

Product Name: Smart Phone PMN: Smart Phone	Report No: ITEZA2-202400339RF3
For FCC ID Model: Blade GT, Blade GT Ultra, Blade GT Play, Blade GT Pro, Blade GT Max, Blade10 Play, Blade10 Max 5G For ISED HVIN: Blade GT	Security Classification: Open
Version: V1.0	Total Page: 82

TIRT Testing Report

Prepared By:	Checked By:	Approved By:	
Aaron Long	Stone Tang	Joky Wang	
			

RF TEST REPORT

FCC ID: 2AX4YBLADEGT

IC: 33167-BLADEGT

According to

47 CFR FCC Part 15, Subpart C(Section 15.247)

ANSI C63.10:2013

Applicant:	Shenzhen DOOGEE Hengtong Technology CO.,LTD
FCC ID Address:	B, 2/F, Building A4, Silicon Valley Power Digital Industrial Park, No. 22, Longhua New District, Shenzhen, China
IC Address	B, 2/F, Building A4, Silicon Valley Power Digital Industrial Park, No. 22, Dafu Industrial Zone, Guanlan Aobei Community, Guanlan Street, Longhua New District, Shenzhen, Guangdong China
Manufacturer:	Shenzhen DOOGEE Hengtong Technology CO.,LTD
Address:	B, 2/F, Building A4, Silicon Valley Power Digital Industrial Park, No. 22, Longhua New District, Shenzhen, China
Sample No:	1000046260
Product Name:	Smart Phone
PMN:	Smart Phone
Brand Name:	DOOGEE
For FCC ID Model No.:	Blade GT, Blade GT Ultra, Blade GT Play, Blade GT Pro, Blade GT Max, Blade10 Play, Blade10 Max 5G
For ISED HVIN	Blade GT
Test No.:	Blade GT

Date of Receipt:	2024/09/11
Date of Test:	2024/09/11~2024/11/19
Issued Date:	2024/12/02
Testing Lab:	TIRT

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History of this test report

Original Report Issue Date: 2024.12.02

- No additional attachment
- Additional attachments were issued following record

Attachment No.	Issue Date	Description

1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below:

Test Item	Standards Paragraph	Result
Maximum Peak Output Power	FCC Part 15: 15.247(b)(1), RSS-247(5.4 b), ANSI C63.10 :2013	P
Bandwidth	FCC Part 15: 15.215, RSS-247(5.1 a), ANSI C63.10 :2013	P
Carrier Frequency Separation	FCC Part 15: 15.247(a)(1), RSS-247(5.1 b), ANSI C63.10 :2013	P
Number Of Hopping Channel	FCC Part 15: 15.247(a)(1), RSS-247(5.1 d),ANSI C63.10 :2013	P
Dwell Time	FCC Part 15: 15.247(a)(1), RSS-247(5.1 d),ANSI C63.10 :2013	P
Radiated Emission	FCC Part 15: 15.209, FCC Part 15: 15.247(d), RSS-Gen(8.9), RSS-247(5.5), ANSI C63.10 :2013	P
Band Edge Compliance	FCC Part 15: 15.247(d), RSS-Gen(6.13), RSS-247(5.5), ANSI C63.10 :2013	P
Power Line Conducted Emissions	FCC Part 15: 15.207, RSS-GEN(8.8), ANSI C63.10 :2013	P
Antenna requirement	FCC Part 15: 15.203, RSS-GEN(6.8)	P
Note: 1. P is an abbreviation for Pass. 2. F is an abbreviation for Fail. 3. N/A is an abbreviation for Not Applicable. 4. The conclusion of this test report is judged by actual test data without considering measurement uncertainty.		

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

EUT Name	: Smart Phone
PMN	: Smart Phone
For FCC ID Model No.	: Blade GT, Blade GT Ultra, Blade GT Play, Blade GT Pro, Blade GT Max, Blade10 Play, Blade10 Max 5G
For FCC ID Model No DIFF.	: There is no difference except the name of the model. All tests are made with the Blade GT model.
For ISED HVIN	: Blade GT
Power supply	: DC 3.87V from battery or DC 9V from adapter

Radio Technology	: Bluetooth V5.0 EDR
------------------	----------------------

Operation frequency	: 2402-2480MHz
Channel No.	: 79 Channels
Channel spacing	: 1MHz
Modulation type	: GFSK, $\pi/4$ DQPSK, 8DPSK
Antenna Type	: PIFA antenna, Maximum Gain is 1.54dBi. Antenna information is provided by applicant.

Software version	: DOOGEE-Blade_GT-EEA-Android14.0-20240830
------------------	--

Hardware version	: M163-MUB-V2
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Intend use environment	: Residential, commercial and light industrial environment
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2.2. Accessories of Device (EUT)

Accessories : AC Adapter
 Manufacturer : Shenzhen Theone Electronic CO.,Ltd
 Model : TP182C-US
 Input: AC100-240V~ 50/60Hz 0.5A Max
 Output USB-A: 5.0V= 3.0A 15.0W; 9.0V= 2.0A 18.0W,
 Ratings : 12.0V= 1.5A 18.0W;
 Power:18.0W Max

2.3. Tested Supporting System Details

No.	Description	Manufacturer	Model	Serial Number	Certification or SDoC
1.	--	--	--	--	--

2.4. Block Diagram of connection between EUT and simulators



2.5. Test Mode Description

Tested mode, channel information		
Mode	Channel	Frequency (MHz)
GFSK	Low :CH0	2402
	Middle: CH39	2441
	High: CH78	2480
$\pi/4$ DQPSK	Low :CH0	2402
	Middle: CH39	2441
	High: CH78	2480
8DPSK	Low :CH0	2402
	Middle: CH39	2441
	High: CH78	2480

2.6. Test Conditions

Items	Required	Actual
Temperature range:	15-35℃	24℃
Humidity range:	25-75%	56%
Pressure range:	86-106kPa	980kPa

2.7. Test Facility

Company:	Beijing TIRT Technology Service Co.,Ltd Shenzhen
Address:	104 Building C, Xinmingsheng Industrial Park No.132, Zhangge Old Village East Zone, Zhangge Community, Fucheng Street, Longhua District, Shenzhen, Guangdong, P. R. China
CNAS Registration Number:	CNAS L14158
A2LA Registration Number:	6049.01
FCC Accredited Lab.Designation Number:	CN1366
FCC Test Firm Registration Number:	820690
CAB identifier	CN0159
Company Number	31418
Telephone:	+86-0755-27087573

2.8. Measurement Uncertainty

(95% confidence levels, k=2)

Uncertainty	
Parameter	Uncertainty
Occupied Channel Bandwidth	±142.12 KHz
RF power conducted	±0.74 dB
RF power radiated	±3.25dB
Spurious emissions, conducted	±1.78dB
Spurious emissions, radiated (9KHz~30MHz)	±2.56dB
Spurious emissions, radiated (30MHz~1GHz)	±4.6dB
Spurious emissions, radiated (Above 1GHz)	±4.9dB
Conduction Emissions(150kHz~30MHz)	±3.1 dB
Humidity	±4.6%
Temperature	±0.7℃
Time	±1.25

2.9. Test Equipment List

Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
EMI Receiver	Rohde&Schwarz	ESIB 40	YH-TIRT-SAC-966-20220911	2024/01/05	2025/01/04
Integral Antenna	Schwarzbeck	VULB 9163	01314	2022/12/11	2024/12/10
Integral Antenna	Rohde&Schwarz	HF907	RSM2991424	2022/12/11	2024/12/10
Preamplifier	Emtrace	RP01A	'02017	2024/01/05	2025/01/04
Preamplifier	Schwarzbeck	BBV9744	00143	2024/01/05	2025/01/04
Loop Antenna	ZHINAN	ZN30900A	12024	2024/01/05	2025/01/04
Horn Antenna	Schwarzbeck	BBHA9170	00956	2024/01/05	2025/01/04
RF Cable	/	LMR400UF-NMNM-7.0M	/	2024/01/05	2025/01/04
RF Cable	/	SFT2050PUR-NMNM-7.0M	/	2024/01/05	2025/01/04
EMI Receiver	Rohde&Schwarz	ESR7	1316.3003K07-102611-mk	2024/11/02	2025/11/01
LISN	Rohde&Schwarz	ENV216	3560.655.12-102915-Bp	2024/11/02	2025/11/01
RF Cable	\	SFT2050PUR-NMNM-2.0M	\	2024/01/05	2025/01/04
Spectrum analyzer	ROHDE&SCHWARZ	FSU26	200732	2024/01/05	2025/01/04
Spectrum analyzer	ROHDE&SCHWARZ	FSV40-N	101722	2024/01/05	2025/01/04
Filter	HEWLETT PACKARD	JS0806-F	19K8060209	2024/01/05	2025/01/04

3. MAXIMUM PEAK OUTPUT POWER

3.1. Limit

Please refer section15.247& RSS-247.

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

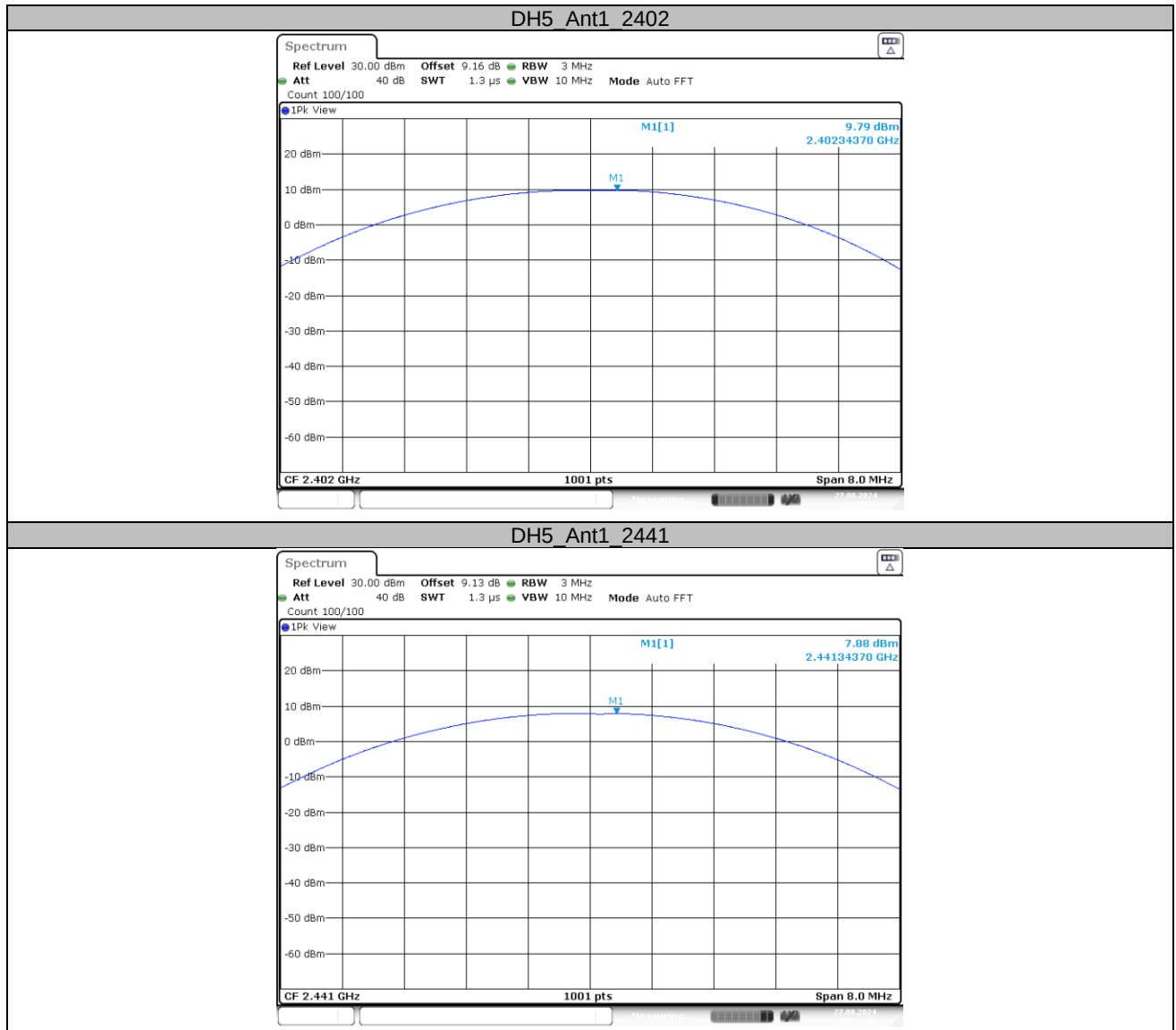
3.2. Test Procedure

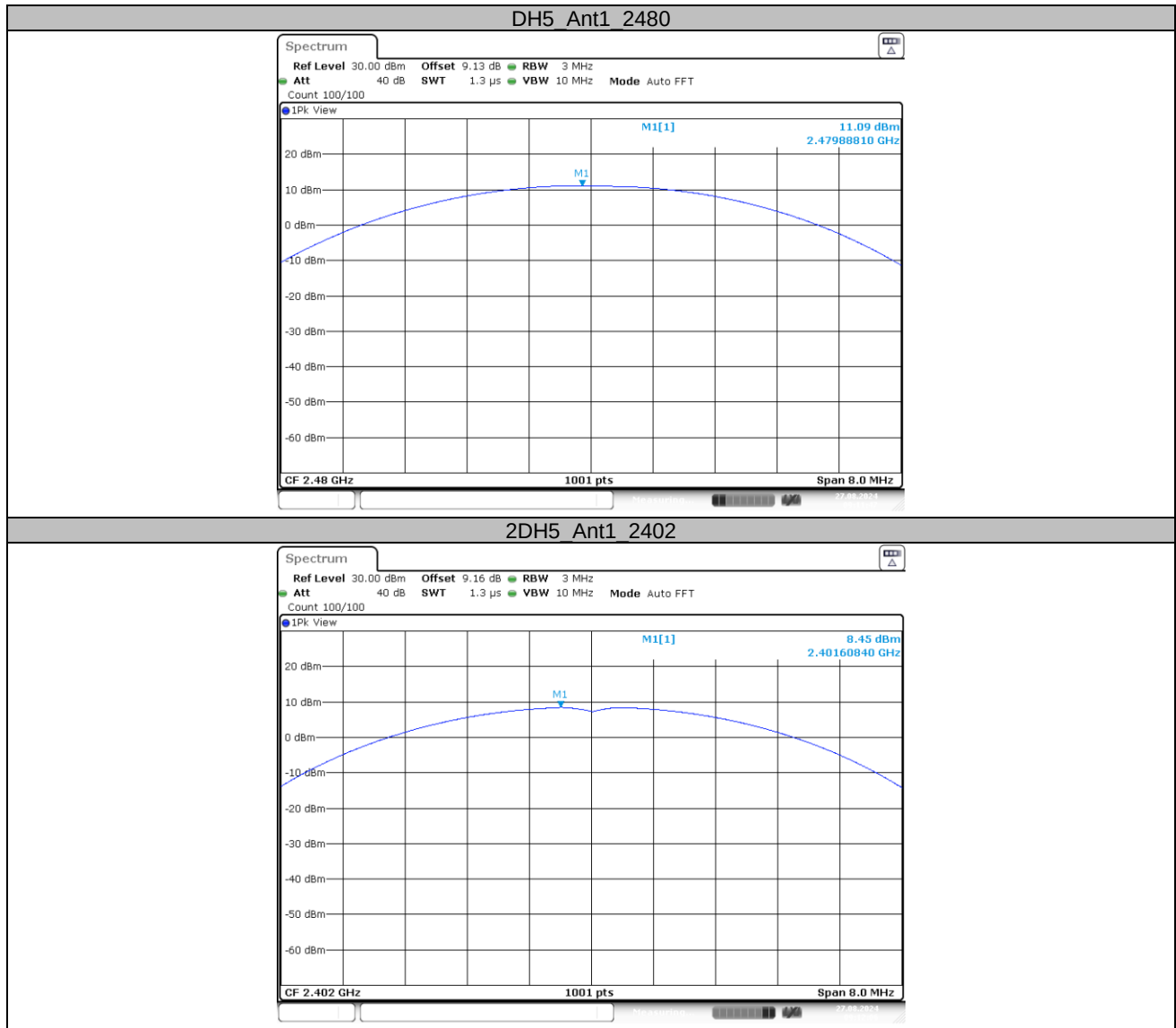
- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- The following table is the setting of the spectrum analyzer:
- Compute the trace by integrating the spectrum, finally, maxhold displays the View

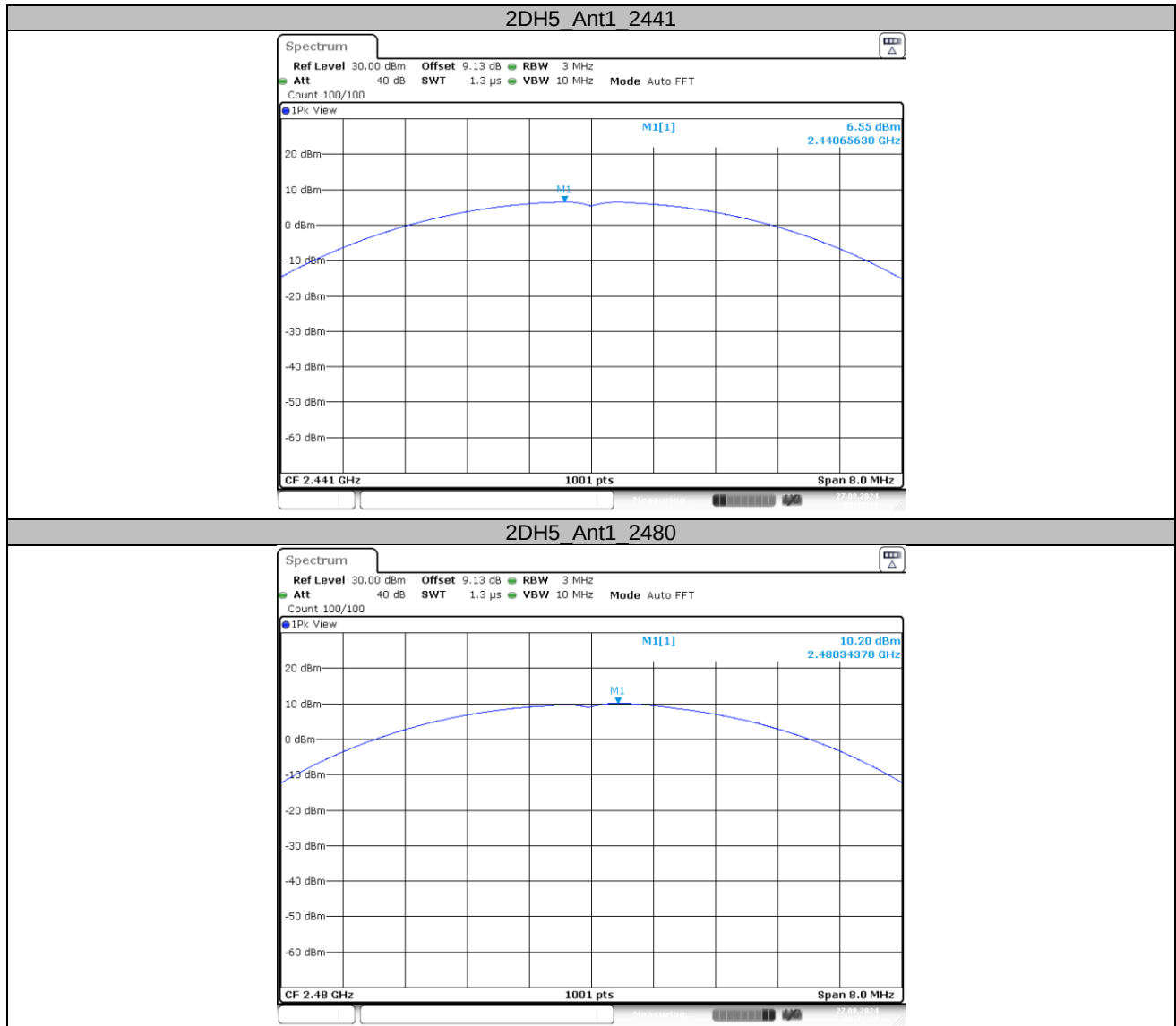
Spectrum Parameters	Setting
Span Frequency	$\geq 3 \times \text{RBW}$
RBW	3 MHz
VBW	10MHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

