

TEST REPORT

Applicant Name: Mindscope Products Inc.
Address: P.O. Box 9525, Glendale CA 91226, United States
Report Number: SZ3240314-12849E-RF-00
FCC ID: YKG-MSPCART

Test Standard (s)

FCC PART 15.249

Sample Description

Product Type: Remote Control
Model No.: MSPCARTP
Multiple Model(s) No.: MSPCARTA, MSPCARTB
Trade Mark: MINDSCOPE
Date Received: 2024/03/14
Issue Date: 2024/04/26

Test Result:

Pass[▲]

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

Prepared and Checked By:

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Jojo Guo
RF Engineer

Approved By:

Nancy Wang

Nancy Wang
RF Supervisor

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

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This report may contain data that are not covered by the NVLAP accreditation and are marked with an asterisk "▼".

Bay Area Compliance Laboratories Corp. (Shenzhen)

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	SZ3240314-12849E-RF-00	Original Report	2024/04/26

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	Remote Control
Tested Model	MSPCARTP
Multiple Model(s)	MSPCARTA, MSPCARTB
Frequency Range	2407-2475 MHz
Maximum E-field strength	70.23 dBuV/m@3m
Modulation Technique	GFSK
Antenna Specification [#]	1.0dBi (provided by the applicant)
Voltage Range	DC 3V(1.5V AA*2) from battery
Sample serial number	2IOJ-2 (Assigned by BACL, Shenzhen)
Sample/EUT Status	Good condition
Adapter Information	N/A
Note: The multiple models are electrically identical with the test model except for model number. Please refer to the declaration letter [#] for more detail, which was provided by manufacturer.	

Objective

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

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

Frequency Channel List:

Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
1	2407	11	2433	21	2463
2	2409	12	2435	22	2465
3	2411	13	2437	23	2467
4	2413	14	2439	24	2469
5	2415	15	2441	25	2471
6	2417	16	2443	26	2473
7	2419	17	2445	27	2475
8	2421	18	2447	28	/
9	2423	19	2459	29	/
10	2431	20	2461	30	/

Note: Test on Channel 1, 17 and 27.

EUT Exercise Software

No exercise software was used.

Equipment Modifications

No modifications were made to the unit tested.

Support Equipment List and Details

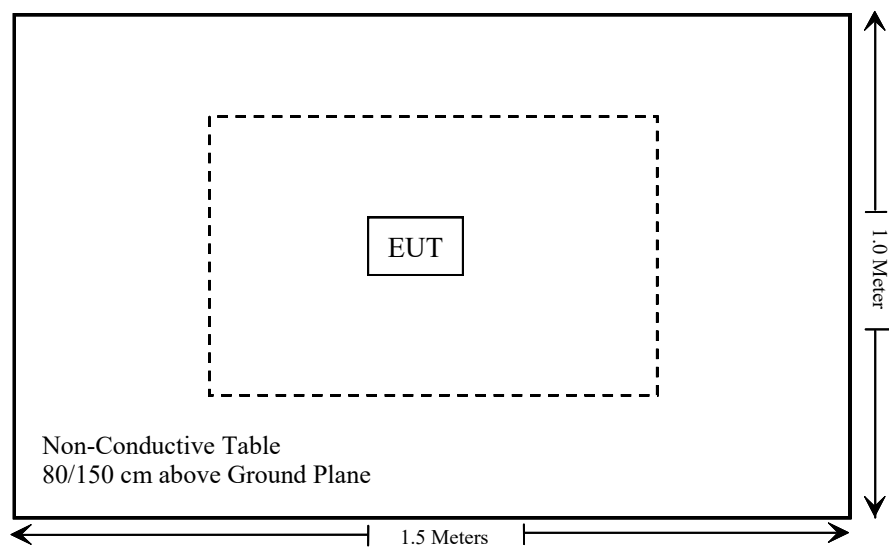
Manufacturer	Description	Model	Serial Number
/	/	/	/

Support Cable Descriptions

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

Block Diagram of Test Setup

For Radiated Emission:



SUMMARY OF TEST RESULTS

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

Not Applicable: The EUT cannot connect directly to the public power network.

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
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
Audix	EMI Test software	E3	19821b(V9)	NCR	NCR
Agilent	Signal Generator	N5183A	MY50140588	2023/12/18	2024/12/17
Rohde & Schwarz	Spectrum Analyzer	FSV40	101605	2023/04/18	2024/04/17
Rohde & Schwarz	Spectrum Analyzer	FSV40	101605	2024/03/27	2025/03/26
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	2026	2023/09/18	2026/09/17
UTIFLEX	RF Cable	NO. 13	232308-001	2023/08/03	2024/08/02
Audix	EMI Test software	E3	191218(V9)	NCR	NCR

*** 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).

§1.1307 (b) (3) & §2.1093 – RF EXPOSURE

Applicable Standard

According to FCC §2.1093 and §1.1307(b) (3), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB 447498 D04 Interim General RF Exposure Guidance

1-mW Test Exemption:

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

For worst case:

Mode	Frequency (MHz)	Maximum E-Field (dBuV/m@3m)	Maximum EIRP		1-mW Test Exemption
			(dBm)	(mW)	
GFSK	2407-2475	70.23	-24.97	0.003	Yes

Note: EIRP = E-Field – 95.2 @3m

Result: Compliant.

FCC§15.203 - ANTENNA REQUIREMENT

Applicable Standard

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

Antenna Connector Construction

The EUT has an internal antenna which was permanently attached and the antenna gain[#] is 1.0dBi, fulfill the requirement of this section. Please refer to the EUT photos.

Antenna Type	Antenna Gain [#]	Impedance	Frequency Range
Monopole	1.0dBi	50Ω	2407-2475MHz

Result: Compliant.

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

Applicable Standard

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

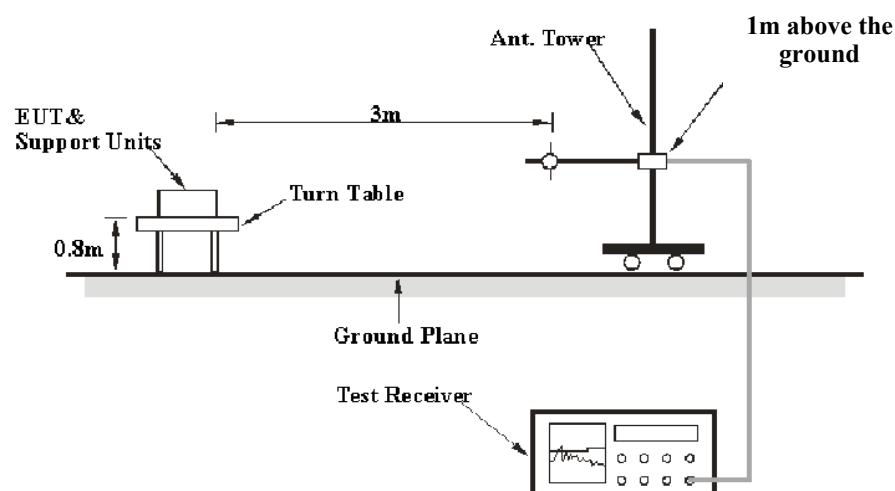
Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902–928 MHz	50	500
2400–2483.5 MHz	50	500
5725–5875 MHz	50	500
24.0–24.25 GHz	250	2500

