

FCC Part 15, Subpart C

Test Report

FCC ID: 2AR2STAT3508

Applicant: MMD Hong Kong Holding Limited

Address: Unit 1006, 10th Floor, C-Bons International Center, 108 Wai Yip Street,
Kwun Tong, Kowloon, Hong Kong

Manufacturer: MMD Hong Kong Holding Limited

Address: Unit 1006, 10th Floor, C-Bons International Center, 108 Wai Yip Street,
Kwun Tong, Kowloon, Hong Kong

Product(s): Active Noise Canceling True wireless headphones

Brand(s): PHILIPS or



Test Model(s): TAT3508

Series Model(s): TAT3508 II, TAT3508xx/yy, TAT3508 II xx/yy (xx=AA-ZZ or blank denoted
different color; yy=00-99 denoted different country destination)

Test Date: Nov. 18, 2022~ Dec. 14, 2022

Issued Date: Jan. 13, 2023

Issued By: Hwa-Hsing (Dongguan) Testing Co., Ltd.

Address: No.101, Bld N1, Yuyuan 2Rd, Yuyuan Industrial Park, HuangJiang Town,
Dongguan, China

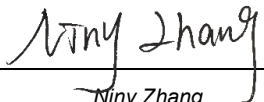
Test Firm Registration No.: 915896

Designation No.: CN1255

Standards: 47 CFR FCC Part 15, Subpart C (Section 15.247)
ANSI C63.10:2013

The above equipment has been tested by **Hwa-Hsing (Dongguan) Testing Co., Ltd.**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

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Release Control Record

Issue No.	Description	Date Issued
221027KH16-RF-US-01	Original Release	Jan. 13, 2023



1 Summary of Test Results

47 CFR FCC Part 15, Subpart C (Section 15.247) KDB 558074 D01 15.247 Meas Guidance v05r02 ANSI C63.10:2013;			
FCC Clause	Test Item	Result	Remarks
15.247(a)(1) (iii)	Number of Hopping Frequency Used	Pass	Meet the requirement of limit.
15.247(a)(1) (iii)	Dwell Time on Each Channel	Pass	Meet the requirement of limit.
15.247(a)(1)	1. Hopping Channel Separation 2. Spectrum Bandwidth of a Frequency Hopping Sequence Spread Spectrum System	Pass	Meet the requirement of limit.
15.247(b)	Maximum Peak Output Power	Pass	Meet the requirement of limit.
---	Occupied Bandwidth Measurement	Pass	Reference only
15.205 & 209	Radiated Emissions	Pass	Meet the requirement of limit.
15.247(d)	Band Edge Measurement	Pass	Meet the requirement of limit.
15.247(d)	Antenna Port Emission	Pass	Meet the requirement of limit.
15.203	Antenna Requirement	Pass	No antenna connector is used.

Note1: If the Frequency Hopping System operating in 2400-2483.5MHz band and the output power less than 125mW. The hopping channel carrier frequencies separated by a minimum of 25kHz or two-thirds of the 20dB bandwidth of hopping channel whichever is greater.

Note2: The EUT has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (sDoC). The test report has been issued separately.

1.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUTs specified in CISPR 16-4-2:

The listed uncertainties are the worst-case uncertainty for the entire range of measurement. Please note that the uncertainty values are provided for informational purposes only and are not used in determining the PASS/FAIL results.

Measurement	Frequency	Expanded Uncertainty (k=2) ($\pm$)
Radiated Emissions up to 1 GHz	9KHz ~ 30MHz	2.16 dB
	30MHz ~ 1000MHz	3.47 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	4.84 dB
	18GHz ~ 40GHz	4.67 dB

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

1.2 Modification Record

There were no modifications required for compliance.



2 General Information

2.1 General Description of EUT

Product(s)	Active Noise Canceling True wireless headphones
Test Model(s)	TAT3508
Sample No.	HS221109-01-09
Series Model(s)	TAT3508 II , TAT3508xx/yy, TAT3508 II xx/yy (xx=AA-ZZ or blank denoted different color; yy=00-99 denoted different country destination)
Status of EUT	Engineering Prototype
Power Supply Rating	Charge case: Input: DC 5V, 500mA from USB or DC 3.7V from battery; Each Headphone: Input: DC 5V 55mA from Charge case
Modulation Type	GFSK, $\pi/4$ DQPSK, 8DPSK for FHSS
Transfer Rate	1Mbps, 2Mbps, 3Mbps
Operating Frequency	2402 ~ 2480MHz
Number of Channel	79
Output Power (Peak)	9.395dBm
Antenna Type	FPC Antenna
Antenna Gain	L: -0.83dBi R: -0.85dBi
Antenna Connector	N/A
Accessory Device	N/A

Note:

1. Please refer to the EUT photo document (Reference No.:221027KH16-01&02) for detailed product photo.
2. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.
3. All models are identical except model name, color and country destination for marketing purpose.
4. The left and right earphone circuit motherboards are basically symmetrical. Only the test items evaluate the Radiated emission (30MHz-1000MHz) of the two in-ear headphones, and the other test items only evaluate the left in-ear headphones.



2.2 Description of Test Modes

79 channels are provided to this EUT:

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
0	2402	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461	–	–

**2.3 Test Mode Applicability and Tested Channel Detail**

EUT Configure Mode	Applicable test items	X-Axis	Y-Axis	Z-Axis	Voltage Supply
Conducted	AC Power Conducted Emission	N/A	N/A	N/A	DC 3.7V from battery
Radiated	Radiated Emissions	√	√	√	
Antenna Port Conducted Measurement	Number of Hopping Frequency Used	N/A	N/A	N/A	
	Dwell Time on Each Channel	N/A	N/A	N/A	
	Band Edge Measurement	N/A	N/A	N/A	
	Antenna Port Emission	N/A	N/A	N/A	
	Conducted power	N/A	N/A	N/A	
	Hopping Channel Separation	N/A	N/A	N/A	
	Spectrum Bandwidth of a Frequency Hopping Sequence Spread Spectrum System	N/A	N/A	N/A	
1. *: The EUT had been pre-tested on the positioned of each 3 Axis. The worst case was found when positioned on X-plane .					
2. “N/A” means no effect.					

Evaluation of difference data rate:

Applicable test items	Modulation Type			The Worst-case modes recording in report
	GFSK	$\pi/4$ DQPSK	8DPSK	
Radiated Emissions	√	√	√	GFSK& 8DPSK
Antenna Port Conducted Measurement	√	√	√	GFSK& 8DPSK

Test Condition:

Applicable test items	Environmental Conditions	Test Date	Tested by
Radiated Emissions	25.6deg. C, 59%RH	Nov. 25, 2022	Jim Xu
Antenna Port Conducted Measurement	25.2deg. C, 59%RH	Nov. 24, 2022	Dragon Long

- 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). Following channel(s) was (were) selected for the final test as listed below.



Radiated Emission Test (Above 1 GHz):

EUT Configure Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Packet Type
-	0 to 78	0, 39, 78	FHSS	GFSK	DH5
-	0 to 78	0, 39, 78	FHSS	8DPSK	3DH5

Radiated Emission Test (Below 1 GHz):

EUT Configure Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Packet Type
-	0 to 78	78	FHSS	GFSK	DH5
-	0 to 78	78	FHSS	8DPSK	3DH5

Power Line Conducted Emission Test:

EUT Configure Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Packet Type
-	0 to 78	39	FHSS	GFSK	DH5

Antenna Port Conducted Measurement:

- ☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Packet Type
-	0 to 78	0, 39, 78	FHSS	GFSK	DH5
-	0 to 78	0, 39, 78	FHSS	8DPSK	3DH5



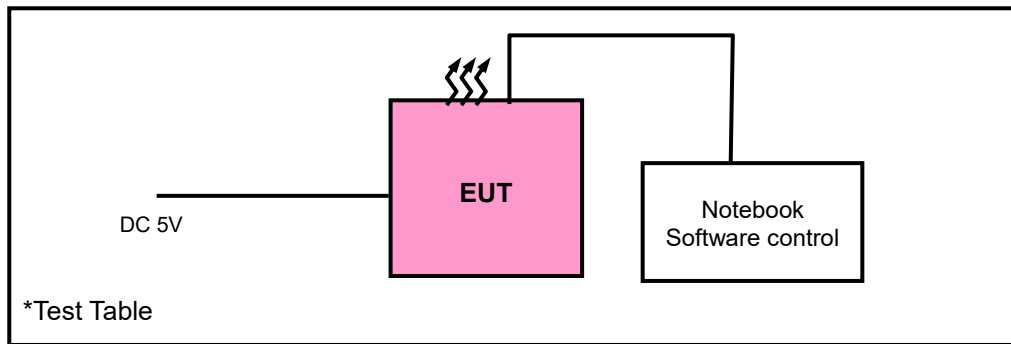
2.4 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

No.	Product	Brand	Model No.	Serial No.	FCC ID
1.	Notebook	DELL	Latitude 5300	N/A	N/A

No.	Signal Cable Description of The Above Support Units
1.	USB serial cable Un-shielded1.2m
2.	/

2.4.1 Configuration of System under Test





3 Test Types and Results

3.1 Radiated Emission and Band-edge Measurement

3.1.1 Limits of Radiated Emission and Band-edge Measurement

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20 dB below the highest level of the desired power:

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

* DTS emissions in non-restricted frequency bands Subclause 11.11 of ANSI C63.10 is applicable.

* DTS emissions in restricted frequency bands Subclause 11.12 of ANSI C63.10 is applicable

Note:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.



3.1.2 Test Instruments

Radiated emission below 30MHz:

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR7	100962	2023-01-13
3m Semi-anechoic Chamber	MAORUI	9m*6m*6m	NSEMC003	2023-04-15*
Test software	FARAD	FARAD	EZ_EMCV1.1.4.2	N/A
Loop Antenna	EMCI	HLA 6121	56735	2023-04-15*
Preamplifier	EMCI	EMC001340	980201	2023-01-12
Antenna Tower	MF	MFA-440H	NA	NA
Turn Table	MF	MFT-201SS	NA	NA
Antenna Tower&Turn Table Controller	MF	MF-7802	NA	NA

Frequency Range below 1GHz:

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
3m Semi-anechoic Chamber	MAORUI	9m*6m*6m	NSEMC003	2023-01-13
EMI Test Receiver	Rohde&Schwarz	ESR7	100962	2023-01-13
Broadband antenna	Schwarzbeck	VULB 9168	00937	2023-04-15*
Signal Amplifier	Com-power	PAM-103	18020051	2023-08-25
Attenuator	Rohde&Schwarz	TS2GA-6dB	18101101	N/A
Test software	FARAD	FARAD	EZ_EMCV1.1.4.2	N/A

Frequency Range 1-18GHz:

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
3m Semi-anechoic Chamber	MAORUI	9m*6m*6m	NSEMC003	2023-04-15*
Horn Antenna	Schwarzbeck	BBHA 9120D	01959	2024-05-04*
Broadband Coaxial Preamplifier	Com-power	PAM-118A	1804003	2023-08-25
Spectrum	Keysight	N9020A	MY51240612	2023-08-25
Antenna Tower	MF	MFA-440H	NA	NA
Turn Table	MF	MFT-201SS	NA	NA
Antenna Tower&Turn Table Controller	MF	MF-7802	NA	NA

Frequency Range 18-40GHz:

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
3m Semi-anechoic Chamber	MAORUI	9m*6m*6m	NSEMC003	2023-04-15*
Spectrum Analyzer	Rohde&Schwarz	FSV-40N	101783	2023-01-13
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170242	2023-04-10*
Pre-Amplifier	EMCI	EMC 184045	980102	2023-01-12
Antenna Tower	MF	MFA-440H	NA	NA
Turn Table	MF	MFT-201SS	NA	NA
Antenna Tower&Turn Table Controller	MF	MF-7802	NA	NA

Note:

1. The calibration interval of the above test instruments is 12 months or 24 months (*).
2. The test was performed in 966



3.1.3 Test Procedures

a. Peak emission levels are measured by setting the instrument as follow:

- 1) RBW&VBW setting as a function of frequency:

Frequency	RBW	VBW
9kHz~150kHz	200Hz	600Hz
0.15MHz~30MHz	9kHz	30kHz
30MHz~1000MHz	120kHz	300kHz
>1000MHz	1MHz	3MHz

- 2) Detector = peak.
3) Sweep time = auto.
4) Trace mode = max hold.
5) Allow sweeps to continue until the trace stabilizes. (Note that the required measurement time may be lengthened for low-duty-cycle applications.)

