

FCC Test Report

Product Name : Tablet
Brand Name : MiTAC
Model No. : Cappuccino-Tablet
FCC ID : 2ADL6-CAPPUCCINO

Applicant : MITAC COMPUTING TECHNOLOGY
CORPORATION

Address : No. 200, Wen Hwa 2nd Rd., Kuei Shan Dist.,
TAOYUAN, 33383 Taiwan

Date of Receipt : Apr. 06, 2020
Issued Date : Mar. 17, 2022
Report No. : 2040094R-E3032110108
Report Version : V2.0



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.


This report must not be used to claim product endorsement by TAF or any agency of the government. 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.

The test report shall not be reproduced except in full without the written approval of DEKRA Testing and Certification Co., Ltd.

Test Report Certification



Product Name : Tablet
Applicant : MITAC COMPUTING TECHNOLOGY CORPORATION
Address : No. 200, Wen Hwa 2nd Rd., Kuei Shan Dist., TAOYUAN, 33383
Taiwan
Manufacturer : MITAC COMPUTING TECHNOLOGY CORPORATION
Address : No. 200, Wen Hwa 2nd Rd., Kuei Shan Dist., TAOYUAN, 33383
Taiwan
Brand Name : MiTAC
Model No. : Cappuccino-Tablet
FCC ID : 2ADL6-CAPPUCCINO
EUT Voltage : AC 120 ~ 240V, 50-60Hz (Adapter)
DC 7.6V (Battery)
Testing Voltage : AC 120V/60Hz
Applicable Standard : FCC CFR Title 47 Part 15 Subpart C Section 15.247
ANSI C63.10: 2013
Laboratory Name : Hsin Chu Laboratory
Address : No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu
County 310, Taiwan, R.O.C.
TEL: +886-3-582-8001 / FAX: +886-3-582-8958
Test Result : Complied

Documented By : 

(Amelia Wu / Project Specialist)

Approved By : 

(Louis Hsu / Deputy Manager)

The test results relate only to the samples tested.

The test report shall not be reproduced except in full without the written approval of DEKRA
Testing and Certification Co., Ltd.

Revision History

Version	Description	Issued Date
V1.0	Initial issue of report	Jul. 07, 2020
V2.0	1. Revising the antenna information. 2. Adding the docking station, power adapter and power cord (for docking station or extension cover). After evaluating, it was re-test for AC Power Line Conducted Emission and Radiated Emission Below 1 GHz.	Mar. 17, 2022

TABLE OF CONTENTS

Description	Page
1. General Information	6
1.1. EUT Description	6
1.2. Test Mode.....	8
1.3. Comments and Remarks	9
1.4. Tested System Details	10
1.5. Configuration of tested System.....	10
1.6. EUT Operation of during Test	11
1.7. Test Facility	12
1.8. List of Test Equipment	14
1.9. Measurement Uncertainty.....	16
1.10. Duty Cycle.....	17
2. AC Power Line Conducted Emission	18
2.1. Test Setup	18
2.2. Test Limit	18
2.3. Test Procedure	18
2.4. Test Specification	18
2.5. Test Result of AC Power Line Conducted Emission	19
3. Maximum Conducted Output Power	25
3.1. Test Setup	25
3.2. Test Limit	25
3.3. Test Procedures	25
3.4. Test Specification	25
3.5. Test Result of Maximum Conducted Output Power	26
4. Radiated Emission	27
4.1. Test Setup	27
4.2. Test Limit	28
4.3. Test Procedure	29
4.4. Test Specification	29
4.5. Test Result of Radiated Emissions (30 MHz ~ 1 GHz)	30
4.6. Test Result of Radiated Emissions (1 GHz ~ 10 th Harmonic)	36
5. Antenna Port Conducted Emission	48
5.1. Test Setup	48
5.2. Test Limit	48
5.3. Test Procedure	48
5.4. Test Specification	48
5.5. Test Result of Antenna Port Conducted Emission.....	49

6.	Radiated Emission Band Edge	50
6.1.	Test Setup	50
6.2.	Test Limit	50
6.3.	Test Procedure	51
6.4.	Test Specification	51
6.5.	Test Result of Radiated Emission Band Edge.....	52
7.	Number of Hopping Frequency	84
7.1.	Test Setup	84
7.2.	Test Limit	84
7.3.	Test Procedures	85
7.4.	Test Specification	85
7.5.	Test Result of Number of Hopping Frequency	86
8.	Carrier Frequency Separation.....	87
8.1.	Test Setup	87
8.2.	Test Limit	87
8.3.	Test Procedures	87
8.4.	Test Specification	87
8.5.	Test Result of Carrier Frequency Separation	88
9.	20dB Bandwidth.....	90
9.1.	Test Setup	90
9.2.	Test Limit	90
9.3.	Test Procedures	90
9.4.	Test Specification	90
9.5.	Test Result of 20dB Bandwidth.....	91
10.	Dwell Time.....	93
10.1.	Test Setup	93
10.2.	Test Limit	93
10.3.	Test Procedures	94
10.4.	Test Specification	94
10.5.	Test Result of Dwell Time	95
Appendix A	97
	Test Setup Photograph	97

1. General Information

1.1. EUT Description

Product Name	Tablet
Brand Name	MiTAC
Model No.	Cappuccino-Tablet
Frequency Range	2402 ~ 2480 MHz
Channel Number	79 Channels
Type of Modulation	Frequency Hopping Spread Spectrum
Data Rate	BR uses a GFSK (1 Mbps)
	EDR uses a combination of $\pi/4$ -DQPSK (2 Mbps) and 8DPSK (3 Mbps)

Accessories Information				
No.	Equipment Name	Brand Name	Model No.	Rating
1	Power Adapter with power cord (for EUT)	APD	NB65B19	INPUT: 100 ~ 240V,50/60Hz, 1.6A OUTPUT: 19V, 3.42A Cable In: Non-Shielded, 0.9 m Cable Out: Non-Shielded, 1.7m
2	Power Adapter (for Docking Station or Extension Cover)	DELTA	DPS-180AB-21	INPUT: 100 ~ 240V,50/60Hz, 3-1.5A OUTPUT: 24V, 7.5A Cable Out: Non-Shielded, 1.2m with 2 ferrite cores
3	Power cord (for Docking Station or Extension Cover)	DELTA	CCBL-0317	Cable In: Non-Shielded, 1.7 m
4	Battery	Getac	BP-CAP-21/2570 VKB	7.6V, 2570mAh, 19.532Wh
No.	Equipment Name	Brand Name		Model No.
5	Docking Station	Cappuccino		Cappuccino-Docking Station
6	Extension Cover	Cappuccino		Cappuccino-Extension Cover
7	Charging Cradle	Cappuccino		Cappuccino-Charging Cradle
No.	Equipment Name	Remark		
8	Strap	1Pcs		

Antenna Information				
Ant.	Brand Name	Model No.	Type	Antenna Gain (dBi)
1	ARISTOTLE	RFA-25-AP957-AUX	PIFA Antenna	4.63

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
00	2402 MHz	20	2422 MHz	40	2442 MHz	60	2462 MHz
01	2403 MHz	21	2423 MHz	41	2443 MHz	61	2463 MHz
02	2404 MHz	22	2424 MHz	42	2444 MHz	62	2464 MHz
03	2405 MHz	23	2425 MHz	43	2445 MHz	63	2465 MHz
04	2406 MHz	24	2426 MHz	44	2446 MHz	64	2466 MHz
05	2407 MHz	25	2427 MHz	45	2447 MHz	65	2467 MHz
06	2408 MHz	26	2428 MHz	46	2448 MHz	66	2468 MHz
07	2409 MHz	27	2429 MHz	47	2449 MHz	67	2469 MHz
08	2410 MHz	28	2430 MHz	48	2450 MHz	68	2470 MHz
09	2411 MHz	29	2431 MHz	49	2451 MHz	69	2471 MHz
10	2412 MHz	30	2432 MHz	50	2452 MHz	70	2472 MHz
11	2413 MHz	31	2433 MHz	51	2453 MHz	71	2473 MHz
12	2414 MHz	32	2434 MHz	52	2454 MHz	72	2474 MHz
13	2415 MHz	33	2435 MHz	53	2455 MHz	73	2475 MHz
14	2416 MHz	34	2436 MHz	54	2456 MHz	74	2476 MHz
15	2417 MHz	35	2437 MHz	55	2457 MHz	75	2477 MHz
16	2418 MHz	36	2438 MHz	56	2458 MHz	76	2478 MHz
17	2419 MHz	37	2439 MHz	57	2459 MHz	77	2479 MHz
18	2420 MHz	38	2440 MHz	58	2460 MHz	78	2480 MHz
19	2421 MHz	39	2441 MHz	59	2461 MHz	-	-

Note:

1. Regards to the frequency band operation; the lowest middle and highest frequency of channel were selected to perform the test, and then shown on this report.
2. The above EUT information is declared by the manufacturer.

1.2. Test Mode

DEKRA has verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Test Mode	Mode 1: Transmit_ Adapter Mode 2: Transmit_ Docking Station Mode 3: Transmit_ Extension Cover
-----------	---

Test Items	Test Mode	Modulation	Channel	Result
AC Power Line Conducted Emission	Mode 1	8-DPSK	78	Pass
	Mode 2			
	Mode 3			
Maximum Conducted Output Power	Mode 1	GFSK	00/39/78	Pass
		8-DPSK	00/39/78	Pass
Radiated Emission Below 1 GHz	Mode 1	8-DPSK	78	Pass
	Mode 2			
	Mode 3			
Radiated Emission Above 1 GHz	Mode 3	GFSK	00/39/78	Pass
		8-DPSK	00/39/78	Pass
Antenna Port Conducted Emission	Mode 1	GFSK	00/39/78	Pass
		8-DPSK	00/39/78	Pass
Radiated Emission Band Edge	Mode 3	GFSK	00/39/78	Pass
		8-DPSK	00/39/78	Pass
Number of Hopping Frequency	Mode 1	GFSK	Hopping mode	Pass
Carrier Frequency Separation	Mode 1	GFSK	00/39/78	Pass
		8-DPSK	00/39/78	Pass
20dB Bandwidth	Mode 1	GFSK	00/39/78	Pass
		8-DPSK	00/39/78	Pass
Dwell Time	Mode 1	GFSK	00/39/78	Pass
		8-DPSK	00/39/78	Pass

Note:

- Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- For radiated emission below 1 GHz and AC power line conducted emission have performed all modes of operation were investigated and the worst-case emissions are reported.

4. There are five modes for radiated emission and band edge tests (EUT in X axis, EUT in Y axis, EUT in Z axis, EUT with docking station and EUT with extension cover).

"EUT with extension cover" generated the worst test result for radiated emission below 1GHz test, thus the measurement for radiated emission above 1 GHz and radiated emission band edge test will follow this same test configuration.

1.3. Comments and Remarks

The product specification and testing instructions for the EUT declared in the report are provided by the manufacturer who will take all responsibilities for the accuracy.

1.4. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system.

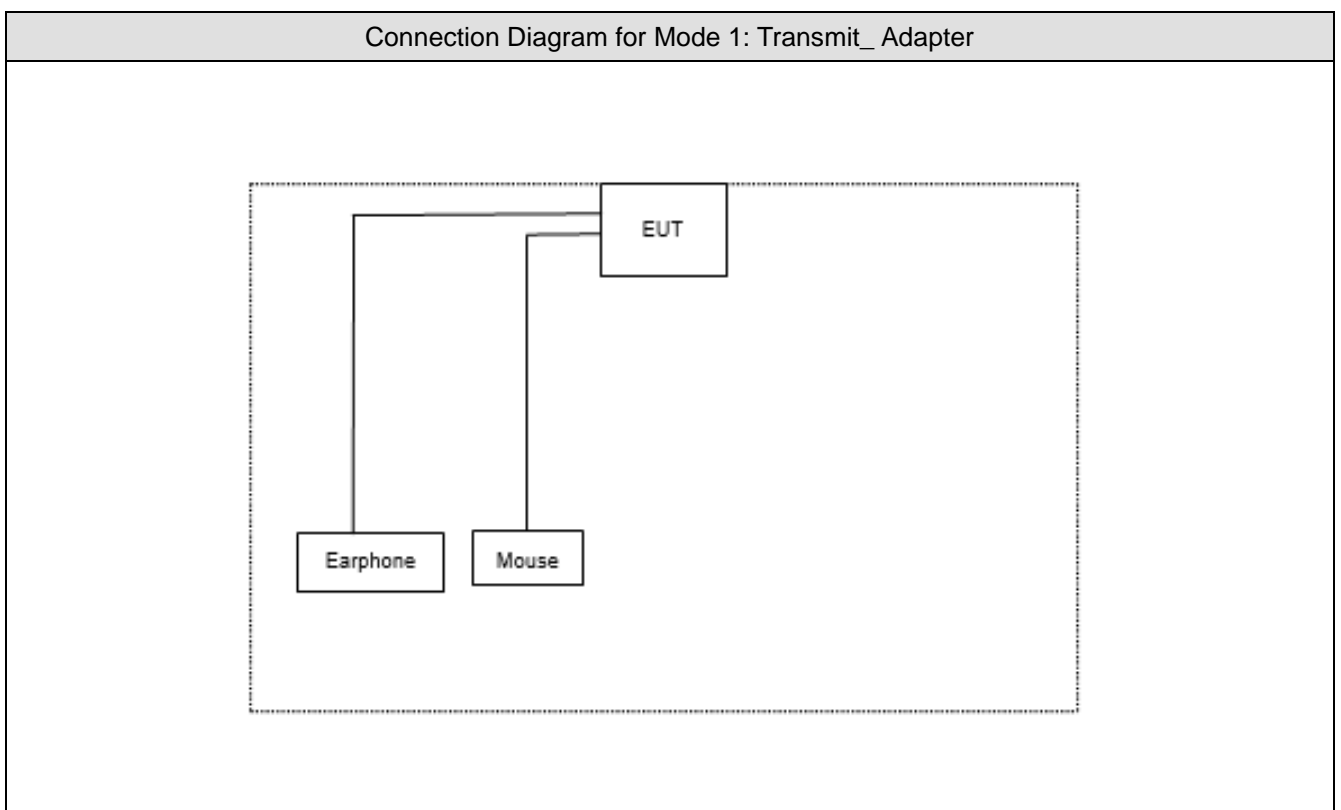
For Mode 1: Transmit_ Adapter

	Product	Manufacturer	Model No.	Serial No.
1	Mouse	HP	M150	B1M150210802968
2	Earphone	ASUS	3.5mm	N/A

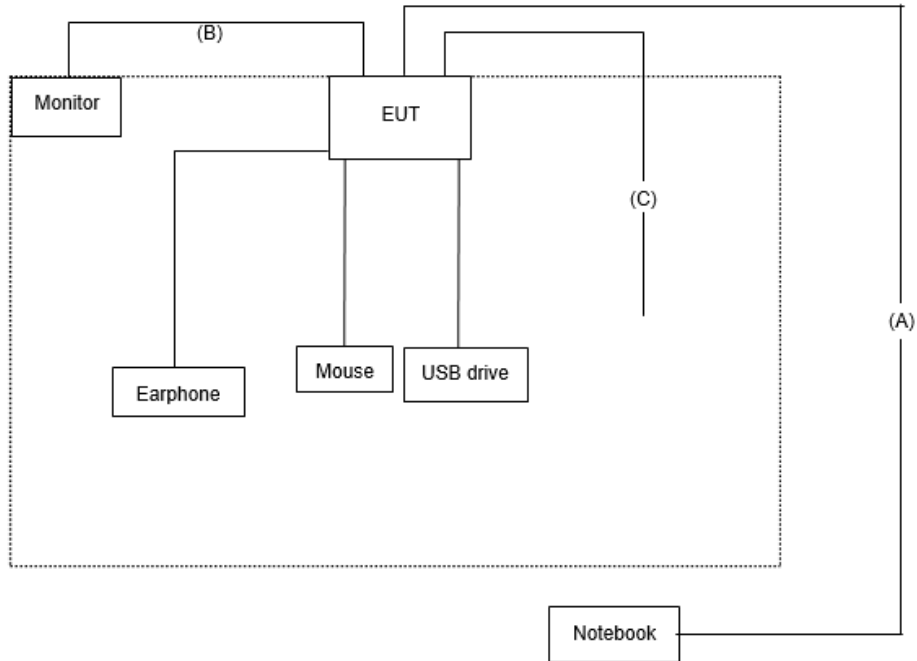
For Mode 2: Transmit_ Docking Station / Mode 3: Transmit_ Extension Cover

	Product	Manufacturer	Model No.	Serial No.
1	Mouse	HP	M150	B1M150210802968
2	Monitor	Philips	223V5LHSB2	QMZ081201587
3	USB drive	Verbatim	OTG Tiny	N/A
4	Earphone	ASUS	3.5mm	N/A
5	Notebook	DELL	Latitude E6320	8208580717

1.5. Configuration of tested System



Connection Diagram for Mode 2: Transmit_ Docking Station / Mode 3: Transmit_ Extension Cover



Signal Cable Type		Signal cable Description
A	Ethernet cable	Non-Shielded, 2m
B	HDMI cable	Shielded, 2m
C	RS232 cable	Shielded, 2m

1.6. EUT Operation of during Test

1	Set the EUT as shown.
2	Execute control command by software "QRCT v3.0.169.0".
3	Configure test mode, test channel and data rate.
4	Let the EUT start sending transmit and receive continuously.
5	Verify that device is working properly

1.7. Test Facility

Ambient conditions in the laboratory:

Items	Test Item	Actually	Tested by	Test Date	Test Site
Temperature (°C)	AC Power Line Conducted Emission	19.4	Ling Chen	2022/02/21	SR2-H
Humidity (%RH)		59			
Temperature (°C)	Maximum Conducted Output Power	24	Clemens Fang	2020/05/11	SR12-H
Humidity (%RH)		62			
Temperature (°C)	Radiated Emission Below 1GHz	22.3	Ling Chen	2022/02/17	CB4-H
Humidity (%RH)		53			
Temperature (°C)	Radiated Emission Above 1GHz	25	Lion Wang	2020/04/21	CB4-H
Humidity (%RH)		51			
Temperature (°C)	Antenna Port Conducted Emission	24	Clemens Fang	2020/05/11	SR12-H
Humidity (%RH)		62			
Temperature (°C)	Radiated Emission Band Edge	24	Lion Wang	2020/04/17	CB4-H
Humidity (%RH)		53			
Temperature (°C)	Number of Hopping Frequency	22 ~ 24	Clemens Fang	2020/02/24 ~ 2020/05/13	SR12-H
Humidity (%RH)		55 ~ 56			
Temperature (°C)	Carrier Frequency Separation	24	Clemens Fang	2020/05/13	SR12-H
Humidity (%RH)		55			
Temperature (°C)	20dB Bandwidth	24	Clemens Fang	2020/05/11	SR12-H
Humidity (%RH)		62			
Temperature (°C)	Dwell Time	24	Clemens Fang	2020/05/13	SR12-H
Humidity (%RH)		55			

Note: Test site information refers to Laboratory Information.

Laboratory Information

USA : **FCC Registration Number: TW3024**
Canada : **CAB identifier : TW3024**

The address and introduction of DEKRA Testing and Certification Co., Ltd. laboratories can be founded in our Web site: <http://www.dekra.com.tw>

If you have any comments, please don't hesitate to contact us. Our test sites as below:

Test Laboratory	DEKRA Testing and Certification Co., Ltd.
Address	1. No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C. 2. No.372, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C.
Phone number	1. +886-3-582-8001 2. +886-3-582-8001
Fax number	1. +886-3-582-8958 2. +886-3-582-8958
Email address	info.tw@dekra.com
Website	http://www.dekra.com.tw
Note: Test site number for address 1 includes SR2-H. Test site number for address 2 includes CB2-H, CB3-H, CB4-H, SR10-H and SR12-H.	

1.8. List of Test Equipment

SR2-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Artificial Mains Network	R&S	ENV4200	848411/010	2021/12/27	2022/12/26
EMI Test Receiver	R&S	ESR3	102608	2021/06/03	2022/06/02
LISN	R&S	ENV216	100092	2021/06/08	2022/06/07
Coaxial Cable (9 m)	Harbour	RG-400	SR2-H	2021/08/15	2022/08/14
DEKRA Testing System	DEKRA	Version 2.0	SR2-H	N/A	N/A

SR12-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
High Speed Peak Power Meter Dual Input	Anritsu	ML2496A	1602004	2019/12/02	2020/12/01
Pulse Power Sensor	Anritsu	MA2411B	1531043	2019/12/02	2020/12/01
Pulse Power Sensor	Anritsu	MA2411B	1531044	2019/12/02	2020/12/01
Power Meter	Keysight	8990B	MY51000248	2019/05/21	2020/05/20
Power Sensor	Keysight	N1923A	MY57240005	2019/05/21	2020/05/20
Spectrum Analyzer	Keysight	N9030B	MY57140404	2019/06/18	2020/06/17
Spectrum Analyzer	Keysight	N9010B	MY57110159	2020/04/15	2021/04/14
Spectrum Analyzer	Agilent	N9010A	US47140172	2019/06/28	2020/06/27
Signal & Spectrum Analyzer	R&S	FSV40	101049	2020/03/30	2021/03/29

CB4-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal Analyzer	R&S	FSVA40	101455	2019/10/21	2020/10/20
Signal Analyzer	R&S	FSVA40	101455	2021/10/22	2022/10/21
Signal & Spectrum Analyzer	R&S	FSV40	101049	2020/03/30	2021/03/29
Signal & Spectrum Analyzer	R&S	FSV40	101049	2021/03/31	2022/03/30
Signal Analyzer	R&S	FSV40	101435	2019/07/08	2020/07/07
Signal Analyzer	R&S	FSVA40	101435	2021/06/04	2022/06/03
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2020/02/21	2021/02/20
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2022/01/07	2023/01/06
Trilog Broadband Antenna	Schwarzbeck	VULB 9168	1209	2021/05/28	2022/05/27
Horn Antenna	Schwarzbeck	BBHA 9120D	639	2019/05/28	2020/05/27
Horn Antenna	Schwarzbeck	BBHA 9170	202	2019/12/27	2020/12/26
Pre-Amplifier	DEKRA	AP-025C	12183122	2019/09/24	2020/09/23
Pre-Amplifier	EMCI	EMC01820I	980364	2021/08/27	2022/08/26
Pre-Amplifier	EMCI	EMC11830I	980366	2019/12/03	2020/12/02
Pre-Amplifier	EMEC	EM01G18GA	060835	2021/07/12	2022/07/11
Pre-Amplifier	DEKRA	AP-400C	201801231	2019/12/03	2020/12/02
Pre-Amplifier	DEKRA	AP-400C	201801231	2021/12/24	2022/12/23
Horn Antenna	Schwarzbeck	BBHA 9120D	01656	2019/10/25	2020/10/24
Band Reject Filter	Micro-Tronics	BRM50702	G192	2020/03/09	2021/03/08
Coaxial Cable(19m)	Suhner	SF102_SF104_ SF106	CB4_2	2019/07/25	2020/07/24
Coaxial Cable(10m)	Suhner	SF102_SF104	CB4-H	2021/08/09	2022/08/08
EMI system	DEKRA	Version 1.0	CB4-H	N/A	N/A
EMI Test Receiver	R&S	ESR7	102260	2021/12/22	2022/12/21
Magnetic Loop Antenna	Teseq	HLA 6121	44287	2021/09/06	2022/09/05
DEKRA Testing System	DEKRA	Version 2.0	CB4-H	N/A	N/A

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

1.9. Measurement Uncertainty

Uncertainties have been calculated according to the DEKRA internal document with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor ($k=2$)).

Test item	Uncertainty
AC Power Line Conducted Emission	± 2.10 dB
Maximum Conducted Output Power	± 1.27 dB
Radiated Emission	± 3.25 dB below 1 GHz ± 3.65 dB above 1 GHz
Antenna Port Conducted Emission	± 1.27 dB
Radiated Emission Band Edge	± 3.65 dB
Number of Hopping Frequency	± 1.27 dB
Carrier Frequency Separation	± 50 Hz
20dB Bandwidth	± 50 Hz
Dwell Time	± 25 msec

1.10. Duty Cycle

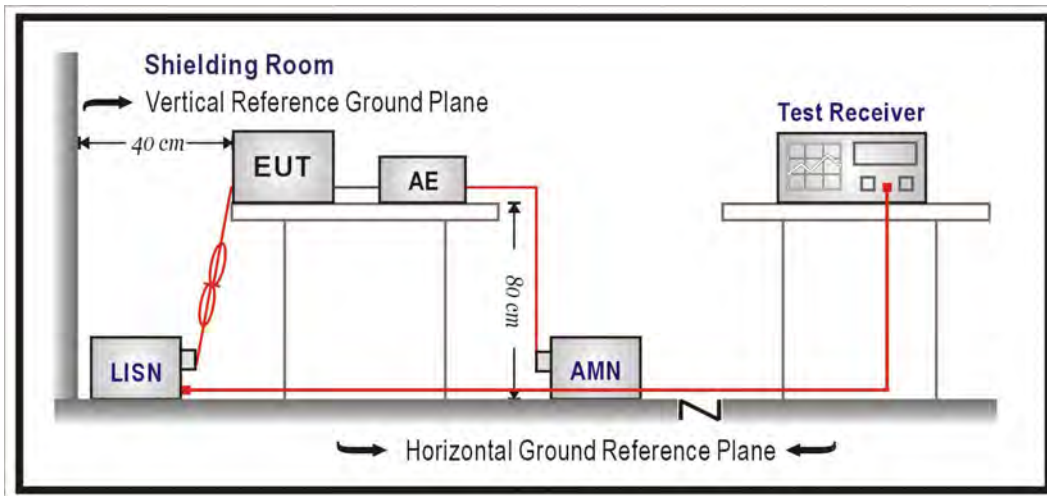
Modulation	On Times (ms)	On+Off Times (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
GFSK	2.884	3.750	76.91	-2.28
8-DPSK	2.884	3.750	76.91	-2.28

Note: If the duty cycle correction factor lower than -20dB, the Max. duty cycle correction factor is -20dB.



2. AC Power Line Conducted Emission

2.1. Test Setup



2.2. 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.

2.3. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm /50uH coupling impedance with 50 ohm termination. (Please refer to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.

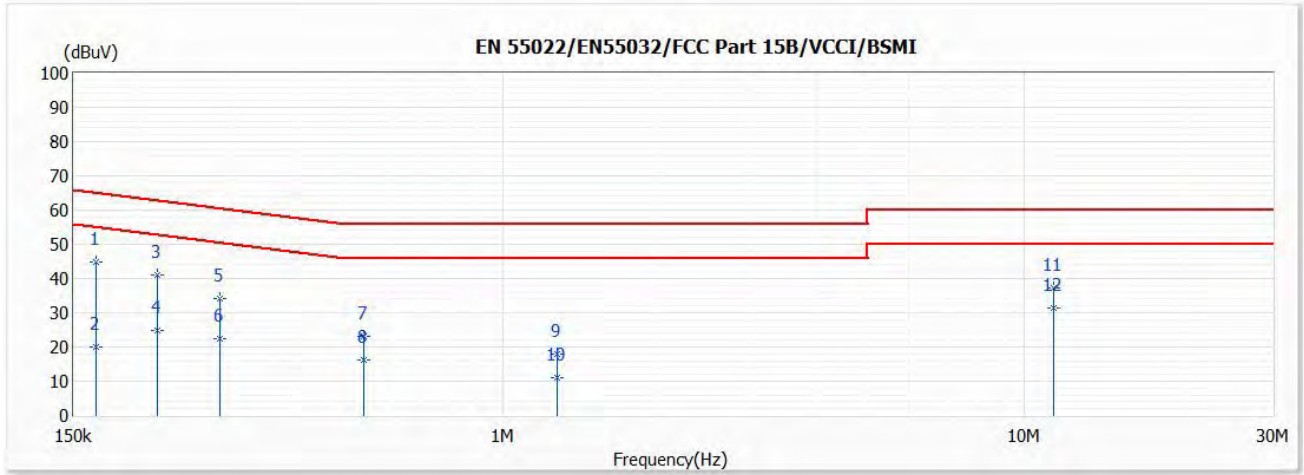
Conducted emissions were investigated over the frequency range from 0.15 MHz to 30 MHz using a receiver bandwidth of 9 kHz.

2.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.207.