3.3. Test Result

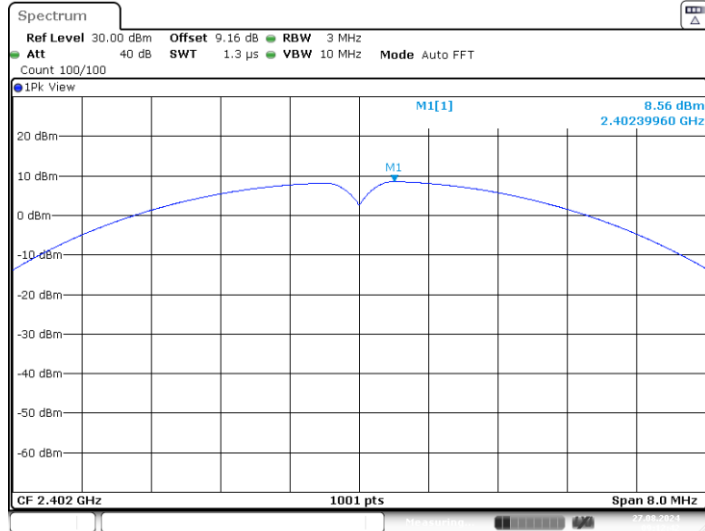
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	EIRP (dBm)	Limit (dBm)	Verdict
DH5	Ant1	2402	9.79	≤ 20.97	11.33	36	PASS
		2441	7.88	≤ 20.97	9.42	36	PASS
		2480	11.09	≤ 20.97	12.63	36	PASS
2DH5	Ant1	2402	8.45	≤ 20.97	9.99	36	PASS
		2441	6.55	≤ 20.97	8.09	36	PASS
		2480	10.20	≤ 20.97	11.74	36	PASS
3DH5	Ant1	2402	8.56	≤ 20.97	10.10	36	PASS
		2441	6.60	≤ 20.97	8.14	36	PASS
		2480	9.98	≤ 20.97	11.52	36	PASS



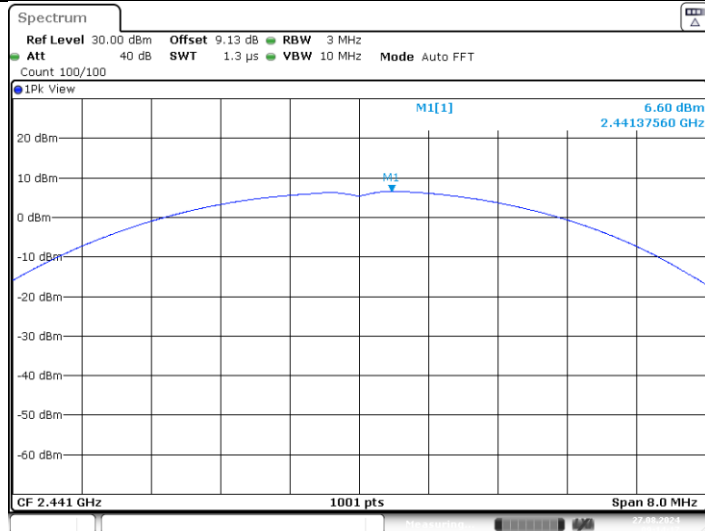


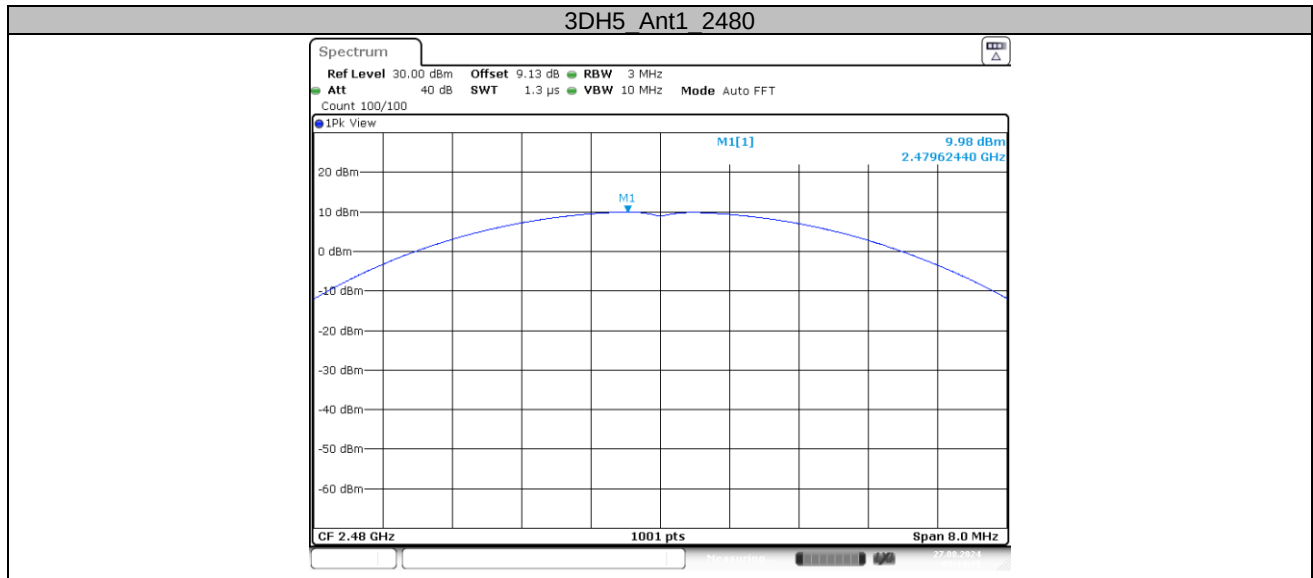


3DH5_Ant1_2402



3DH5_Ant1_2441





4. BANDWIDTH

4.1. Limit

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in RSS-GEN, FCC Section 15.247(a)(1), must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

4.2. Test Procedure

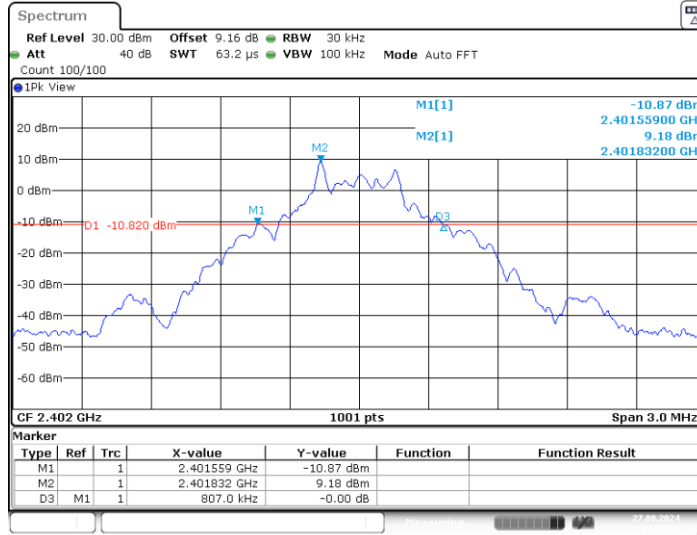
The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30kHz RBW and 100kHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB. Compute the trace by integrating the spectrum, finally, maxhold displays the View

4.3. Test Result

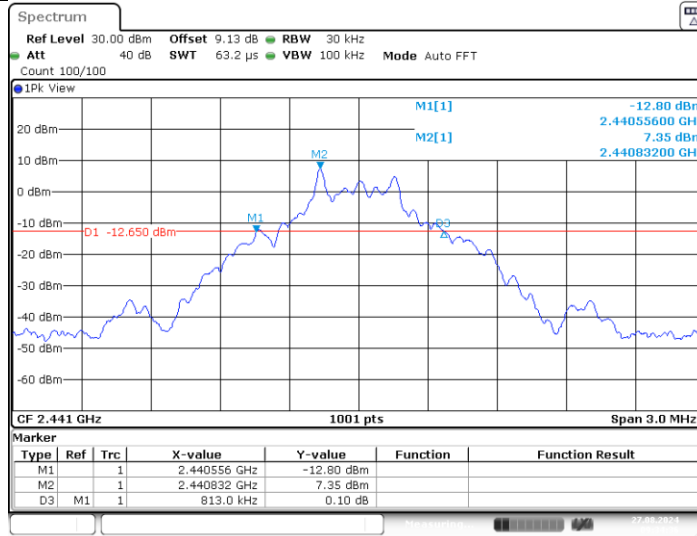
-20dB Bandwidth

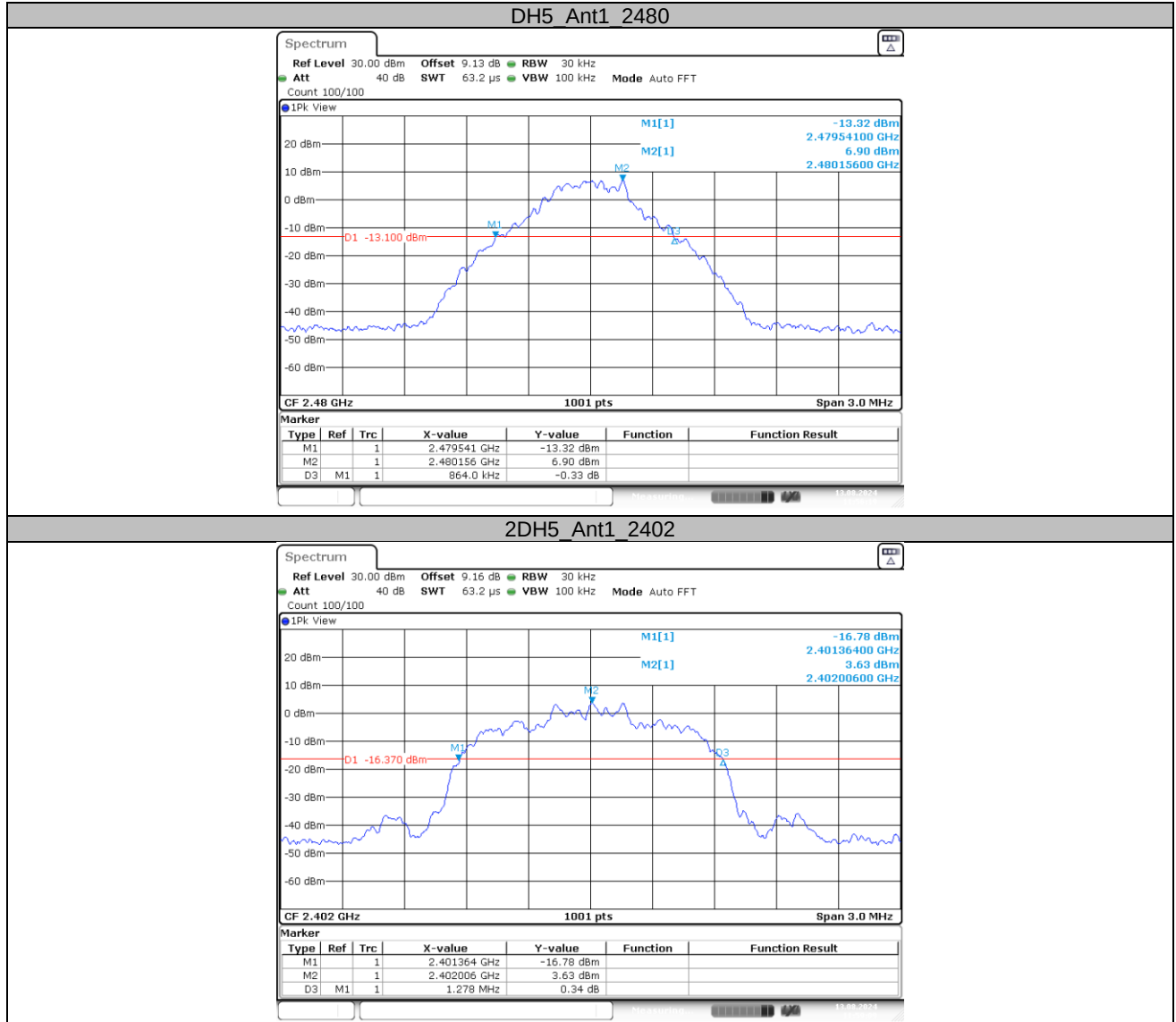
TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.81	2401.56	2402.37	---	---
		2441	0.81	2440.56	2441.37	---	---
		2480	0.86	2479.54	2480.41	---	---
2DH5	Ant1	2402	1.28	2401.36	2402.64	---	---
		2441	1.09	2440.44	2441.53	---	---
		2480	1.26	2479.36	2480.62	---	---
3DH5	Ant1	2402	1.26	2401.36	2402.62	---	---
		2441	1.11	2440.43	2441.54	---	---
		2480	1.28	2479.35	2480.63	---	---