Note: If the peak-detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement

b. Average emission levels are measured by setting the instrument as follow:

● Trace averaging with continuous EUT transmission at full power

If the EUT can be configured or modified to transmit continuously ($D \geq 98\%$), then the average emission levels shall be measured using the following method (with EUT transmitting continuously):

- 1) RBW=1 MHz (unless otherwise specified).
- 2) $VBW \geq 3 * RBW$.
- 3) Detector =RMS
- 4) Sweep time = auto.
- 5) Perform a trace average of at least 100 traces.

● Trace averaging across ON and OFF times of the EUT transmissions followed by duty cycle correction

If continuous transmission of the EUT ($D \geq 98\%$) cannot be achieved and the duty cycle is constant (duty cycle variations are less than $\pm 2\%$), then the following procedure shall be used

- 1) The EUT shall be configured to operate at the maximum achievable duty cycle.
- 2) Measure the duty cycle D of the transmitter output signal as described in 11.6.
- 3) RBW=1 MHz (unless otherwise specified).
- 4) $VBW \geq 3 * RBW$.
- 5) Detector =RMS
- 6) Sweep time = auto.
- 7) Perform a trace average of at least 100 traces.

A correction factor shall be added to the measurement results prior to comparing with the emission limit to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:

*If power averaging (rms) mode was used in step 5), then the applicable correction factor is $[10 \log (1/D)]$, where D is the duty cycle.

**If linear voltage averaging mode was used in step f), then the applicable correction factor is $[20 \log (1/D)]$, where D is the duty cycle.

***If a specific emission is demonstrated to be continuous ($D > 98\%$) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that



● **Reduced VBW Averaging across ON and OFF times of the EUT transmissions with max hold**

If continuous transmission of the EUT ($D > 98\%$) cannot be achieved and the duty cycle is not constant (duty cycle variations exceed $\pm 2\%$), then the following procedure shall be used:

- 1) RBW = 1 MHz.
 - 2) $VBW \geq 1/T$.
 - 3) Detector = peak
 - 4) Sweep time = auto.
 - 5) Trace mode = max hold.
 - 6) Allow max hold to run for at least $[50 \times (1/D)]$ traces
- c. The EUT was placed on the top of a rotating table 0.8 meters (below 1GHz) / 1.5 meters (1-18GHz) / 1.5 meters (18-40GHz) above the reference ground. The table was rotated 360 degrees to determine the position of the highest radiation.
- d. The EUT was set 3 meters away from the interference-receiving antenna (Below 1GHz) & (Above 1-18GHz), which was mounted on the top of a variable-height antenna tower. The EUT was set 1 meters away from the interference-receiving antenna (18-40GHz).
- e. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- f. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- g. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

The test-receiver system was set to peak and average detected function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

1. Test procedures for measuring FHSS device: The use of a duty cycle correction factor (DCCF) is permitted for calculating average radiated field strength emission levels for an FHSS device in 15.247. This DCCF can be applied when the unwanted emission limit is subject to an average field strength limit (e.g., within a Government Restricted band) and the conditions specified in Section 15.35(c) can be satisfied. The average radiated field strength is calculated by subtracting the DCCF from the maximum radiated field strength level as determined through measurement. The maximum radiated field strength level represents the worst-case (maximum amplitude) RMS measurement of the emission(s) during continuous transmission (i.e., not including any time intervals during which the transmitter is off or is transmitting at a reduced power level). It is also acceptable to apply the DCCF to a measurement performed with a peak detector instead of the specified RMS power averaging detector. Note that Section 15.35(c) specifies that the DCCF shall represent the worst-case (greatest duty cycle) over any 100 msec transmission period. Subclause 7.5 of ANSI C63.10 provides additional measurement guidance applicable to determination of the DCCF.
2. All modes of operation were investigated and the worst-case emissions are reported.

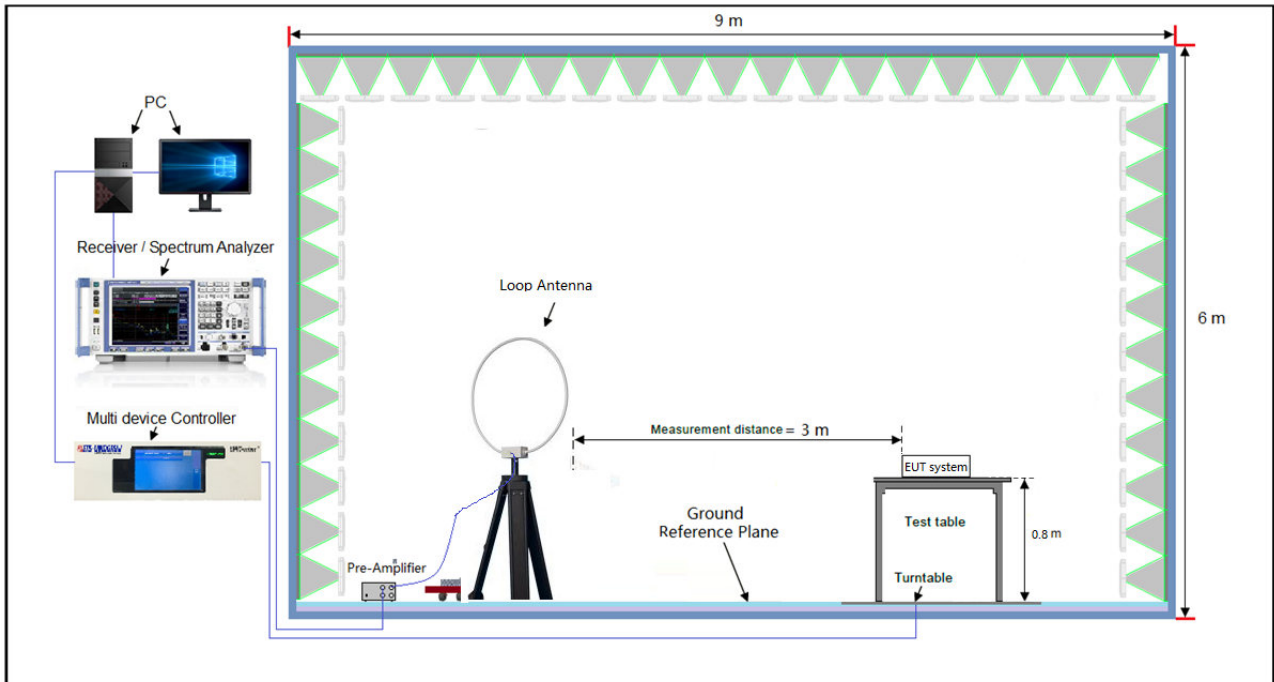
3.1.4 Deviation from Test Standard

No deviation.

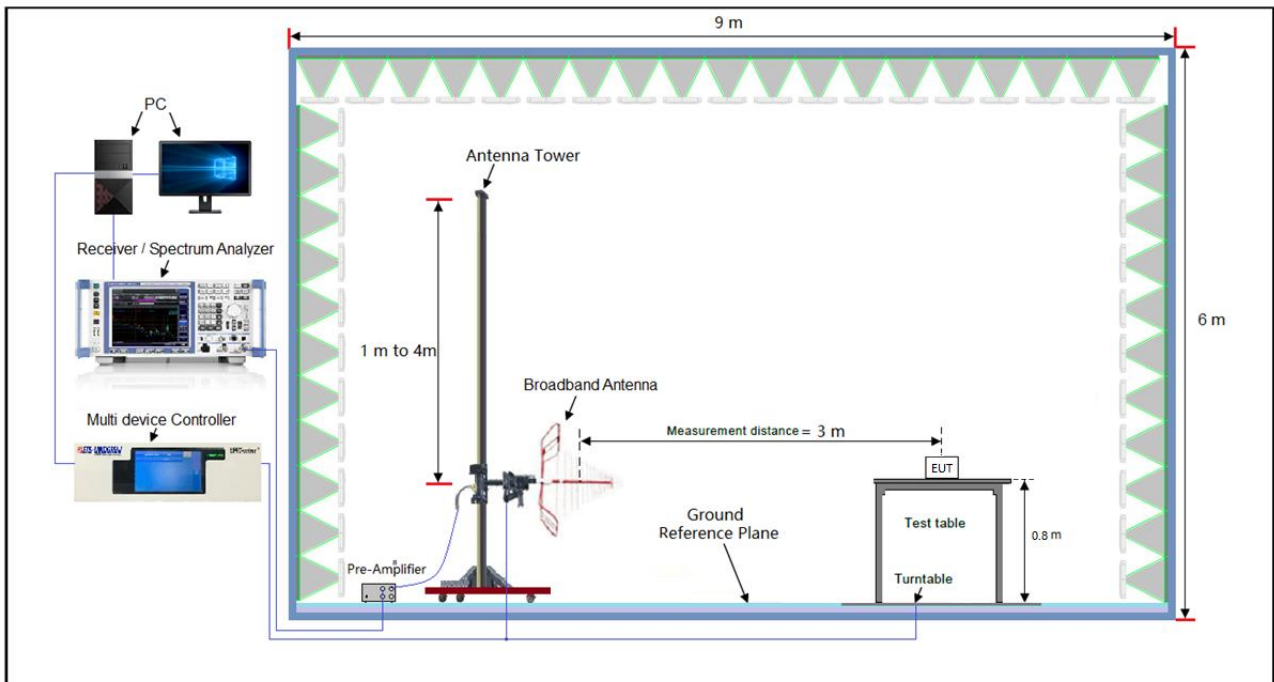


3.1.5 Test Setup

Radiated emission below 30MHz:

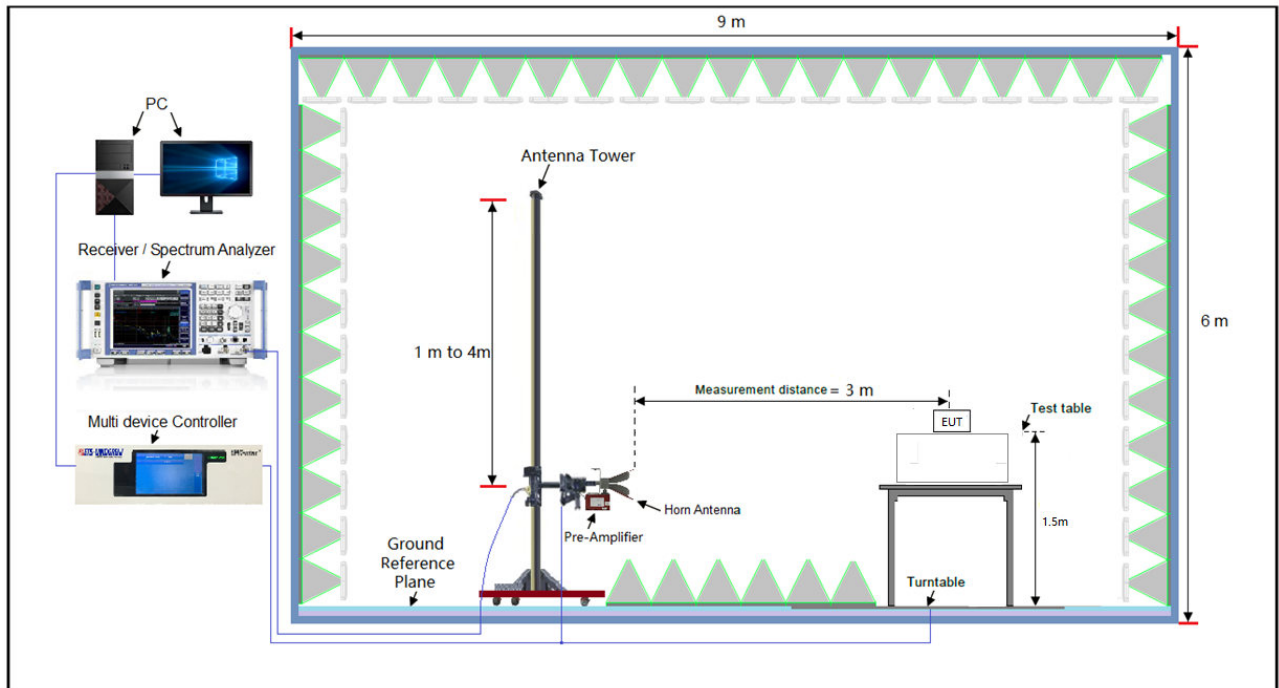


Frequency Range below 1GHz:

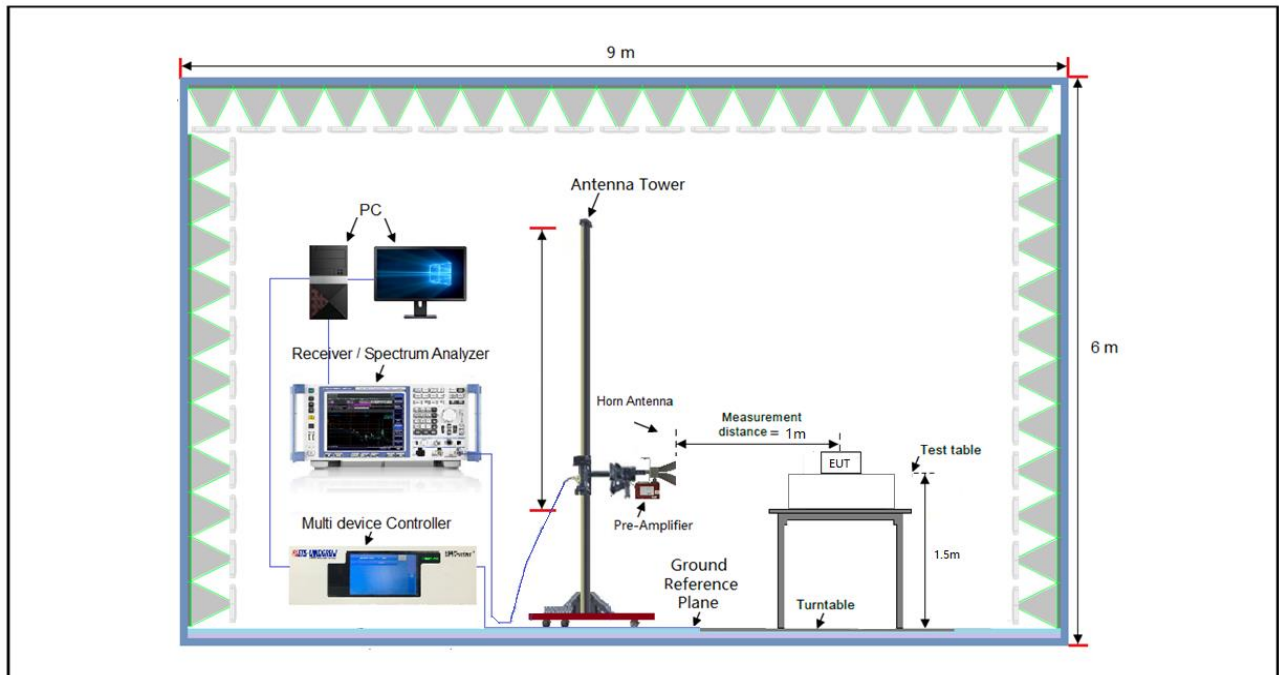




Frequency Range above 1GHz:



Frequency Range 18-40GHz:



*For the actual test configuration, please refer to the attached file (Test Setup Photo).

3.1.6 EUT Operating Conditions

Set the EUT under transmission condition continuously at specific channel frequency.



3.1.7 Test Results

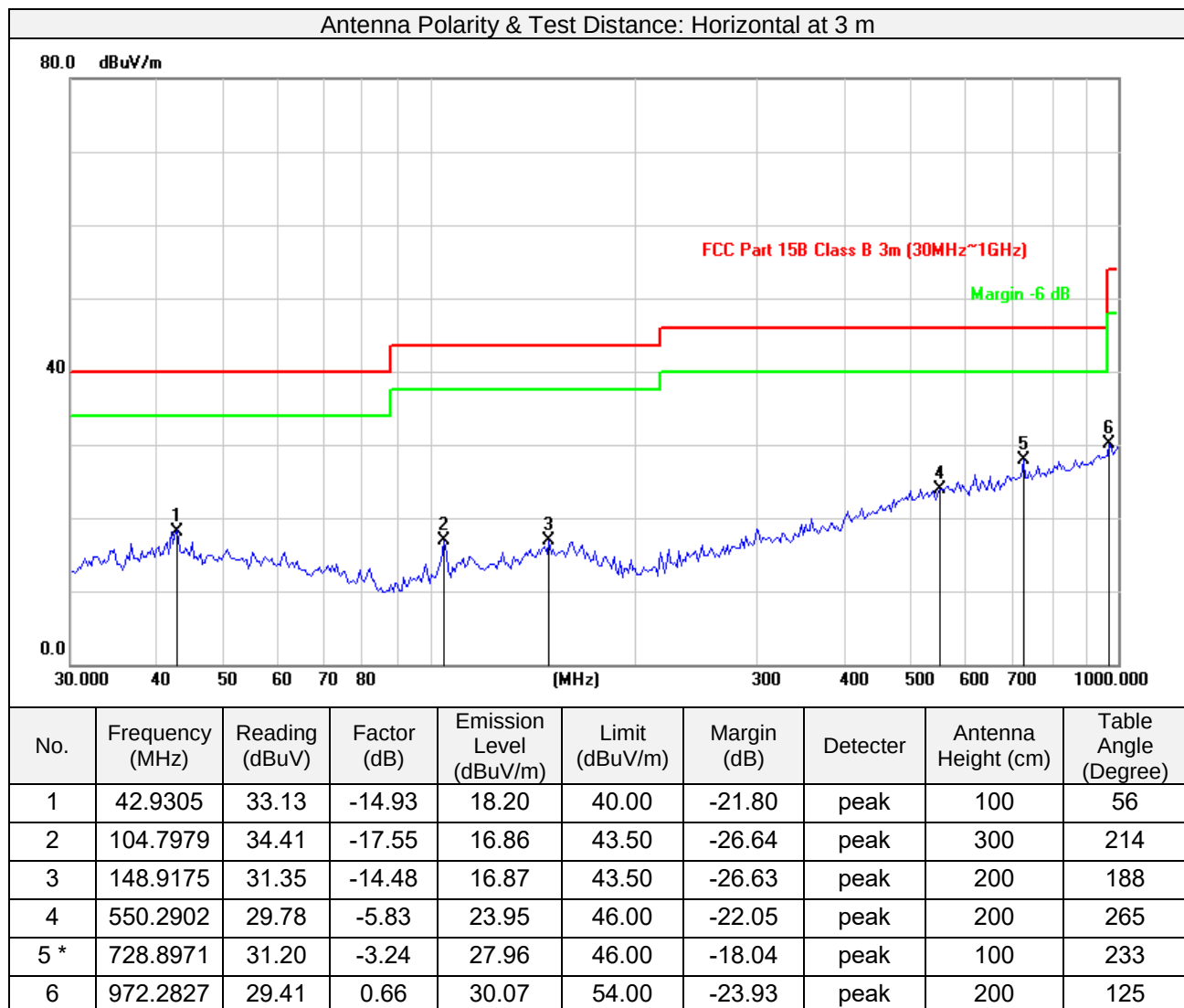
9 kHz ~ 30 MHz Data:

The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

Left

30 MHz ~ 1GHz Worst-Case Data:

Frequency Range	30MHz ~ 1GHz	Detector Function	Peak (PK) Quasi-peak (QP)
Test Channel	Channel 78		



Remarks:

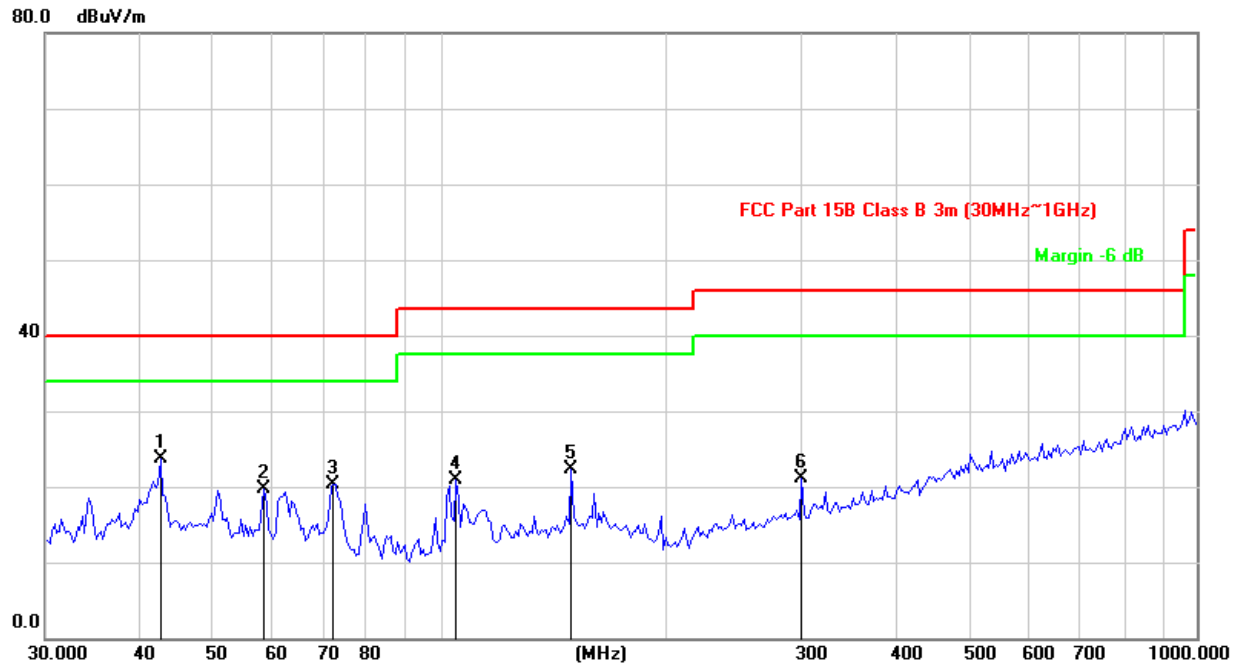
1.Emission Level = Read Level + Factor (Antenna Factor + Cable Loss - Preamplifier Factor)

2.Margin value = Emission level – Limit value



Frequency Range	30MHz ~ 1GHz	Detector Function	Peak (PK) Quasi-peak (QP)
Test Channel	Channel 78		

Antenna Polarity & Test Distance: Vertical at 3 m



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Height (cm)	Table Angle (Degree)
1 *	42.6299	38.66	-14.92	23.74	40.00	-16.26	peak	100	265
2	58.4855	35.65	-16.00	19.65	40.00	-20.35	peak	200	310
3	72.2111	38.04	-17.68	20.36	40.00	-19.64	peak	100	155
4	104.7979	38.52	-17.55	20.97	43.50	-22.53	peak	300	210
5	148.9175	36.85	-14.48	22.37	43.50	-21.13	peak	200	133
6	300.6988	34.07	-12.98	21.09	46.00	-24.91	peak	100	211

Remarks:

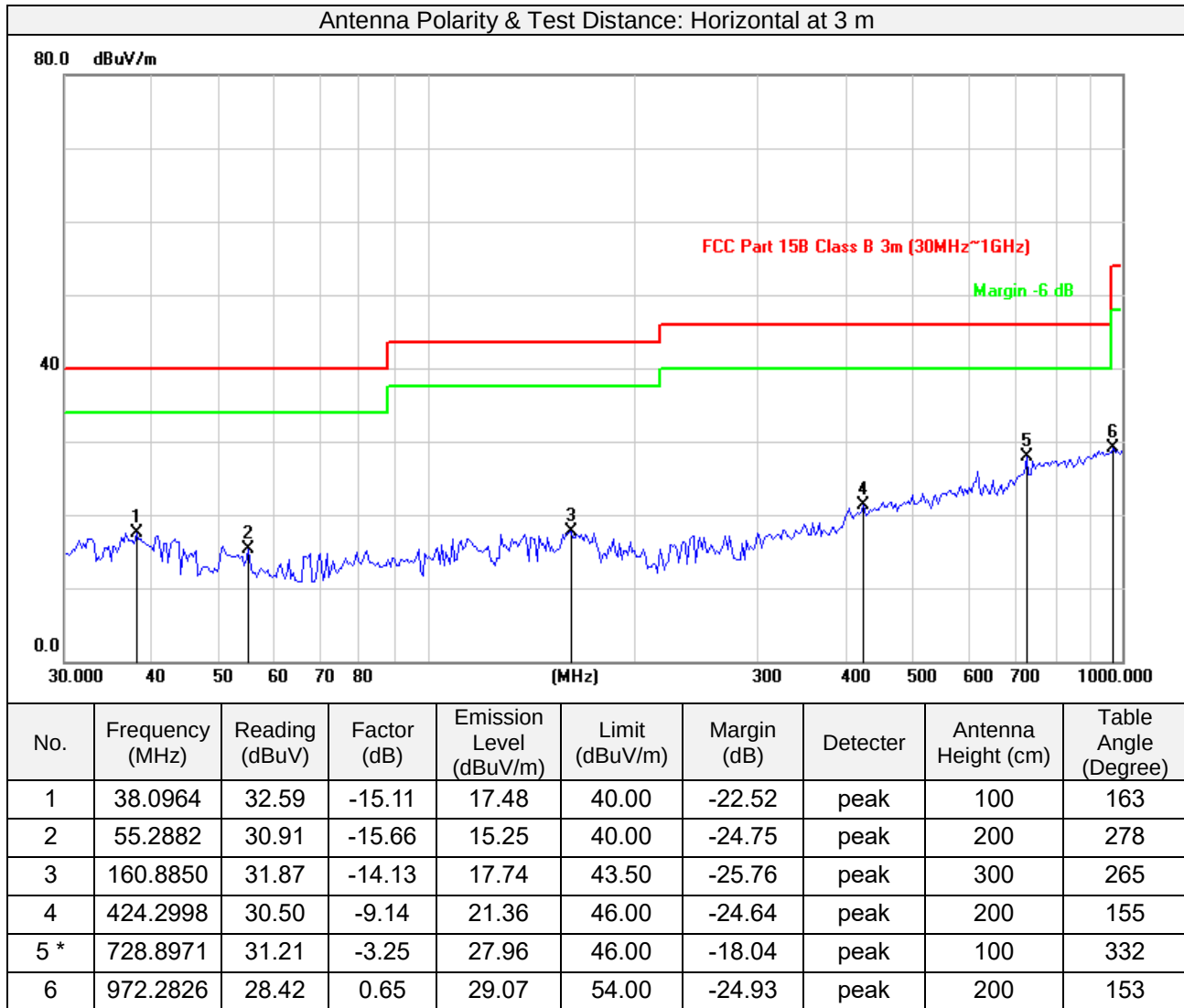
1. Emission Level = Read Level + Factor (Antenna Factor + Cable Loss - Preamp Factor)
2. Margin value = Emission level – Limit value



Right

30 MHz ~ 1GHz Worst-Case Data:

Frequency Range	30MHz ~ 1GHz	Detector Function	Peak (PK) Quasi-peak (QP)
Test Channel	Channel 78		



Remarks:

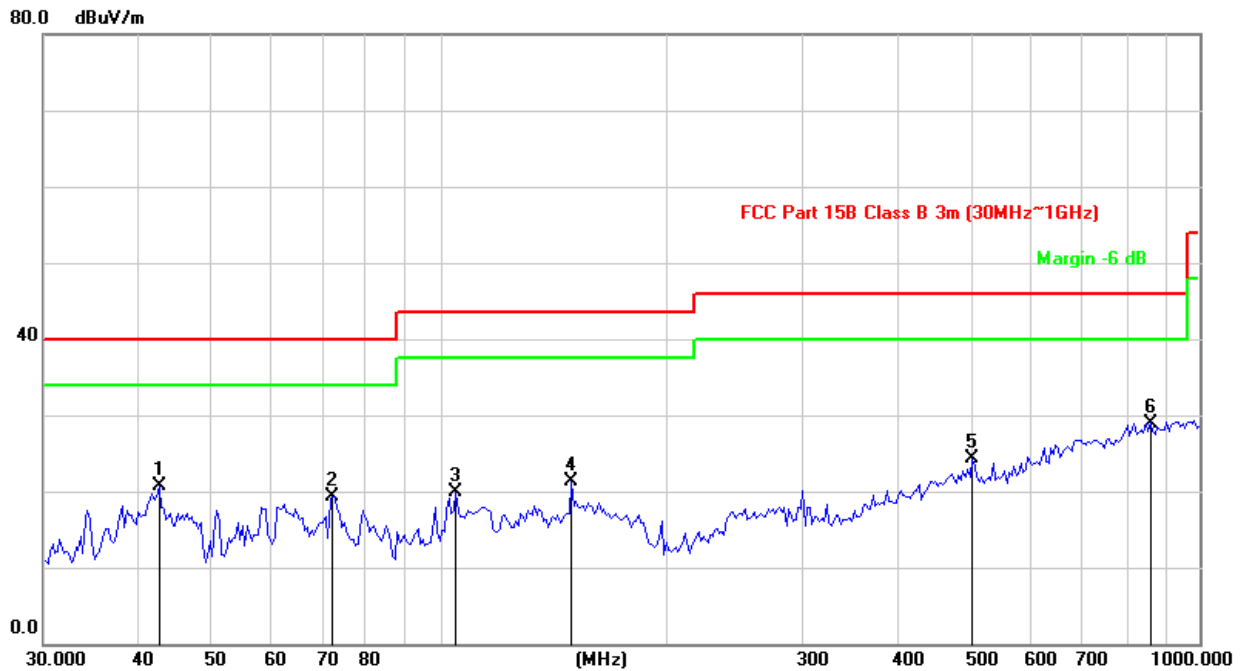
1.Emission Level = Read Level + Factor (Antenna Factor + Cable Loss - Preamp Factor)

2.Margin value = Emission level – Limit value



Frequency Range	30MHz ~ 1GHz	Detector Function	Peak (PK) Quasi-peak (QP)
Test Channel	Channel 78		

Antenna Polarity & Test Distance: Vertical at 3 m



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Height (cm)	Table Angle (Degree)
1	42.6298	35.66	-14.92	20.74	40.00	-19.26	peak	100	255
2	72.2111	37.04	-17.68	19.36	40.00	-20.64	peak	200	123
3	104.7977	37.52	-17.55	19.97	43.50	-23.53	peak	300	216
4	148.9173	35.85	-14.48	21.37	43.50	-22.13	peak	200	265
5	502.2472	30.82	-6.61	24.21	46.00	-21.79	peak	100	233
6 *	862.8015	30.29	-1.29	29.00	46.00	-17.00	peak	200	125

Remarks:

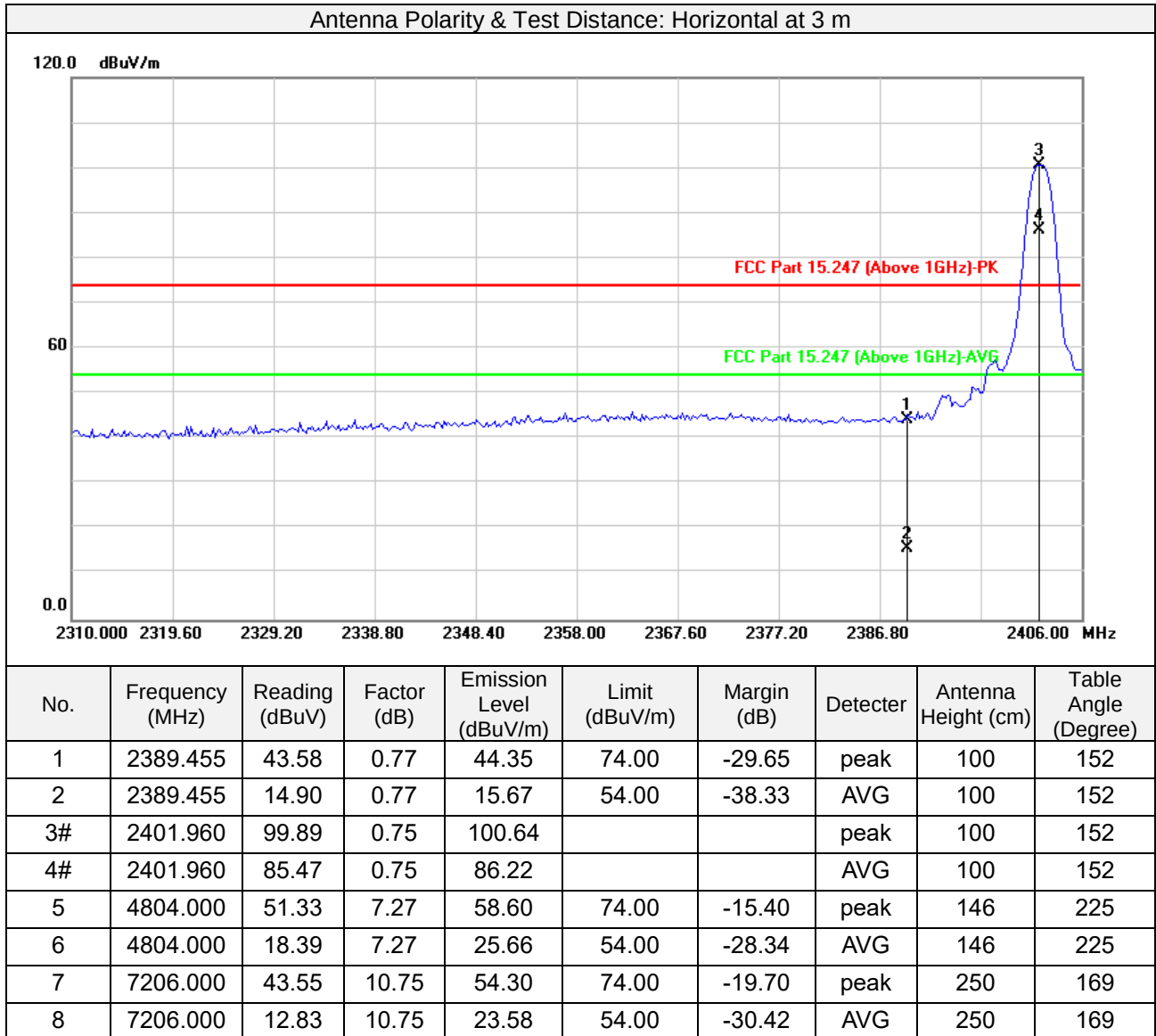
- 1.Emission Level = Read Level + Factor (Antenna Factor + Cable Loss - Preamp Factor)
2. Margin value = Emission level – Limit value



Above 1GHz Data:

GFSK

Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AVG)
Test Channel	Channel 0		



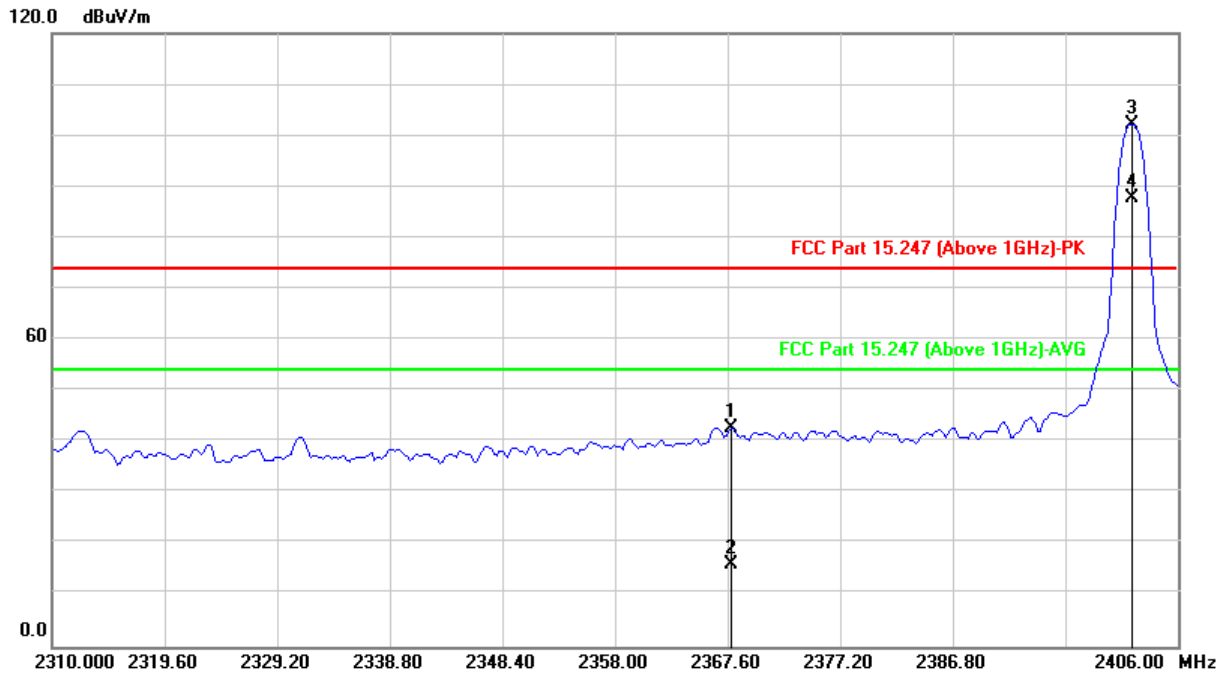
Remarks:

- Emission Level = Read Level + Factor (Antenna Factor + Cable Loss - Preamp Factor)
Margin value = Emission level – Limit value
- #2402MHz: Fundamental frequency.
- The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.



Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AVG)
Test Channel	Channel 0		

Antenna Polarity & Test Distance: Vertical at 3 m



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Height (cm)	Table Angle (Degree)
1	2367.908	41.89	0.79	42.68	74.00	-31.32	peak	342	9
2	2367.908	15.26	0.79	16.05	54.00	-37.95	AVG	342	9
3#	2402.152	101.33	0.74	102.07			peak	342	9
4#	2402.152	86.89	0.74	87.63			AVG	342	9
5	4804.000	52.53	7.27	59.80	74.00	-14.20	peak	120	118
6	4804.000	19.27	7.27	26.54	54.00	-27.46	AVG	120	118
7	7206.000	38.89	10.75	49.64	74.00	-24.36	peak	230	360
8	7206.000	15.12	10.75	25.87	54.00	-28.13	AVG	230	360

Remarks:

- 1.Emission Level = Read Level + Factor (Antenna Factor + Cable Loss - Preamp Factor)
Margin value = Emission level – Limit value
- 2.#2402MHz: Fundamental frequency.
- 3.The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.



Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AVG)
Test Channel	Channel 39		

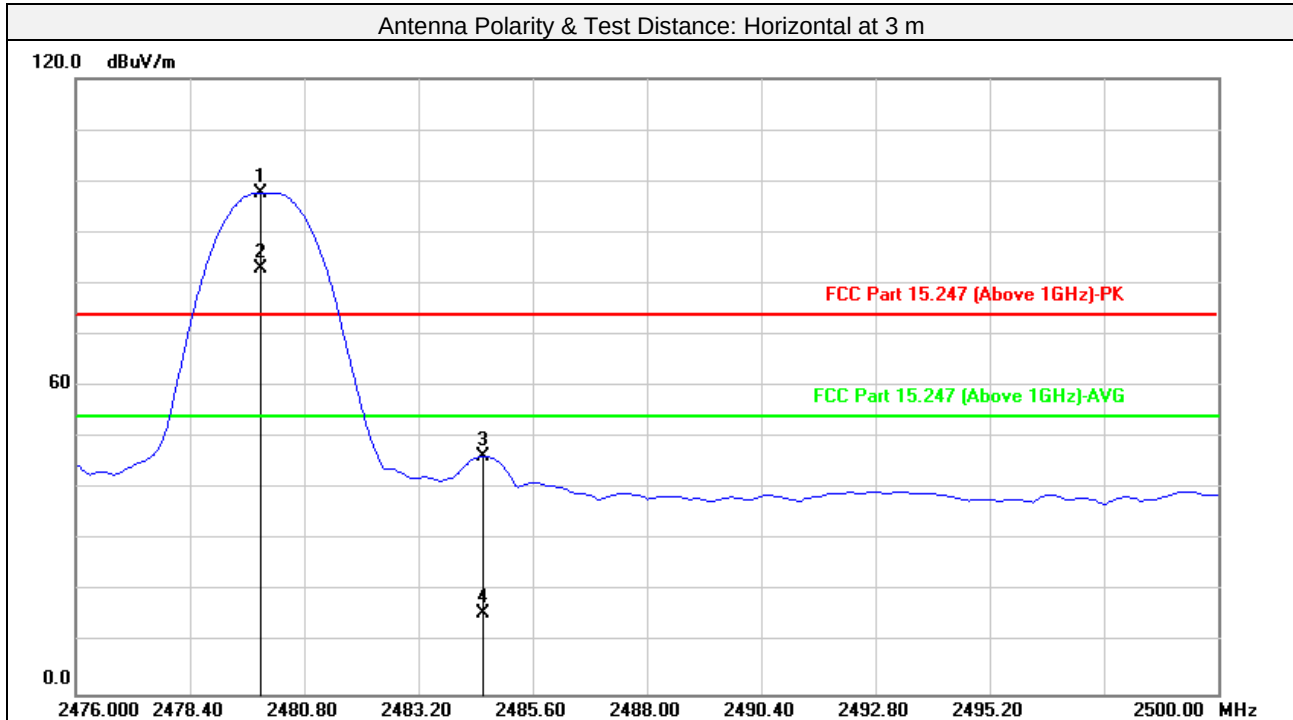
Antenna Polarity & Test Distance: Horizontal at 3 m									
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Height (cm)	Table Angle (Degree)
1 #	2441.000	101.81	0.69	102.50			peak	100	50
2 #	2441.000	76.20	0.69	76.89			AVG	100	50
3	4882.000	51.06	7.60	58.66	74.00	-15.34	peak	300	289
4	4882.000	18.85	7.60	26.45	54.00	-27.55	AVG	300	289
5	7323.000	47.39	10.92	58.31	74.00	-15.69	peak	255	69
6	7323.000	15.97	10.92	26.89	54.00	-27.11	AVG	255	69
Antenna Polarity & Test Distance: Vertical at 3 m									
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Height (cm)	Table Angle (Degree)
1 #	2441.000	100.85	0.69	101.54			peak	200	130
2 #	2441.000	74.64	0.69	75.33			AVG	200	130
3	4882.000	50.09	7.60	57.69	74.00	-16.31	peak	230	250
4	4882.000	18.06	7.60	25.66	54.00	-28.34	AVG	230	250
5	7323.000	48.39	10.92	59.31	74.00	-14.69	peak	160	287
6	7323.000	16.43	10.92	27.35	54.00	-26.65	AVG	160	287

Remarks:

1. Emission Level = Read Level + Factor (Antenna Factor + Cable Loss - Preamp Factor)
Margin value = Emission level – Limit value
2. #2441MHz: Fundamental frequency.
3. The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.



Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AVG)
Test Channel	Channel 78		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Height (cm)	Table Angle (Degree)
1#	2479.896	97.15	0.64	97.79			peak	174	184
2#	2479.896	82.39	0.64	83.03			AVG	174	184
3	2484.561	45.77	0.63	46.40	74.00	-27.60	peak	174	184
4	2484.561	15.17	0.63	15.80	54.00	-38.20	AVG	174	184
5	4960.000	52.93	7.94	60.87	74.00	-13.13	peak	140	56
6	4960.000	20.04	7.94	27.98	54.00	-26.02	AVG	140	56
7	7440.000	49.14	11.09	60.23	74.00	-13.77	peak	230	154
8	7440.000	16.99	11.09	28.08	54.00	-25.92	AVG	230	154

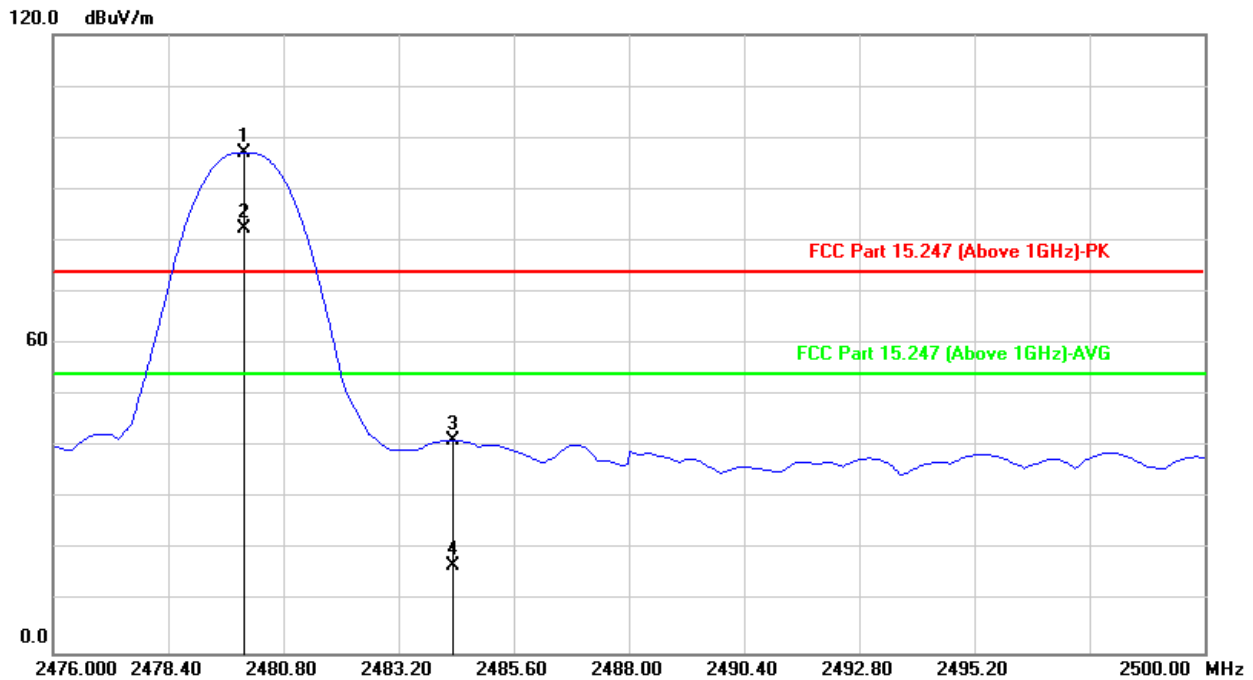
Remarks:

- Emission Level = Read Level + Factor (Antenna Factor + Cable Loss - Preamp Factor)
Margin value = Emission level – Limit value
- #2480MHz: Fundamental frequency.
- The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.



Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AVG)
Test Channel	Channel 78		

Antenna Polarity & Test Distance: Vertical at 3 m



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Height (cm)	Table Angle (Degree)
1#	2479.992	96.50	0.64	97.14			peak	127	51
2#	2479.992	81.77	0.64	82.41			AVG	127	51
3	2484.321	40.69	0.63	41.32	74.00	-32.68	peak	127	51
4	2484.321	16.22	0.63	16.85	54.00	-37.15	AVG	127	51
5	4960.000	51.03	7.94	58.97	74.00	-15.03	peak	200	100
6	4960.000	18.39	7.94	26.33	54.00	-27.67	AVG	200	100
7	7440.000	49.69	11.09	60.78	74.00	-13.22	peak	253	95
8	7440.000	16.89	11.09	27.98	54.00	-26.02	AVG	253	95