2.5. Test Result of AC Power Line Conducted Emission

Test Mode	Mode1: Transmit_Adapter	Phase	Line
Test Condition	8DPSK / 2480 MHz		

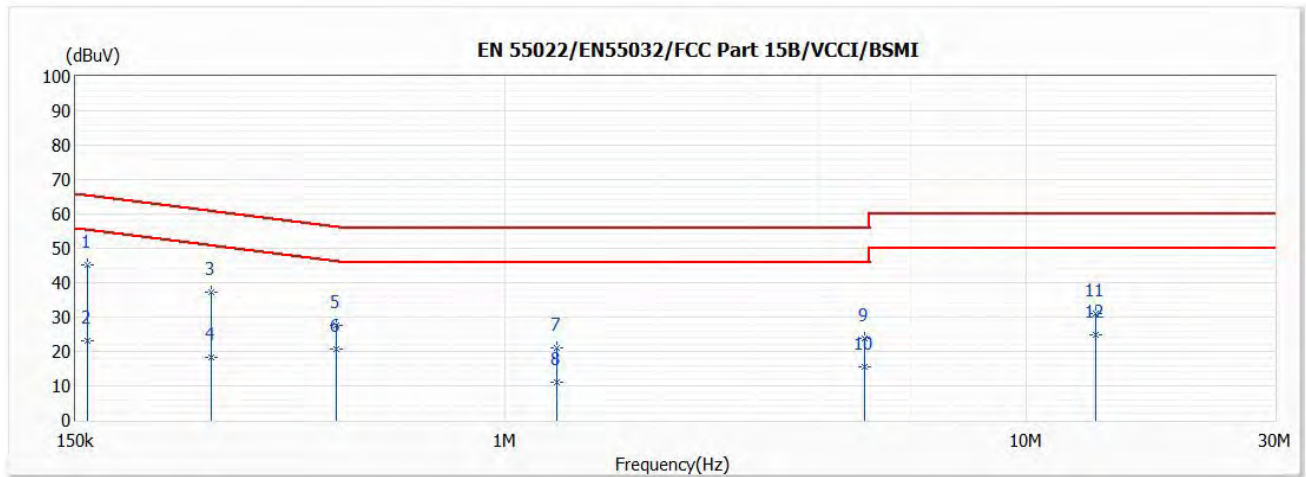


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.165	44.97	65.20	-20.23	35.34	9.63	QP
2	0.165	19.99	55.20	-35.21	10.36	9.63	AV
3	0.217	41.11	62.93	-21.82	31.47	9.64	QP
4	0.217	24.86	52.93	-28.07	15.22	9.64	AV
5	0.286	34.01	60.65	-26.64	24.36	9.65	QP
6	0.286	22.35	50.65	-28.30	12.70	9.65	AV
7	0.540	23.11	56.00	-32.89	13.44	9.67	QP
8	0.540	16.25	46.00	-29.75	6.58	9.67	AV
9	1.268	18.03	56.00	-37.97	8.30	9.73	QP
10	1.268	11.15	46.00	-34.85	1.42	9.73	AV
11	11.360	37.17	60.00	-22.83	27.03	10.14	QP
*12	11.360	31.41	50.00	-18.59	21.27	10.14	AV

Remark:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

Test Mode	Mode1: Transmit_Adapter	Phase	Neutral
Test Condition	8DPSK / 2480 MHz		

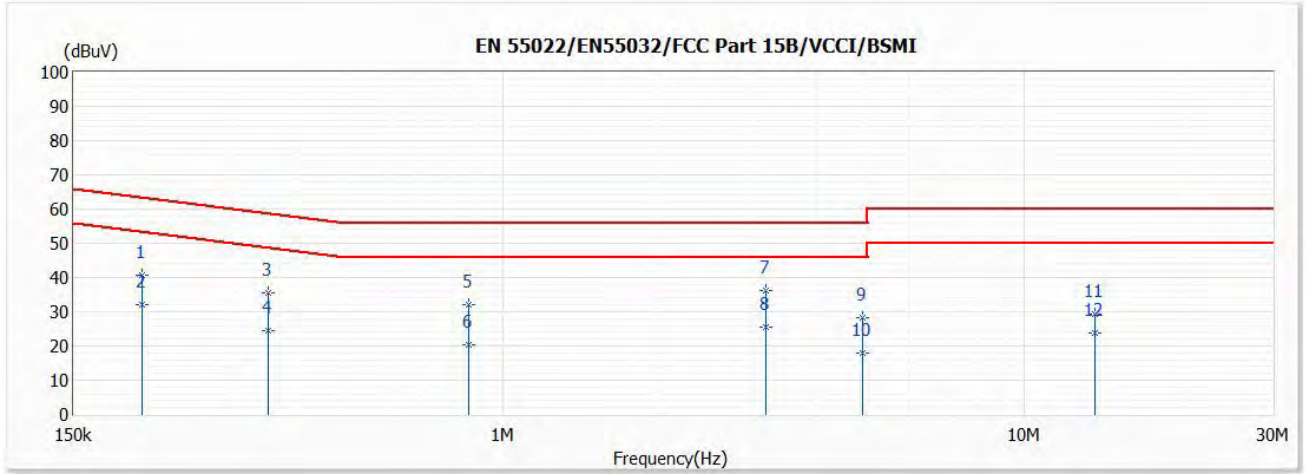


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
*1	0.158	45.30	65.55	-20.25	35.67	9.63	QP
2	0.158	23.22	55.55	-32.33	13.59	9.63	AV
3	0.273	37.24	61.01	-23.77	27.61	9.63	QP
4	0.273	18.31	51.01	-32.70	8.68	9.63	AV
5	0.474	27.49	56.43	-28.94	17.82	9.67	QP
6	0.474	20.53	46.43	-25.90	10.86	9.67	AV
7	1.256	20.87	56.00	-35.13	11.14	9.73	QP
8	1.256	11.12	46.00	-34.88	1.39	9.73	AV
9	4.901	23.76	56.00	-32.24	13.82	9.94	QP
10	4.901	15.53	46.00	-30.47	5.59	9.94	AV
11	13.569	31.14	60.00	-28.86	20.85	10.29	QP
12	13.569	24.76	50.00	-25.24	14.47	10.29	AV

Remark:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

Test Mode	Mode2: Transmit_ Docking Station	Phase	Line
Test Condition	8DPSK / 2480 MHz		

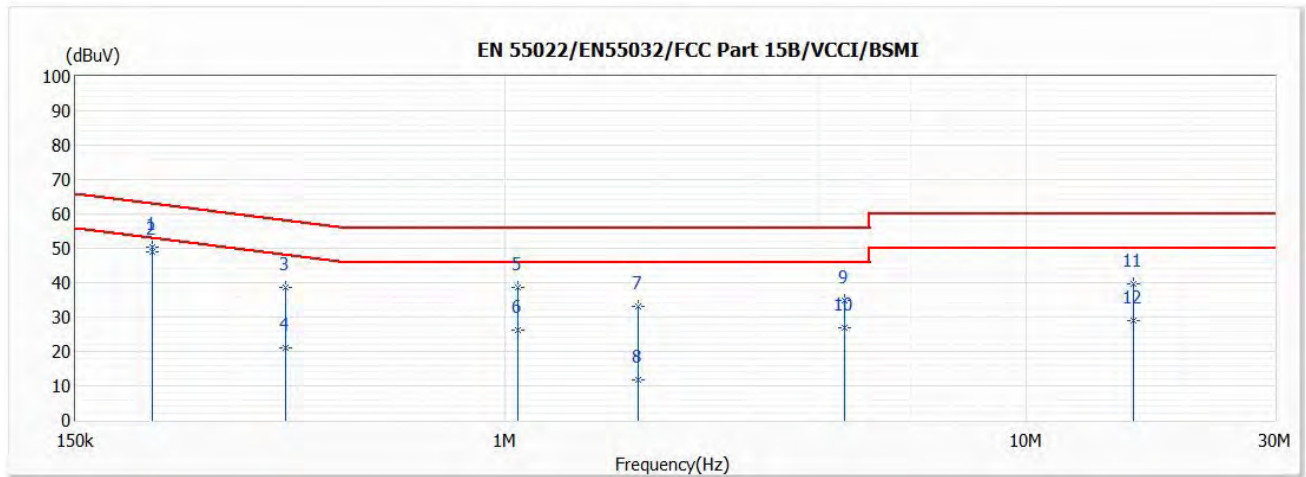


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.203	40.57	63.49	-22.92	30.93	9.64	QP
2	0.203	32.15	53.49	-21.34	22.51	9.64	AV
3	0.354	35.60	58.88	-23.28	25.95	9.65	QP
4	0.354	24.51	48.88	-24.37	14.86	9.65	AV
5	0.859	31.93	56.00	-24.07	22.22	9.71	QP
6	0.859	20.43	46.00	-25.57	10.72	9.71	AV
*7	3.193	36.15	56.00	-19.85	26.31	9.84	QP
8	3.193	25.46	46.00	-20.54	15.62	9.84	AV
9	4.897	28.30	56.00	-27.70	18.37	9.93	QP
10	4.897	17.91	46.00	-28.09	7.98	9.93	AV
11	13.629	29.41	60.00	-30.59	19.21	10.20	QP
12	13.629	23.95	50.00	-26.05	13.75	10.20	AV

Remark:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

Test Mode	Mode2: Transmit_ Docking Station	Phase	Neutral
Test Condition	8DPSK / 2480 MHz		

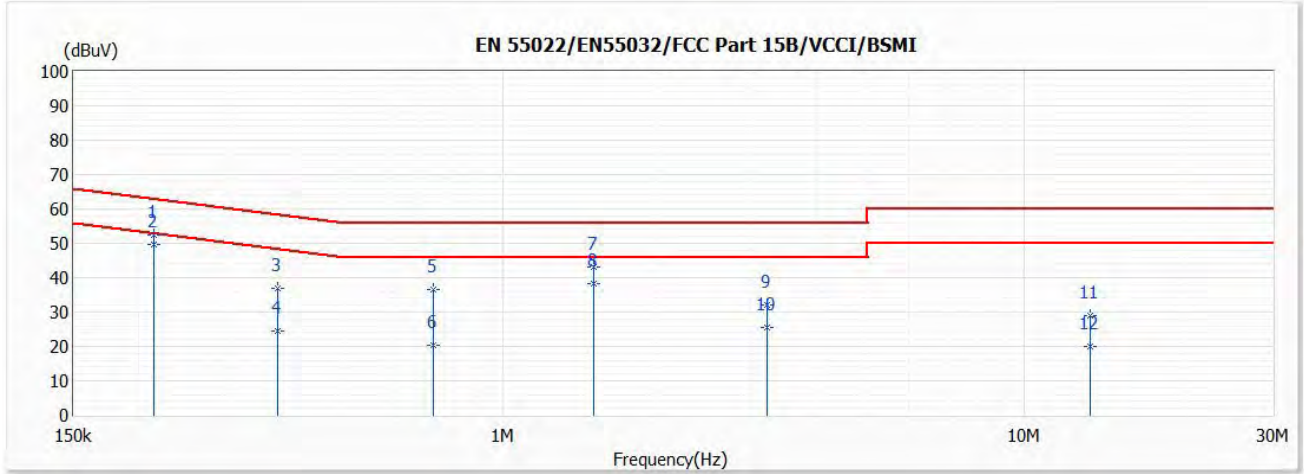


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.211	50.26	63.18	-12.92	40.63	9.63	QP
*2	0.211	48.90	53.18	-4.28	39.27	9.63	AV
3	0.378	38.63	58.32	-19.69	28.97	9.66	QP
4	0.378	21.18	48.32	-27.14	11.52	9.66	AV
5	1.056	38.79	56.00	-17.21	29.07	9.72	QP
6	1.056	26.35	46.00	-19.65	16.63	9.72	AV
7	1.797	32.98	56.00	-23.02	23.21	9.77	QP
8	1.797	11.85	46.00	-34.15	2.08	9.77	AV
9	4.479	34.68	56.00	-21.32	24.77	9.91	QP
10	4.479	26.85	46.00	-19.15	16.94	9.91	AV
11	16.033	39.60	60.00	-20.40	29.21	10.39	QP
12	16.033	28.89	50.00	-21.11	18.50	10.39	AV

Remark:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

Test Mode	Mode3: Transmit_ Extension Cover	Phase	Line
Test Condition	8DPSK / 2480 MHz		

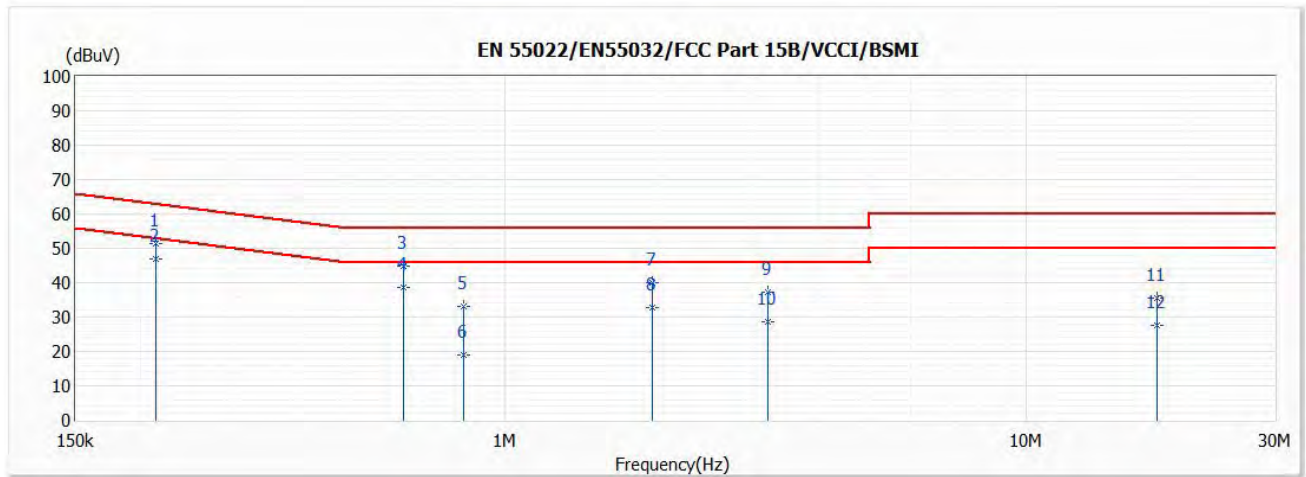


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.213	52.53	63.07	-10.54	42.89	9.64	QP
*2	0.213	49.56	53.07	-3.51	39.92	9.64	AV
3	0.370	37.05	58.51	-21.46	27.39	9.66	QP
4	0.370	24.54	48.51	-23.97	14.88	9.66	AV
5	0.737	36.59	56.00	-19.41	26.89	9.70	QP
6	0.737	20.28	46.00	-25.72	10.58	9.70	AV
7	1.489	43.08	56.00	-12.92	33.34	9.74	QP
8	1.489	38.38	46.00	-7.62	28.64	9.74	AV
9	3.208	32.15	56.00	-23.85	22.31	9.84	QP
10	3.208	25.44	46.00	-20.56	15.60	9.84	AV
11	13.376	28.99	60.00	-31.01	18.79	10.20	QP
12	13.376	20.16	50.00	-29.84	9.96	10.20	AV

Remark:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

Test Mode	Mode3: Transmit_ Extension Cover	Phase	Neutral
Test Condition	8DPSK / 2480 MHz		



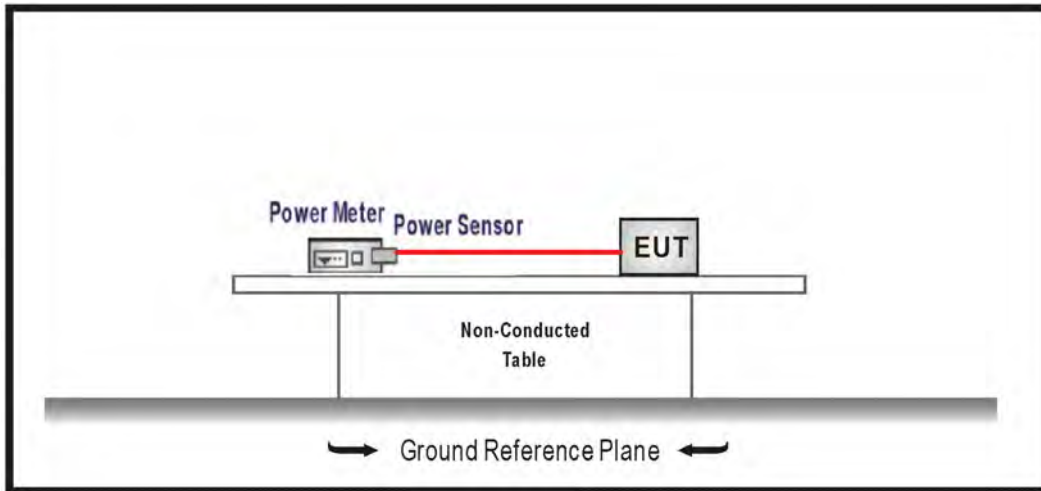
No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.214	51.49	63.05	-11.56	41.86	9.63	QP
*2	0.214	46.80	53.05	-6.25	37.17	9.63	AV
3	0.637	44.82	56.00	-11.18	35.14	9.68	QP
4	0.637	38.63	46.00	-7.37	28.95	9.68	AV
5	0.831	32.99	56.00	-23.01	23.28	9.71	QP
6	0.831	18.89	46.00	-27.11	9.18	9.71	AV
7	1.916	40.15	56.00	-15.85	30.37	9.78	QP
8	1.916	32.73	46.00	-13.27	22.95	9.78	AV
9	3.192	37.18	56.00	-18.82	27.34	9.84	QP
10	3.192	28.50	46.00	-17.50	18.66	9.84	AV
11	17.861	35.50	60.00	-24.50	25.04	10.46	QP
12	17.861	27.70	50.00	-22.30	17.24	10.46	AV

Remark:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

3. Maximum Conducted Output Power

3.1. Test Setup



3.2. Test Limit

For frequency hopping systems operating in the 902 ~ 928 MHz band: 1 Watt for systems employing at least 50 hopping channels; and, 0.25 Watts for systems employing less than 50 hopping channels.

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. For all other frequency hopping systems in the 2400 ~ 2483.5 MHz band: 0.125 watts.

3.3. Test Procedures

The EUT was setup according to ANSI C63.10: 2013 and tested according to FHSS test procedure of FCC KDB 558074 D01 v05r02 for compliance to FCC 47CFR 15.247 requirements.

3.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247.

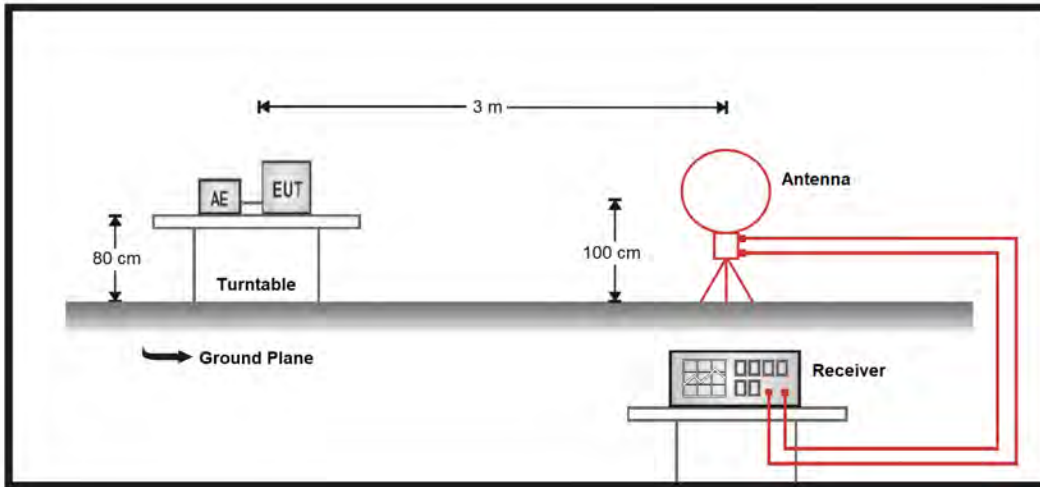
3.5. Test Result of Maximum Conducted Output Power

Modulation	Channel	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
GFSK	00	2402	4.940	≤ 20.97	Pass
	39	2441	5.450	≤ 20.97	Pass
	78	2480	5.610	≤ 20.97	Pass
8-DPSK	00	2402	6.770	≤ 20.97	Pass
	39	2441	7.210	≤ 20.97	Pass
	78	2480	7.250	≤ 20.97	Pass

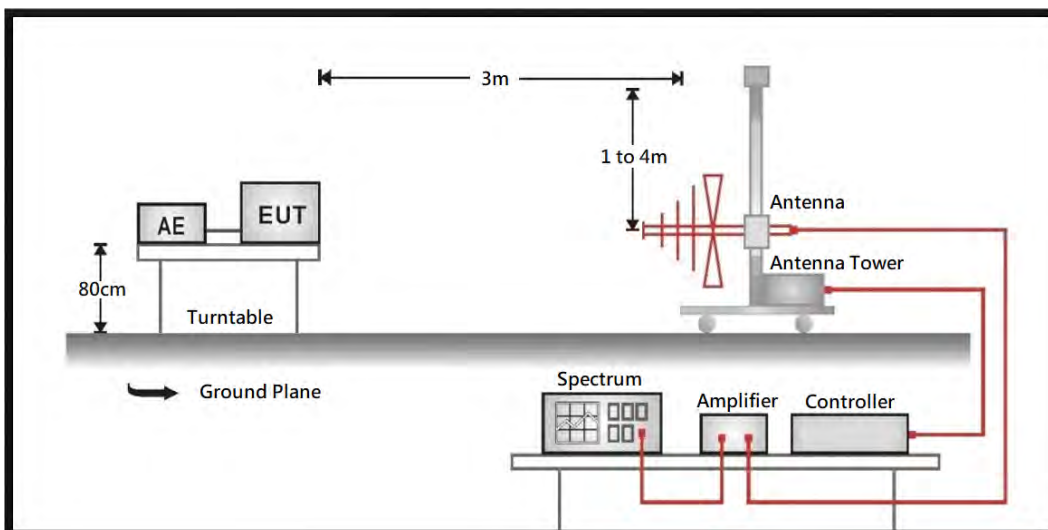
4. Radiated Emission

4.1. Test Setup

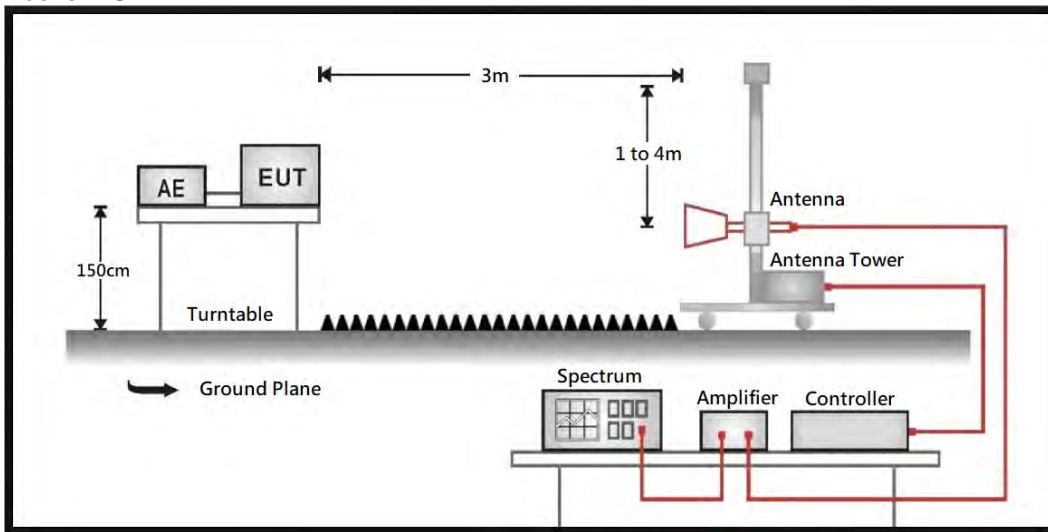
9 kHz ~ 30 MHz



30 MHz ~ 1 GHz



Above 1 GHz



4.2. Test Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20 dB below the level of the fundamental or to the general radiated emission limit in paragraph 15.209, whichever is the lesser attenuation.

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

4.3. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to FHSS test procedure of FCC KDB 558074 D01 v05r02 for compliance to FCC 47CFR 15.247 requirements.

The EUT and its simulators are placed on a turn table which is 0.8 or 1.5 meter 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: 2013 on radiated measurement.

On any frequency or frequencies from 9kHz(include The 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.

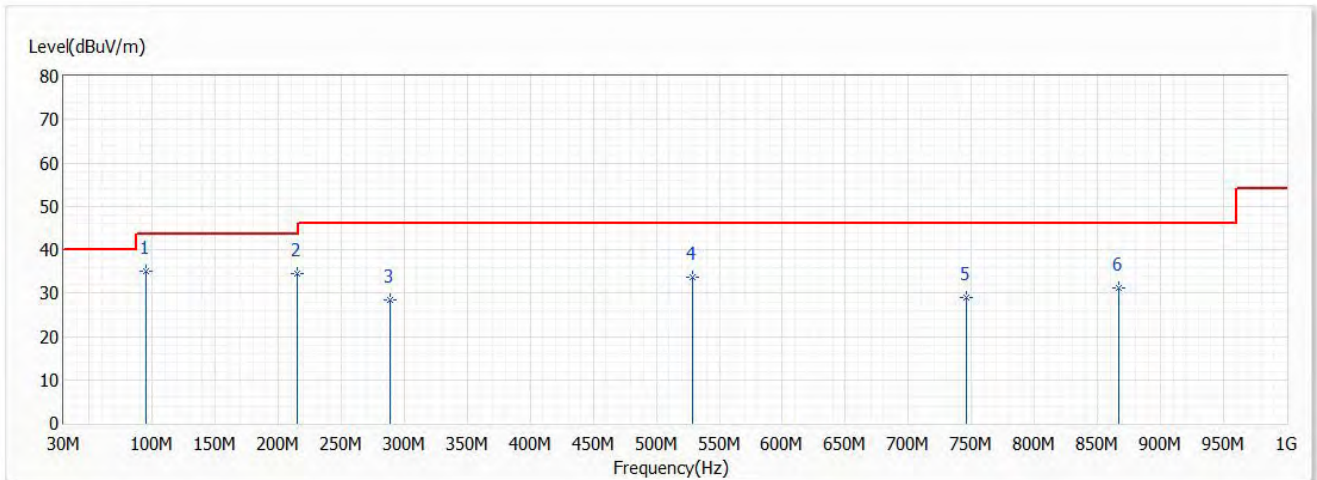
The bandwidth below 1 GHz setting on the field strength meter is 120 kHz and above 1 GHz is 1MHz.

4.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247.