DH5_Ant1_2402

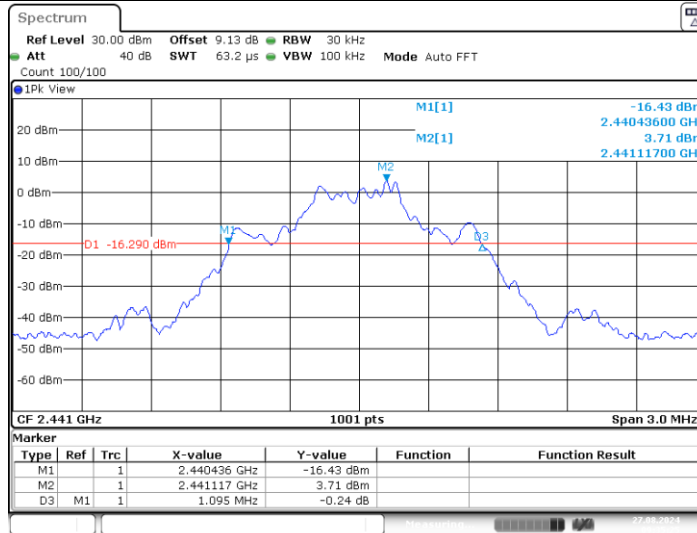


DH5_Ant1_2441

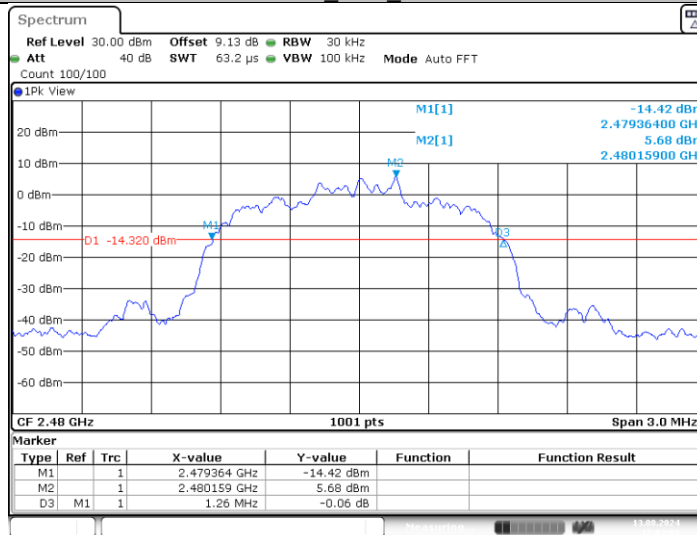


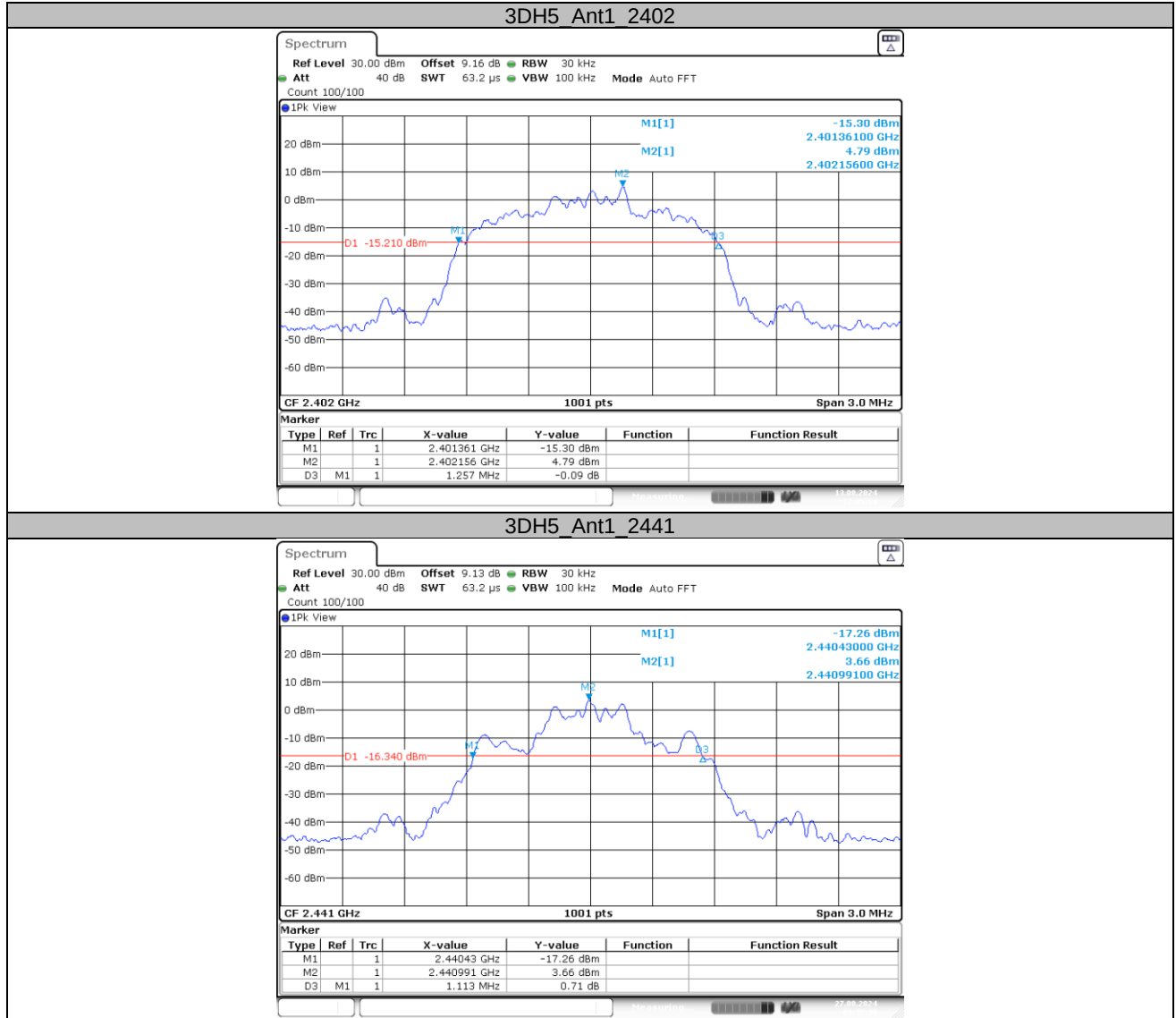


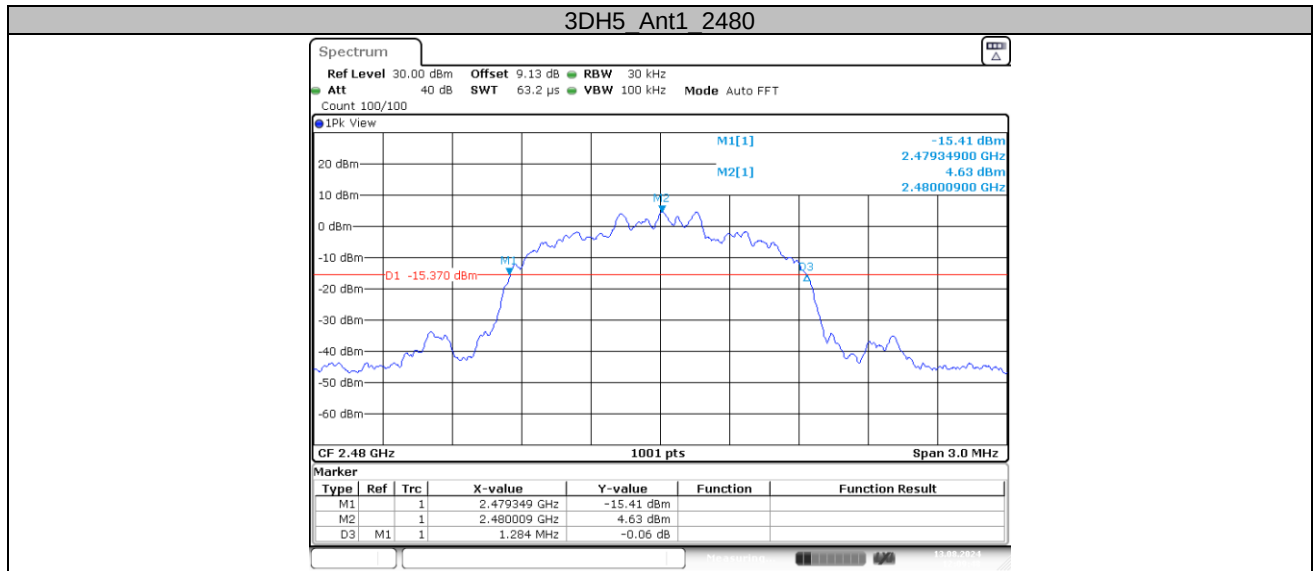
2DH5_Ant1_2441



2DH5_Ant1_2480

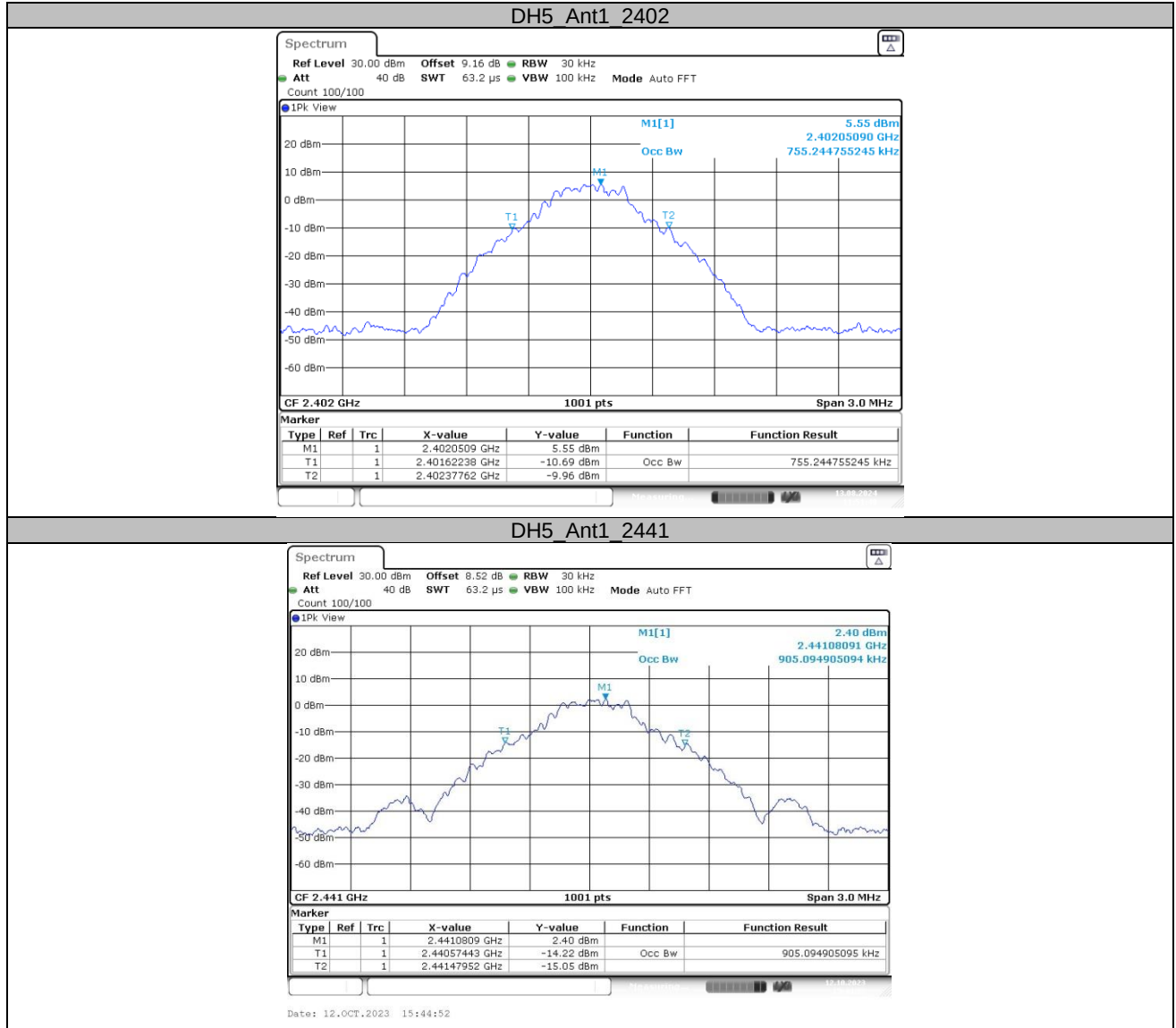


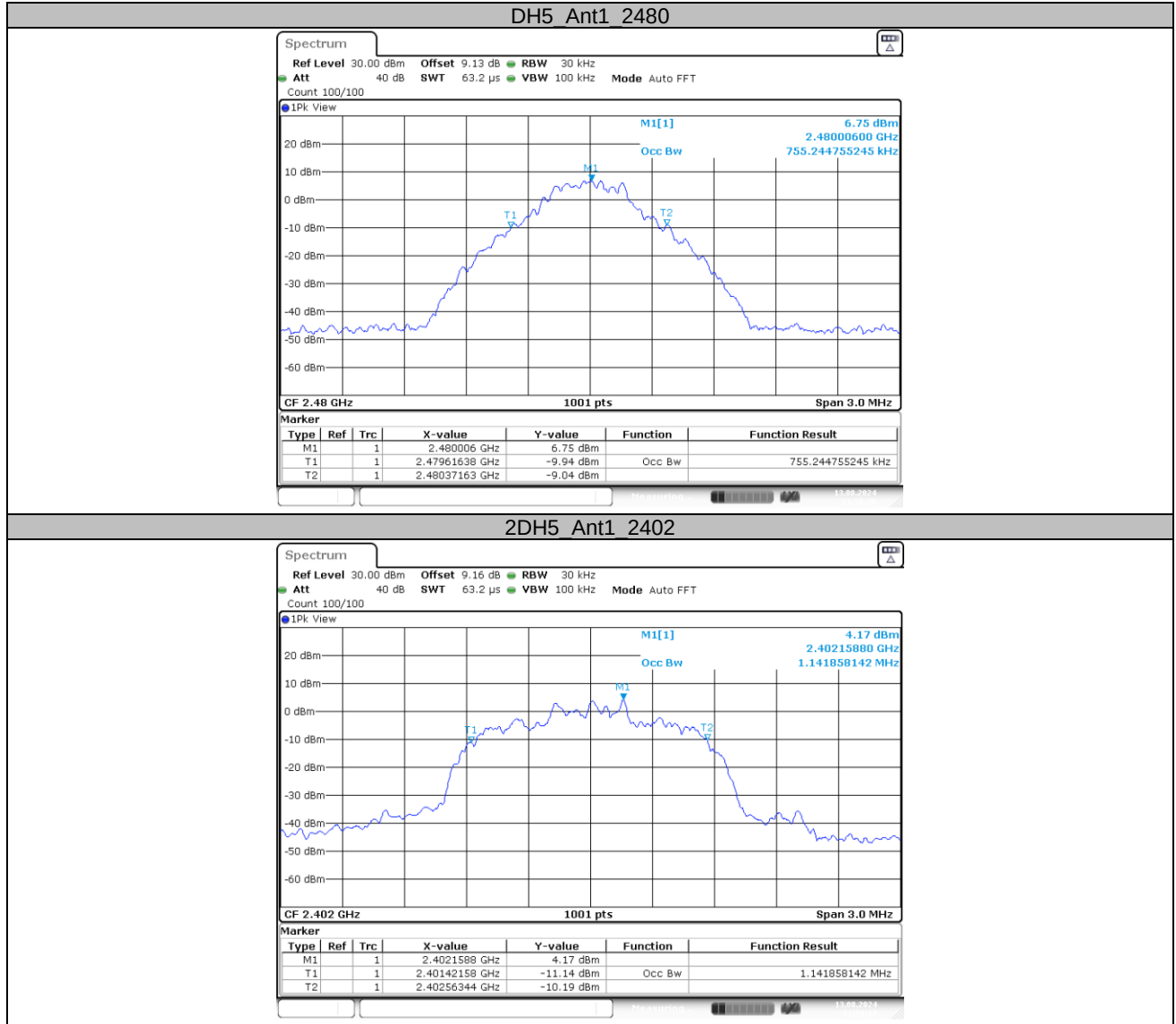




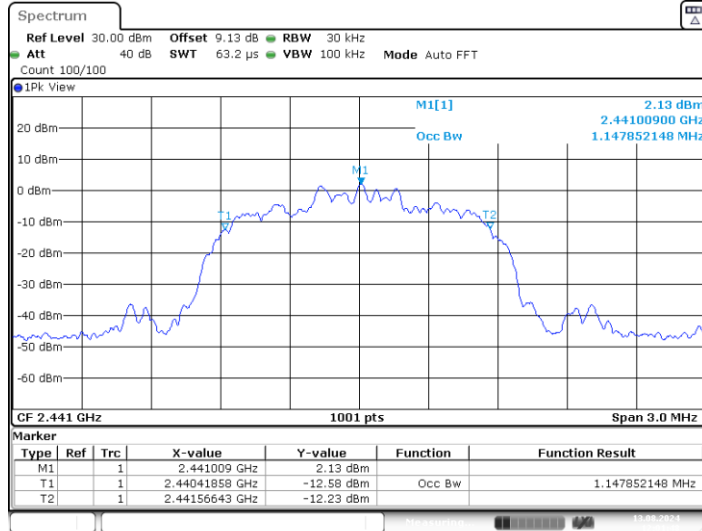
99% Occupied Bandwidth

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.755	2401.6224	2402.3776	---	---
		2441	0.905	2440.5744	2441.4795	---	---
		2480	0.755	2479.6164	2480.3716	---	---
2DH5	Ant1	2402	1.142	2401.4216	2402.5634	---	---
		2441	1.148	2440.4186	2441.5664	---	---
		2480	1.151	2479.4126	2480.5634	---	---
3DH5	Ant1	2402	1.154	2401.4216	2402.5754	---	---
		2441	1.154	2440.4216	2441.5754	---	---
		2480	1.148	2479.4186	2480.5664	---	---

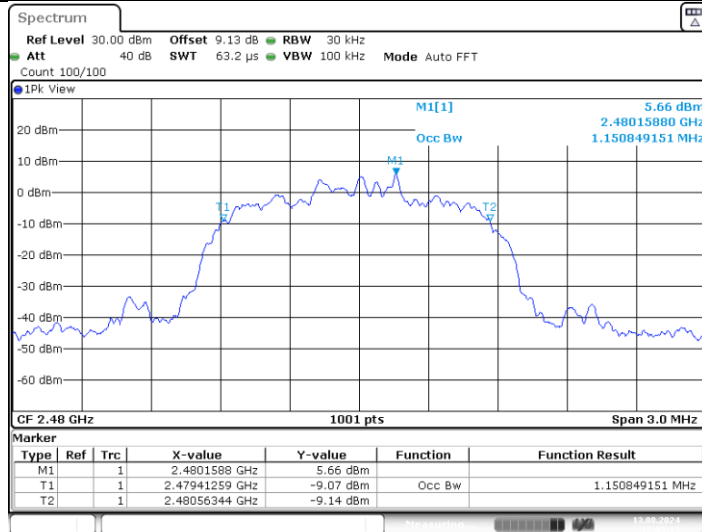




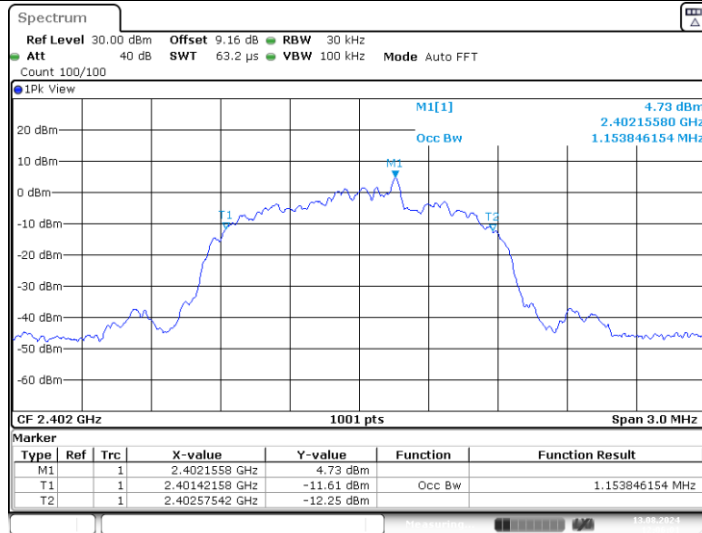
2DH5_Ant1_2441



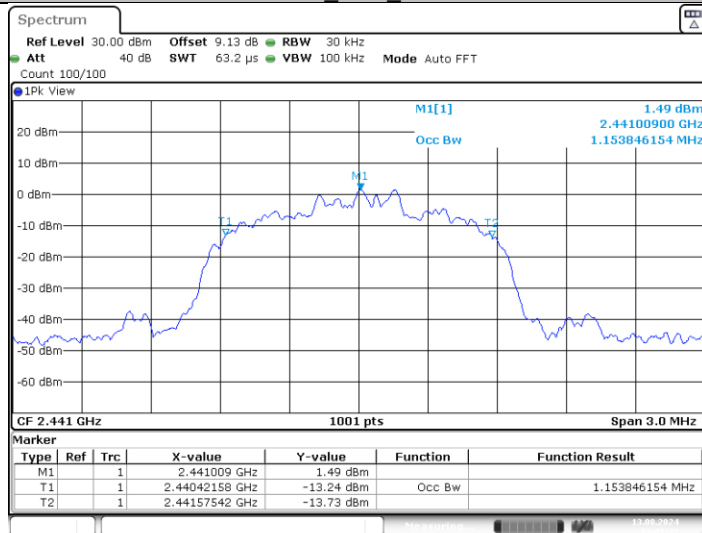
2DH5_Ant1_2480

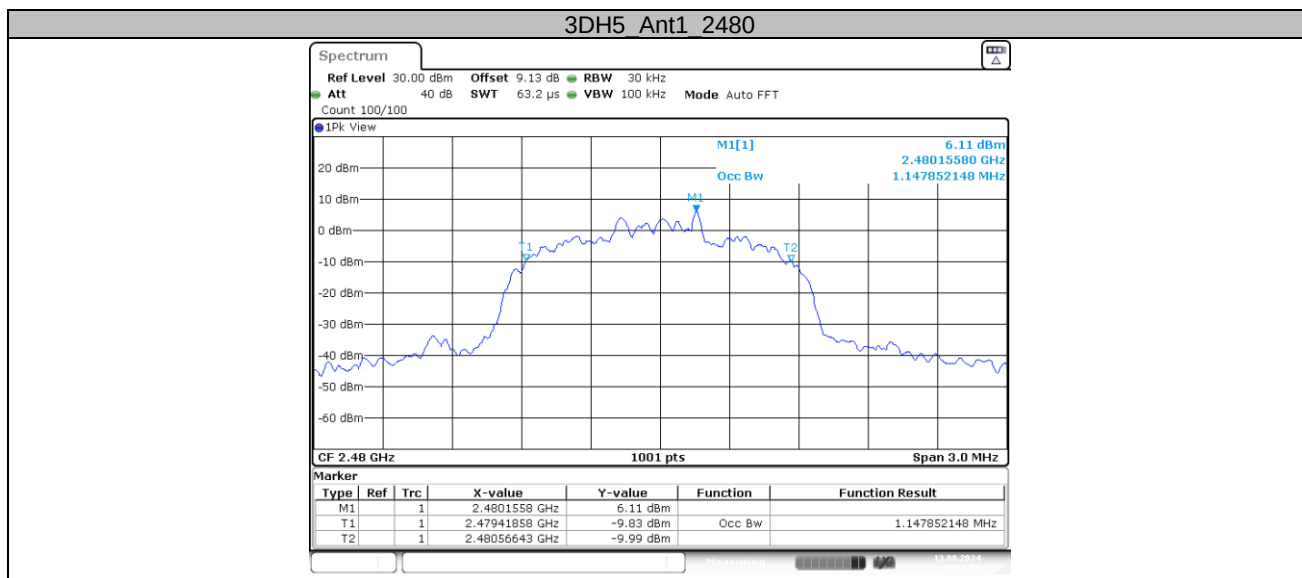


3DH5_Ant1_2402



3DH5_Ant1_2441





5. CARRIER FREQUENCY SEPARATION

5.1. Limit

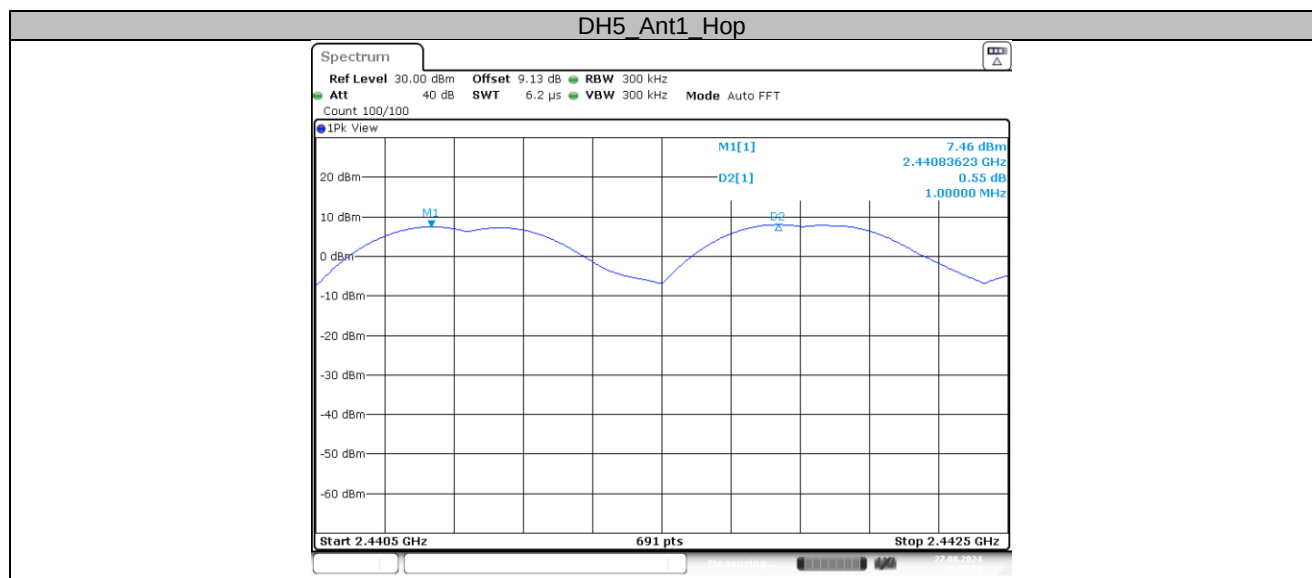
Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that 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 output power no greater than 125 mW. Please refer FCC part 15.247 & RSS-247.