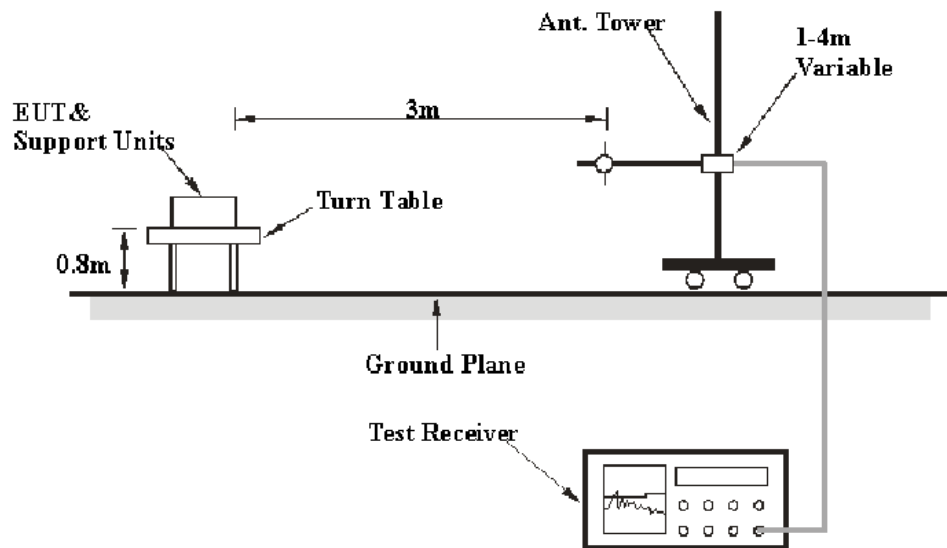
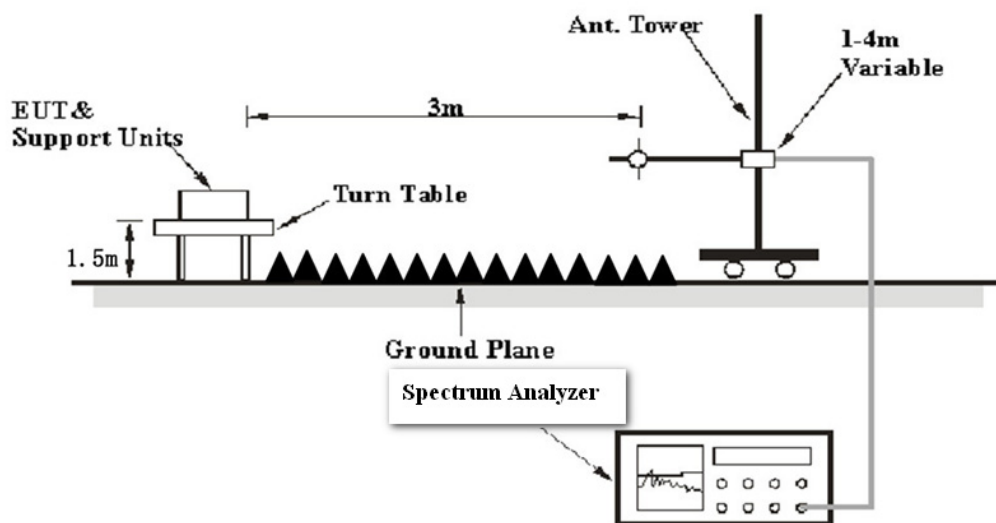
As per FCC§15.249 (c), Field strength limits are specified at a distance of 3 meters.

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

EUT Setup

9 kHz-30MHz:



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

The radiated emission and out of band emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209/15.205 and FCC 15.249 limits.

EMI Test Receiver & Spectrum Analyzer Setup

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

Frequency Range	RBW	Video B/W	IF B/W	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.

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

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

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

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

Factor & Over Limit/Margin Calculation

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

$$\text{Factor} = \text{Antenna factor (RX)} + \text{Cable Loss} - \text{Amplifier Gain}$$

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:

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

Test Data

Environmental Conditions

Temperature:	22~25.6°C
Relative Humidity:	50~55 %
ATM Pressure:	101 kPa

The testing was performed by Anson Su on 2024-03-23 for below 1GHz and Dylan Yang on 2024-03-26&2024-04-26 for above 1GHz.

EUT operation mode: Transmitting

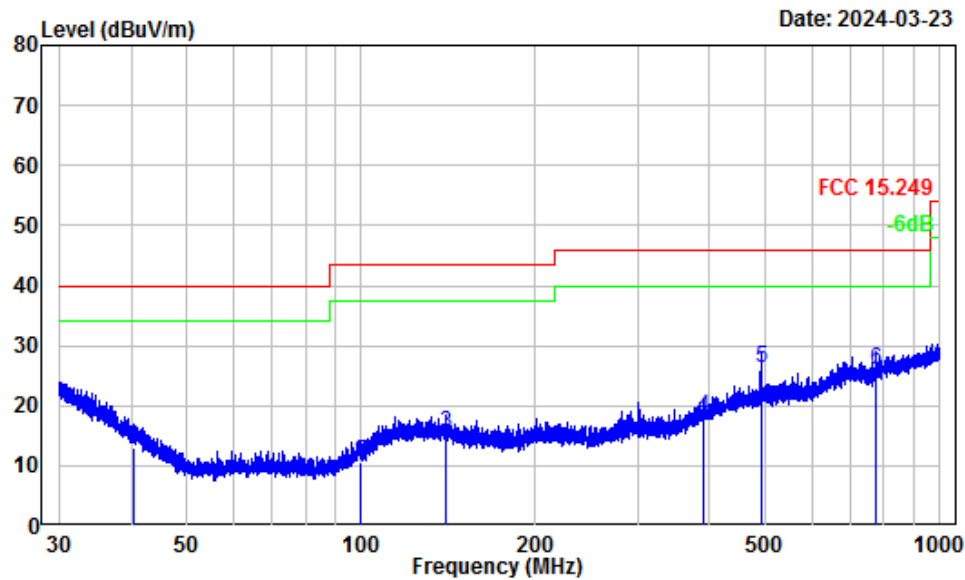
Note: Pre-scan in the X, Y and Z axes of orientation, the worst case Z-axis of orientation was recorded

9 kHz-30MHz: (Maximum output power mode, Low channel)

For the radiated spurious emission below 30MHz, the emissions are 20dB below the limit or the noise floor which are not recorded.

30MHz-1GHz: (Maximum output power mode, Low channel)

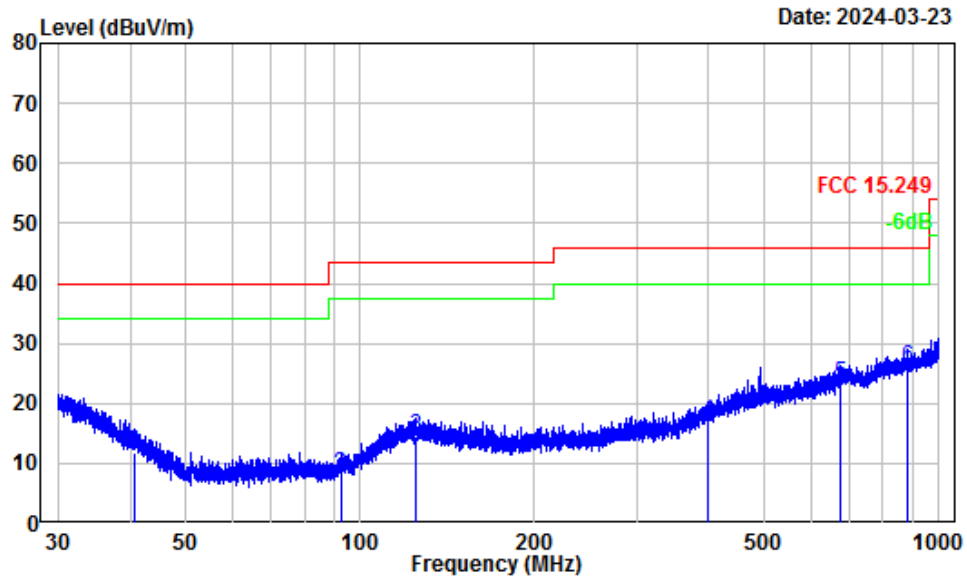
Horizontal



Site : Chamber A
Condition : 3m Horizontal
Project Number: SZ3240314-12849E-RF
Note : GFSK
Tester : Anson Su

