

Test Report No:
2630266R-RFUSV01S-A

TEST REPORT

FCC Rules & Regulations

Product Name	Wi-Fi/Bluetooth Module
Brand Name	Ability
Model No.	AP6256
FCC ID	2AAD3AP6256
Applicant's Name / Address	Ability Enterprise Co., Ltd. No.200, Sec. 3, Zhonghuan Rd., Xinzhuang Dist., New Taipei City 24242, Taiwan
Manufacturer's Name	Ability Enterprise Co., Ltd.
Test Method Requested, Standard	FCC CFR Title 47 Part 15 Subpart C Section 15.247
Verdict Summary	IN COMPLIANCE
Documented by Hailey Peng	<i>Hailey Peng</i>
Approved by Alan Chen	<i>Alan Chen</i>
Date of Receipt	2026/03/10
Date of Issue	2026/06/03
Report Version	V1.0

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Competences and Guarantees

DEKRA is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

IMPORTANT: No parts of this report may be reproduced or quoted out of context, in any form or by any means, except in full, without the previous written permission of DEKRA.

General Conditions

1. The test results relate only to the samples tested.
2. The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.
3. This report must not be used to claim product endorsement by TAF or any agency of the government.
4. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification Co., Ltd.
5. Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

Revision History

Version	Description	Issued Date
V1.0	Initial issue of report	2026/06/03

Summary of Test Result

Report Clause	Test Items	Result (PASS/FAIL)	Remark
3	AC Power Line Conducted Emission	PASS	-
4	Occupied Bandwidth & 20dB Bandwidth	PASS	-
5	Carrier Frequency Separation	PASS	-
6	Maximum Peak Conducted Output Power	PASS	-
7	Number of Hopping Frequency	PASS	-
8	Dwell Time	PASS	-
9	Antenna Port Conducted Emission	PASS	-
10	Radiated Emission	PASS	-

Comments and Explanations

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1. General Information

1.1. EUT Description

Frequency Band	2400 ~ 2483.5 MHz
Operating Frequency	2402 ~ 2480 MHz
Channel Number	79 Channels
Type of Modulation	Bluetooth BR uses a GFSK (1 Mbps)
	Bluetooth EDR uses a combination of $\pi/4$ DQPSK (2 Mbps) and 8DPSK (3 Mbps)

Antenna Information				
No.	Brand Name	Part No.	Type	Gain (dBi)
1	Quectel	YXU00A0AA	SMD	0.5

Note: The antenna of EUT conforms to FCC 15.203.

1.2. EUT Information

EUT Power Type	From Test Fixture
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1.3. Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC CFR Title 47 Part 15 Subpart C Section 15.247
- ♦ ANSI C63.10-2020

The following reference test guidance is not within the scope of accreditation of TAF:

- ♦ FCC KDB 558074 D01 15.247 Meas Guidance v05r02
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01

1.4. Testing Location Information

Testing Location Information		
Test Laboratory : DEKRA Testing and Certification Co., Ltd.		
V	Address	No. 85, Wenlin St., Linkou Dist., New Taipei City 244017, Taiwan, R.O.C.
	Performed Location	No. 26, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan, R.O.C.
	Phone/Fax Number	TEL: +886-3-275-7255 FAX: +886-3-327-8031
	USA	FCC Designation Number: TW0033 / FCC Registration Number: 647365
	Canada	CAB Identifier Number: TW3023 / Company Number: 26930
	Site Description	Accredited by TAF
		Accredited Number: 3023
	Address/ Performed Location	No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C.
	Phone/Fax Number	TEL: +886-3-582-8001 FAX: +886-3-582-8958
	USA	Test site Designation No. TW3024 with FCC.
	Canada	CAB Identifier Number: TW3024 / Company Number: 22397
	Site Description	Accredited by TAF
		Accredited Number: 3024
	Address/ Performed Location	No.372, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C.
	Phone/Fax Number	TEL: +886-3-582-8001 FAX: +886-3-582-8958
	USA	Test site Designation No. TW3024 with FCC.
	Canada	CAB Identifier Number: TW3024 / Company Number: 22397
	Site Description	Accredited by TAF
		Accredited Number: 3024

1.5. Ambient Conditions In The Laboratory

Performed Item	Items	Required	Actual	Test Date	Tested By
AC Power Line	Temperature (°C)	10~40 °C	25.4 °C	2026/04/15	Kevin Lai
Conducted Emission	Humidity (%RH)	10~90 %	50.6 %		
RF Conducted Emission	Temperature (°C)	10~40 °C	22.3~26.2 °C	2026/03/26 ~ 2026/04/01	Kevin Lai
	Humidity (%RH)	10~90 %	55.5~72.6 %		
Radiated Emission	Temperature (°C)	10~40 °C	24.1~24.2 °C	2026/04/07 ~ 2026/04/10	Bob Chiu
	Humidity (%RH)	10~90 %	61.2~66.3 %		

1.6. Measurement Uncertainty

Uncertainties have been calculated according to the DEKRA internal document.

The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

Test item	Uncertainty
AC Power Line Conducted Emission	± 3.50 dB
Occupied Bandwidth & 20dB Bandwidth	± 1580.61 Hz
Carrier Frequency Separation	± 1580.61 Hz
Maximum Peak Conducted Output Power	Spectrum Analyzer: ± 2.13 dB Power Meter: ± 1.05 dB
Number of Hopping Frequency	N/A
Dwell Time	± 0.62 %
Antenna Port Conducted Emission	± 2.13 dB
Radiated Emission	9 kHz~30 MHz: ± 3.30 dB 30 MHz~1 GHz: ± 5.19 dB 1 GHz~18 GHz: ± 4.46 dB 18 GHz~40 GHz: ± 4.19 dB
Duty Cycle	± 0.62 %

1.7. List of Test Equipment

For Conduction Measurements / HY-SR01

	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
V	EMI Test Receiver	R&S	ESR7	101601	2025/04/28	2026/04/27
V	Two-Line V-Network	R&S	ENV216	101306	2026/03/27	2028/03/26
V	Two-Line V-Network	R&S	ENV216	101307	2025/08/06	2027/08/05
V	Coaxial Cable	SUHNER	RG400_BNC	RF001	2026/01/10	2027/01/09

Note:

1. Two-Line V-Network is calibrated every two years, the other equipment is calibrated every year.
2. The test instruments marked with "V" are used to measure the final test results.
3. Test Software Version: e3 230303 dekra V9.

For Conducted Measurements / HY-SR02

	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
V	Spectrum Analyzer	R&S	FSV30	103467	2025/05/29	2026/05/28
V	Spectrum Analyzer	KEYSIGHT	N9010A	MY54510317	2025/08/04	2026/08/03
V	Peak Power Analyzer	KEYSIGHT	8990B	MY51000539	2025/05/05	2026/05/04
V	Wideband Power Sensor	KEYSIGHT	N1923A	MY59240002	2025/05/07	2026/05/06
V	Wideband Power Sensor	KEYSIGHT	N1923A	MY59240003	2025/05/07	2026/05/06

Note:

1. All equipment is calibrated every year.
2. The test instruments marked with "V" are used to measure the final test results.
3. Test Software Version : DTC_RF_Tool_Release V2.0.37.

For Radiated Measurements /HY-CB02

	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due. Date
V	Loop Antenna	TESEQ	HLA6121	49611	2026/02/04	2027/02/03
V	Bi-Log Antenna	SCHWARZBECK	VULB9168	9168-0675	2025/08/14	2027/08/13
V	Horn Antenna	RF SPIN	DRH18-E	210503A18ES	2026/02/06	2028/02/05
V	Horn Antenna	Com-Power	AH-840	101100	2025/10/07	2027/10/06
V	Pre-Amplifier	Queitek	MPA0301	AP-180C	2026/01/10	2027/01/09
V	Pre-Amplifier	SGH	PRAMP118	20200203	2026/01/10	2027/01/09
V	Pre-Amplifier	EMCI	EMC05820SE	980285	2026/01/10	2027/01/09
V	Pre-Amplifier	EMCI	EMC184045SE	980369	2026/01/10	2027/01/09
V	Coaxial Cable	EMCI	EMC102-KM-KM-600	160311	2026/01/10	2027/01/09
V	Coaxial Cable	SGH	HC360-2.92M/2.92M-7.0M	202108-1	2026/01/10	2027/01/09
V	Filter	MICRO TRONICS	BRM20887	G002	2026/01/05	2027/01/04
	Filter	MICRO TRONICS	BRM50716	G067	2026/01/05	2027/01/04
V	EMI Test Receiver	R&S	ESR3	102793	2025/12/01	2026/11/30
V	Spectrum Analyzer	R&S	FSV3044	101113	2025/12/23	2026/12/22
V	Coaxial Cable	SGH	HA800	GD20110223-2	2026/01/10	2027/01/09
V	Coaxial Cable	SGH	HA800	GD20110222-4	2026/01/10	2027/01/09
V	Coaxial Cable	SGH	SGH18	202108-5	2026/01/10	2027/01/09
V	Coaxial Cable	SGH	HA800-SMASMA-10M	202212-1	2026/01/10	2027/01/09

Note:

1. Bi-Log Antenna and Horn Antenna are calibrated every two years, the other equipment is calibrated every year.
2. The test instruments marked with "V" are used to measure the final test results.
3. Test Software Version: e3 230303 dekra V9.

2. Test Configuration of EUT

2.1. Test Condition

EUT Operational Condition	
Testing Voltage	DC 3.3V

2.2. Test Frequency Mode

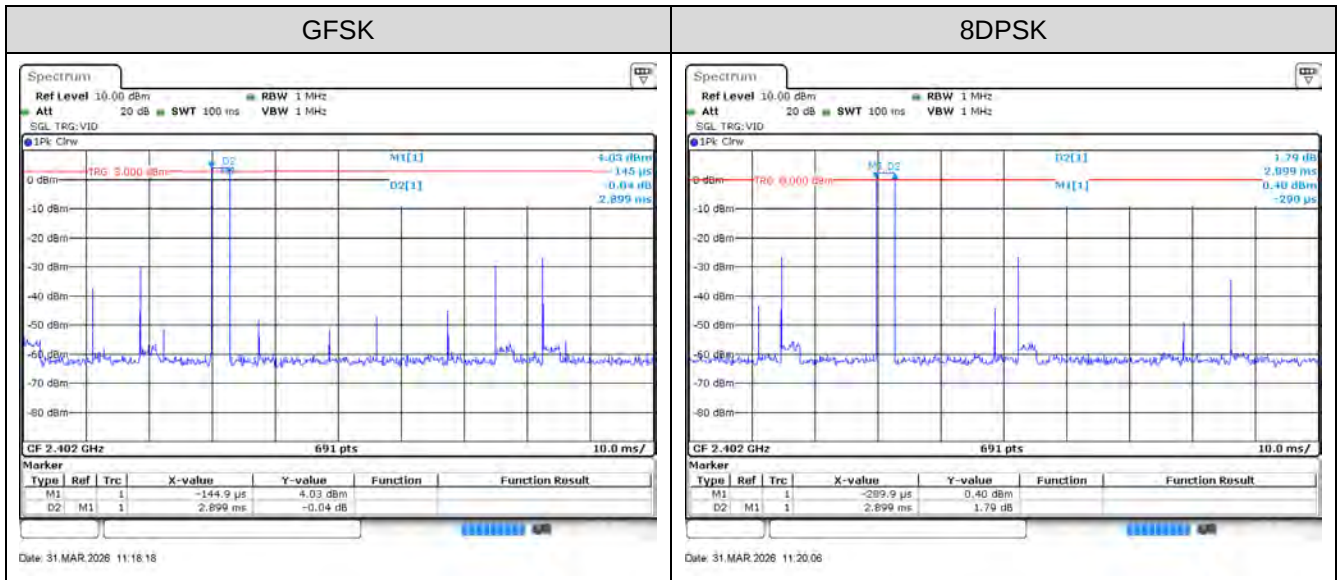
Test Software Version	CMD / Version: 10.0.26200.8039
-----------------------	--------------------------------

Modulation	Frequency (MHz)	Power Setting			
		SISO A	SISO B	MIMO A	MIMO B
GFSK	2402	default	--	--	--
	2441	default	--	--	--
	2480	default	--	--	--
8DPSK	2402	default	--	--	--
	2441	default	--	--	--
	2480	default	--	--	--

2.3. Duty Cycle

Modulation or Mode	Time on of 100 ms (ms)	Duty Cycle (Ton/100 ms)	Duty Cycle Correction Factor (dB)
GFSK	2.899	0.029	-30.752
8DPSK	2.899	0.029	-30.752

Note: Duty Cycle Correction Factor = $20 \cdot \log(\text{Duty Cycle})$.