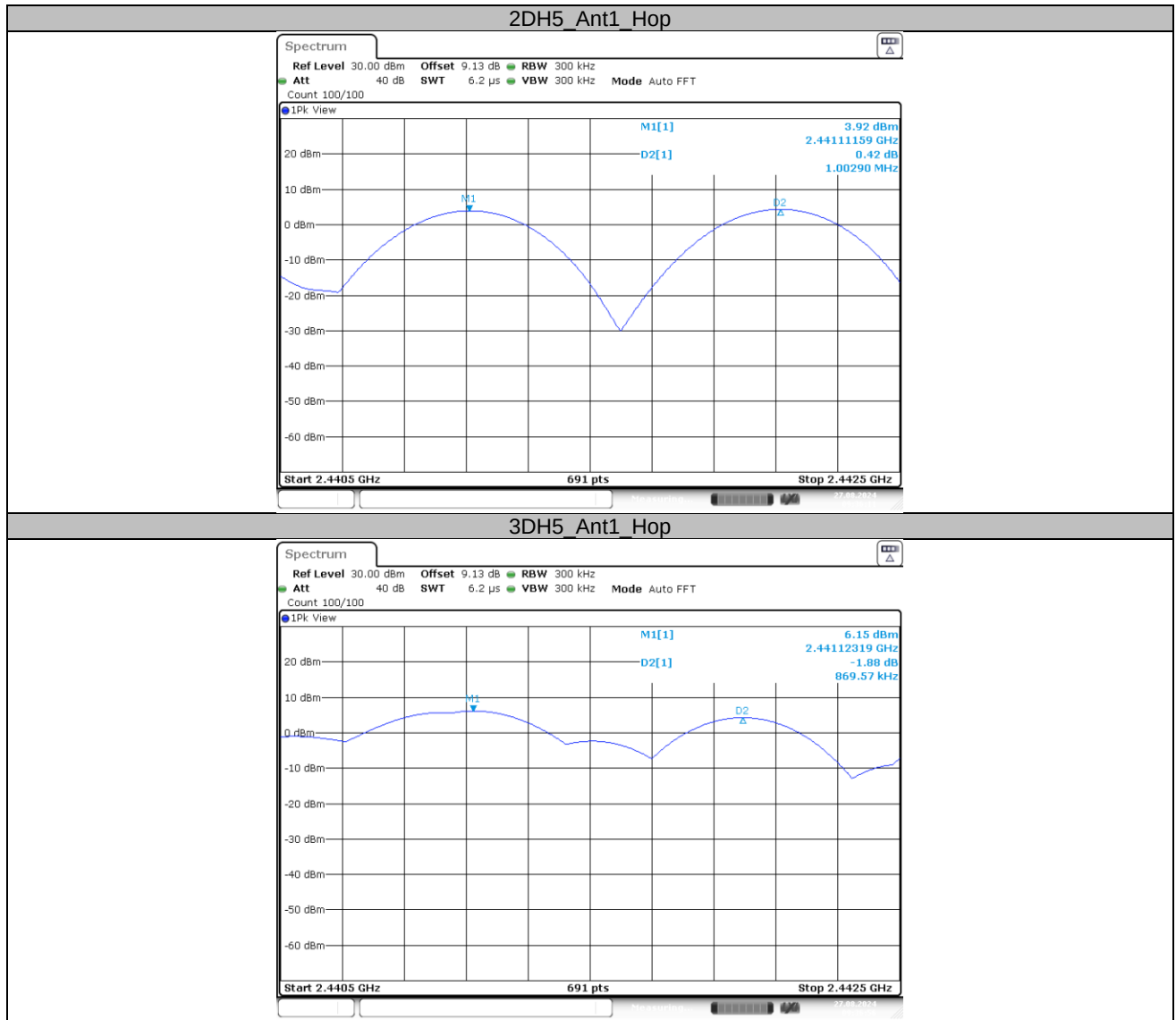
5.2. Test Procedure

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The carrier frequency was measured by spectrum analyzer with 30kHz RBW and 100kHz VBW. Compute the trace by integrating the spectrum, finally, maxhold displays the View

5.3. Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1	≥ 0.860	PASS
2DH5	Ant1	Hop	1.003	≥ 0.853	PASS
3DH5	Ant1	Hop	0.87	≥ 0.853	PASS





6. NUMBER OF HOPPING CHANNEL

6.1. Limit

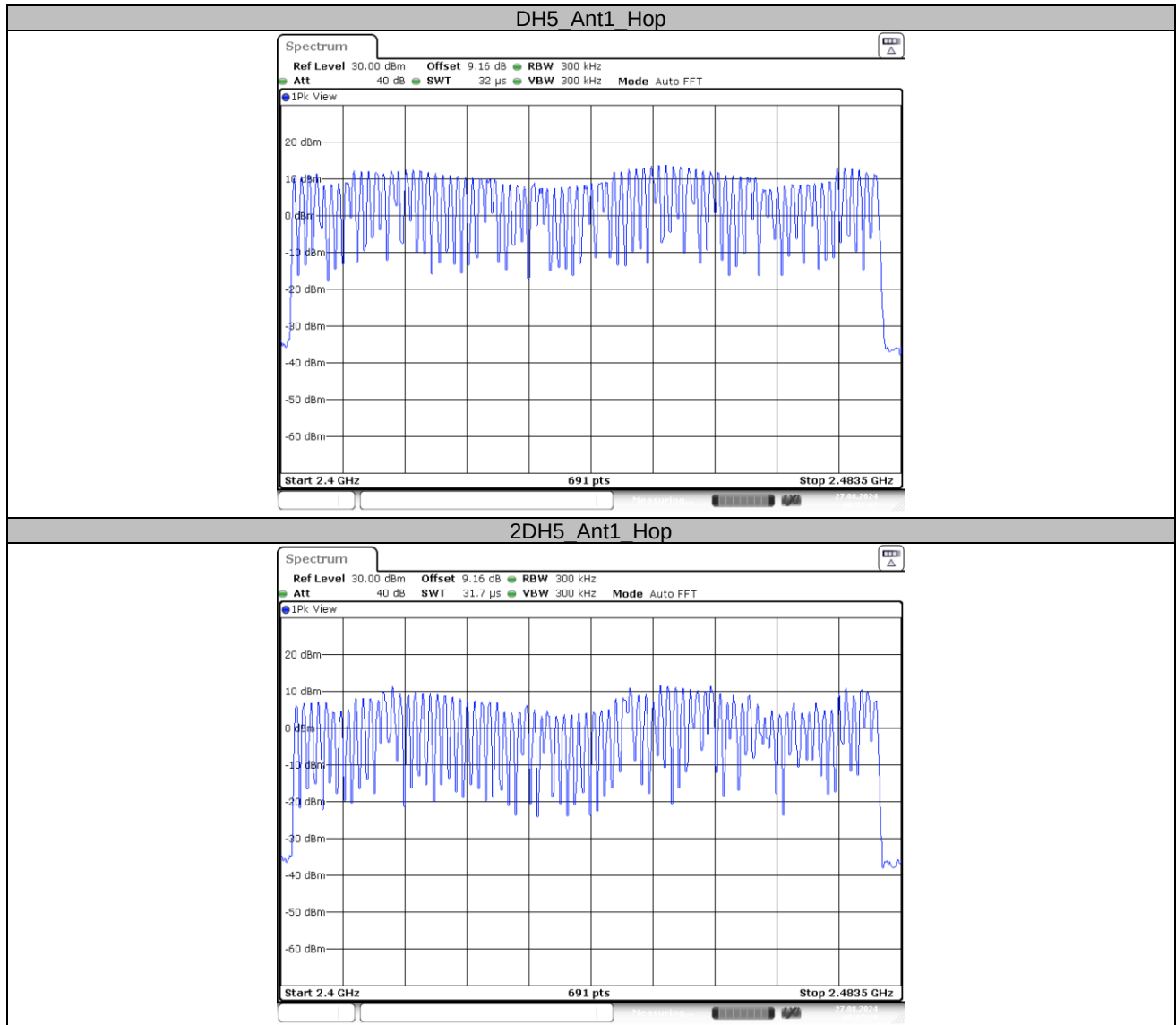
Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels
Please refer FCC part 15.247 & RSS-247

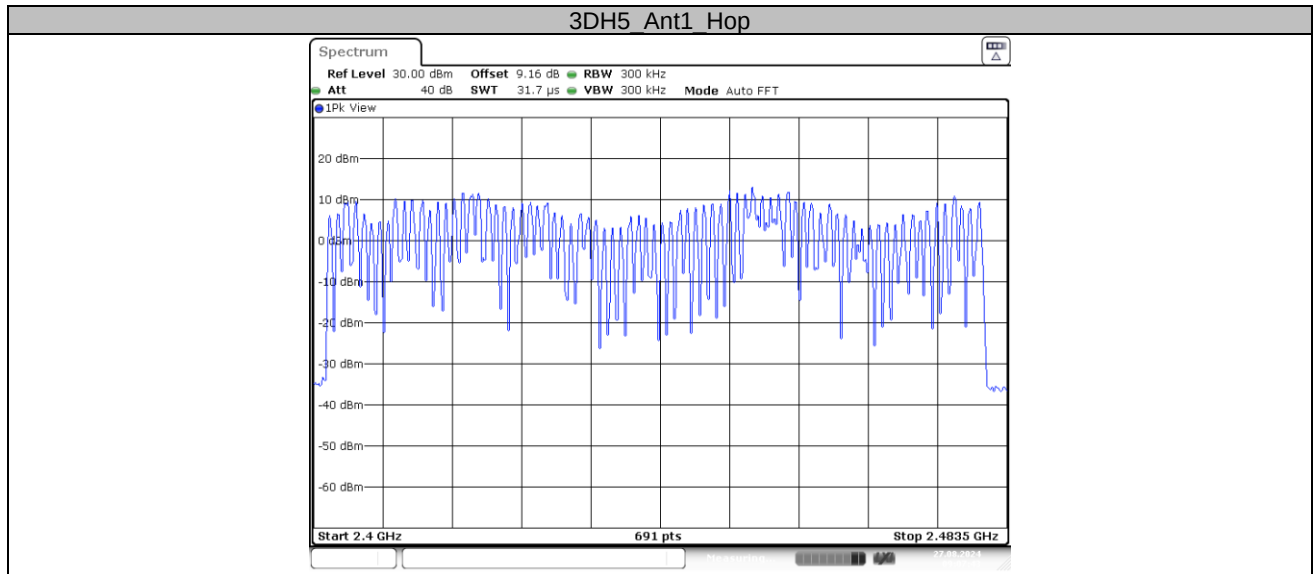
6.2. Test Procedure

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The number of hopping channel was measured by spectrum analyzer with 100kHz RBW and 300KHz VBW. Compute the trace by integrating the spectrum, finally, maxhold displays the View

6.3. Test Result

TestMode	Antenna	Freq(MHz)	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥ 15	PASS
2DH5	Ant1	Hop	79	≥ 15	PASS
3DH5	Ant1	Hop	79	≥ 15	PASS





7. DWELL TIME

7.1. Test limit

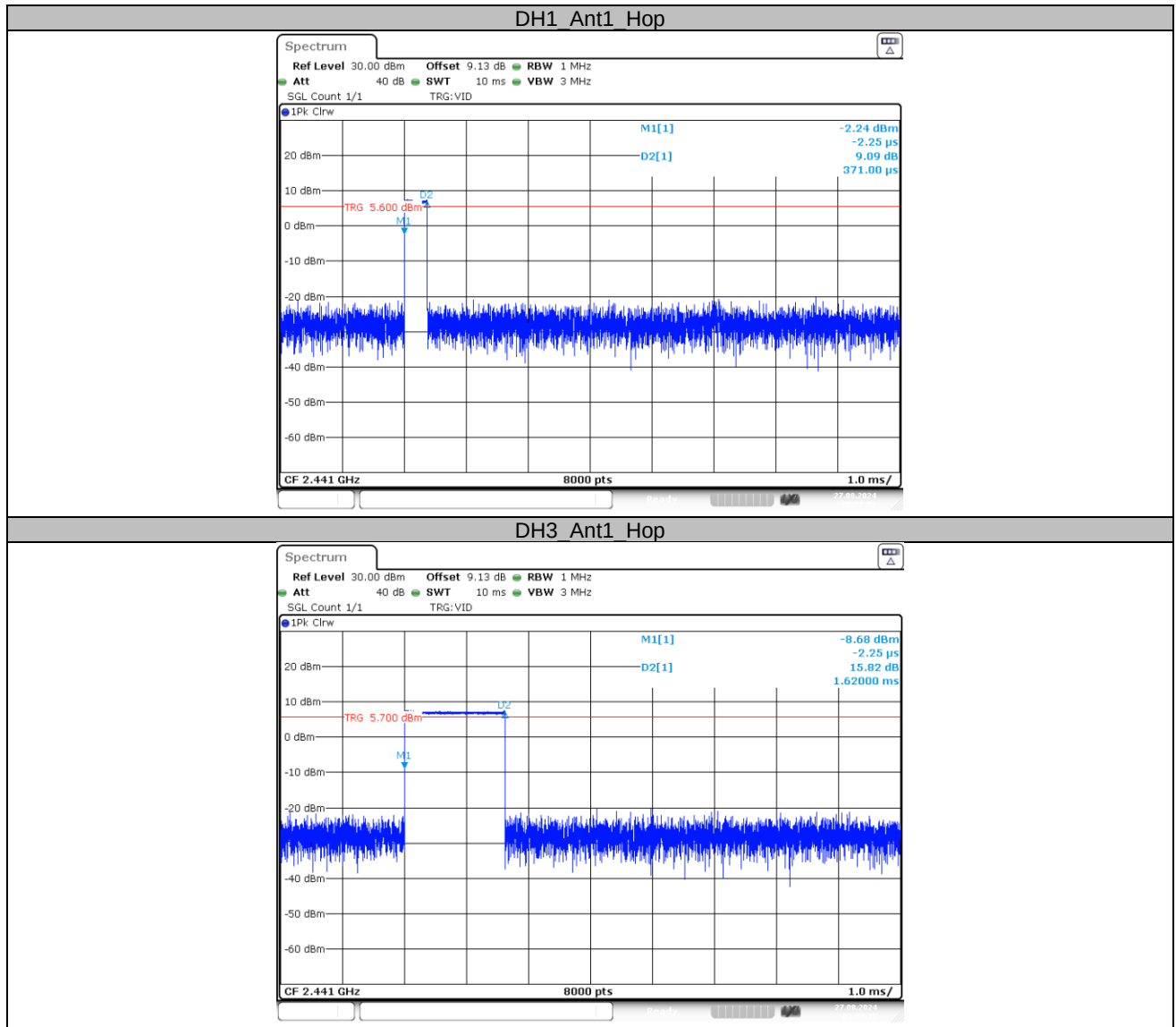
Please refer FCC part 15.247 & RSS-247. According to §15.247(a)(1)(iii), Frequency hopping systems operating in the 2400MHz-2483.5 MHz. The average time of occupancy on any frequency shall not greater than 0.4 s within period of 0.4 sec- onds multiplied by the number of hopping channel employed.

7.2. Test Procedure

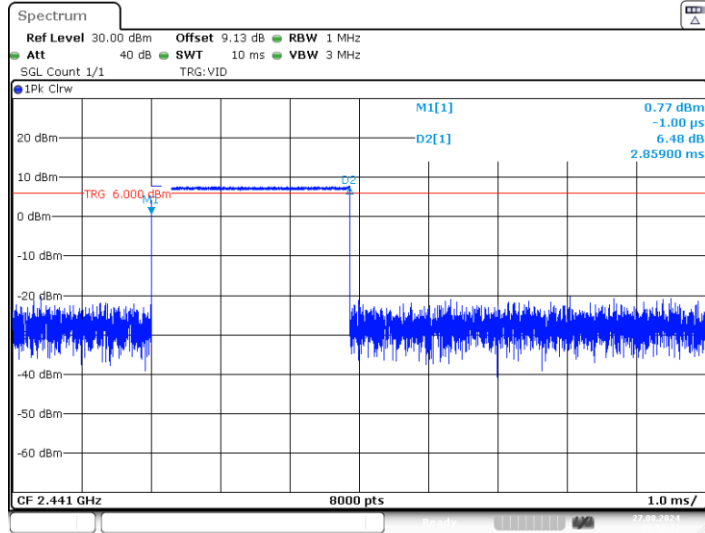
- 7.2.1. Place the EUT on the table and set it in transmitting mode.
- 7.2.2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 7.2.3. Set center frequency of spectrum analyzer = operating frequency.
- 7.2.4. Set the spectrum analyzer as RBW=1MHz, VBW=3MHz, Span = 0Hz, Sweep = auto.
- 7.2.5. Repeat above procedures until all frequency measured were complete.
- 7.2.6. Compute the trace by integrating the spectrum, finally, maxhold displays the View

7.3. Test Result

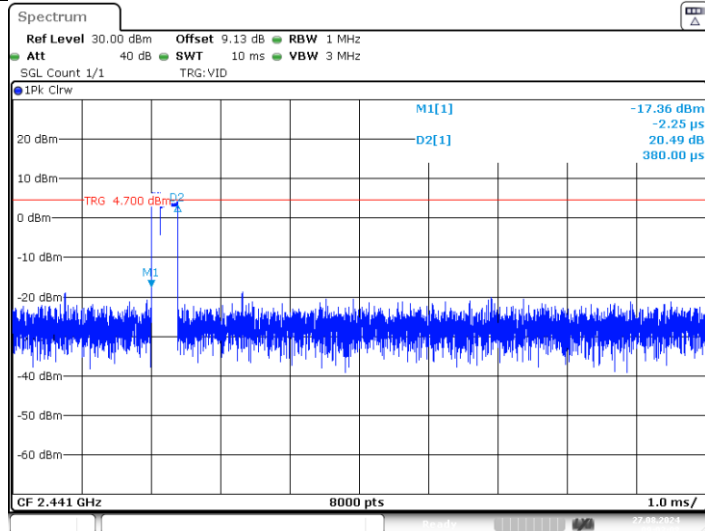
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.371	320	0.119	≤0.4	PASS
DH3	Ant1	Hop	1.620	160	0.259	≤0.4	PASS
DH5	Ant1	Hop	2.859	106.67	0.305	≤0.4	PASS
2DH1	Ant1	Hop	0.380	320	0.122	≤0.4	PASS
2DH3	Ant1	Hop	1.624	160	0.26	≤0.4	PASS
2DH5	Ant1	Hop	2.864	106.67	0.306	≤0.4	PASS
3DH1	Ant1	Hop	0.379	320	0.121	≤0.4	PASS
3DH3	Ant1	Hop	1.624	160	0.26	≤0.4	PASS
3DH5	Ant1	Hop	2.865	106.67	0.306	≤0.4	PASS