		Read		Limit	Over	Remark
Freq Factor		Level	Level	Line	Limit	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	40.52	-10.72	23.71	12.99	40.00	-27.01 QP
2	100.01	-13.73	24.20	10.47	43.50	-33.03 QP
3	139.79	-10.72	26.10	15.38	43.50	-28.12 QP
4	391.41	-7.78	25.78	18.00	46.00	-28.00 QP
5	490.96	-5.15	31.31	26.16	46.00	-19.84 QP
6	774.50	-1.12	27.00	25.88	46.00	-20.12 QP

Vertical



Site : Chamber A
Condition : 3m Vertical
Project Number: SZ3240314-12849E-RF
Note : GFSK
Tester : Anson Su

	Freq Factor		Read	Limit	Over	Remark
	MHz	dB/m	Level	Line	Limit	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB
1	40.68	-12.28	24.05	11.77	40.00	-28.23 QP
2	92.42	-16.85	25.11	8.26	43.50	-35.24 QP
3	124.95	-10.76	25.12	14.36	43.50	-29.14 QP
4	399.73	-7.58	24.63	17.05	46.00	-28.95 QP
5	674.03	-2.40	25.73	23.33	46.00	-22.67 QP
6	884.50	0.39	25.53	25.92	46.00	-20.08 QP

Above 1GHz:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave					
Low Channel							
2407.00	73.36	PK	H	-3.13	70.23	114	-43.77
2407.00	43.96	AV	H	-3.13	40.83	94	-53.17
2407.00	65.53	PK	V	-3.13	62.40	114	-51.60
2407.00	42.55	AV	V	-3.13	39.42	94	-54.58
4814.00	61.15	PK	H	2.44	63.59	74	-10.41
4814.00	50.72	AV	H	2.44	53.16	54	-0.84
4814.00	61.27	PK	V	2.44	63.71	74	-10.29
4814.00	43.68	AV	V	2.44	46.12	54	-7.88
Middle Channel							
2445.00	72.67	PK	H	-3.13	69.54	114	-44.46
2445.00	44.07	AV	H	-3.13	40.94	94	-53.06
2445.00	66.51	PK	V	-3.13	63.38	114	-50.62
2445.00	43.12	AV	V	-3.13	39.99	94	-54.01
4890.00	62.54	PK	H	2.61	65.15	74	-8.85
4890.00	50.69	AV	H	2.61	53.30	54	-0.70
4890.00	54.42	PK	V	2.61	57.03	74	-16.97
4890.00	41.73	AV	V	2.61	44.34	54	-9.66
High Channel							
2475.00	71.21	PK	H	-3.10	68.11	114	-45.89
2475.00	44.04	AV	H	-3.10	40.94	94	-53.06
2475.00	65.78	PK	V	-3.10	62.68	114	-51.32
2475.00	43.19	AV	V	-3.10	40.09	94	-53.91
4950.00	62.57	PK	H	2.61	65.18	74	-8.82
4950.00	50.86	AV	H	2.61	53.47	54	-0.53
4950.00	53.84	PK	V	2.61	56.45	74	-17.55
4950.00	43.45	AV	V	2.61	46.06	54	-7.94

Note:

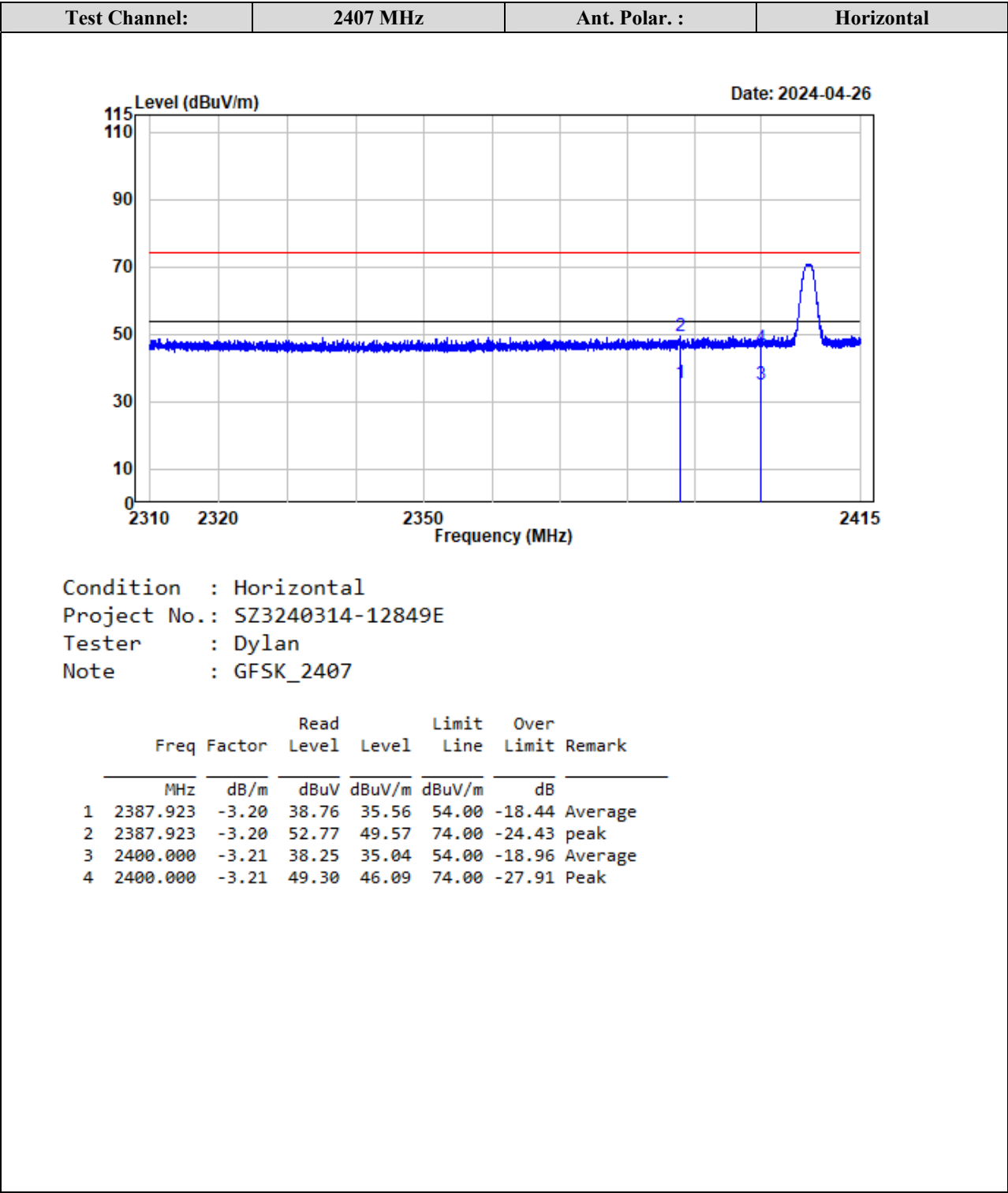
Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor

Absolute Level = Factor + Reading

Margin = Absolute Level - Limit

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

Test plots for Band Edge Measurements (Radiated):

