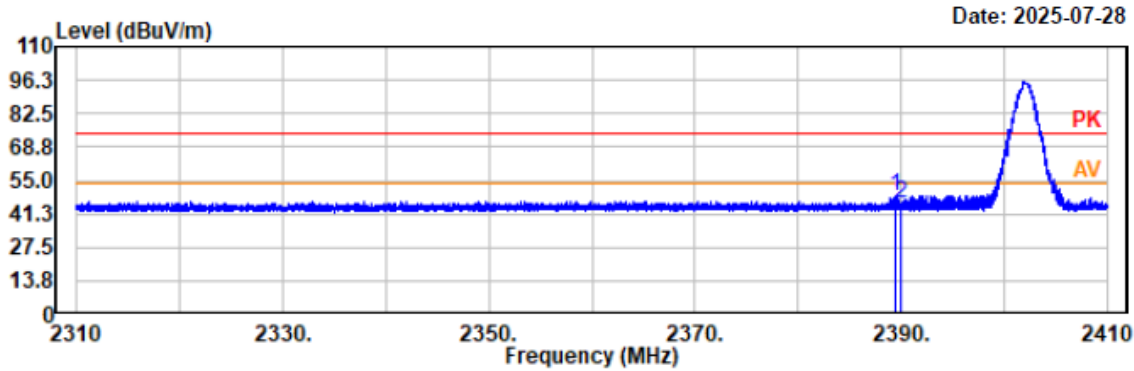


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2388.91	48.62	-1.15	47.47	74.00	26.53	horizontal	Peak
2390.00	45.20	-1.15	44.05	74.00	29.95	horizontal	Peak

Project No.: 2507V04150E-RF
Test Mode: EDR 2DH5 2402MHz
EUT Model: FAX916-B
Test distance: 3m

Temp/Humi/ATM: 21.3°C/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.7V

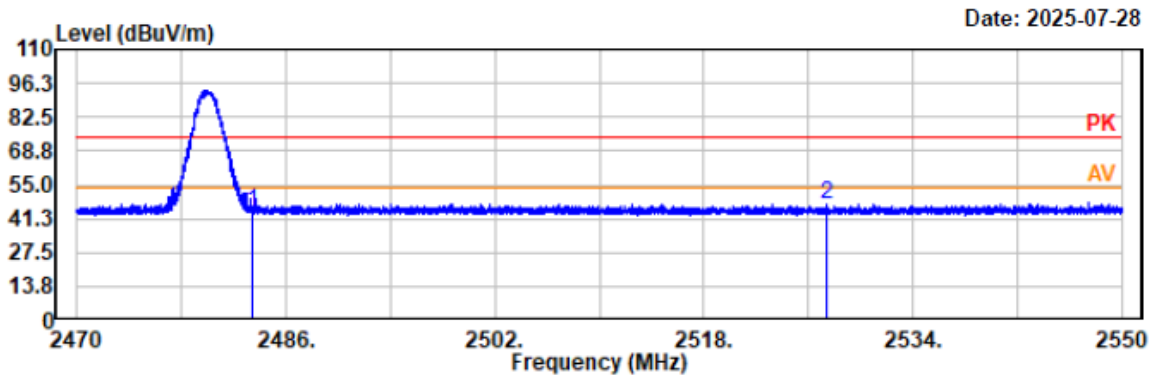


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2389.48	49.35	-1.15	48.20	74.00	25.80	vertical	Peak
2390.00	46.32	-1.15	45.17	74.00	28.83	vertical	Peak

Project No.: 2507V04150E-RF
Test Mode: EDR 2DH5 2480MHz
EUT Model: FAX916-B
Test distance: 3m

Temp/Humi/ATM: 21.3°C/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.7V

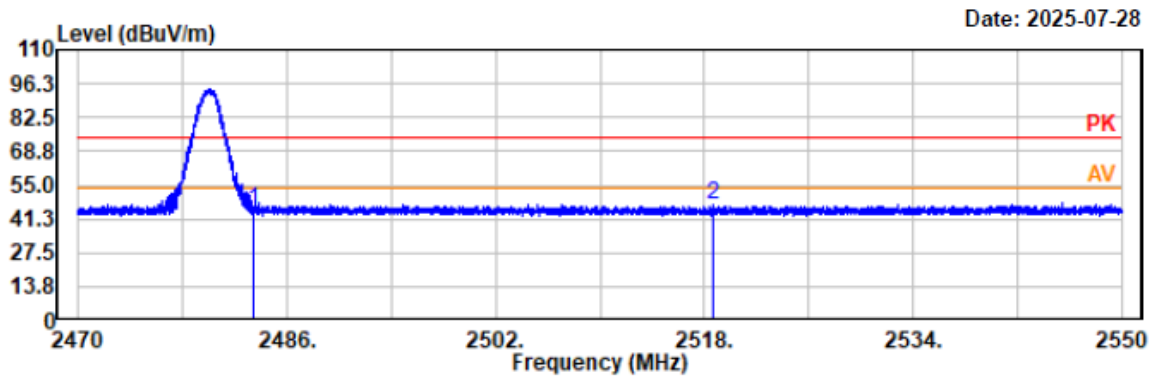


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	44.55	-0.77	43.78	74.00	30.22	horizontal	Peak
2527.44	47.82	-0.65	47.17	74.00	26.83	horizontal	Peak

Project No.: 2507V04150E-RF
Test Mode: EDR 2DH5 2480MHz
EUT Model: FAX916-B
Test distance: 3m