2.4. Measurement Configuration

Tests Item	AC Power Line Conducted Emission
Test Condition	AC power line conducted measurement for line and neutral
Operating Mode	Transmit

Tests Item	Occupied Bandwidth & 20dB Bandwidth Carrier Frequency Separation Maximum Peak Conducted Output Power Number of Hopping Frequency Dwell Time Antenna Port Conducted Emission
Test Condition	Conducted measurement at transmit chains
Operating Mode	Transmit

Tests Item	Radiated Emission
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	Transmit
Operating Mode > 1GHz	Transmit

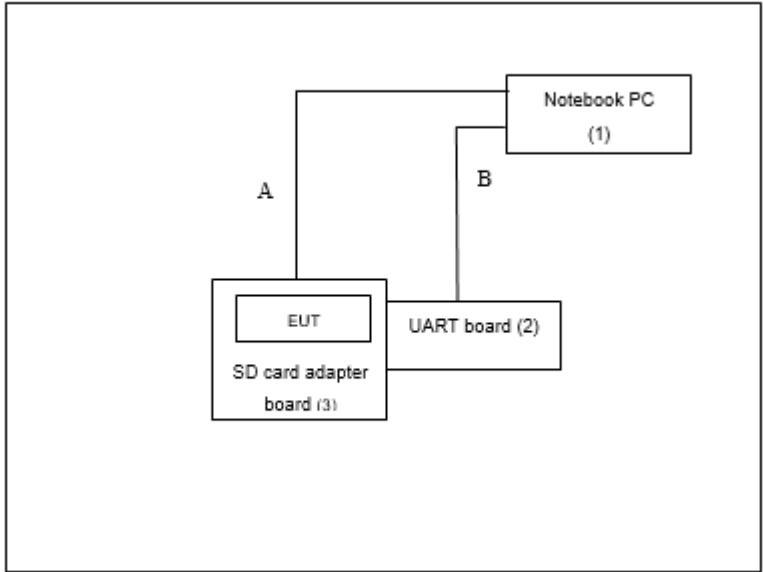
Note:

1. Determining compliance shall be based on the results of the compliance measurement, without taking measurement instrumentation uncertainty into account.
2. For radiated emissions below 1 GHz and AC power line conducted emissions, all modes of operation were investigated, and the worst-case emissions are reported.
3. The test mode is based on Bluetooth technology. While testing 1 Mbps, 2 Mbps, and 3 Mbps, the worst cases are 1 Mbps and 3 Mbps. Only the worst-case data is recorded in this report.

2.5. Tested System Details

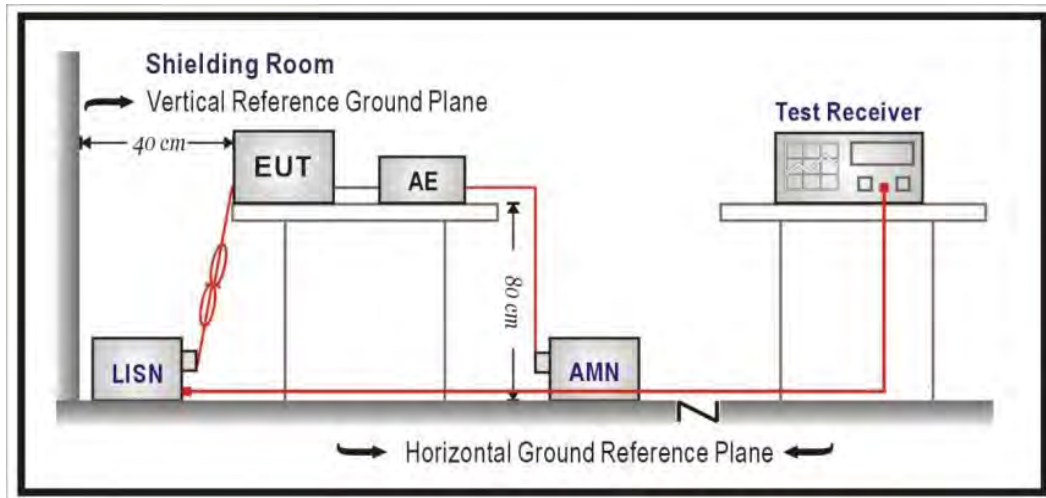
No.	Equipment	Brand Name	Model No.	Serial No.	Power Cord
1	Notebook PC	DELL	Latitude E5440	74BTK32	N/A
2	UART board	ability	UART	N/A	N/A
3	SD card adapter board	ability	AP6256_EVB	N/A	N/A

2.6. Configuration of Tested System

Connection Diagram		
 <pre> graph TD PC["Notebook PC (1)"] --- B["B"] --- UART["UART board (2)"] UART --- C["C"] --- EUT["EUT SD card adapter board (3)"] A["A"] --- EUT </pre>		
Signal Cable Type		Signal cable Description
A	Power Cable	Non-shielded, 1m
B	USB Mini B cable	Shielded, 1.8m
C	USB Mini B cable	Shielded, 1.8m

3. AC Power Line Conducted Emission

3.1. Test Setup



3.2. Test Limit

Frequency (MHz)	QP (dBuV)	AV (dBuV)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Remarks: In the above table, the tighter limit applies at the band edges.

3.3. Test Procedure

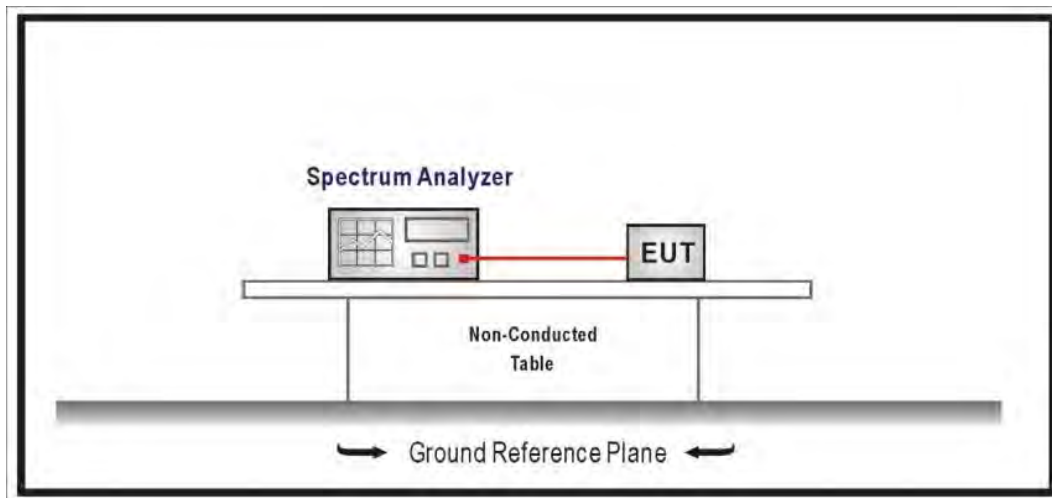
The EUT was setup according to ANSI C63.10-2020 for AC Power Line Conducted Emissions.

3.4. Test Result of AC Power Line Conducted Emission

Refer as Appendix A

4. Occupied Bandwidth & 20dB Bandwidth

4.1. Test Setup



4.2. Test Limit

N/A

4.3. Test Procedures

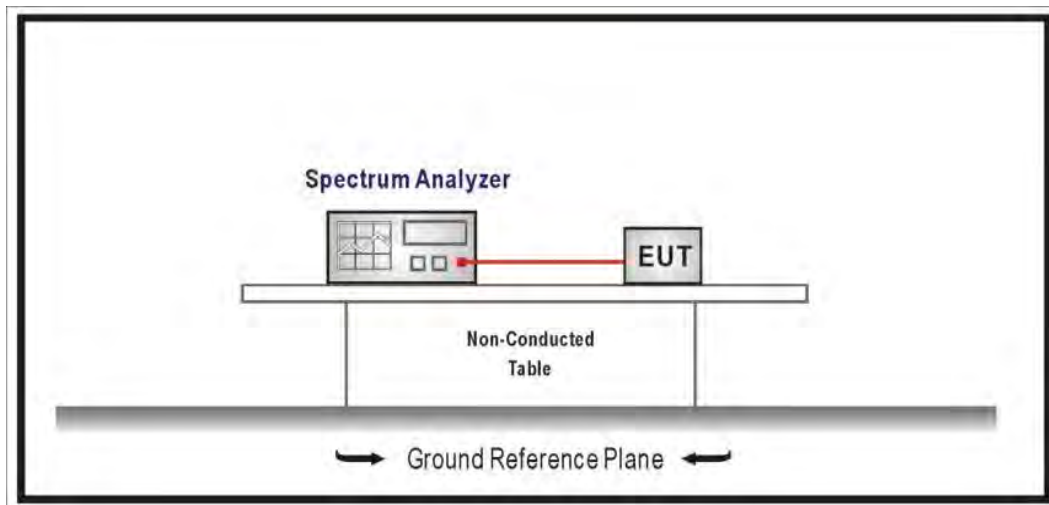
The EUT was setup according to ANSI C63.10-2020 and tested according to FHSS test procedure of KDB 558074.

4.4. Test Result of Occupied Bandwidth & 20dB Bandwidth

Refer as Appendix B

5. Carrier Frequency Separation

5.1. Test Setup



5.2. Test Limit

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 a Maximum Conducted 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.

5.3. Test Procedures

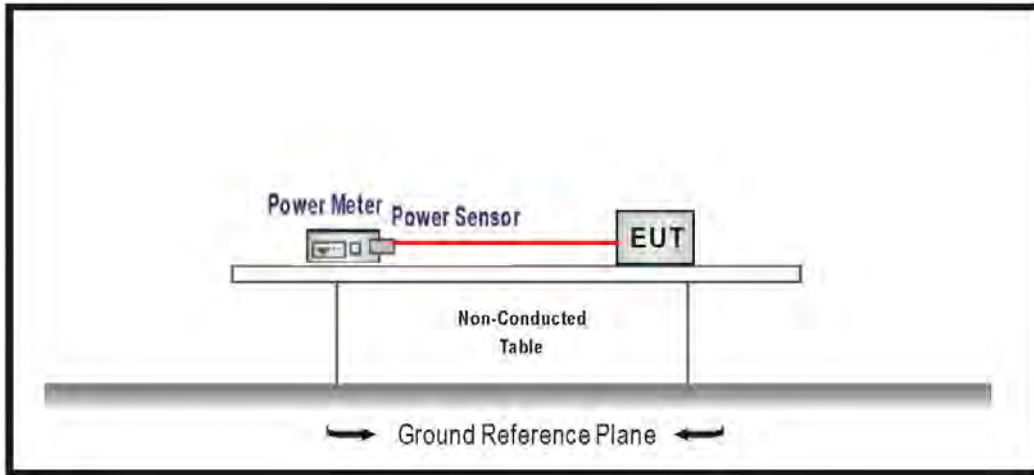
The EUT was setup according to ANSI C63.10-2020 and tested according to FHSS test procedure of KDB 558074.