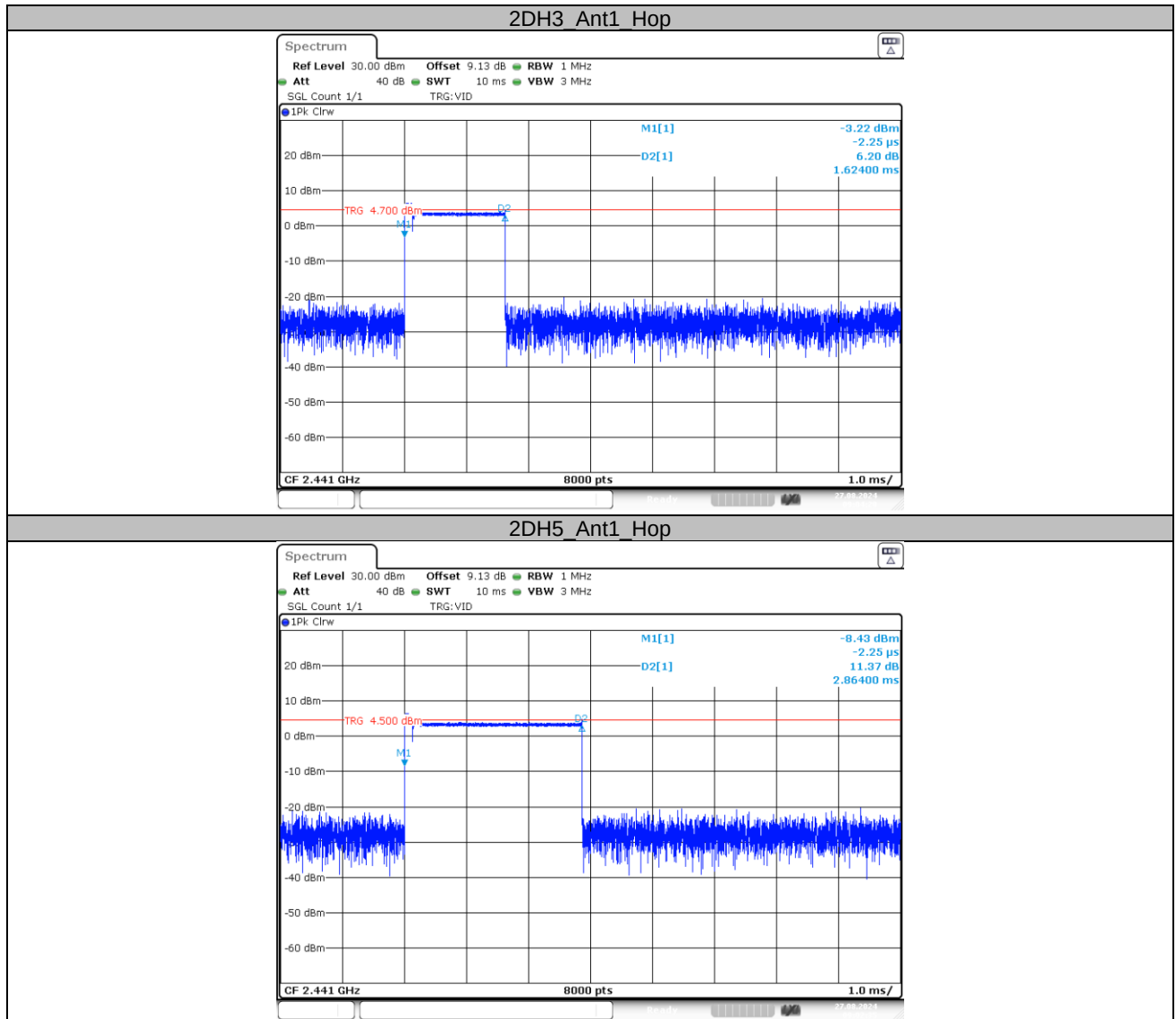


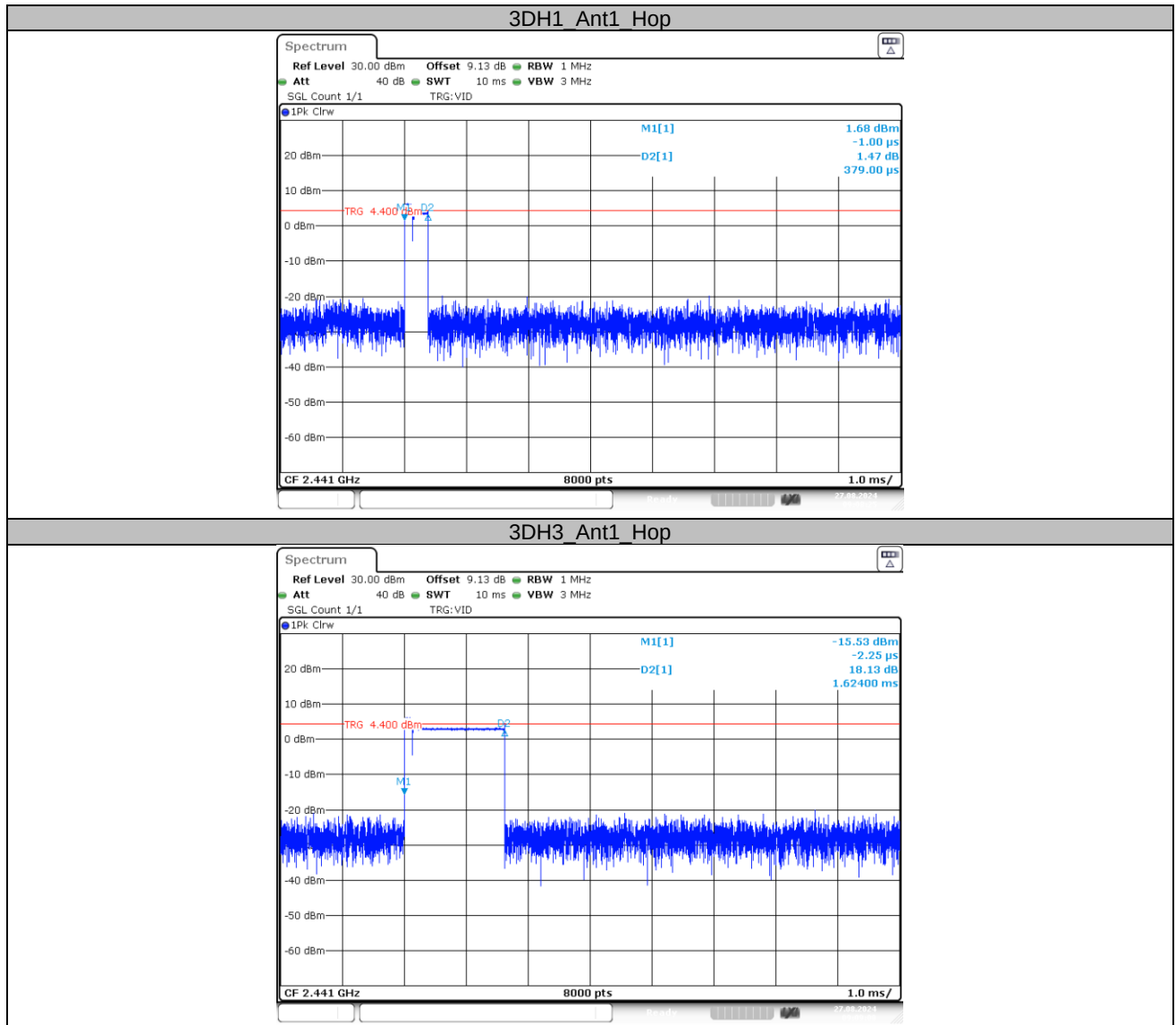
DH5_Ant1_Hop

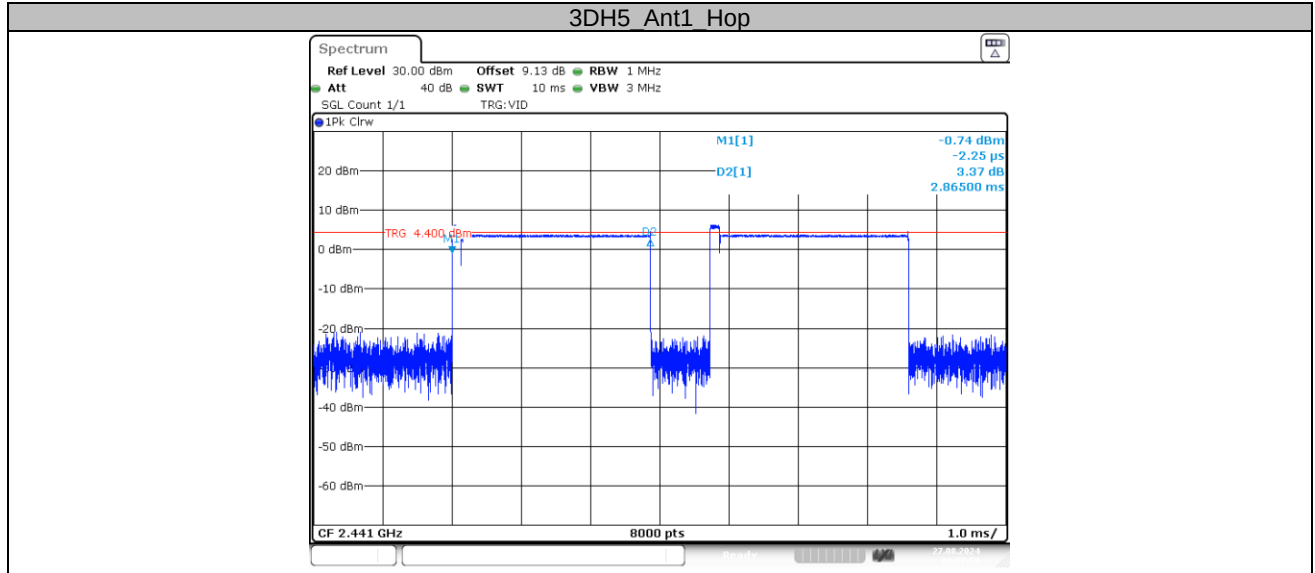


2DH1_Ant1_Hop









8. RADIATED EMISSIONS

8.1. Limit

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)

RSS-GEN Restricted frequency band

Table 7 – Restricted frequency bands^{Note 1}

MHz	MHz	GHz
0.090 - 0.110	149.9 - 150.05	9.0 - 9.2
0.495 - 0.505	156.52475 - 156.52525	9.3 - 9.5
2.1735 - 2.1905	156.7 - 156.9	10.6 - 12.7
3.020 - 3.026	162.0125 - 167.17	13.25 - 13.4
4.125 - 4.128	167.72 - 173.2	14.47 - 14.5
4.17725 - 4.17775	240 – 285	15.35 - 16.2
4.20725 - 4.20775	322 - 335.4	17.7 - 21.4
5.677 - 5.683	399.9 - 410	22.01 - 23.12
6.215 - 6.218	608 - 614	23.6 - 24.0

6.26775 - 6.26825	960 - 1427	31.2 - 31.8
6.31175 - 6.31225	1435 - 1626.5	36.43 - 36.5
8.291 - 8.294	1645.5 - 1646.5	Above 38.6
8.362 - 8.366	1660 - 1710	
8.37625 - 8.38675	1718.8 - 1722.2	
8.41425 - 8.41475	2200 - 2300	
12.29 - 12.293	2310 - 2390	
12.51975 - 12.52025	2483.5 - 2500	
12.57675 - 12.57725	2655 - 2900	
13.36 - 13.41	3260 – 3267	
16.42 - 16.423	3332 - 3339	
16.69475 - 16.69525	3345.8 - 3358	
16.80425 - 16.80475	3500 - 4400	
25.5 - 25.67	4500 - 5150	
37.5 - 38.25	5350 - 5460	
73 - 74.6	7250 - 7750	
74.8 - 75.2	8025 – 8500	
108 – 138		

Note 1: Certain frequency bands listed in table 7 and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSS.

15.209 Limit

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V}/\text{m}$	$\text{dB}(\mu\text{V})/\text{m}$
0.009-0.490	300	$2400/F(\text{KHz})$	/
0.490-1.705	30	$24000/F(\text{KHz})$	/
1.705-30	30	30	29.5
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	

Note: The peak limit is 20 dB higher than the average limit

Table 5 – General field strength limits at frequencies above 30 MHz

Frequency (MHz)	Field strength ($\mu\text{V}/\text{m}$ at 3 m)
30 – 88	100
88 – 216	150
216 – 960	200
Above 960	500

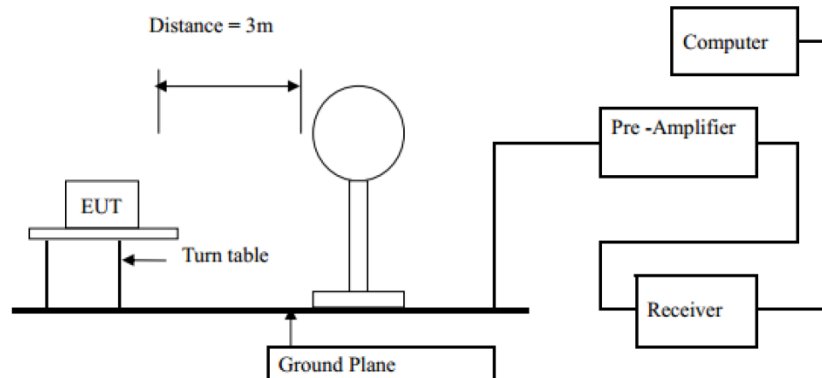
Table 6 – General field strength limits at frequencies below 30 MHz

Frequency	Magnetic field strength (H-Field) ($\mu\text{A}/\text{m}$)	Measurement distance (m)
9 - 490 kHz ^{Note 1}	$6.37/F$ (F in kHz)	300
490 - 1705 kHz	$63.7/F$ (F in kHz)	30
1.705 - 30 MHz	0.08	30

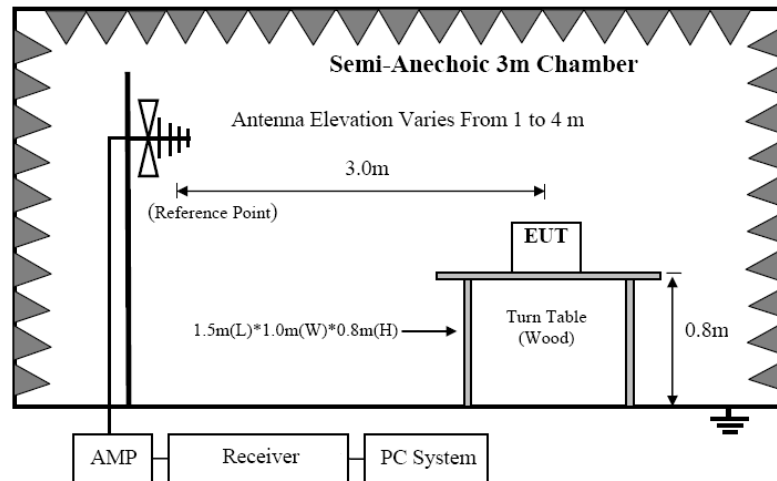
Note 1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

8.2. Block Diagram of Test setup

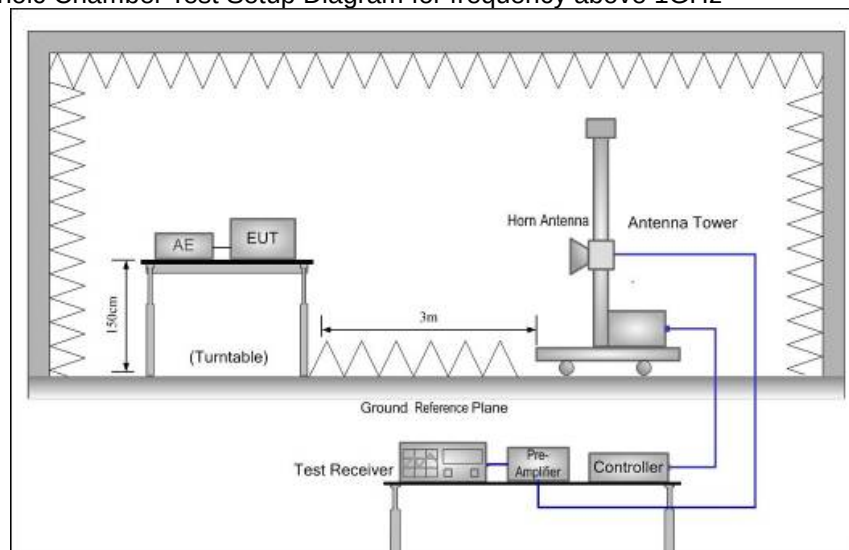
8.2.1 In 3m Anechoic Chamber Test Setup Diagram for below 30MHz



8.2.1 In 3m Anechoic Chamber Test Setup Diagram for below 1GHz



8.2.2 In 3m Anechoic Chamber Test Setup Diagram for frequency above 1GHz



Note: For harmonic emissions test a appropriate high pass filter was inserted in the input port of AMP.

8.3. Test Procedure

- (1) EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber.
- (2) Setup EUT and simulator as shown in section 1.4 and 6.1
- (3) Test antenna was located 3m from the EUT on an adjustable mast. Below pre-scan procedure was first performed in order to find prominent radiated emissions.
 - (a) Change work frequency or channel of device if practicable.
 - (b) Change modulation type of device if practicable.
 - (c) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions
- (4) Spectrum frequency from 9KHz to 25GHz (tenth harmonic of fundamental frequency) was investigated
- (5) For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10:2013on Radiated Emission test.
- (6) For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1MHz, VBW is set at 3MHz for Peak measure; RBW is set at 1MHz, VBW is set at 10Hz for Average measure.

8.4. Test Result

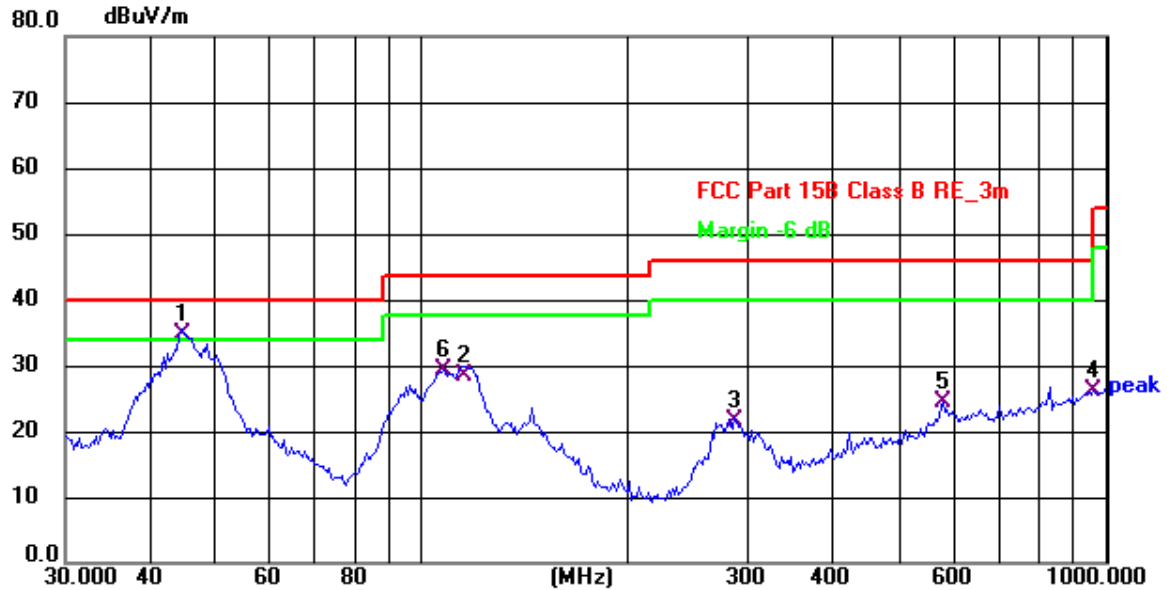
We have scanned the 10th harmonic from 9KHz to the EUT's highest frequency.
Detailed information please see the following page.

From 9KHz to 30MHz: Conclusion: PASS

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

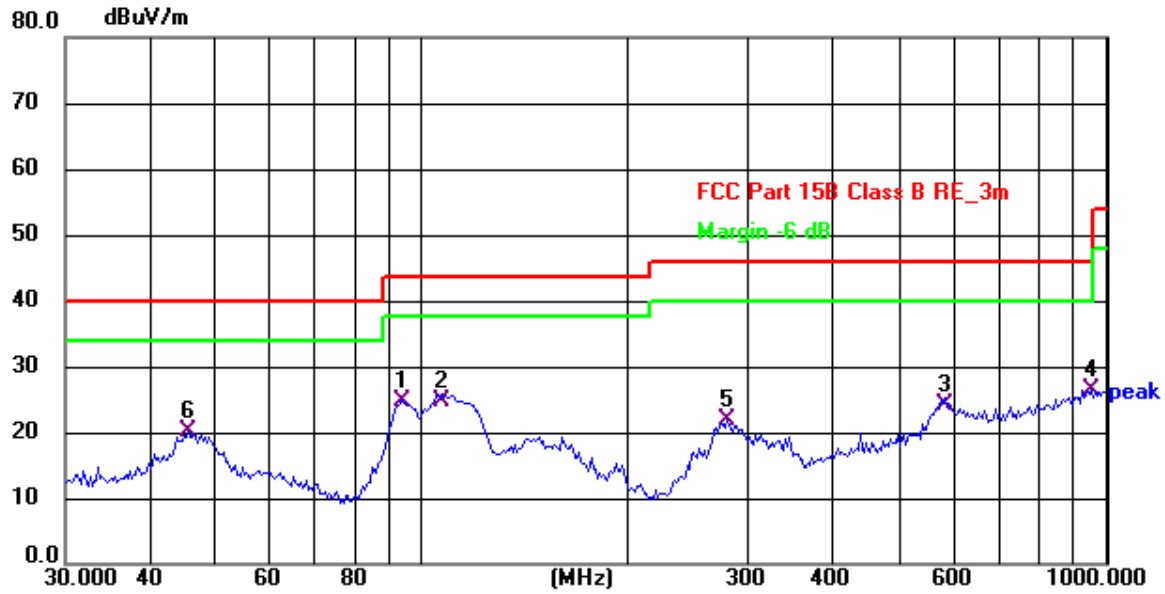
From 30MHz to 1000MHz: Conclusion: PASS

Vertical:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	44.431	46.76	-12.14	34.62	40.00	-5.38	QP	100	360	P	
2	115.320	42.38	-14.07	28.31	43.50	-15.19	QP	100	360	P	
3	286.982	32.80	-11.33	21.47	46.00	-24.53	QP	100	360	P	
4	958.794	26.16	-0.11	26.05	46.00	-19.95	QP	100	180	P	
5	578.670	30.22	-5.74	24.48	46.00	-21.52	QP	100	90	P	
6	107.510	44.21	-14.86	29.35	43.50	-14.15	QP	100	90	P	

Horizontal:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	93.440	41.00	-16.29	24.71	43.50	-18.79	QP	200	0	P	
2	106.759	39.51	-14.88	24.63	43.50	-18.87	QP	200	0	P	
3	582.742	29.78	-5.69	24.09	46.00	-21.91	QP	200	0	P	
4	952.094	26.71	-0.20	26.51	46.00	-19.49	QP	200	90	P	
5	279.044	33.60	-11.71	21.89	46.00	-24.11	QP	200	90	P	
6	45.375	32.36	-12.20	20.16	40.00	-19.84	QP	200	178	P	

Remark: All modes have been tested, and only worst data of GFSK mode, Channel 2402MHz was listed in this report.