Temp/Humi/ATM: 21.3°C/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.7V

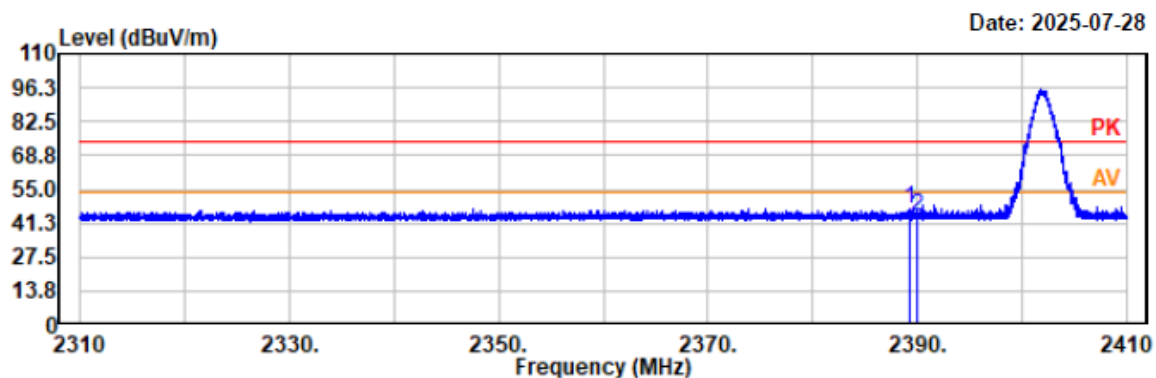


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	45.83	-0.77	45.06	74.00	28.94	vertical	Peak
2518.71	47.49	-0.66	46.83	74.00	27.17	vertical	Peak

Project No.: 2507V04150E-RF
Test Mode: EDR 3DH5 2402MHz
EUT Model: FAX916-B
Test distance: 3m

Temp/Humi/ATM: 21.3°C/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.7V



Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2389.26	48.13	-1.15	46.98	74.00	27.02	horizontal	Peak
2390.00	45.28	-1.15	44.13	74.00	29.87	horizontal	Peak

Project No.: 2507V04150E-RF

Test Mode: EDR 3DH5 2402MHz

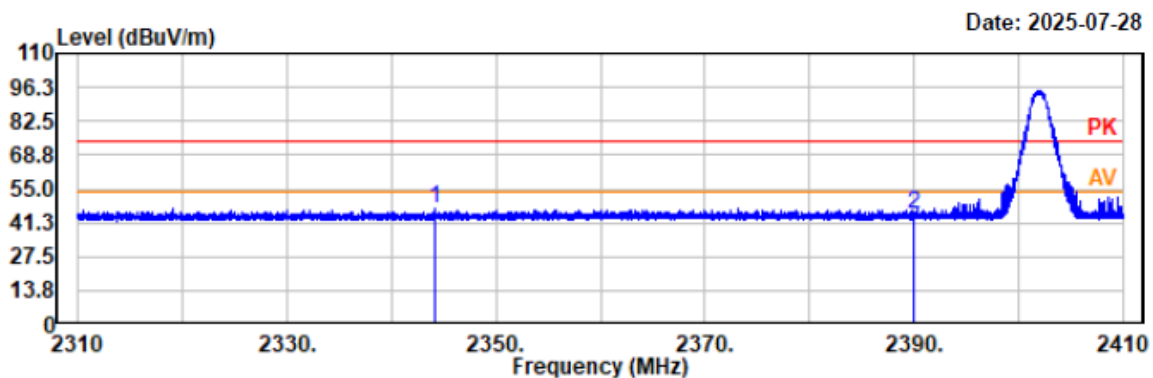
EUT Model: FAX916-B

Test distance: 3m

Temp/Humi/ATM: 21.3°C/56%/100.1kPa

Tested by: Wlif Wu

Power Source: DC 3.7V



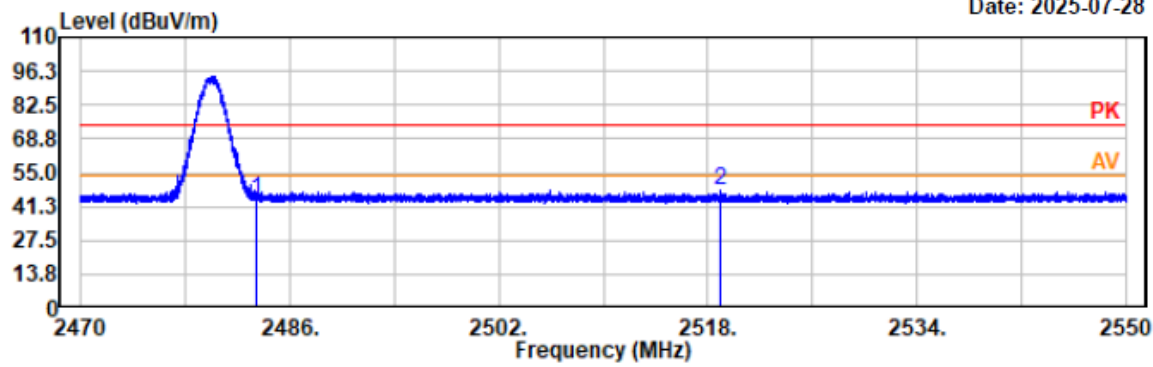
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2344.20	48.27	-1.33	46.94	74.00	27.06	vertical	Peak
2390.00	45.98	-1.15	44.83	74.00			

Project No.: 2507V04150E-RF
Test Mode: EDR 3DH5 2480MHz
EUT Model: FAX916-B
Test distance: 3m

