

TEST REPORT

Applicant Name: INFINIX MOBILITY LIMITED
Address: FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT, Hong Kong
Report Number: SZ1231213-75213E-RF-00A
FCC ID: 2AIZN-X6871

Test Standard (s)

FCC PART 15.247

Sample Description

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

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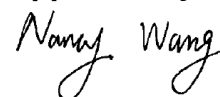
▲ In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:



Michelle Zeng
RF Engineer

Approved By:



Nancy Wang
RF Supervisor

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

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	SZ1231213-75213E-RF-00A	Original Report	2024/03/15

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	Mobile Phone
Tested Model	X6871
Multiple Model(s)	N/A
Frequency Range	Bluetooth: 2402~2480MHz
Transmit Peak Power	9.57dBm
Modulation Technique	Bluetooth: GFSK, $\pi/4$ -DQPSK, 8DPSK
Antenna Specification [#]	-4.3dBi (provided by the applicant)
Voltage Range	DC 3.91V from battery or DC 5-11V from adapter
Sample serial number	2F5J-5 for Conducted and Radiated Emissions Test 2F5J-1 for RF Conducted Test (Assigned by BACL, Shenzhen)
Sample/EUT Status	Good condition
Adapter Information	Model: U450XSB Input: AC 100-240V~50/60Hz, 1.8A Output: DC 5.0V, 3.0A, 15.0W or 5.0-10.0V, 1.5A or 11.0V, 4.1A, 45.0W MAX

Objective

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

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

Test Methodology

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

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

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

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

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

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in an engineering mode.

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	40	2442
1	2403	41	2443
2	2404	42	2444
...	...	...	...
...	...	...	...
36	2438	75	2477
37	2439	76	2478
38	2440	77	2479
39	2441	78	2480

EUT was tested with Channel 0, 39 and 78.

EUT Exercise Software

No exercise software was used and the power level is 8[#]. The software and power level was provided by the applicant.

Special Accessories

No special accessory.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

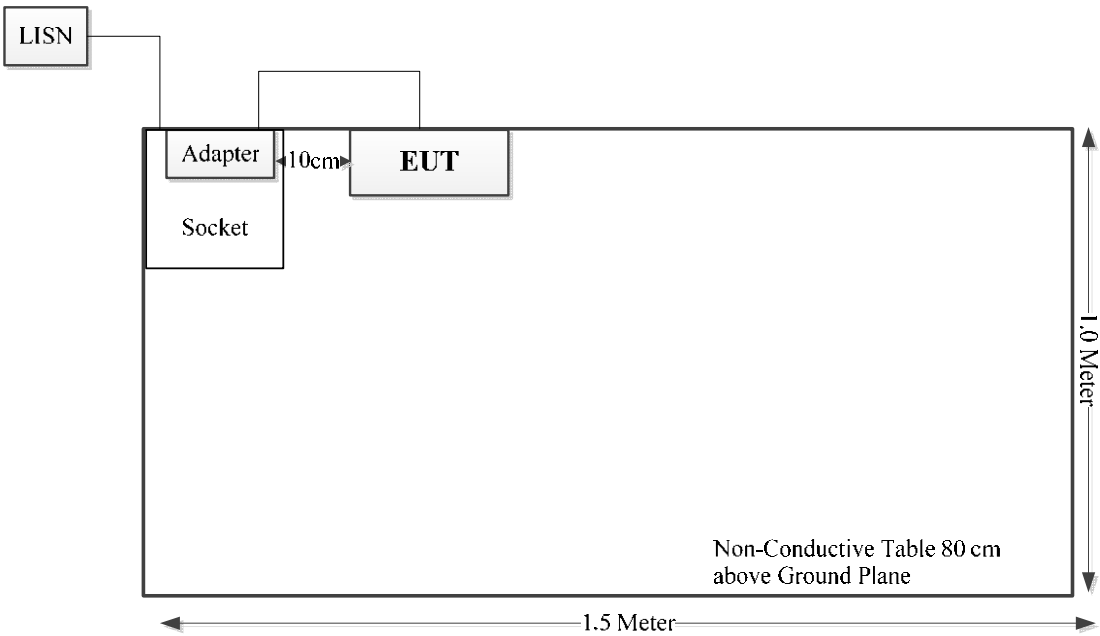
Manufacturer	Description	Model	Serial Number
Unknown	Socket	Unknown	Unknown

External I/O Cable

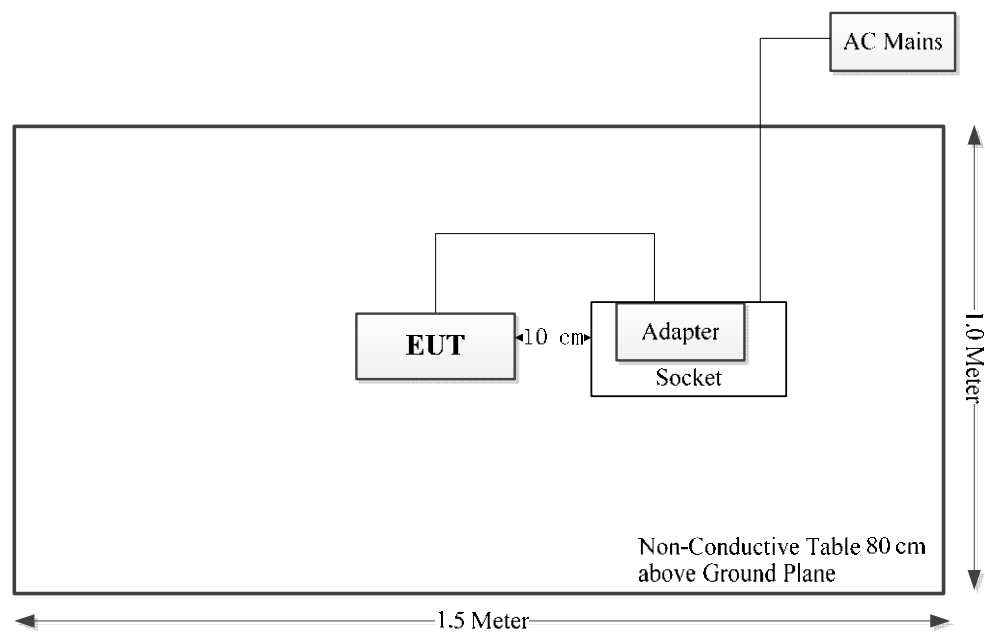
Cable Description	Length (m)	From Port	To
Un-shielding Detachable USB Cable	1.0	EUT	Adapter
Unshielded Un-detachable Cable	1.5	Socket	LISN/AC Main

Block Diagram of Test Setup

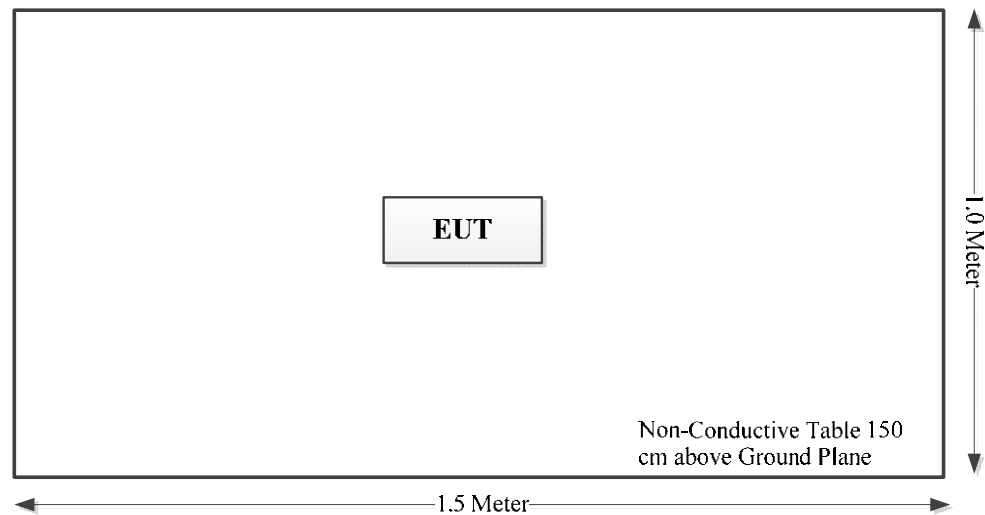
For Conducted Emissions:



Spurious emissions below 1GHz:



Spurious emissions above 1GHz:



SUMMARY OF TEST RESULTS

Rules	Description of Test	Result
FCC 15.247 (i), §1.1307 (b) (1) & §2.1093	RF Exposure	Compliant
FCC §15.203	Antenna Requirement	Compliant
FCC §15.207(a)	AC Line Conducted Emissions	Compliant
FCC §15.205, §15.209, §15.247(d)	Radiated Emissions	Compliant
FCC §15.247(a)(1)	20 dB Emission Bandwidth & 99% Occupied Bandwidth	Compliant
FCC §15.247(a)(1)	Channel Separation Test	Compliant
FCC §15.247(a)(1)(iii)	Time of Occupancy (Dwell Time)	Compliant
FCC §15.247(a)(1)(iii)	Quantity of hopping channel Test	Compliant
FCC §15.247(b)(1)	Peak Output Power Measurement	Compliant
FCC §15.247(d)	Band edges	Compliant

TEST EQUIPMENT LIST

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

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

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

Applicable Standard

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

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

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

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

1. $f(\text{GHz})$ is the RF channel transmit frequency in GHz.
2. Power and distance are rounded to the nearest mW and mm before calculation.
3. The result is rounded to one decimal place for comparison.
4. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test Exclusion.

Measurement Result

For worst case:

Frequency (MHz)	Maximum Tune-up power [#]		Calculated Distance (mm)	Calculated Value	Threshold (1-g SAR)	SAR Test Exclusion
	(dBm)	(mW)				
2402-2480	9.6	9.12	5	2.9	3.0	Yes

Result: No Standalone SAR test is required

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.

Antenna Connector Construction

The EUT has one internal antenna arrangement, which was permanently attached, the antenna gain[#] is -4.3dBi, fulfill the requirement of this section. Please refer to the EUT photos.

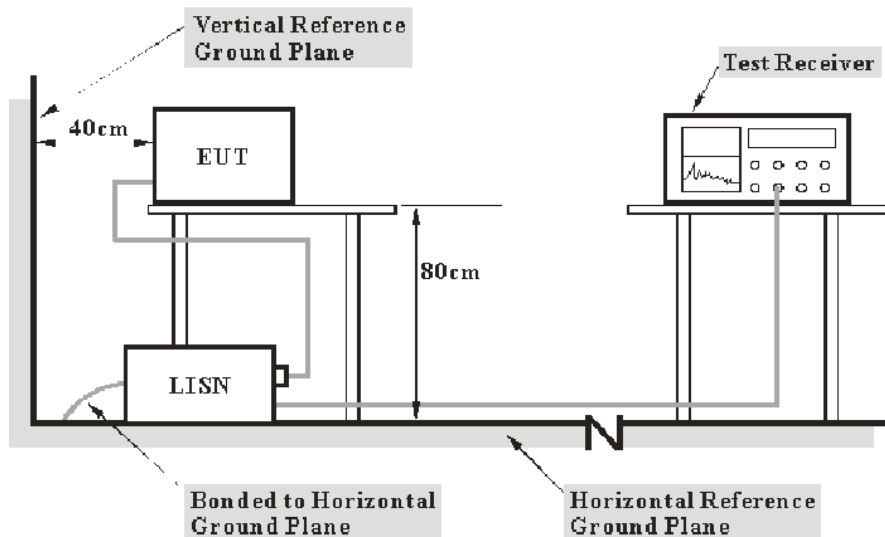
Result: Compliant

FCC §15.207 (a) - AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207(a)

EUT Setup



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The measurement procedure of EUT setup is according with ANSI C63.10-2013. The related limit was specified in FCC Part 15.207.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

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

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

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Procedure

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

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

All final data was recorded in the Quasi-peak and average detection mode.

Factor & Over Limit Calculation

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

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

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

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

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

Test Data

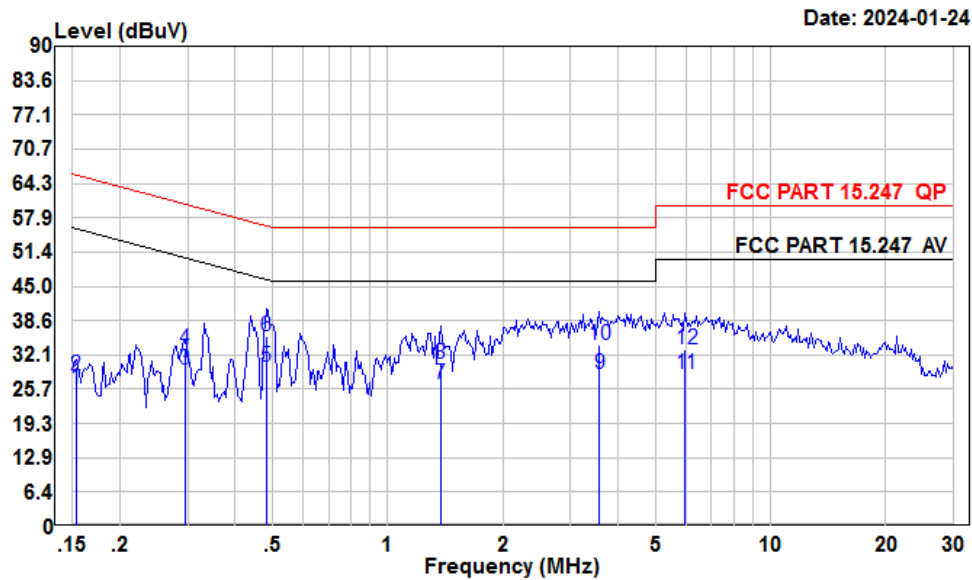
Environmental Conditions

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

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

EUT operation mode: Transmitting (Maximum output power mode, BDR (GFSK) Middle Channel)

AC 120V/60 Hz, Line



Condition: Line

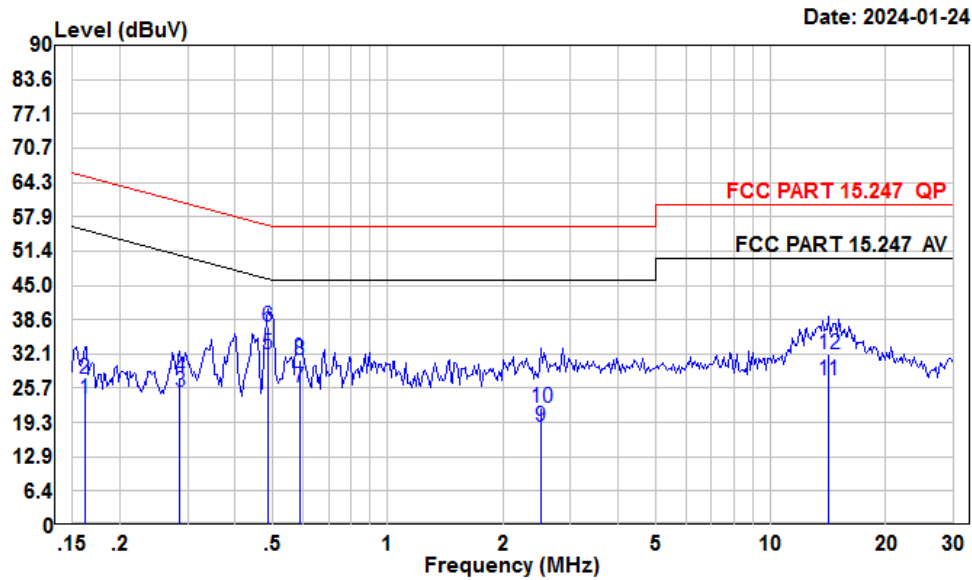
Project : SZ1231213-75213E-RF

Tester : Macy shi

Note : BT

	Freq	Read Level	LISN Level	LISN Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.15	5.12	25.87	10.60	10.15	55.82	-29.95	Average
2	0.15	7.45	28.20	10.60	10.15	65.82	-37.62	QP
3	0.30	8.53	29.30	10.64	10.13	50.37	-21.07	Average
4	0.30	12.38	33.15	10.64	10.13	60.37	-27.22	QP
5	0.48	9.07	29.93	10.70	10.16	46.32	-16.39	Average
6	0.48	14.77	35.63	10.70	10.16	56.32	-20.69	QP
7	1.37	5.74	26.55	10.75	10.06	46.00	-19.45	Average
8	1.37	9.66	30.47	10.75	10.06	56.00	-25.53	QP
9	3.57	7.63	28.52	10.63	10.26	46.00	-17.48	Average
10	3.57	13.16	34.05	10.63	10.26	56.00	-21.95	QP
11	5.99	7.65	28.61	10.74	10.22	50.00	-21.39	Average
12	5.99	12.10	33.06	10.74	10.22	60.00	-26.94	QP

AC 120V/60 Hz, Neutral



Condition: Neutral

Project : SZ1231213-75213E-RF

Tester : Macy shi

Note : BT

	Freq	Read Level	LISN Level	LISN Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.16	2.88	23.58	10.55	10.15	55.38	-31.80	Average
2	0.16	6.74	27.44	10.55	10.15	65.38	-37.94	QP
3	0.29	4.04	24.92	10.74	10.14	50.63	-25.71	Average
4	0.29	6.98	27.86	10.74	10.14	60.63	-32.77	QP
5	0.49	11.24	32.20	10.80	10.16	46.23	-14.03	Average
6	0.49	16.21	37.17	10.80	10.16	56.23	-19.06	QP
7	0.59	5.07	25.93	10.65	10.21	46.00	-20.07	Average
8	0.59	10.15	31.01	10.65	10.21	56.00	-24.99	QP
9	2.51	-2.48	18.43	10.70	10.21	46.00	-27.57	Average
10	2.51	1.23	22.14	10.70	10.21	56.00	-33.86	QP
11	14.14	6.51	27.18	10.54	10.13	50.00	-22.82	Average
12	14.14	11.42	32.09	10.54	10.13	60.00	-27.91	QP

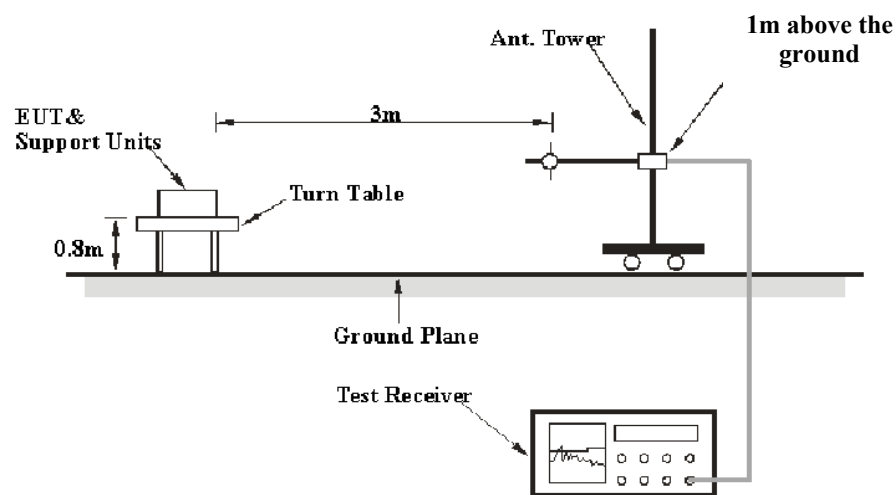
FCC §15.205, §15.209 & §15.247(d) - RADIATED EMISSIONS

Applicable Standard

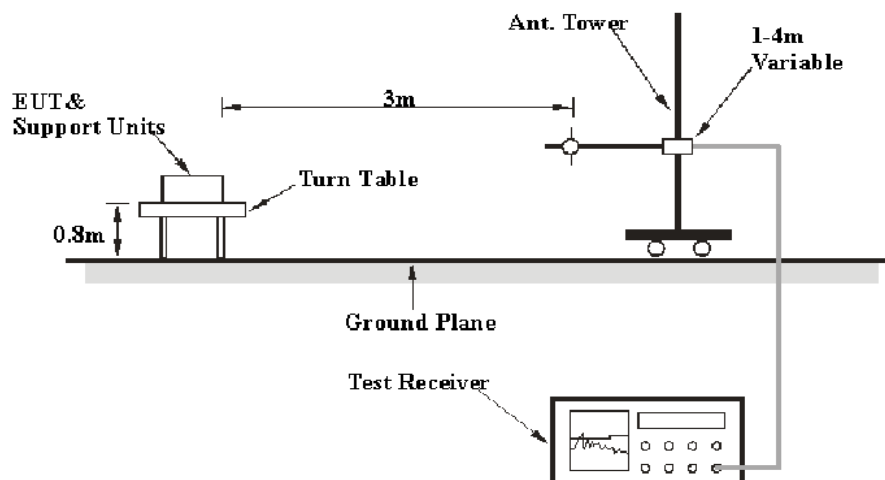
FCC §15.205; §15.209; §15.247(d)

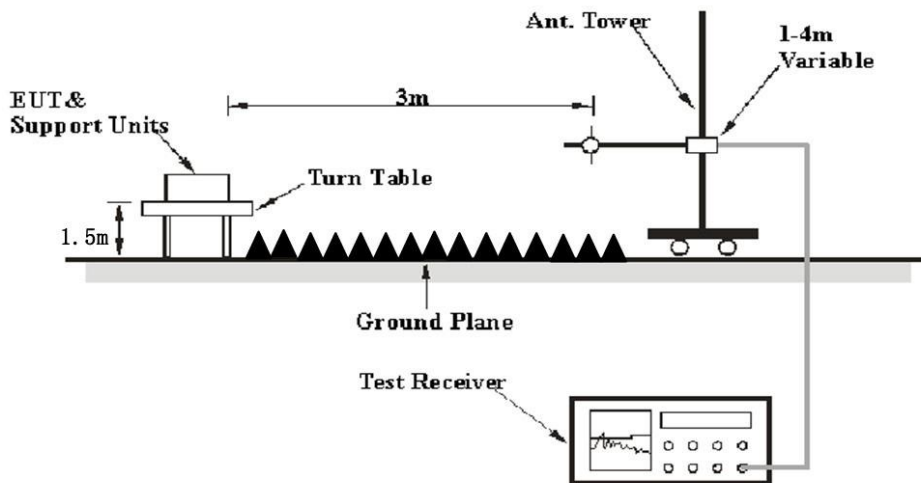
EUT Setup

9 kHz-30MHz:



30MHz-1GHz:



Above 1GHz:

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

EMI Test Receiver & Spectrum Analyzer Setup

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

Frequency Range	RBW	Video B/W	IF B/W	Measurement
9 kHz – 150 kHz	/	/	200 Hz	QP
	300 Hz	1 kHz	/	PK
150 kHz – 30 MHz	/	/	9 kHz	QP
	10 kHz	30 kHz	/	PK
30 MHz – 1000 MHz	/	/	120 kHz	QP
	100 kHz	300 kHz	/	PK
Above 1 GHz	1MHz	3 MHz	/	PK
	1MHz	10 Hz	/	AV

Test Procedure

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

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

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

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:	23~25 °C
Relative Humidity:	50~70 %
ATM Pressure:	101 kPa

The testing was performed by Warren Huang on 2024-01-20 for below 1GHz and Zenos Qiao from 2024-01-26 to 2024-02-02 for above 1GHz.