5.4. Test Result of Carrier Frequency Separation

Refer as Appendix C

6. Maximum Peak Conducted Output Power

6.1. Test Setup



6.2. Test Limit

For frequency hopping systems operating in the 2400 ~ 2483.5 MHz band:

1. Number of Hopping Frequencies ≥ 75 : 1 watt (30dBm)
2. Number of Hopping Frequencies ≥ 15 : 0.125 watts (20.97dBm)

6.3. Test Procedures

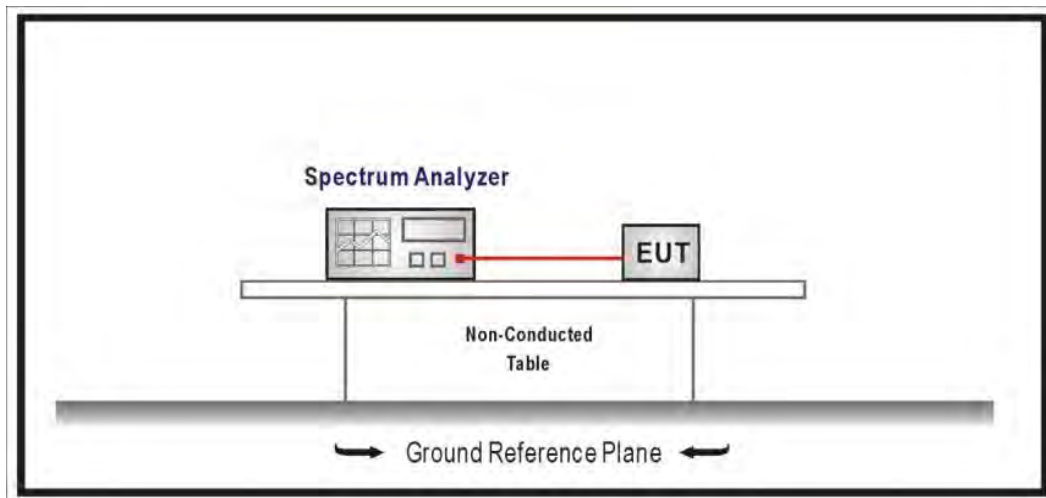
The EUT was setup according to ANSI C63.10-2020 and tested according to FHSS test procedure of KDB 558074.

6.4. Test Result of Maximum Peak Conducted Output Power

Refer as Appendix D

7. Number of Hopping Frequency

7.1. Test Setup



7.2. Test Limit

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.

7.3. Test Procedure

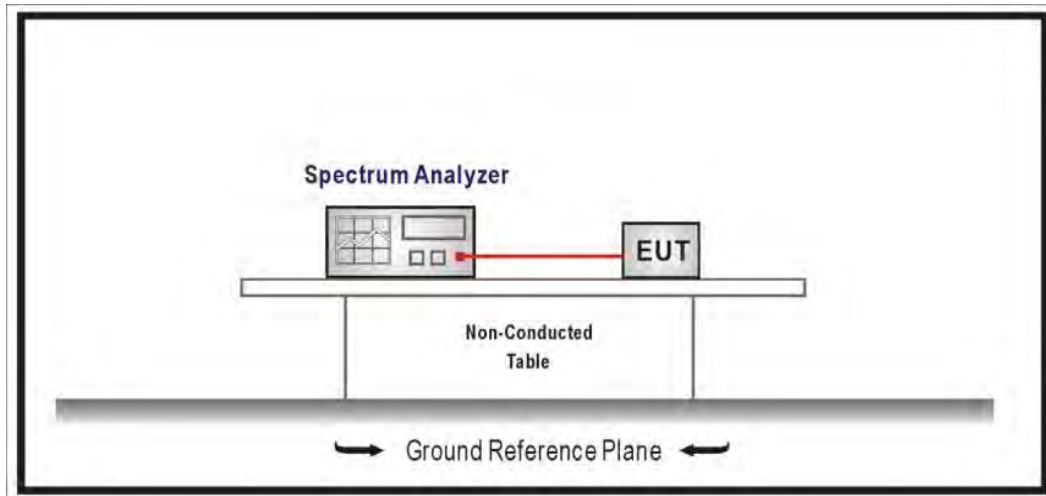
The EUT was setup according to ANSI C63.10-2020 and tested according to FHSS test procedure of KDB 558074.

7.4. Test Result of Number of Hopping Frequency

Refer as Appendix E

8. Dwell Time

8.1. Test Setup



8.2. Test Limit

For frequency hopping systems operating in the 2400-2483.5 MHz bands. 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.

8.3. Test Procedure

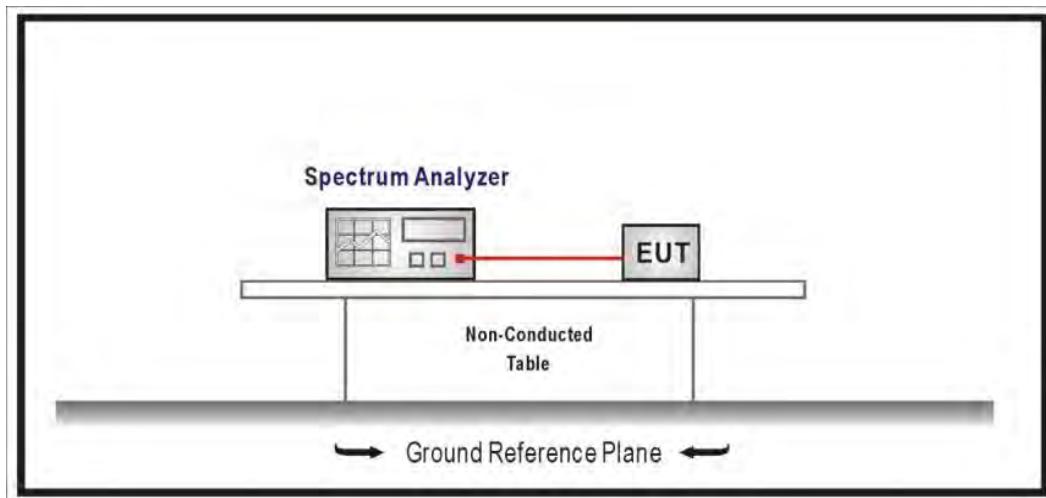
The EUT was setup according to ANSI C63.10-2020 and tested according to FHSS test procedure of KDB 558074.

8.4. Test Result of Dwell Time

Refer as Appendix F

9. Antenna Port Conducted Emission

9.1. Test Setup



9.2. Test Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the radio frequency power that is produced 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 measurement, provided the transmitter demonstrates compliance with the peak conducted power limit.

9.3. Test Procedure

The EUT was setup according to ANSI C63.10-2020 and tested according to FHSS test procedure of KDB 558074.

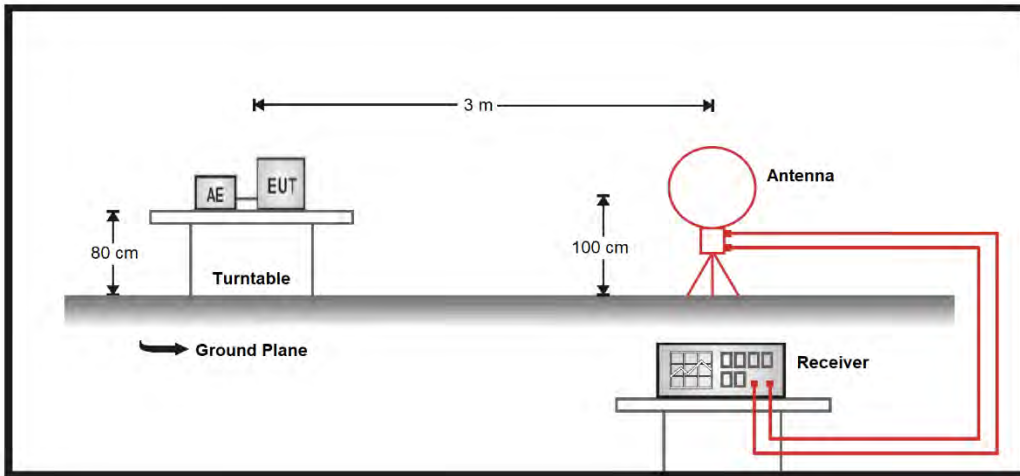
9.4. Test Result of Antenna Port Conducted Emission

Refer as Appendix G

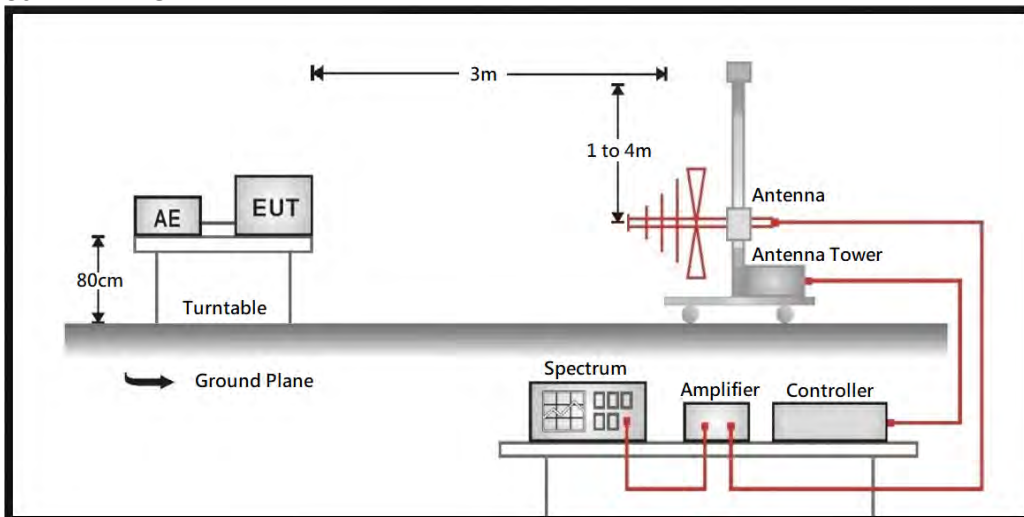
10. Radiated Emission

10.1. Test Setup

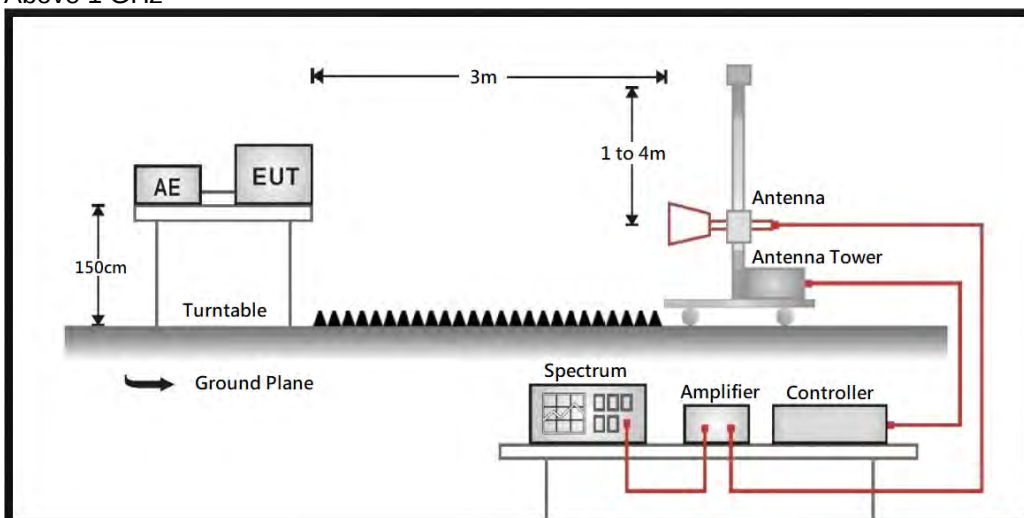
9 kHz ~ 30 MHz



30 MHz ~ 1 GHz



Above 1 GHz



10.2. Test Limit

Frequency (MHz)	Field strength (uV/m)	Field strength (dBuV/m)	Measurement distance (m)
0.009 – 0.490	2400/F(kHz)	20 log (2400/F(kHz))	300
0.490 – 1.705	24000/F(kHz)	20 log (24000/F(kHz))	30
1.705 - 30	30	29.5	30
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
Above 960	500	54	3

Remarks:

1. Field strength (dBuV/m) = 20 log Field strength (uV/m)
2. In the Above Table, the tighter limit applies at the band edges.
3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

10.3. Test Procedure

The EUT and all the supporting units are placed on a turn table which is 0.8 or 1.5 meters above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10-2020 on radiated measurement.