Temp/Humi/ATM: 21.3°C/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.7V

Date: 2025-07-28

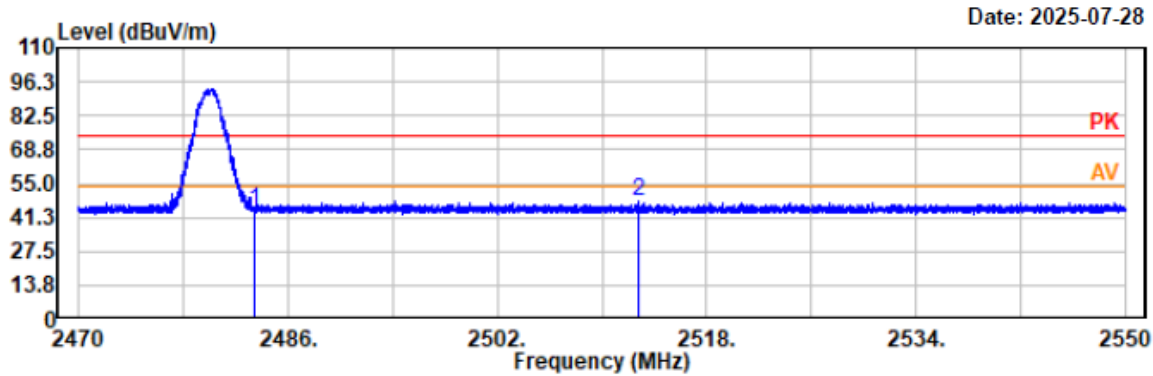


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
2483.50	44.92	-0.77	44.15	74.00	29.85	horizontal	Peak
2518.92	48.26	-0.66	47.60	74.00	26.40	horizontal	Peak

Project No.: 2507V04150E-RF
Test Mode: EDR 3DH5 2480MHz
EUT Model: FAX916-B
Test distance: 3m

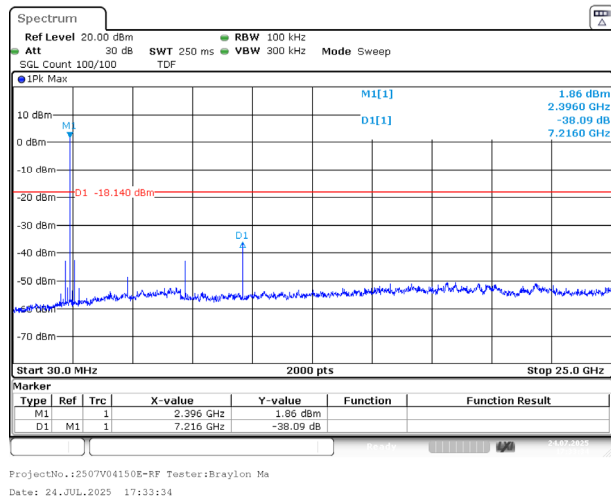
Temp/Humi/ATM: 21.3°C/56%/100.1kPa
Tested by: Wlif Wu
Power Source: DC 3.7V



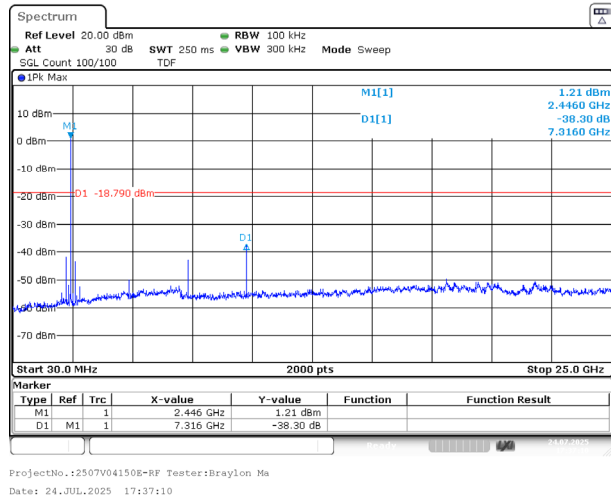
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Antenna-port conducted emission:

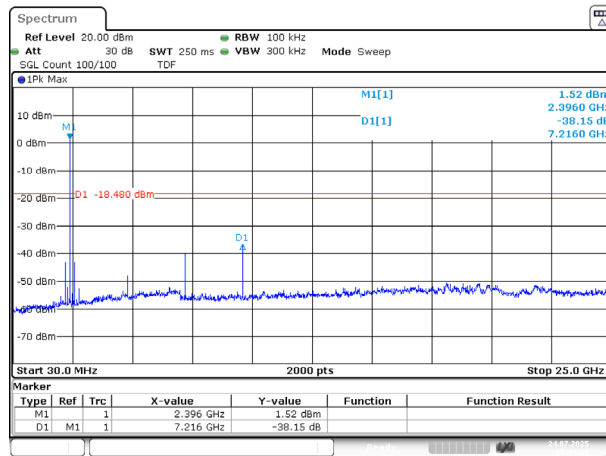
DH1_Low



DH1_Middle

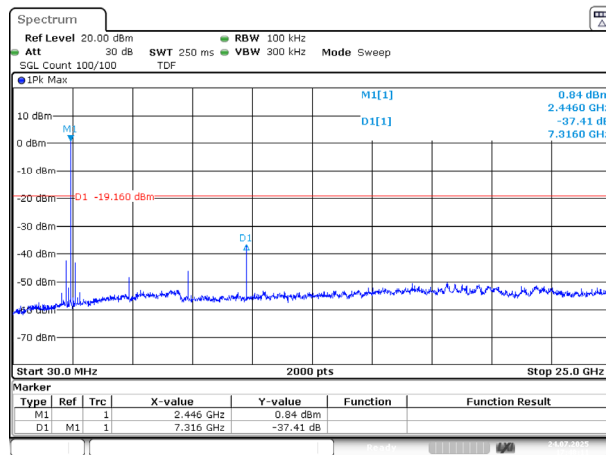


2DH1_Low

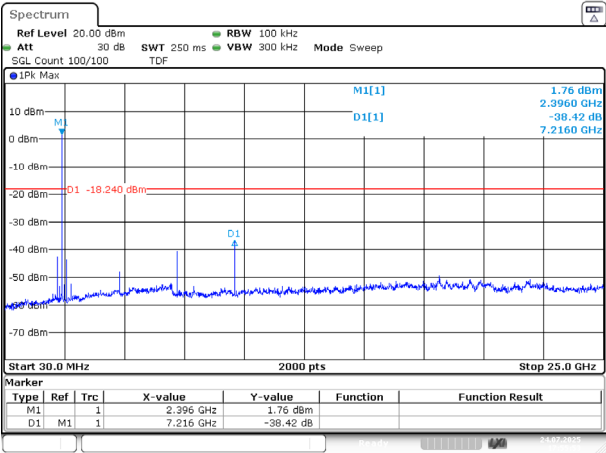


ProjectNo.:2507V04150E-RF Tester:Braylon Ma
Date: 24.JUL.2025 17:44:30

2DH1_Middle

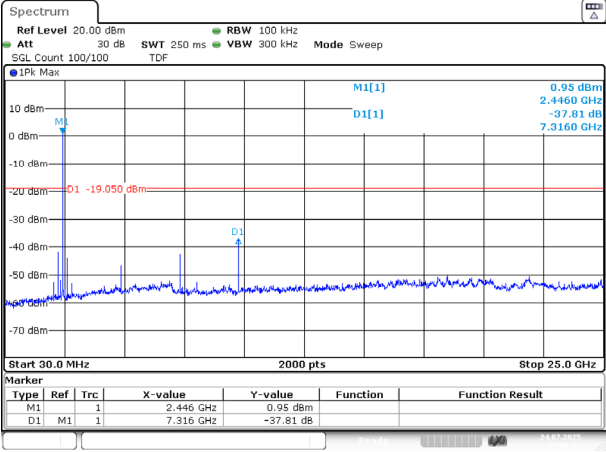


3DH1_Low



ProjectNo.:2507V04150E-RF Tester:Braylon Ma
Date: 24.JUL.2025 17:55:52

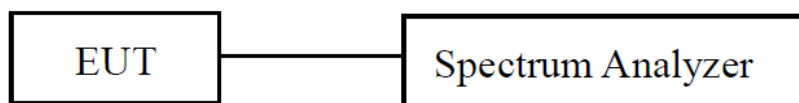
3DH1_Middle



FCC §15.247(a) (1) –CHANNEL SEPARATION TEST

Applicable Standard

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater provided the systems operate with an output power no greater than 125 mW.

EUT Setup**Test Procedure**

According to ANSI C63.10-2020 Section 7.8.2

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

- a) Span: Wide enough to capture the peaks of two adjacent channels.
- b) RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.
- c) Video (or average) bandwidth (VBW) $\geq$ RBW.
- d) Sweep: No faster than coupled (auto) time.
- e) Detector function: Peak.
- f) Trace: Max-hold.
- g) Allow the trace to stabilize.

Use the

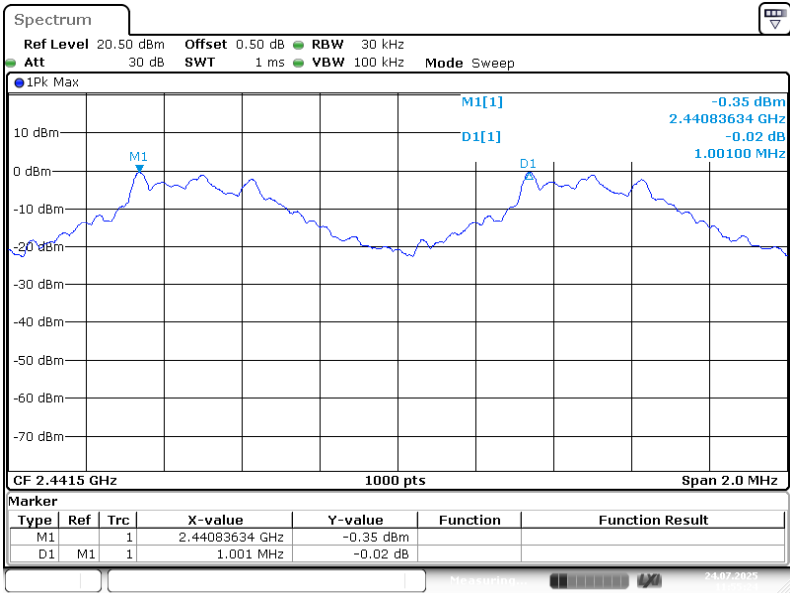
Test Data

Test Mode:		Transmitting		Test Engineer:		Braylon Ma			
Test Date:		2025-07-24		Environment:		Temp.: 24.5°C Humi.: 62% Atm.: 100.2kPa			
Mode	Channel	Frequency (MHz)	Channel Separation (MHz)	Limit (MHz)	Result				
BDR (GFSK)	Low	2402	1.001	0.839	Pass				
	Middle	2441	1.001	0.835	Pass				
	High	2480	1.003	0.835	Pass				

Note:

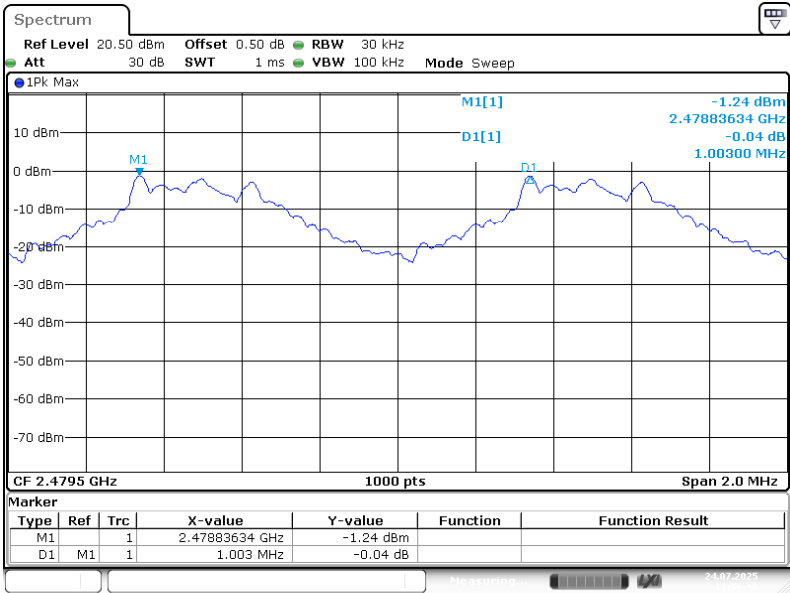
1. Limit = 20 dB bandwidth*2/3

BDR (GFSK): Middle Channel



ProjectNo.:2507V04150E-RF Tester:Braylon Ma
Date: 24.JUL.2025 11:55:24

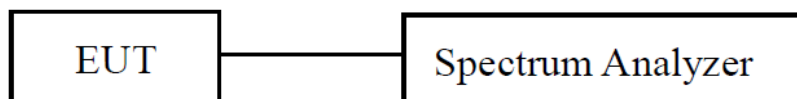
BDR (GFSK): High Channel



FCC §15.247(a) (1) – 20 dB EMISSION BANDWIDTH

Applicable Standard

Alternatively, frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

EUT Setup**Test Procedure**

According to ANSI C63.10-2020 Section 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 “

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 occupied 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.