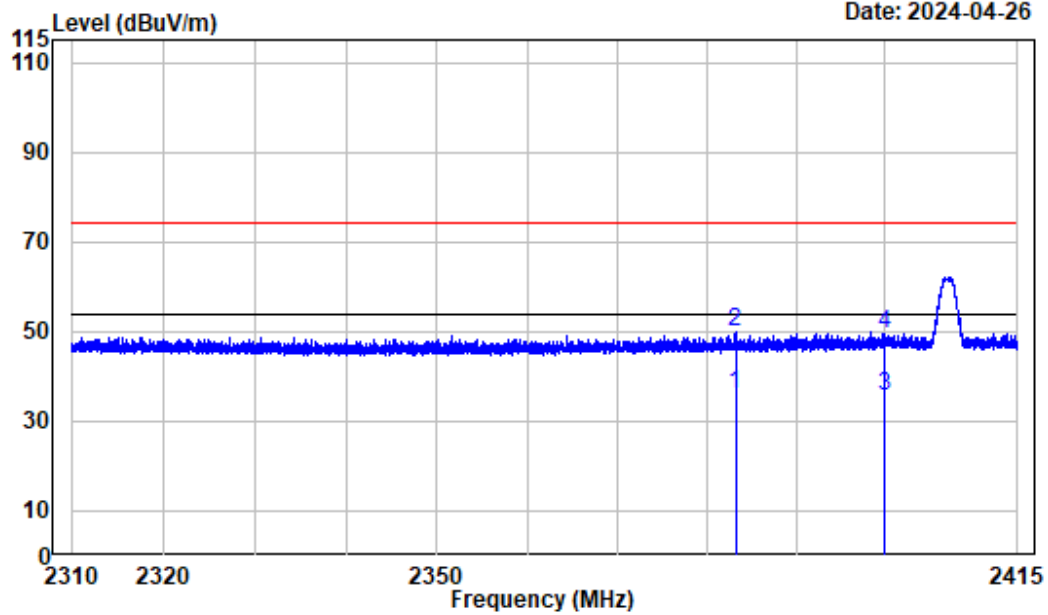


Test Channel:

2407 MHz

Ant. Polar. :

Vertical



Condition : Vertical

Project No.: SZ3240314-12849E

Tester : Dylan

Note : GFSK_2407

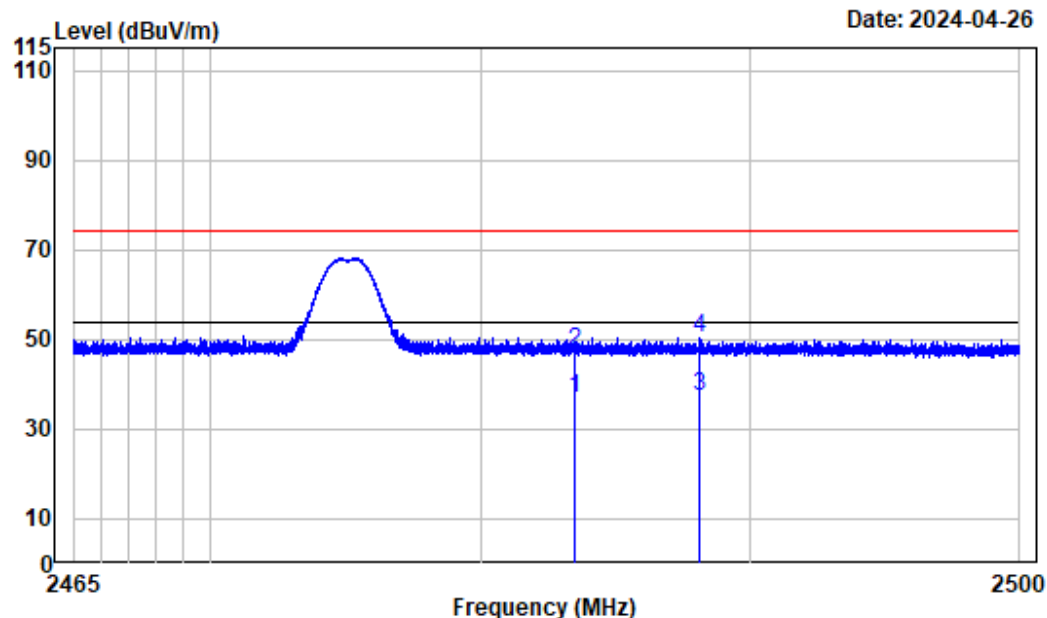
	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2383.211	-3.20	39.08	35.88	54.00	-18.12	Average
2	2383.211	-3.20	52.99	49.79	74.00	-24.21	peak
3	2400.000	-3.21	38.76	35.55	54.00	-18.45	Average
4	2400.000	-3.21	52.58	49.37	74.00	-24.63	Peak

Test Channel:

2475 MHz

Ant. Polar. :

Horizontal



Condition : Horizontal

Project No.: SZ3240314-12849E

Tester : Dylan

Note : GFSK_2475

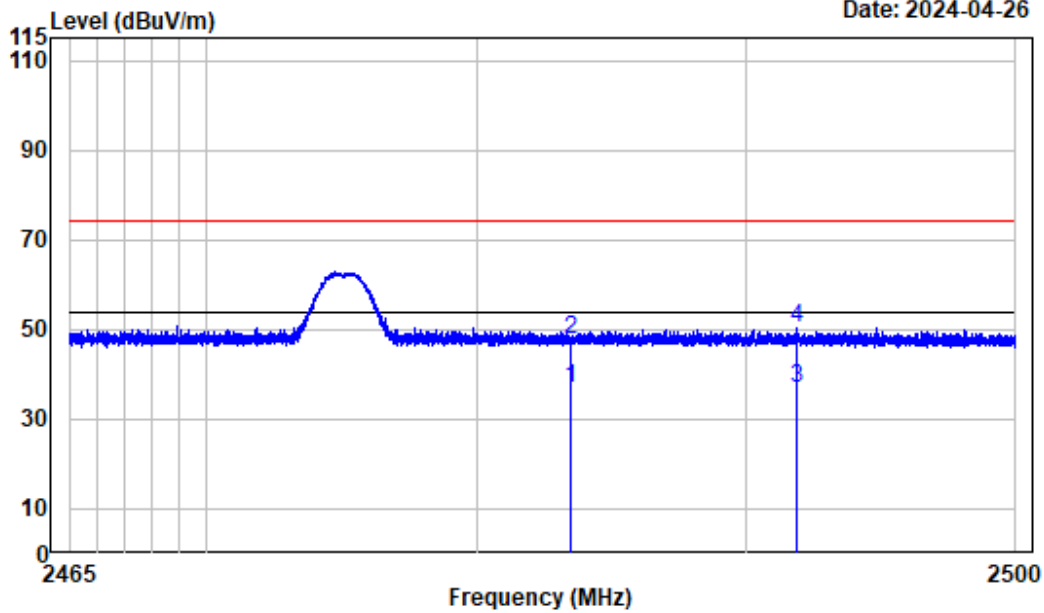
	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2483.500	-3.17	40.25	37.08	54.00	-16.92	Average
2	2483.500	-3.17	50.47	47.30	74.00	-26.70	Peak
3	2488.087	-3.18	40.39	37.21	54.00	-16.79	Average
4	2488.087	-3.18	53.68	50.50	74.00	-23.50	peak

Test Channel:

2475 MHz

Ant. Polar. :