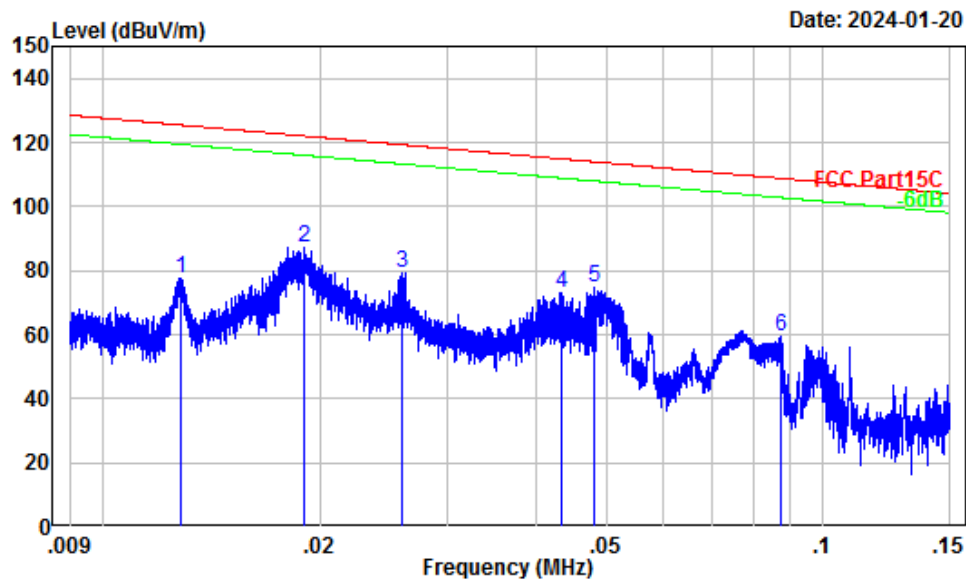
Test mode: Transmitting

Note: After pre-scan in the X, Y and Z axes of orientation, the worst case Y-axis of orientation were recorded.

9 kHz-30MHz: (Maximum output power mode, BDR Mode (GFSK) Middle channel)

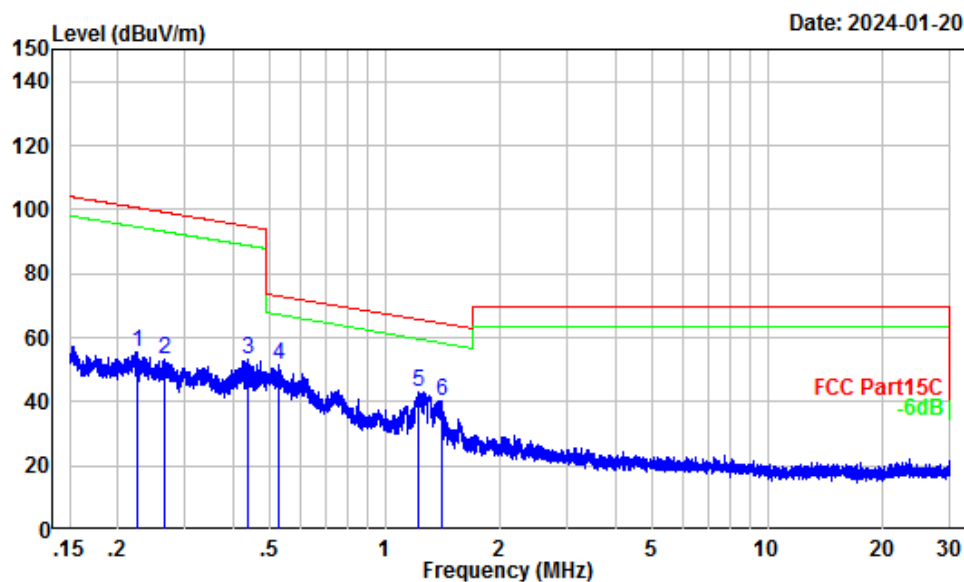
Note: When the test result of peak was less than the limit of QP/Average more than 6dB, just peak value were recorded.

Parallel (worst case)



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

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.01	52.43	25.38	77.81	125.43	-47.62	Peak
2	0.02	50.54	36.41	86.95	122.03	-35.08	Peak
3	0.03	48.38	30.72	79.10	119.29	-40.19	Peak
4	0.04	43.02	29.91	72.93	114.85	-41.92	Peak
5	0.05	41.60	32.84	74.44	113.97	-39.53	Peak
6	0.09	35.90	23.42	59.32	108.80	-49.48	Peak

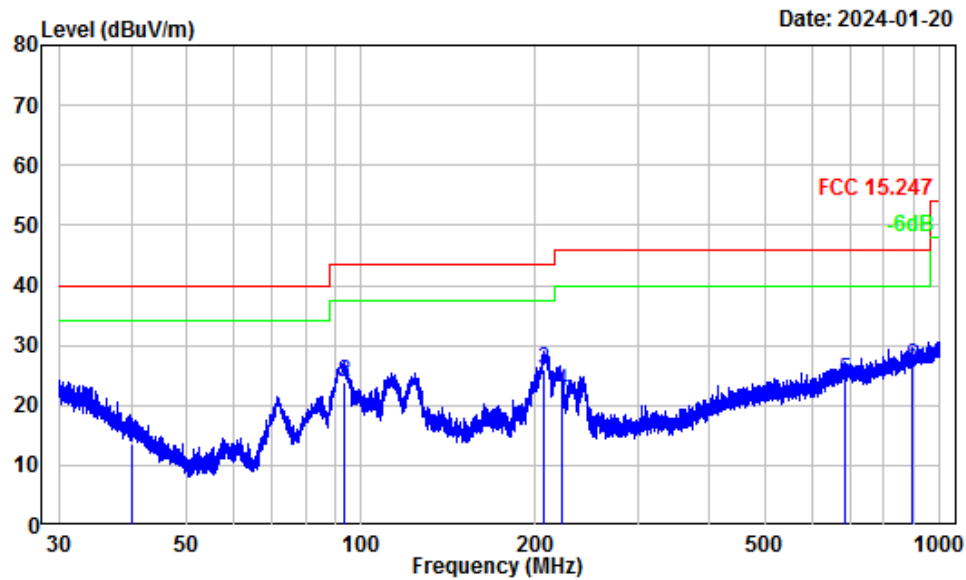


Site : chamber
 Condition : 3m
 Project Number: SZ1231213-75213E-RF
 Note : BT
 Tester : Warren Huang

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.22	28.13	27.38	55.51	100.59	-45.08	Peak
2	0.27	26.63	26.51	53.14	99.10	-45.96	Peak
3	0.44	21.82	31.56	53.38	94.79	-41.41	Peak
4	0.53	20.58	30.87	51.45	73.11	-21.66	Peak
5	1.22	14.34	28.57	42.91	65.68	-22.77	Peak
6	1.40	13.44	26.95	40.39	64.47	-24.08	Peak

30MHz-1GHz: (Maximum output power mode, BDR (GFSK) Middle Channel)

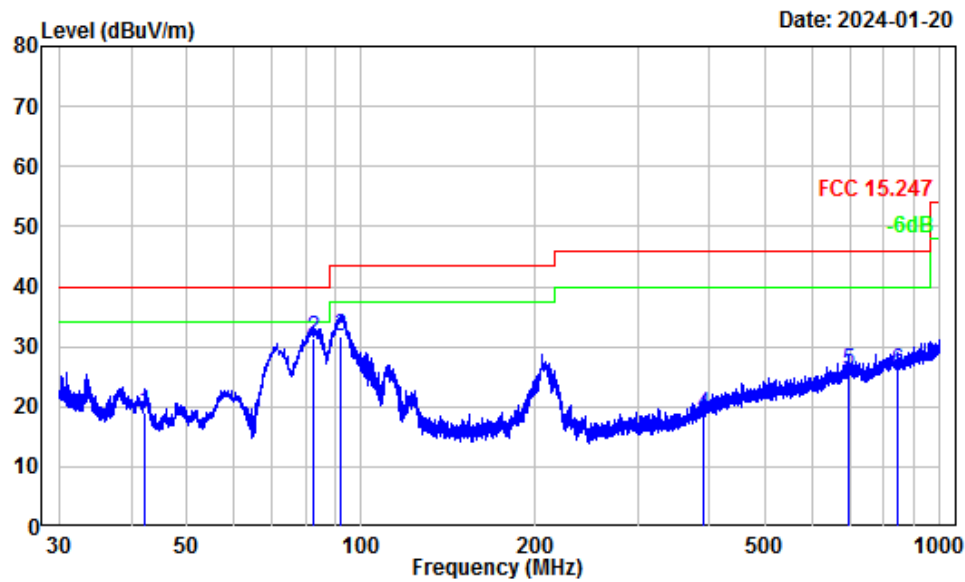
Horizontal



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

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	40.05 -10.42	24.13	13.71	40.00	-26.29	QP
2	93.32 -15.62	39.36	23.74	43.50	-19.76	QP
3	207.21 -11.14	36.98	25.84	43.50	-17.66	QP
4	222.46 -11.40	33.76	22.36	46.00	-23.64	QP
5	683.85 -1.81	26.04	24.23	46.00	-21.77	QP
6	896.60 0.96	25.49	26.45	46.00	-19.55	QP

Vertical



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

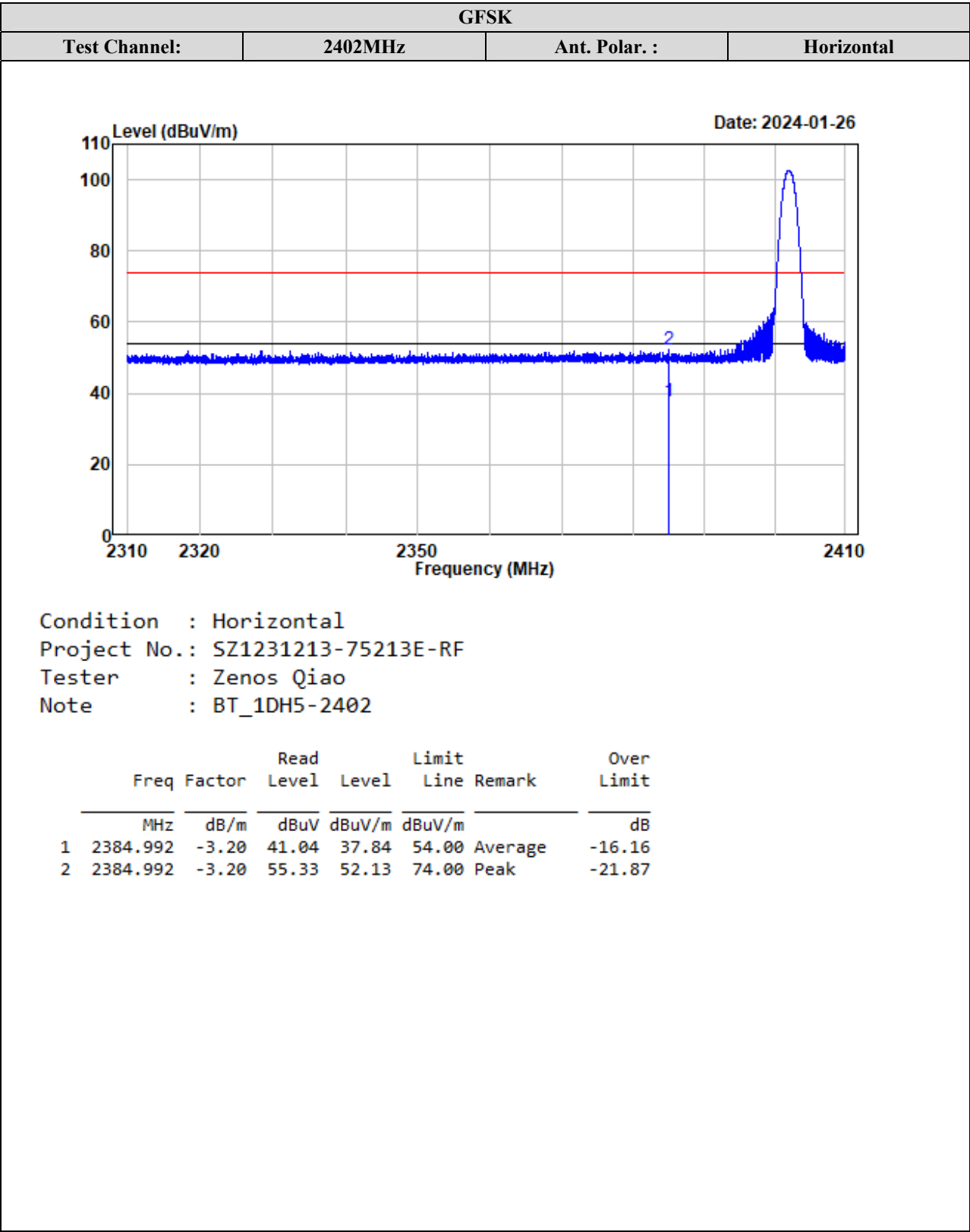
	Freq Factor		Read Level	Limit Level	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB
1	42.34	-13.22	32.29	19.07	40.00	-20.93 QP
2	82.36	-17.25	48.60	31.35	40.00	-8.65 QP
3	92.10	-16.91	48.66	31.75	43.50	-11.75 QP
4	391.24	-8.02	26.64	18.62	46.00	-27.38 QP
5	695.33	-2.00	27.83	25.83	46.00	-20.17 QP
6	842.87	-0.19	26.19	26.00	46.00	-20.00 QP

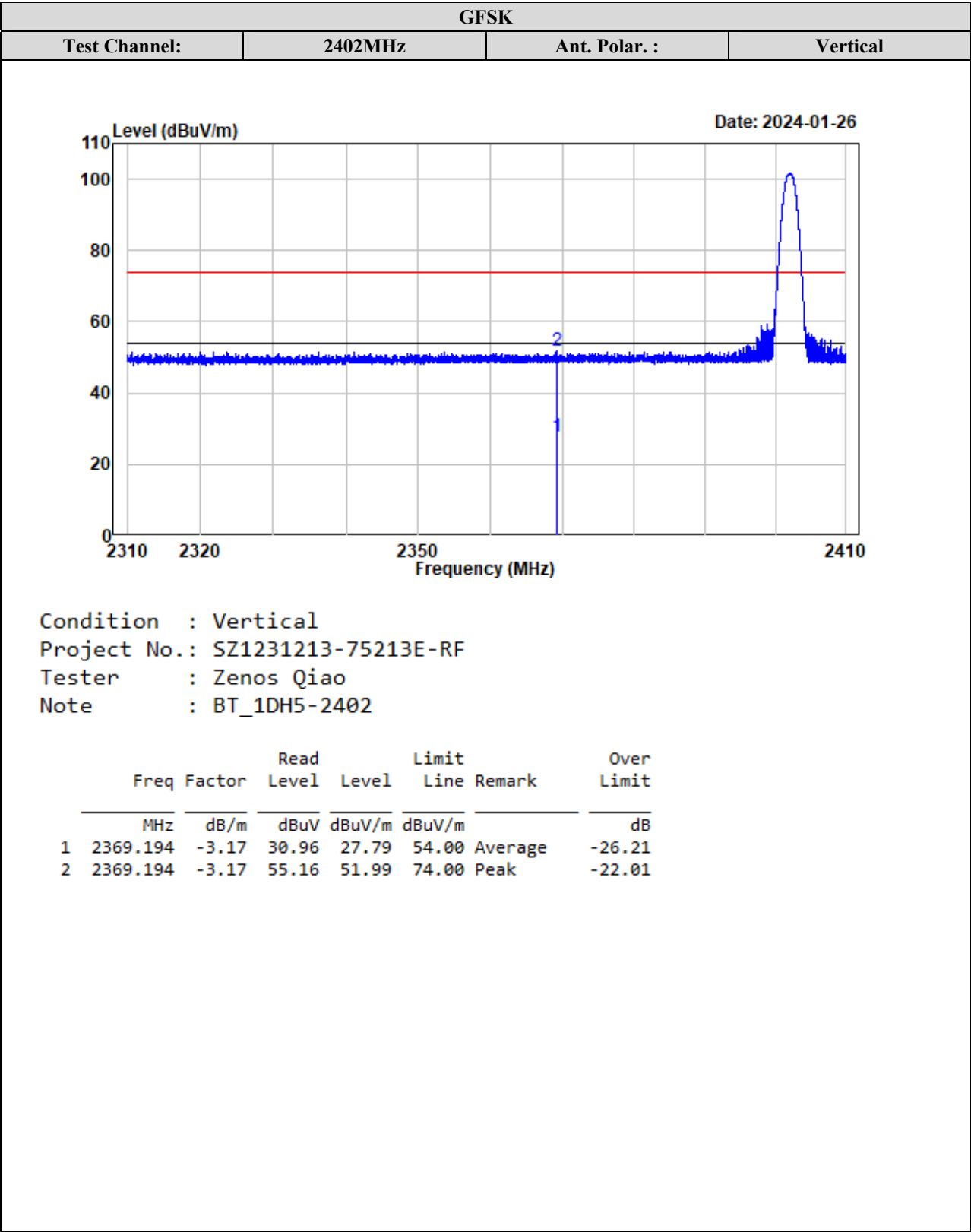
Above 1GHz:

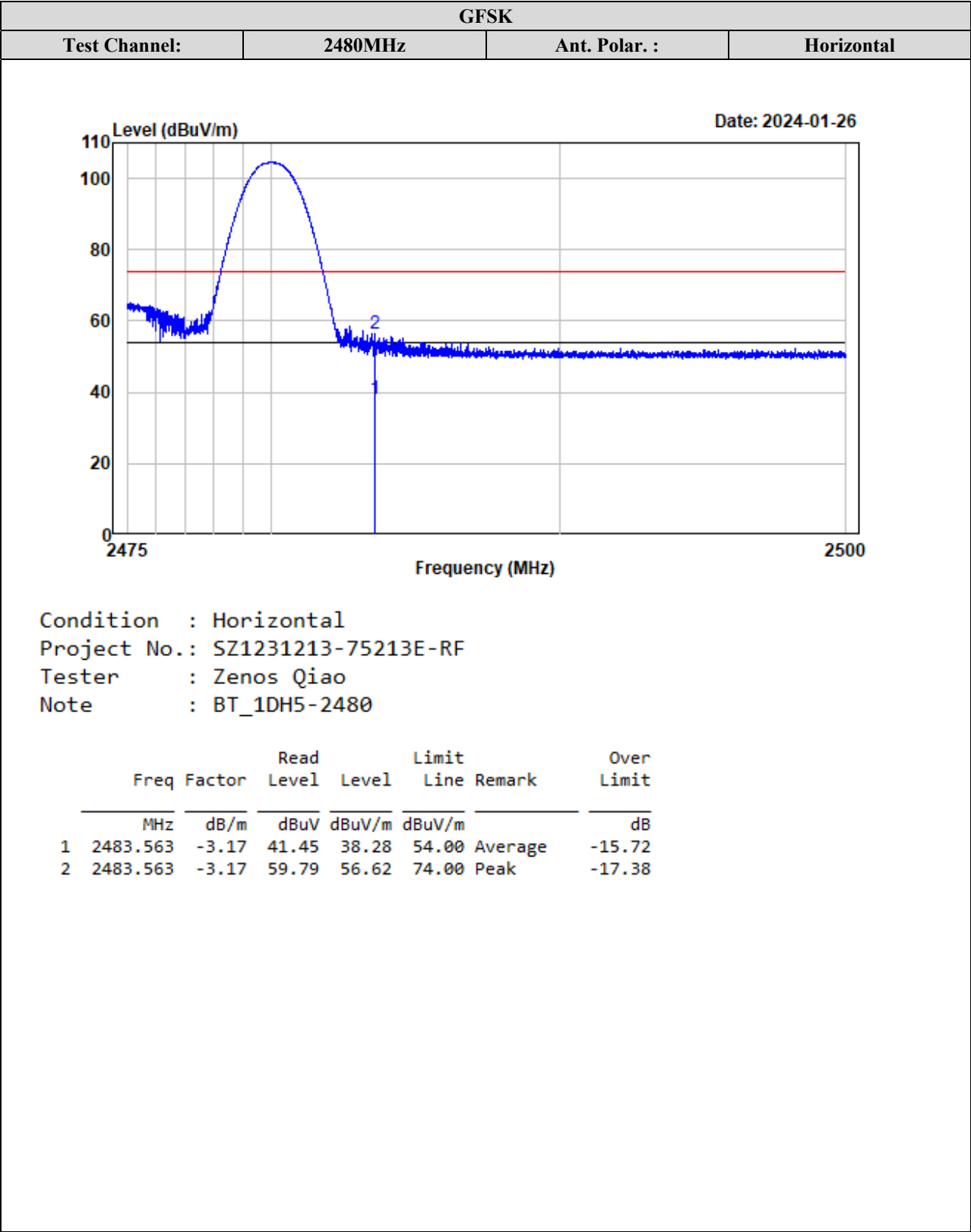
Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
GFSK									
Low Channel 2402MHz									
4804.00	48.89	PK	38	1.2	H	2.42	51.31	74	-22.69
4804.00	33.75	AV	38	1.2	H	2.42	36.17	54	-17.83
4804.00	48.64	PK	63	1.6	V	2.42	51.06	74	-22.94
4804.00	33.38	AV	63	1.6	V	2.42	35.80	54	-18.20
Middle Channel 2441MHz									
4882.00	48.57	PK	6	1.7	H	2.56	51.13	74	-22.87
4882.00	33.46	AV	6	1.7	H	2.56	36.02	54	-17.98
4882.00	48.32	PK	247	2.4	V	2.56	50.88	74	-23.12
4882.00	33.09	AV	247	2.4	V	2.56	35.65	54	-18.35
High Channel 2480MHz									
4960.00	48.25	PK	221	2.0	H	2.68	50.93	74	-23.07
4960.00	33.11	AV	221	2.0	H	2.68	35.79	54	-18.21
4960.00	48.04	PK	289	1.4	V	2.68	50.72	74	-23.28
4960.00	32.78	AV	289	1.4	V	2.68	35.46	54	-18.54
π/4-DQPSK									
Low Channel 2402MHz									
4804.00	47.87	PK	128	2.3	H	2.42	50.29	74	-23.71
4804.00	32.53	AV	128	2.3	H	2.42	34.95	54	-19.05
4804.00	47.68	PK	238	2.2	V	2.42	50.10	74	-23.90
4804.00	32.39	AV	238	2.2	V	2.42	34.81	54	-19.19
Middle Channel 2441MHz									
4882.00	47.57	PK	1	1.0	H	2.56	50.13	74	-23.87
4882.00	32.32	AV	1	1.0	H	2.56	34.88	54	-19.12
4882.00	47.41	PK	89	1.9	V	2.56	49.97	74	-24.03
4882.00	32.18	AV	89	1.9	V	2.56	34.74	54	-19.26
High Channel 2480MHz									
4960.00	47.39	PK	264	1.4	H	2.68	50.07	74	-23.93
4960.00	32.18	AV	264	1.4	H	2.68	34.86	54	-19.14
4960.00	47.22	PK	260	1.1	V	2.68	49.90	74	-24.10
4960.00	32.05	AV	260	1.1	V	2.68	34.73	54	-19.27

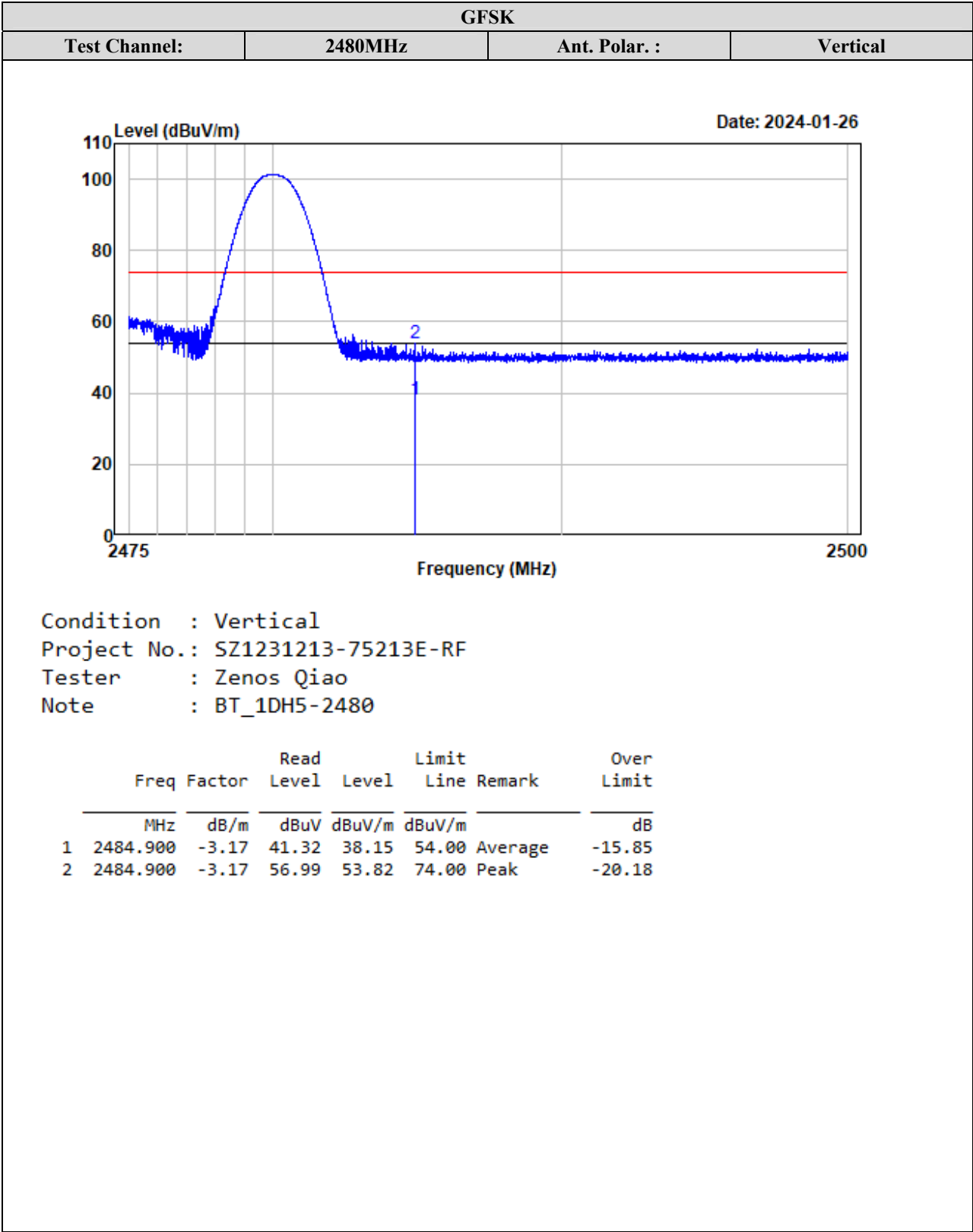
Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
8DPSK									
Low Channel 2402MHz									
4804.00	48.04	PK	7	2.5	H	2.42	50.46	74	-23.54
4804.00	32.48	AV	7	2.5	H	2.42	34.90	54	-19.10
4804.00	47.87	PK	307	1.6	V	2.42	50.29	74	-23.71
4804.00	32.32	AV	307	1.6	V	2.42	34.74	54	-19.26
Middle Channel 2441MHz									
4882.00	47.75	PK	176	2.4	H	2.56	50.31	74	-23.69
4882.00	32.26	AV	176	2.4	H	2.56	34.82	54	-19.18
4882.00	47.59	PK	317	1.5	V	2.56	50.15	74	-23.85
4882.00	32.12	AV	317	1.5	V	2.56	34.68	54	-19.32
High Channel 2480MHz									
4960.00	47.33	PK	240	2.4	H	2.68	50.01	74	-23.99
4960.00	32.09	AV	240	2.4	H	2.68	34.77	54	-19.23
4960.00	47.18	PK	228	1.3	V	2.68	49.86	74	-24.14
4960.00	31.95	AV	228	1.3	V	2.68	34.63	54	-19.37

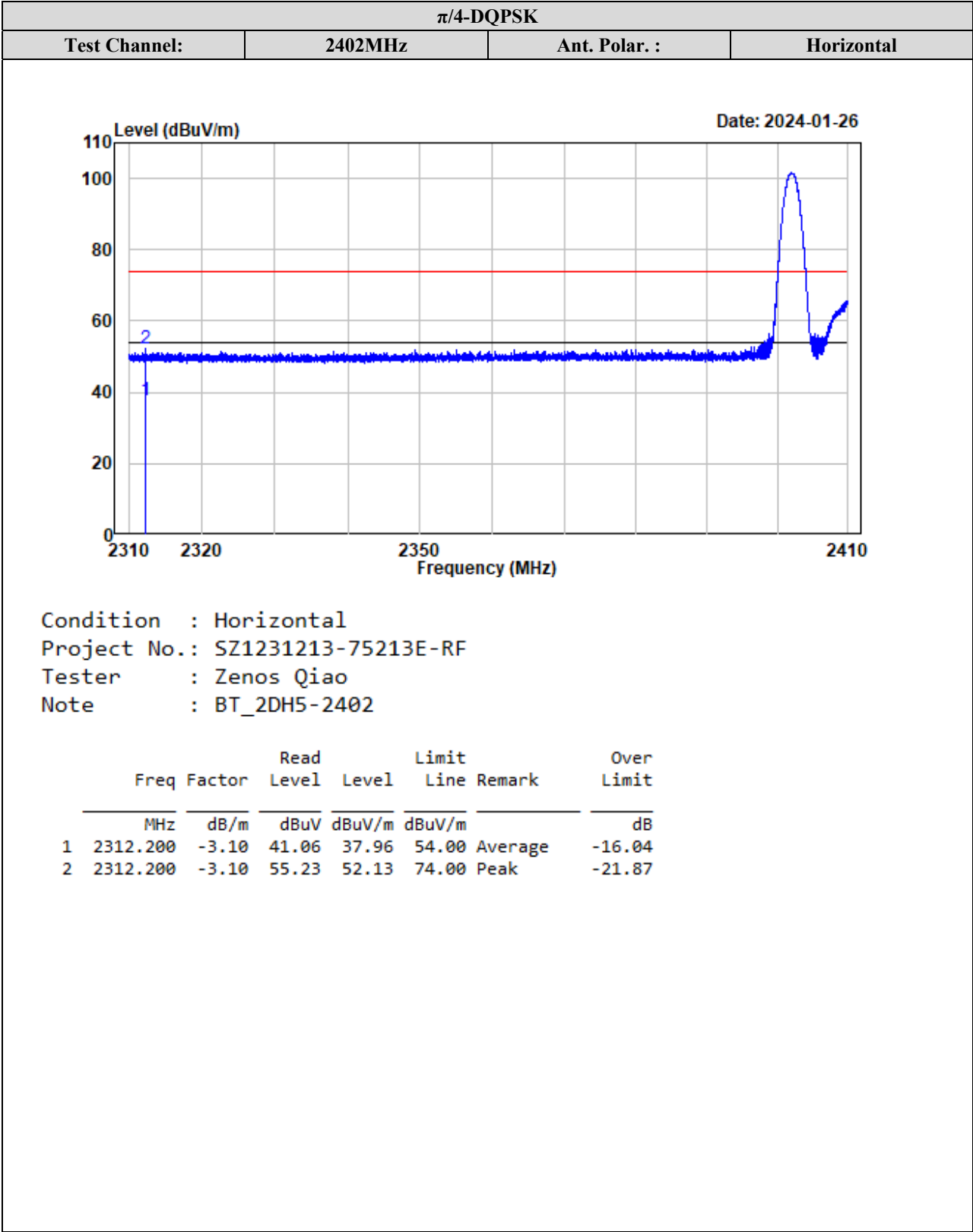
Test plots for Band Edge Measurements (Radiated):