4.5. Test Result of Radiated Emissions (30 MHz ~ 1 GHz)

Test Mode	Mode 1: Transmit_Adapter	Polarity	Horizontal
Test Condition	8DPSK / 2480 MHz		

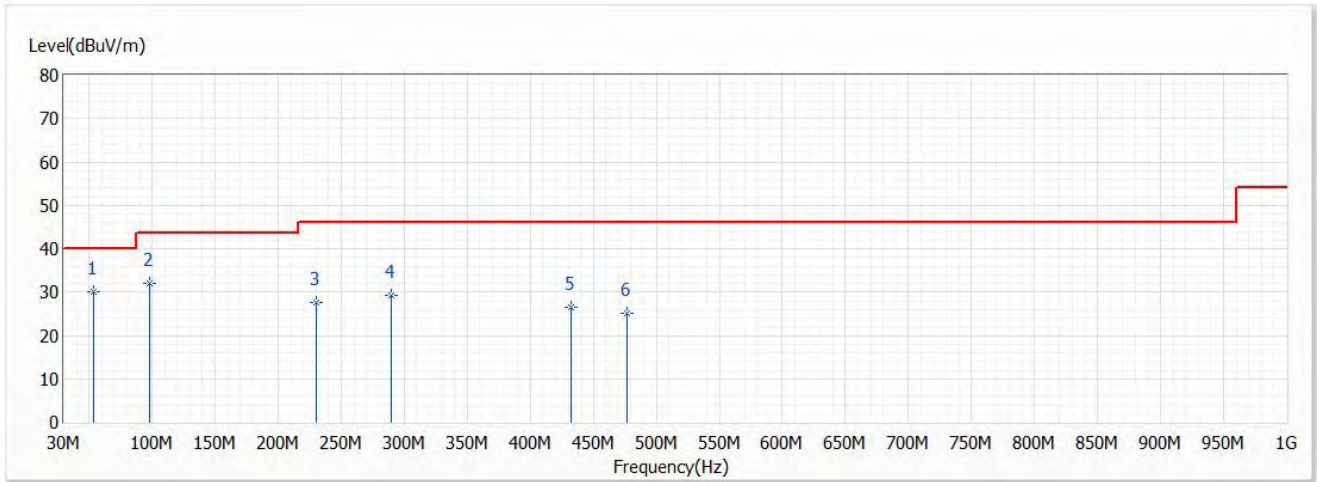


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	94.869	34.98	43.50	-8.52	43.60	-8.62	QP
2	214.785	34.58	43.50	-8.92	41.07	-6.49	QP
3	288.869	28.28	46.00	-17.72	30.81	-2.53	QP
4	528.338	33.67	46.00	-12.33	30.47	3.20	QP
5	746.224	28.95	46.00	-17.05	21.40	7.55	QP
6	866.625	31.07	46.00	-14.93	22.34	8.73	QP

Note:

1. All reading levels is Quasi-Peak value.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

Test Mode	Mode 1: Transmit_Adapter	Polarity	Vertical
Test Condition	8DPSK / 2480 MHz		

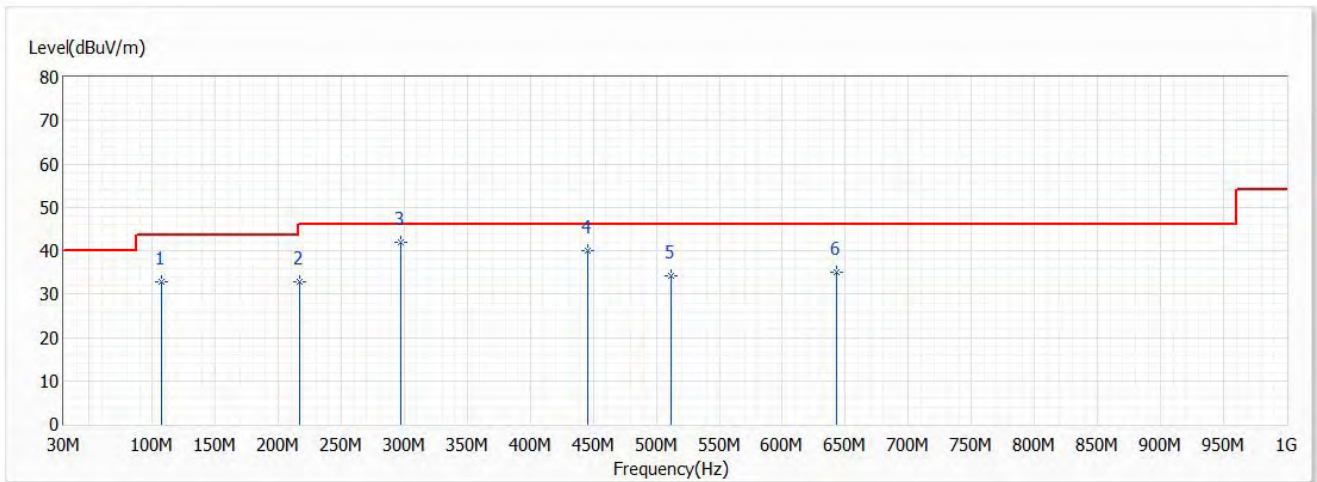


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	53.644	29.98	40.00	-10.02	32.76	-2.78	QP
2	98.385	32.11	43.50	-11.39	40.19	-8.08	QP
3	229.820	27.47	46.00	-18.53	33.02	-5.55	QP
4	289.475	29.37	46.00	-16.63	31.88	-2.51	QP
5	432.308	26.37	46.00	-19.63	25.21	1.16	QP
6	476.685	25.21	46.00	-20.79	23.00	2.21	QP

Note:

1. All reading levels is Quasi-Peak value.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

Test Mode	Mode 2: Transmit_ Docking Station	Polarity	Horizontal
Test Condition	8DPSK / 2480 MHz		

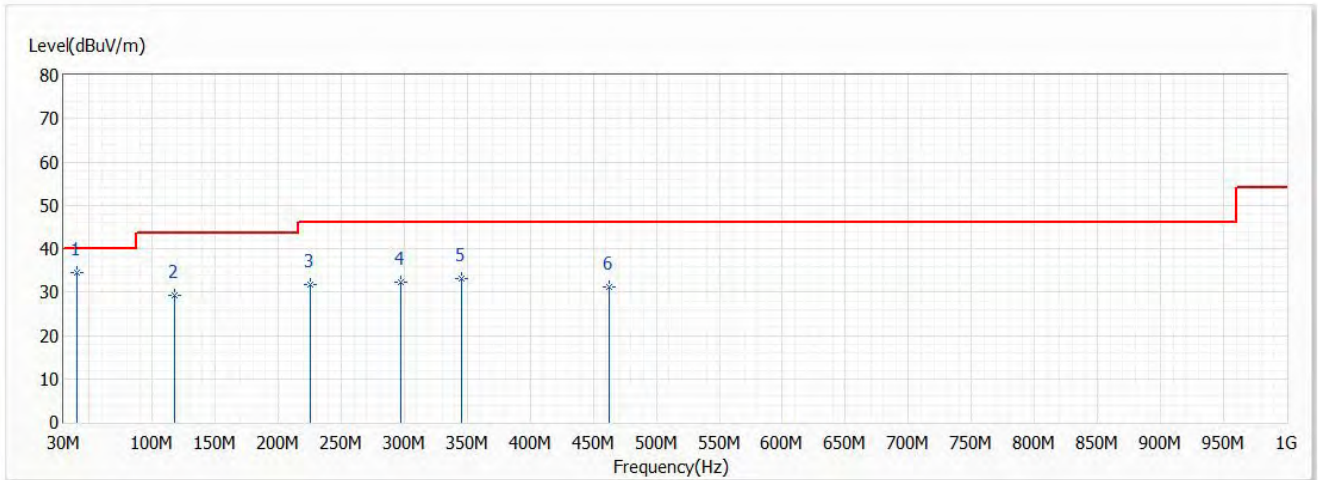


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	107.721	32.83	43.50	-10.67	39.39	-6.56	QP
2	217.453	32.78	46.00	-13.22	39.20	-6.42	QP
* 3	297.114	41.83	46.00	-4.17	44.31	-2.48	QP
4	445.524	40.01	46.00	-5.99	38.48	1.53	QP
5	511.484	34.32	46.00	-11.68	31.38	2.94	QP
6	643.404	35.01	46.00	-10.99	29.13	5.88	QP

Note:

1. All reading levels is Quasi-Peak value.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

Test Mode	Mode 2: Transmit_ Docking Station	Polarity	Vertical
Test Condition	8DPSK / 2480 MHz		

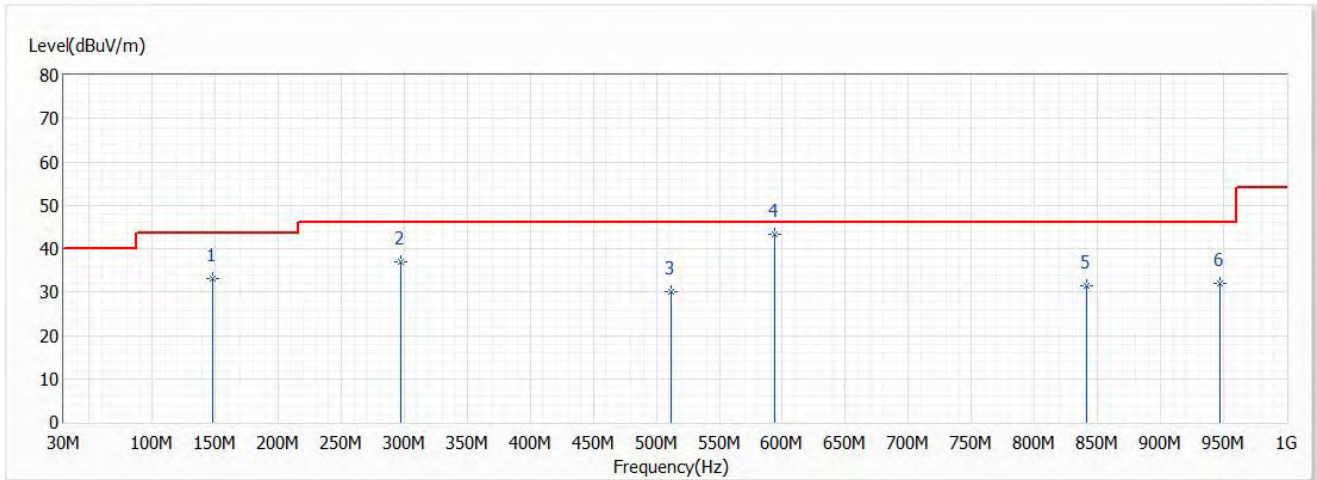


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	40.428	34.44	40.00	-5.56	37.15	-2.71	QP
2	117.421	29.31	43.50	-14.19	34.73	-5.42	QP
3	225.213	31.83	46.00	-14.17	37.94	-6.11	QP
4	296.871	32.41	46.00	-13.59	34.89	-2.48	QP
5	345.008	33.10	46.00	-12.90	34.48	-1.38	QP
6	462.135	31.28	46.00	-14.72	29.31	1.97	QP

Note:

1. All reading levels is Quasi-Peak value.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Horizontal
Test Condition	8DPSK / 2480 MHz		

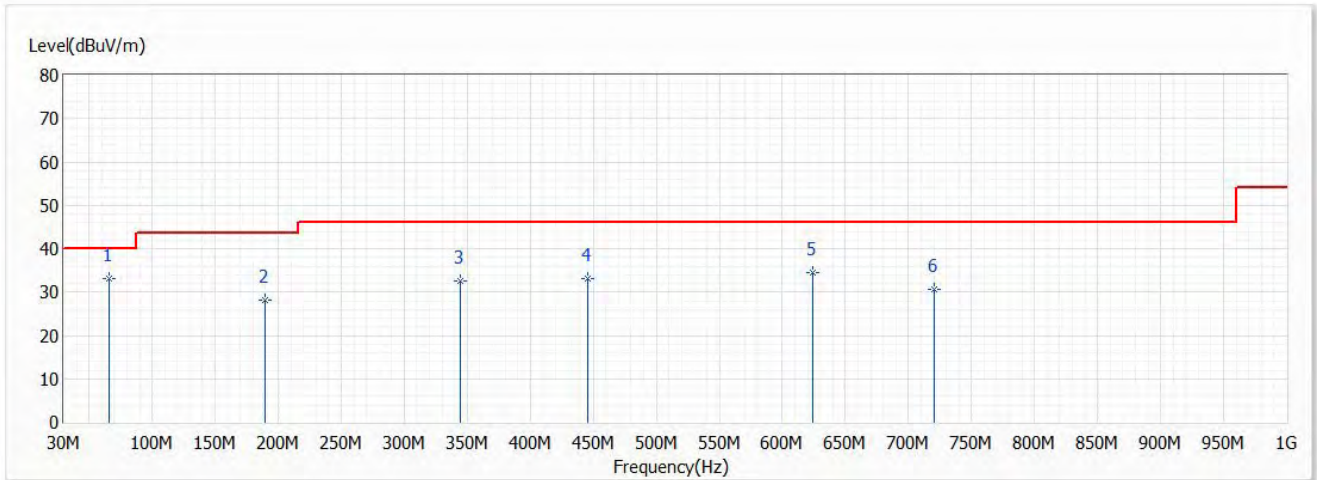


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	148.461	33.11	43.50	-10.39	36.33	-3.22	QP
2	296.993	36.90	46.00	-9.10	39.38	-2.48	QP
3	511.484	30.00	46.00	-16.00	27.06	2.94	QP
* 4	594.055	43.22	46.00	-2.78	38.33	4.89	QP
5	841.526	31.47	46.00	-14.53	23.02	8.45	QP
6	947.499	32.03	46.00	-13.97	22.12	9.91	QP

Note:

1. All reading levels is Quasi-Peak value.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Vertical
Test Condition	8DPSK / 2480 MHz		



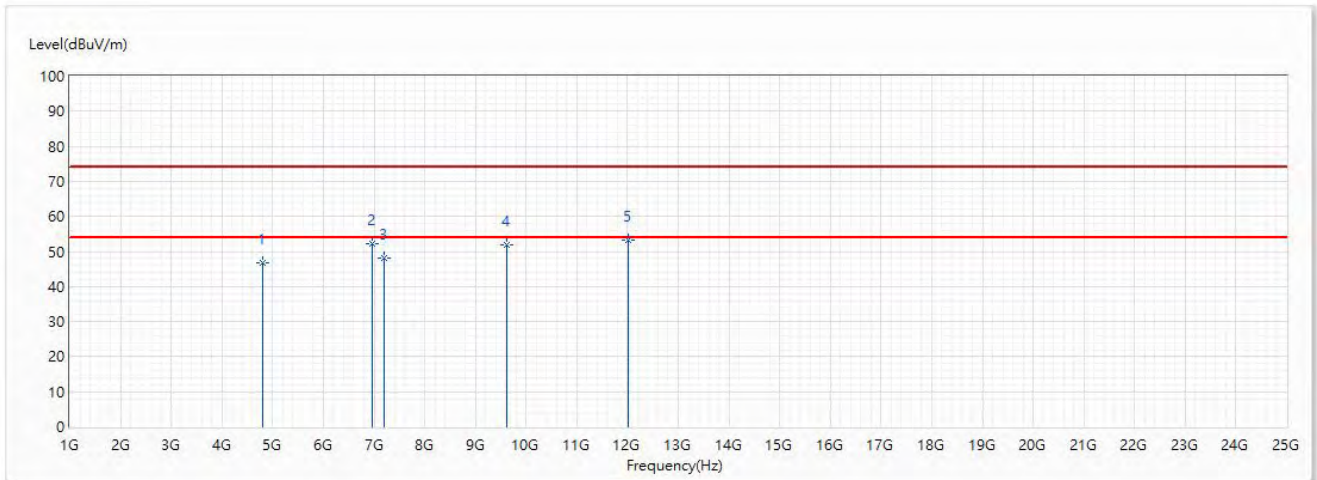
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	66.011	33.23	40.00	-6.77	37.37	-4.14	QP
2	189.808	28.18	43.50	-15.32	33.73	-5.55	QP
3	344.886	32.51	46.00	-13.49	33.89	-1.38	QP
4	445.524	33.14	46.00	-12.86	31.61	1.53	QP
5	624.246	34.60	46.00	-11.40	29.26	5.34	QP
6	720.398	30.75	46.00	-15.25	23.89	6.86	QP

Note:

1. All reading levels is Quasi-Peak value.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

4.6. Test Result of Radiated Emissions (1 GHz ~ 10th Harmonic)

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Horizontal
Test Condition	GFSK / 2402 MHz		

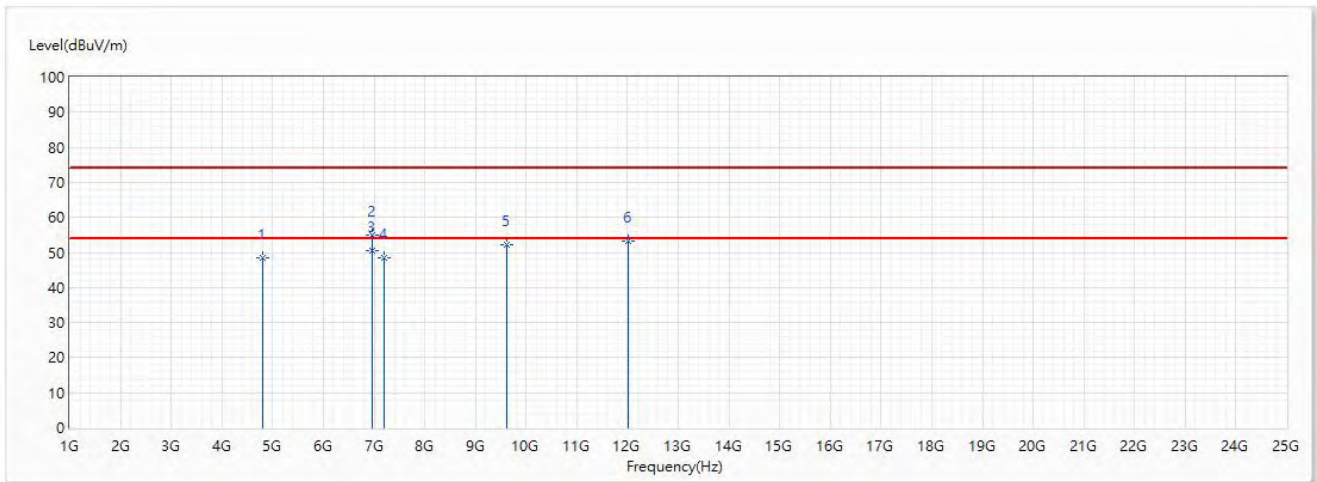


No	Frequency (MHz)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Reading Level (dBUV)	Correct Factor (dB/m)	Detector Type
1	4804	46.65	74.00	-27.35	48.26	-1.61	PK
2	6960	52.32	74.00	-21.68	47.13	5.19	PK
3	7206	48.15	74.00	-25.85	42.08	6.07	PK
4	9608	52.02	74.00	-21.98	40.70	11.32	PK
* 5	12010	53.36	74.00	-20.64	39.78	13.58	PK

Note:

- 1.All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
- 3.Emission Level = Reading Level + Correct Factor.
- 4.The average measurement was not performed when the peak measured data under the limit of average detection.
- 5.The emission above 13GHz were not included is because their levels are lower than 20dB form limit.

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Vertical
Test Condition	GPSK / 2402 MHz		

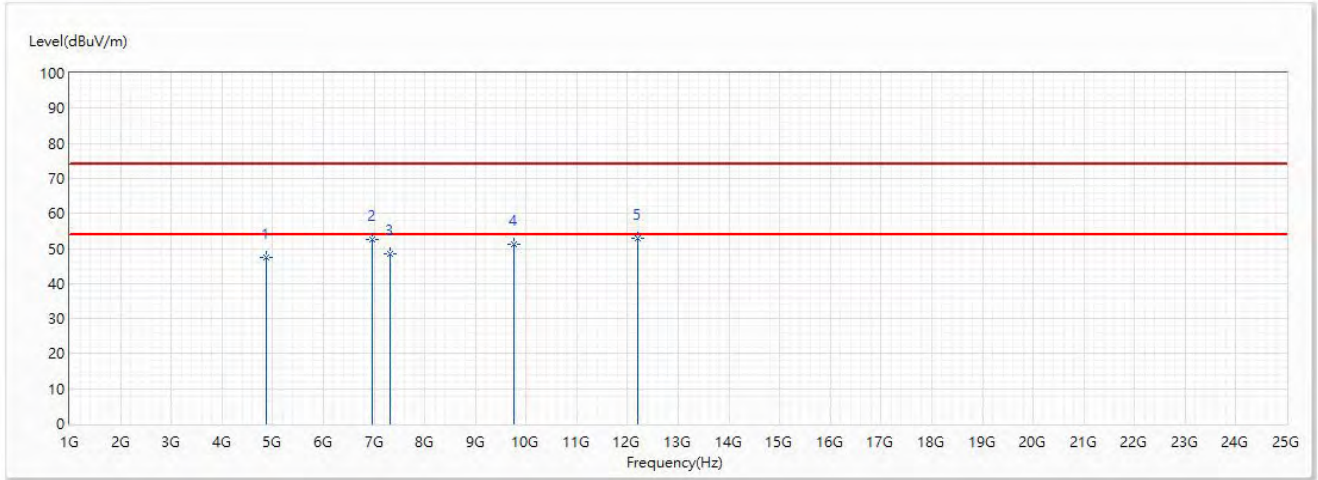


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4804	48.45	74.00	-25.55	50.06	-1.61	PK
2	6960	55.03	74.00	-18.97	49.84	5.19	PK
* 3	6960	50.53	54.00	-3.47	45.34	5.19	AV
4	7206	48.57	74.00	-25.43	42.50	6.07	PK
5	9608	52.31	74.00	-21.69	40.99	11.32	PK
6	12010	53.24	74.00	-20.76	39.66	13.58	PK

Note:

- 1.All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
- 3.Emission Level = Reading Level + Correct Factor.
- 4.The average measurement was not performed when the peak measured data under the limit of average detection.
- 5.The emission above 13GHz were not included is because their levels are lower than 20dB form limit.

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Horizontal
Test Condition	GPSK / 2441 MHz		

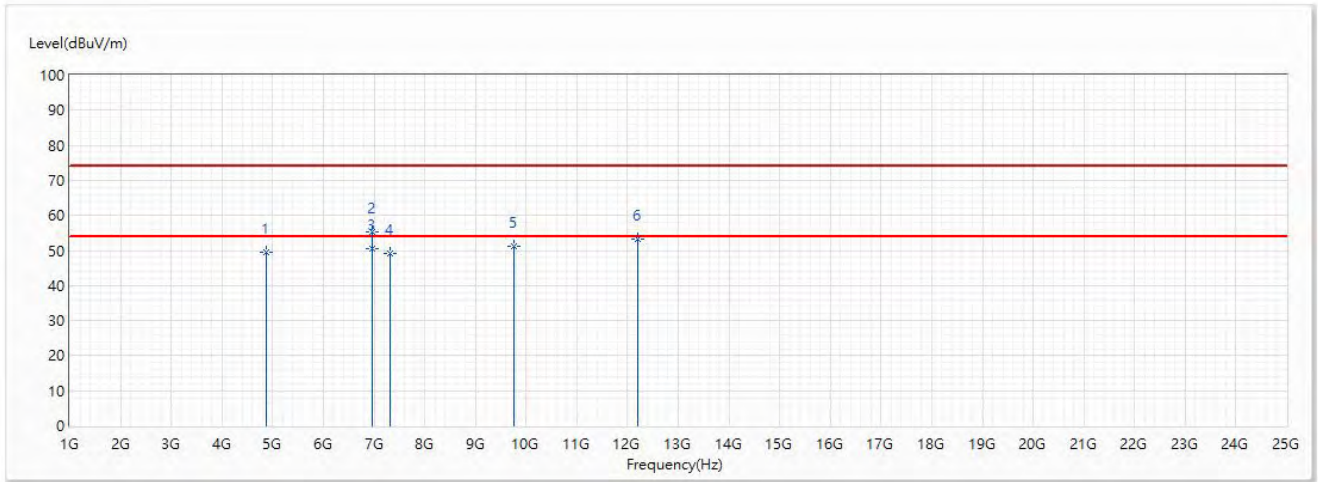


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4882	47.46	74.00	-26.54	48.75	-1.29	PK
2	6960	52.43	74.00	-21.57	47.24	5.19	PK
3	7323	48.49	74.00	-25.51	42.04	6.45	PK
4	9764	51.35	74.00	-22.65	39.85	11.50	PK
* 5	12205	52.97	74.00	-21.03	39.72	13.25	PK

Note:

- 1.All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
- 3.Emission Level = Reading Level + Correct Factor.
- 4.The average measurement was not performed when the peak measured data under the limit of average detection.
- 5.The emission above 13GHz were not included is because their levels are lower than 20dB form limit.

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Vertical
Test Condition	GPSK / 2441 MHz		

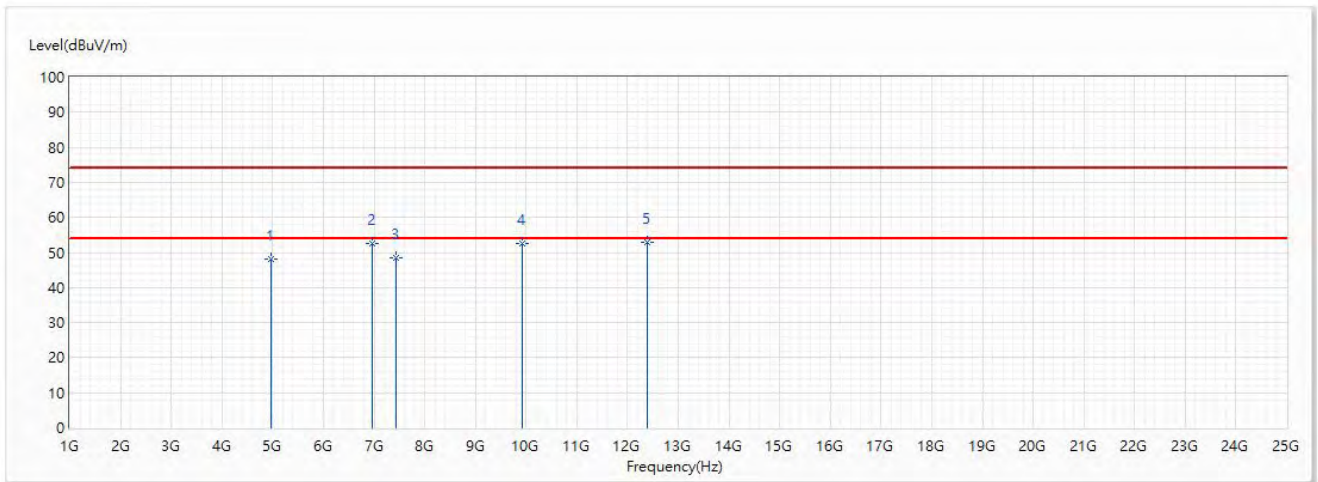


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4882	49.61	74.00	-24.39	50.90	-1.29	PK
2	6960	55.21	74.00	-18.79	50.02	5.19	PK
* 3	6960	50.61	54.00	-3.39	45.42	5.19	AV
4	7323	49.17	74.00	-24.83	42.72	6.45	PK
5	9764	51.33	74.00	-22.67	39.83	11.50	PK
6	12205	53.31	74.00	-20.69	40.06	13.25	PK

Note:

- 1.All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
- 3.Emission Level = Reading Level + Correct Factor.
- 4.The average measurement was not performed when the peak measured data under the limit of average detection.
- 5.The emission above 13GHz were not included is because their levels are lower than 20dB form limit.

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Horizontal
Test Condition	GPSK / 2480 MHz		

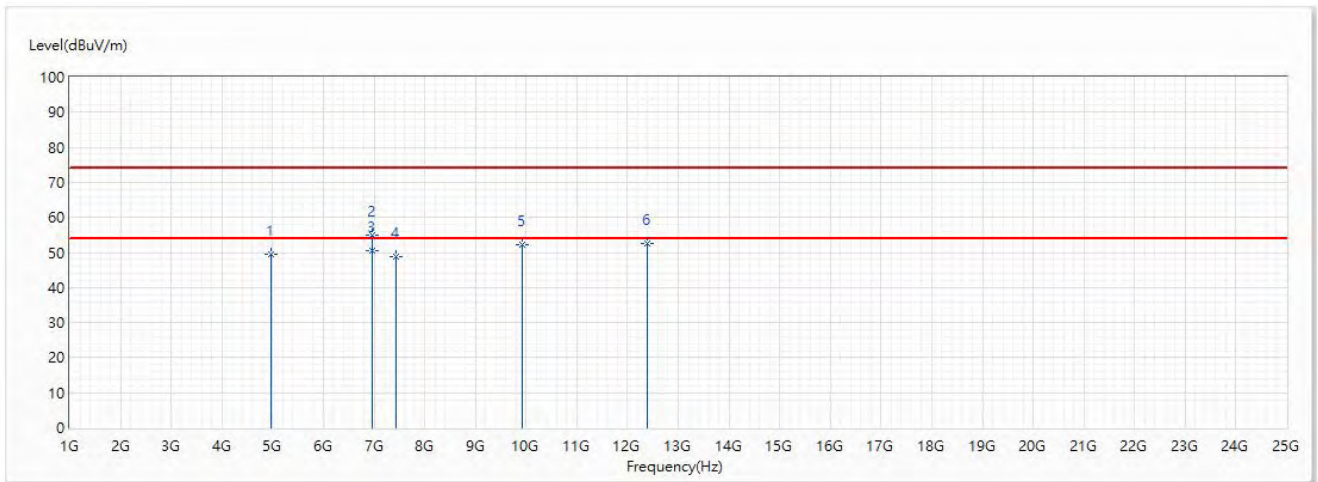


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4960	48.09	74.00	-25.91	49.07	-0.98	PK
2	6960	52.41	74.00	-21.59	47.22	5.19	PK
3	7440	48.43	74.00	-25.57	41.59	6.84	PK
4	9920	52.68	74.00	-21.32	41.08	11.60	PK
* 5	12400	52.90	74.00	-21.10	40.05	12.85	PK

Note:

- 1.All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
- 3.Emission Level = Reading Level + Correct Factor.
- 4.The average measurement was not performed when the peak measured data under the limit of average detection.
- 5.The emission above 13GHz were not included is because their levels are lower than 20dB form limit.