Vertical



Condition : Vertical

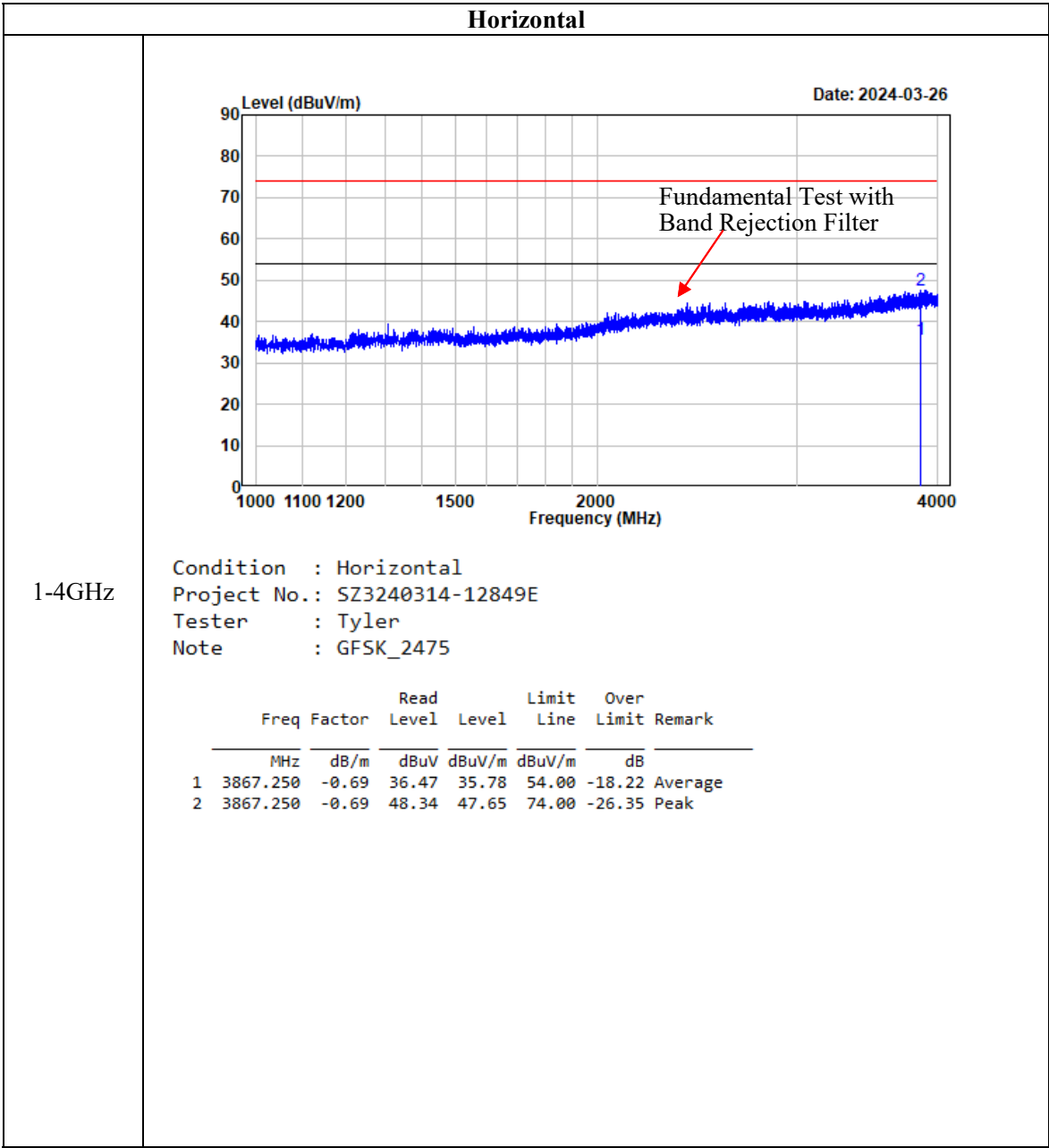
Project No.: SZ3240314-12849E

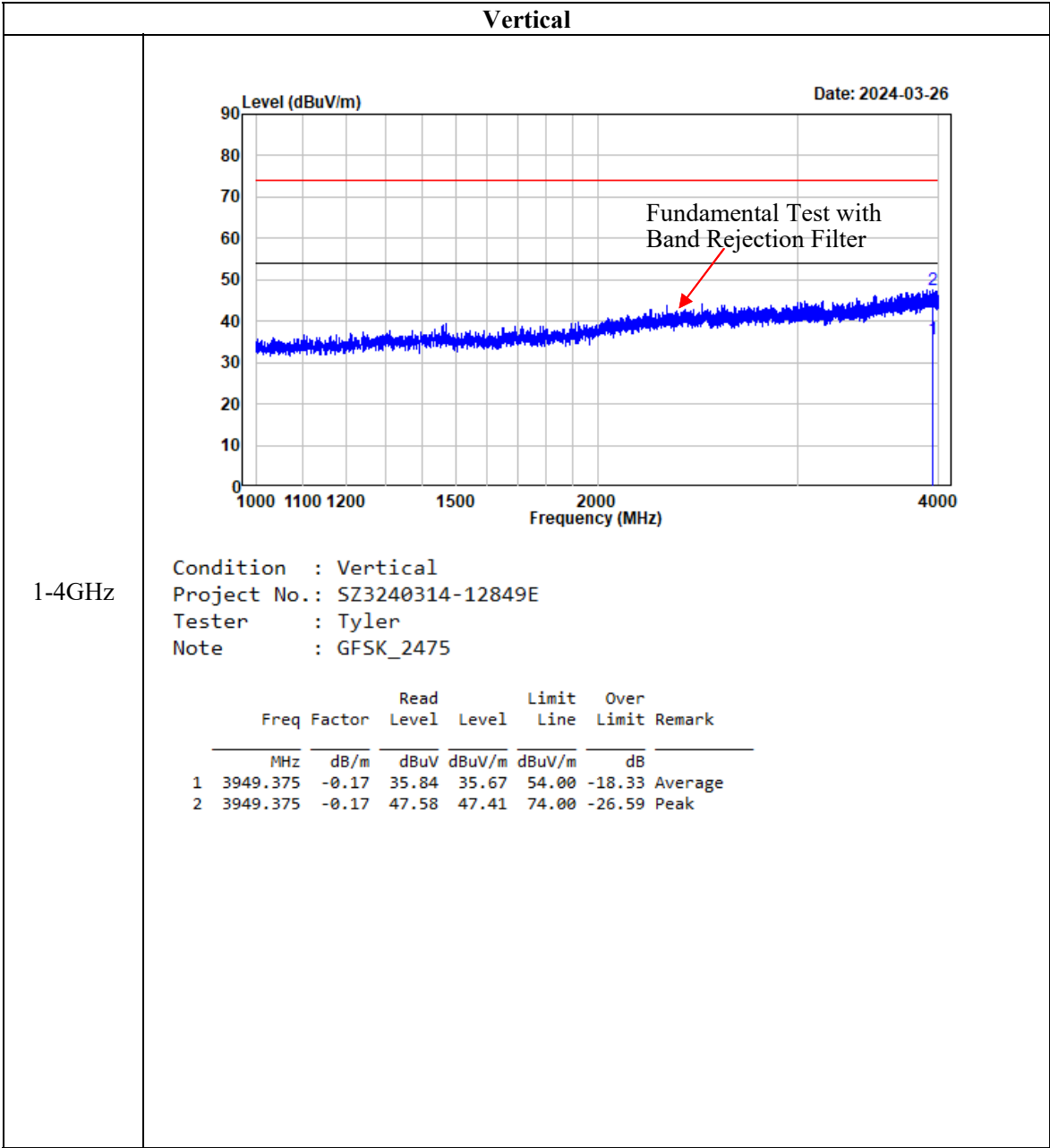
Tester : Dylan

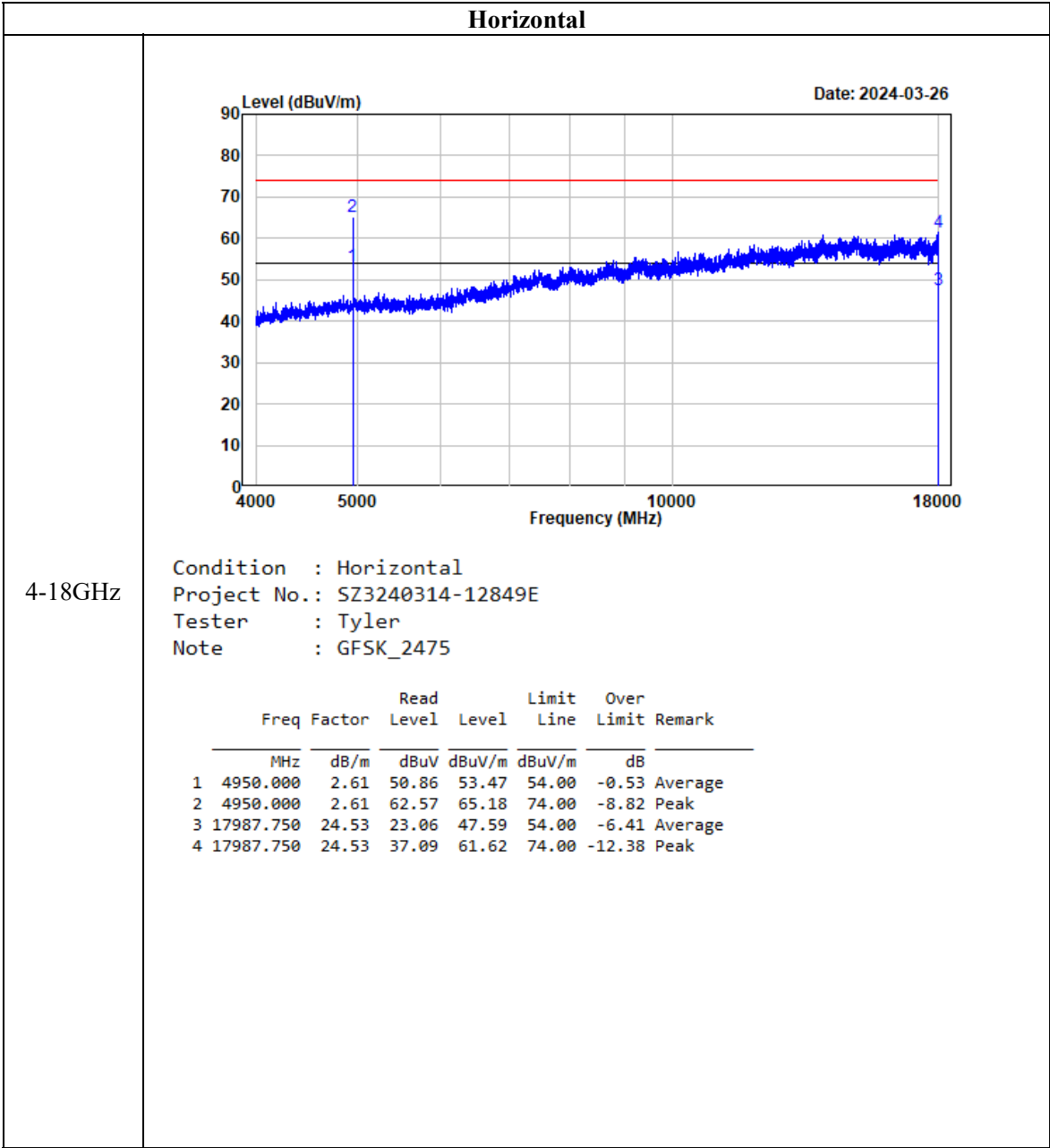
Note : GFSK_2475

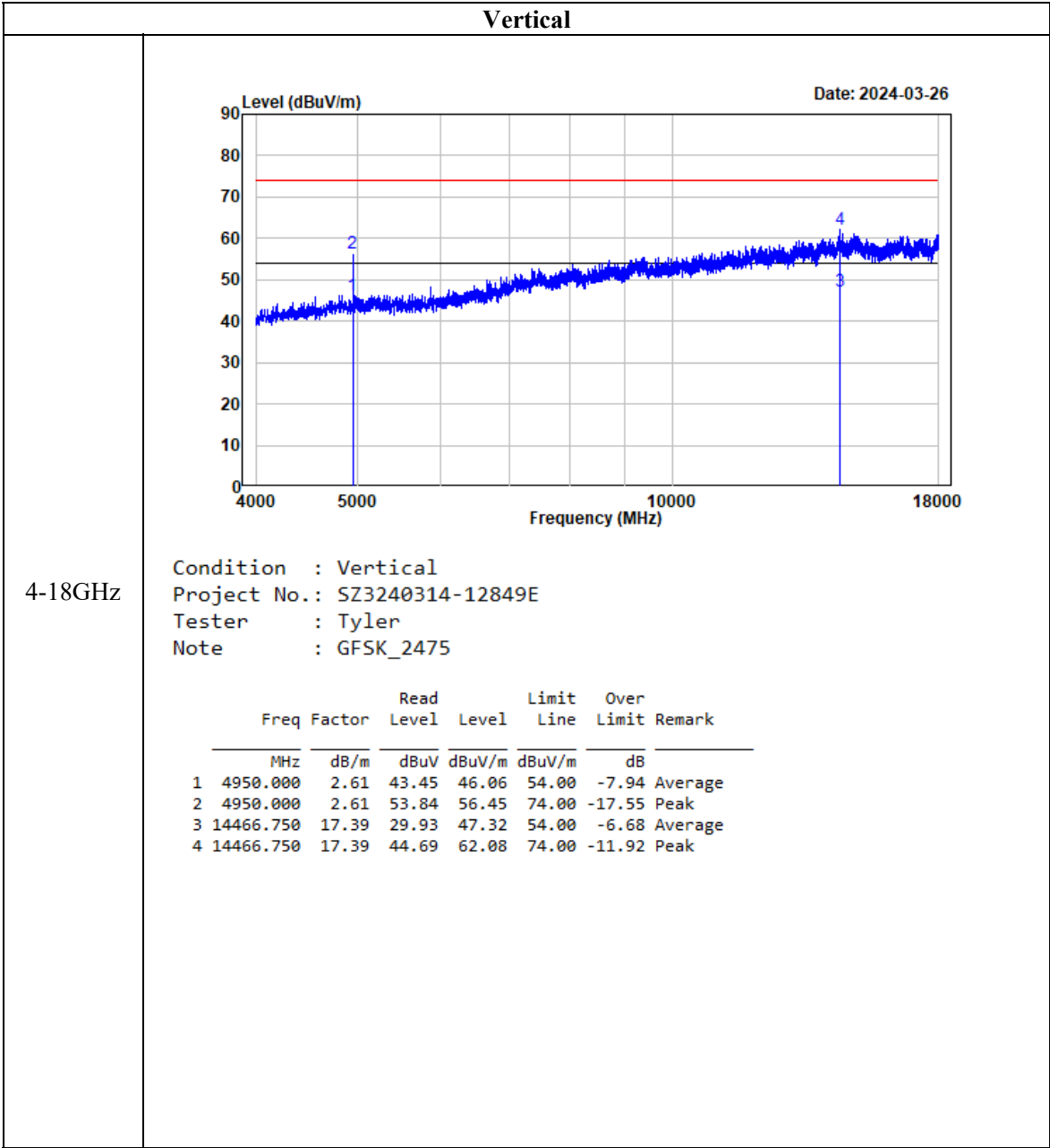
	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2483.500	-3.17	40.11	36.94	54.00	-17.06	Average
2	2483.500	-3.17	50.90	47.73	74.00	-26.27	Peak
3	2491.889	-3.18	40.28	37.10	54.00	-16.90	Average
4	2491.889	-3.18	53.46	50.28	74.00	-23.72	peak