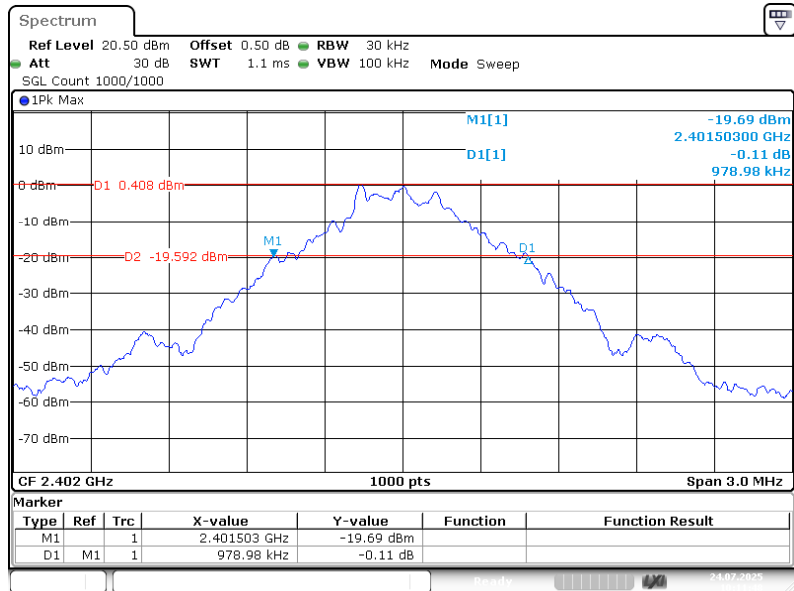
k) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

Test Data

Test Mode:	Transmitting	Test Engineer:	Braylon Ma
Test Date:	2025-07-24	Environment:	Temp.: 24.5°C Humi.: 62% Atm.: 100.2kPa
Mode	Channel	Frequency (MHz)	20 dB Emission Bandwidth (MHz)
BDR (GFSK)	Low	2402	0.979
	Middle	2441	0.931
	High	2480	0

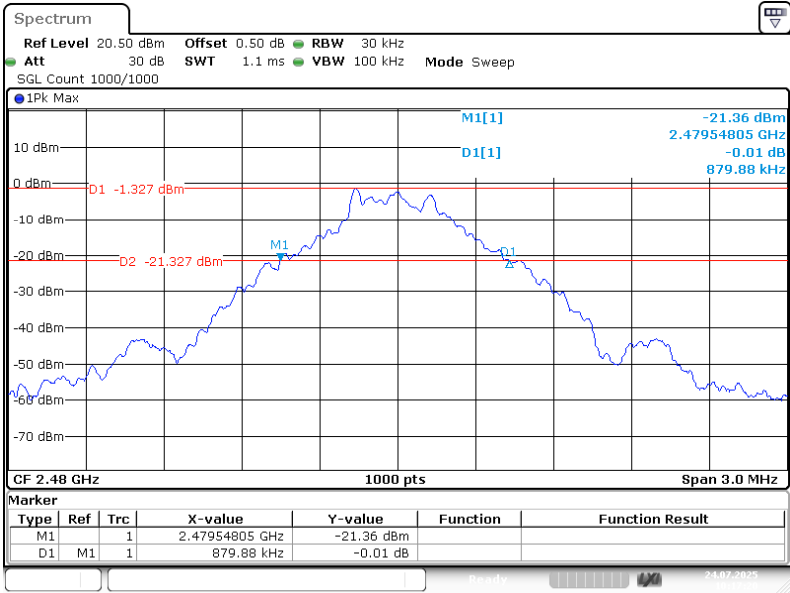
Please refer to below plots:

BDR (GFSK): Low Channel



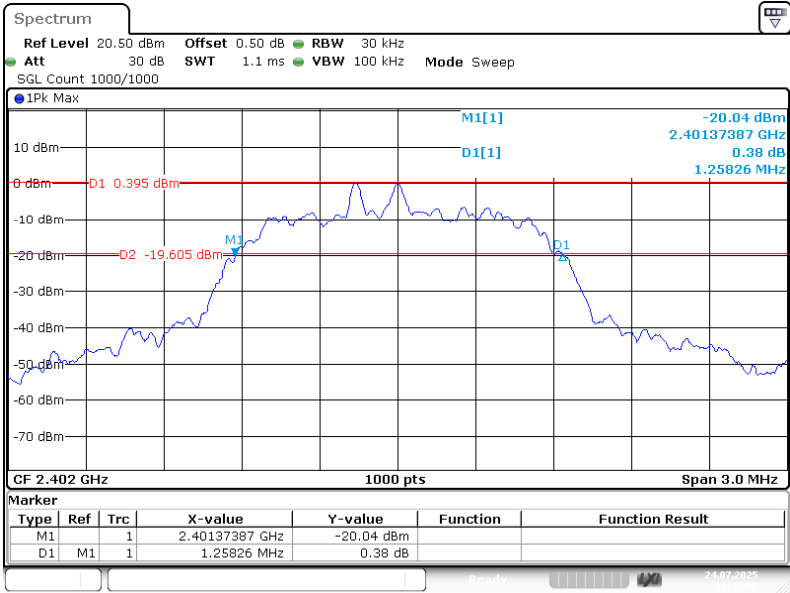
BDR (GFSK): Middle Channel

BDR (GFSK): High Channel

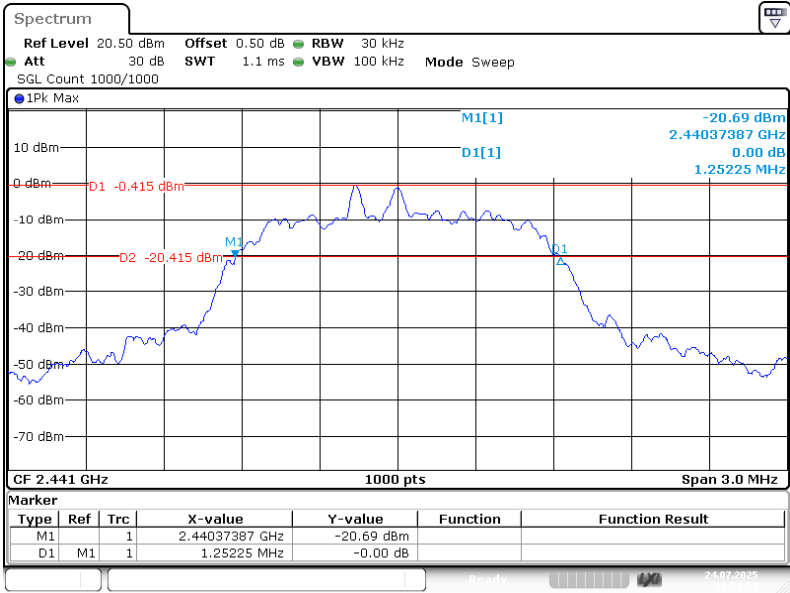


ProjectNo.:2507V04150E-RF Tester:Braylon Ma
Date: 24.JUL.2025 10:17:20

EDR ($\pi/4$ -DQPSK): Low Channel

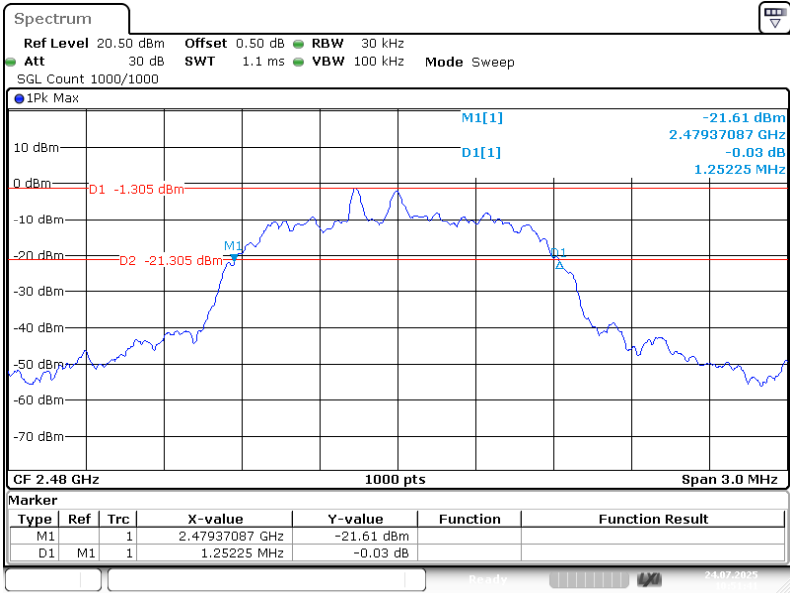


EDR($\pi/4$ -DQPSK): Middle Channel

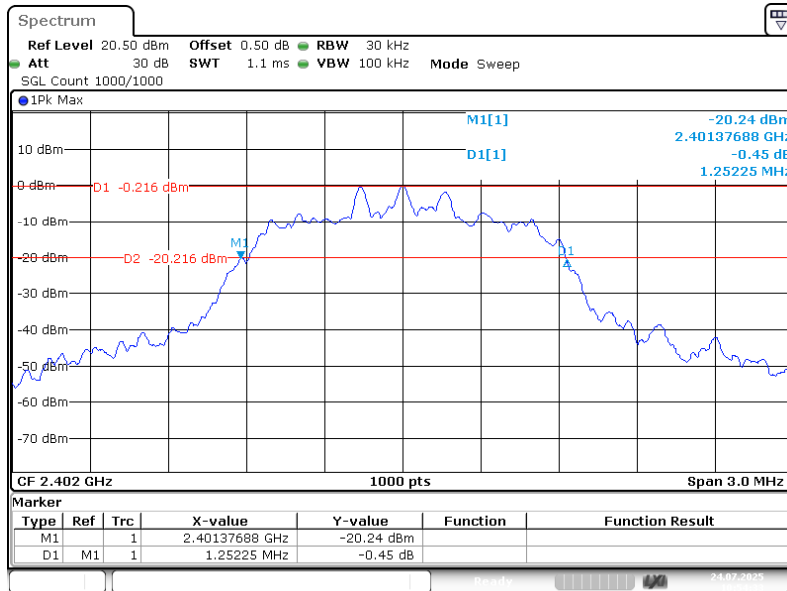


ProjectNo.:2507V04150E-RF Tester:Braylon Ma
Date: 24.JUL.2025 10:50:51

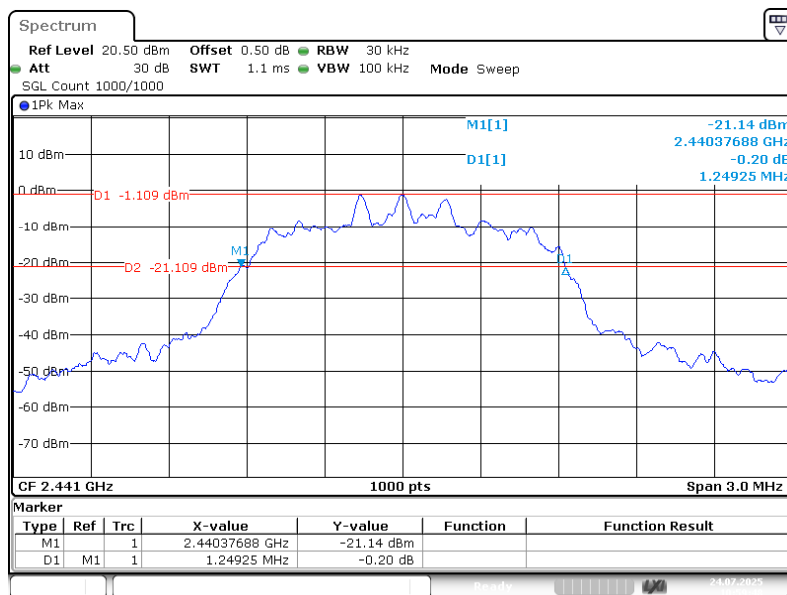
EDR ($\pi/4$ -DQPSK): High Channel