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Vertical
Test Condition	GPSK / 2480 MHz		

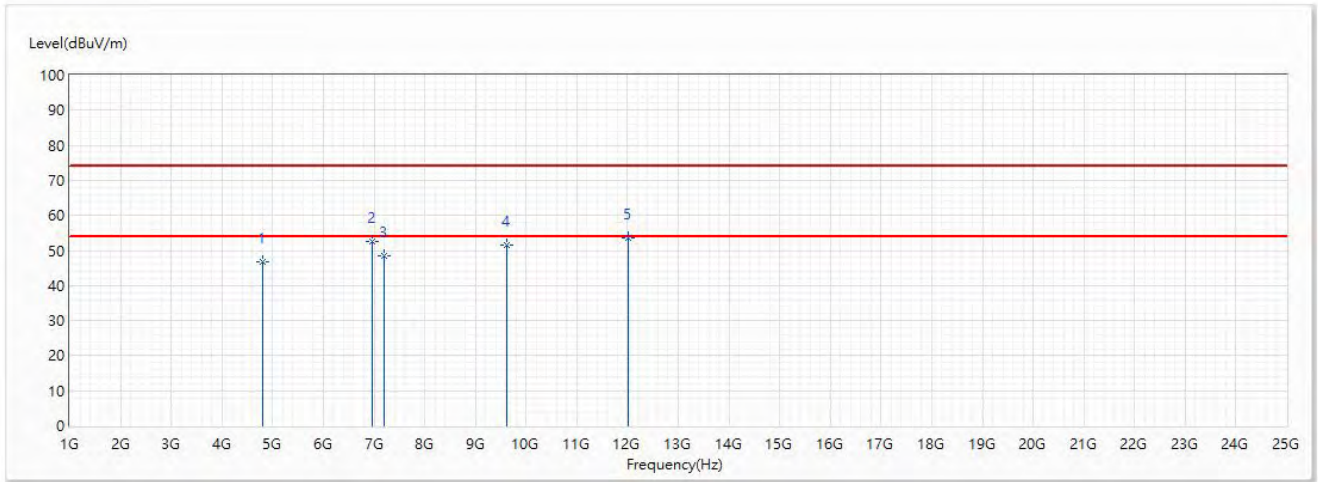


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4960	49.35	74.00	-24.65	50.33	-0.98	PK
2	6960	55.05	74.00	-18.95	49.86	5.19	PK
* 3	6960	50.62	54.00	-3.38	45.43	5.19	AV
4	7440	48.82	74.00	-25.18	41.98	6.84	PK
5	9920	52.08	74.00	-21.92	40.48	11.60	PK
6	12400	52.39	74.00	-21.61	39.54	12.85	PK

Note:

- 1.All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
- 3.Emission Level = Reading Level + Correct Factor.
- 4.The average measurement was not performed when the peak measured data under the limit of average detection.
- 5.The emission above 13GHz were not included is because their levels are lower than 20dB form limit.

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Horizontal
Test Condition	8DPSK / 2402 MHz		

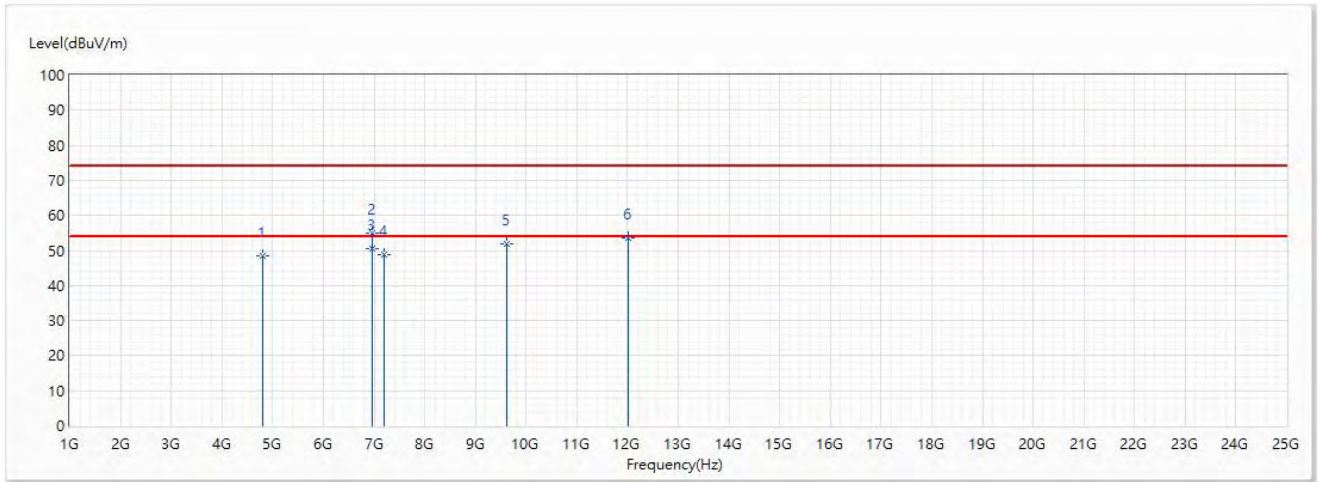


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4804	46.79	74.00	-27.21	48.40	-1.61	PK
2	6960	52.39	74.00	-21.61	47.20	5.19	PK
3	7206	48.45	74.00	-25.55	42.38	6.07	PK
4	9608	51.70	74.00	-22.30	40.38	11.32	PK
* 5	12010	53.58	74.00	-20.42	40.00	13.58	PK

Note:

- 1.All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
- 3.Emission Level = Reading Level + Correct Factor.
- 4.The average measurement was not performed when the peak measured data under the limit of average detection.
- 5.The emission above 13GHz were not included is because their levels are lower than 20dB form limit.

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Vertical
Test Condition	8DPSK / 2402 MHz		

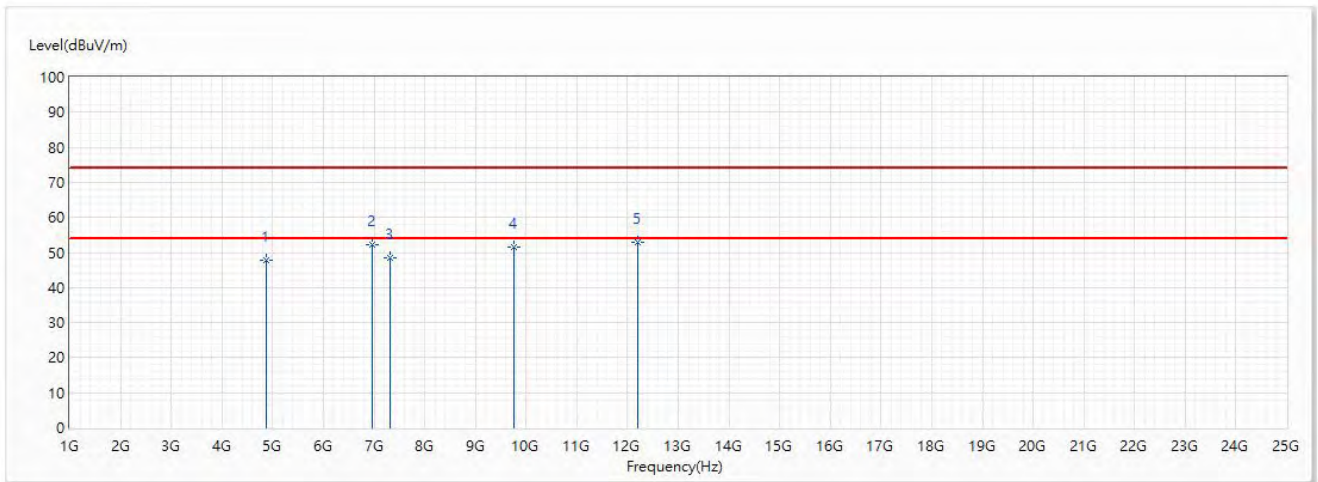


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4804	48.41	74.00	-25.59	50.02	-1.61	PK
2	6960	55.02	74.00	-18.98	49.83	5.19	PK
* 3	6960	50.66	54.00	-3.34	45.47	5.19	AV
4	7206	48.84	74.00	-25.16	42.77	6.07	PK
5	9608	51.78	74.00	-22.22	40.46	11.32	PK
6	12010	53.57	74.00	-20.43	39.99	13.58	PK

Note:

- 1.All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
- 3.Emission Level = Reading Level + Correct Factor.
- 4.The average measurement was not performed when the peak measured data under the limit of average detection.
- 5.The emission above 13GHz were not included is because their levels are lower than 20dB form limit.

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Horizontal
Test Condition	8DPSK / 2441 MHz		

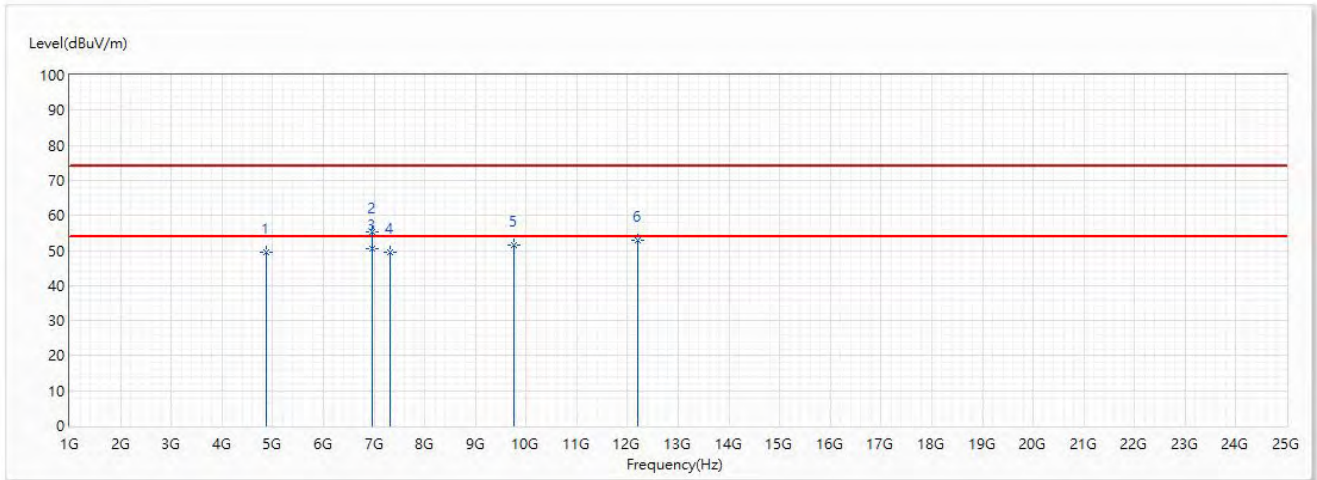


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4882	47.73	74.00	-26.27	49.02	-1.29	PK
2	6960	52.33	74.00	-21.67	47.14	5.19	PK
3	7323	48.61	74.00	-25.39	42.16	6.45	PK
4	9764	51.51	74.00	-22.49	40.01	11.50	PK
* 5	12205	52.88	74.00	-21.12	39.63	13.25	PK

Note:

- 1.All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
- 3.Emission Level = Reading Level + Correct Factor.
- 4.The average measurement was not performed when the peak measured data under the limit of average detection.
- 5.The emission above 13GHz were not included is because their levels are lower than 20dB form limit.

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Vertical
Test Condition	8DPSK / 2441 MHz		

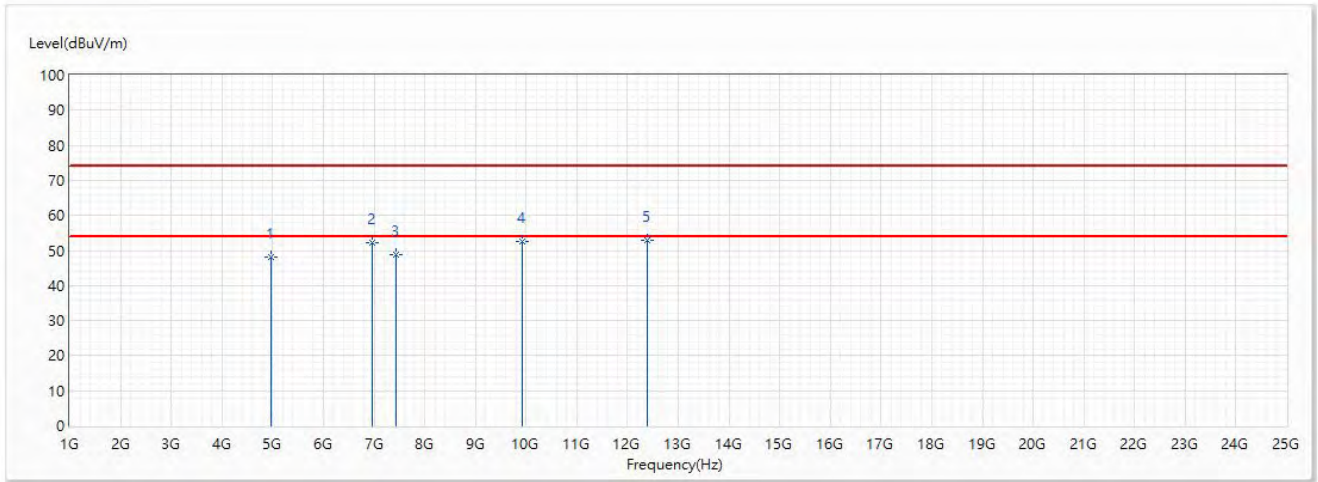


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4882	49.60	74.00	-24.40	50.89	-1.29	PK
2	6960	55.17	74.00	-18.83	49.98	5.19	PK
* 3	6960	50.55	54.00	-3.45	45.36	5.19	AV
4	7323	49.42	74.00	-24.58	42.97	6.45	PK
5	9764	51.44	74.00	-22.56	39.94	11.50	PK
6	12205	53.03	74.00	-20.97	39.78	13.25	PK

Note:

- 1.All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
- 3.Emission Level = Reading Level + Correct Factor.
- 4.The average measurement was not performed when the peak measured data under the limit of average detection.
- 5.The emission above 13GHz were not included is because their levels are lower than 20dB form limit.

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Horizontal
Test Condition	8DPSK / 2480 MHz		

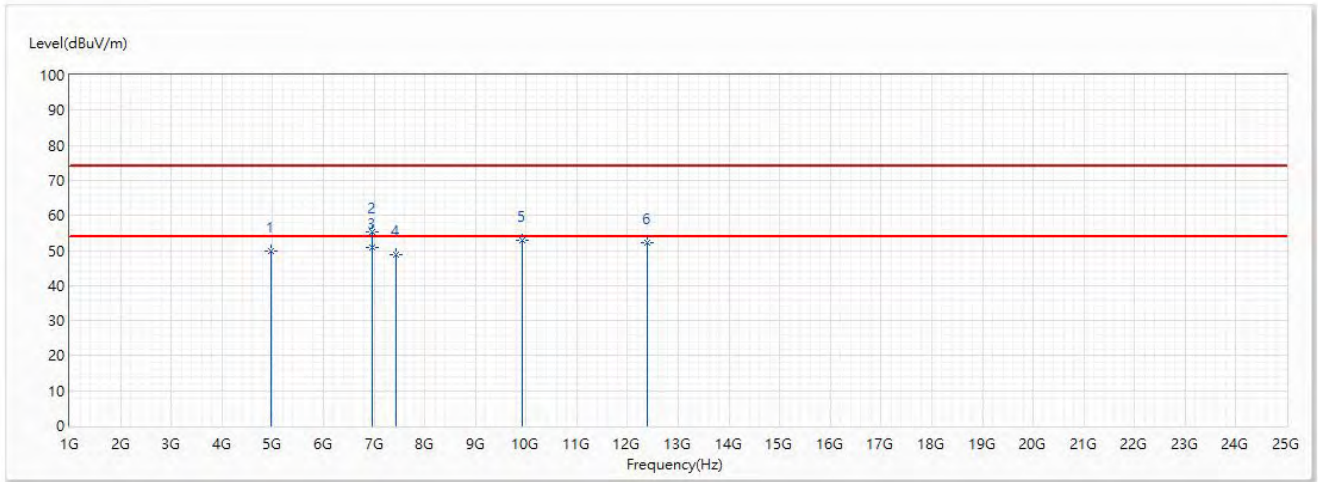


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4960	48.06	74.00	-25.94	49.04	-0.98	PK
2	6960	52.23	74.00	-21.77	47.04	5.19	PK
3	7440	48.76	74.00	-25.24	41.92	6.84	PK
4	9920	52.39	74.00	-21.61	40.79	11.60	PK
* 5	12400	52.74	74.00	-21.26	39.89	12.85	PK

Note:

- 1.All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
- 3.Emission Level = Reading Level + Correct Factor.
- 4.The average measurement was not performed when the peak measured data under the limit of average detection.
- 5.The emission above 13GHz were not included is because their levels are lower than 20dB form limit.

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Vertical
Test Condition	8DPSK / 2480 MHz		



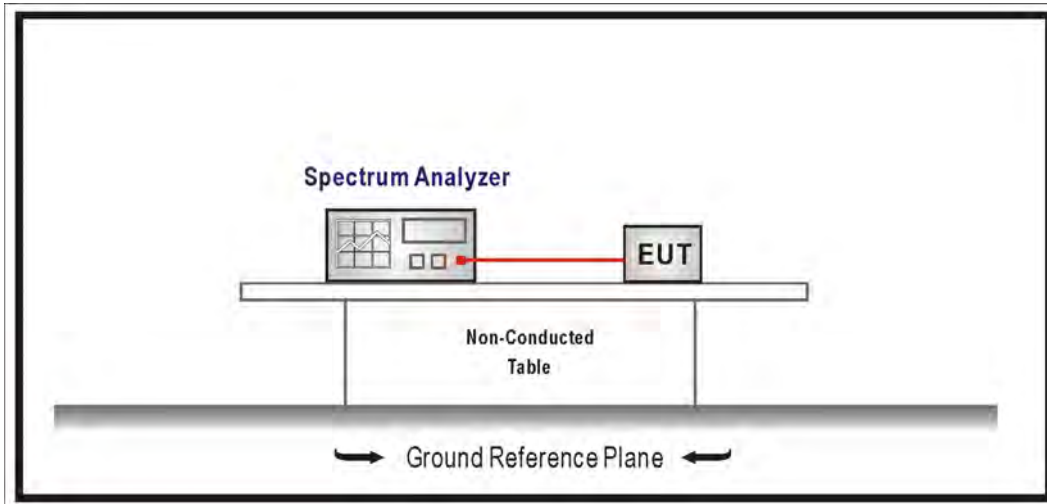
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4960	49.68	74.00	-24.32	50.66	-0.98	PK
2	6960	55.13	74.00	-18.87	49.94	5.19	PK
* 3	6960	50.69	54.00	-3.31	45.50	5.19	AV
4	7440	48.71	74.00	-25.29	41.87	6.84	PK
5	9920	52.96	74.00	-21.04	41.36	11.60	PK
6	12400	52.18	74.00	-21.82	39.33	12.85	PK

Note:

- 1.All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
- 3.Emission Level = Reading Level + Correct Factor.
- 4.The average measurement was not performed when the peak measured data under the limit of average detection.
- 5.The emission above 13GHz were not included is because their levels are lower than 20dB form limit.

5. Antenna Port Conducted Emission

5.1. Test Setup



5.2. Test Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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 an RF conducted or radiated measurement. Attenuation below the general limit specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limit specified in Section 15.209(a) (see Section 15.205(c)).

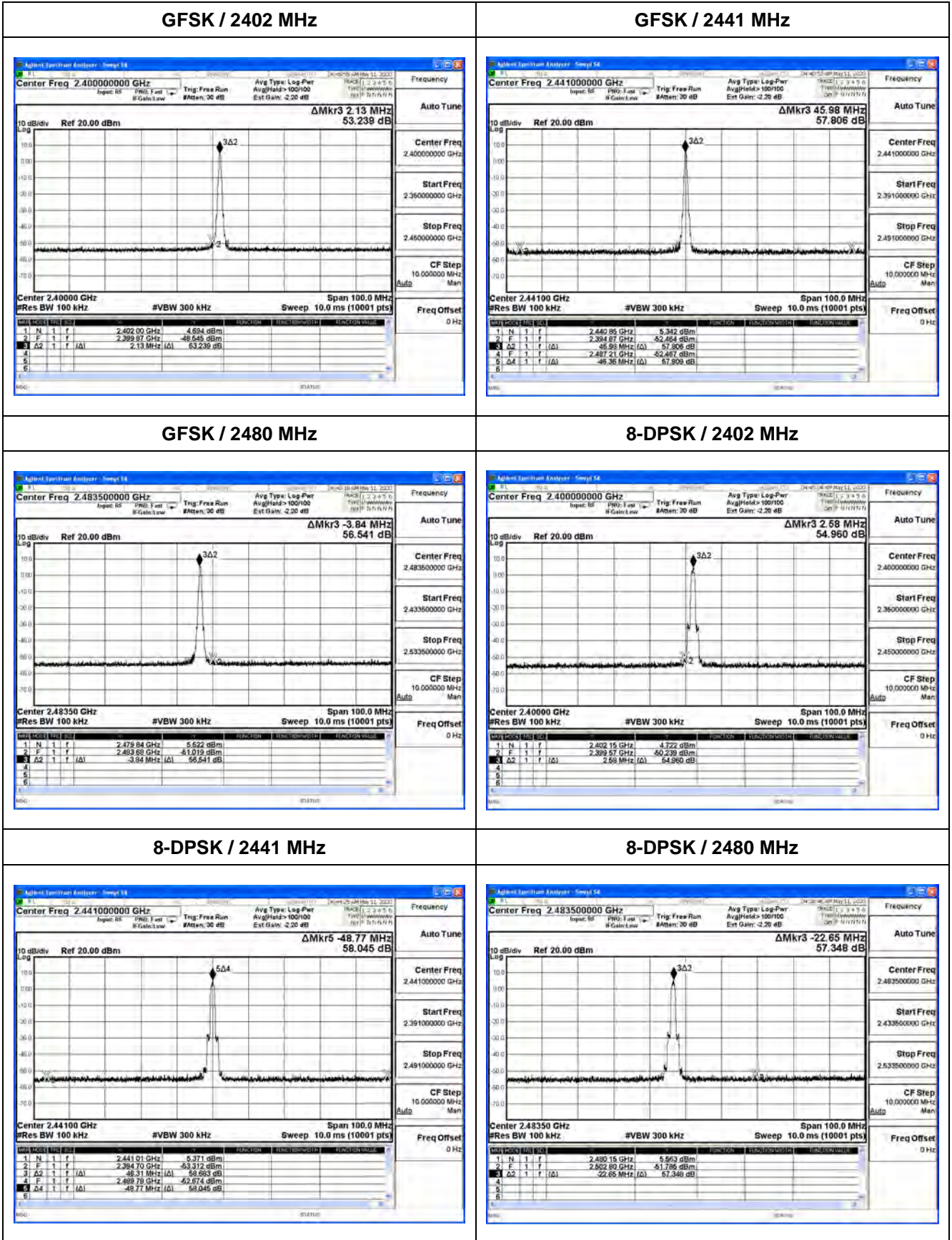
5.3. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to FHSS test procedure of FCC KDB 558074 D01 v05r02 for compliance to FCC 47CFR 15.247

5.4. Test Specification

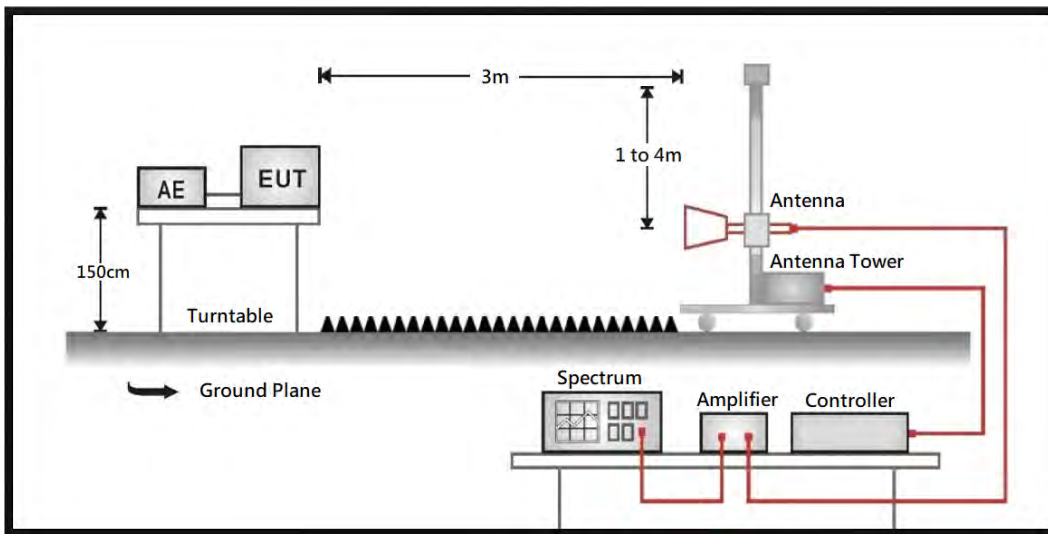
According to FCC Part 15 Subpart C Paragraph 15.247.

5.5. Test Result of Antenna Port Conducted Emission



6. Radiated Emission Band Edge

6.1. Test Setup



6.2. Test Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20 dB below the level of the fundamental or to the general radiated emission limit in paragraph 15.209, whichever is the lesser attenuation.

Frequency (MHz)	Field strength (uV/m)	Field strength (dBuV/m)	Measurement distance (m)
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

6.3. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to FHSS test procedure of FCC KDB 558074 D01 v05r02 for compliance to FCC 47CFR 15.247 requirements.

The EUT and its simulators are placed on a turn table which is 1.5 meter 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: 2013 on radiated measurement.

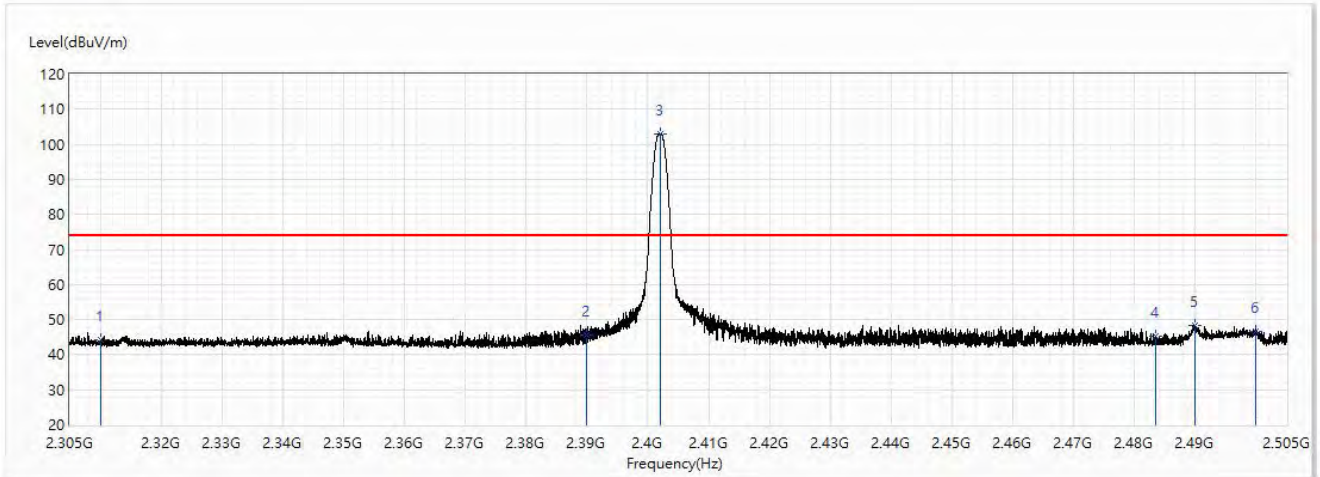
6.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247.

6.5. Test Result of Radiated Emission Band Edge

Band Edge

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Horizontal
Test Condition	GFSK / 2402 MHz		

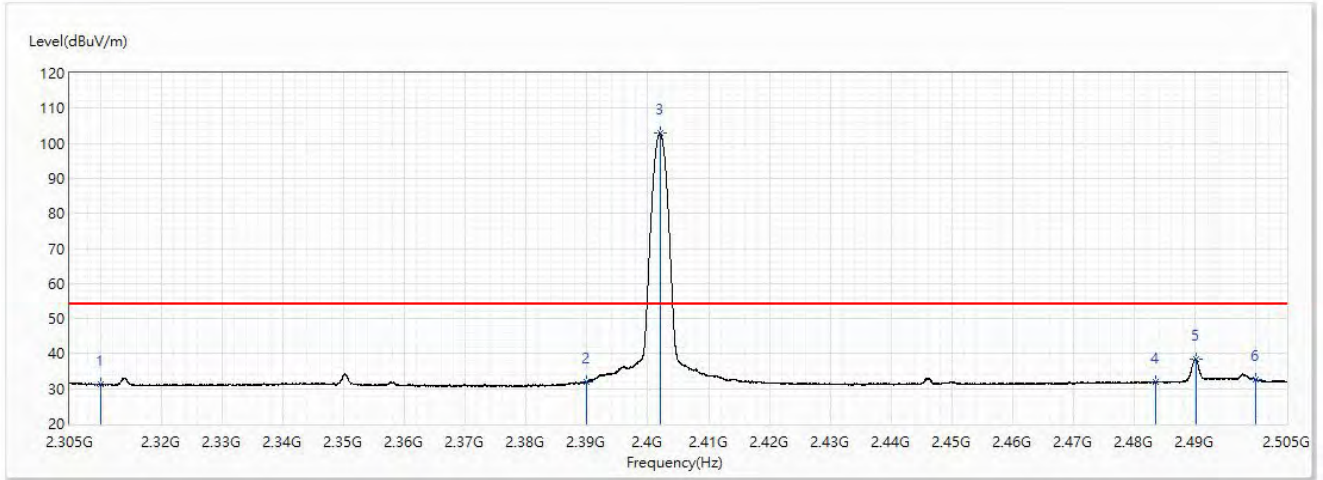


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2310	44.14	74.00	-29.86	32.60	11.54	PK
2	2390	45.43	74.00	-28.57	33.44	11.99	PK
! 3	2402.125	103.07	74.00	29.07	91.01	12.06	PK
4	2483.5	45.20	74.00	-28.80	32.70	12.50	PK
5	2489.925	48.42	74.00	-25.58	35.88	12.54	PK
6	2500	46.69	74.00	-27.31	34.10	12.59	PK

Note:

1. Emission Level = Reading Level + Correct Factor.
2. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
3. The fundamental for reference only, it's not restricted by unwanted emission limit.
4. The calculation of average value: Average value = Peak value + Duty cycle correction factor (The duty cycle correction factor refer to section "Duty Cycle").