On any frequency or frequencies from 9 kHz (include the lowest oscillator frequency generated within the device up to the 10th harmonic) to 1000 MHz, the limit shown are based on measuring equipment employing a quasi-peak detector function and on any frequency or frequencies above 1000 MHz the radiated limit shown are based upon the use of measurement instrumentation employing an average detector function. When average radiated emission measurement are included emission measurement below 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

The bandwidth below 1 GHz setting on the field strength meter is 120 kHz and above 1 GHz is 1 MHz.

10.4. Test Result of Radiated Emission (Below 30 MHz)

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

10.5. Test Result of Radiated Emission

Refer as Appendix H

Appendix A. Test Result of AC Power Line Conducted Emission

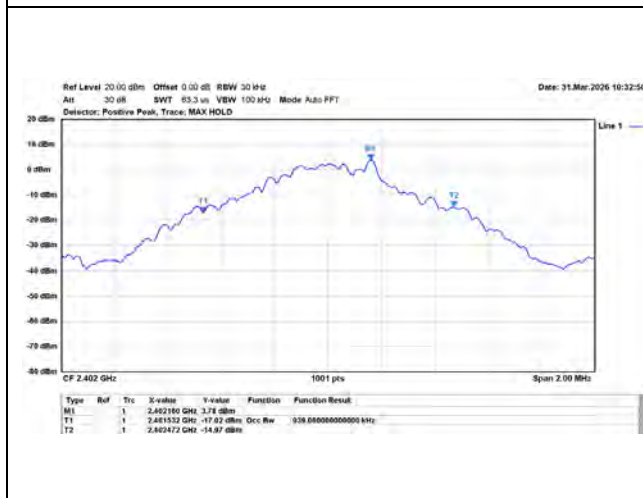
<

Appendix B. Test Result of Occupied Bandwidth & 20dB Bandwidth

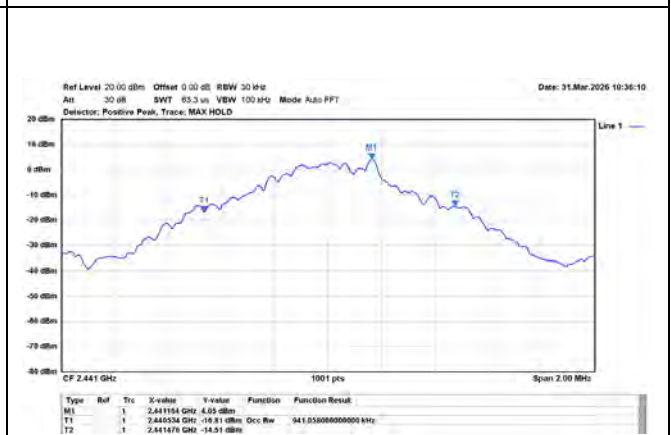
Modulation	Frequency (MHz)	99% Occupied Bandwidth (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	
				99% Occupied Bandwidth	20dB Bandwidth
GFSK	2402	0.94	1.03	-	-
	2441	0.94	1.03	-	-
	2480	0.94	1.03	-	-
8DPSK	2402	1.21	1.31	-	-
	2441	1.21	1.31	-	-
	2480	1.21	1.31	-	-

For 99% Occupied Bandwidth:

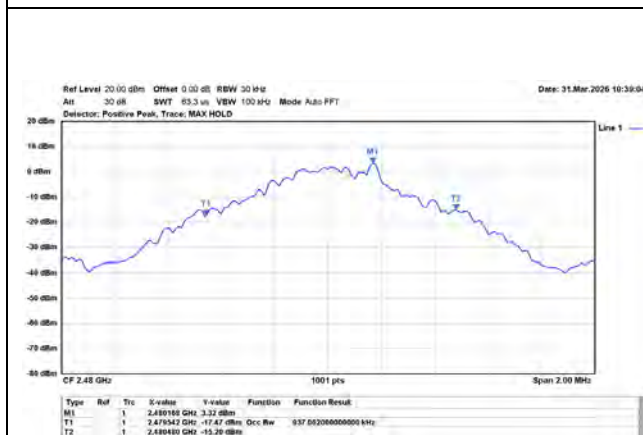
GFSK(DH5)/2402 MHz/Ch0/Ant.1



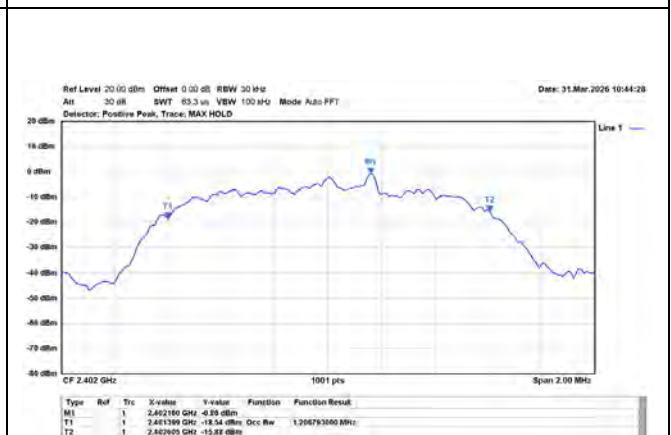
GFSK(DH5)/2441 MHz/Ch39/Ant.1



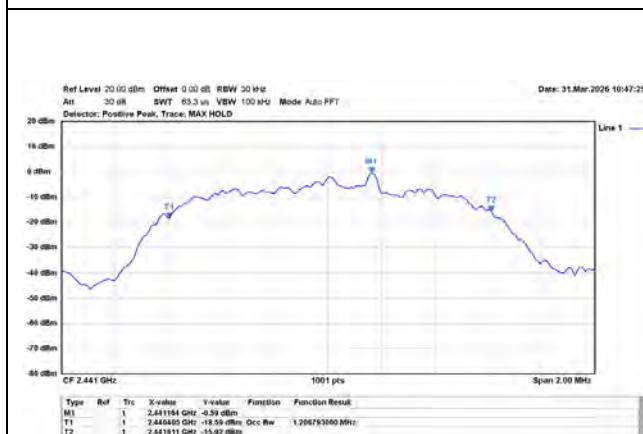
GFSK(DH5)/2480 MHz/Ch78/Ant.1



8DPSK(3DH5)/2402 MHz/Ch0/Ant.1



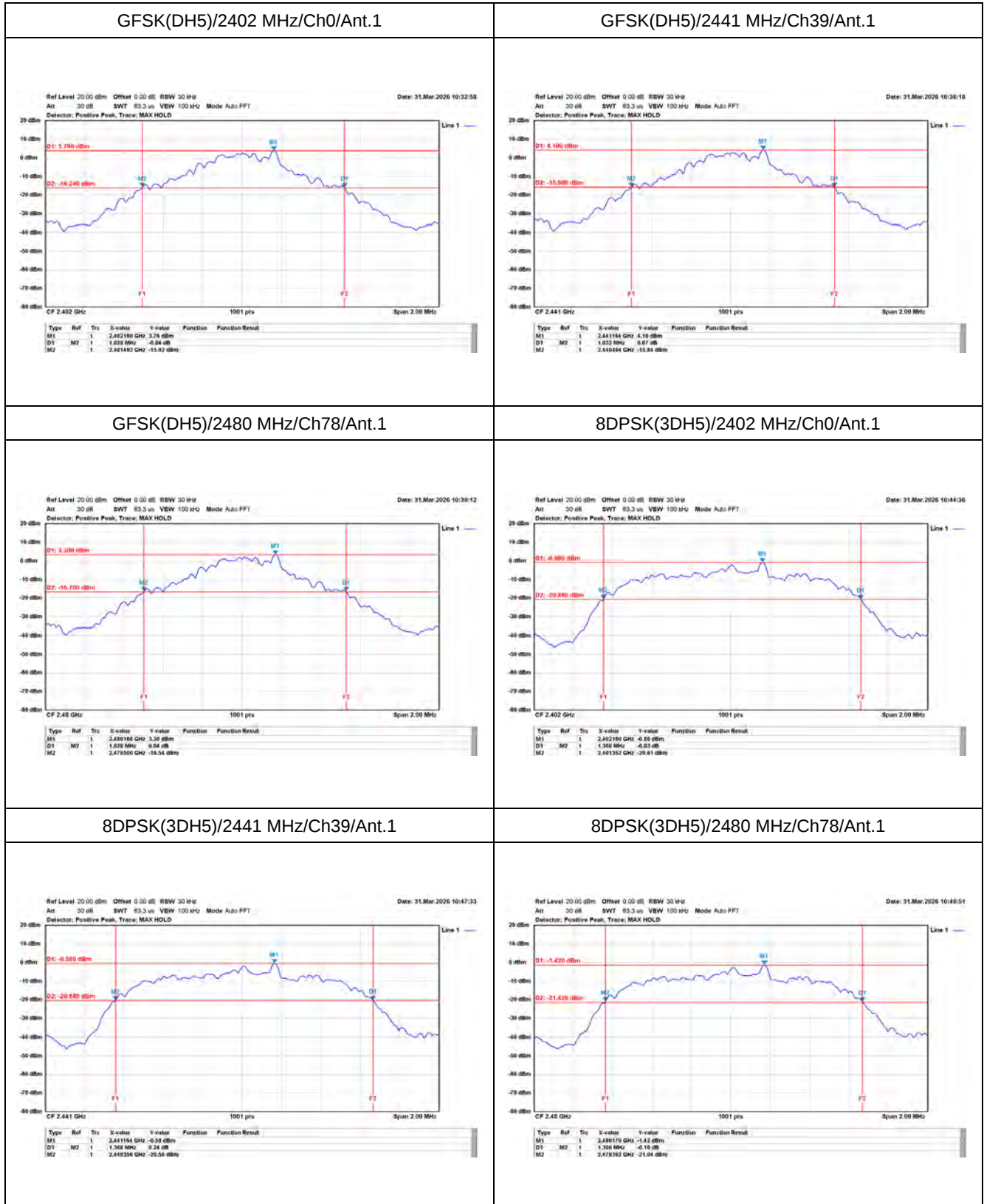
8DPSK(3DH5)/2441 MHz/Ch39/Ant.1



8DPSK(3DH5)/2480 MHz/Ch78/Ant.1

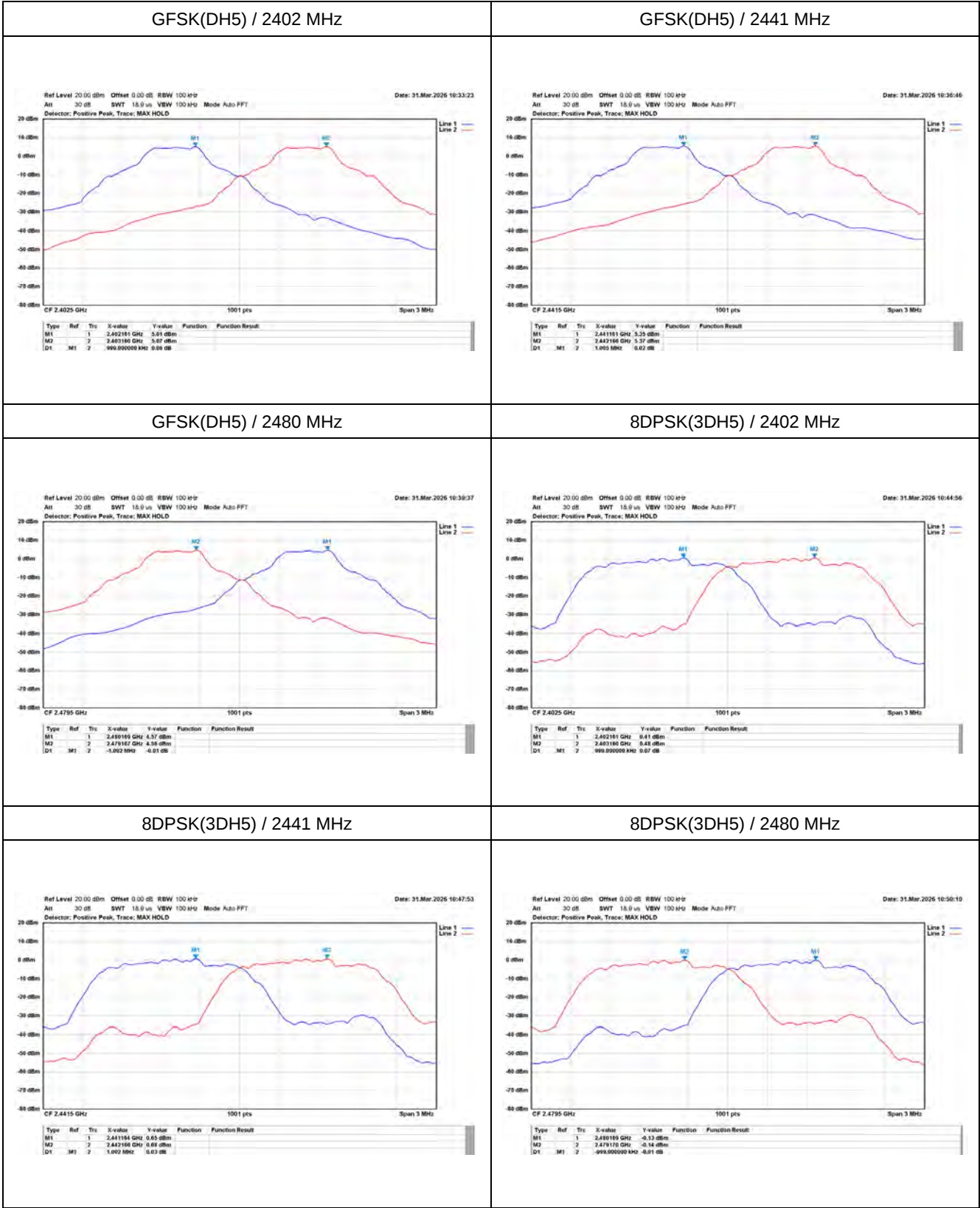


For 20dB Bandwidth:



Appendix C. Test Result of Carrier Frequency Separation

Modulation	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
GFSK	2402	0.99	0.685	Pass
	2441	1.00	0.688	Pass
	2480	1.00	0.685	Pass
8DPSK	2402	0.99	0.872	Pass
	2441	1.00	0.872	Pass
	2480	0.99	0.871	Pass

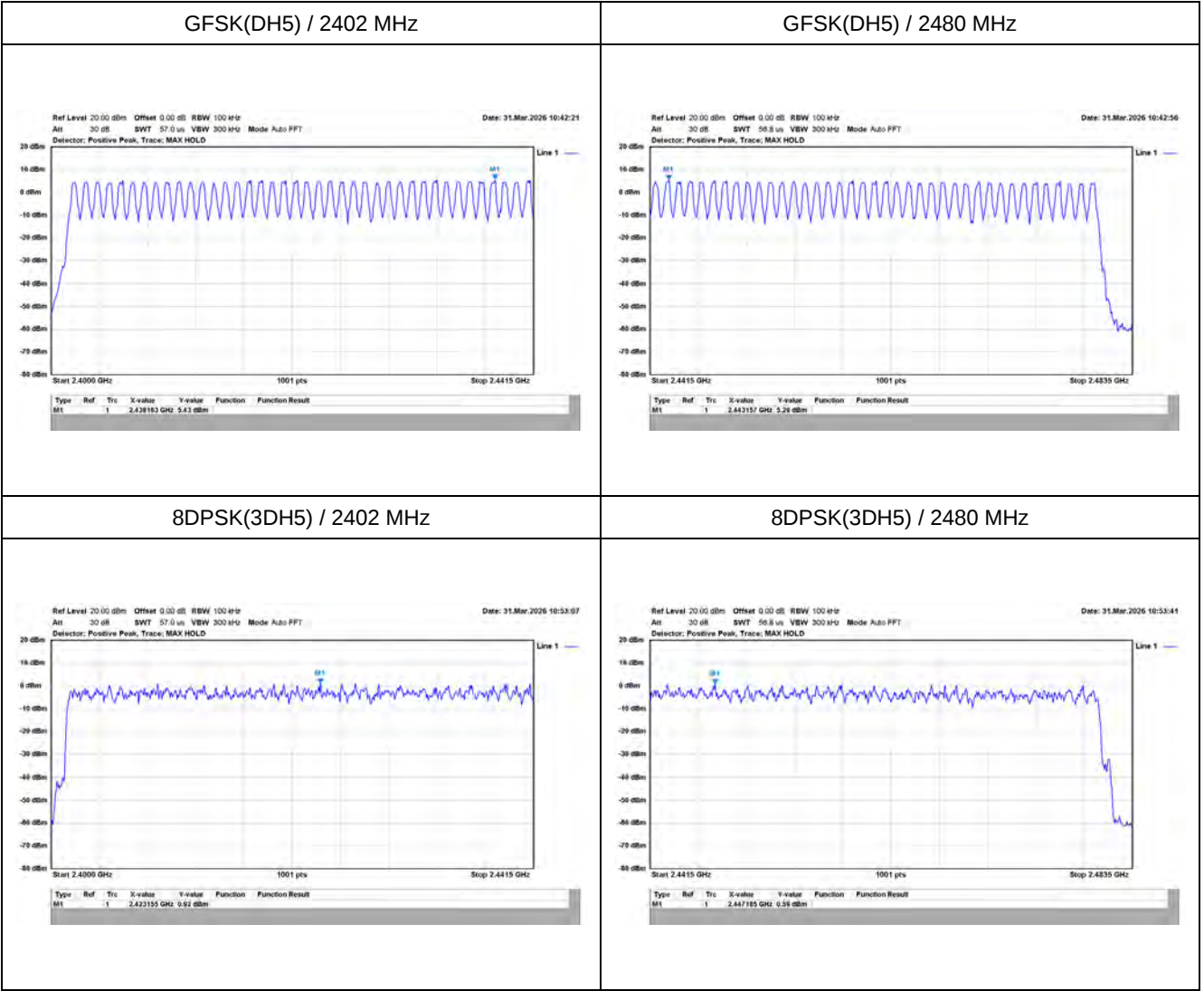


Appendix D. Test Result of Maximum Peak Conducted Output Power

Modulation	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)	Limit (dBm)	Result
GFSK	2402	6.67	21.00	Pass
	2441	6.95	21.00	Pass
	2480	6.51	21.00	Pass
8DPSK	2402	4.66	21.00	Pass
	2441	4.82	21.00	Pass
	2480	4.07	21.00	Pass

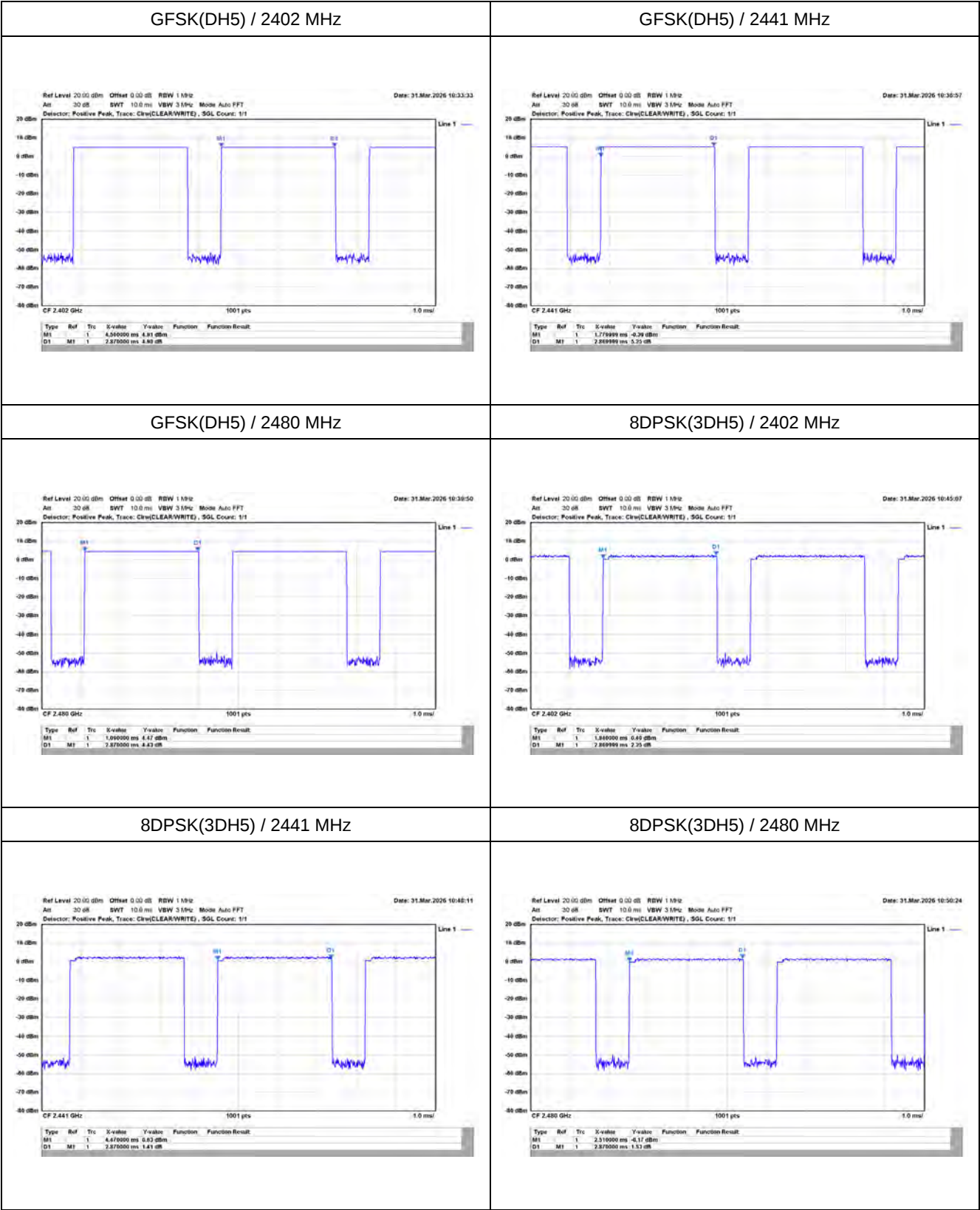
Appendix E. Test Result of Number of Hopping Frequency