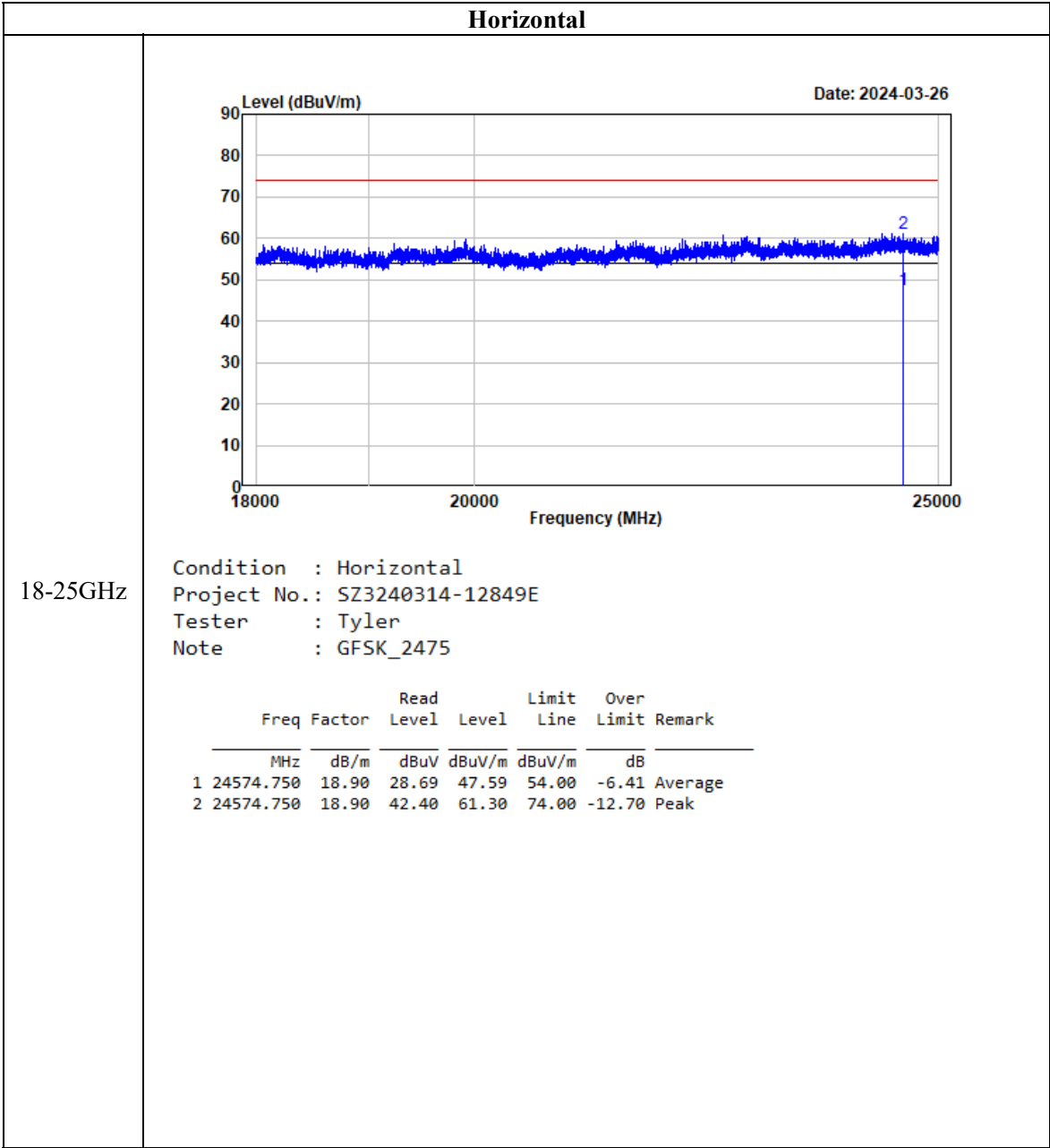
Listed with the worst harmonic margin test plot: High Channel