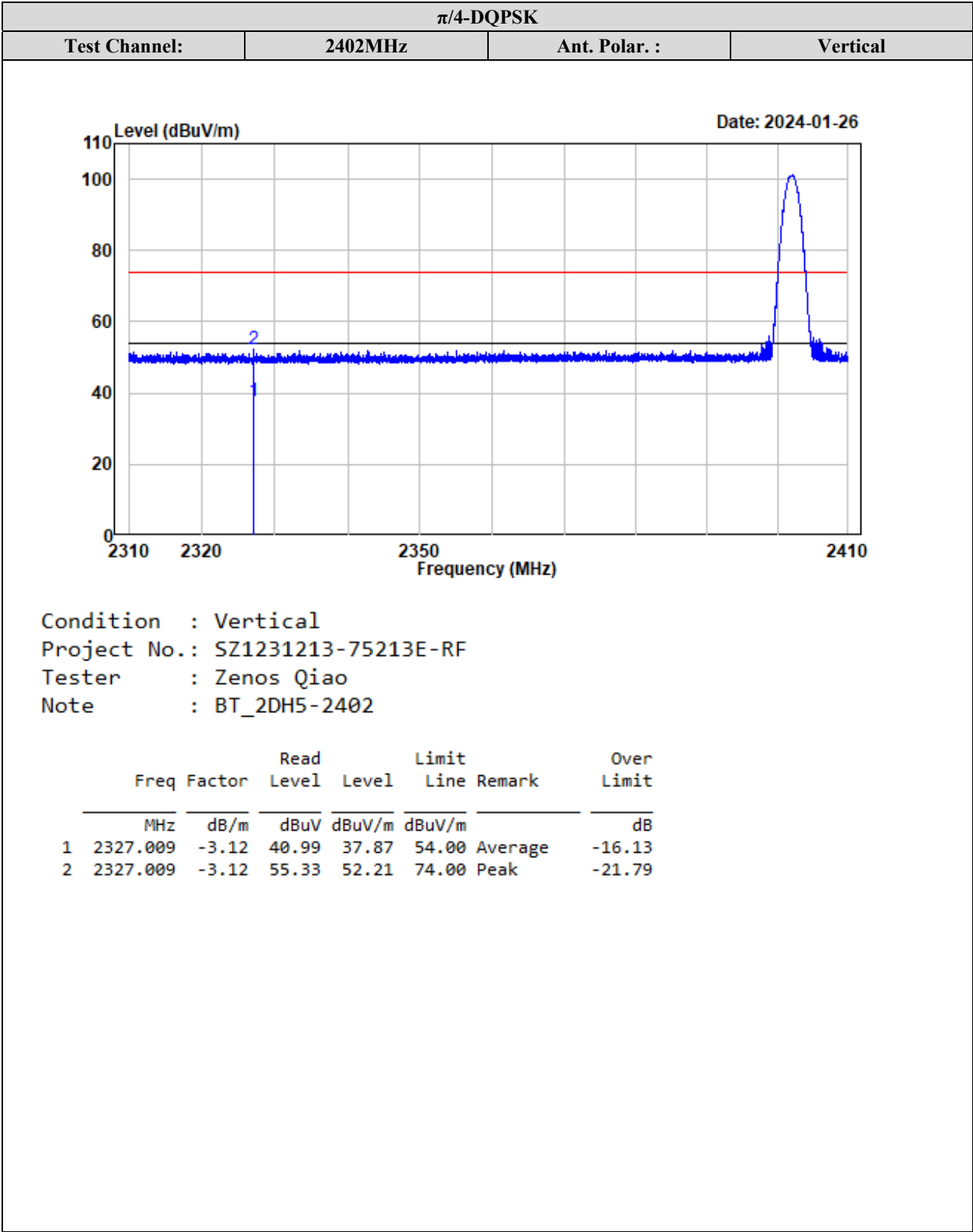


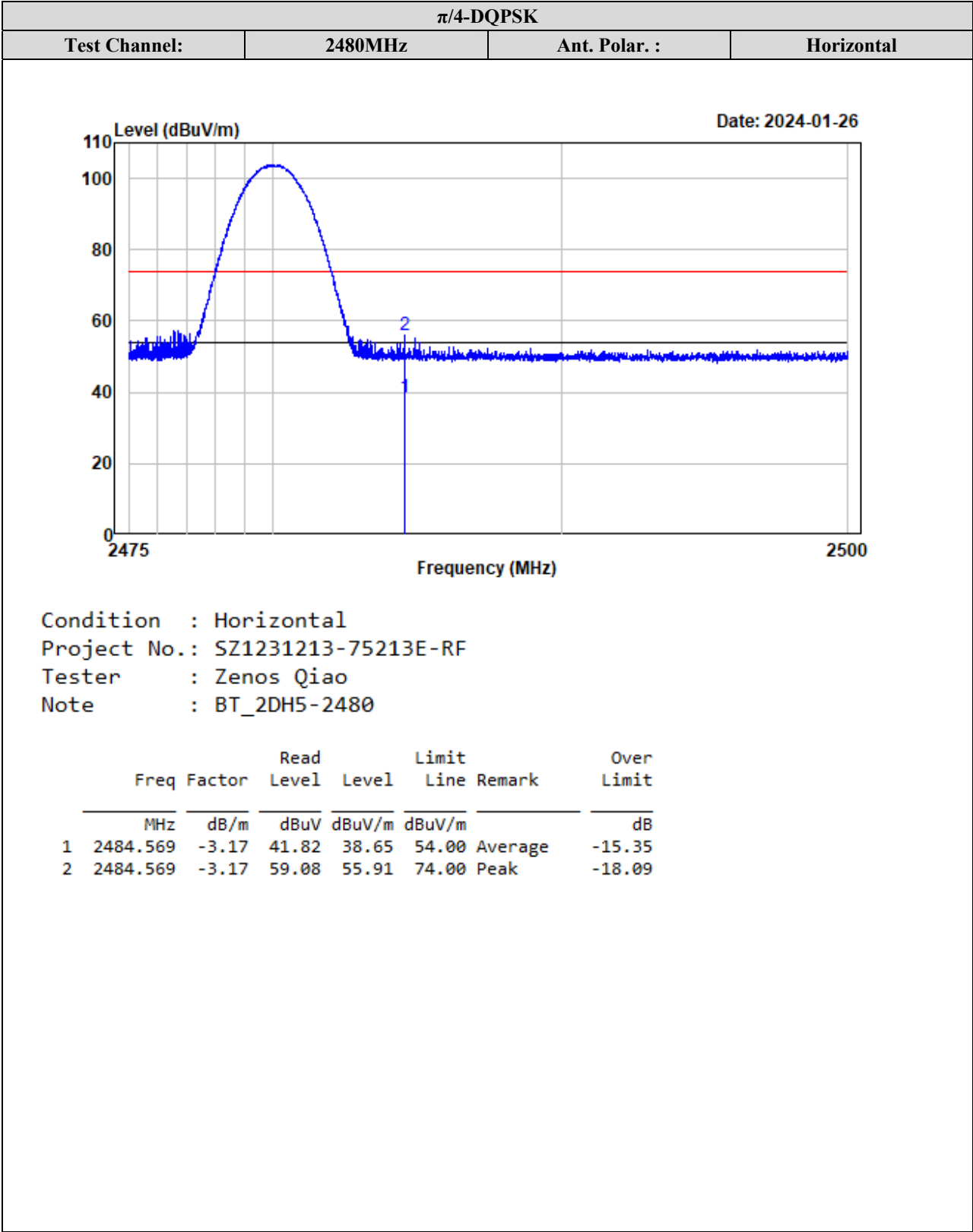


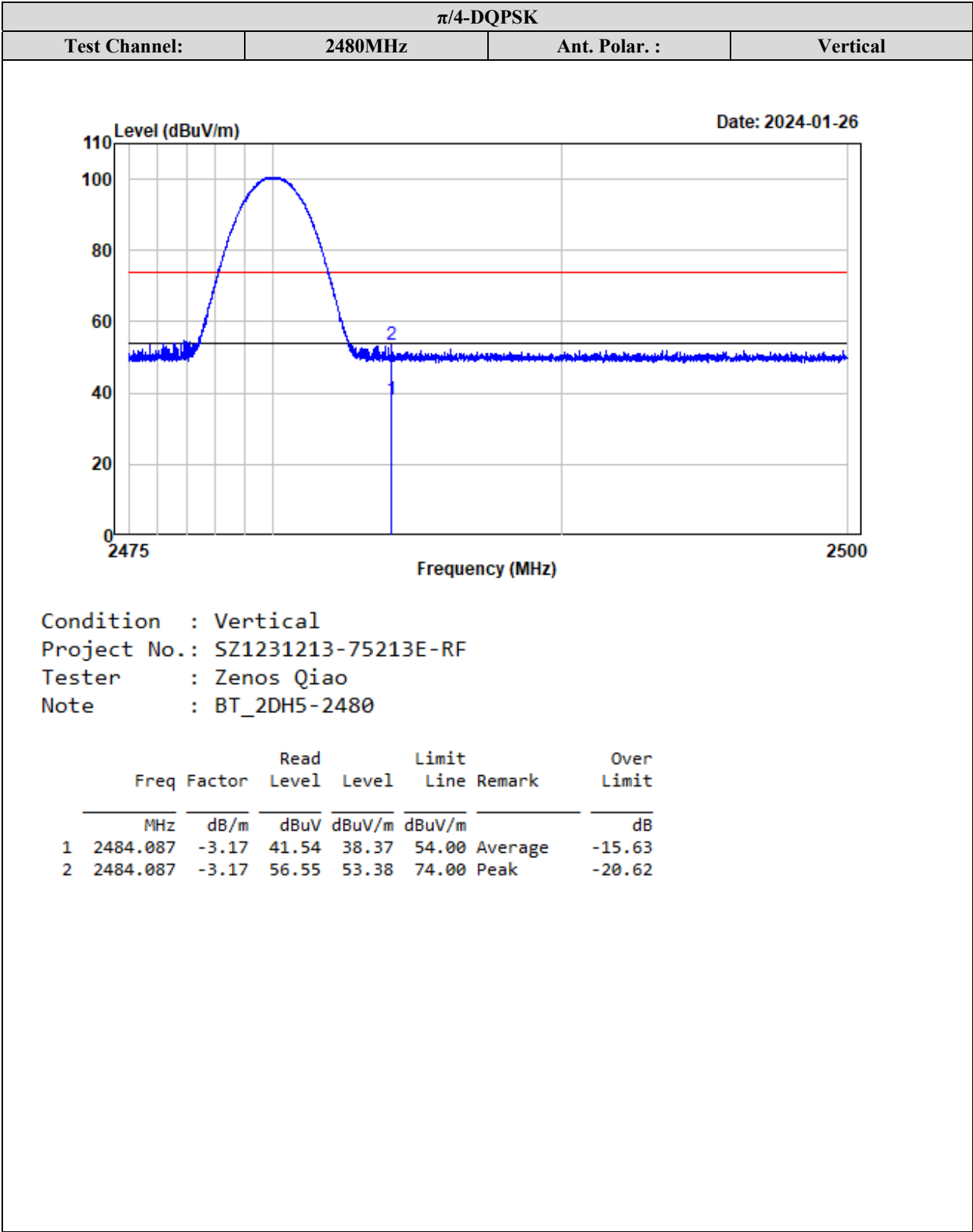


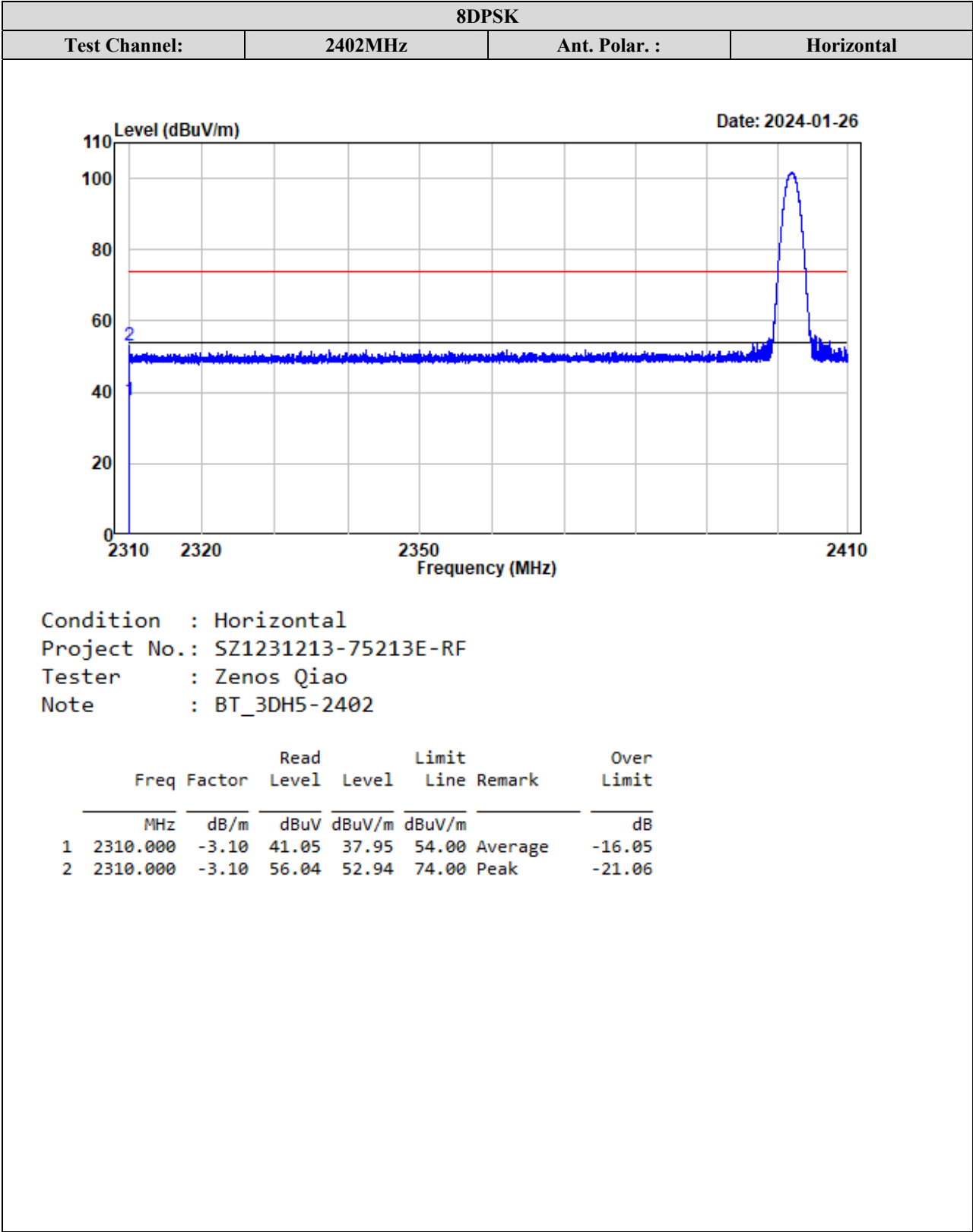


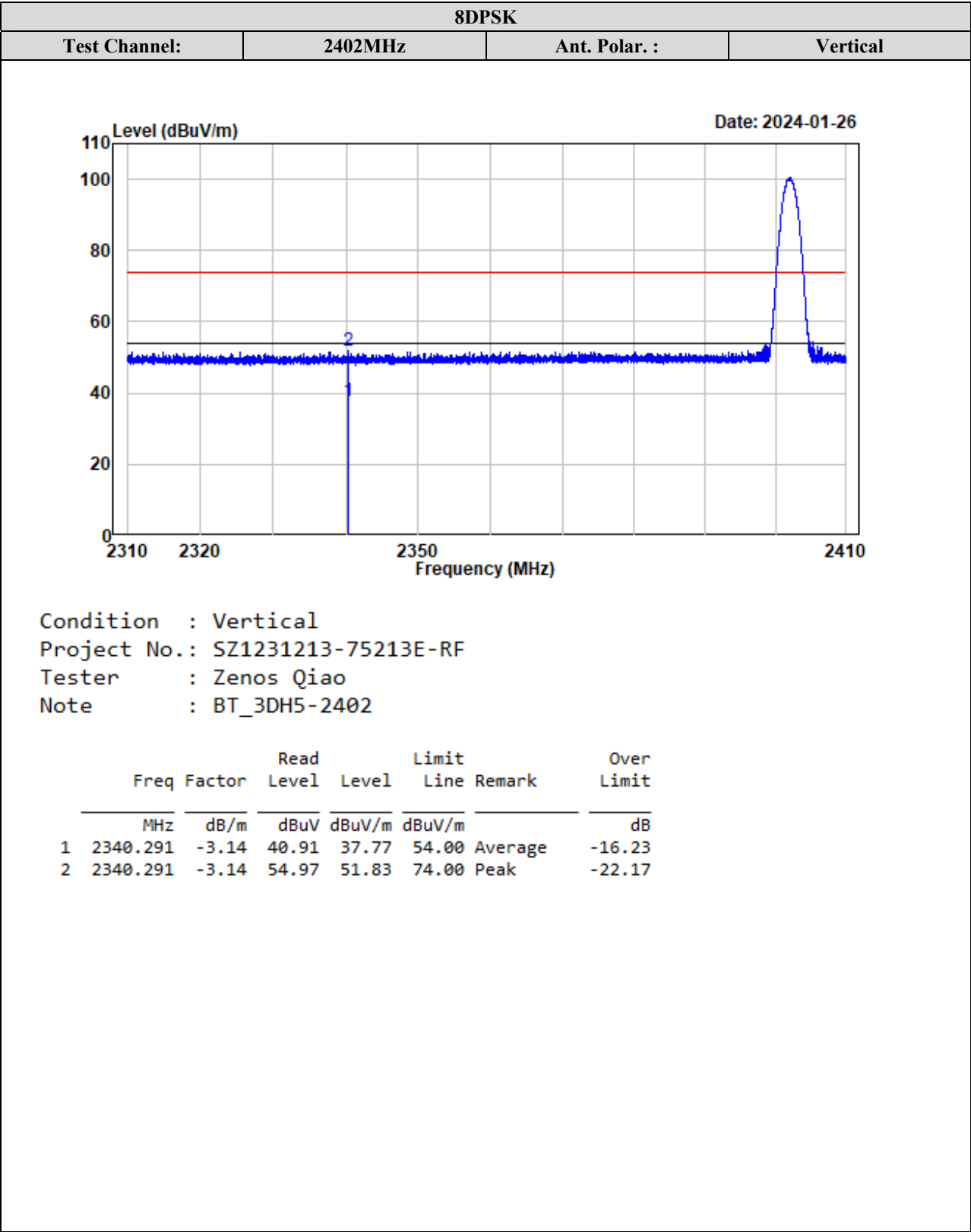


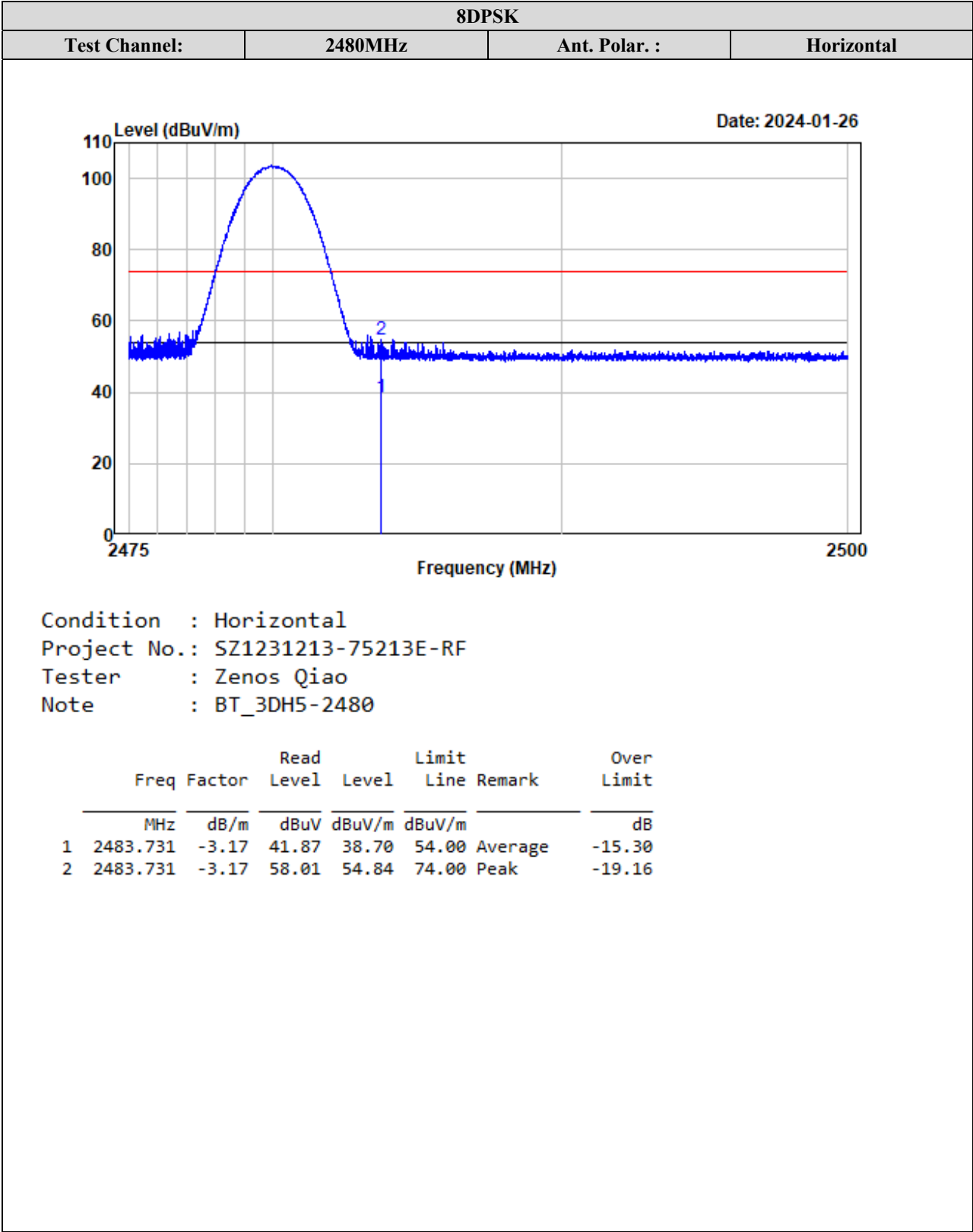


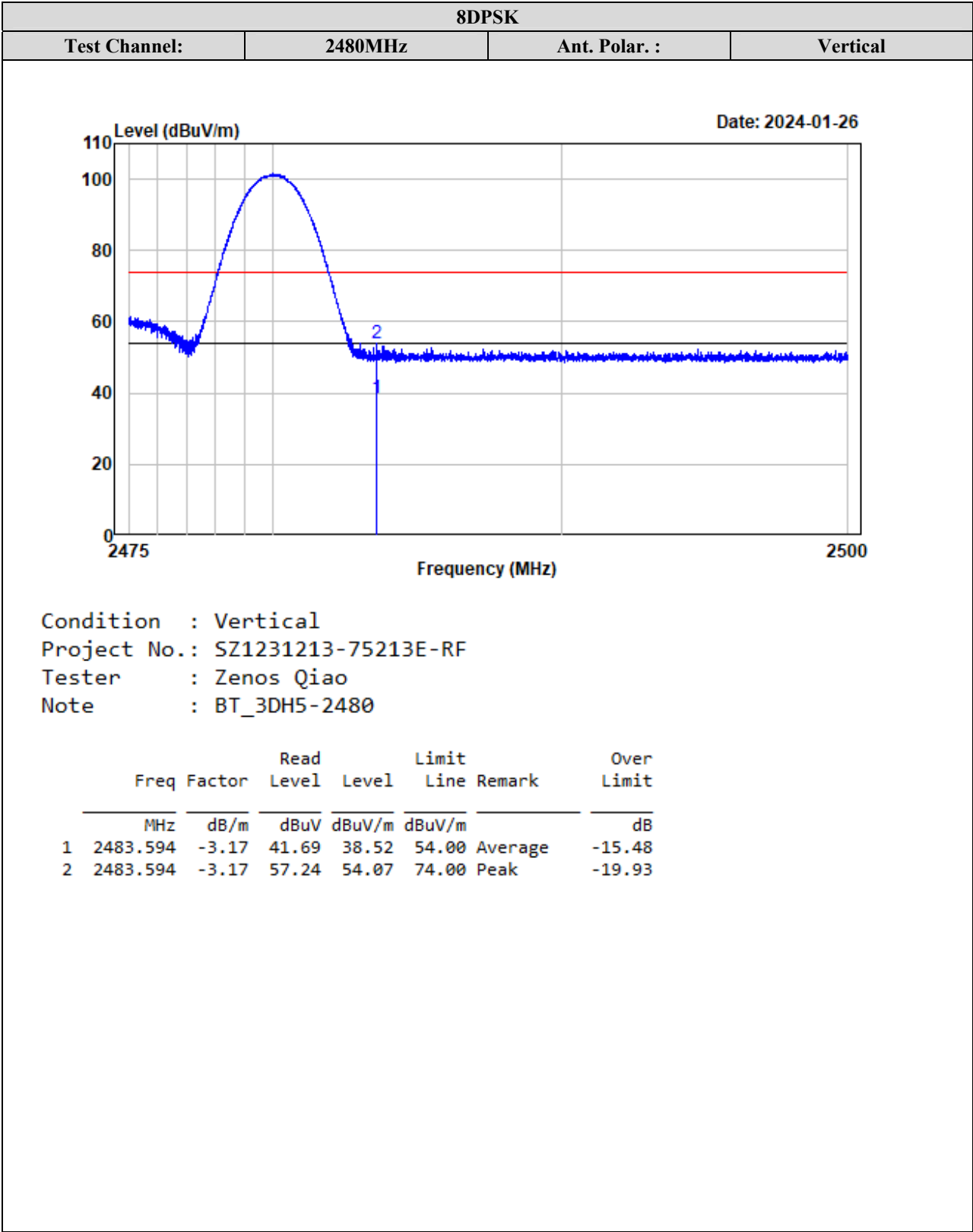






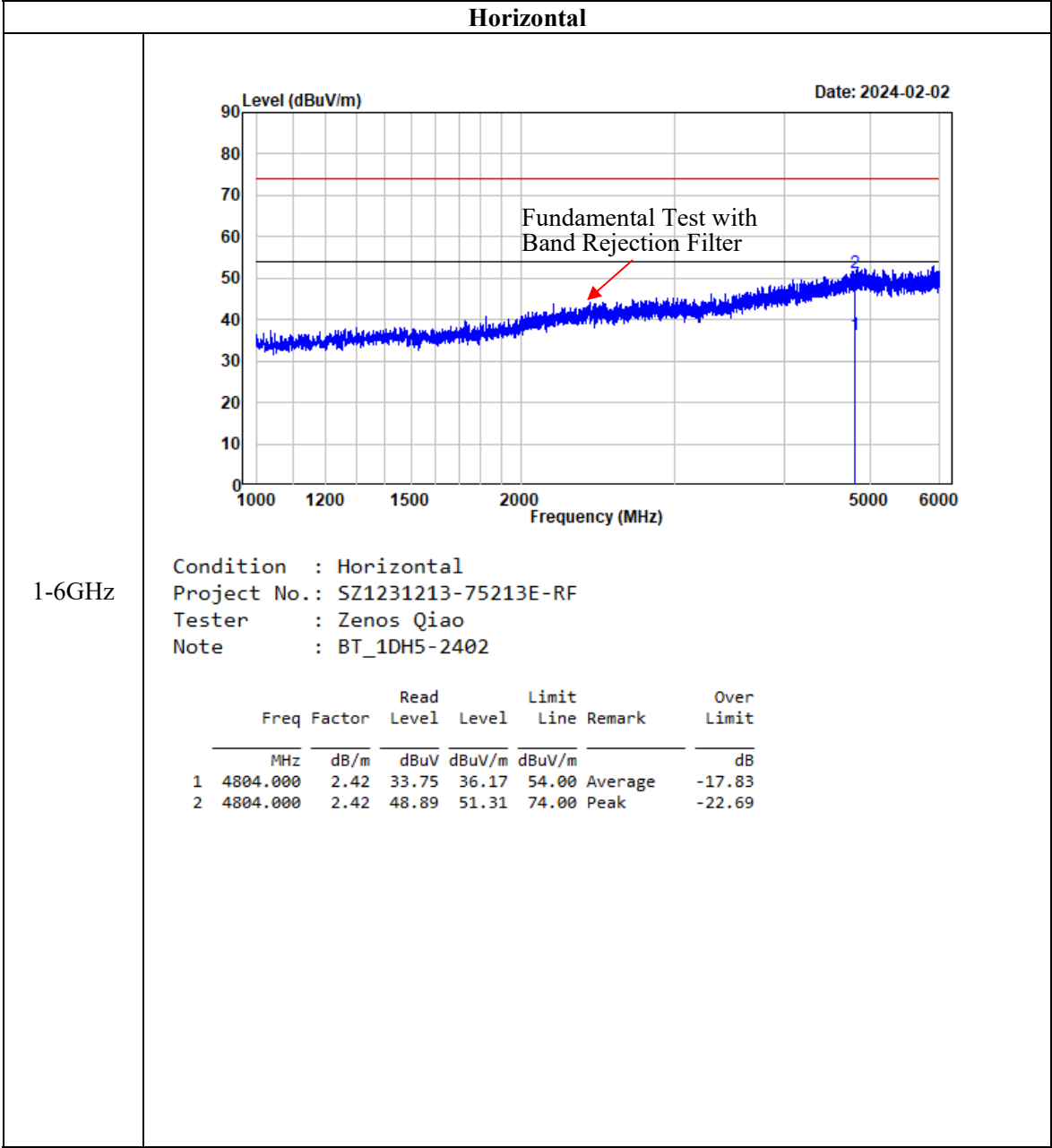


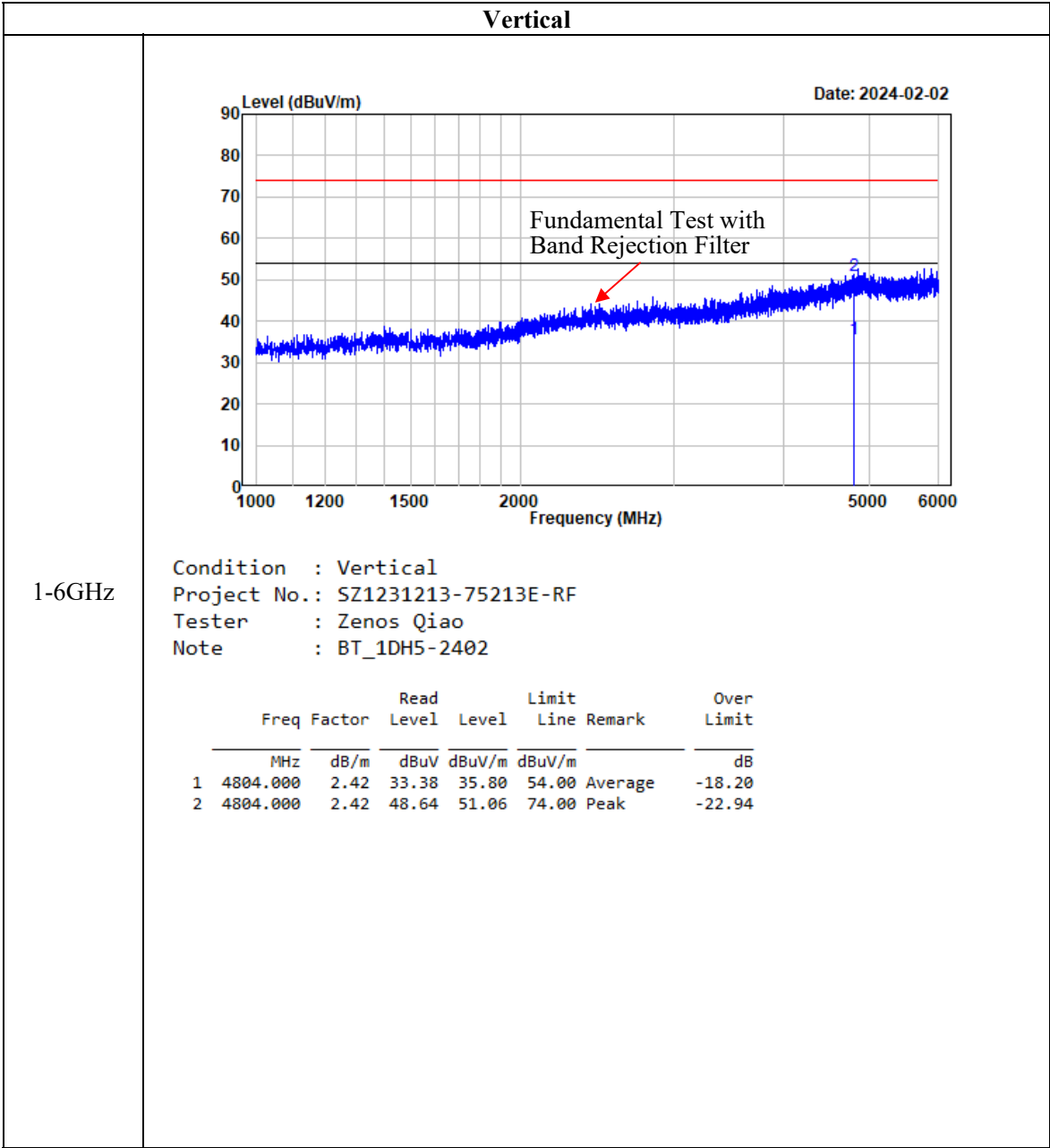


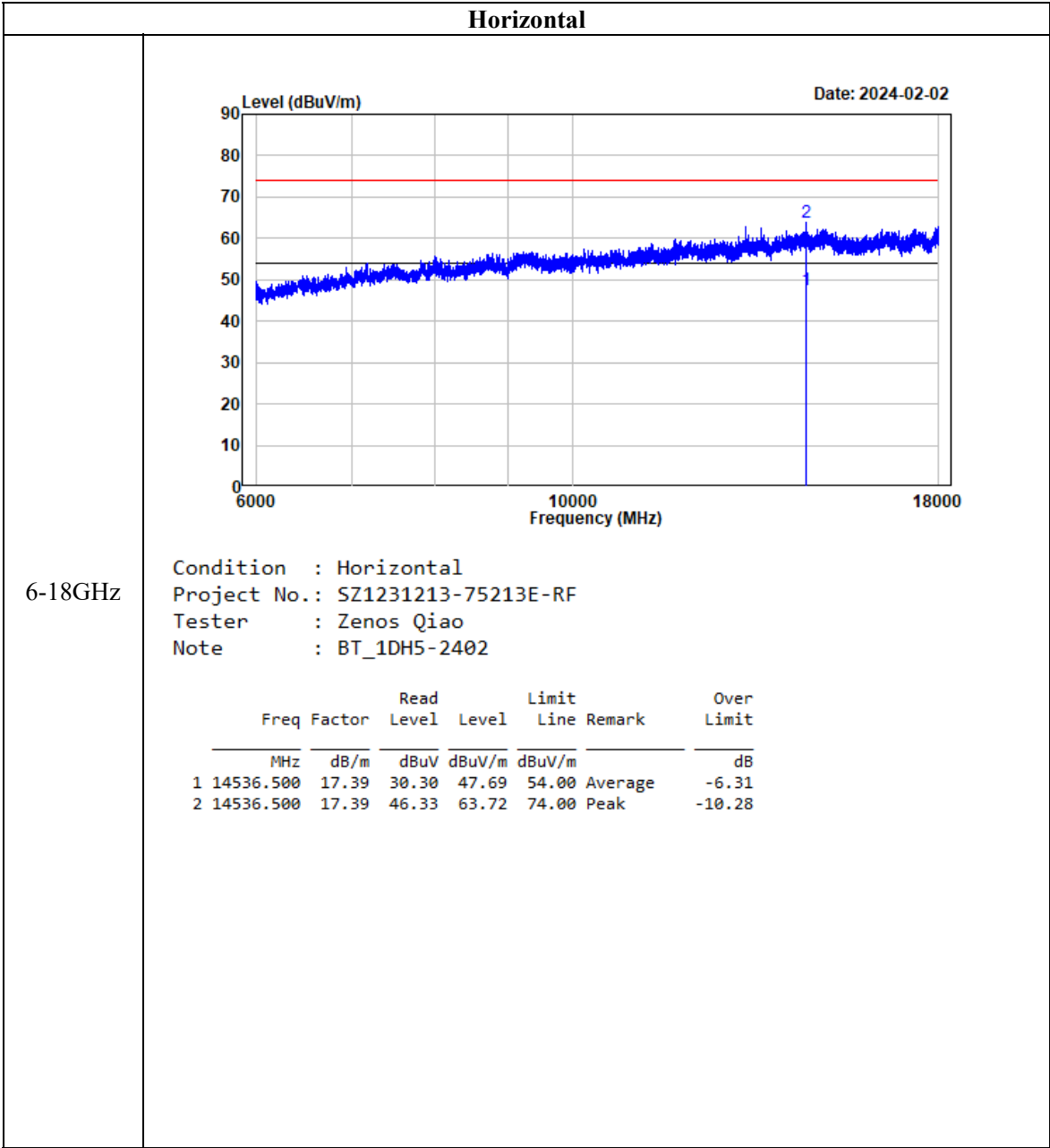


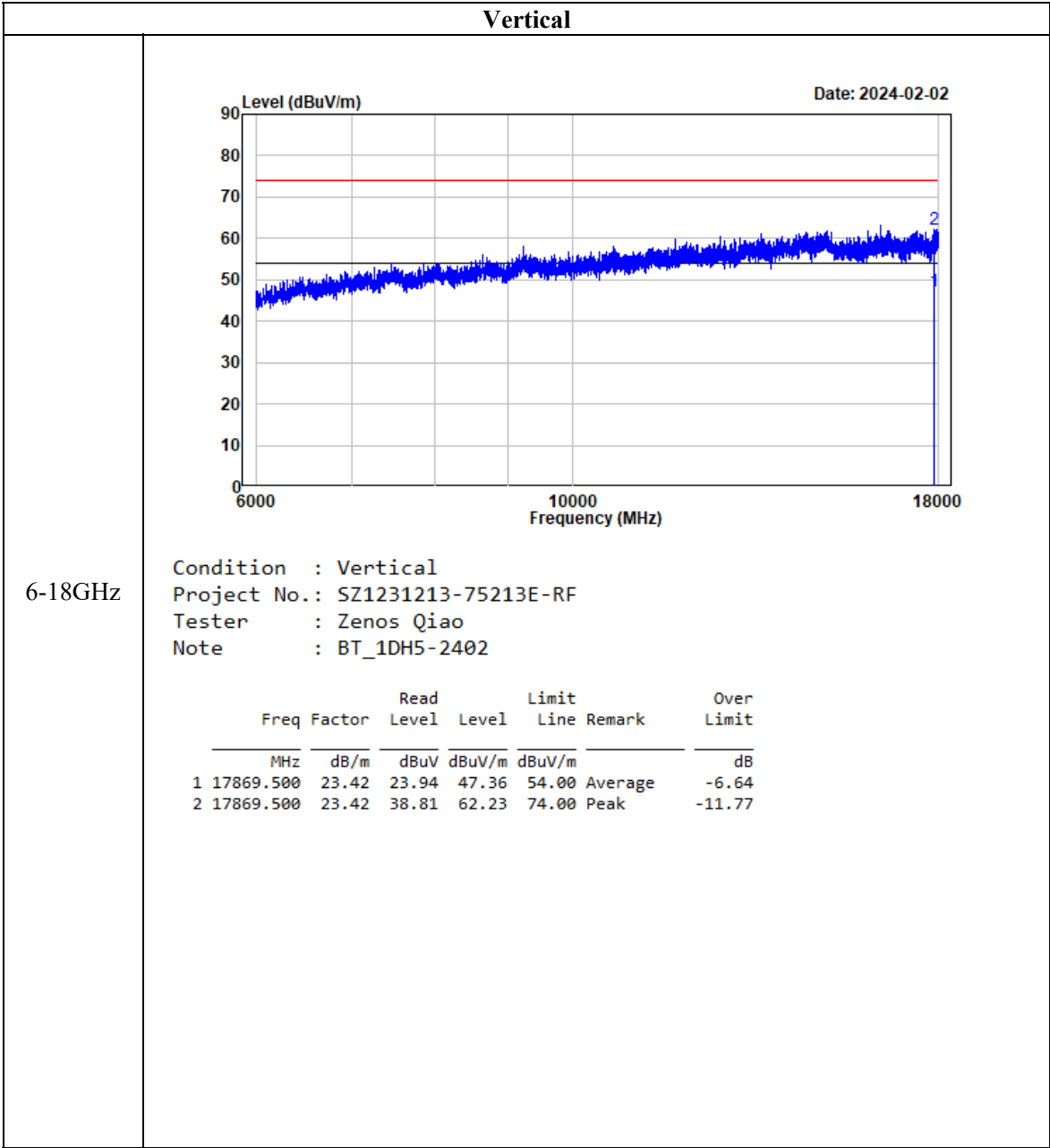
Listed with the worst harmonic margin test plot:

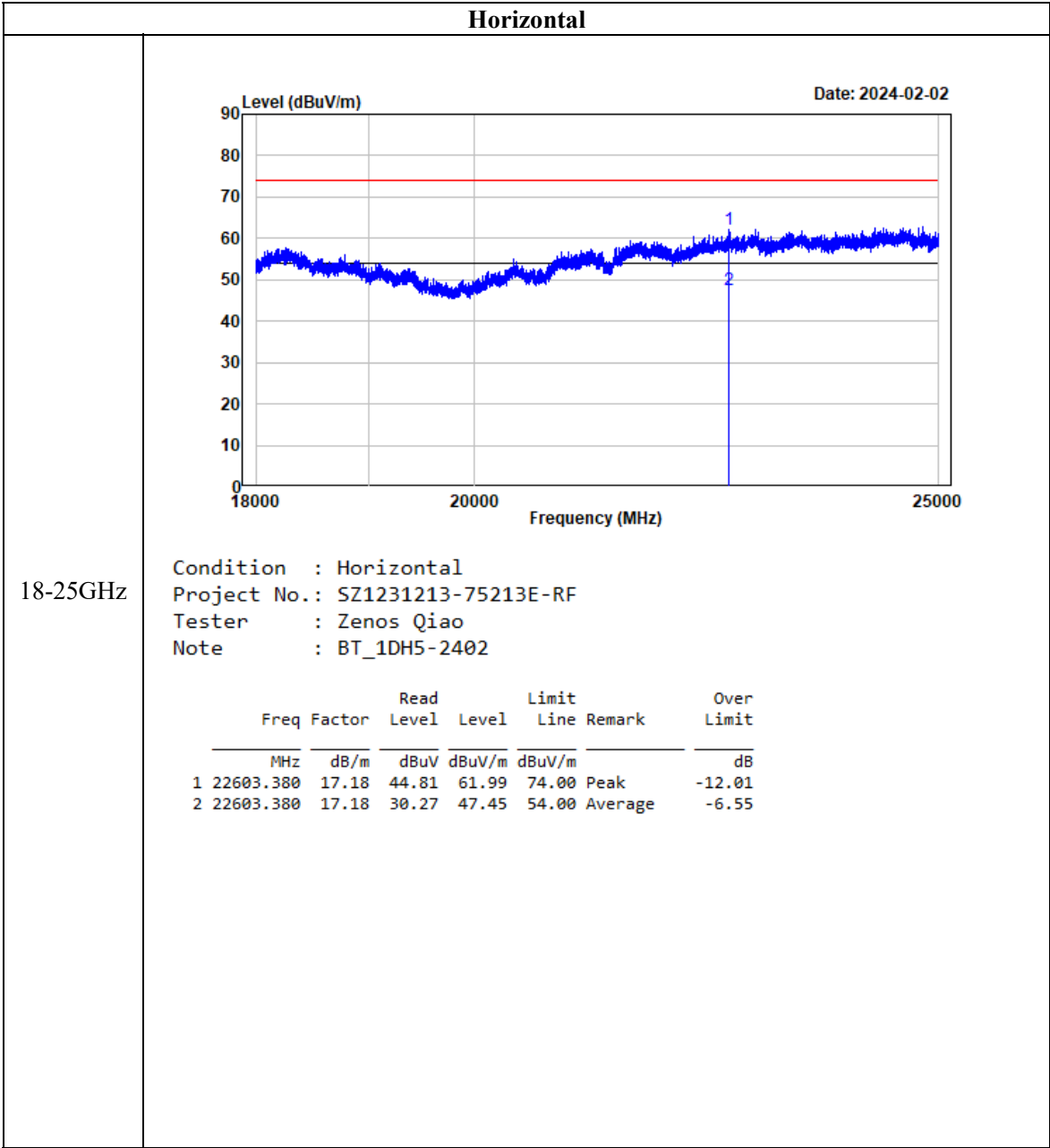