Frequency (MHz)	Measure Level (Channels)	Limit (Channels)
2402.0 ~ 2480.0	79	≥ 15



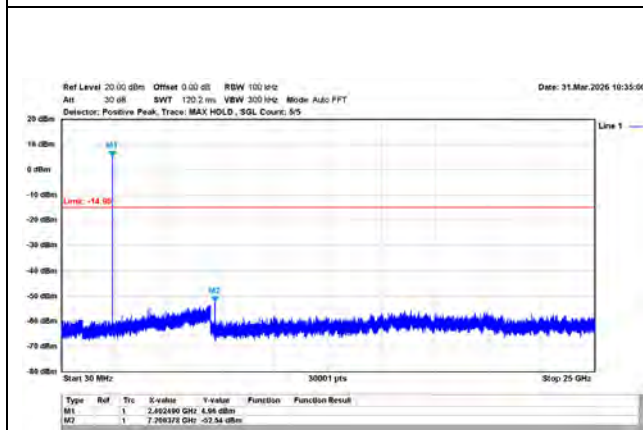
Appendix F. Test Result of Dwell Time

Modulation	Occupancy Time of Frequency Hopping System
GFSK	A) 2402 MHz Test Time Period: $0.4 \times 79 = 31.60$ sec, Time slot length : $2.87 = 0.002870$ sec
	Dwell Time : $0.002870 \times (266.67/79) \times 31.60 = 0.306$ sec °
	B) 2441 MHz Test Time Period: $0.4 \times 79 = 31.60$ sec, Time slot length : $2.87 = 0.002870$ sec
	Dwell Time : $0.002870 \times (266.67/79) \times 31.60 = 0.306$ sec °
	C) 2480 MHz Test Time Period: $0.4 \times 79 = 31.60$ sec, Time slot length : $2.87 = 0.002870$ sec
	Dwell Time : $0.002870 \times (266.67/79) \times 31.60 = 0.306$ sec °
8DPSK	A) 2402 MHz Test Time Period: $0.4 \times 79 = 31.60$ sec, Time slot length : $2.87 = 0.002870$ sec
	Dwell Time : $0.002870 \times (266.67/79) \times 31.60 = 0.306$ sec °
	B) 2441 MHz Test Time Period: $0.4 \times 79 = 31.60$ sec, Time slot length : $2.87 = 0.002870$ sec
	Dwell Time : $0.002870 \times (266.67/79) \times 31.60 = 0.306$ sec °
	C) 2480 MHz Test Time Period: $0.4 \times 79 = 31.60$ sec, Time slot length : $2.87 = 0.002870$ sec
	Dwell Time : $0.002870 \times (266.67/79) \times 31.60 = 0.306$ sec °
Test Result: The occupancy time of each highest, middle and lowest channel is less than 0.4 sec, and corresponds to the standard.	