From 1G-25GHz

All modes had been tested, only show the worst mode GFSK

Test Mode : GFSK TX Low								
No.	Freq MHz	Polarity	Reading (dBuV/m)	Correct Factor	Result (dBuV/m)	Limit (dBuV/m)	Margin	Remark
1	4804	V	88.36	-27.05	61.31	74	-12.69	Peak
2	4804	V	69.69	-27.05	42.64	54	-11.36	Avg
3	7206	--	--	--		--		--
4	9608	--	--	--		--		--
5	4804	H	90.74	-27.05	63.69	74	-10.31	Peak
6	4804	H	68.82	-27.05	41.77	54	-12.23	Avg
7	7206	--	--	--		--		--
8	9608	--	--	--		--		--
Test Mode : GFSK TX Mid								
1	4882	V	90.85	-27.84	63.01	74	-10.99	Peak
2	4882	V	70.74	-27.84	42.90	54	-11.10	Avg
3	7320	--	--	--		--		--
4	9760	--	--	--		--		--
5	4882	H	91.11	-27.84	63.27	74	-10.73	Peak
6	4882	H	71.66	-27.84	43.82	54	-10.18	Avg
7	7320	--	--	--		--		--
8	9760	--	--	--		--		--
Test Mode : GFSK TX High								
1	4960	V	90.73	-28.49	62.24	74	-11.76	Peak
2	4960	V	69.66	-28.49	41.17	54	-12.83	Avg
3	7440	--	--	--		--		--
4	9920	--	--	--		--		--
5	4960	H	91.28	-28.49	62.79	74	-11.21	Peak
6	4960	H	69.42	-28.49	40.93	54	-13.07	Avg
7	7440	--	--	--		--		--
8	9920	--	--	--		--	--	--

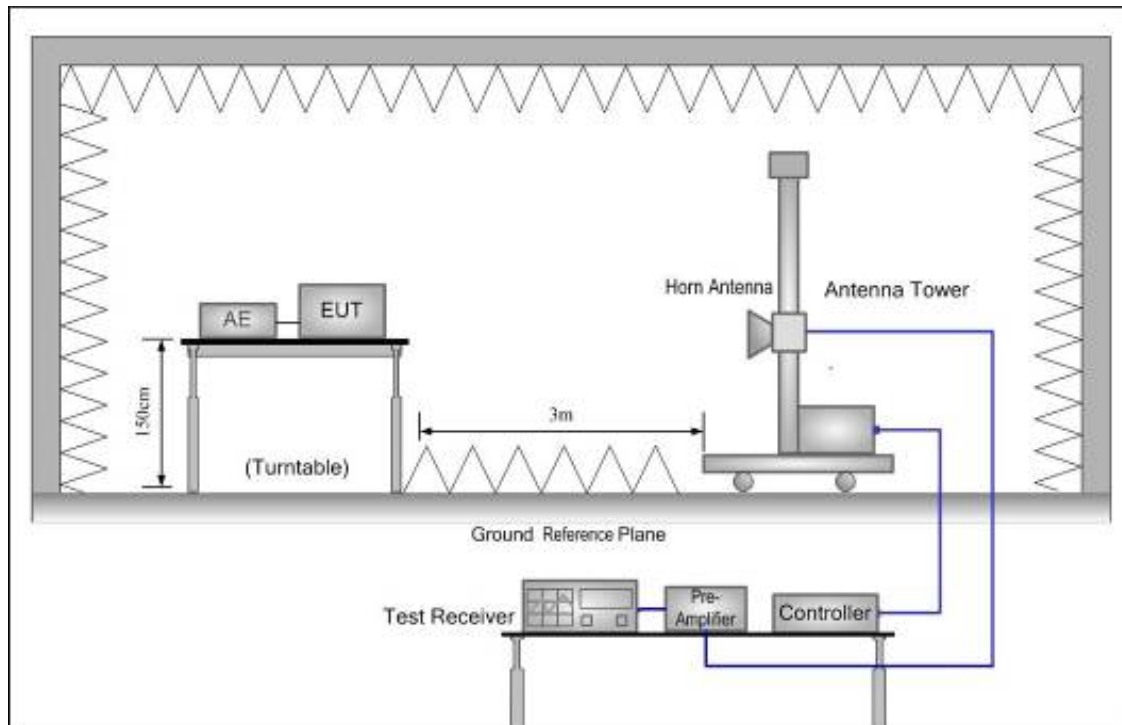
Note:

1, Result = Read level + Antenna factor + cable loss-Amp factor

2, All the other emissions not reported were too low to read and deemed to comply with FCC &RSS Gen limit.

9. BAND EDGE COMPLIANCE

9.1. Block Diagram of Test Setup



9.2. Limit

Radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

Please refer section RSS-GEN&15.247.

9.3. Test Procedure

All restriction band and non- restriction band have been tested , only worse case is reported.

9.4. Test Result

PASS. (See below detailed test data)

Test Results					PASS			
Frequency Range					2310MHz~2410MHz			
Test Mode					GFSK TX 2402MHz			
N o.	Freq MHz	Polarity	Reading (dBuV/m)	Correct Factor	Result (dBuV/m)	Limit (dBuV/m)	Margin	Remark
1	2390	H	74.64	-21.47	53.17	74.00	-20.83	Peak
2	2390	H	--	-21.47	--	54.00	--	Avg
3	2400	H	79.16	-26.12	53.04	74.00	-20.96	Peak
4	2400	H	--	-26.12	--	54.00	--	Avg
1	2390	V	74.39	-21.47	52.92	74.00	-21.08	Peak
2	2390	V	--	-21.47	--	54.00	--	Avg
3	2400	V	79.27	-26.12	53.15	74.00	-20.85	Peak
4	2400	V	--	-26.12	--	54.00	--	Avg
Test Results					PASS			
Frequency Range					2450MHz~2550MHz			
Test Mode					GFSK TX 2480MHz			
1	2483.5	H	78.90	-25.29	53.61	74.00	-20.39	Peak
2	2483.5	H	--	-25.29	--	54.00	--	Avg
1	2483.5	V	78.56	-25.29	53.27	74.00	-20.73	Peak
2	2483.5	V	--	-25.29	--	54.00	--	Avg
Note: 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin. 2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain. Result=Reading + Correct Factor. Margin= Result-Limit. 3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.								

Test Results					PASS			
Frequency Range					2310MHz~2410MHz			
Test Mode					$\pi/4$ DQPSK TX 2402MHz			
N o.	Freq MHz	Polarity	Reading (dBuV/m)	Correct Factor	Result (dBuV/m)	Limit (dBuV/m)	Margin	Remark
1	2390	H	74.31	-21.47	52.84	74.00	-21.16	Peak
2	2390	H	--	-21.47	--	54.00	--	Avg
3	2400	H	78.75	-26.12	52.63	74.00	-21.37	Peak
4	2400	H	--	-26.12	--	54.00	--	Avg
1	2390	V	74.73	-21.47	53.26	74.00	-20.74	Peak
2	2390	V	--	-21.47	--	54.00	--	Avg
3	2400	V	78.68	-26.12	52.56	74.00	-21.44	Peak
4	2400	V	--	-26.12	--	54.00	--	Avg
Test Results					PASS			
Frequency Range					2450MHz~2550MHz			
Test Mode					$\pi/4$ DQPSK TX 2480MHz			
1	2483.5	H	78.76	-25.29	53.47	74.00	-20.53	Peak
2	2483.5	H	--	-25.29	--	54.00	--	Avg
1	2483.5	V	79.15	-25.29	53.86	74.00	-20.14	Peak
2	2483.5	V	--	-25.29	--	54.00	--	Avg
Note: 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin. 2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain. Result=Reading + Correct Factor. Margin= Result-Limit. 3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.								

Test Results					PASS			
Frequency Range					2310MHz~2410MHz			
Test Mode					8DPSK TX 2402MHz			
N o.	Freq MHz	Polarity	Reading (dBuV/m)	Correct Factor	Result (dBuV/m)	Limit (dBuV/m)	Margin	Remark
1	2390	H	74.38	-21.47	52.91	74.00	-21.09	Peak
2	2390	H	--	-21.47	--	54.00	--	Avg
3	2400	H	78.81	-26.12	52.69	74.00	-21.31	Peak
4	2400	H	--	-26.12	--	54.00	--	Avg
1	2390	V	74.58	-21.47	53.11	74.00	-20.89	Peak
2	2390	V	--	-21.47	--	54.00	--	Avg
3	2400	V	79.09	-26.12	52.97	74.00	-21.03	Peak
4	2400	V	--	-26.12	--	54.00	--	Avg
Test Results					PASS			
Frequency Range					2450MHz~2550MHz			
Test Mode					8DPSK TX 2480MHz			
1	2483.5	H	78.60	-25.29	53.31	74.00	-20.69	Peak
2	2483.5	H	--	-25.29	--	54.00	--	Avg
1	2483.5	V	78.49	-25.29	53.20	74.00	-20.80	Peak
2	2483.5	V	--	-25.29	--	54.00	--	Avg
Note: 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin. 2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain. Result=Reading + Correct Factor. Margin= Result-Limit. 3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.								

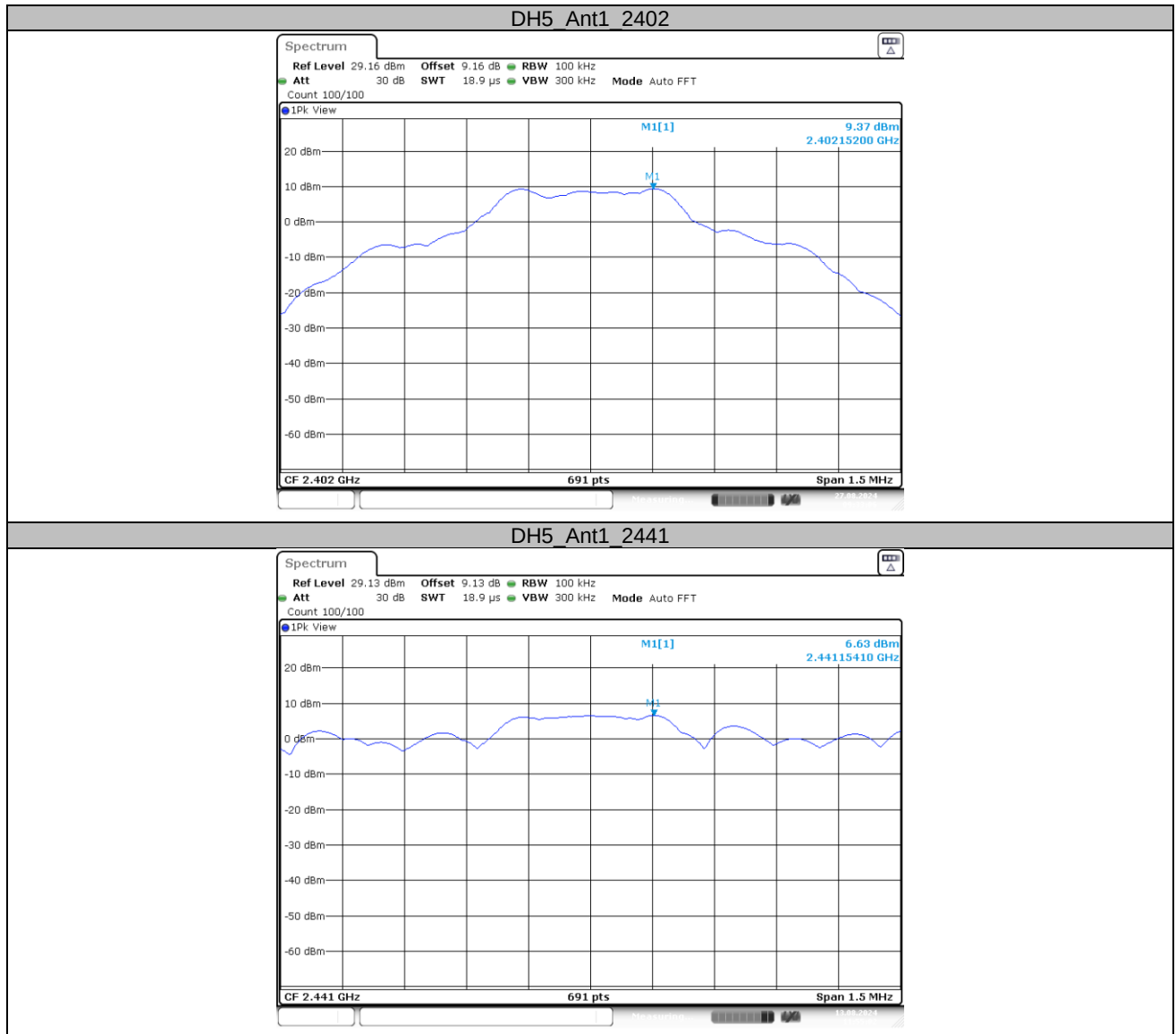
Test Results					PASS			
Frequency Range					2310MHz~2410MHz			
Test Mode					GFSK Hopping			
N o.	Freq MHz	Polarity	Reading (dBuV/m)	Correct Factor	Result (dBuV/m)	Limit (dBuV/m)	Margin	Remark
1	2390	H	74.62	-21.47	53.15	74.00	-20.85	Peak
2	2390	H	--	-21.47	--	54.00	--	Avg
3	2400	H	79.00	-26.12	52.88	74.00	-21.12	Peak
4	2400	H	--	-26.12	--	54.00	--	Avg
1	2390	V	74.85	-21.47	53.38	74.00	-20.62	Peak
2	2390	V	--	-21.47	--	54.00	--	Avg
3	2400	V	78.73	-26.12	52.61	74.00	-21.39	Peak
4	2400	V	--	-26.12	--	54.00	--	Avg
Test Results					PASS			
Frequency Range					2450MHz~2550MHz			
Test Mode					GFSK Hopping			
1	2483.5	H	79.24	-25.29	53.95	74.00	-20.05	Peak
2	2483.5	H	--	-25.29	--	54.00	--	Avg
1	2483.5	V	78.51	-25.29	53.22	74.00	-20.78	Peak
2	2483.5	V	--	-25.29	--	54.00	--	Avg
Note: 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin. 2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain. Result=Reading + Correct Factor. Margin= Result-Limit. 3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.								

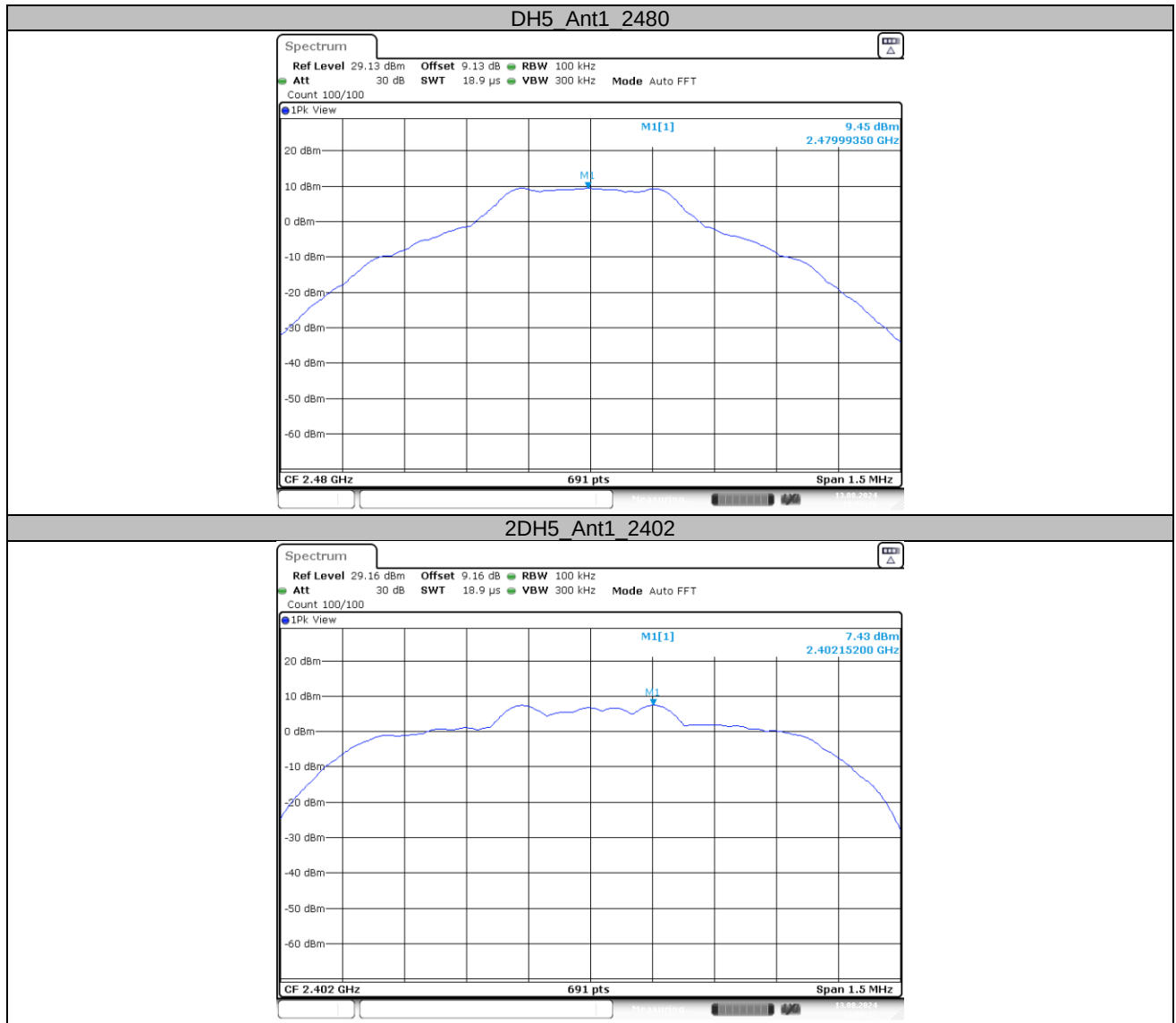
Test Results					PASS			
Frequency Range					2310MHz~2410MHz			
Test Mode					$\pi/4$ DQPSK Hopping			
N o.	Freq MHz	Polarity	Reading (dBuV/m)	Correct Factor	Result (dBuV/m)	Limit (dBuV/m)	Margin	Remark
1	2390	H	75.11	-21.47	53.64	74.00	-20.36	Peak
2	2390	H	--	-21.47	--	54.00	--	Avg
3	2400	H	79.33	-26.12	53.21	74.00	-20.79	Peak
4	2400	H	--	-26.12	--	54.00	--	Avg
1	2390	V	74.89	-21.47	53.42	74.00	-20.58	Peak
2	2390	V	--	-21.47	--	54.00	--	Avg
3	2400	V	79.28	-26.12	53.16	74.00	-20.84	Peak
4	2400	V	--	-26.12	--	54.00	--	Avg
Test Results					PASS			
Frequency Range					2450MHz~2550MHz			
Test Mode					$\pi/4$ DQPSK Hopping			
1	2483.5	H	78.47	-25.29	53.18	74.00	-20.82	Peak
2	2483.5	H	--	-25.29	--	54.00	--	Avg
1	2483.5	V	78.74	-25.29	53.45	74.00	-20.55	Peak
2	2483.5	V	--	-25.29	--	54.00	--	Avg
Note: 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin. 2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain. Result=Reading + Correct Factor. Margin= Result-Limit. 3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.								

Test Results					PASS			
Frequency Range					2310MHz~2410MHz			
Test Mode					8DPSK Hopping			
N o.	Freq MHz	Polarity	Reading (dBuV/m)	Correct Factor	Result (dBuV/m)	Limit (dBuV/m)	Margin	Remark
1	2390	H	74.55	-21.47	53.08	74.00	-20.92	Peak
2	2390	H	--	-21.47	--	54.00	--	Avg
3	2400	H	79.06	-26.12	52.94	74.00	-21.06	Peak
4	2400	H	--	-26.12	--	54.00	--	Avg
1	2390	V	74.53	-21.47	53.06	74.00	-20.94	Peak
2	2390	V	--	-21.47	--	54.00	--	Avg
3	2400	V	79.11	-26.12	52.99	74.00	-21.01	Peak
4	2400	V	--	-26.12	--	54.00	--	Avg
Test Results					PASS			
Frequency Range					2450MHz~2550MHz			
Test Mode					8DPSK Hopping			
1	2483.5	H	78.46	-25.29	53.17	74.00	-20.83	Peak
2	2483.5	H	--	-25.29	--	54.00	--	Avg
1	2483.5	V	79.14	-25.29	53.85	74.00	-20.15	Peak
2	2483.5	V	--	-25.29	--	54.00	--	Avg
Note: 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin. 2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain. Result=Reading + Correct Factor. Margin= Result-Limit. 3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.								