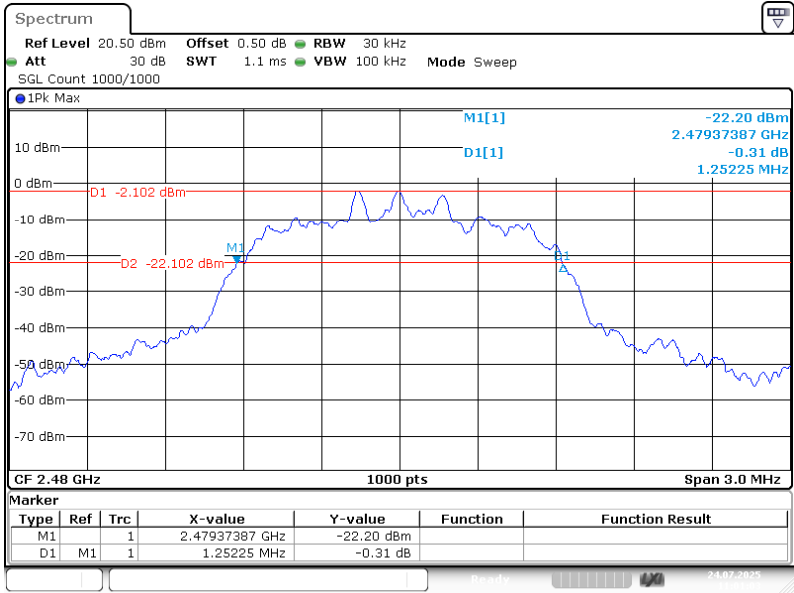
EDR (8DPSK): Low Channel



EDR (8DPSK): Middle Channel



EDR (8DPSK): High Channel



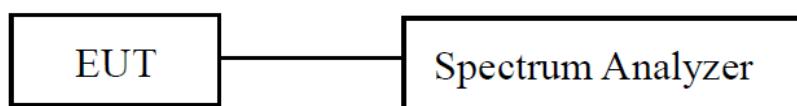
ProjectNo.:2507V04150E-RF Tester:Braylon Ma
Date: 24.JUL.2025 11:01:02

FCC §15.247(a) (1) (iii)-QUANTITY OF HOPPING CHANNEL TEST

Applicable Standard

Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

EUT Setup



Test Procedure

According to ANSI C63.10-2020 Section 7.8.3

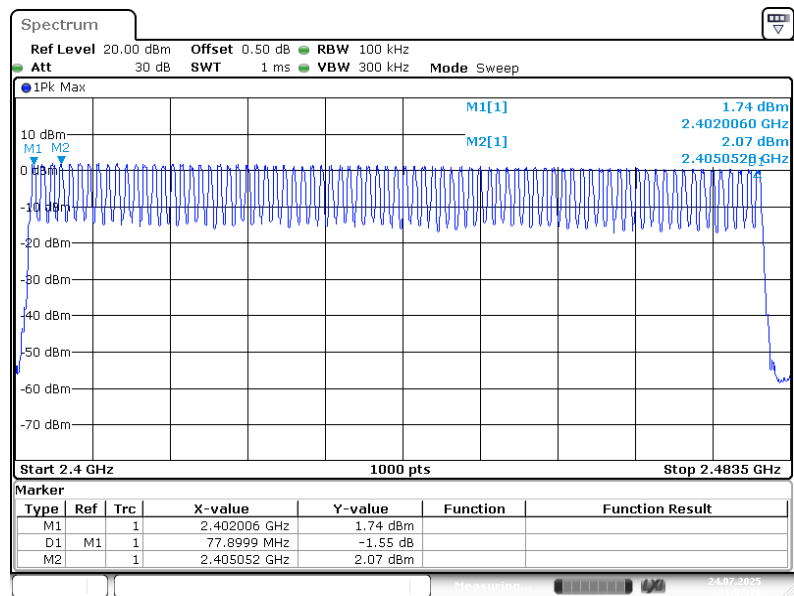
The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