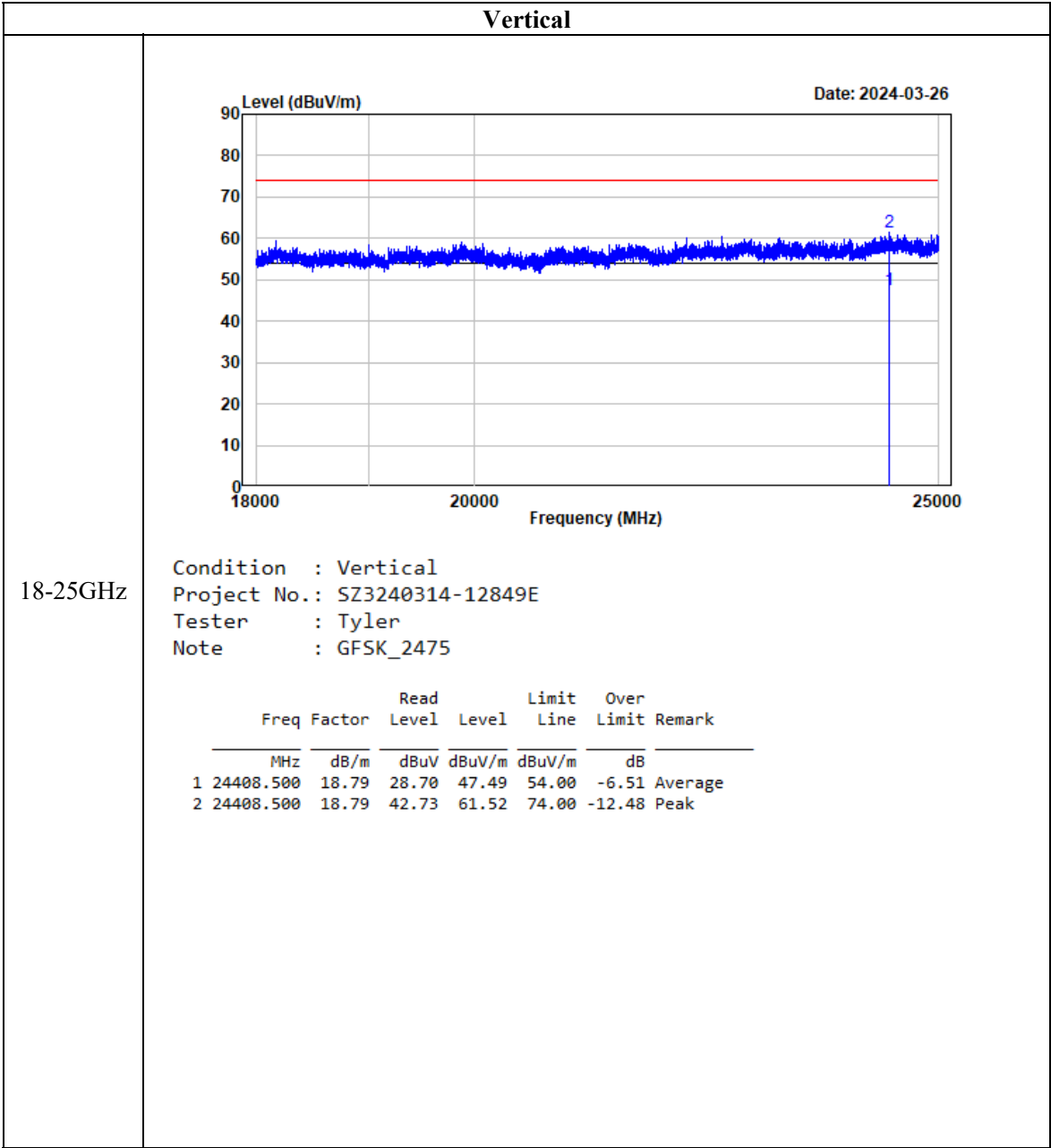












FCC§15.215(c) - 20dB EMISSION BANDWIDTH

Applicable Standard

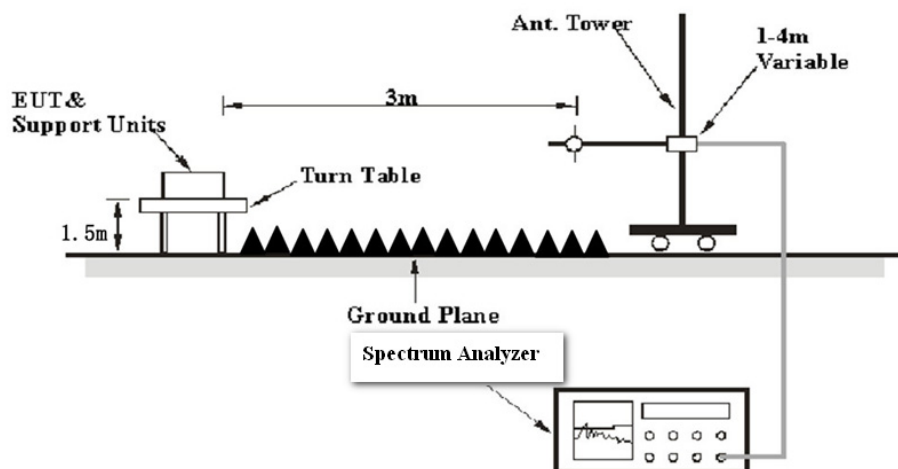
Intentional radiators operating under the alternative provisions to the general emission limits, as contained in § 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific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

Test Procedure

Test Method: ANSI C63.10-2013 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 °C
Relative Humidity:	54%
ATM Pressure:	101 kPa

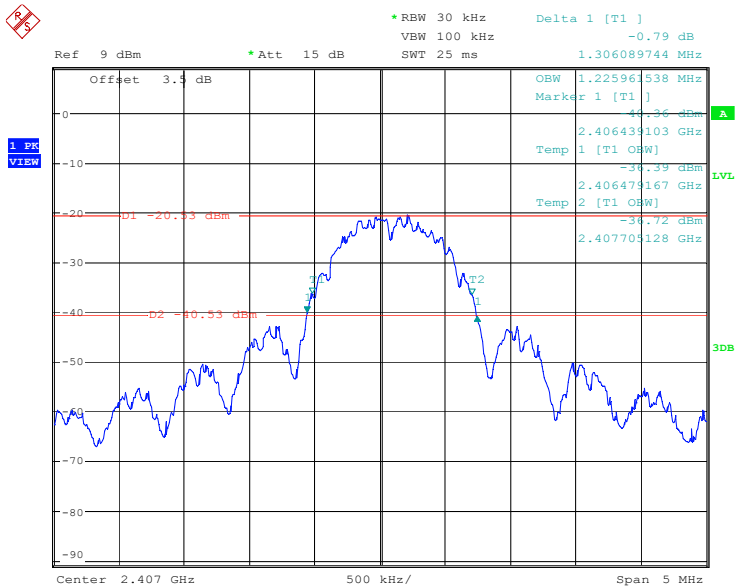
The testing was performed by Kungfumaster Liang on 2024-04-02.

EUT operation mode: Transmitting

Please refer to the following table and plots.

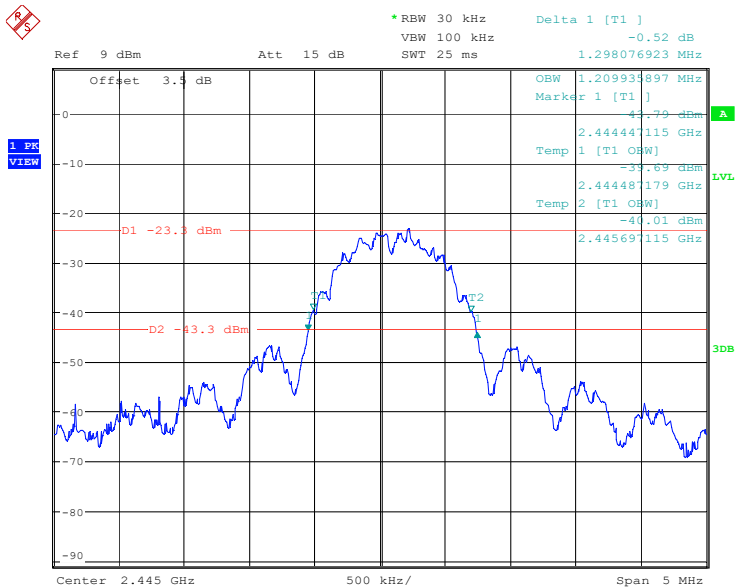
Channel	Frequency (MHz)	20dB Bandwidth (MHz)
Low	2407	1.306
Middle	2445	1.298
High	2475	1.314

Low channel



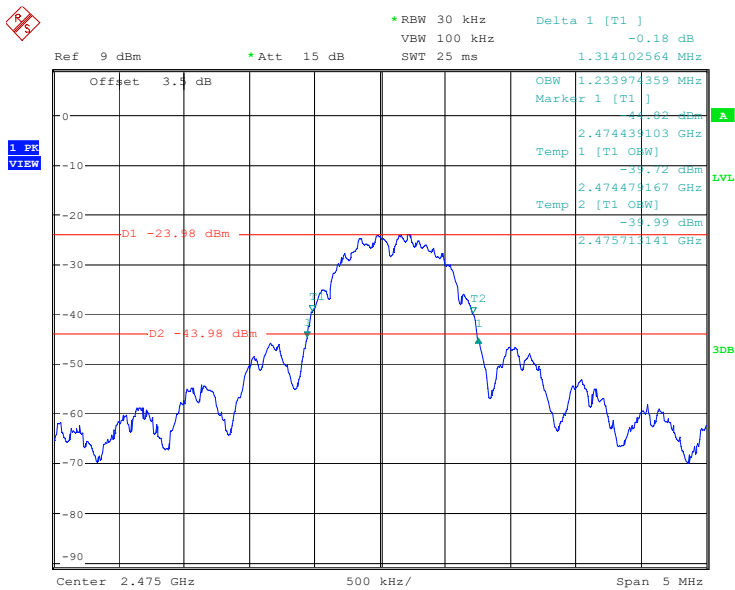
ProjectNo.:SZ3240314-12849E-RF Tester:Kungfumaster Liang
Date: 2.APR.2024 19:29:06

Middle Channel



ProjectNo.:SZ3240314-12849E-RF Tester:Kungfumaster Liang
Date: 2.APR.2024 19:15:09

High Channel



ProjectNo.:SZ3240314-12849E-RF Tester:Kungfumaster Liang
Date: 2.APR.2024 19:19:37

EUT PHOTOGRAPHS

Please refer to the attachment SZ3240314-12849E-RF External photo and SZ3240314-12849E-RF Internal photo.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment SZ3240314-12849E-RF Test Setup photo.

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