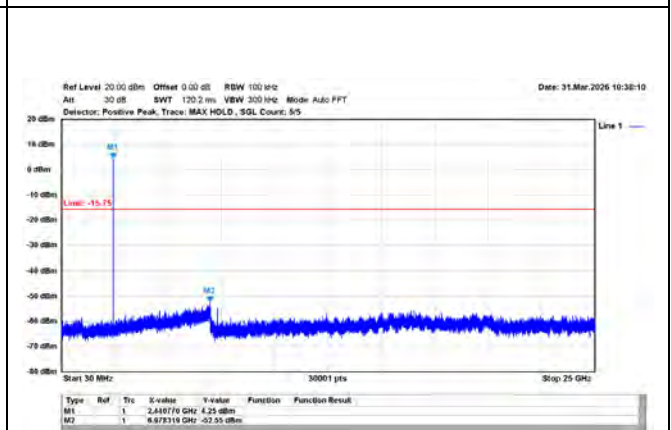


Appendix G. Test Result of Antenna Port Conducted Emission

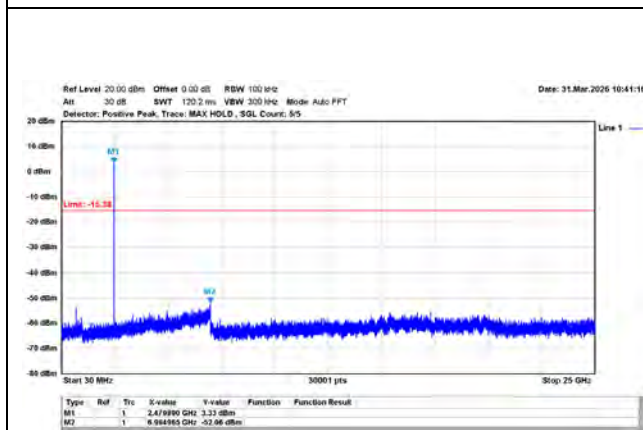
GFSK(DH5) / 2402 MHz



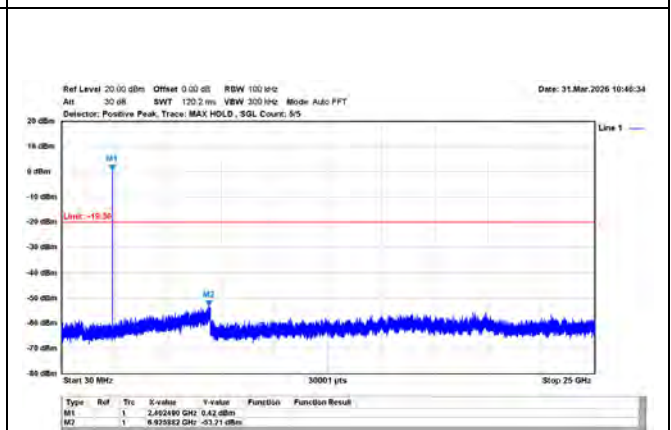
GFSK(DH5) / 2441 MHz



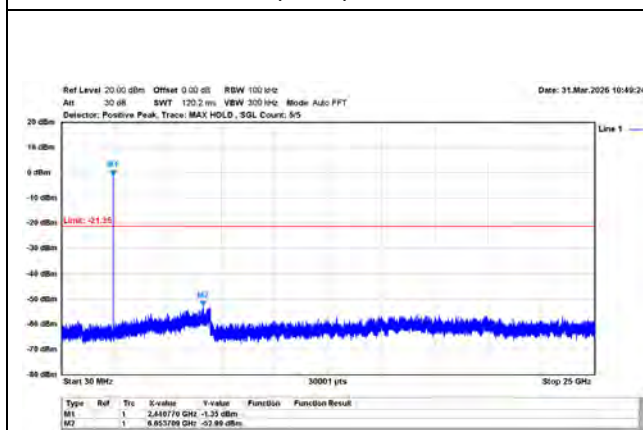
GFSK(DH5) / 2480 MHz



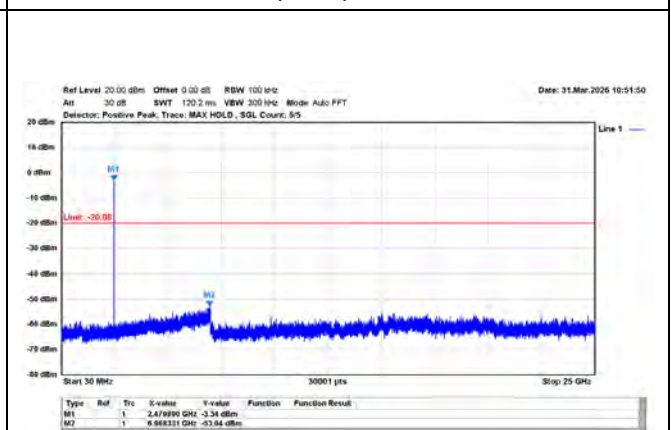
8DPSK(3DH5) / 2402 MHz

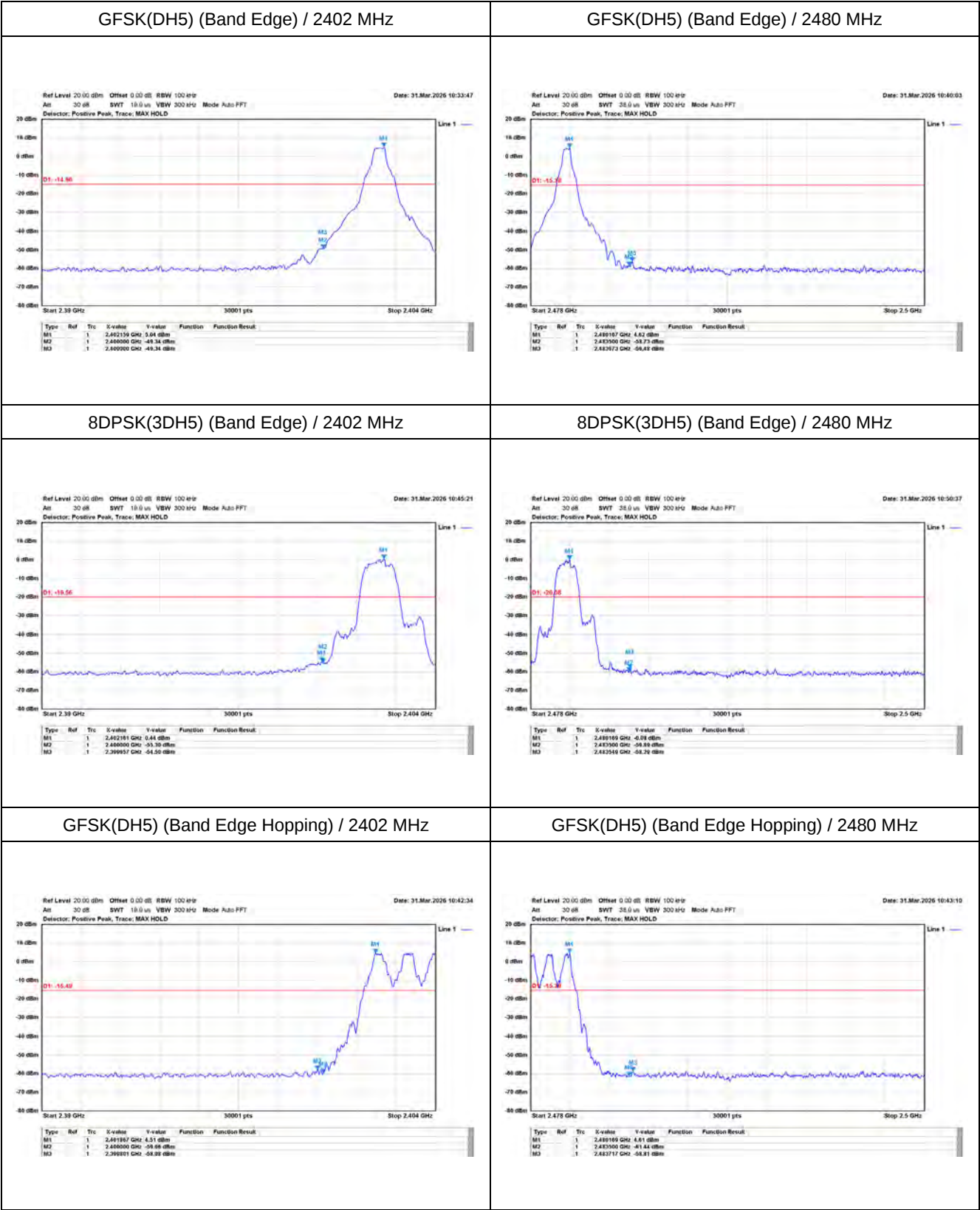


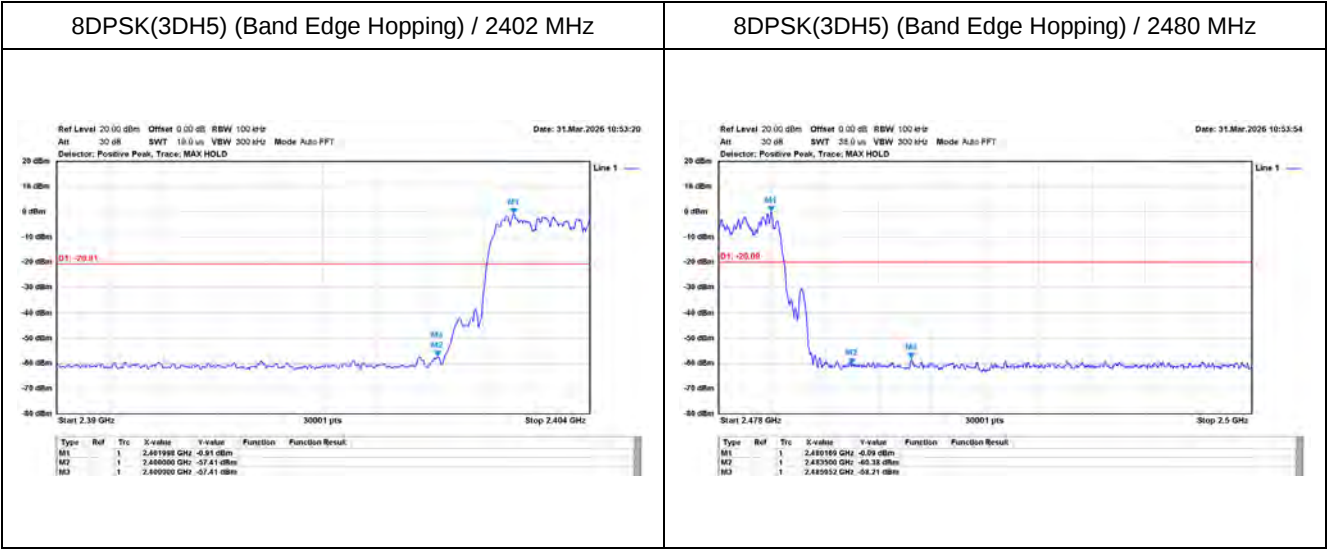
8DPSK(3DH5) / 2441 MHz



8DPSK(3DH5) / 2480 MHz







Appendix H. Test Result of Radiated Emission

TX_BT1M_2402MHz_H

Site :HY-CB02
Condition :3m ,HORIZONTAL
mode :TX_BT1M_2402MHz
Test by :Bob Chiu

Level (dBuV/m)

Date: 2026-04-10

No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	1538.688	45.44	74.00	-28.56	68.90	-23.46	Peak
2	3853.875	41.30	74.00	-32.70	57.10	-15.80	Peak
3	4884.000	44.94	74.00	-29.06	57.87	-12.13	Peak
4	7206.000	51.40	74.00	-22.60	56.66	-5.26	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

TX_BT1M_2402MHz_V

Site :HY-CB02
Condition :3m ,VERTICAL
mode :TX_BT1M_2402MHz
Test by :Bob Chiu

Level (dBuV/m)

Date: 2026-04-10

No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	1538.688	44.23	74.00	-29.77	67.69	-23.46	Peak
2	4804.000	43.34	74.00	-30.66	55.47	-12.13	Peak
3	7206.000	53.03	74.00	-20.97	58.29	-5.26	Peak
4	7966.813	47.94	74.00	-26.06	53.79	-5.85	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

TX_BT1M_2441MHz_H

Site :HY-CB02
Condition :3m ,HORIZONTAL
mode :TX_BT1M_2441MHz
Test by :Bob Chiu

Level (dBuV/m)

Date: 2026-04-10

No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	1538.688	45.06	74.00	-28.94	68.52	-23.46	Peak
2	3905.938	41.17	74.00	-32.83	56.82	-15.65	Peak
3	4882.000	43.70	74.00	-30.30	55.39	-11.69	Peak
4	7323.000	51.05	74.00	-22.95	56.11	-5.06	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

TX_BT1M_2441MHz_V

Site :HY-CB02
Condition :3m ,VERTICAL
mode :TX_BT1M_2441MHz
Test by :Bob Chiu

Level (dBuV/m)

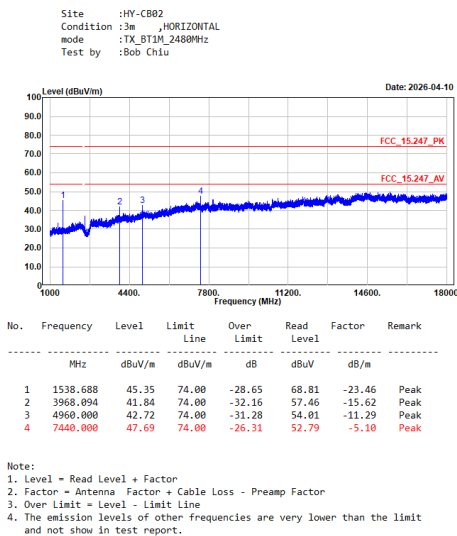
Date: 2026-04-10

No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	
1	1538.688	44.01	74.00	-29.99	67.47	-23.46	Peak
2	4882.000	43.43	74.00	-30.57	55.12	-11.69	Peak
3	7323.000	52.26	74.00	-21.74	57.32	-5.06	Peak
4	7970.531	47.60	74.00	-26.40	53.44	-5.84	Peak

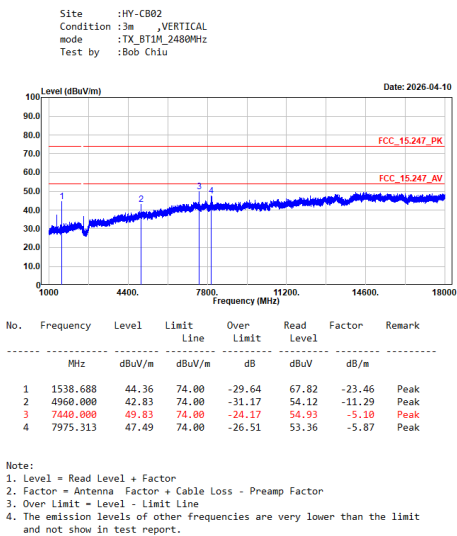
Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

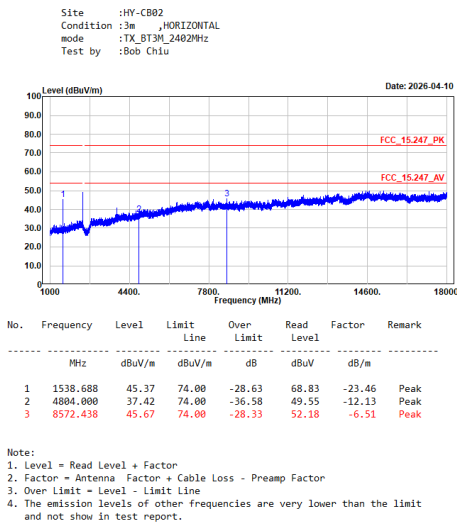
TX_BT1M_2480MHz_H



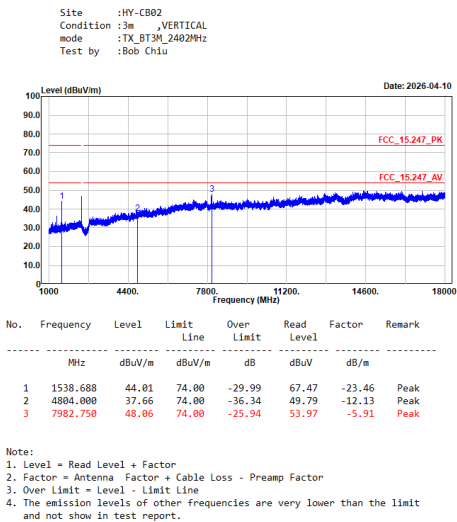
TX_BT1M_2480MHz_V



TX_BT3M_2402MHz_H

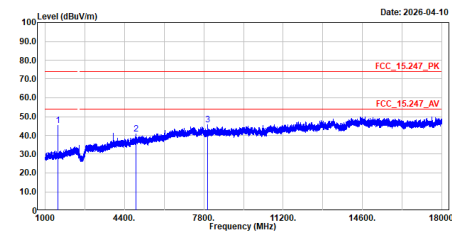


TX_BT3M_2402MHz_V



TX_BT3M_2441MHz_H

Site :HY-CB02
Condition :3m ,HORIZONTAL
mode :TX_BT3M_2441MHz
Test by :Bob Chiu

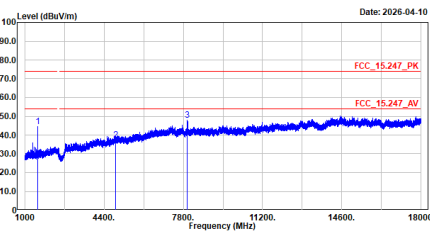


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB/m	
1	1538.688	45.35	74.00	-28.65	68.81	-23.46	Peak
2	4882.000	48.59	74.00	-33.41	52.28	-11.69	Peak
3	7975.313	45.57	74.00	-28.43	51.44	-5.87	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

TX_BT3M_2441MHz_V

Site :HY-CB02
Condition :3m ,VERTICAL
mode :TX_BT3M_2441MHz
Test by :Bob Chiu

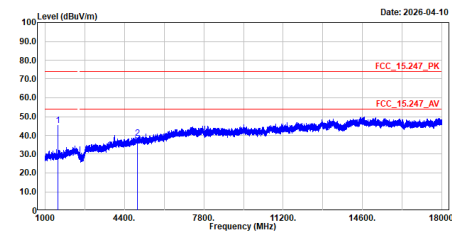


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB/m	
1	1538.688	44.56	74.00	-29.44	68.02	-23.46	Peak
2	4882.000	37.19	74.00	-36.81	48.88	-11.69	Peak
3	7966.281	48.06	74.00	-25.94	53.91	-5.85	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

TX_BT3M_2480MHz_H

Site :HY-CB02
Condition :3m ,HORIZONTAL
mode :TX_BT3M_2480MHz
Test by :Bob Chiu

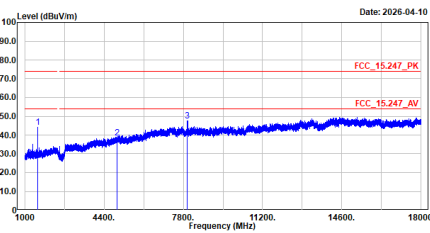


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB/m	
1	1538.688	45.40	74.00	-28.60	68.86	-23.46	Peak
2	4960.000	38.43	74.00	-35.57	49.72	-11.29	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

TX_BT3M_2480MHz_V

Site :HY-CB02
Condition :3m ,VERTICAL
mode :TX_BT3M_2480MHz
Test by :Bob Chiu

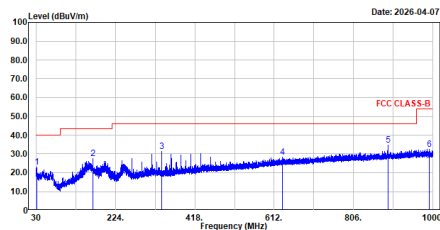


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB/m	
1	1538.688	44.24	74.00	-29.76	67.70	-23.46	Peak
2	4960.000	38.58	74.00	-35.42	49.87	-11.29	Peak
3	7963.094	47.70	74.00	-26.30	53.55	-5.85	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

TX_BT3M_2441MHz_H_QP

Site :HY-CB02
Condition :3m ,HORIZONTAL
mode :TX_BT3M_2441MHz
Test by :Bob Chiu

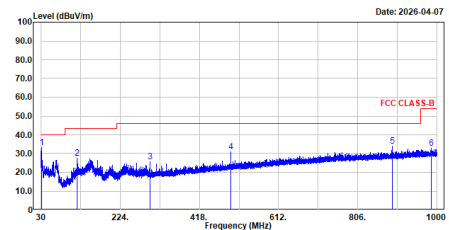


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB/m	
1	31.150	22.90	40.00	-17.10	33.88	-10.98	QP
2	168.007	27.41	43.50	-16.09	38.65	-11.24	QP
3	336.566	31.25	46.00	-14.75	40.57	-9.32	QP
4	632.231	28.34	46.00	-17.66	31.30	-2.96	QP
5	890.144	34.75	46.00	-11.25	34.74	0.01	QP
6	992.250	32.49	54.00	-21.51	31.20	1.29	QP

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission under 30MHz was not included since the emission levels are very low against the limit.