Pre-scan, GFSK Low Channel (worst case)

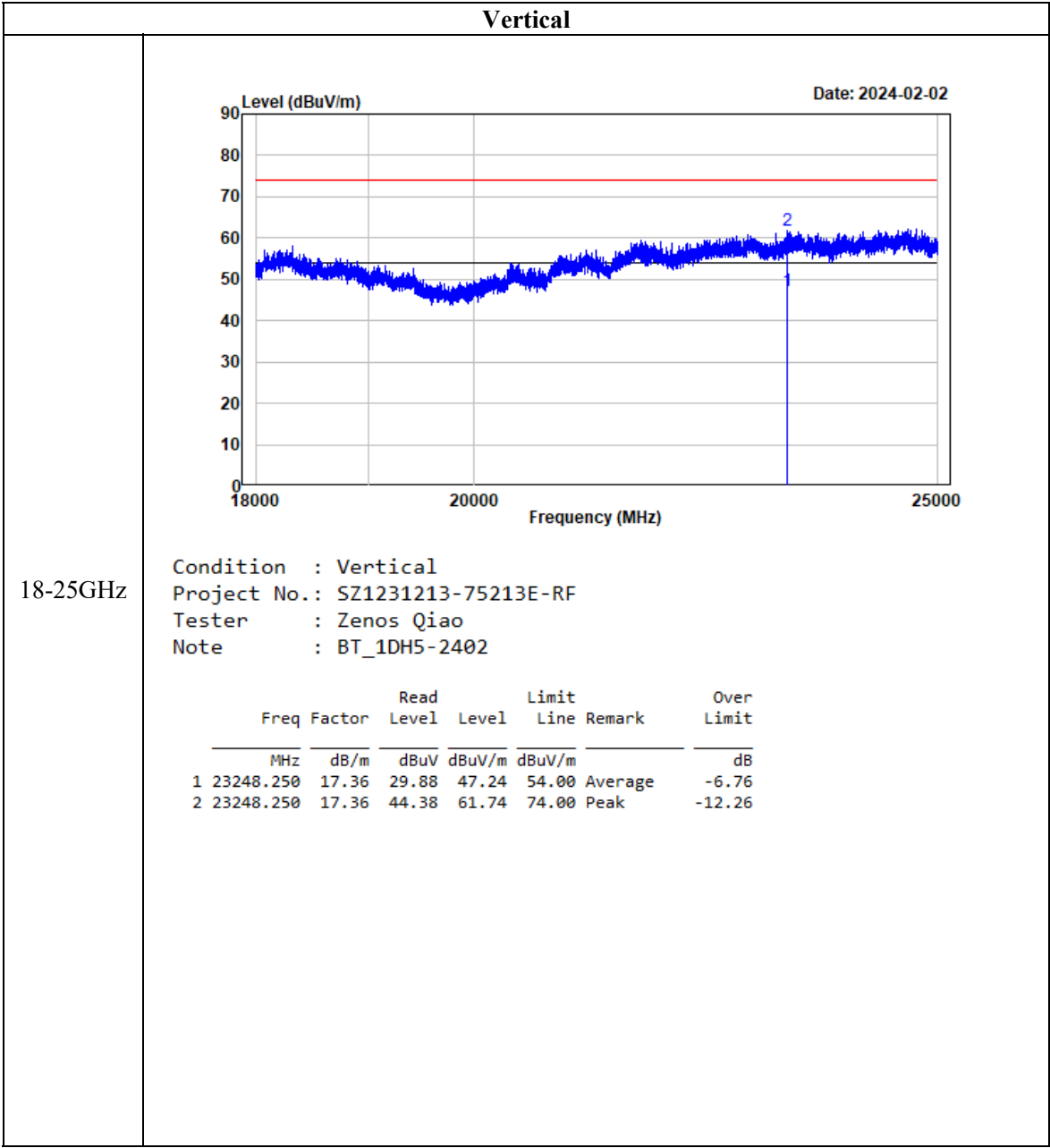












FCC §15.247(a) (1) - CHANNEL SEPARATION TEST

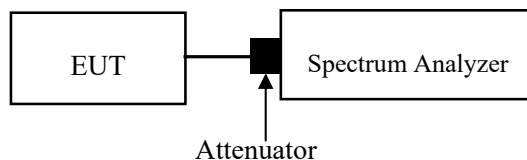
Applicable Standard

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. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

Test Procedure

Test Method: ANSI C63.10-2013 Clause 7.8.2

1. Set the EUT in transmitting mode, maxhold the channel.
2. Set the adjacent channel of the EUT and maxhold another trace.
3. Measure the channel separation.