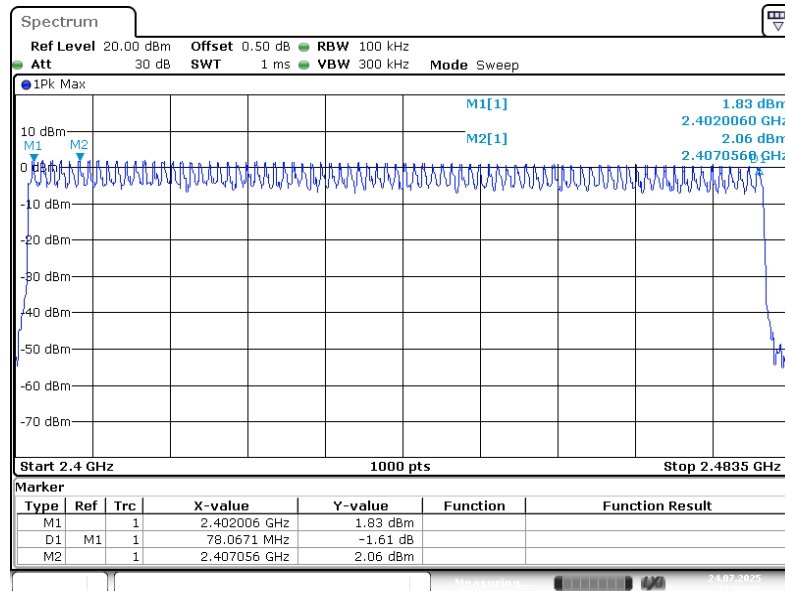
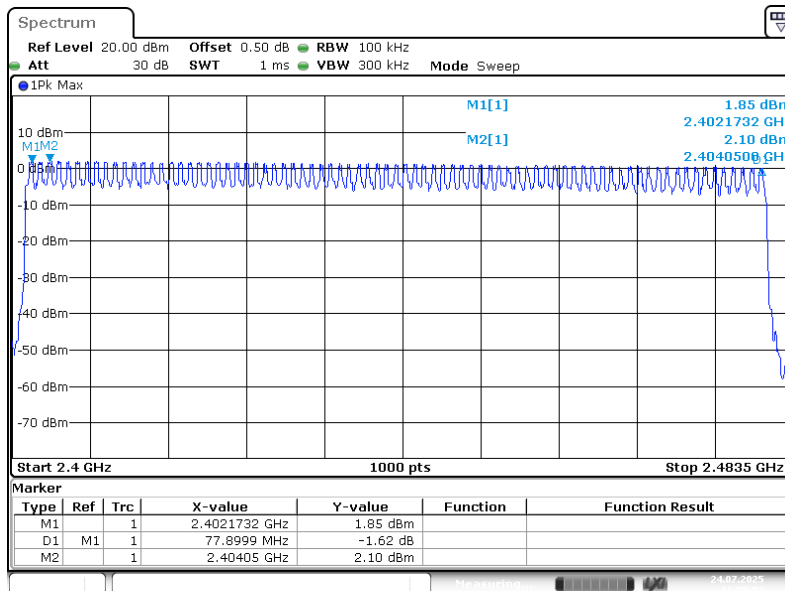
- a) Span: The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.
- b) RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.
- c) VBW $\geq$ RBW.
- d) Sweep: No faster than coupled

Test Data

Test Mode:	Transmitting	Test Engineer:	Braylon Ma
Test Date:	2025-07-24	Environment:	Temp.: 24.5°C Humi.: 62% Atm.: 100.2kPa
Mode	Frequency Range (MHz)	Number of Hopping Channel (CH)	Limit (CH)
BDR (GFSK)	2400-2483.5	79	≥15
EDR (π/4-DQPSK)	2400-2483.5	79	≥15
EDR (8DPSK)	2400-2483.5	79	≥15

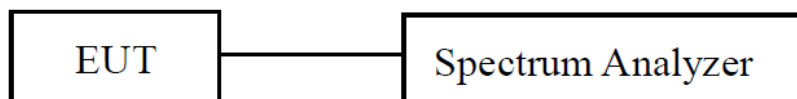
BDR (GFSK): Number of Hopping Channels



EDR ($\pi/4$ -DQPSK): Number of Hopping Channels**EDR (8DPSK): Number of Hopping Channels**

FCC §15.247(a) (1) (iii) - TIME OF OCCUPANCY (DWELL TIME)**Applicable Standard**

Frequency hopping systems in the 2400-2483.5 MHz shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

EUT Setup**Test Procedure**

According to ANSI C63.10-2020 Section 7.8.4

Use the following spectrum analyzer settings to determine the dwell time per hop:

- a) Span: Zero span, centered on a hopping channel.
- b) RBW shall be $\leq$ channel spacing and where possible RBW should be set $\gg 1 / T$, where T is the expected transmission time per hop.
- c) Sweep time: Set so that the start of the first transmission and end of the last transmission for the hop are clearly captured. Setting the sweep time to be slightly longer than the hopping period per channel (hopping period = $1/\text{hopping rate}$) should achieve this.
- d) Use a video trigger, where possible

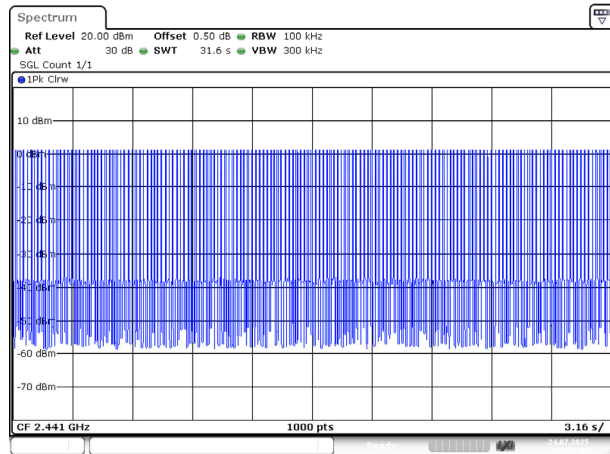
ms and the regulatory observation period is 10 s, then the number of hops in that ten seconds is $3 / 0.5 \times 10$, or 60 hops.

The average time of occupancy is calculated by multiplying the dwell time per hop by the number of hops in the observation period.

Test Data

Test Mode:		Transmitting		Test Engineer:		Braylon Ma
Test Date:		2025-07-24		Environment:		Temp.: 24.5°C Humi.: 62% Atm.: 100.2kPa
Mode	Packet Type	Test Frequency (MHz)	BurstWidth (ms)	TotalHops (Num)	Result (s)	Limit (s)
BDR (GFSK)	DH1	2441	0.393	221	0.087	0.400
	DH3	2441	1.655	135	0.223	0.400

DH1_Hopping



ProjectNo.:2507V04150E-RF Tester:Braylon Ma
Date: 24.JUL.2025 13:06:21

DH1_Hopping