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Horizontal
Test Condition	GPSK / 2402 MHz		

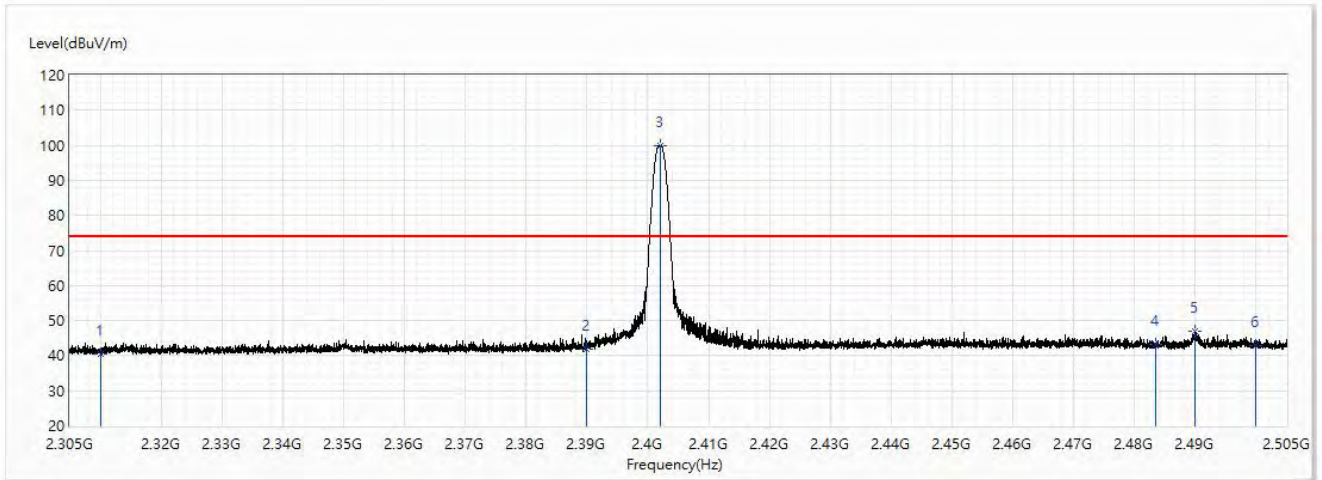


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2310	31.18	54.00	-22.82	19.64	11.54	AV
2	2390	31.96	54.00	-22.04	19.97	11.99	AV
! 3	2401.975	102.79	54.00	48.79	90.74	12.05	AV
4	2483.5	31.82	54.00	-22.18	19.32	12.50	AV
5	2490.075	38.41	54.00	-15.59	25.87	12.54	AV
6	2500	32.60	54.00	-21.40	20.01	12.59	AV

Note:

1. Emission Level = Reading Level + Correct Factor.
2. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
3. The fundamental for reference only, it's not restricted by unwanted emission limit.
4. The calculation of average value: Average value = Peak value + Duty cycle correction factor (The duty cycle correction factor refer to section "Duty Cycle").

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Vertical
Test Condition	GPSK / 2402 MHz		

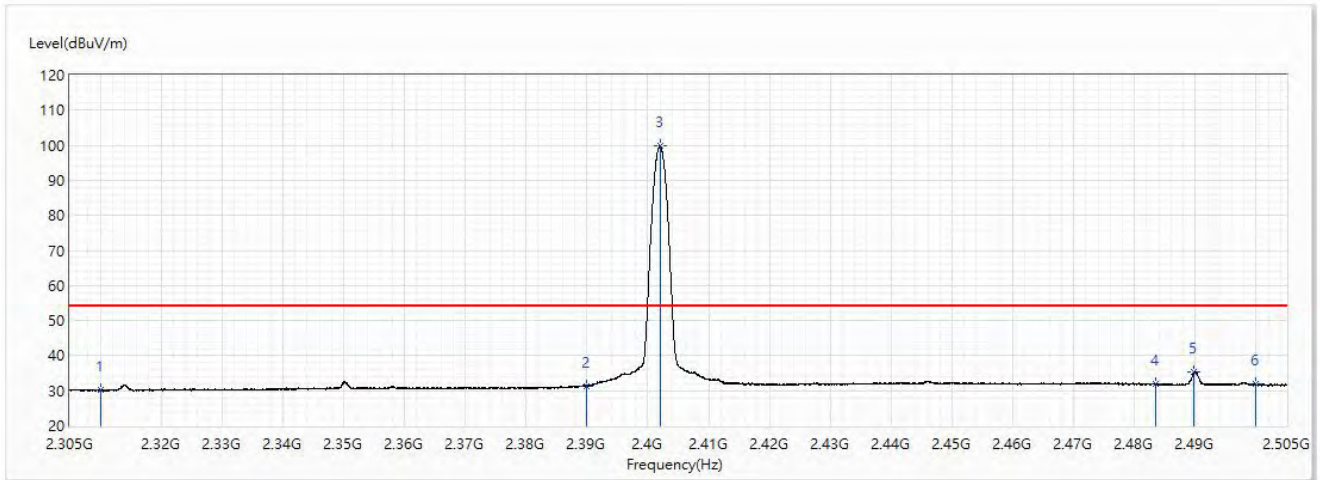


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2310	40.50	74.00	-33.50	28.96	11.54	PK
2	2390	41.86	74.00	-32.14	29.87	11.99	PK
! 3	2402.15	99.97	74.00	25.97	87.91	12.06	PK
4	2483.5	43.19	74.00	-30.81	30.69	12.50	PK
5	2489.975	47.00	74.00	-27.00	34.46	12.54	PK
6	2500	42.86	74.00	-31.14	30.27	12.59	PK

Note:

1. Emission Level = Reading Level + Correct Factor.
2. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
3. The fundamental for reference only, it's not restricted by unwanted emission limit.
4. The calculation of average value: Average value = Peak value + Duty cycle correction factor (The duty cycle correction factor refer to section "Duty Cycle").

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Vertical
Test Condition	GPSK / 2402 MHz		

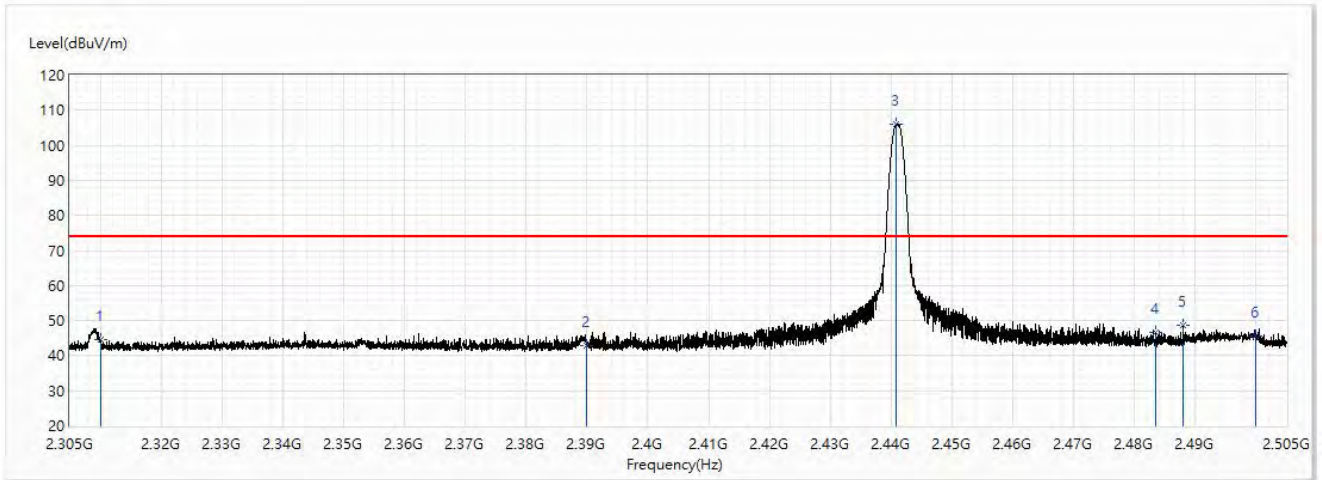


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2310	30.11	54.00	-23.89	18.57	11.54	AV
2	2390	31.35	54.00	-22.65	19.36	11.99	AV
! 3	2402	99.77	54.00	45.77	87.72	12.05	AV
4	2483.5	31.98	54.00	-22.02	19.48	12.50	AV
5	2489.825	35.31	54.00	-18.69	22.77	12.54	AV
6	2500	31.79	54.00	-22.21	19.20	12.59	AV

Note:

1. Emission Level = Reading Level + Correct Factor.
2. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
3. The fundamental for reference only, it's not restricted by unwanted emission limit.
4. The calculation of average value: Average value = Peak value + Duty cycle correction factor (The duty cycle correction factor refer to section "Duty Cycle").

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Horizontal
Test Condition	GPSK / 2441 MHz		

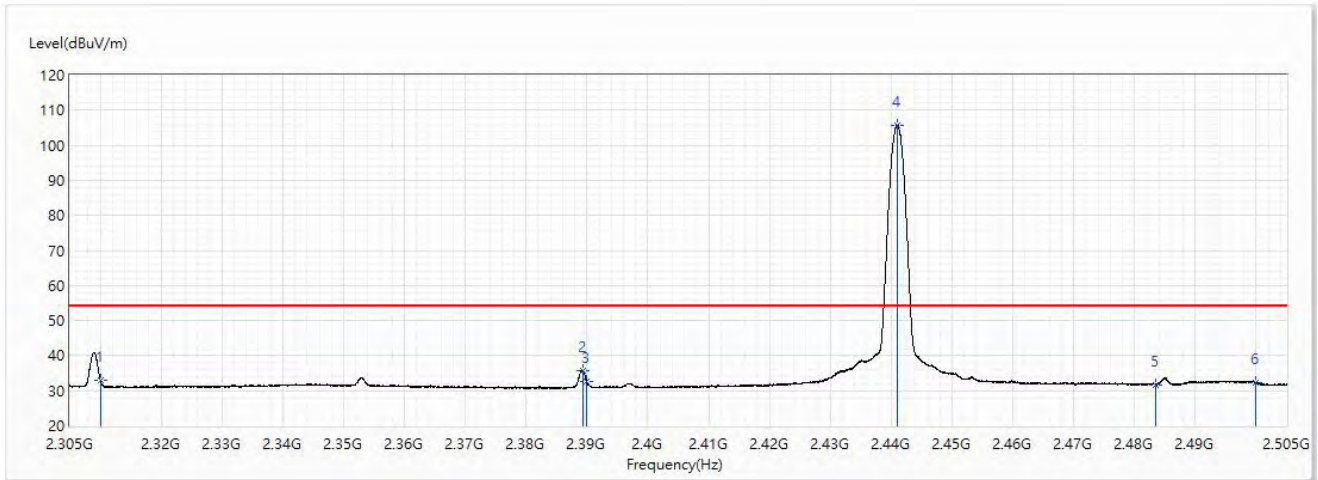


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2310	44.50	74.00	-29.50	32.96	11.54	PK
2	2390	42.97	74.00	-31.03	30.98	11.99	PK
! 3	2440.85	105.99	74.00	31.99	93.72	12.27	PK
4	2483.5	46.67	74.00	-27.33	34.17	12.50	PK
5	2488.025	48.63	74.00	-25.37	36.10	12.53	PK
6	2500	45.54	74.00	-28.46	32.95	12.59	PK

Note:

1. Emission Level = Reading Level + Correct Factor.
2. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
3. The fundamental for reference only, it's not restricted by unwanted emission limit.
4. The calculation of average value: Average value = Peak value + Duty cycle correction factor (The duty cycle correction factor refer to section "Duty Cycle").

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Horizontal
Test Condition	GPSK / 2441 MHz		

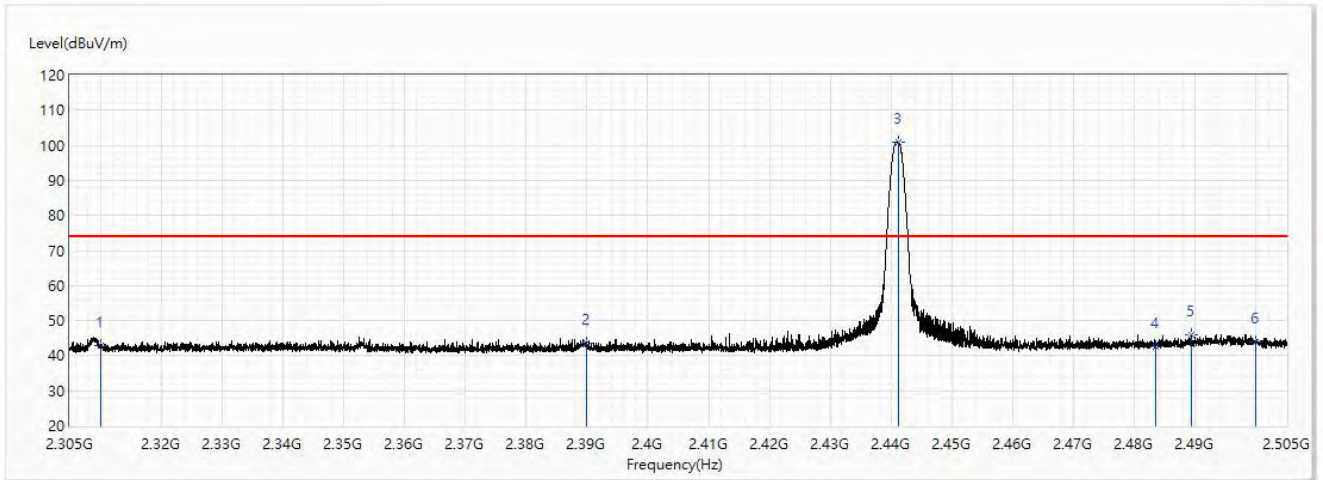


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2310	33.10	54.00	-20.90	21.56	11.54	AV
2	2389.375	35.85	54.00	-18.15	23.87	11.98	AV
3	2390	32.48	54.00	-21.52	20.49	11.99	AV
! 4	2441	105.70	54.00	51.70	93.43	12.27	AV
5	2483.5	31.75	54.00	-22.25	19.25	12.50	AV
6	2500	32.17	54.00	-21.83	19.58	12.59	AV

Note:

1. Emission Level = Reading Level + Correct Factor.
2. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
3. The fundamental for reference only, it's not restricted by unwanted emission limit.
4. The calculation of average value: Average value = Peak value + Duty cycle correction factor (The duty cycle correction factor refer to section "Duty Cycle").

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Vertical
Test Condition	GPSK / 2441 MHz		

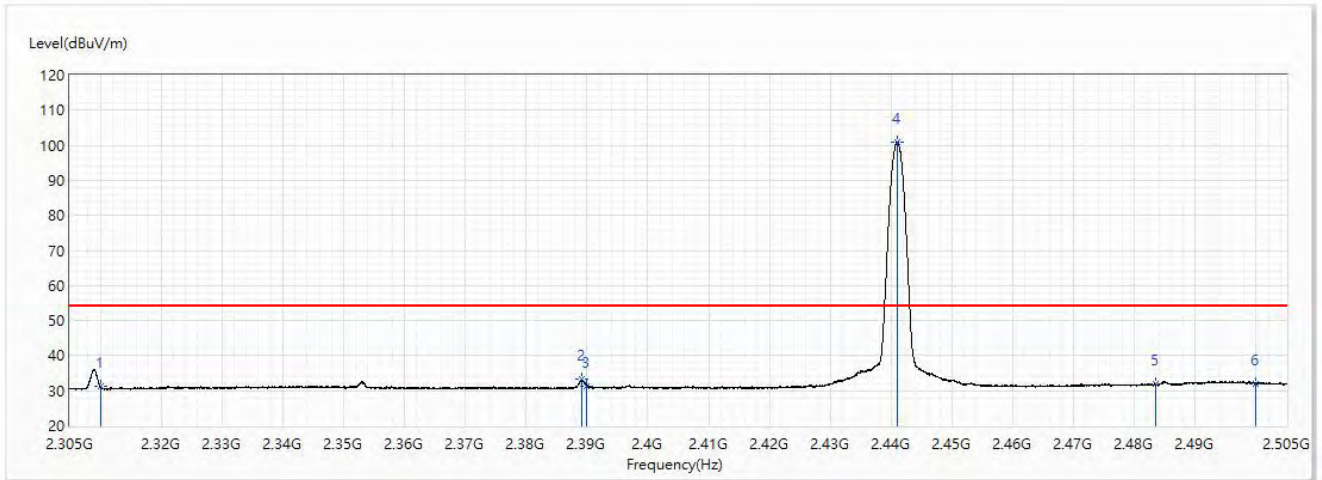


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2310	42.90	74.00	-31.10	31.36	11.54	PK
2	2390	43.59	74.00	-30.41	31.60	11.99	PK
! 3	2441.15	100.96	74.00	26.96	88.69	12.27	PK
4	2483.5	42.38	74.00	-31.62	29.88	12.50	PK
5	2489.25	46.00	74.00	-28.00	33.47	12.53	PK
6	2500	43.85	74.00	-30.15	31.26	12.59	PK

Note:

1. Emission Level = Reading Level + Correct Factor.
2. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
3. The fundamental for reference only, it's not restricted by unwanted emission limit.
4. The calculation of average value: Average value = Peak value + Duty cycle correction factor (The duty cycle correction factor refer to section "Duty Cycle").

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Vertical
Test Condition	GPSK / 2441 MHz		

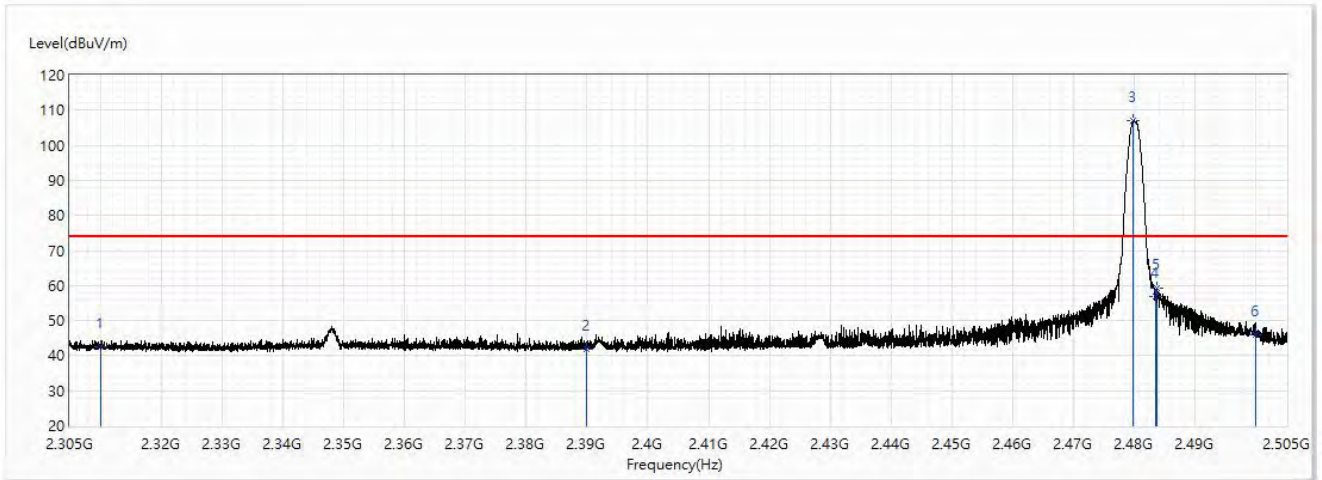


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2310	31.31	54.00	-22.69	19.77	11.54	AV
2	2389.15	33.17	54.00	-20.83	21.20	11.97	AV
3	2390	31.38	54.00	-22.62	19.39	11.99	AV
! 4	2441	100.91	54.00	46.91	88.64	12.27	AV
5	2483.5	31.82	54.00	-22.18	19.32	12.50	AV
6	2500	32.11	54.00	-21.89	19.52	12.59	AV

Note:

1. Emission Level = Reading Level + Correct Factor.
2. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
3. The fundamental for reference only, it's not restricted by unwanted emission limit.
4. The calculation of average value: Average value = Peak value + Duty cycle correction factor (The duty cycle correction factor refer to section "Duty Cycle").

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Horizontal
Test Condition	GPSK / 2480 MHz		

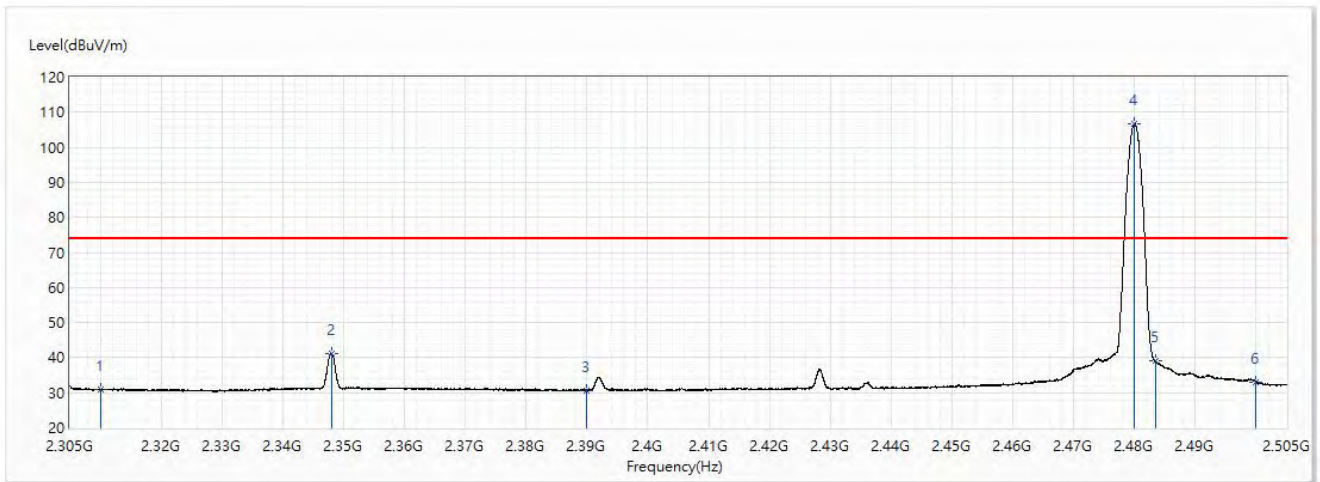


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2310	42.41	74.00	-31.59	30.87	11.54	PK
2	2390	41.86	74.00	-32.14	29.87	11.99	PK
! 3	2479.85	106.87	74.00	32.87	94.39	12.48	PK
4	2483.5	56.75	74.00	-17.25	44.25	12.50	PK
5	2483.7	59.10	74.00	-14.90	46.60	12.50	PK
6	2500	45.85	74.00	-28.15	33.26	12.59	PK

Note:

1. Emission Level = Reading Level + Correct Factor.
2. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
3. The fundamental for reference only, it's not restricted by unwanted emission limit.
4. The calculation of average value: Average value = Peak value + Duty cycle correction factor (The duty cycle correction factor refer to section "Duty Cycle").

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Horizontal
Test Condition	GPSK / 2480 MHz		

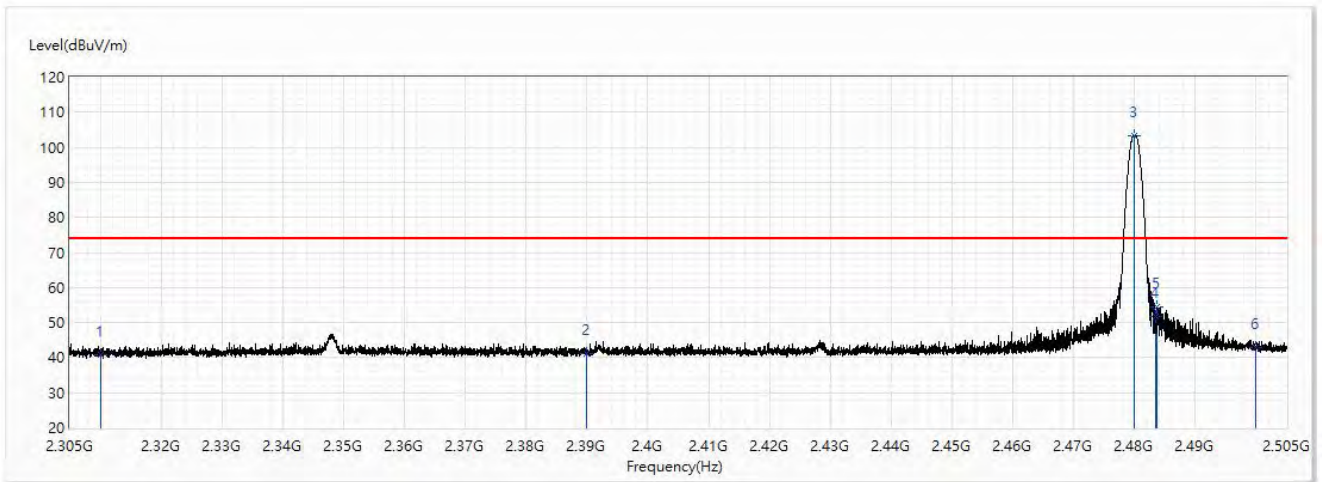


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2310	31.05	74.00	-42.95	19.51	11.54	PK
2	2348.025	41.32	74.00	-32.68	29.56	11.76	PK
3	2390	30.69	74.00	-43.31	18.70	11.99	PK
! 4	2480	106.63	74.00	32.63	94.15	12.48	PK
5	2483.5	38.98	74.00	-35.02	26.48	12.50	PK
6	2500	33.06	74.00	-40.94	20.47	12.59	PK

Note:

1. Emission Level = Reading Level + Correct Factor.
2. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
3. The fundamental for reference only, it's not restricted by unwanted emission limit.
4. The calculation of average value: Average value = Peak value + Duty cycle correction factor (The duty cycle correction factor refer to section "Duty Cycle")

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Vertical
Test Condition	GPSK / 2480 MHz		

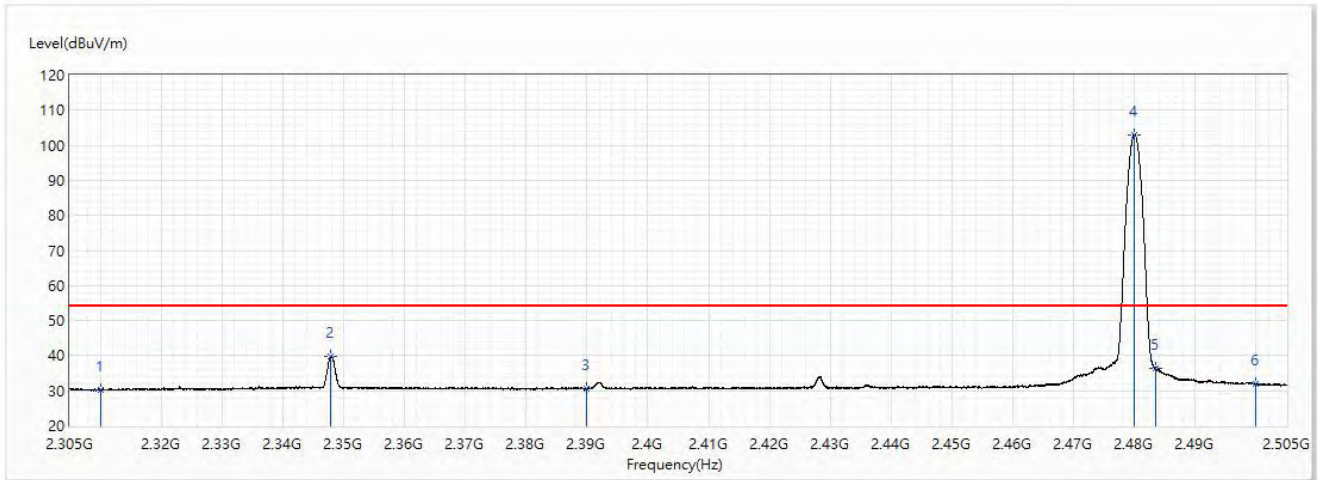


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2310	40.86	74.00	-33.14	29.32	11.54	PK
2	2390	41.13	74.00	-32.87	29.14	11.99	PK
! 3	2479.875	103.25	74.00	29.25	90.77	12.48	PK
4	2483.5	51.86	74.00	-22.14	39.36	12.50	PK
5	2483.725	54.55	74.00	-19.45	42.05	12.50	PK
6	2500	42.95	74.00	-31.05	30.36	12.59	PK

Note:

1. Emission Level = Reading Level + Correct Factor.
2. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
3. The fundamental for reference only, it's not restricted by unwanted emission limit.
4. The calculation of average value: Average value = Peak value + Duty cycle correction factor (The duty cycle correction factor refer to section "Duty Cycle").