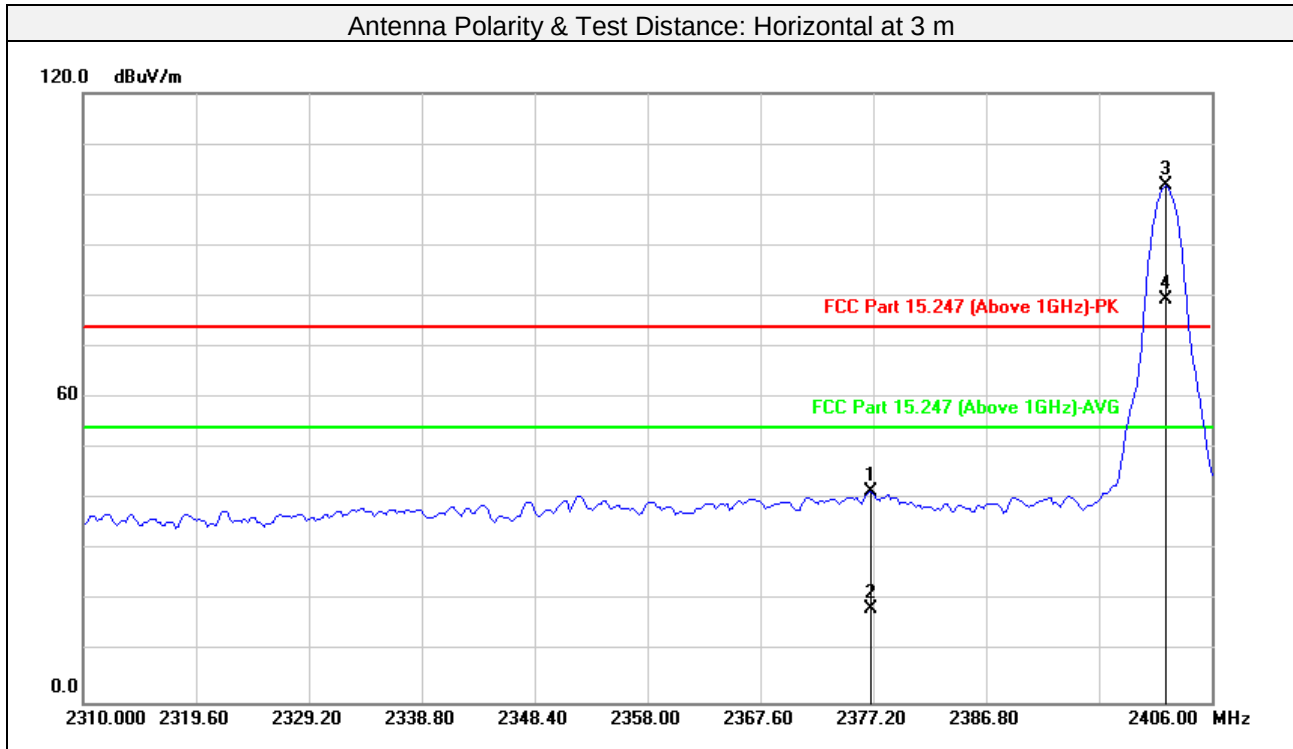
Remarks:

- Emission Level = Read Level + Factor (Antenna Factor + Cable Loss - Preamp Factor)
Margin value = Emission level – Limit value
- #2480MHz: Fundamental frequency.
- The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.



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Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AVG)
Test Channel	Channel 0		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Height (cm)	Table Angle (Degree)
1	2376.950	40.67	0.78	41.45	74.00	-32.55	peak	158	180
2	2376.950	17.72	0.78	18.50	54.00	-35.50	AVG	158	180
3#	2402.152	101.00	0.74	101.74			peak	158	180
4#	2402.152	78.76	0.74	79.50			AVG	158	180
5	4804.000	52.93	7.27	60.20	74.00	-13.80	peak	100	182
6	4804.000	18.33	7.27	25.60	54.00	-28.40	AVG	100	182
7	7206.000	47.15	10.75	57.90	74.00	-16.10	peak	200	160
8	7206.000	8.81	10.75	19.56	54.00	-34.44	AVG	200	160

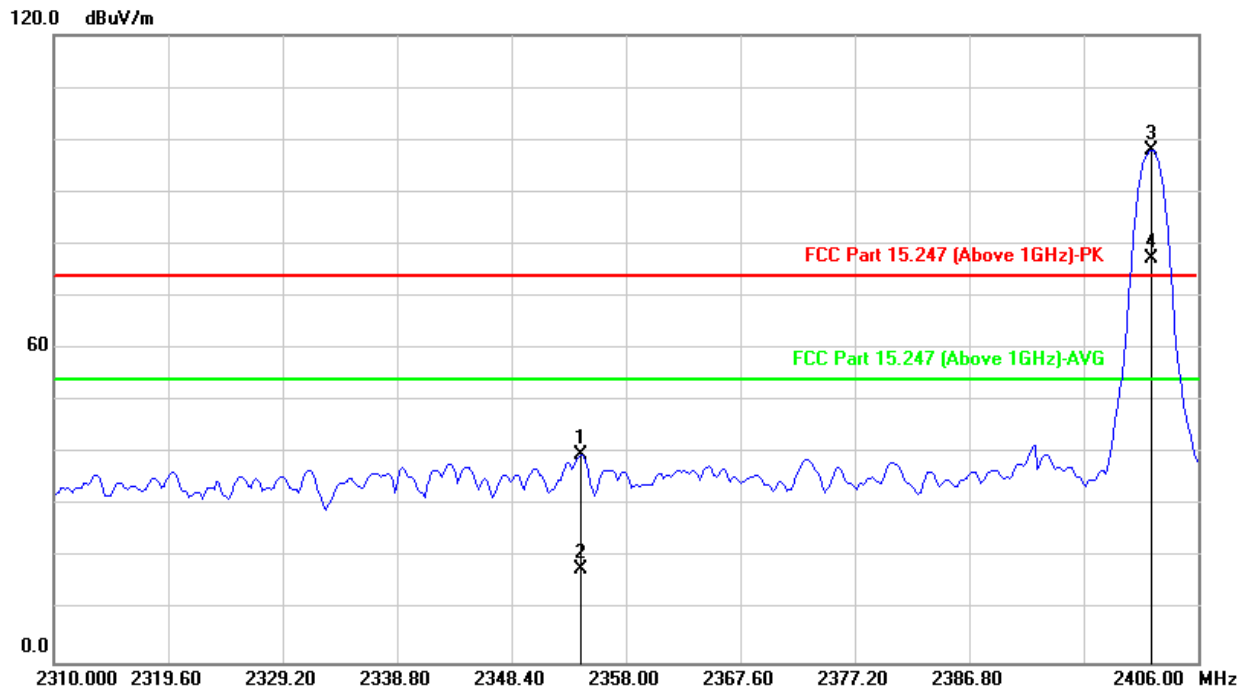
Remarks:

- Emission Level = Read Level + Factor (Antenna Factor + Cable Loss - Preamplifier Factor)
Margin value = Emission level – Limit value
- #2402MHz: Fundamental frequency.
- The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.



Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AVG)
Test Channel	Channel 0		

Antenna Polarity & Test Distance: Vertical at 3 m



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Height (cm)	Table Angle (Degree)
1	2354.249	38.83	0.79	39.62	74.00	-34.38	peak	148	360
2	2354.249	17.21	0.79	18.00	54.00	-36.00	AVG	148	360
3#	2402.152	97.34	0.74	98.08			peak	148	360
4#	2402.152	76.46	0.74	77.20			AVG	148	360
5	4804.000	54.37	7.27	61.64	74.00	-12.36	peak	120	233
6	4804.000	18.63	7.27	25.90	54.00	-28.10	AVG	120	233
7	7206.000	47.58	10.75	58.33	74.00	-15.67	peak	200	180
8	7206.000	12.45	10.75	23.20	54.00	-30.80	AVG	200	180

Remarks:

- Emission Level = Read Level + Factor (Antenna Factor + Cable Loss - Preamplifier Factor)
Margin value = Emission level – Limit value
- #2402MHz: Fundamental frequency.
- The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.



Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AVG)
Test Channel	Channel 39		

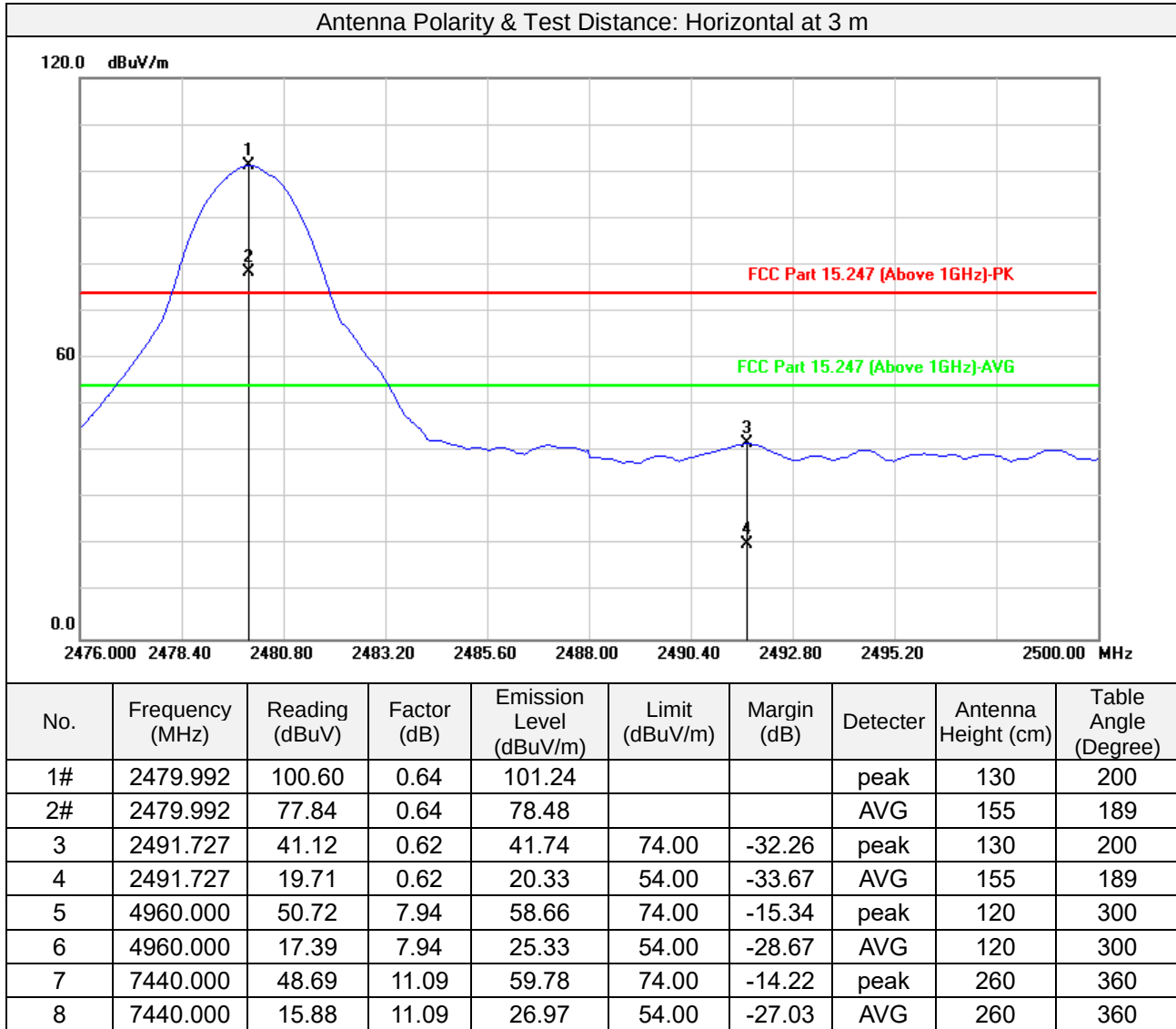
Antenna Polarity & Test Distance: Horizontal at 3 m									
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Height (cm)	Table Angle (Degree)
1#	2441.000	98.85	0.69	99.54			peak	150	229
2#	2441.000	72.82	0.69	73.51			AVG	150	229
3	4882.000	46.75	7.60	54.35	74.00	-19.65	peak	230	150
4	4882.000	18.85	7.60	26.45	54.00	-27.55	AVG	230	150
5	7323.000	51.41	10.92	62.33	74.00	-11.67	peak	320	264
6	7323.000	12.05	10.92	22.97	54.00	-31.03	AVG	320	264
Antenna Polarity & Test Distance: Vertical at 3 m									
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Height (cm)	Table Angle (Degree)
1#	2441.000	98.96	0.69	99.65			peak	150	300
2#	2441.000	79.62	0.69	80.31			AVG	150	300
3	4882.000	51.02	7.60	58.62	74.00	-15.38	peak	200	100
4	4882.000	16.04	7.60	23.64	54.00	-30.36	AVG	200	100
5	7323.000	42.77	10.92	53.69	74.00	-20.31	peak	200	164
6	7323.000	9.63	10.92	20.55	54.00	-33.45	AVG	200	164

Remarks:

- Emission Level = Read Level + Factor (Antenna Factor + Cable Loss - Preamplifier Factor)
Margin value = Emission level – Limit value
- #2441MHz: Fundamental frequency.
- The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.



Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AVG)
Test Channel	Channel 78		

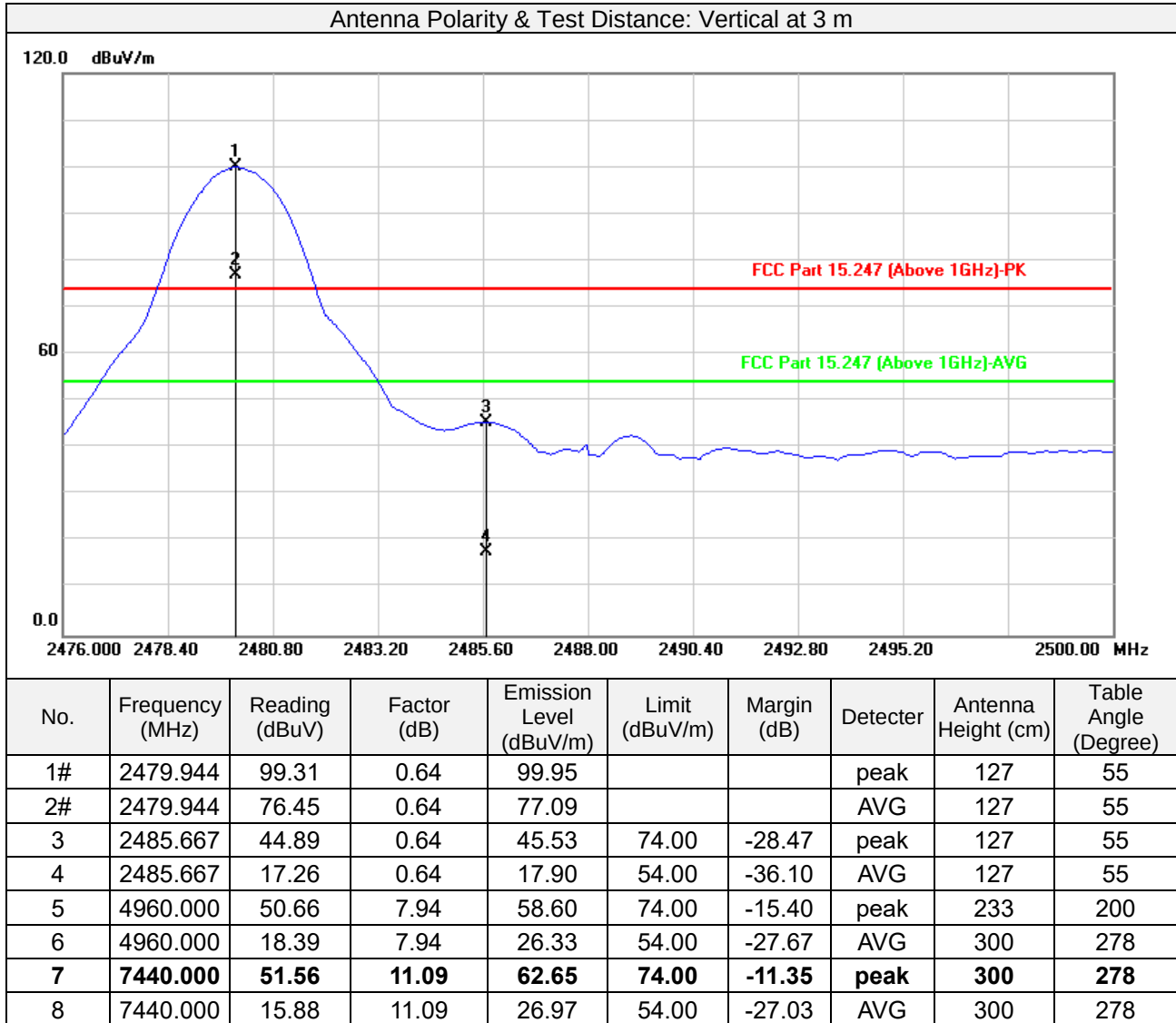


Remarks:

- Emission Level = Read Level + Factor (Antenna Factor + Cable Loss - Preamp Factor)
Margin value = Emission level – Limit value
- #2480MHz: Fundamental frequency.
- The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.



Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AVG)
Test Channel	Channel 78		



Remarks:

- Emission Level = Read Level + Factor (Antenna Factor + Cable Loss - Preamplifier Factor)
Margin value = Emission level – Limit value
- #2480MHz: Fundamental frequency.
- The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

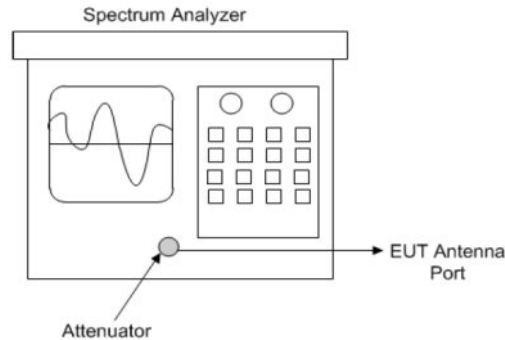


3.2 Number of Hopping Frequency Used

3.2.1 Limits of Hopping Frequency Used Measurement

At least 15 channels frequencies, and should be equally spaced.

3.2.2 Test Setup



Spectrum analyzer test configuration

3.2.3 Test Instruments

Refer to section 5 to get information of above instrument.

3.2.4 Test Procedure

- Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
- Turn on the EUT and connect its antenna terminal to measurement via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
- Set the SA on MaxHold Mode, and then keep the EUT in hopping mode. Record all the signals from each channel until each one has been recorded.
- Set the SA on View mode and then plot the result on SA screen.
- Repeat above procedures until all frequencies measured were complete.

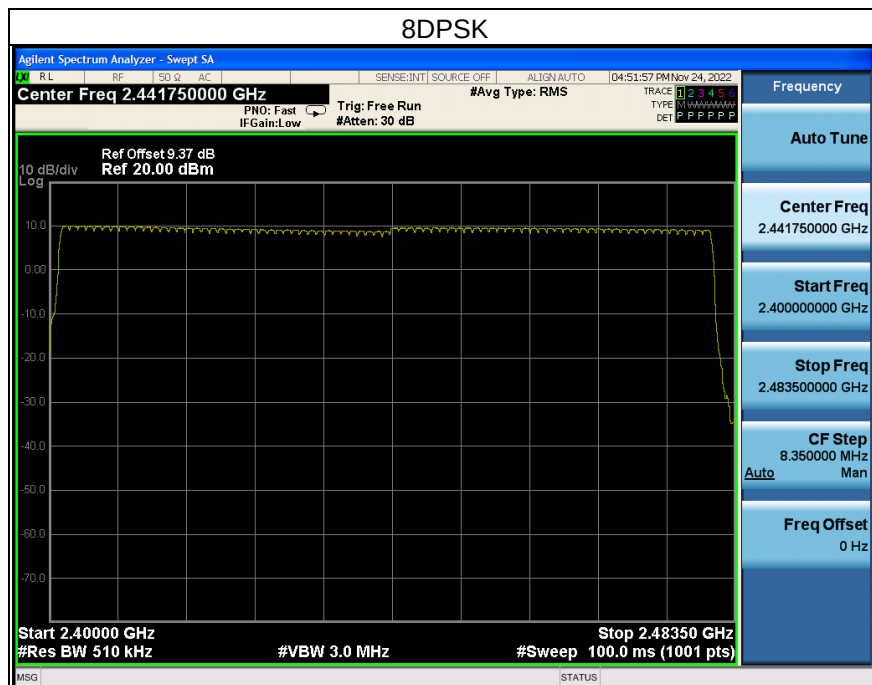
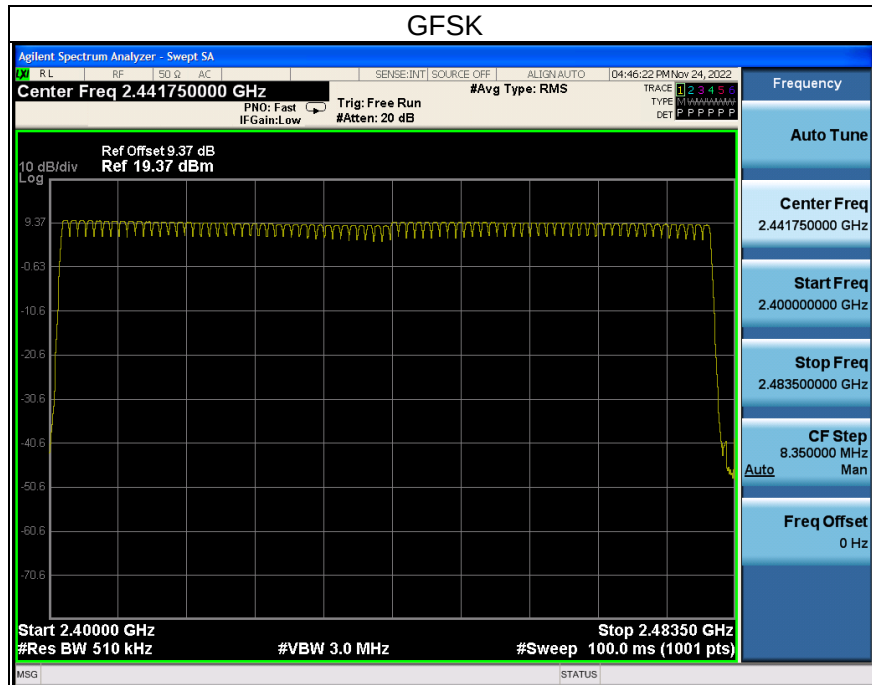
3.2.5 Deviation from Test Standard

No deviation.



3.2.6 Test Results

There are 79 hopping frequencies in the hopping mode. Please refer to next page for the test result. On the plots, it shows that the hopping frequencies are equally spaced.



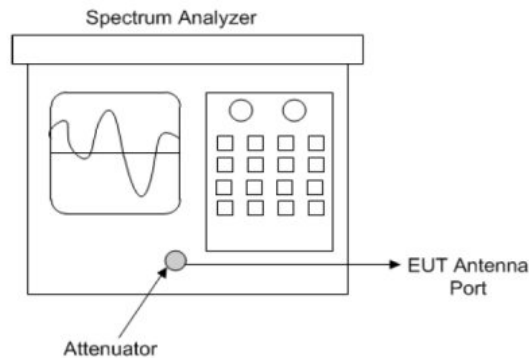


3.3 Dwell Time on Each Channel

3.3.1 Limits of Dwell Time on Each Channel Measurement

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.

3.3.2 Test Setup



Spectrum analyzer test configuration

3.3.3 Test Instruments

Refer to section 5 to get information of above instrument.

3.3.4 Test Procedures

- Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
- Turn on the EUT and connect its antenna terminal to measurement via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
- Adjust the center frequency of SA on any frequency be measured and set SA to zero span mode. And then, set RBW and VBW of spectrum analyzer to proper value.
- Measure the time duration of one transmission on the measured frequency. And then plot the result with time difference of this time duration.
- Repeat above procedures until all different time-slot modes have been completed.

3.3.5 Deviation from Test Standard

No deviation.