Test Data

Environmental Conditions

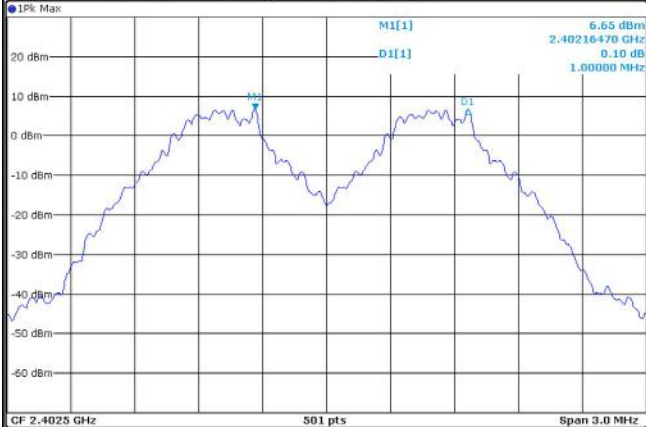
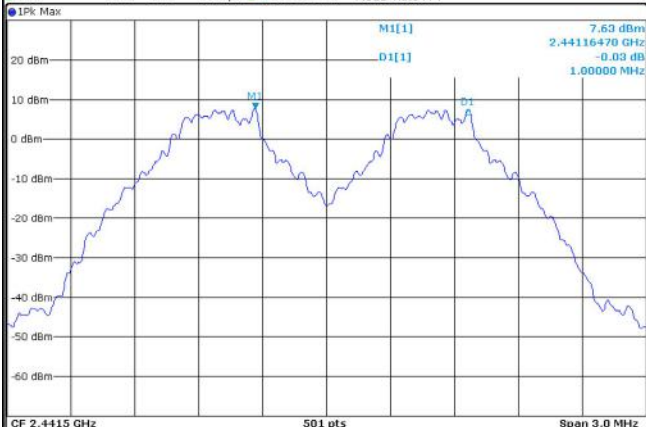
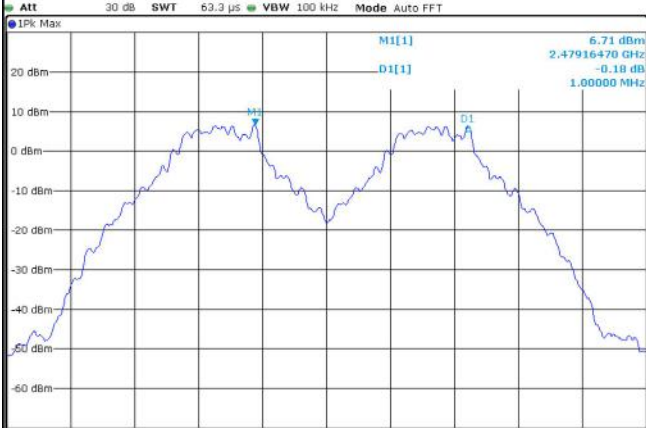
Temperature:	22.8 °C
Relative Humidity:	49 %
ATM Pressure:	101 kPa

The testing was performed by Bamboo Zhan on 2024-01-29.

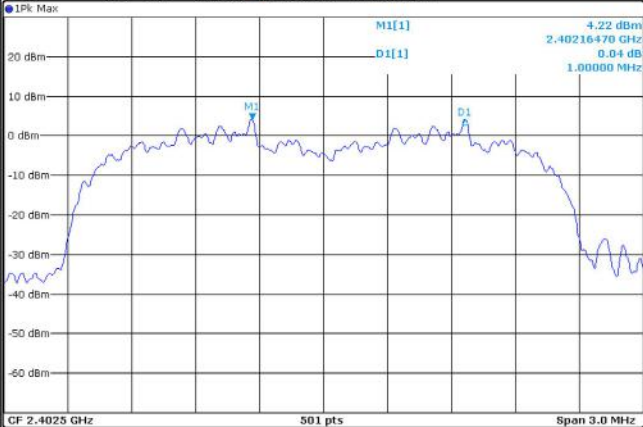
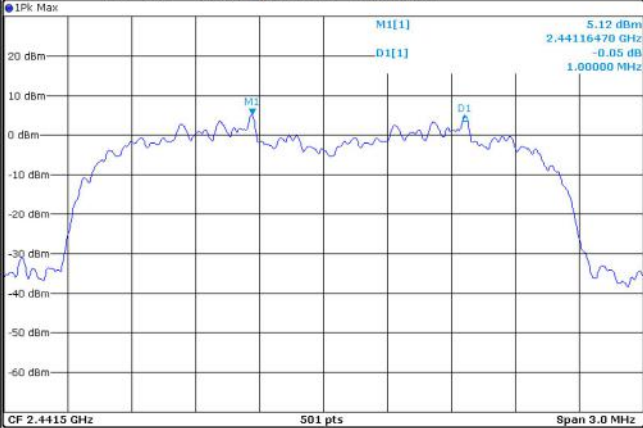
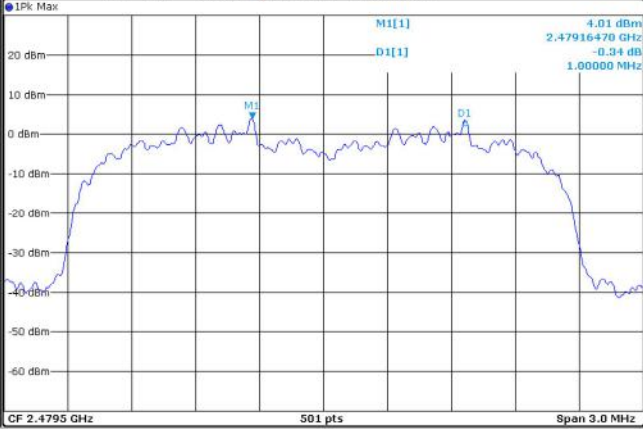
EUT operation mode: Transmitting

Test Result: Compliant.

Test Modes	Test Frequency (MHz)	Channel Separation (MHz)	Limits (MHz)
BDR Mode (GFSK)	2402	1	0.573
	2441	1	0.573
	2480	1	0.576
EDR Mode ($\pi/4$ -DQPSK)	2402	1	0.877
	2441	1	0.880
	2480	1	0.880
EDR Mode (8DPSK)	2402	1	0.867
	2441	1	0.867
	2480	1	0.867

Low Channel	BDR Mode (GFSK) Spectrum Ref Level 30.00 dBm Offset 10.50 dB RBW 30 kHz Att 30 dB SWT 63.3 μs VBW 100 kHz Mode Auto FFT 1Pk Max M1[1] 6.65 dBm D1[1] 2.40216470 GHz 0.10 dB 1.000000 MHz  CF 2.4025 GHz 501 pts Span 3.0 MHz ProjectNo.:SZ1231213-75213E Tester:Bamboo Zhan Date: 29.JAN.2024 16:32:04
Middle Channel	Spectrum Ref Level 30.00 dBm Offset 10.50 dB RBW 30 kHz Att 30 dB SWT 63.3 μs VBW 100 kHz Mode Auto FFT 1Pk Max M1[1] 7.63 dBm D1[1] 2.44116470 GHz -0.03 dB 1.000000 MHz  CF 2.4415 GHz 501 pts Span 3.0 MHz ProjectNo.:SZ1231213-75213E Tester:Bamboo Zhan Date: 29.JAN.2024 16:29:28
High Channel	Spectrum Ref Level 30.00 dBm Offset 10.50 dB RBW 30 kHz Att 30 dB SWT 63.3 μs VBW 100 kHz Mode Auto FFT 1Pk Max M1[1] 6.71 dBm D1[1] 2.47916470 GHz -0.18 dB 1.000000 MHz  CF 2.4795 GHz 501 pts Span 3.0 MHz ProjectNo.:SZ1231213-75213E Tester:Bamboo Zhan Date: 29.JAN.2024 16:30:20



EDR Mode (8DPSK)	
Low Channel	Spectrum Ref Level 30.00 dBm Att 30 dB Offset 10.50 dB SWT 63.3 μs RBW 30 kHz VBW 100 kHz Mode Auto FFT 1Pk Max M1[1] D1[1] 4.22 dBm 2.40216470 GHz 0.04 dB 1.000000 MHz  CF 2.4025 GHz501 ptsSpan 3.0 MHz ProjectNo.:SZ1231213-75213E Tester:Bamboo Zhan Date: 29.JAN.2024 16:22:34
Middle Channel	Spectrum Ref Level 30.00 dBm Att 30 dB Offset 10.50 dB SWT 63.3 μs RBW 30 kHz VBW 100 kHz Mode Auto FFT 1Pk Max M1[1] D1[1] 5.12 dBm 2.44116470 GHz -0.05 dB 1.000000 MHz  CF 2.4415 GHz501 ptsSpan 3.0 MHz ProjectNo.:SZ1231213-75213E Tester:Bamboo Zhan Date: 29.JAN.2024 16:21:46
High Channel	Spectrum Ref Level 30.00 dBm Att 30 dB Offset 10.50 dB SWT 63.3 μs RBW 30 kHz VBW 100 kHz Mode Auto FFT 1Pk Max M1[1] D1[1] 4.01 dBm 2.47916470 GHz -0.34 dB 1.000000 MHz  CF 2.4795 GHz501 ptsSpan 3.0 MHz ProjectNo.:SZ1231213-75213E Tester:Bamboo Zhan Date: 29.JAN.2024 16:20:55

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

Applicable Standard

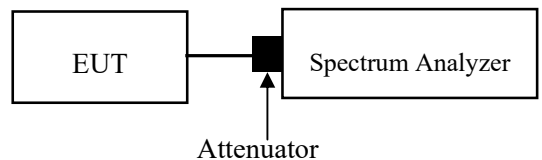
Alternatively, frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than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

Test Procedure

Test Method: ANSI C63.10-2013 Clause 7.8.7 & Clause 6.9.2

The following conditions shall be observed for measuring the occupied bandwidth and 20 dB bandwidth:

- The transmitter shall be operated at its maximum carrier power measured under normal test conditions.
- The span of the spectrum analyzer shall be set large enough to capture all products of the modulation process, including the emission skirts, around the carrier frequency, but small enough to avoid having other emissions (e.g. on adjacent channels) within the span.
- The detector of the spectrum analyzer shall be set to “Sample”. However, a peak, or peak hold, may be used in place of the sampling detector since this usually produces a wider bandwidth than the actual bandwidth (worst-case measurement). Use of a peak hold (or “Max Hold”) may be necessary to determine the occupied / 20 dB bandwidth if the device is not transmitting continuously.
- The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW/ 20dB bandwidth and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement.



Test Data

Environmental Conditions

Temperature:	22.8 °C
Relative Humidity:	49 %
ATM Pressure:	101 kPa

The testing was performed by Bamboo Zhan on 2024-01-29.

EUT operation mode: Transmitting

Test Result: Compliant.

Test Modes	Test Channel	Test Frequency (MHz)	20 dB Bandwidth (MHz)
BDR Mode (GFSK)	Lowest	2402	0.860
	Middle	2441	0.860
	Highest	2480	0.864
EDR Mode ($\pi/4$ -DQPSK)	Lowest	2402	1.316
	Middle	2441	1.320
	Highest	2480	1.320
EDR Mode (8DPSK)	Lowest	2402	1.300
	Middle	2441	1.300
	Highest	2480	1.300

20 dB Bandwidth

BDR Mode (GFSK)	
Low Channel	Spectrum Ref Level 30.00 dBm Offset 10.50 dB RBW 30 kHz Att 30 dB SWT 63.1 μs VBW 100 kHz Mode Auto FFT 1Pk Max M1[1] -13.08 dBm 2.40155200 GHz -0.07 dB 860.00 kHz D1 6.820 dBm D2 -13.180 dBm CF 2.402 GHz 501 pts Span 2.0 MHz ProjectNo.:SZ1231213-75213E Tester:Bamboo Zhan Date: 29.JAN.2024 16:07:54
Middle Channel	Spectrum Ref Level 30.00 dBm Offset 10.50 dB RBW 30 kHz Att 30 dB SWT 63.1 μs VBW 100 kHz Mode Auto FFT 1Pk Max M1[1] -12.29 dBm 2.44055200 GHz -0.08 dB 860.00 kHz D1 7.600 dBm D2 -12.400 dBm CF 2.441 GHz 501 pts Span 2.0 MHz ProjectNo.:SZ1231213-75213E Tester:Bamboo Zhan Date: 29.JAN.2024 16:11:15
High Channel	Spectrum Ref Level 30.00 dBm Offset 10.50 dB RBW 30 kHz Att 30 dB SWT 63.1 μs VBW 100 kHz Mode Auto FFT 1Pk Max M1[1] -13.66 dBm 2.47954800 GHz 0.15 dB 864.00 kHz D1 6.410 dBm D2 -13.590 dBm CF 2.48 GHz 501 pts Span 2.0 MHz ProjectNo.:SZ1231213-75213E Tester:Bamboo Zhan Date: 29.JAN.2024 16:12:19

Version 1.0 (2023/10/07)

EDR Mode (8DPSK)	
Low Channel	Spectrum Ref Level 30.00 dBm Offset 10.50 dB RBW 30 kHz Att 30 dB SWT 63.1 μs VBW 100 kHz Mode Auto FFT 1Pk Max M1[1] -15.46 dBm 2.40133200 GHz -0.38 dB 1.30000 MHz D1 4.150 dBm D2 -15.050 dBm M2 D1 CF 2.402 GHz 501 pts Span 2.0 MHz ProjectNo.:SZ1231213-75213E Tester:Baaboo Zhan Date: 29.JAN.2024 16:17:49
Middle Channel	Spectrum Ref Level 30.00 dBm Offset 10.50 dB RBW 30 kHz Att 30 dB SWT 63.1 μs VBW 100 kHz Mode Auto FFT 1Pk Max M1[1] -14.58 dBm 2.44033200 GHz -0.49 dB 1.30000 MHz D1 5.120 dBm D2 -14.880 dBm M2 D1 CF 2.441 GHz 501 pts Span 2.0 MHz ProjectNo.:SZ1231213-75213E Tester:Baaboo Zhan Date: 29.JAN.2024 16:16:45
High Channel	Spectrum Ref Level 30.00 dBm Offset 10.50 dB RBW 30 kHz Att 30 dB SWT 63.1 μs VBW 100 kHz Mode Auto FFT 1Pk Max M1[1] -15.82 dBm 2.47933200 GHz -0.47 dB 1.30000 MHz D1 3.760 dBm D2 -16.240 dBm M2 D1 CF 2.48 GHz 501 pts Span 2.0 MHz ProjectNo.:SZ1231213-75213E Tester:Baaboo Zhan Date: 29.JAN.2024 16:19:22

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

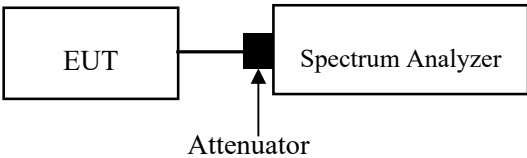
Applicable Standard

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.

Test Procedure

Test Method: ANSI C63.10-2013 Clause 7.8.3

- 1. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
- 2. Set the EUT in hopping mode from first channel to last.
- 3. By using the max-hold function record the quantity of the channel.



Test Data

Environmental Conditions

Temperature:	22.8 °C
Relative Humidity:	49 %
ATM Pressure:	101 kPa

The testing was performed by Bamboo Zhan on 2024-01-29.

EUT operation mode: Transmitting

Test Result: Compliant.

Test Modes	Frequency Range (MHz)	Number of Hopping Channel	Limits
GFSK	2400-2483.5	79	≥15
π/4-DQPSK	2400-2483.5	79	≥15
8DPSK	2400-2483.5	79	≥15

Hopping Channel	
GFSK	Spectrum Ref Level 30.00 dBm Offset 10.50 dB RBW 100 kHz Att 30 dB SWT 94.8 μs VBW 300 kHz Mode Auto FFT 1Pk Max M1[1] 7.92 dBm D1[1] 2.401920 GHz 0.19 dB 78.000 MHz Start 2.4 GHz 501 pts Stop 2.4835 GHz ProjectNo.:SZ1231213-75213E Tester:Banboo Zhan Date: 29.JAN.2024 17:09:45
$\pi/4$ -DQPSK	Spectrum Ref Level 30.00 dBm Offset 10.50 dB RBW 100 kHz Att 30 dB SWT 94.8 μs VBW 300 kHz Mode Auto FFT 1Pk Max M1[1] 5.08 dBm D1[1] 2.401920 GHz 0.66 dB 78.160 MHz Start 2.4 GHz 501 pts Stop 2.4835 GHz ProjectNo.:SZ1231213-75213E Tester:Banboo Zhan Date: 29.JAN.2024 17:07:27
8DPSK	Spectrum Ref Level 30.00 dBm Offset 10.50 dB RBW 100 kHz Att 30 dB SWT 94.8 μs VBW 300 kHz Mode Auto FFT 1Pk Max M1[1] 4.99 dBm D1[1] 2.402080 GHz 0.26 dB 77.840 MHz Start 2.4 GHz 501 pts Stop 2.4835 GHz ProjectNo.:SZ1231213-75213E Tester:Banboo Zhan Date: 29.JAN.2024 16:53:39

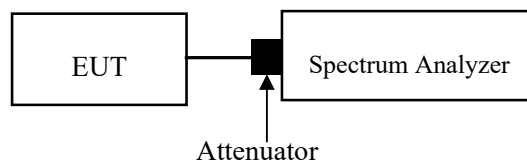
FCC §15.247(a) (1) (iii) - TIME OF OCCUPANCY (DWELL TIME)**Applicable Standard**

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.

Test Procedure

Test Method: ANSI C63.10-2013 Clause 7.8.4

2. The EUT was worked in channel hopping.
3. Set the RBW to: 1MHz.
4. Set the VBW $\geq 3 \times$ RBW.
5. Set the span to 0Hz.
6. Detector = peak.
7. Sweep time = auto couple.
8. Trace mode = max hold.
9. Allow trace to fully stabilize.
10. Recorded the time of single pulses

**Test Data****Environmental Conditions**

Temperature:	22.8~23 °C
Relative Humidity:	49~70 %
ATM Pressure:	101.0~101.1 kPa

The testing was performed by Bamboo Zhan from 2024-01-29 to 2024-01-31.