TX_BT3M_2441MHz_V_QP

Site :HY-CB02
Condition :3m ,VERTICAL
mode :TX_BT3M_2441MHz
Test by :Bob Chiu

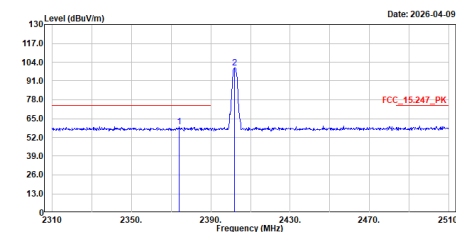


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB/m	
1	31.100	33.37	40.00	-6.63	44.33	-10.96	QP
2	118.655	27.54	43.50	-15.96	40.71	-13.17	QP
3	296.714	25.59	46.00	-20.41	36.09	-10.50	QP
4	494.524	31.13	46.00	-14.87	36.97	-5.84	QP
5	890.144	33.84	46.00	-12.16	33.83	0.01	QP
6	986.899	32.83	54.00	-21.17	31.50	1.33	QP

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission under 30MHz was not included since the emission levels are very low against the limit.

TX_BT1M_2402MHz_H_Peak

Site :HY-CB02
Condition :3m ,Horizontal
mode :TX_BT1M_2402MHz
Test by :Bob Chiu

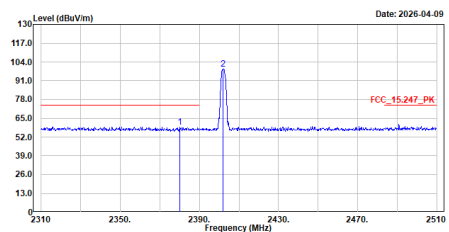


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB/m	
1	2374.000	59.36	74.00	-14.64	29.22	30.14	Peak
2	2402.000	100.29	-----	-----	70.17	30.12	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

TX_BT1M_2402MHz_V_Peak

Site :HY-CB02
Condition :3m ,Vertical
mode :TX_BT1M_2402MHz
Test by :Bob Chiu

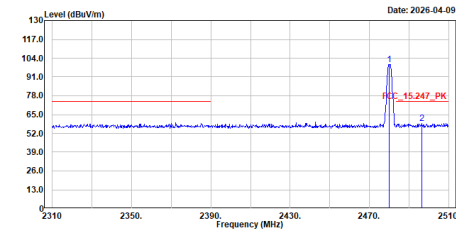


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB/m	
1	2380.200	58.73	74.00	-15.27	28.52	30.21	Peak
2	2402.000	99.31	-----	-----	69.19	30.12	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

TX_BT1M_2480MHz_H_Peak

Site :HY-CB02
Condition :3m ,Horizontal
mode :TX_BT1M_2480MHz
Test by :Bob Chiu



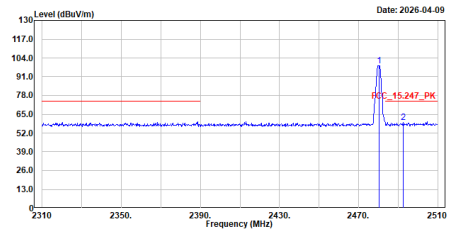
No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB/m	
1	2480.000	99.74	74.00	25.74	69.66	30.08	Peak
2	2496.400	58.71	74.00	-15.29	28.52	30.19	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

TX_BT1M_2480MHz_V_Peak

Site :HY-CB02
Condition :3m ,Vertical
mode :TX_BT1M_2480MHz
Test by :Bob Chiu



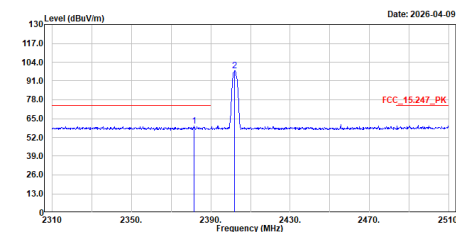
No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB/m	
1	2480.400	98.78	74.00	24.78	68.70	30.08	Peak
2	2492.600	59.48	74.00	-14.60	29.21	30.19	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

TX_BT3M_2402MHz_H_Peak

Site :HY-CB02
Condition :3m ,Horizontal
mode :TX_BT3M_2402MHz
Test by :Bob Chiu



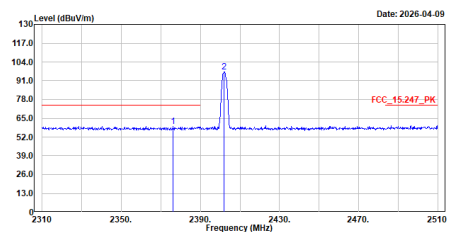
No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB/m	
1	2381.400	59.68	74.00	-14.32	29.47	30.21	Peak
2	2402.000	98.04	74.00	24.04	67.92	30.12	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

TX_BT3M_2402MHz_V_Peak

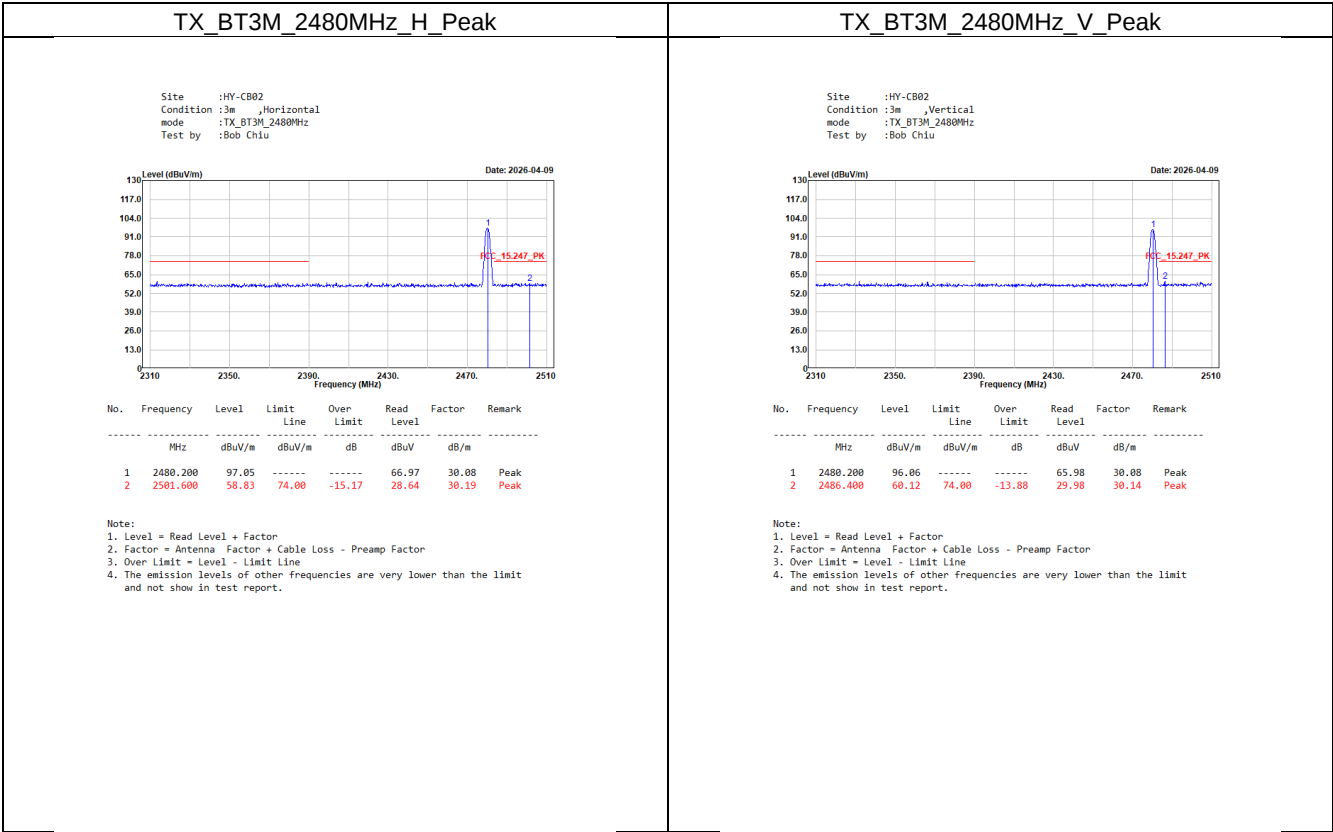
Site :HY-CB02
Condition :3m ,Vertical
mode :TX_BT3M_2402MHz
Test by :Bob Chiu



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB/m	
1	2376.200	59.44	74.00	-14.56	29.28	30.16	Peak
2	2402.000	96.91	74.00	22.91	66.79	30.12	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.



Calculating Average Emission

Horizontal Polarization for Average Detector:

Modulation	Channel No.	Frequency (MHz)	Peak Measurement (dB μ V/m)	Duty Cycle Factor (dB)	Measurement Level (dB μ V/m)	Margin (dB)	Limit (dB μ V/m)
GFSK	0	2374.0	59.36	-30.752	28.608	-25.392	54
		2402.0	100.29	-30.752	69.538	--	--
	78	2480.0	99.74	-30.752	68.988	--	--
		2496.4	58.71	-30.752	27.958	-26.042	54
8DPSK	0	2381.4	59.68	-30.752	28.928	-25.072	54
		2402.0	98.04	-30.752	67.288	--	--
	78	2480.2	97.05	-30.752	66.298	--	--
		2501.6	58.83	-30.752	28.078	-25.922	54

Vertical Polarization for Average Detector:

Modulation	Channel No.	Frequency (MHz)	Peak Measurement (dB μ V/m)	Duty Cycle Factor (dB)	Measurement Level (dB μ V/m)	Margin (dB)	Limit (dB μ V/m)
GFSK	0	2380.2	58.73	-30.752	27.978	-26.022	54
		2402.0	99.31	-30.752	68.558	--	--
	78	2480.4	98.78	-30.752	68.028	--	--
		2492.6	59.40	-30.752	28.648	-25.352	54
8DPSK	0	2376.2	59.44	-30.752	28.688	-25.312	54
		2402.0	96.91	-30.752	66.158	--	--
	78	2480.2	96.06	-30.752	65.308	--	--
		2486.4	60.12	-30.752	29.368	-24.632	54

Worst-Case Emissions Above 18 GHz