3.3.6 Test Results

GFSK

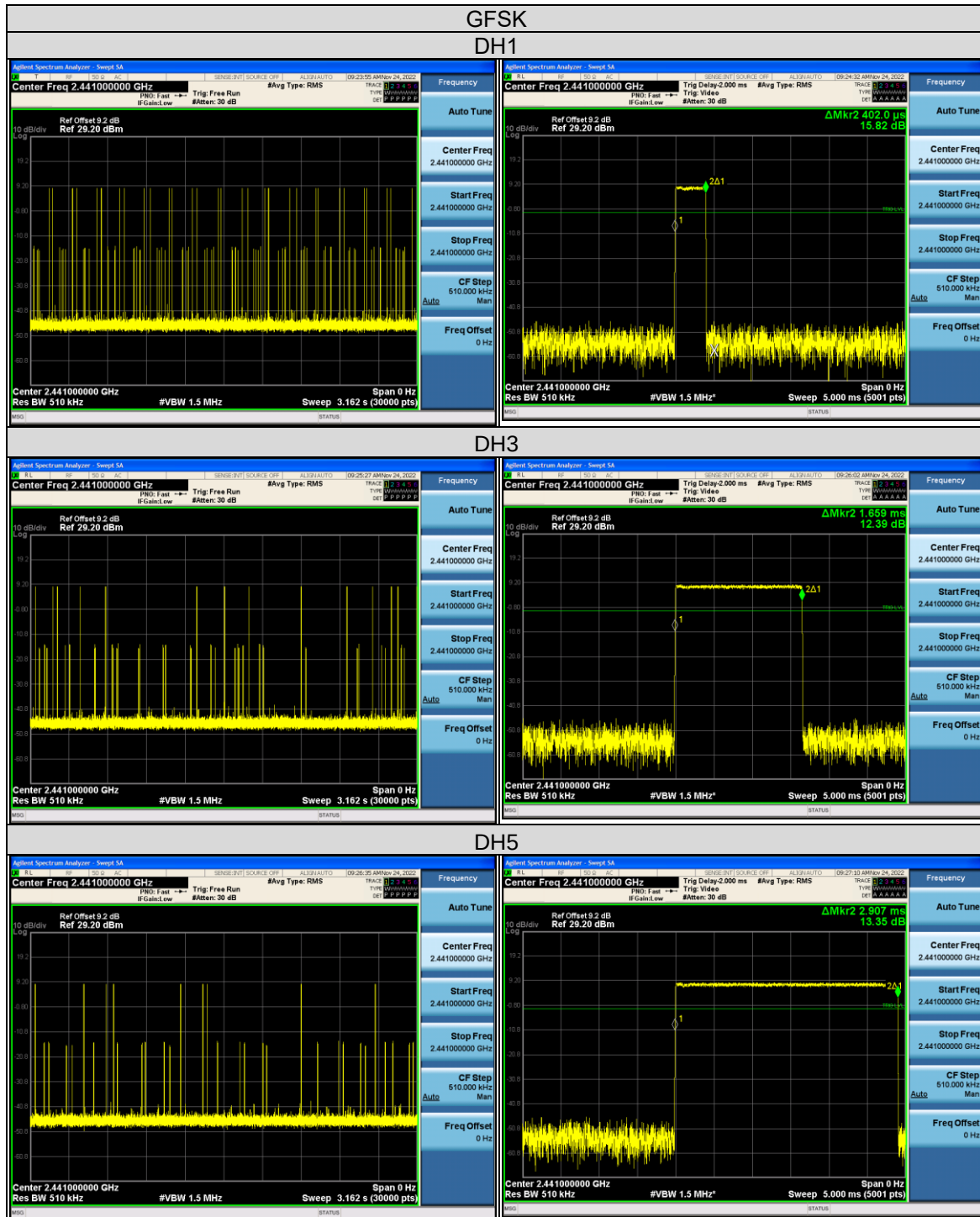
Mode	Number of Hopping Channel	Number of transmission in a period (channel number*0.4 sec)				Length of transmission time (msec)	Result (msec)	Limit (msec)	Verdict
		Period (sec)	Sweep time (sec)	times in a sweep	times in a period				
DH1	79	31.6	3.16	31	310	0.402	124.620	400	Pass
DH3	79	31.6	3.16	13	130	1.659	215.670	400	Pass
DH5	79	31.6	3.16	9	90	2.907	261.630	400	Pass

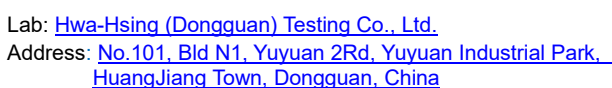
Note: Test plots of the transmitting time slot are shown as below.

8DPSK

Mode	Number of Hopping Channel	Number of transmission in a period (channel number*0.4 sec)				Length of transmission time (msec)	Result (msec)	Limit (msec)	Verdict
		Period (sec)	Sweep time (sec)	times in a sweep	times in a period				
3DH1	79	31.6	3.16	29	290	0.410	118.900	400	Pass
3DH3	79	31.6	3.16	13	130	1.659	215.670	400	Pass
3DH5	79	31.6	3.16	6	60	2.914	174.840	400	Pass

Note: Test plots of the transmitting time slot are shown as below.





Release
[Ver. 1.5](#)

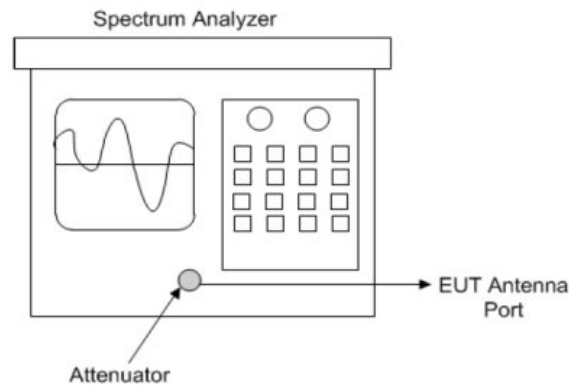


3.4 Channel Bandwidth

3.4.1 Limits of Channel Bandwidth Measurement

For frequency hopping system operating in the 2400-2483.5 MHz, if the 20 dB bandwidth of hopping channel is greater than 25 kHz, two-thirds 20 dB bandwidth of hopping channel shall be a minimum limit for the hopping channel separation.

3.4.2 Test Setup



Spectrum analyzer test configuration

3.4.3 Test Instruments

Refer to section 5 to get information of above instrument.

3.4.4 Test Procedure

- Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the instrument equal to the highest peak value.
- Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.
- Repeat above procedures until all frequencies measured were complete.

3.4.5 Deviation from Test Standard

No deviation.

3.4.6 EUT Operating Condition

The software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel frequencies individually.



3.4.7 Test Results

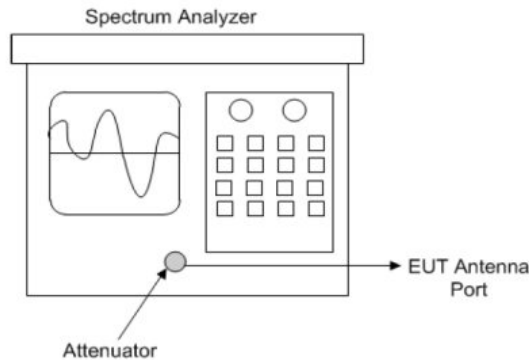
Channel	Frequency (MHz)	20dB Bandwidth (MHz)	
		GFSK	8DPSK
0	2402	1.032	1.308
39	2441	1.041	1.302
78	2480	1.035	1.302





3.5 Occupied Bandwidth Measurement

3.5.1 Test Setup



Spectrum analyzer test configuration

3.5.2 Test Instruments

Refer to section 5 to get information of above instrument

3.5.3 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to PEAK. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean power of a given emission.

3.5.4 Deviation from Test Standard

No deviation.

3.5.5 EUT Operating Conditions

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



3.5.6 Test Results

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		GFSK	8DPSK
0	2402	0.890	1.206
39	2441	0.897	1.212
78	2480	0.890	1.201



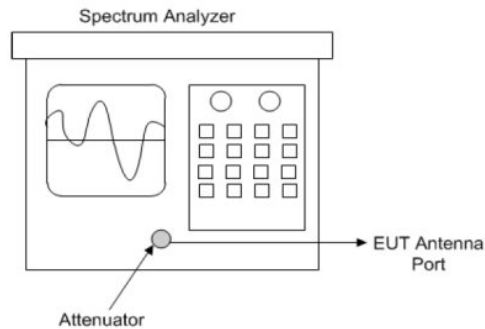


3.6 Hopping Channel Separation

3.6.1 Limits of Hopping Channel Separation Measurement

At least 25 kHz or two-third of 20 dB hopping channel bandwidth (whichever is greater).

3.6.2 Test Setup



3.6.3 Test Instruments

Refer to section 5 to get information of above instrument.

3.6.4 Test Procedure

- Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range.
- By using the MaxHold function record the separation of two adjacent channels.
- Measure the frequency difference of these two adjacent channels by SA MARK function. And then plot the result on SA screen.
- Repeat above procedures until all frequencies measured were complete.

3.6.5 Deviation from Test Standard

No deviation.



3.6.6 Test Results

Channel No.	Frequency (MHz)	Adjacent Channel Separation (MHz)		Minimum Limit (MHz)		Pass / Fail
		GFSK	8DPSK	GFSK	8DPSK	
0	2402	0.999	1.005	0.688	0.872	Pass
39	2441	1.006	0.999	0.694	0.868	Pass
78	2480	1.002	0.999	0.690	0.868	Pass

Note: The minimum limit is two-third 20 dB bandwidth.



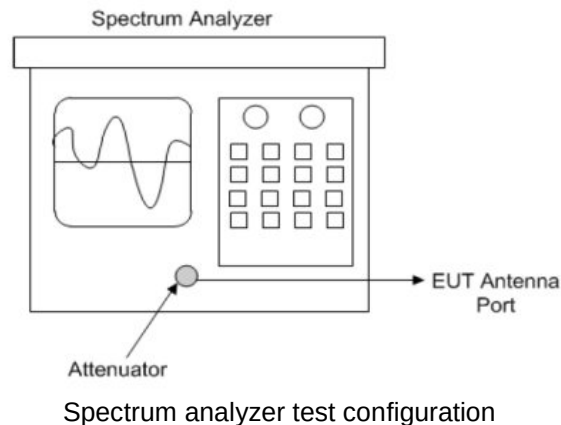


3.7 Maximum Output Power

3.7.1 Limits of Maximum Output Power Measurement

The Maximum Output Power Measurement is 125mW.

3.7.2 Test Setup



3.7.3 Test Instruments

Refer to section 5 to get information of above instrument.

3.7.4 Test Procedure

☒ Measurement using a spectrum analyzer (SA), Selection of test method:

☒ Maximum peak conducted output power

The following procedure shall be used when an instrument with a resolution bandwidth that is greater than the DTS bandwidth is available to perform the measurement:

- Set the RBW > DTS bandwidth.
- Set VBW > [3 x RBW]
- Set span > [3 x RBW]
- Sweep time = auto couple.
- Detector = peak
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use peak marker function to determine the peak amplitude level.



☒ Maximum conducted (average) output power

- a) Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b) Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- c) SA Setting:
 - 1)* Set span to at least 1.5 times the OBW
 - 2)* Set sweep trigger to "free run."
 - 3)* Set RBW= 1% to 5% of the OBW. not to exceed 1MHz.
 - 4)* Set VBW $\geq 3 \times$ RBW
 - 5)* Number of points in sweep $\geq 2 \times$ span /RBW. (This gives bin-to-bin spacing $\leq$ RBW / 2. so that narrowband signals are not lost between frequency bins).
 - 6)* Sweep time $\leq$ (number of points in sweep) $\times$ T. where T is defined in 11.6. If this gives a sweep time less than the auto sweep time of the instrument. then method AVGSA-3 shall not be used (use AVGSA-3A). The purpose of this step is so that the averaging time in each bin is less than or equal to the minimum time of a transmission.
 - 7)* Detector =RMS (power averaging).
 - 8)* Trace mode =Max hold.
 - 9)* Allow max hold to run for at least 60 s or longer as needed to allow the trace to stabilize.
 - 10)* Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function with band limits set equal to the OBW band edges. If the instrument does not have a band power function. then sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW.
- d. Measure the captured power within the band and recording the plot.
- e. Repeat above procedures until all frequencies required were complete.

3.7.5 Deviation from Test Standard

No deviation.

3.7.6 EUT Operating Condition

The software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel frequencies individually.



3.7.7 Test Results

Left:

Peak power

Channel No.	Freq. (MHz)	Output Power (dBm)		Output Power (mW)		Power Limit (mW)	Pass / Fail
		GFSK	8DPSK	GFSK	8DPSK		
0	2402	7.217	9.354	5.269	8.618	125	Pass
39	2441	7.205	9.395	5.254	8.700	125	Pass
78	2480	6.919	9.238	4.919	8.391	125	Pass

Average power

Channel No.	Freq. (MHz)	Output Power (dBm)		Output Power (mW)		Power Limit (mW)	Pass / Fail
		GFSK	8DPSK	GFSK	8DPSK		
0	2402	3.49	3.35	2.234	2.163	125	Pass
39	2441	3.39	3.46	2.183	2.218	125	Pass
78	2480	3.40	3.15	2.188	2.065	125	Pass

Right:

Peak power

Channel No.	Freq. (MHz)	Output Power (dBm)		Output Power (mW)		Power Limit (mW)	Pass / Fail
		GFSK	8DPSK	GFSK	8DPSK		
0	2402	6.748	8.867	4.729	7.704	125	Pass
39	2441	6.717	8.907	4.696	7.775	125	Pass
78	2480	6.414	8.753	4.379	7.504	125	Pass

Average power

Channel No.	Freq. (MHz)	Output Power (dBm)		Output Power (mW)		Power Limit (mW)	Pass / Fail
		GFSK	8DPSK	GFSK	8DPSK		
0	2402	3.37	3.11	2.173	2.046	125	Pass
39	2441	3.17	3.33	2.075	2.153	125	Pass
78	2480	3.31	3.10	2.143	2.042	125	Pass