EUT operation mode: Transmitting

Test Result: Compliant.

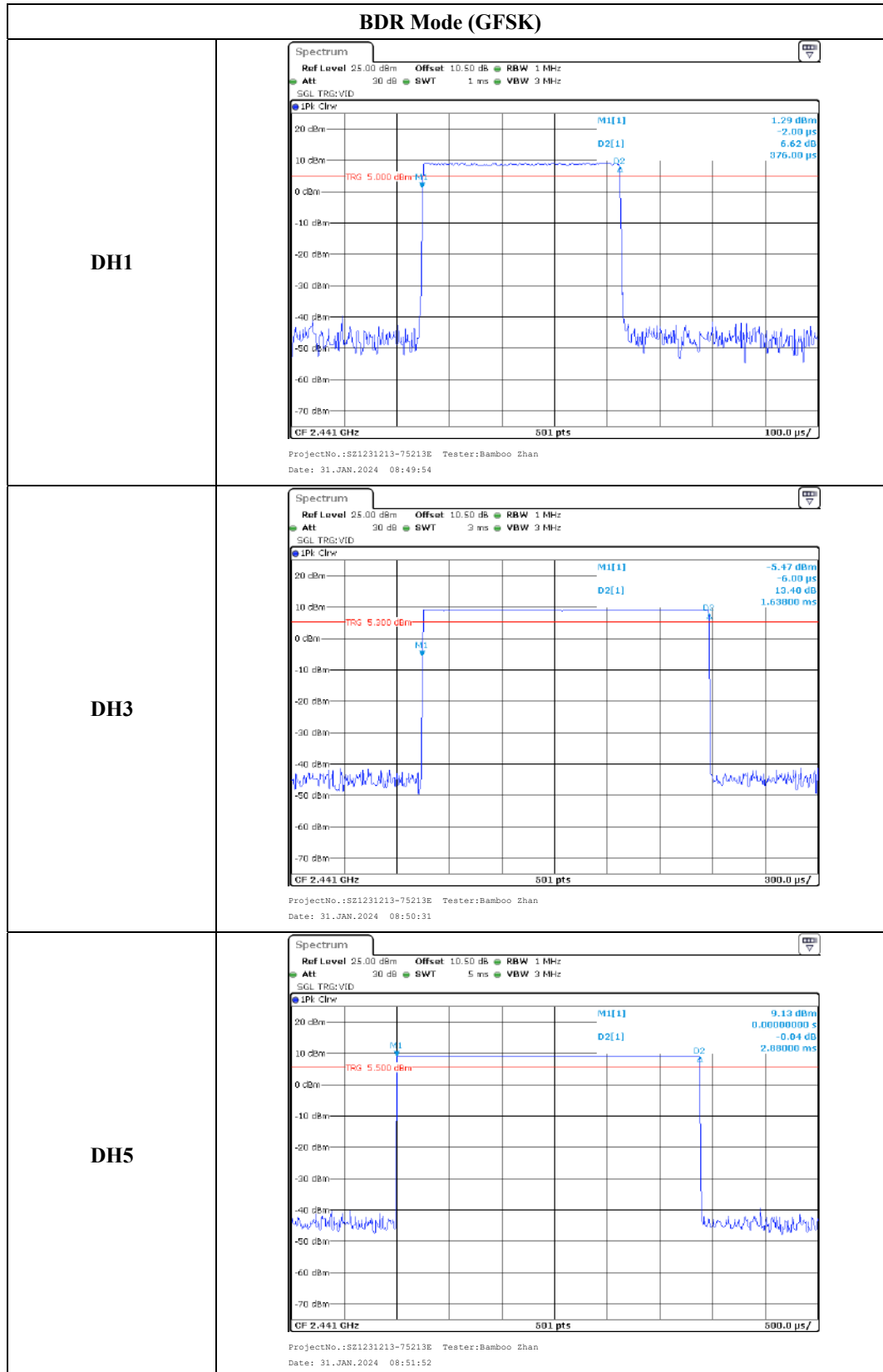
Test Modes	Packet Type	Test Frequency (MHz)	Pulse width (ms)	Result (s)	Limit (s)
BDR Mode (GFSK)	DH1	2441	0.376	0.120	0.400
	DH3	2441	1.638	0.262	0.400
	DH5	2441	2.880	0.307	0.400
EDR Mode ($\pi/4$ -DQPSK)	2DH1	2441	0.384	0.123	0.400
	2DH3	2441	1.638	0.262	0.400
	2DH5	2441	2.880	0.307	0.400
EDR Mode (8DPSK)	3DH1	2441	0.384	0.123	0.400
	3DH3	2441	1.632	0.261	0.400
	3DH5	2441	2.890	0.308	0.400

Note:

DH1:Dwell time=Pulse time (ms) $\times$ (1600/2/79) $\times$ 31.6 s

DH3:Dwell time=Pulse time (ms) $\times$ (1600/4/79) $\times$ 31.6 s

DH5:Dwell time=Pulse time (ms) $\times$ (1600/6/79) $\times$ 31.6 s



2DH1	EDR Mode ($\pi/4$-DQPSK) Spectrum Ref Level 25.00 dBm Offset 10.50 dB RBW 1 MHz Att 30 dB SWT 1 ms VBW 3 MHz SGL TRG:VID IPk Clk M1[1] D2[1] 6.51 dBm -136.00 μs -6.14 dB 384.00 μs TRG 4.700 dBm CF 2.443 GHz 501 pts 100.0 μs/ ProjectNo.:SZ1231213-75213E Tester:Bamboo Zhan Date: 29.JAN.2024 17:17:26
2DH3	Spectrum Ref Level 25.00 dBm Offset 10.50 dB RBW 1 MHz Att 30 dB SWT 2 ms VBW 3 MHz SGL TRG:VID IPk Clk M1[1] D2[1] 0.44 dBm -6.00 μs 7.52 dB 1.63800 ms TRG 4.700 dBm CF 2.443 GHz 501 pts 300.0 μs/ ProjectNo.:SZ1231213-75213E Tester:Bamboo Zhan Date: 29.JAN.2024 17:17:59
2DH5	Spectrum Ref Level 25.00 dBm Offset 10.50 dB RBW 1 MHz Att 30 dB SWT 5 ms VBW 3 MHz SGL TRG:VID IPk Clk D2[1] M1[1] 1.28 dB 2.88000 ms 6.93 dBm 0.00000000 s TRG 4.700 dBm CF 2.443 GHz 501 pts 500.0 μs/ ProjectNo.:SZ1231213-75213E Tester:Bamboo Zhan Date: 29.JAN.2024 17:20:37

3DH1	EDR Mode (8DPSK) Spectrum Ref Level 25.00 dBm Offset 10.50 dB RBW 1 MHz Att 30 dB SWT 1 ms VBW 3 MHz SGL TRG:VID IPk Clr M1[1] 2.59 dBm D2[1] -2.00 ps 4.44 dB 384.00 ps TRG 5.000 dBm CF 2.443 GHz 501 pts 100.0 ps/ ProjectNo.:SZ1231213-75213E Tester:Bamboo Zhan Date: 29.JAN.2024 17:21:17
3DH3	Spectrum Ref Level 25.00 dBm Offset 10.50 dB RBW 1 MHz Att 30 dB SWT 2 ms VBW 3 MHz SGL TRG:VID IPk Clr D2[1] 1.23 dB M1[1] 1.63200 ms D2 5.90 dBm 0.00000000 s TRG 5.100 dBm CF 2.443 GHz 501 pts 300.0 ps/ ProjectNo.:SZ1231213-75213E Tester:Bamboo Zhan Date: 29.JAN.2024 17:22:33
3DH5	Spectrum Ref Level 25.00 dBm Offset 10.50 dB RBW 1 MHz Att 30 dB SWT 5 ms VBW 3 MHz SGL TRG:VID IPk Clr D2[1] 0.63 dB M1[1] 2.89000 ms D2 7.10 dBm 0.00000000 s TRG 5.200 dBm CF 2.443 GHz 501 pts 500.0 ps/ ProjectNo.:SZ1231213-75213E Tester:Bamboo Zhan Date: 29.JAN.2024 17:24:42

FCC §15.247(b) (1) - PEAK OUTPUT POWER MEASUREMENT

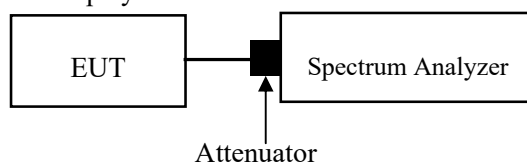
Applicable Standard

According to §15.247(b) (1), for frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725–5850 MHz band: 1 watt. And for all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts.

Test Procedure

Test Method: ANSI C63.10-2013 Clause 7.8.5

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



Test Data

Environmental Conditions

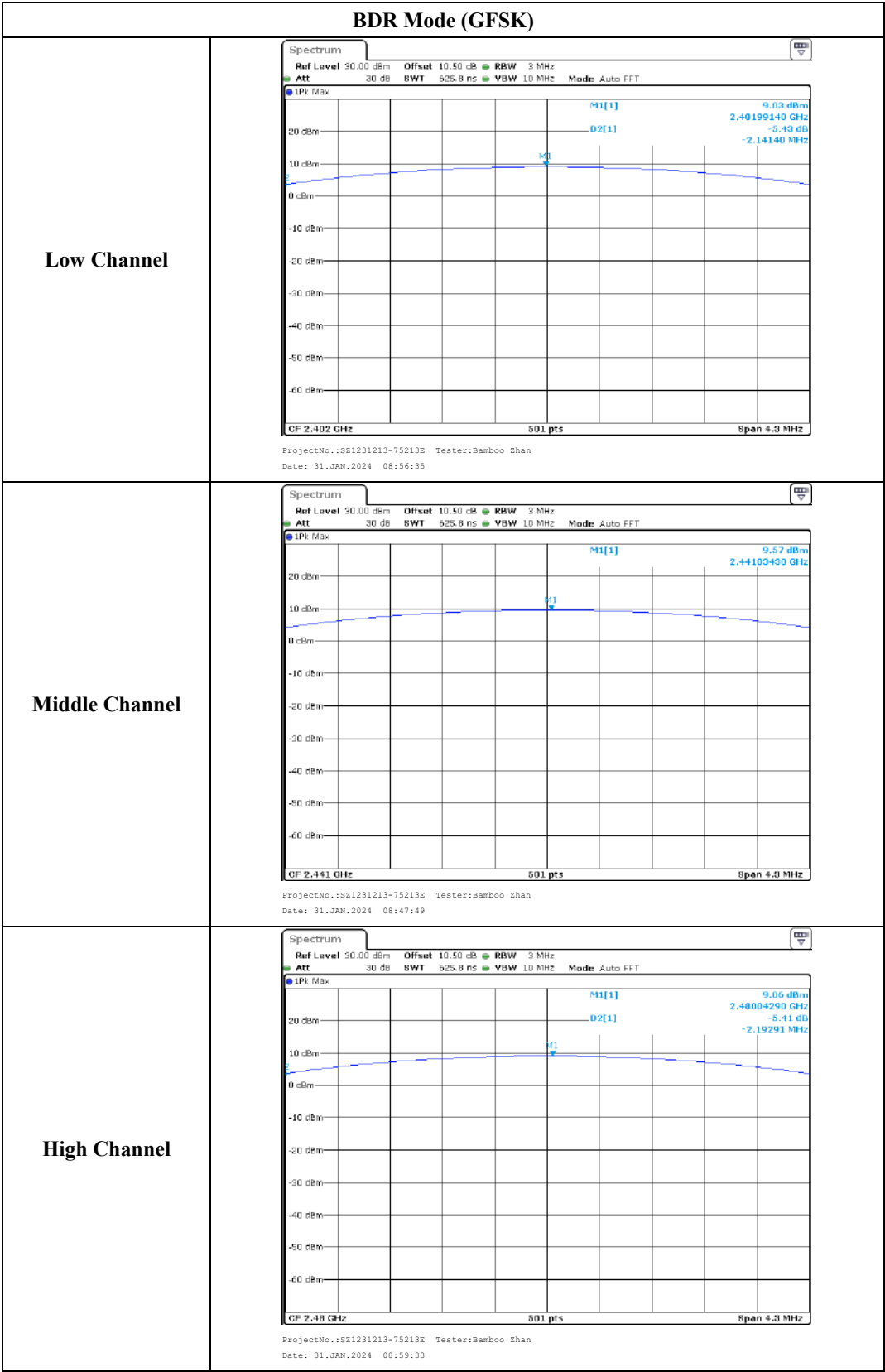
Temperature:	22.8~23 °C
Relative Humidity:	49~70 %
ATM Pressure:	101.0~101.1 kPa

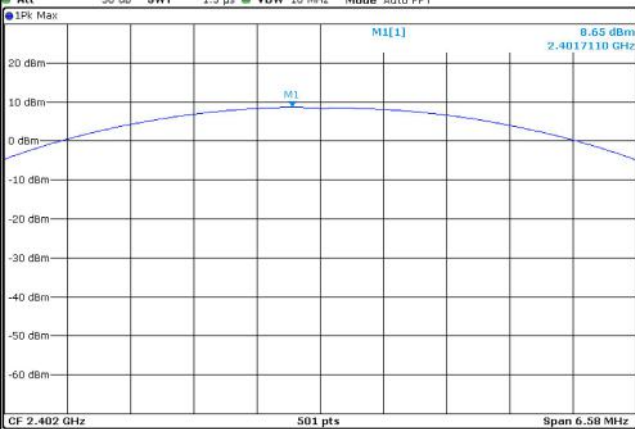
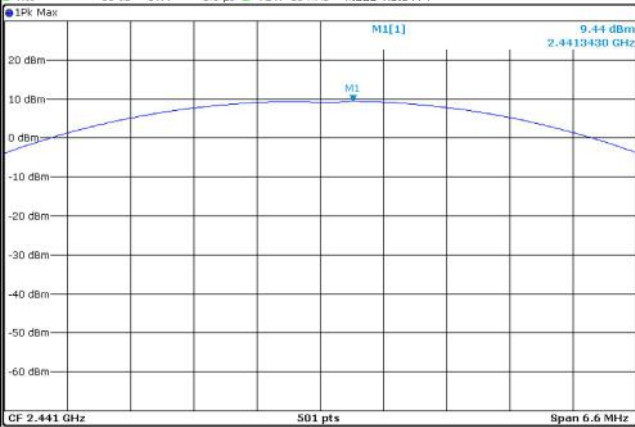
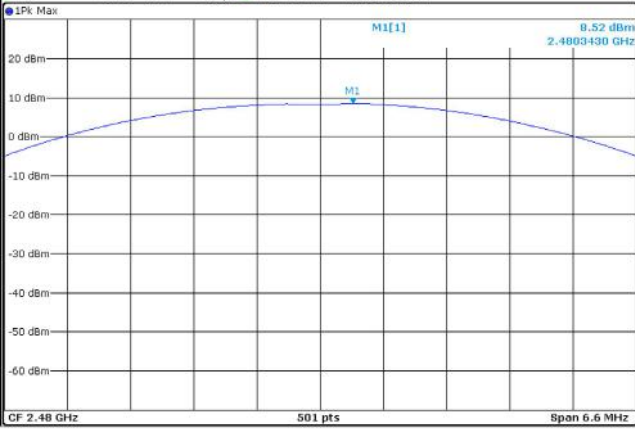
The testing was performed by Bamboo Zhan from 2024-01-29 to 2024-03-07.

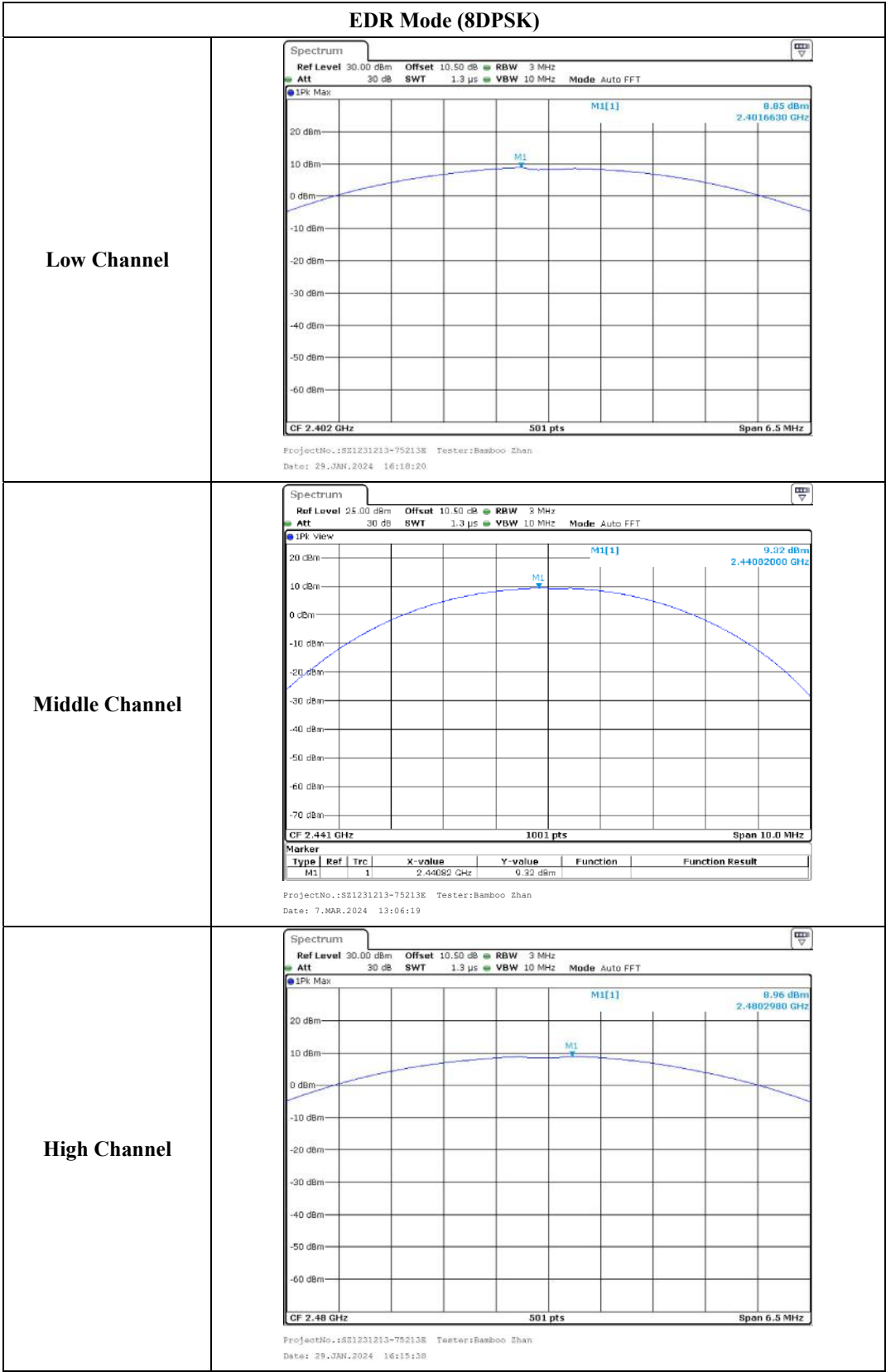
EUT operation mode: Transmitting

Test Result: Compliant.

Test Modes	Test Frequency (MHz)	Peak Conducted Output Power (dBm)	Limits (dBm)
BDR Mode (GFSK)	2402	9.03	21
	2441	9.57	21
	2480	9.06	21
EDR Mode ($\pi/4$ -DQPSK)	2402	8.65	21
	2441	9.44	21
	2480	8.52	21
EDR Mode (8DPSK)	2402	8.85	21
	2441	9.32	21
	2480	9.32	21



Low Channel	EDR Mode ($\pi/4$-DQPSK) Spectrum Ref Level 30.00 dBm Offset 10.50 dB RBW 3 MHz Att 30 dB SWT 1.3 μs VBW 10 MHz Mode Auto FFT 1Pk Max  CF 2.402 GHz 501 pts Span 6.58 MHz ProjectNo.:SZ1231213-75213E Tester:Banboo Zhan Date: 29.JAN.2024 16:04:40
Middle Channel	Spectrum Ref Level 30.00 dBm Offset 10.50 dB RBW 3 MHz Att 30 dB SWT 1.3 μs VBW 10 MHz Mode Auto FFT 1Pk Max  CF 2.441 GHz 501 pts Span 6.6 MHz ProjectNo.:SZ1231213-75213E Tester:Banboo Zhan Date: 29.JAN.2024 16:05:47
High Channel	Spectrum Ref Level 30.00 dBm Offset 10.50 dB RBW 3 MHz Att 30 dB SWT 1.3 μs VBW 10 MHz Mode Auto FFT 1Pk Max  CF 2.48 GHz 501 pts Span 6.6 MHz ProjectNo.:SZ1231213-75213E Tester:Banboo Zhan Date: 29.JAN.2024 16:06:52



FCC §15.247(d) & RSS-247 § 5.5 - BAND EDGES TESTING

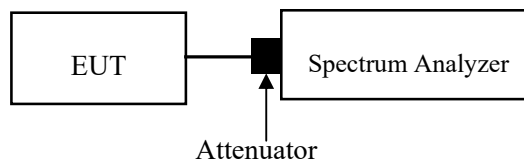
Applicable Standard

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

Test Procedure

Test Method: ANSI C63.10-2013 Clause 7.8.6 & Clause 6.10

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Remove the antenna from the EUT and then connect to a low loss RF cable from the antenna port to a EMI test receiver, then turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.