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Vertical
Test Condition	GPSK / 2480 MHz		

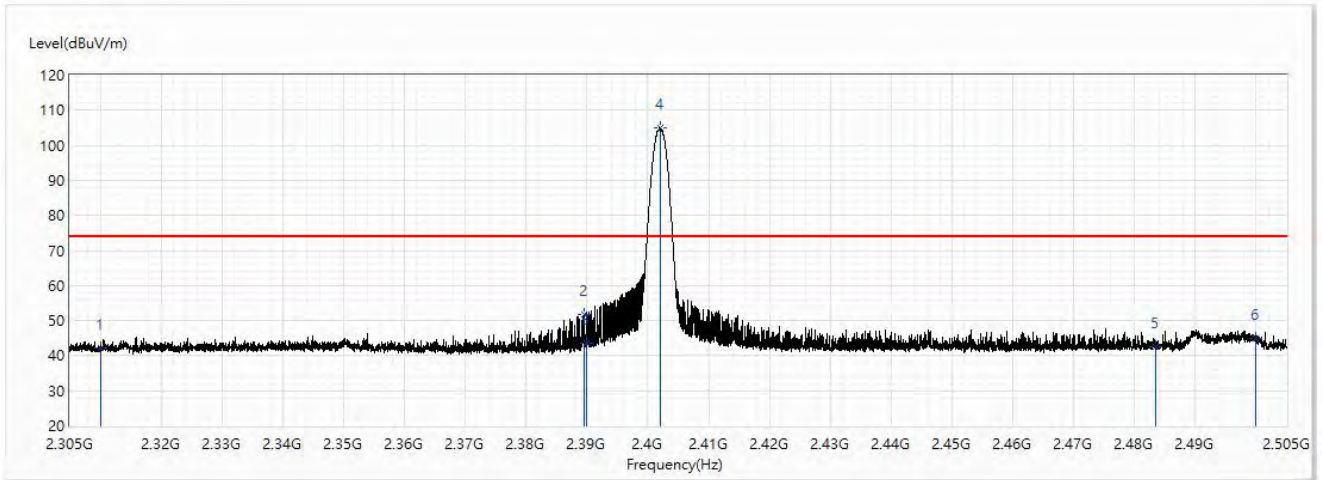


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2310	30.33	54.00	-23.67	18.79	11.54	AV
2	2347.95	39.80	54.00	-14.20	28.04	11.76	AV
3	2390	30.57	54.00	-23.43	18.58	11.99	AV
! 4	2480.025	103.01	54.00	49.01	90.53	12.48	AV
5	2483.5	36.31	54.00	-17.69	23.81	12.50	AV
6	2500	32.01	54.00	-21.99	19.42	12.59	AV

Note:

1. Emission Level = Reading Level + Correct Factor.
2. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
3. The fundamental for reference only, it's not restricted by unwanted emission limit.
4. The calculation of average value: Average value = Peak value + Duty cycle correction factor (The duty cycle correction factor refer to section "Duty Cycle").

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Horizontal
Test Condition	8DPSK / 2402 MHz		

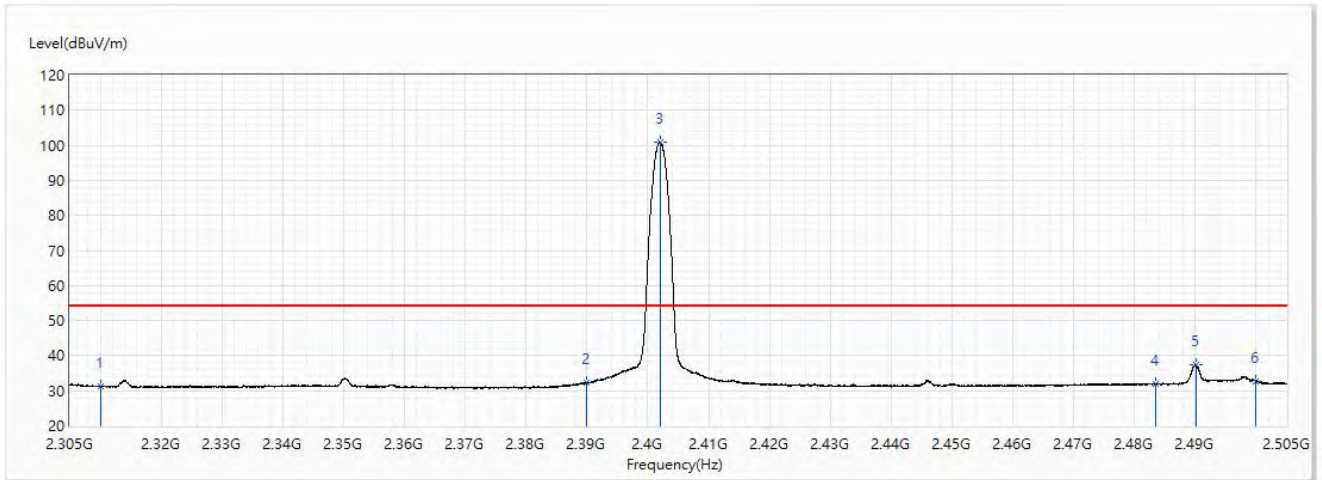


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2310	42.07	74.00	-31.93	30.53	11.54	PK
2	2389.45	51.58	74.00	-22.42	39.60	11.98	PK
3	2390	43.58	74.00	-30.42	31.59	11.99	PK
! 4	2402.05	104.84	74.00	30.84	92.79	12.05	PK
5	2483.5	42.52	74.00	-31.48	30.02	12.50	PK
6	2500	45.08	74.00	-28.92	32.49	12.59	PK

Note:

1. Emission Level = Reading Level + Correct Factor.
2. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
3. The fundamental for reference only, it's not restricted by unwanted emission limit.
4. The calculation of average value: Average value = Peak value + Duty cycle correction factor (The duty cycle correction factor refer to section "Duty Cycle").

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Horizontal
Test Condition	8DPSK / 2402 MHz		

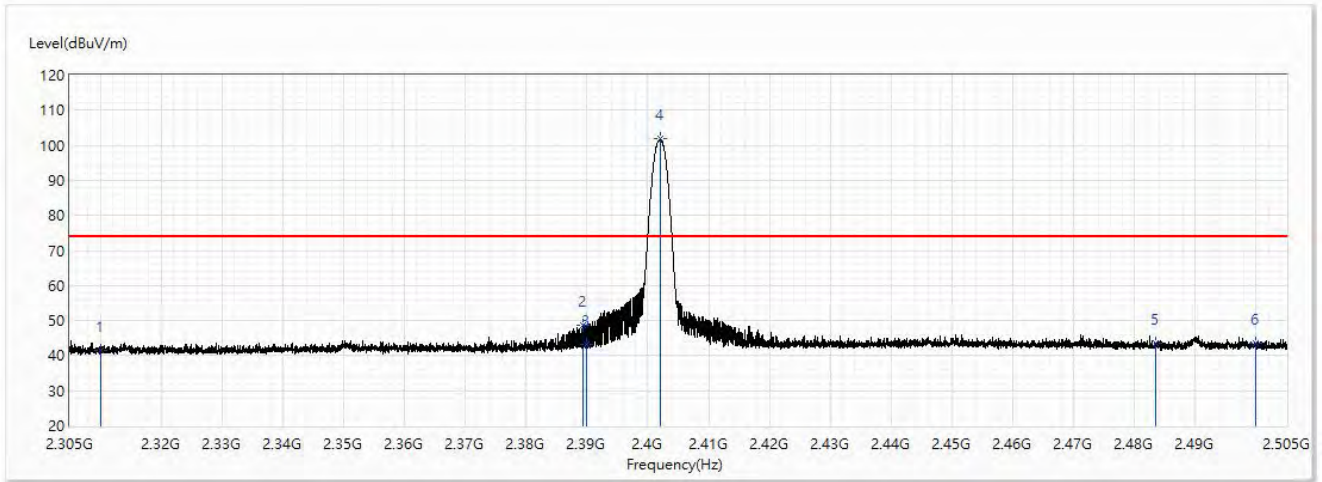


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2310	31.18	54.00	-22.82	19.64	11.54	AV
2	2390	32.14	54.00	-21.86	20.15	11.99	AV
! 3	2402.025	100.95	54.00	46.95	88.90	12.05	AV
4	2483.5	31.91	54.00	-22.09	19.41	12.50	AV
5	2490.1	37.29	54.00	-16.71	24.75	12.54	AV
6	2500	32.77	54.00	-21.23	20.18	12.59	AV

Note:

1. Emission Level = Reading Level + Correct Factor.
2. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
3. The fundamental for reference only, it's not restricted by unwanted emission limit.
4. The calculation of average value: Average value = Peak value + Duty cycle correction factor (The duty cycle correction factor refer to section "Duty Cycle").

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Vertical
Test Condition	8DPSK / 2402 MHz		

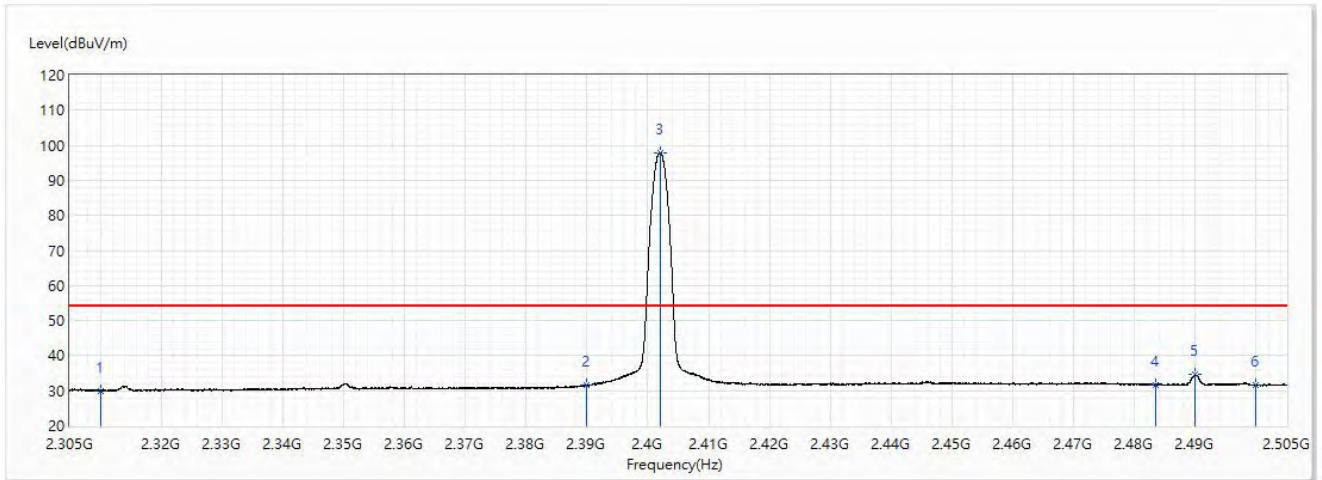


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2310	41.42	74.00	-32.58	29.88	11.54	PK
2	2389.3	48.73	74.00	-25.27	36.75	11.98	PK
3	2390	43.20	74.00	-30.80	31.21	11.99	PK
! 4	2402	101.76	74.00	27.76	89.71	12.05	PK
5	2483.5	43.58	74.00	-30.42	31.08	12.50	PK
6	2500	43.69	74.00	-30.31	31.10	12.59	PK

Note:

1. Emission Level = Reading Level + Correct Factor.
2. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
3. The fundamental for reference only, it's not restricted by unwanted emission limit.
4. The calculation of average value: Average value = Peak value + Duty cycle correction factor (The duty cycle correction factor refer to section "Duty Cycle").

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Vertical
Test Condition	8DPSK / 2402 MHz		

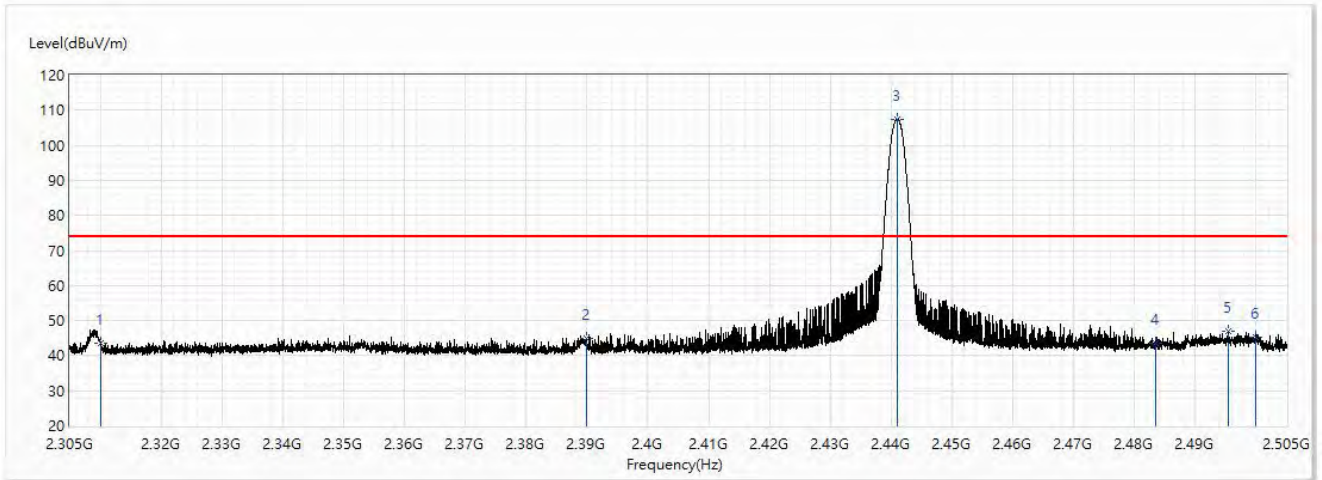


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2310	30.06	54.00	-23.94	18.52	11.54	AV
2	2390	31.49	54.00	-22.51	19.50	11.99	AV
! 3	2401.975	97.92	54.00	43.92	85.87	12.05	AV
4	2483.5	31.77	54.00	-22.23	19.27	12.50	AV
5	2490	34.60	54.00	-19.40	22.06	12.54	AV
6	2500	31.67	54.00	-22.33	19.08	12.59	AV

Note:

1. Emission Level = Reading Level + Correct Factor.
2. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
3. The fundamental for reference only, it's not restricted by unwanted emission limit.
4. The calculation of average value: Average value = Peak value + Duty cycle correction factor (The duty cycle correction factor refer to section "Duty Cycle").

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Horizontal
Test Condition	8DPSK / 2441 MHz		

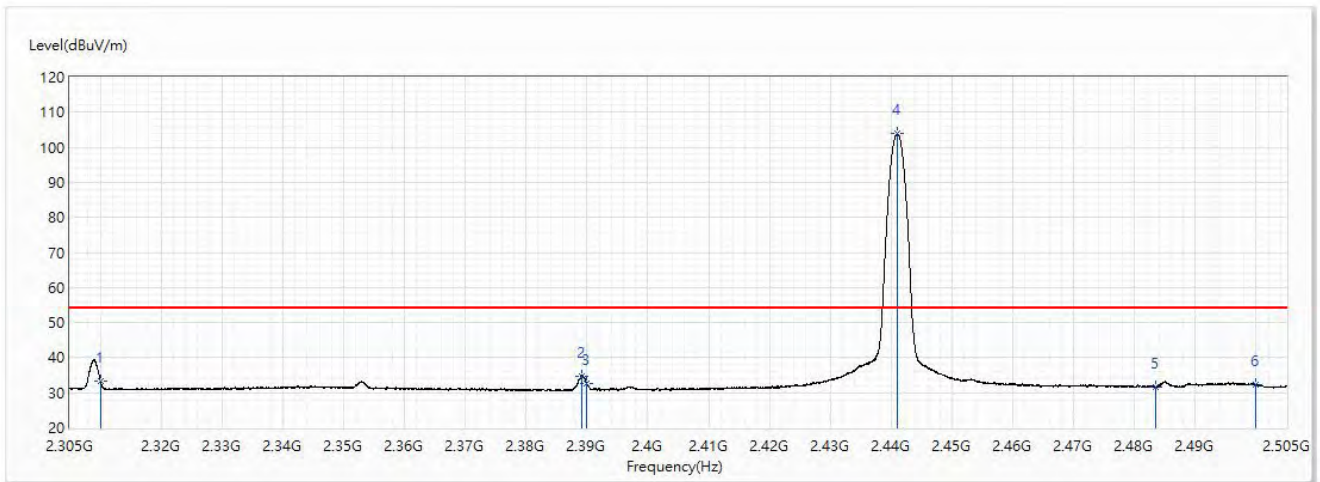


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2310	43.51	74.00	-30.49	31.97	11.54	PK
2	2390	44.78	74.00	-29.22	32.79	11.99	PK
! 3	2441	107.53	74.00	33.53	95.26	12.27	PK
4	2483.5	43.44	74.00	-30.56	30.94	12.50	PK
5	2495.5	47.05	74.00	-26.95	34.49	12.56	PK
6	2500	45.22	74.00	-28.78	32.63	12.59	PK

Note:

1. Emission Level = Reading Level + Correct Factor.
2. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
3. The fundamental for reference only, it's not restricted by unwanted emission limit.
4. The calculation of average value: Average value = Peak value + Duty cycle correction factor (The duty cycle correction factor refer to section "Duty Cycle").

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Horizontal
Test Condition	8DPSK / 2441 MHz		

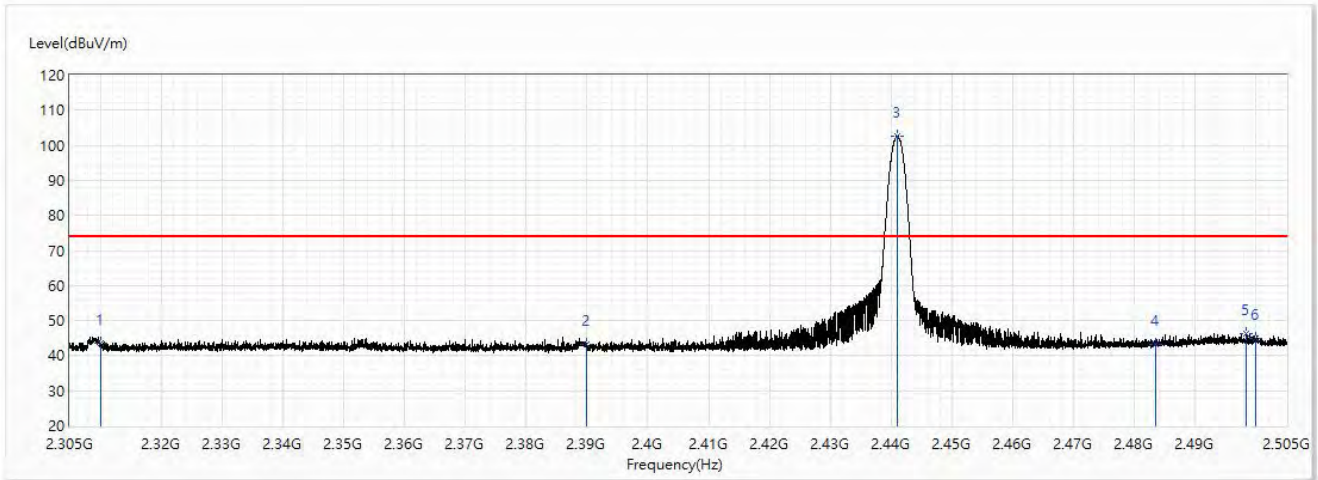


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2310	33.47	54.00	-20.53	21.93	11.54	AV
2	2389.075	34.73	54.00	-19.27	22.76	11.97	AV
3	2390	32.49	54.00	-21.51	20.50	11.99	AV
! 4	2441.025	103.84	54.00	49.84	91.57	12.27	AV
5	2483.5	31.66	54.00	-22.34	19.16	12.50	AV
6	2500	32.19	54.00	-21.81	19.60	12.59	AV

Note:

1. Emission Level = Reading Level + Correct Factor.
2. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
3. The fundamental for reference only, it's not restricted by unwanted emission limit.
4. The calculation of average value: Average value = Peak value + Duty cycle correction factor (The duty cycle correction factor refer to section "Duty Cycle").

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Vertical
Test Condition	8DPSK / 2441 MHz		

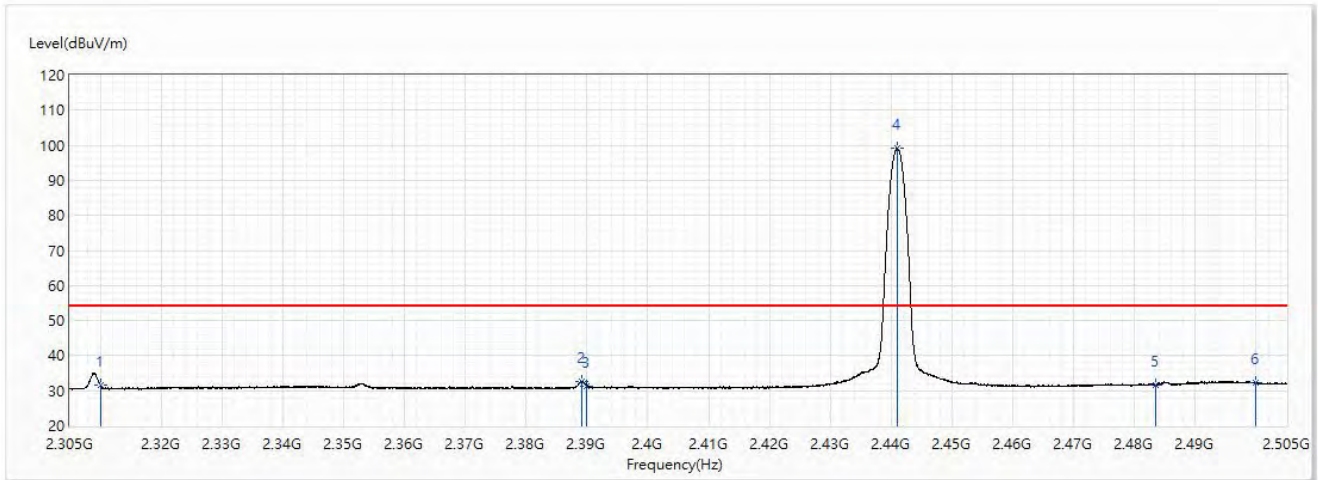


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2310	43.46	74.00	-30.54	31.92	11.54	PK
2	2390	43.24	74.00	-30.76	31.25	11.99	PK
! 3	2441.025	102.61	74.00	28.61	90.34	12.27	PK
4	2483.5	43.16	74.00	-30.84	30.66	12.50	PK
5	2498.425	46.27	74.00	-27.73	33.68	12.59	PK
6	2500	44.93	74.00	-29.07	32.34	12.59	PK

Note:

1. Emission Level = Reading Level + Correct Factor.
2. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
3. The fundamental for reference only, it's not restricted by unwanted emission limit.
4. The calculation of average value: Average value = Peak value + Duty cycle correction factor (The duty cycle correction factor refer to section "Duty Cycle").

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Vertical
Test Condition	8DPSK / 2441 MHz		

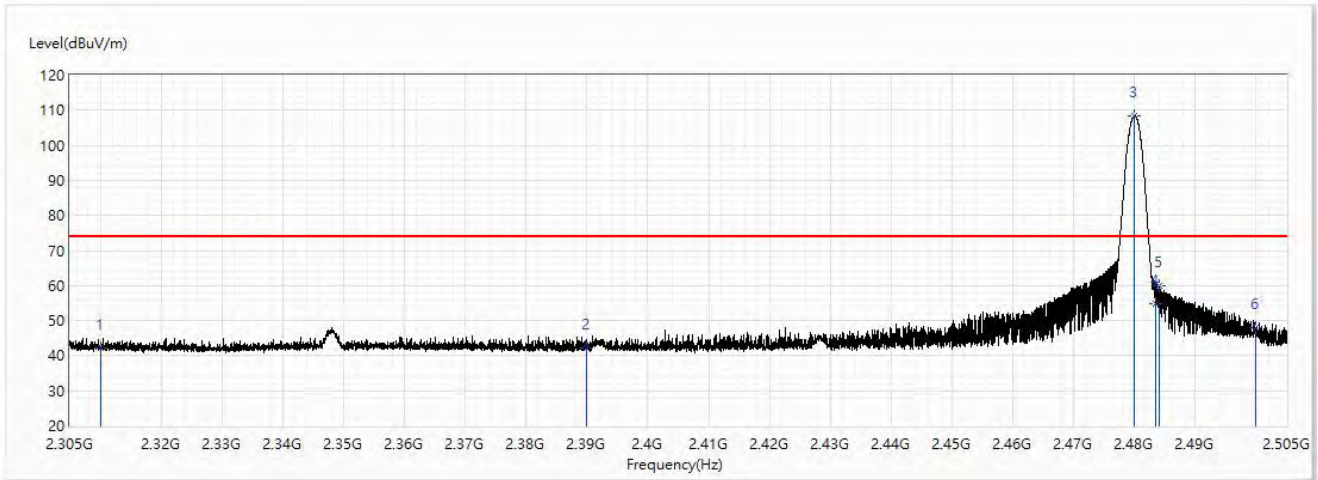


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2310	31.61	54.00	-22.39	20.07	11.54	AV
2	2389.2	32.67	54.00	-21.33	20.69	11.98	AV
3	2390	31.34	54.00	-22.66	19.35	11.99	AV
! 4	2441	99.10	54.00	45.10	86.83	12.27	AV
5	2483.5	31.73	54.00	-22.27	19.23	12.50	AV
6	2500	32.29	54.00	-21.71	19.70	12.59	AV

Note:

1. Emission Level = Reading Level + Correct Factor.
2. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
3. The fundamental for reference only, it's not restricted by unwanted emission limit.
4. The calculation of average value: Average value = Peak value + Duty cycle correction factor (The duty cycle correction factor refer to section "Duty Cycle").

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Horizontal
Test Condition	8DPSK / 2480 MHz		

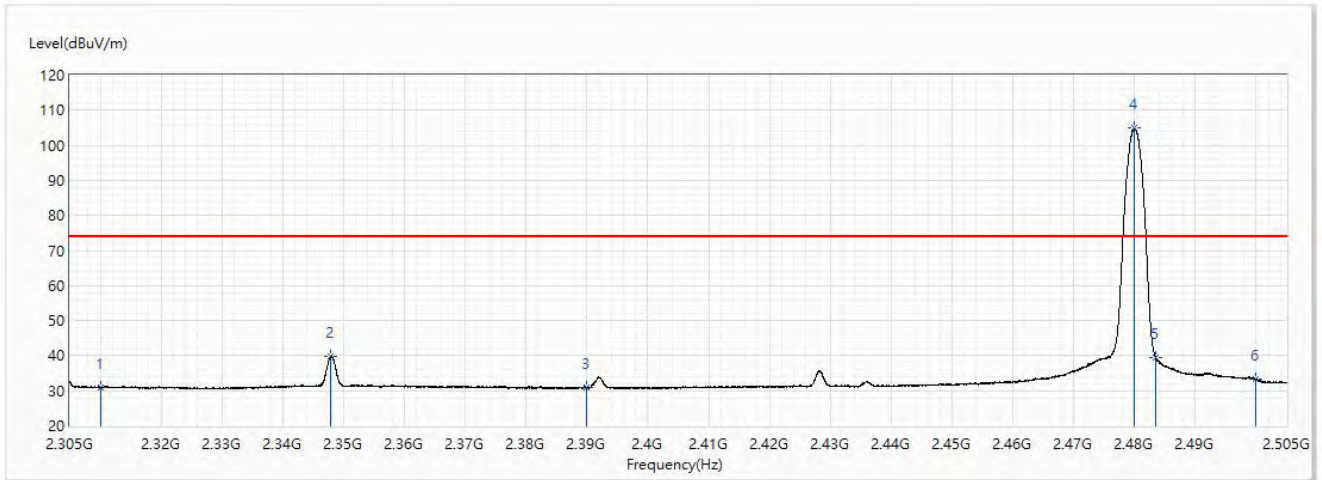


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2310	42.06	74.00	-31.94	30.52	11.54	PK
2	2390	42.04	74.00	-31.96	30.05	11.99	PK
! 3	2480	108.36	74.00	34.36	95.88	12.48	PK
4	2483.5	54.73	74.00	-19.27	42.23	12.50	PK
5	2484.025	59.85	74.00	-14.15	47.35	12.50	PK
6	2500	48.10	74.00	-25.90	35.51	12.59	PK

Note:

1. Emission Level = Reading Level + Correct Factor.
2. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
3. The fundamental for reference only, it's not restricted by unwanted emission limit.
4. The calculation of average value: Average value = Peak value + Duty cycle correction factor (The duty cycle correction factor refer to section "Duty Cycle").