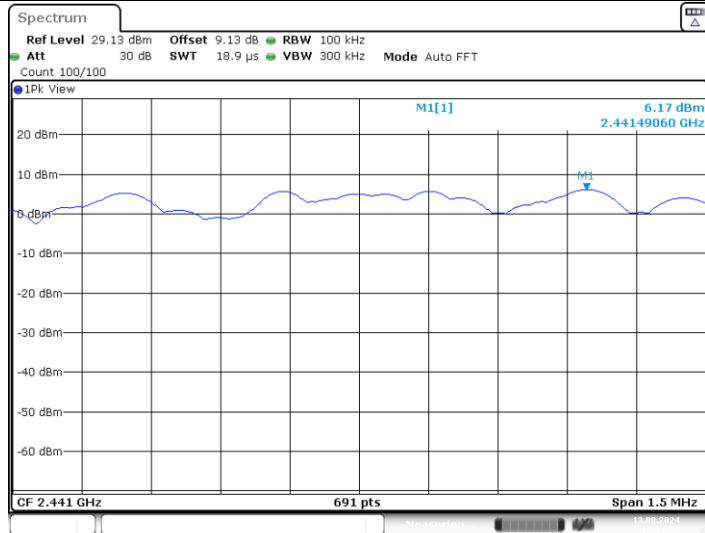
Reference level measurement

TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
DH5	Ant1	2402	2402.15	9.37
		2441	2441.15	6.63
		2480	2479.99	9.45
2DH5	Ant1	2402	2402.15	7.43
		2441	2441.49	6.17
		2480	2479.84	8.93
3DH5	Ant1	2402	2402.15	7.23
		2441	2441.15	5.57
		2480	2480.15	8.41

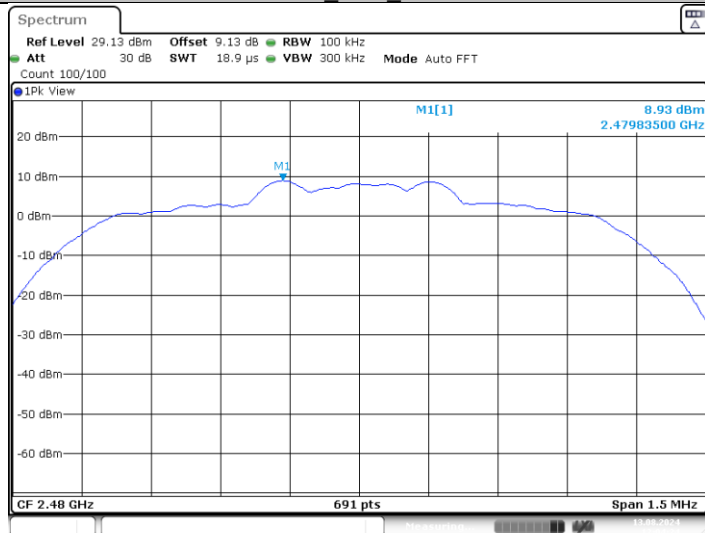




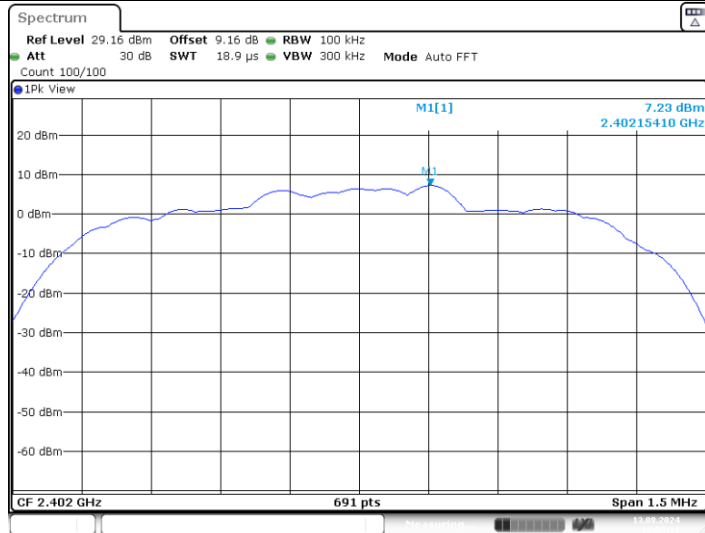
2DH5_Ant1_2441



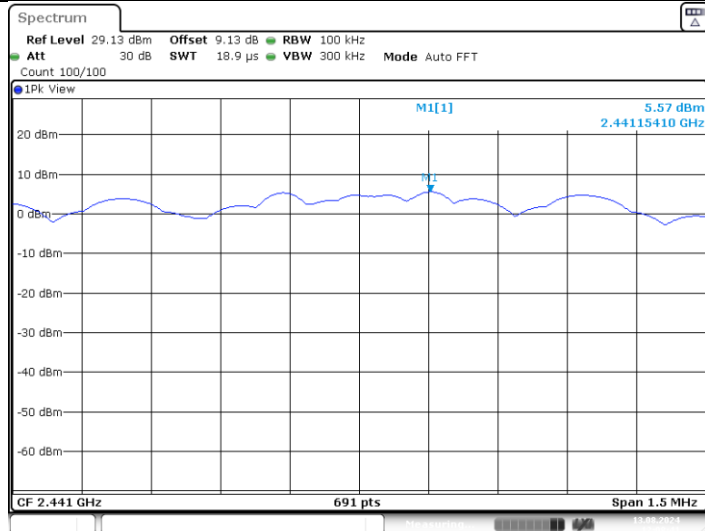
2DH5_Ant1_2480

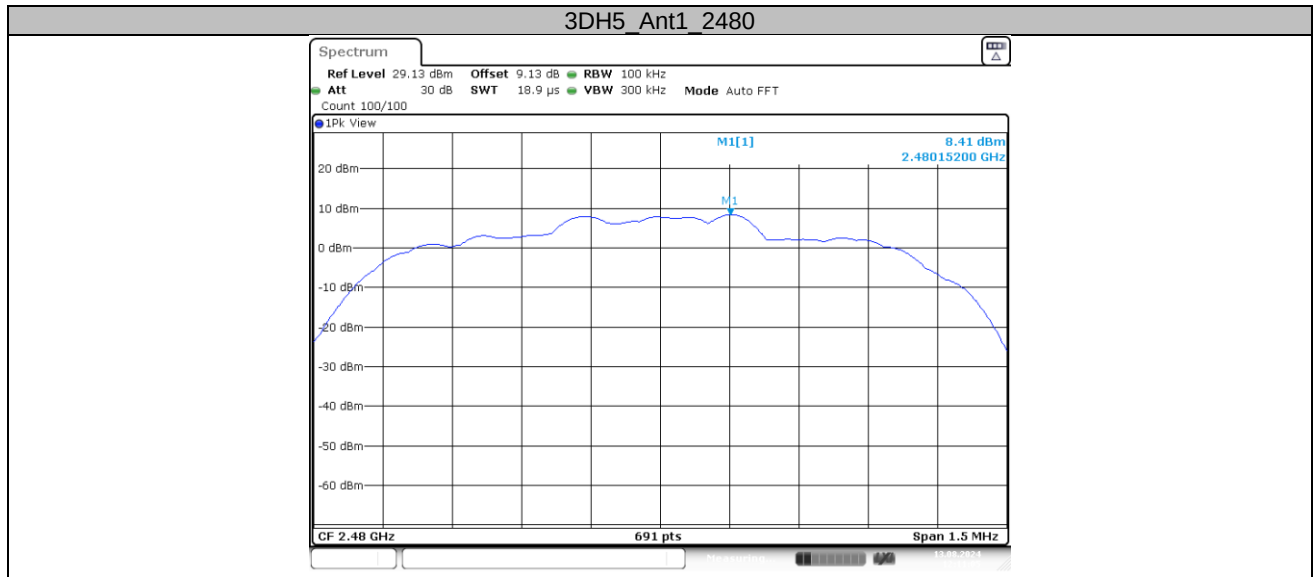


3DH5_Ant1_2402



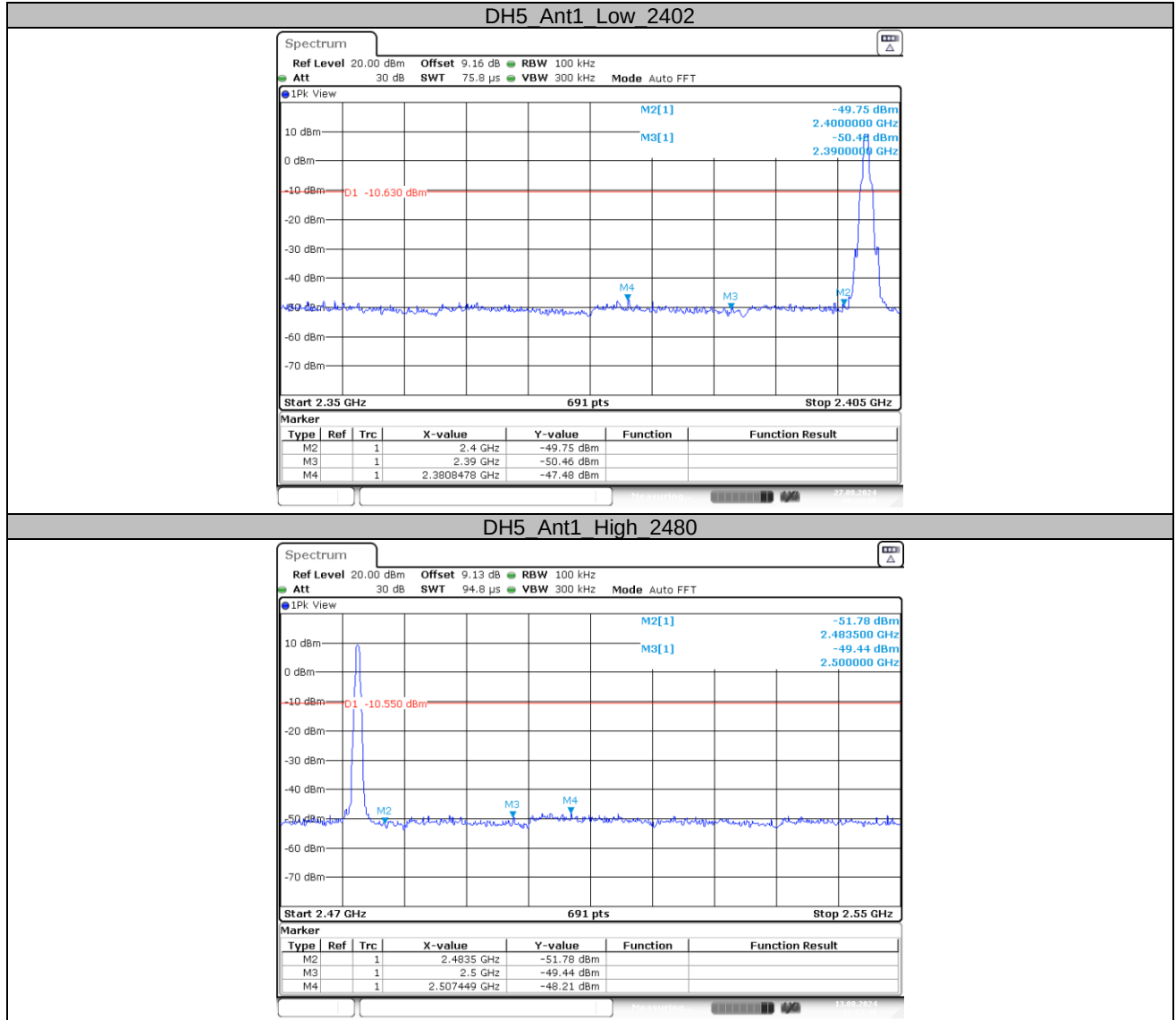
3DH5_Ant1_2441

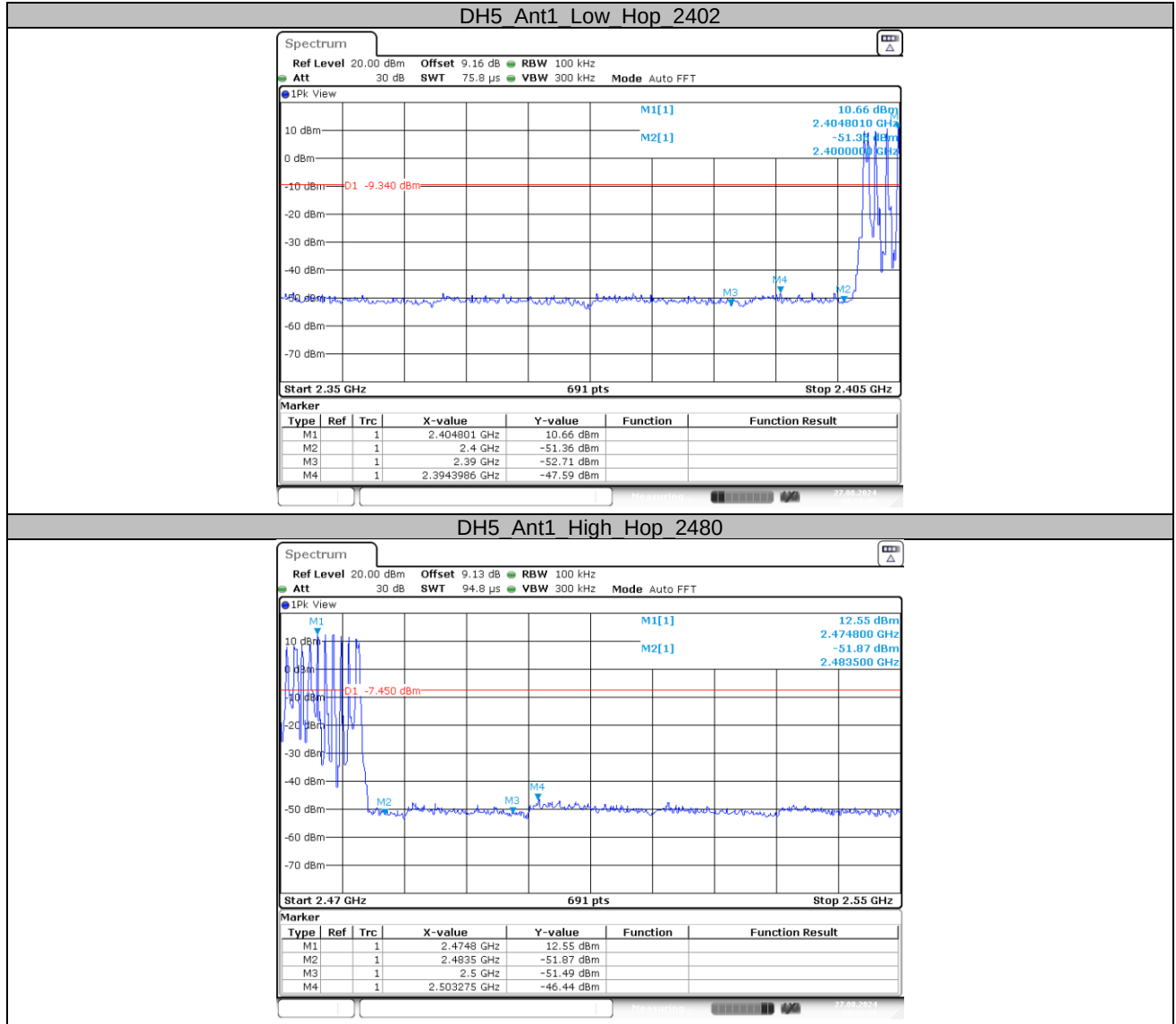




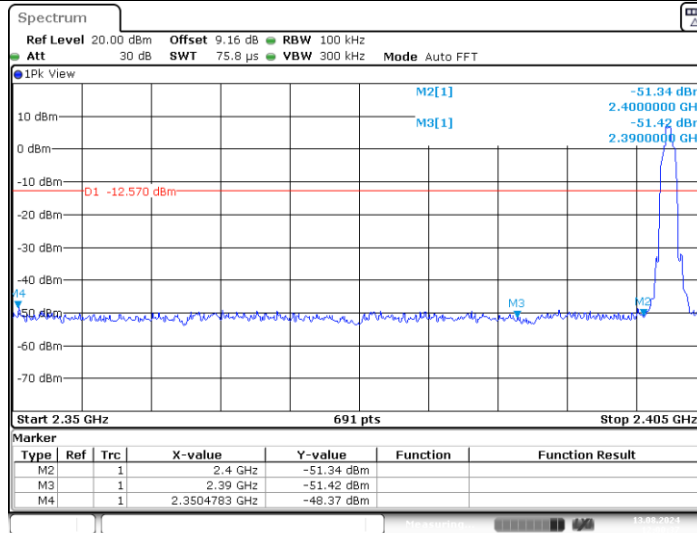
Conducted Method

TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	9.37	-47.48	≤-10.63	PASS
		High	2480	9.45	-48.21	≤-10.55	PASS
		Low	Hop_2402	10.66	-47.59	≤-9.34	PASS
		High	Hop_2480	12.55	-46.44	≤-7.45	PASS
2DH5	Ant1	Low	2402	7.43	-48.37	≤-12.57	PASS
		High	2480	8.93	-47.57	≤-11.07	PASS
		Low	Hop_2402	6.64	-47.99	≤-13.36	PASS
		High	Hop_2480	9.17	-46.51	≤-10.83	PASS
3DH5	Ant1	Low	2402	7.23	-48.77	≤-12.77	PASS
		High	2480	8.41	-47.69	≤-11.59	PASS
		Low	Hop_2402	7.55	-47.62	≤-12.45	PASS
		High	Hop_2480	9.15	-47.43	≤-10.85	PASS