Test Data

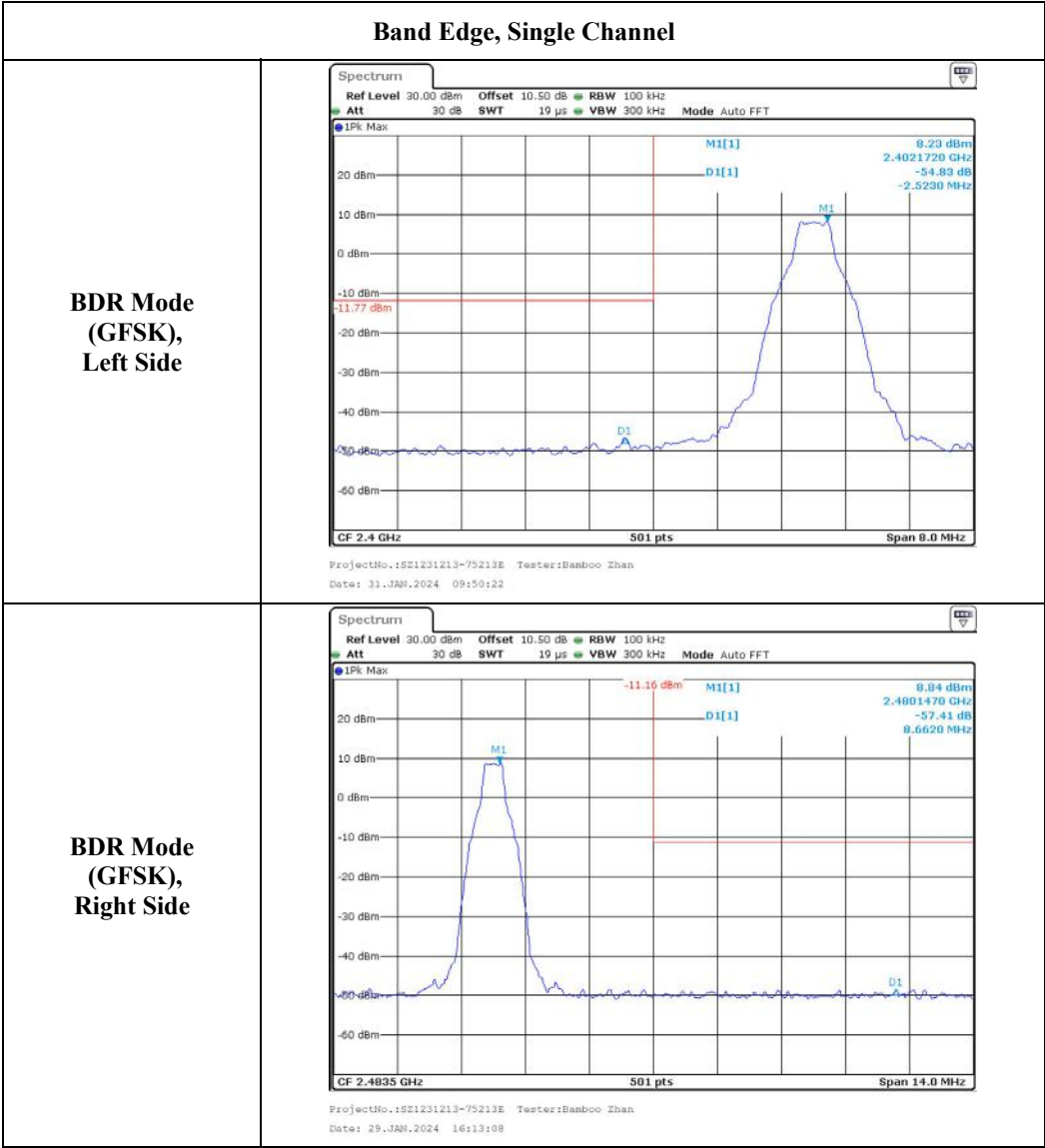
Environmental Conditions

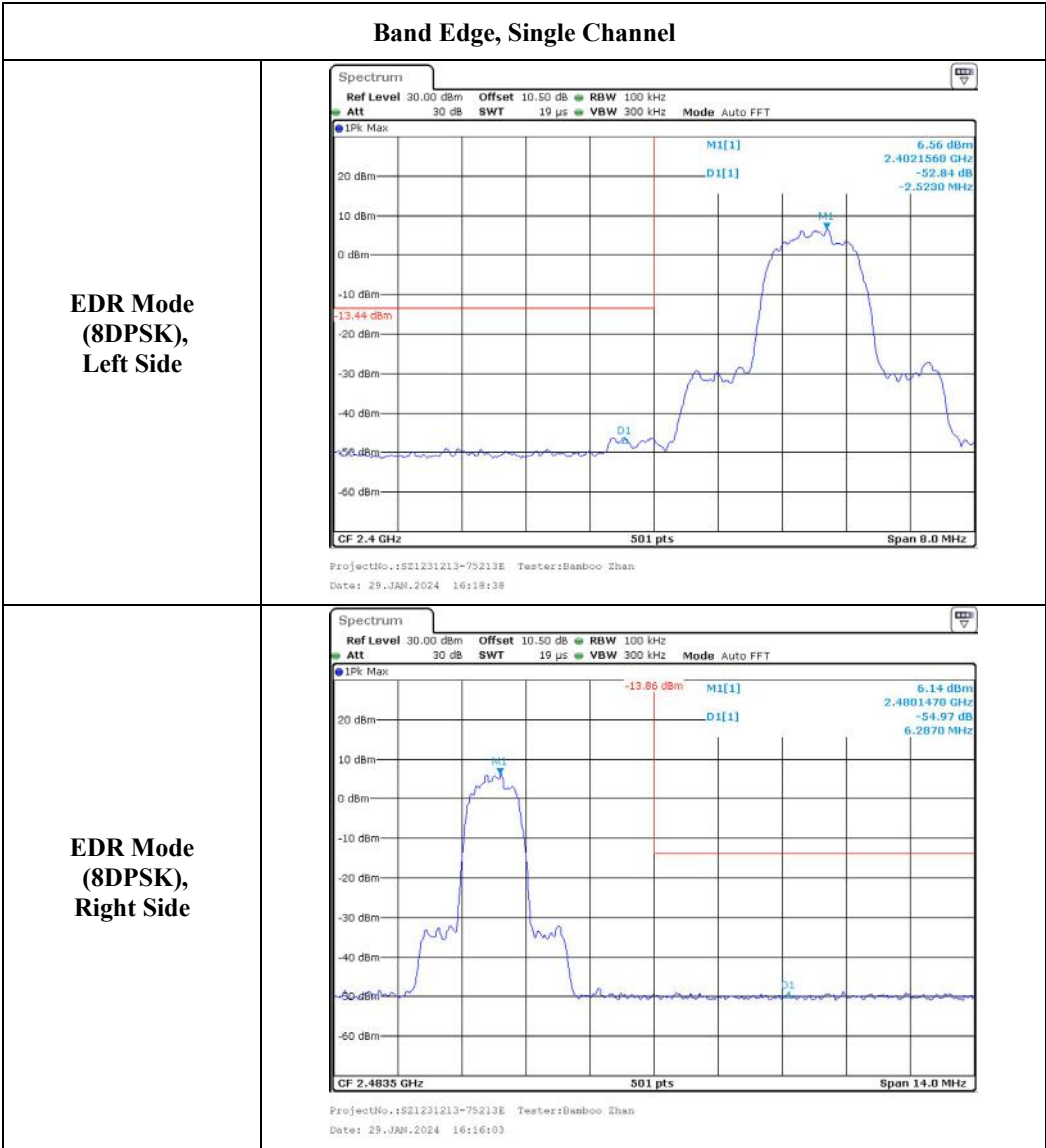
Temperature:	22.8~23 °C
Relative Humidity:	49~70 %
ATM Pressure:	101.0~101.1 kPa

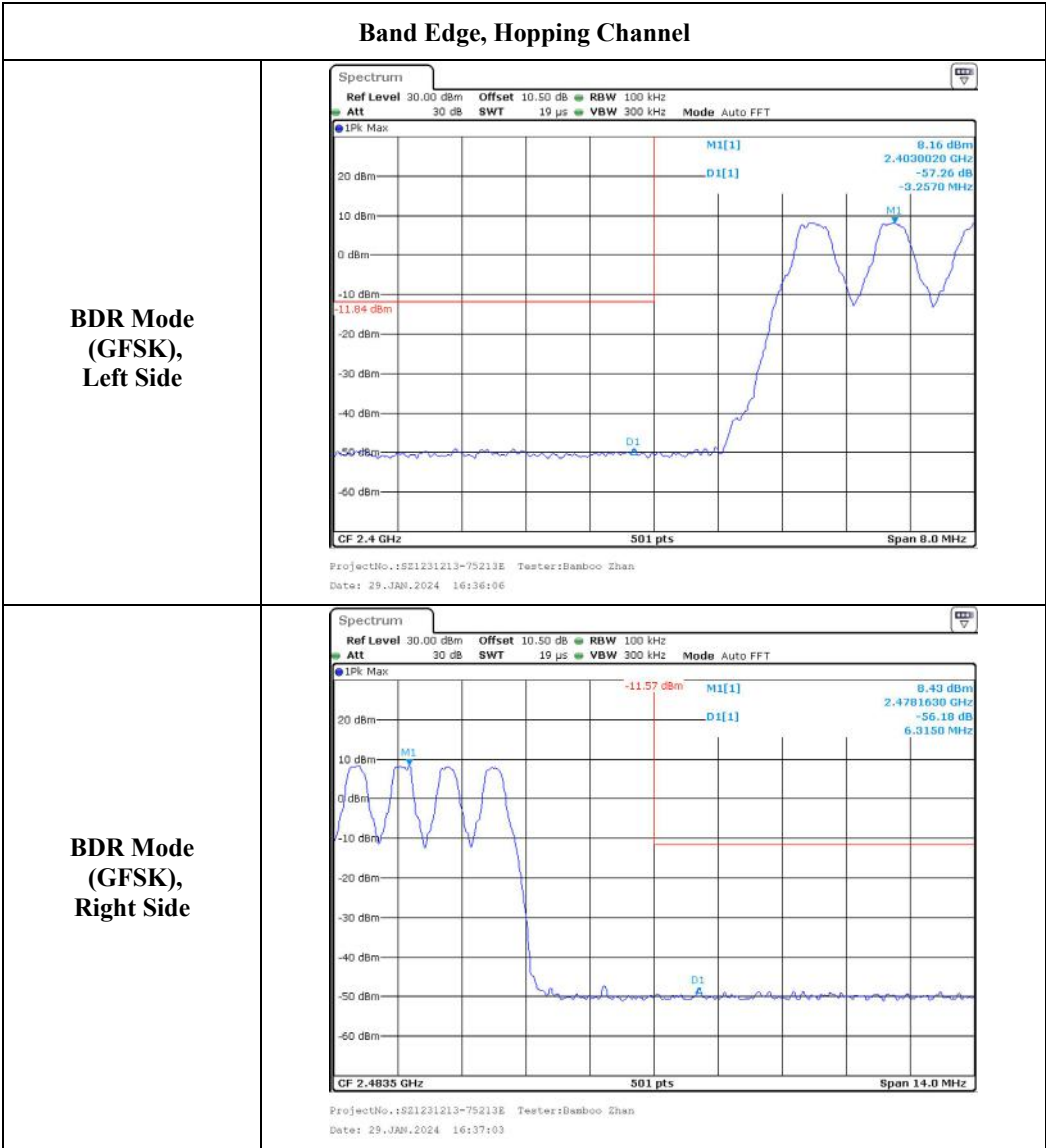
The testing was performed by Bamboo Zhan from 2024-01-29 to 2024-01-31.

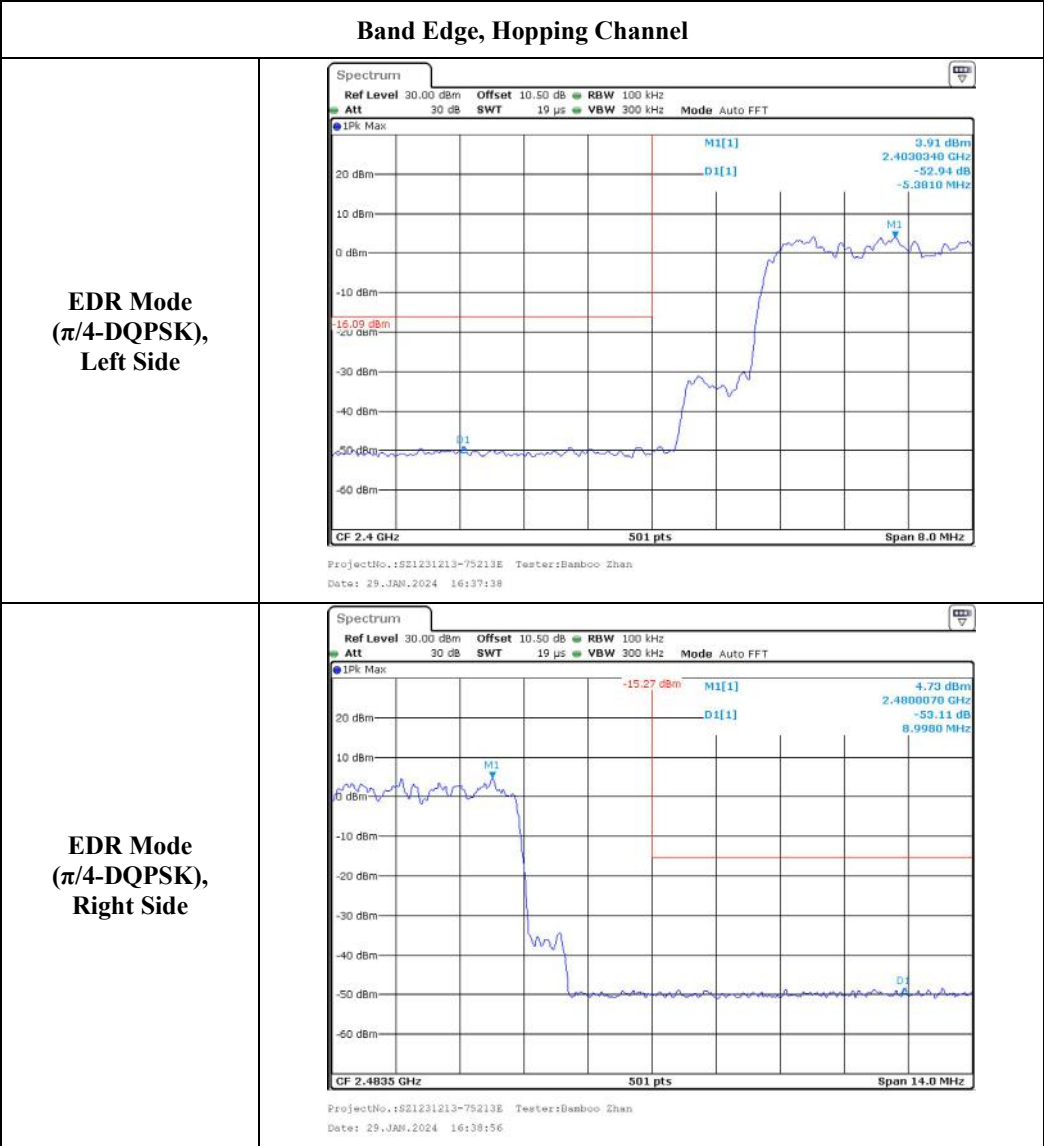
EUT operation mode: Transmitting

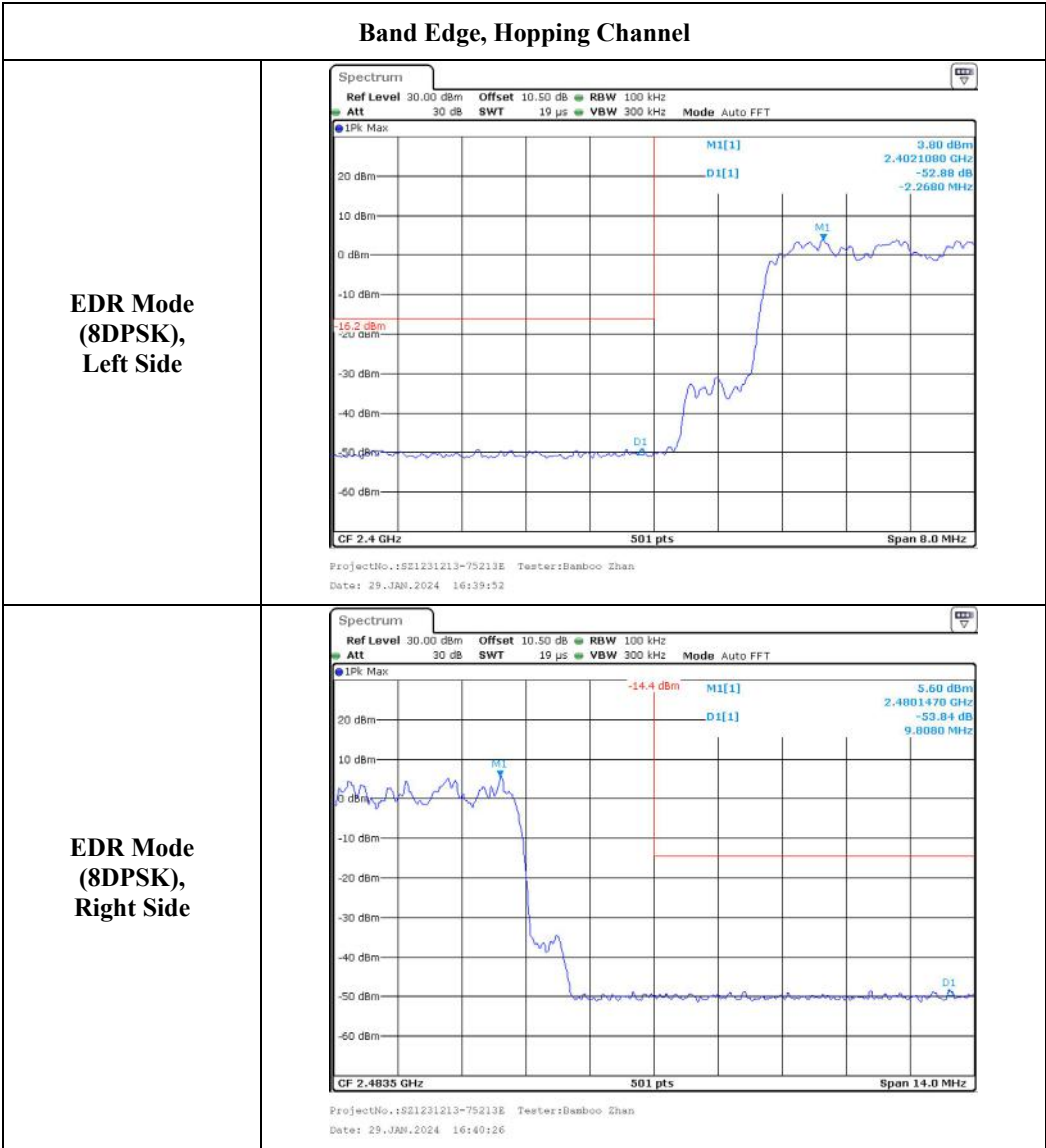
Test Result: Compliant.











EUT PHOTOGRAPHS

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

TEST SETUP PHOTOGRAPHS

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

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