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Horizontal
Test Condition	8DPSK / 2480 MHz		

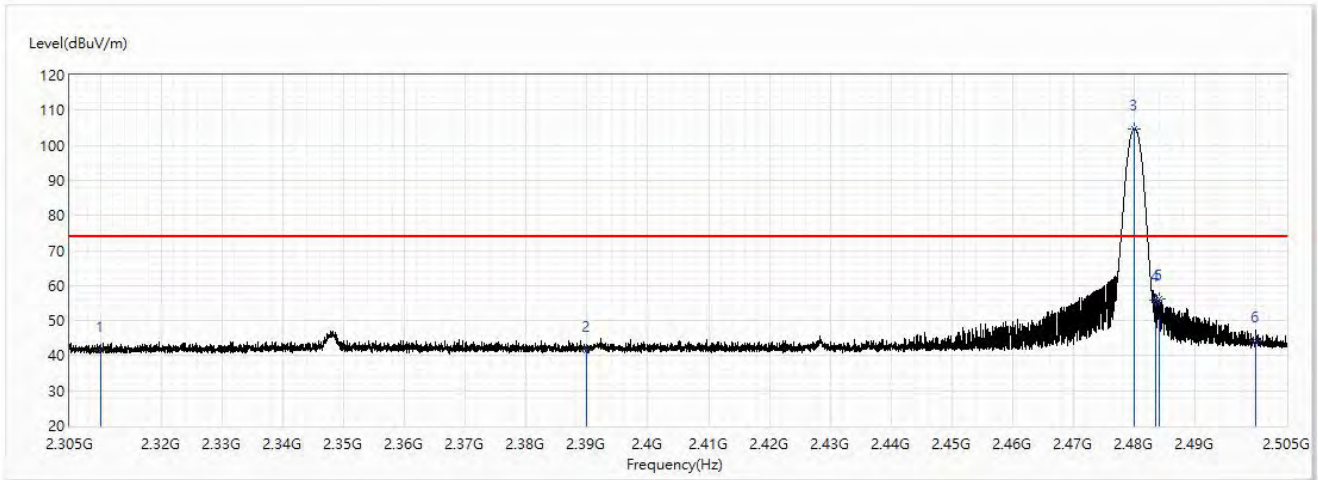


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2310	31.01	74.00	-42.99	19.47	11.54	PK
2	2347.95	39.76	74.00	-34.24	28.00	11.76	PK
3	2390	30.84	74.00	-43.16	18.85	11.99	PK
! 4	2480.025	104.82	74.00	30.82	92.34	12.48	PK
5	2483.5	39.40	74.00	-34.60	26.90	12.50	PK
6	2500	33.25	74.00	-40.75	20.66	12.59	PK

Note:

1. Emission Level = Reading Level + Correct Factor.
2. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
3. The fundamental for reference only, it's not restricted by unwanted emission limit.
4. The calculation of average value: Average value = Peak value + Duty cycle correction factor (The duty cycle correction factor refer to section "Duty Cycle").

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Vertical
Test Condition	8DPSK / 2480 MHz		

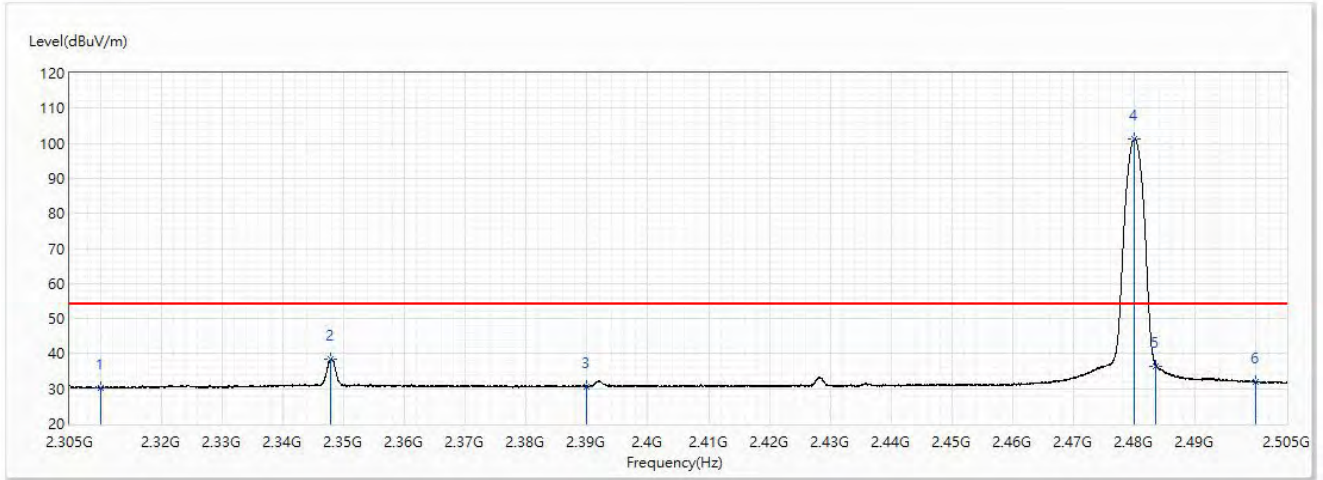


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2310	41.63	74.00	-32.37	30.09	11.54	PK
2	2390	41.67	74.00	-32.33	29.68	11.99	PK
! 3	2480.025	104.75	74.00	30.75	92.27	12.48	PK
4	2483.5	55.86	74.00	-18.14	43.36	12.50	PK
5	2484.125	56.03	74.00	-17.97	43.53	12.50	PK
6	2500	44.17	74.00	-29.83	31.58	12.59	PK

Note:

1. Emission Level = Reading Level + Correct Factor.
2. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
3. The fundamental for reference only, it's not restricted by unwanted emission limit.
4. The calculation of average value: Average value = Peak value + Duty cycle correction factor (The duty cycle correction factor refer to section "Duty Cycle").

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Vertical
Test Condition	8DPSK / 2480 MHz		



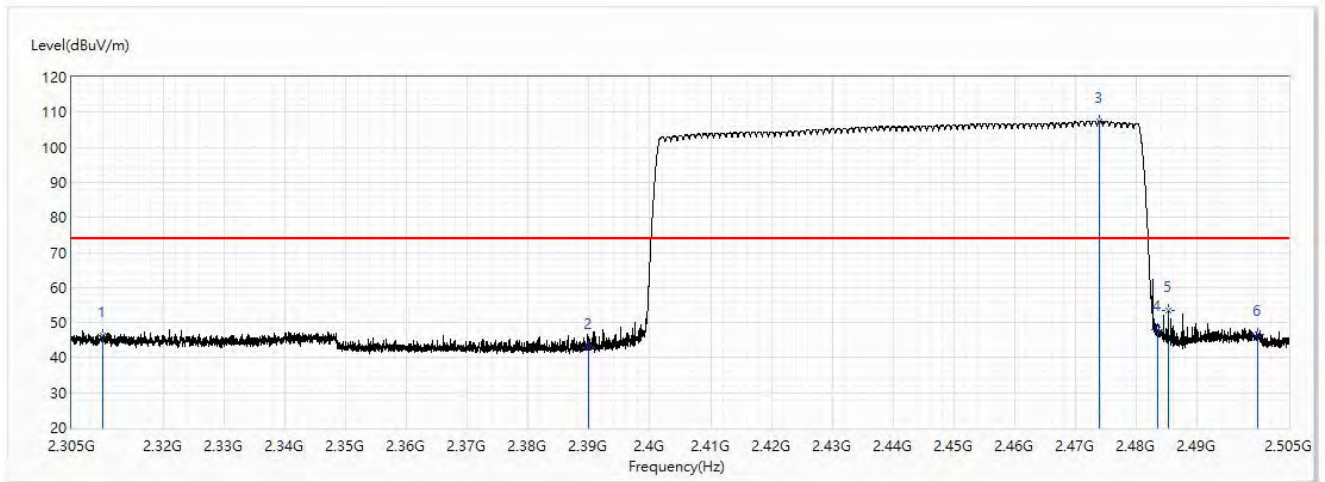
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2310	30.34	54.00	-23.66	18.80	11.54	AV
2	2347.95	38.45	54.00	-15.55	26.69	11.76	AV
3	2390	30.72	54.00	-23.28	18.73	11.99	AV
! 4	2479.95	101.20	54.00	47.20	88.72	12.48	AV
5	2483.5	36.53	54.00	-17.47	24.03	12.50	AV
6	2500	31.94	54.00	-22.06	19.35	12.59	AV

Note:

1. Emission Level = Reading Level + Correct Factor.
2. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
3. The fundamental for reference only, it's not restricted by unwanted emission limit.
4. The calculation of average value: Average value = Peak value + Duty cycle correction factor (The duty cycle correction factor refer to section "Duty Cycle").

Band Edge – Hopping

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Horizontal
Test Condition	GPSK		

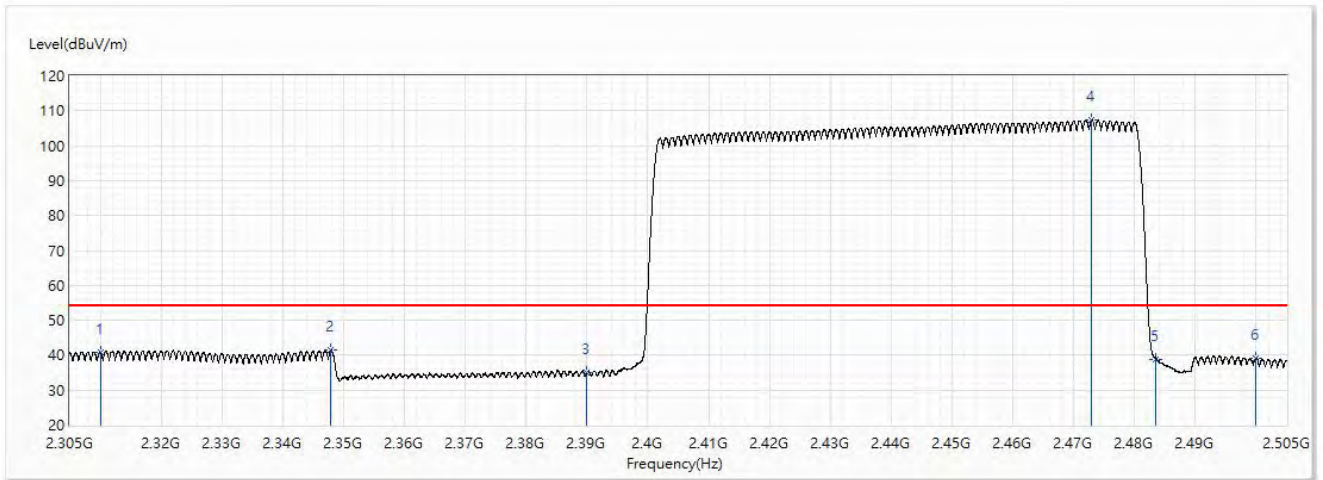


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2310	46.34	74.00	-27.66	34.80	11.54	PK
2	2390	42.72	74.00	-31.28	30.73	11.99	PK
! 3	2473.925	107.47	74.00	33.47	95.02	12.45	PK
4	2483.5	47.82	74.00	-26.18	35.32	12.50	PK
5	2485.3	53.33	74.00	-20.67	40.83	12.50	PK
6	2500	46.49	74.00	-27.51	33.90	12.59	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it's not restricted by unwanted emission limit.

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Horizontal
Test Condition	GPSK		

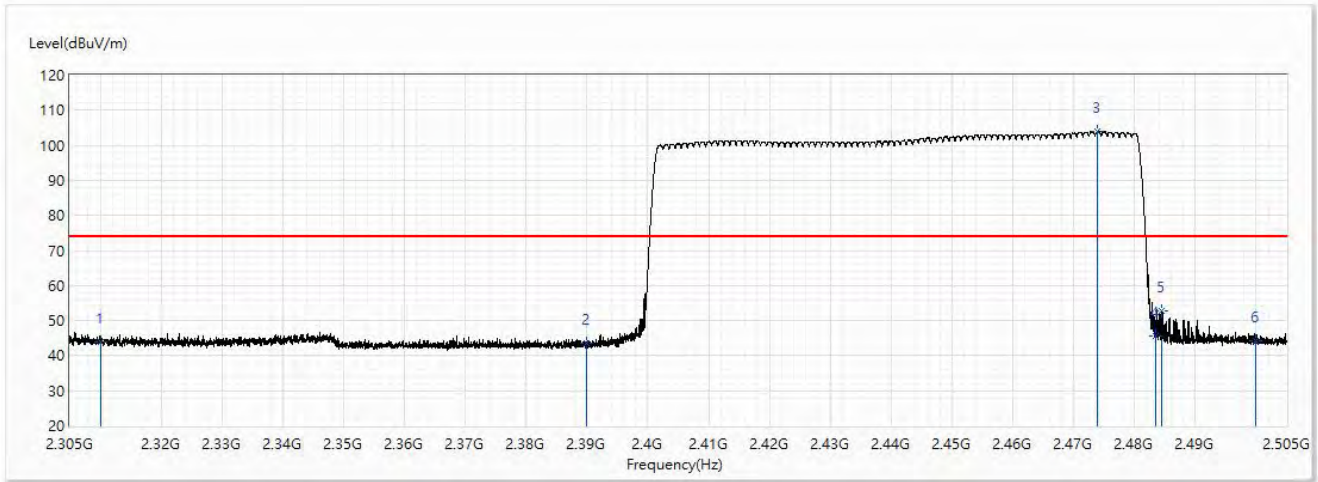


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2310	40.89	54.00	-13.11	29.35	11.54	AV
2	2347.95	41.40	54.00	-12.60	29.64	11.76	AV
3	2390	34.93	54.00	-19.07	22.94	11.99	AV
! 4	2473	107.23	54.00	53.23	94.78	12.45	AV
5	2483.5	38.77	54.00	-15.23	26.27	12.50	AV
6	2500	39.15	54.00	-14.85	26.56	12.59	AV

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it's not restricted by unwanted emission limit.

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Vertical
Test Condition	GPSK		

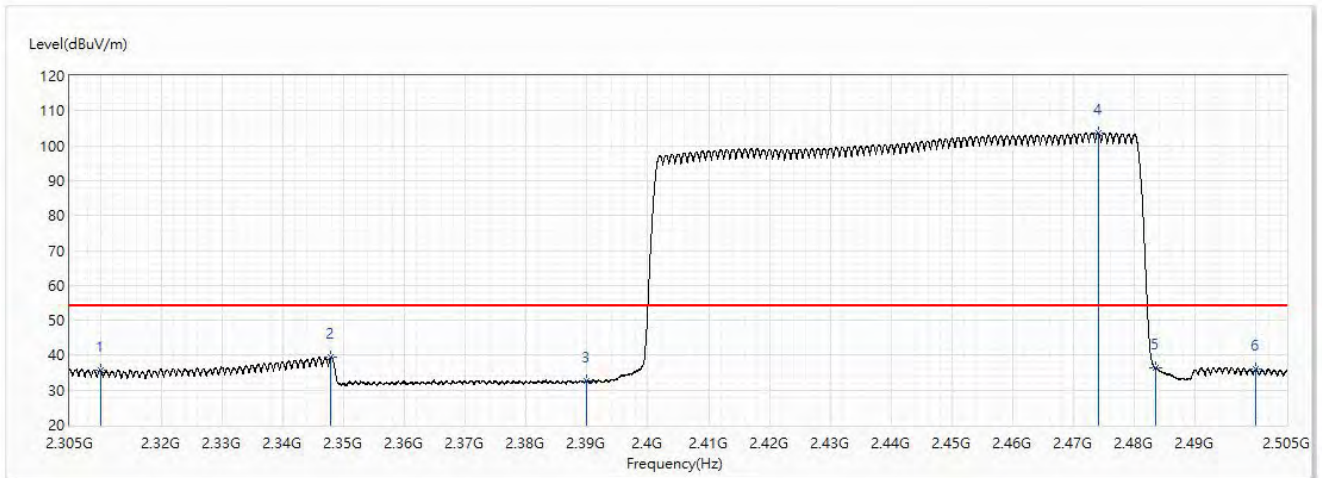


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2310	43.89	74.00	-30.11	32.35	11.54	PK
2	2390	43.47	74.00	-30.53	31.48	11.99	PK
! 3	2473.85	103.86	74.00	29.86	91.41	12.45	PK
4	2483.5	45.51	74.00	-28.49	33.01	12.50	PK
5	2484.4	52.64	74.00	-21.36	40.14	12.50	PK
6	2500	44.21	74.00	-29.79	31.62	12.59	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it's not restricted by unwanted emission limit.

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Vertical
Test Condition	GPSK		

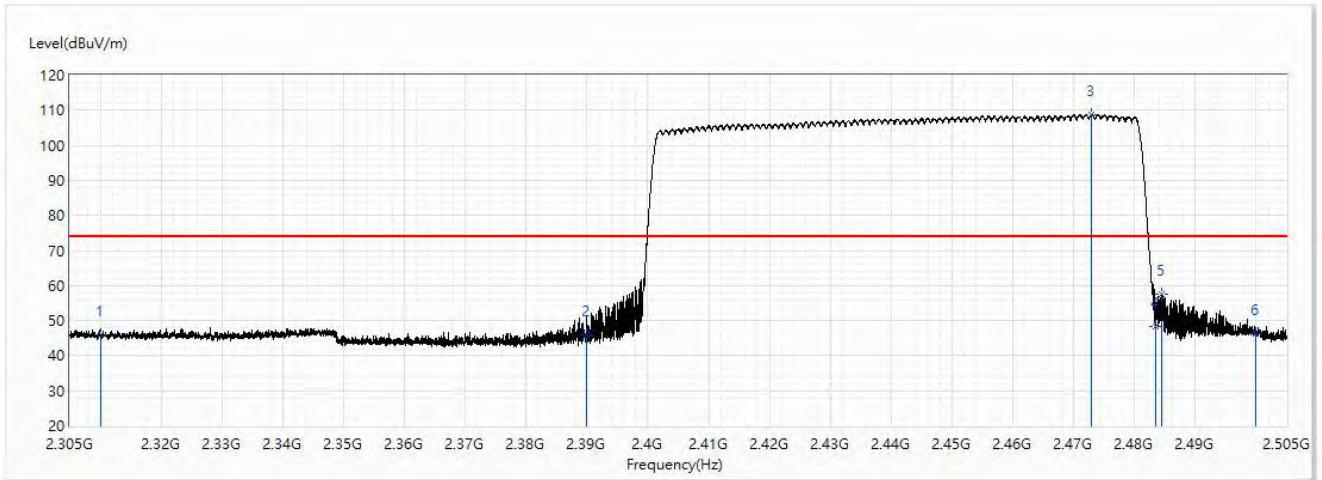


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2310	35.79	54.00	-18.21	24.25	11.54	AV
2	2347.95	39.42	54.00	-14.58	27.66	11.76	AV
3	2390	32.64	54.00	-21.36	20.65	11.99	AV
! 4	2474.025	103.66	54.00	49.66	91.21	12.45	AV
5	2483.5	36.22	54.00	-17.78	23.72	12.50	AV
6	2500	35.97	54.00	-18.03	23.38	12.59	AV

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it's not restricted by unwanted emission limit.

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Horizontal
Test Condition	8DPSK		

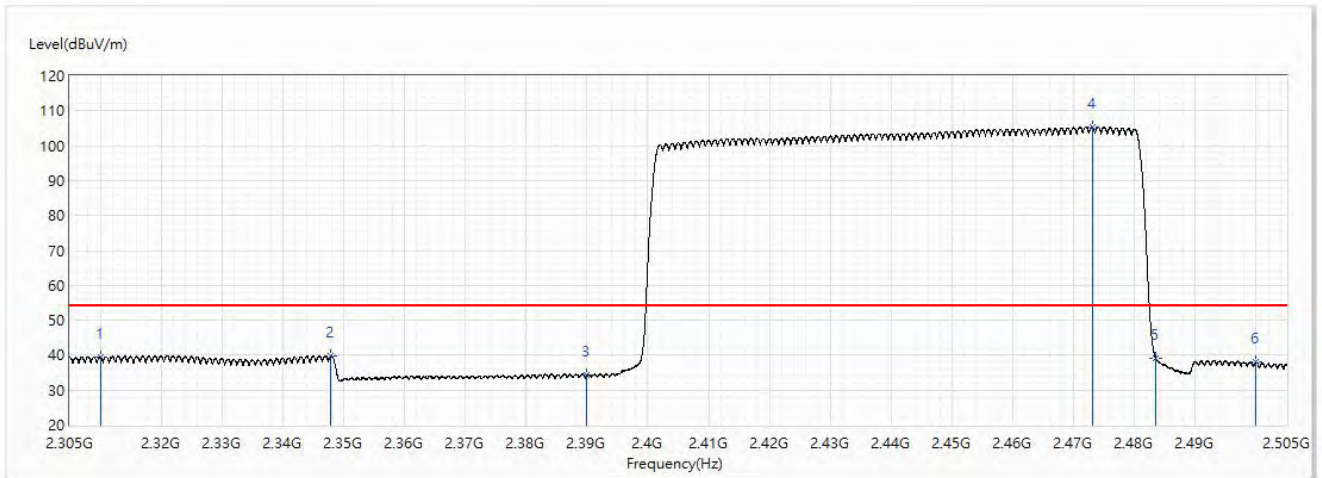


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2310	45.96	74.00	-28.04	34.42	11.54	PK
2	2390	45.84	74.00	-28.16	33.85	11.99	PK
! 3	2473	108.85	74.00	34.85	96.40	12.45	PK
4	2483.5	48.18	74.00	-25.82	35.68	12.50	PK
5	2484.475	57.44	74.00	-16.56	44.94	12.50	PK
6	2500	46.17	74.00	-27.83	33.58	12.59	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it's not restricted by unwanted emission limit.

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Horizontal
Test Condition	8DPSK		

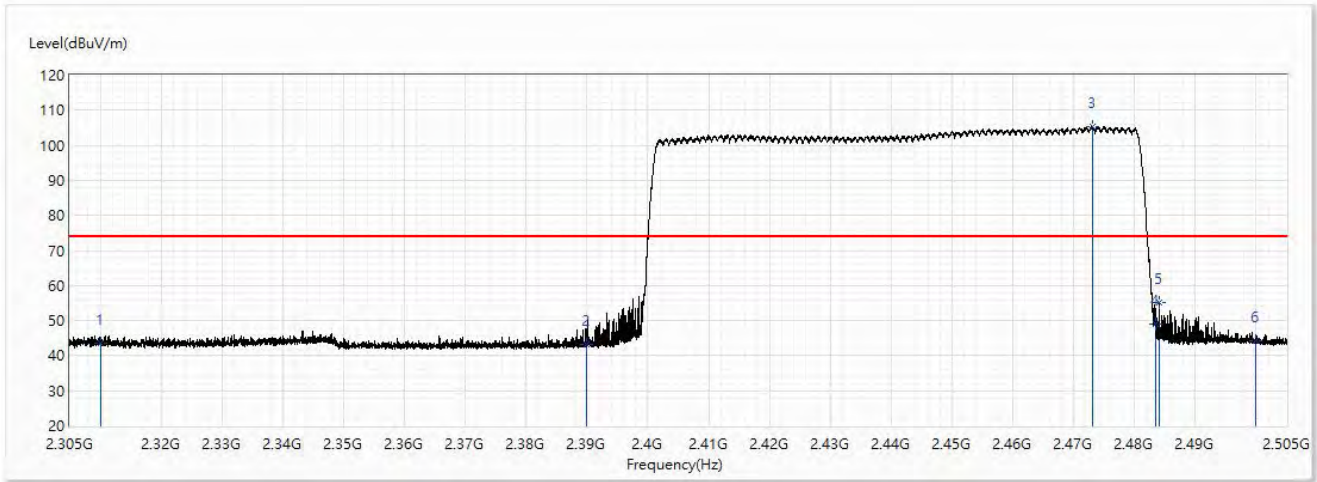


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2310	39.39	54.00	-14.61	27.85	11.54	AV
2	2347.95	39.92	54.00	-14.08	28.16	11.76	AV
3	2390	34.40	54.00	-19.60	22.41	11.99	AV
! 4	2473.025	105.44	54.00	51.44	92.99	12.45	AV
5	2483.5	39.21	54.00	-14.79	26.71	12.50	AV
6	2500	37.93	54.00	-16.07	25.34	12.59	AV

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it's not restricted by unwanted emission limit.

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Vertical
Test Condition	8DPSK		

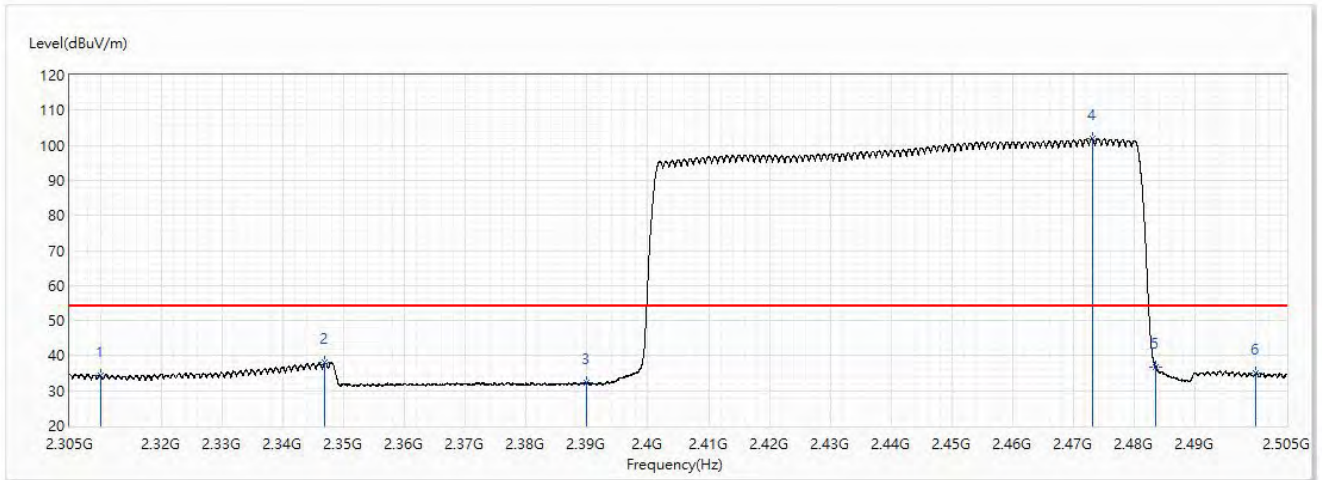


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2310	43.64	74.00	-30.36	32.10	11.54	PK
2	2390	43.15	74.00	-30.85	31.16	11.99	PK
! 3	2473.025	105.33	74.00	31.33	92.88	12.45	PK
4	2483.5	48.85	74.00	-25.15	36.35	12.50	PK
5	2483.975	55.23	74.00	-18.77	42.73	12.50	PK
6	2500	44.19	74.00	-29.81	31.60	12.59	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it's not restricted by unwanted emission limit.

Test Mode	Mode 3: Transmit_ Extension Cover	Polarity	Vertical
Test Condition	8DPSK		



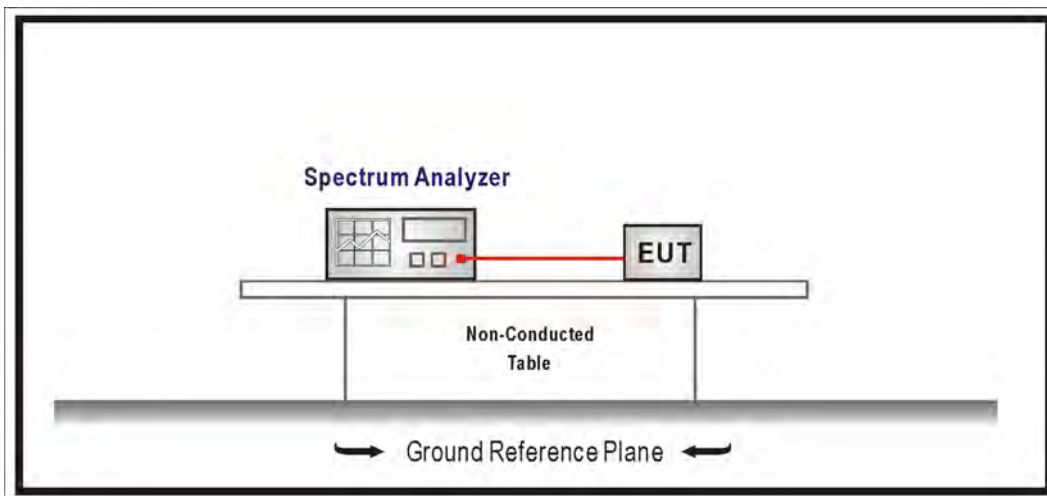
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2310	34.32	54.00	-19.68	22.78	11.54	AV
2	2346.9	37.99	54.00	-16.01	26.25	11.74	AV
3	2390	32.38	54.00	-21.62	20.39	11.99	AV
! 4	2473.025	101.82	54.00	47.82	89.37	12.45	AV
5	2483.5	36.88	54.00	-17.12	24.38	12.50	AV
6	2500	34.86	54.00	-19.14	22.27	12.59	AV

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it's not restricted by unwanted emission limit.

7. Number of Hopping Frequency

7.1. Test Setup



7.2. Test Limit

For frequency hopping systems operating in the 902 ~ 928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

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.

Frequency hopping systems operating in the 5725 ~ 5850 MHz band shall use at least 75 hopping frequencies. The maximum 20 dB bandwidth of the hopping channel is 1 MHz. The average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 30 second period.

7.3. Test Procedures

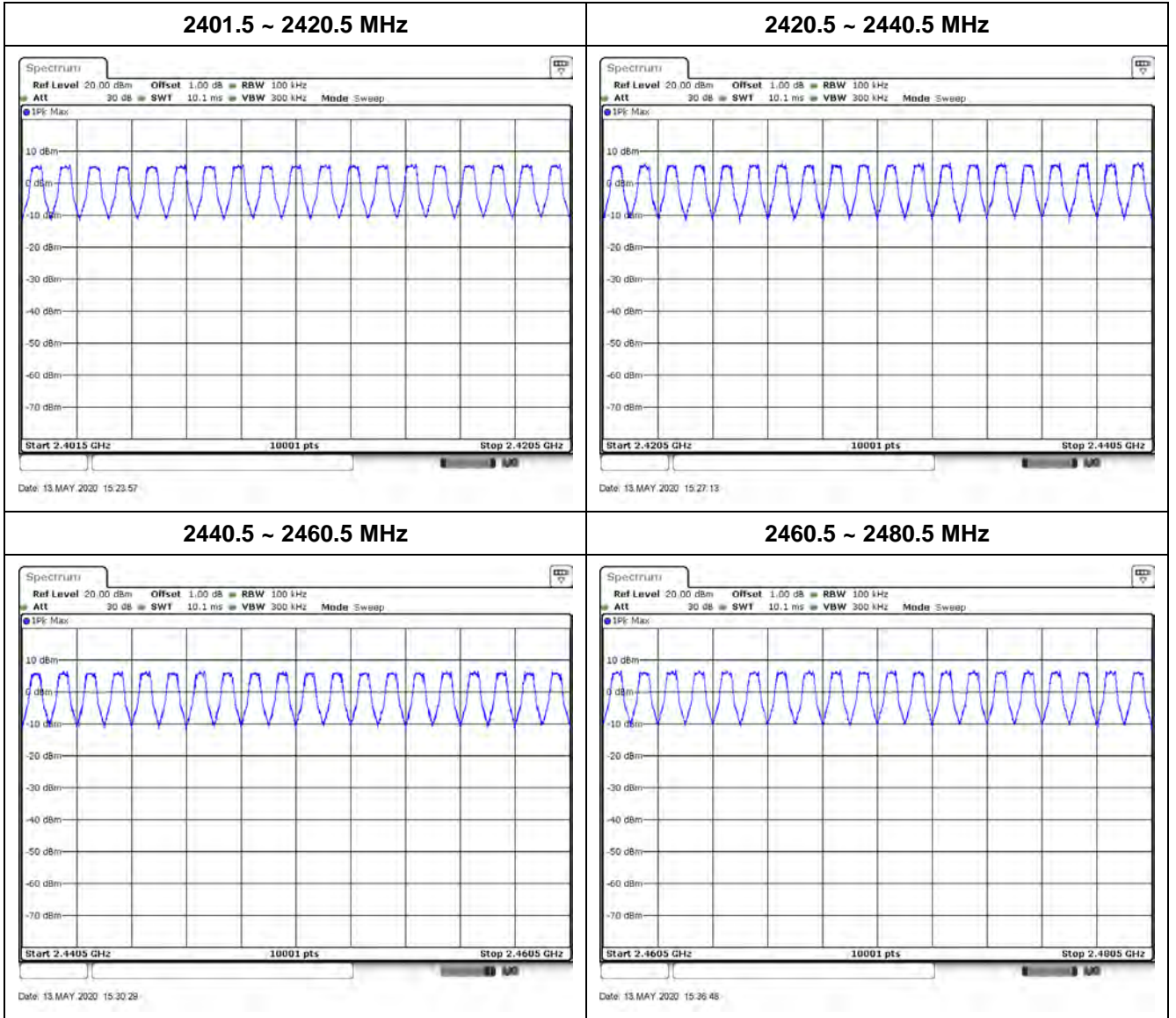
The EUT was setup according to ANSI C63.10: 2013 and tested according to FHSS test procedure of FCC KDB 558074 D01 v05r02 for compliance to FCC 47CFR 15.247 requirements.

7.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247.

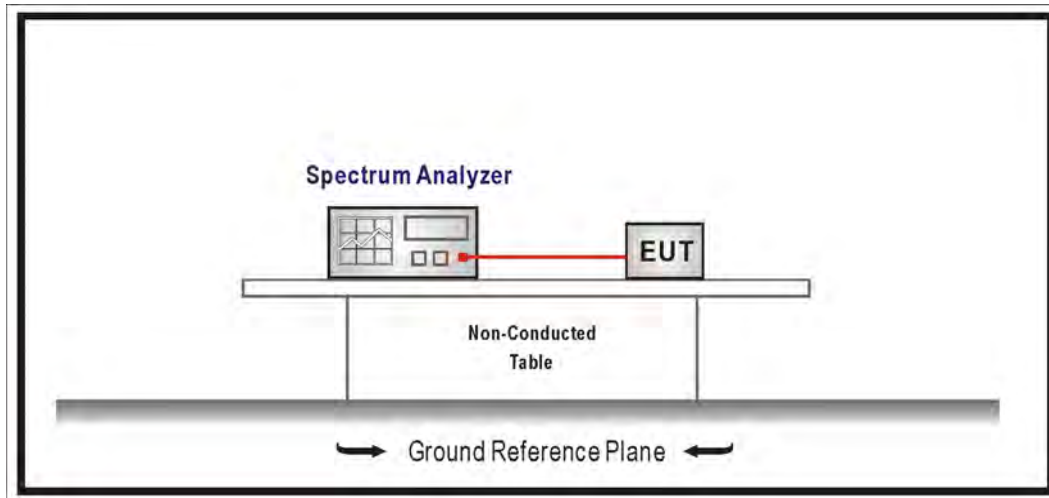
7.5. Test Result of Number of Hopping Frequency

Frequency Range (MHz)	Measure Level (Channels)	Limit (Channels)
2402 ~ 2480	79	≥ 75



8. Carrier Frequency Separation

8.1. Test Setup



8.2. 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 an 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.

8.3. Test Procedures

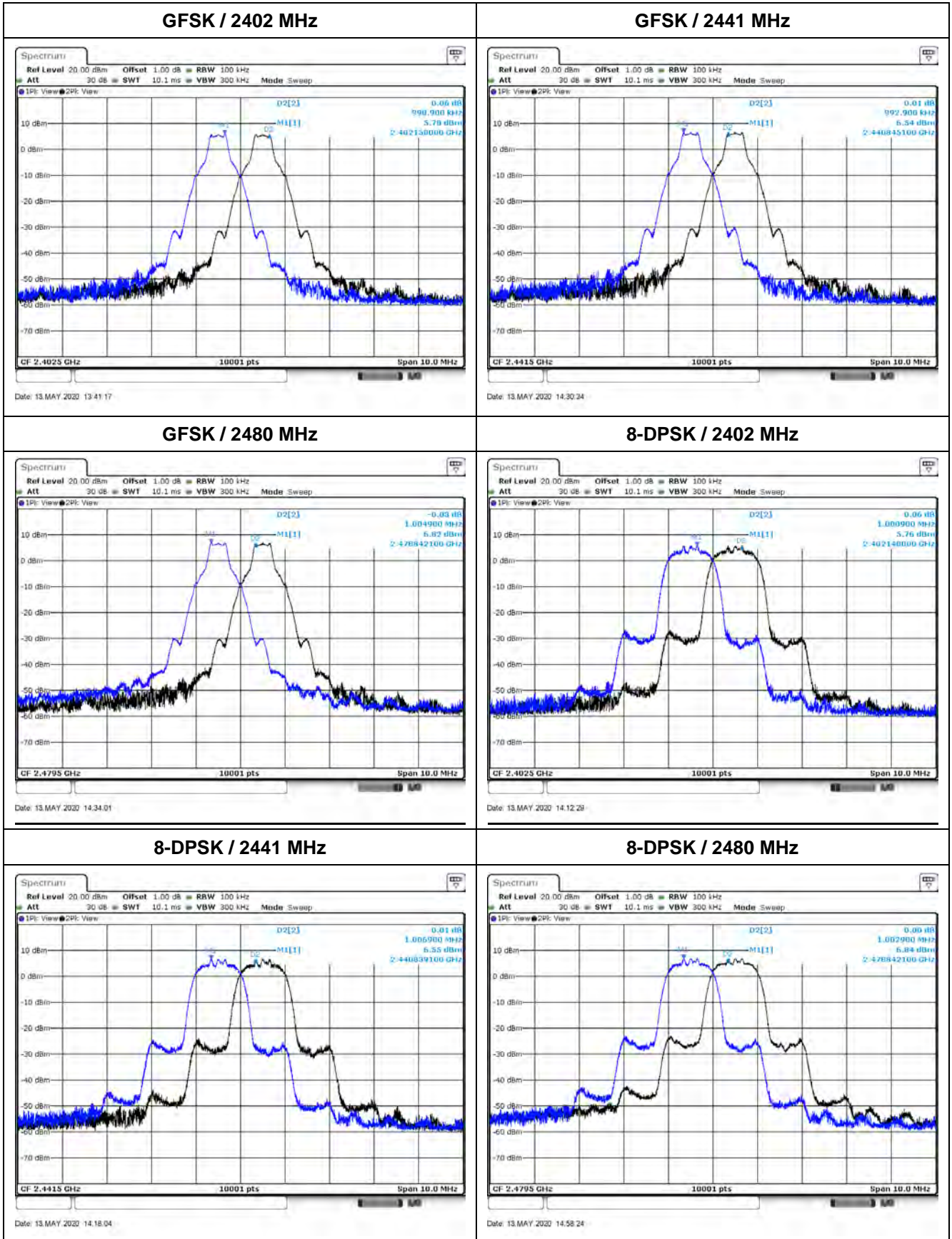
The EUT was setup according to ANSI C63.10: 2013 and tested according to FHSS test procedure of FCC KDB 558074 D01 v05r02 for compliance to FCC 47CFR 15.247 requirements.

8.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247.

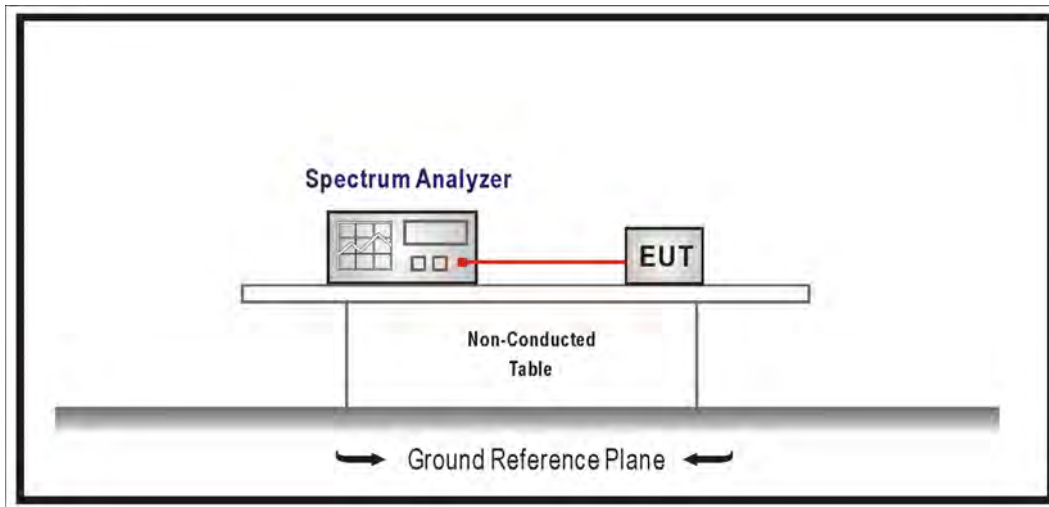
8.5. Test Result of Carrier Frequency Separation

Modulation	Channel	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
GFSK	00	2402	0.998	≥ 0.760	Pass
	39	2441	0.992	≥ 0.760	Pass
	78	2480	1.004	≥ 0.760	Pass
8-DPSK	00	2402	1.000	≥ 0.930	Pass
	39	2441	1.006	≥ 0.930	Pass
	78	2480	1.002	≥ 0.930	Pass



9. 20dB Bandwidth

9.1. Test Setup



9.2. Test Limit

N/A

9.3. Test Procedures

The EUT was setup according to ANSI C63.10: 2013 and tested according to FHSS test procedure of FCC KDB 558074 D01 v05r02 for compliance to FCC 47CFR 15.247 requirements

Use the following spectrum analyzer settings:

Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel

RBW \geq 1% of the 20 dB bandwidth, VBW \geq RBW, Sweep = auto, Detector function = peak, Trace = max hold,

The EUT should be transmitting at its maximum data rate.

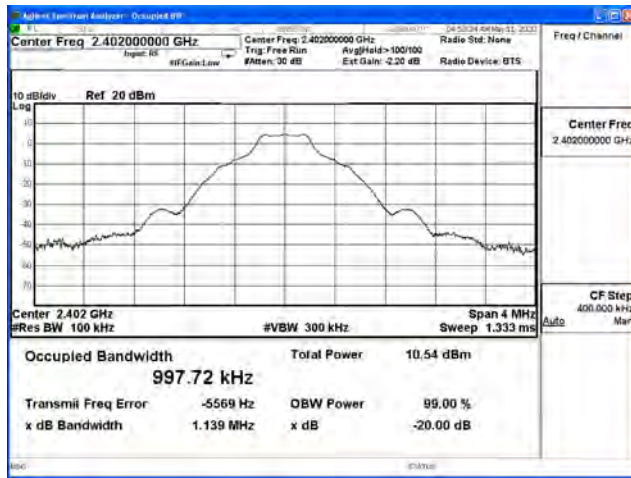
9.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247.

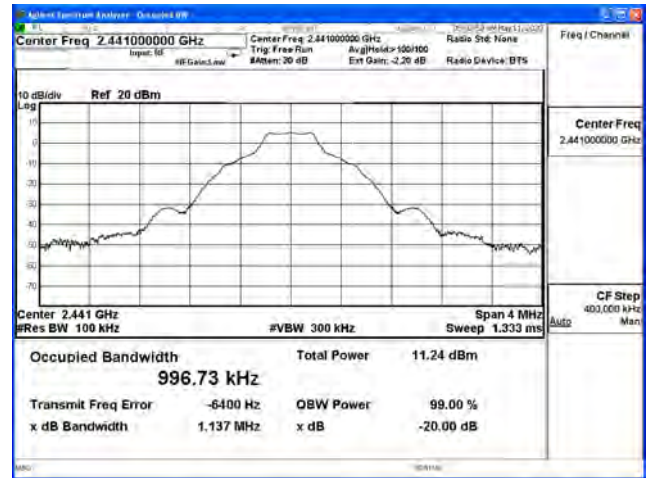
9.5. Test Result of 20dB Bandwidth

Modulation	Channel	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
GFSK	00	2402	1.139	-
	39	2441	1.137	-
	78	2480	1.140	-
8-DPSK	00	2402	1.395	-
	39	2441	1.390	-
	78	2480	1.393	-

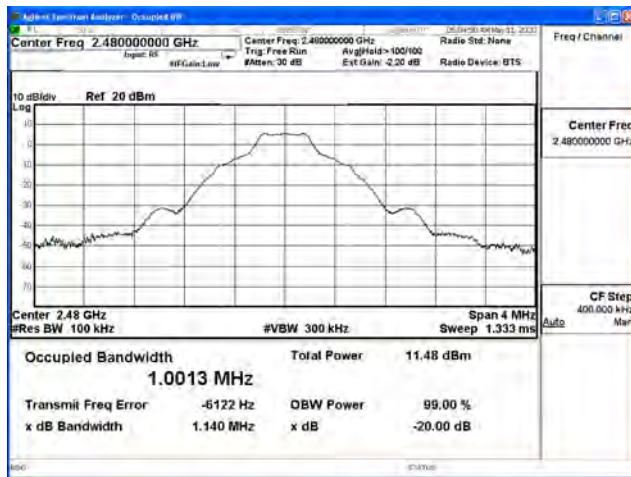
GFSK / 2402 MHz



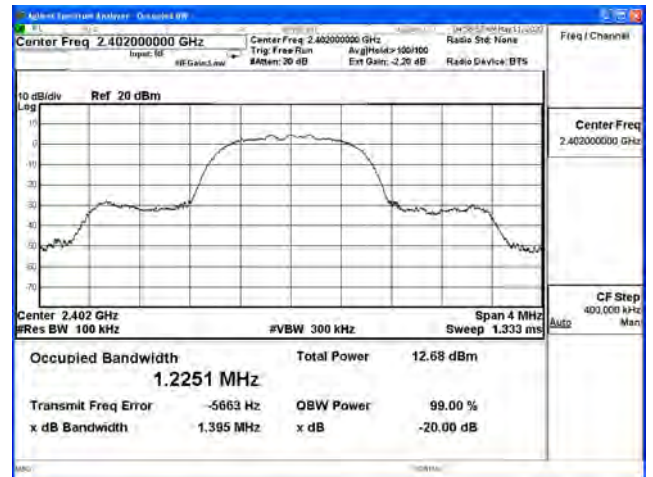
GFSK / 2441 MHz



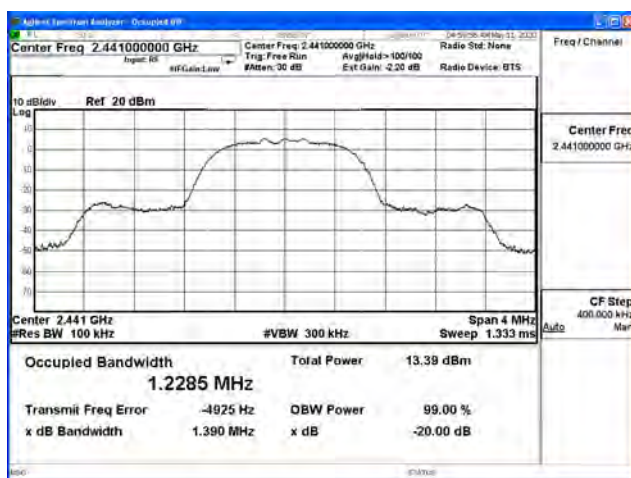
GFSK / 2480 MHz



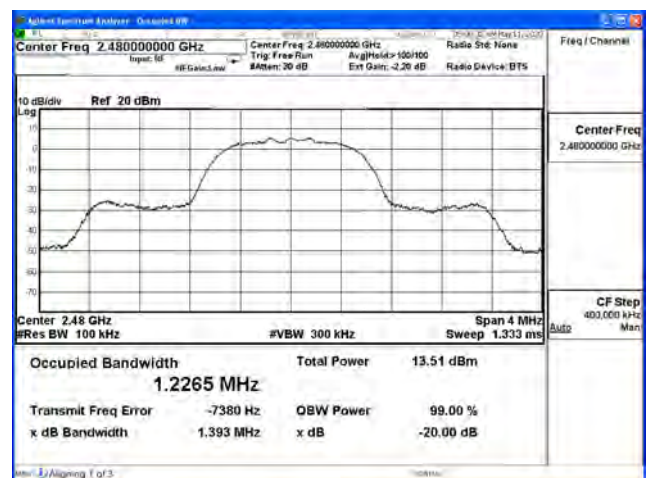
8-DPSK / 2402 MHz



8-DPSK / 2441 MHz

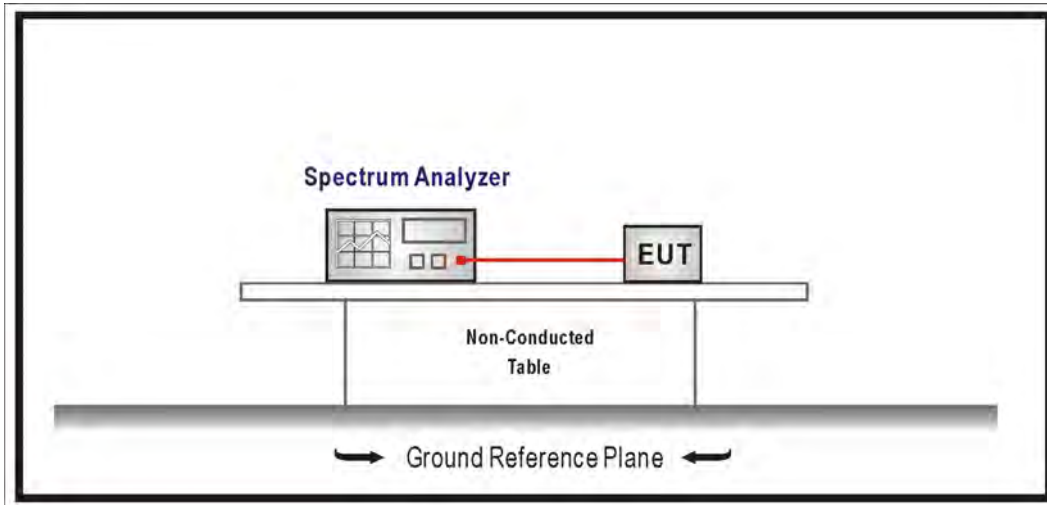


8-DPSK / 2480 MHz



10. Dwell Time

10.1. Test Setup



10.2. Test Limit

For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period.

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.

For frequency hopping systems operating in the 5725-5850 MHz bands. The average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 30 second period.

10.3. Test Procedures

The EUT was setup according to ANSI C63.10: 2013 and tested according to FHSS test procedure of FCC KDB 558074 D01 v05r02 for compliance to FCC 47CFR 15.247 requirements

Span = zero span, centered on a hopping channel, RBW = 1 MHz, VBW \geq RBW,

Sweep = as necessary to capture the entire dwell time per hopping channel,

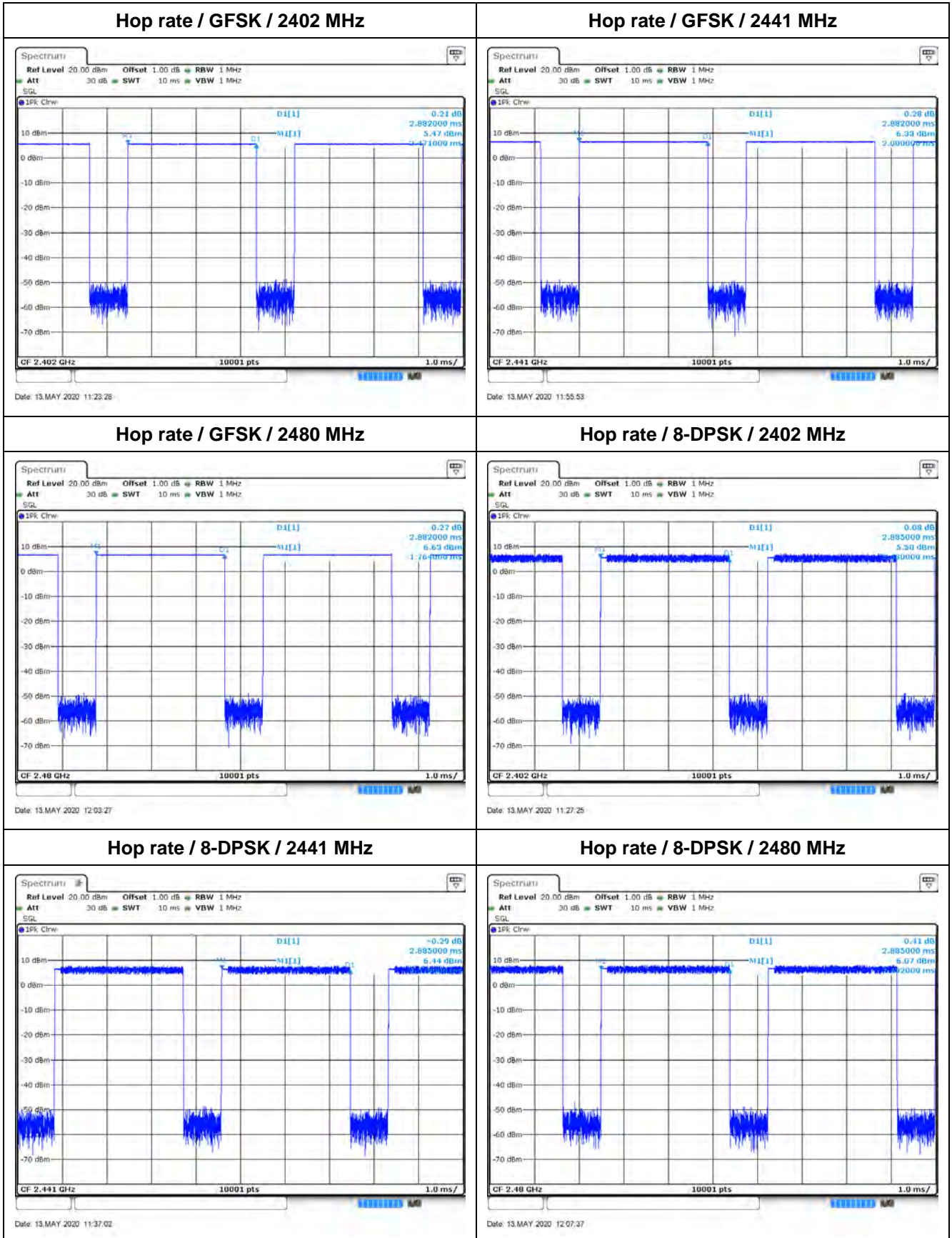
Detector function = peak, Trace = max hold.

10.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247

10.5. 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 : 2.882 ms = 0.002882 sec Dwell Time : $0.002882 \times (266.67/79) \times 31.60 = 0.3074$ sec
	B) 2441 MHz Test Time Period: $0.4 \times 79 = 31.60$ sec, Time slot length : 2.882 ms = 0.002882 sec Dwell Time : $0.002882 \times (266.67/79) \times 31.60 = 0.3074$ sec
	C) 2480 MHz Test Time Period: $0.4 \times 79 = 31.60$ sec, Time slot length : 2.882 ms = 0.002882 sec Dwell Time : $0.002882 \times (266.67/79) \times 31.60 = 0.3074$ sec
	A) 2402 MHz Test Time Period: $0.4 \times 79 = 31.60$ sec, Time slot length : 2.885 ms = 0.002885 sec Dwell Time : $0.002885 \times (266.67/79) \times 31.60 = 0.3077$ sec
	B) 2441 MHz Test Time Period: $0.4 \times 79 = 31.60$ sec, Time slot length : 2.885 ms = 0.002885 sec Dwell Time : $0.002885 \times (266.67/79) \times 31.60 = 0.3077$ sec
	C) 2480 MHz Test Time Period: $0.4 \times 79 = 31.60$ sec, Time slot length : 2.885 ms = 0.002885 sec Dwell Time : $0.002885 \times (266.67/79) \times 31.60 = 0.3077$ sec
Test Result: The Average Occupancy Time of Each Highest, Middle and Lowest Channel Is Less Than 0.4 sec, And Corresponds to The Standard.	



Note: Dwell time = time slot length * hop rate / number of hopping channels * period