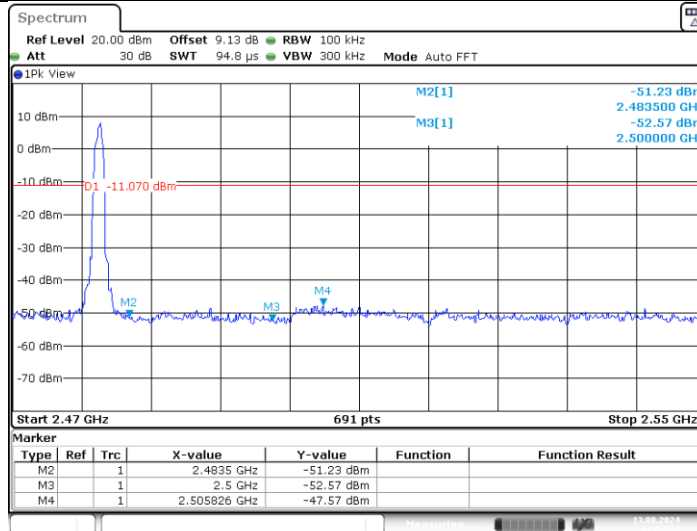


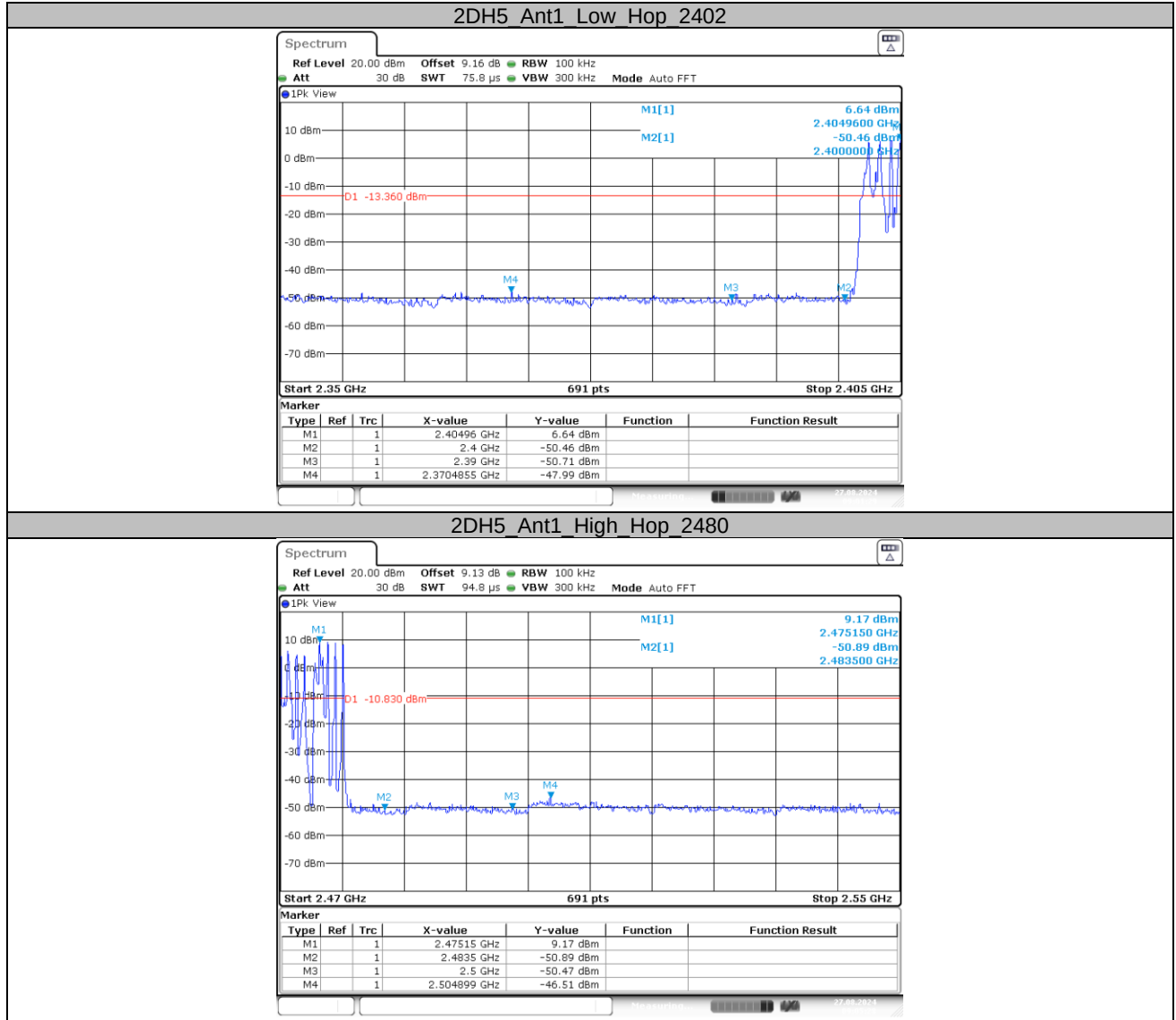


2DH5_Ant1_Low_2402

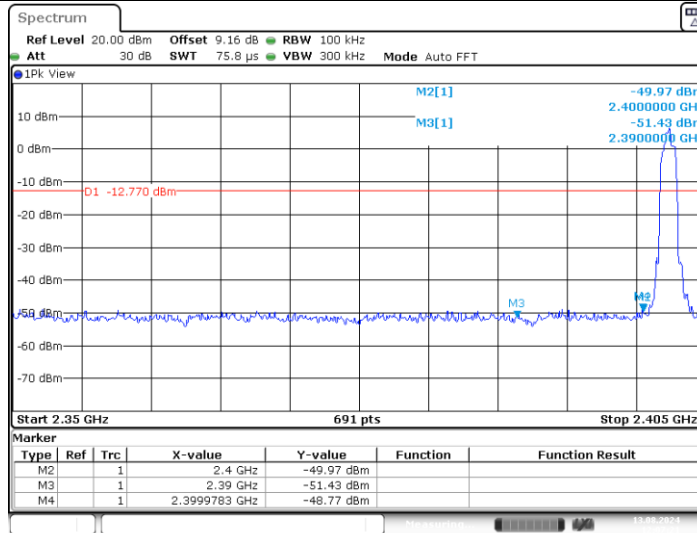


2DH5_Ant1_High_2480

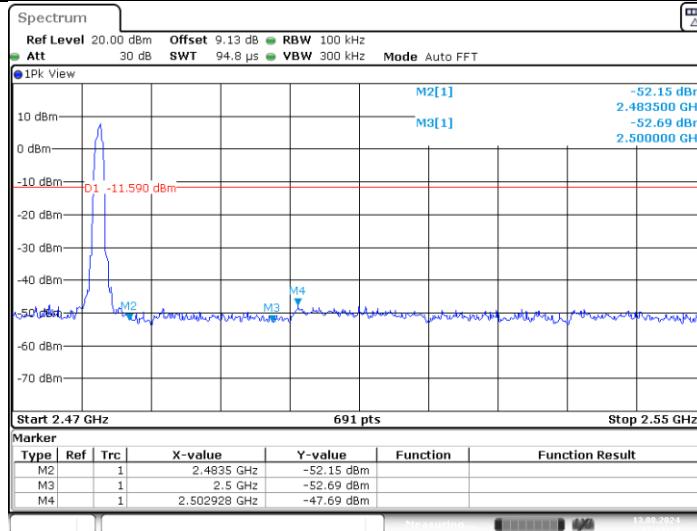


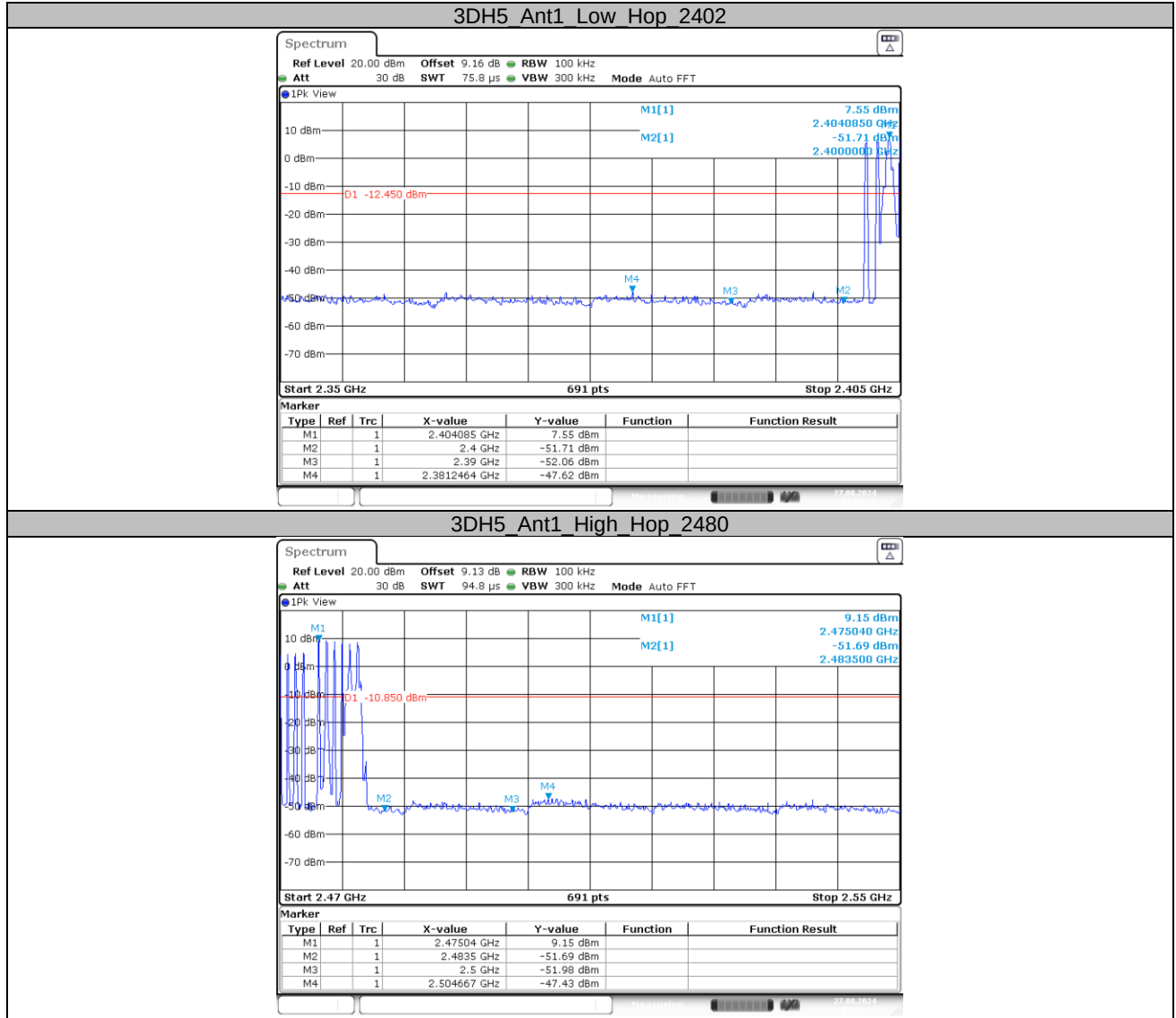


3DH5_Ant1_Low_2402

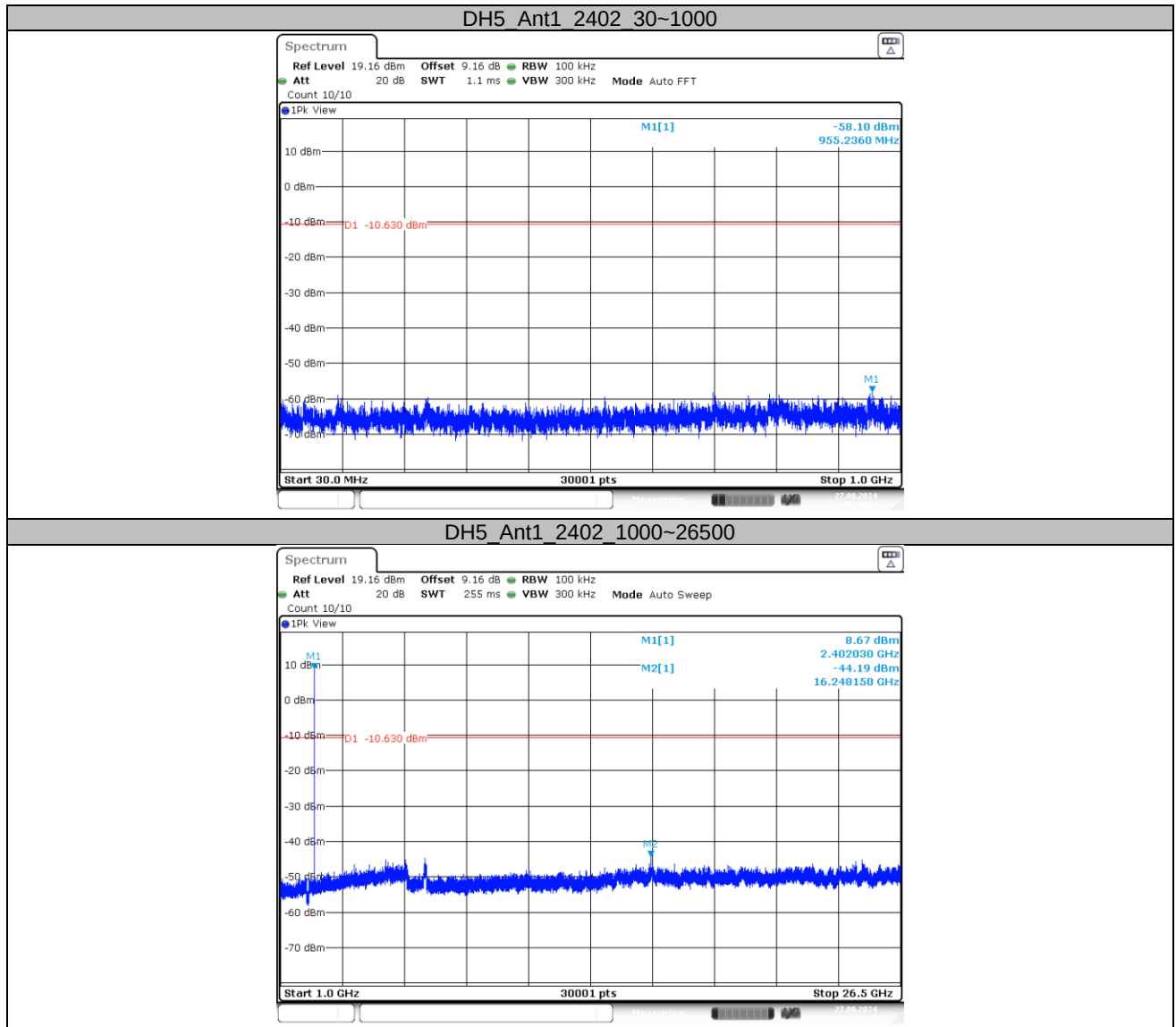


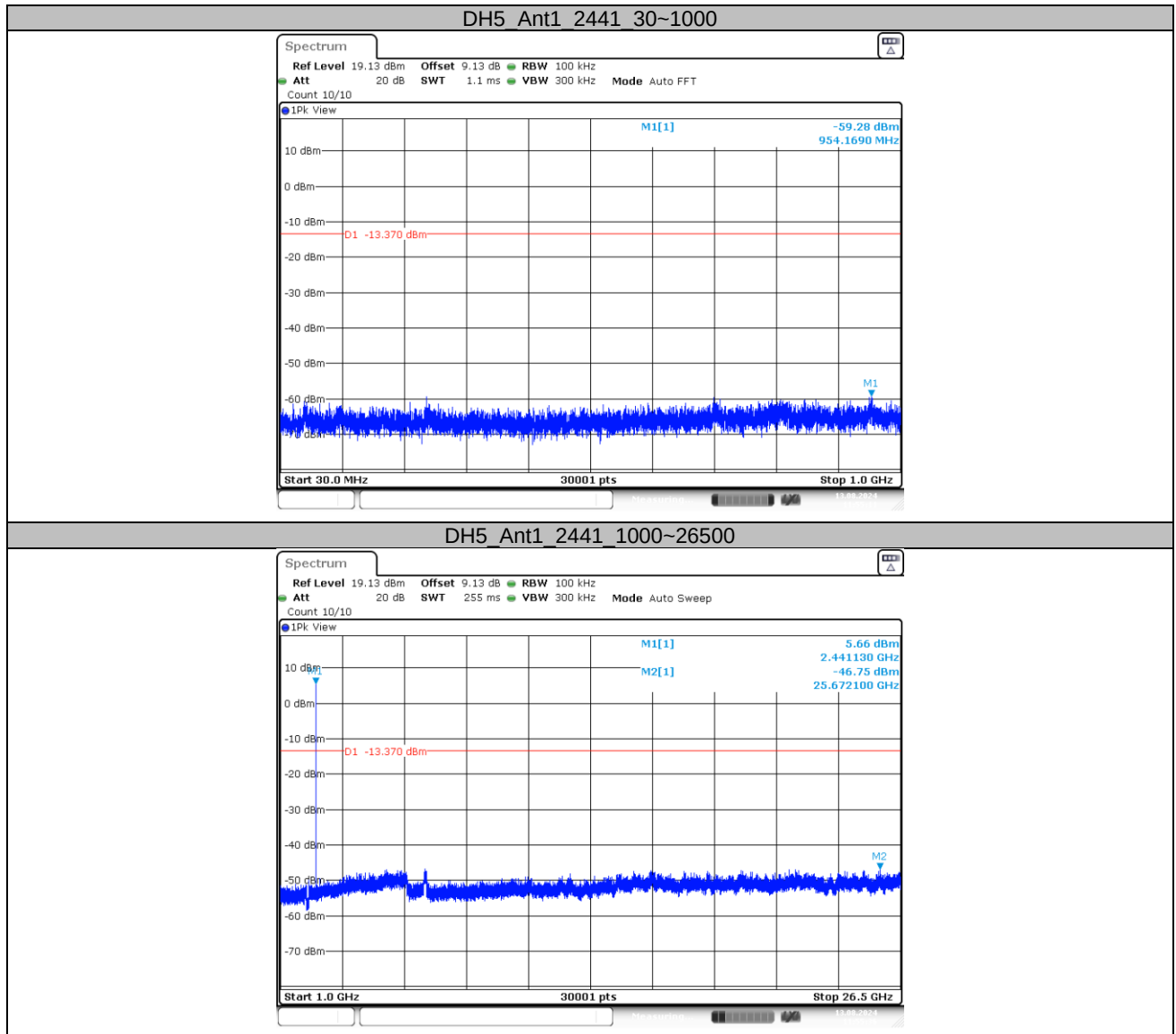
3DH5_Ant1_High_2480

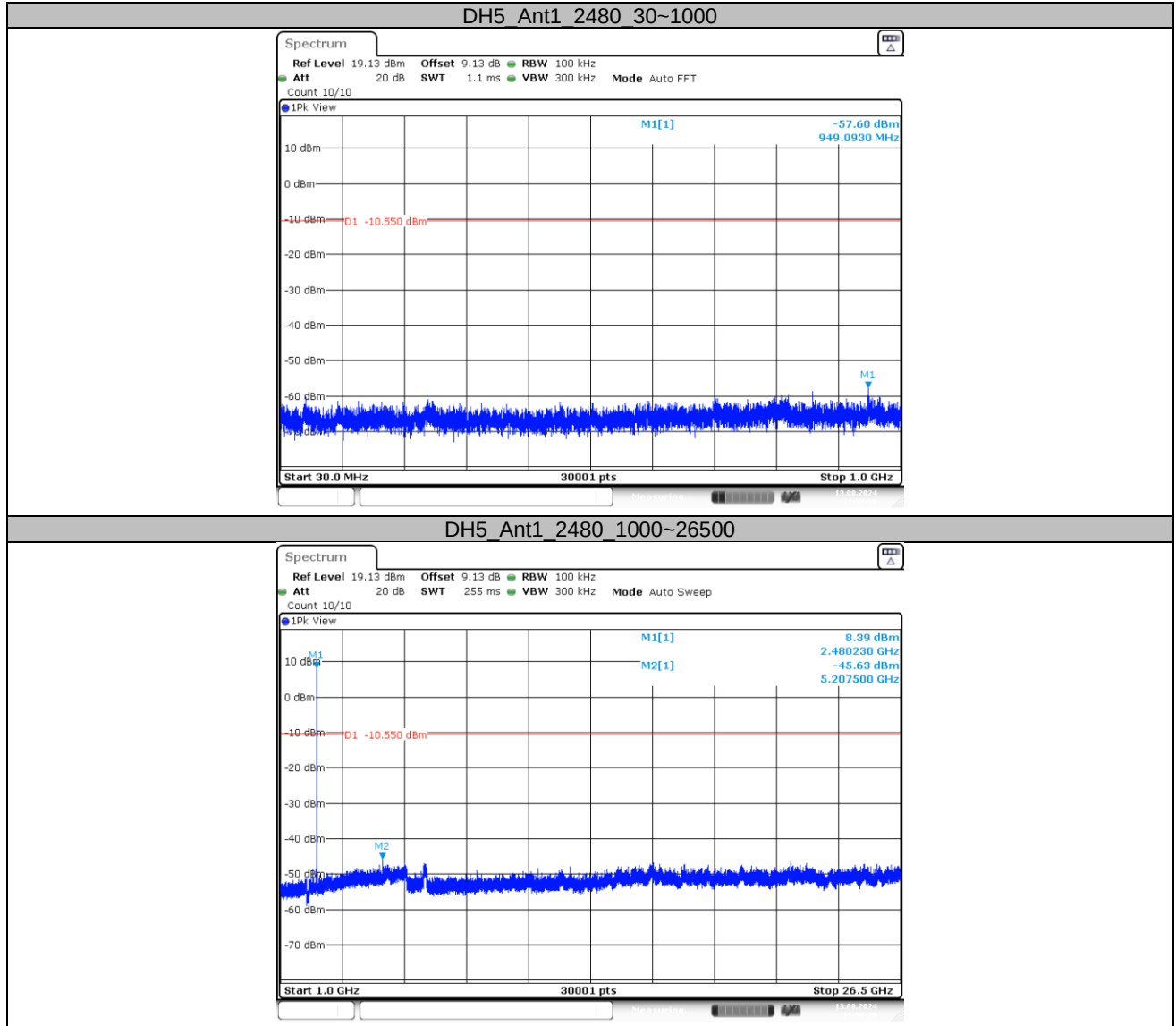


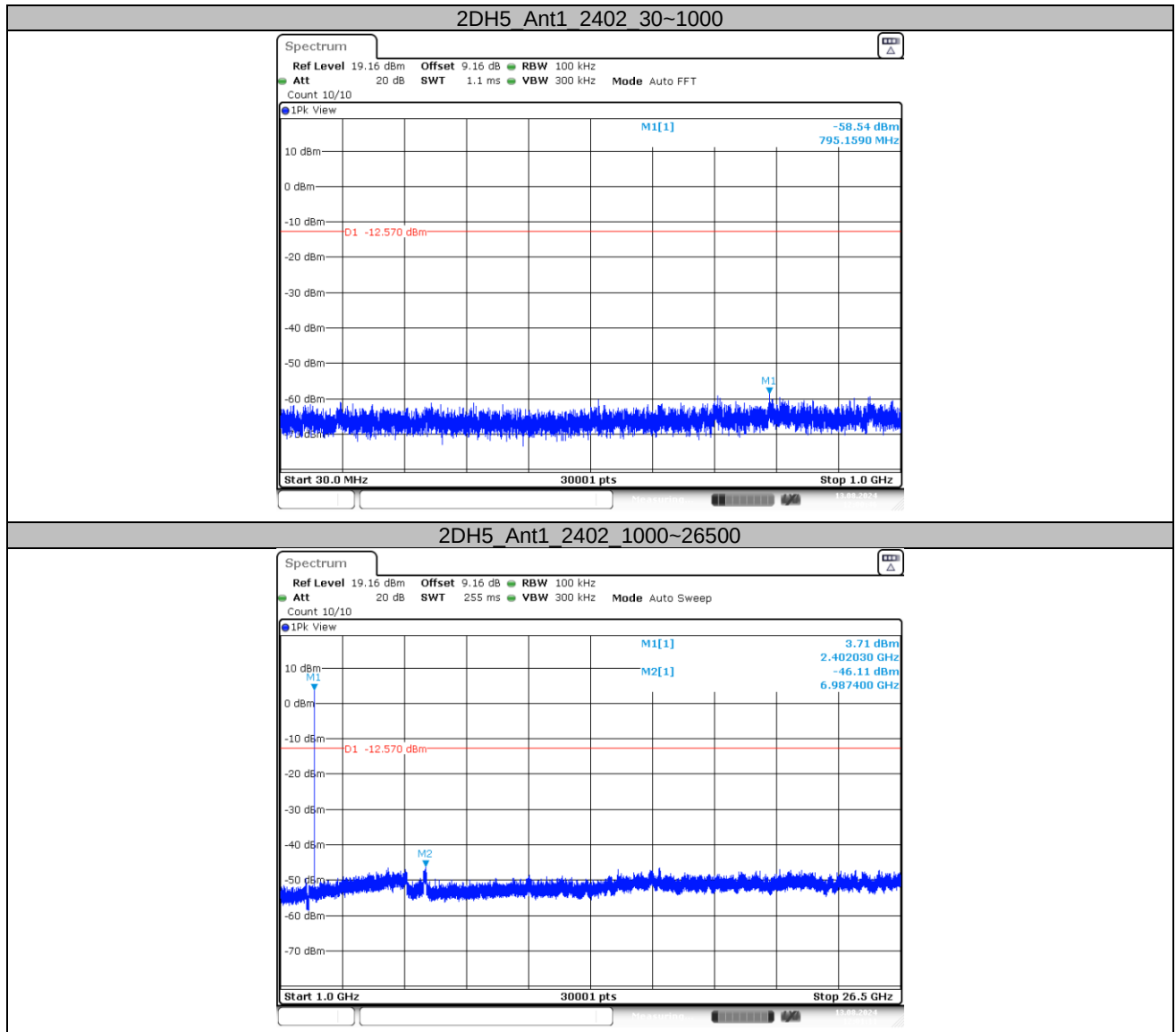


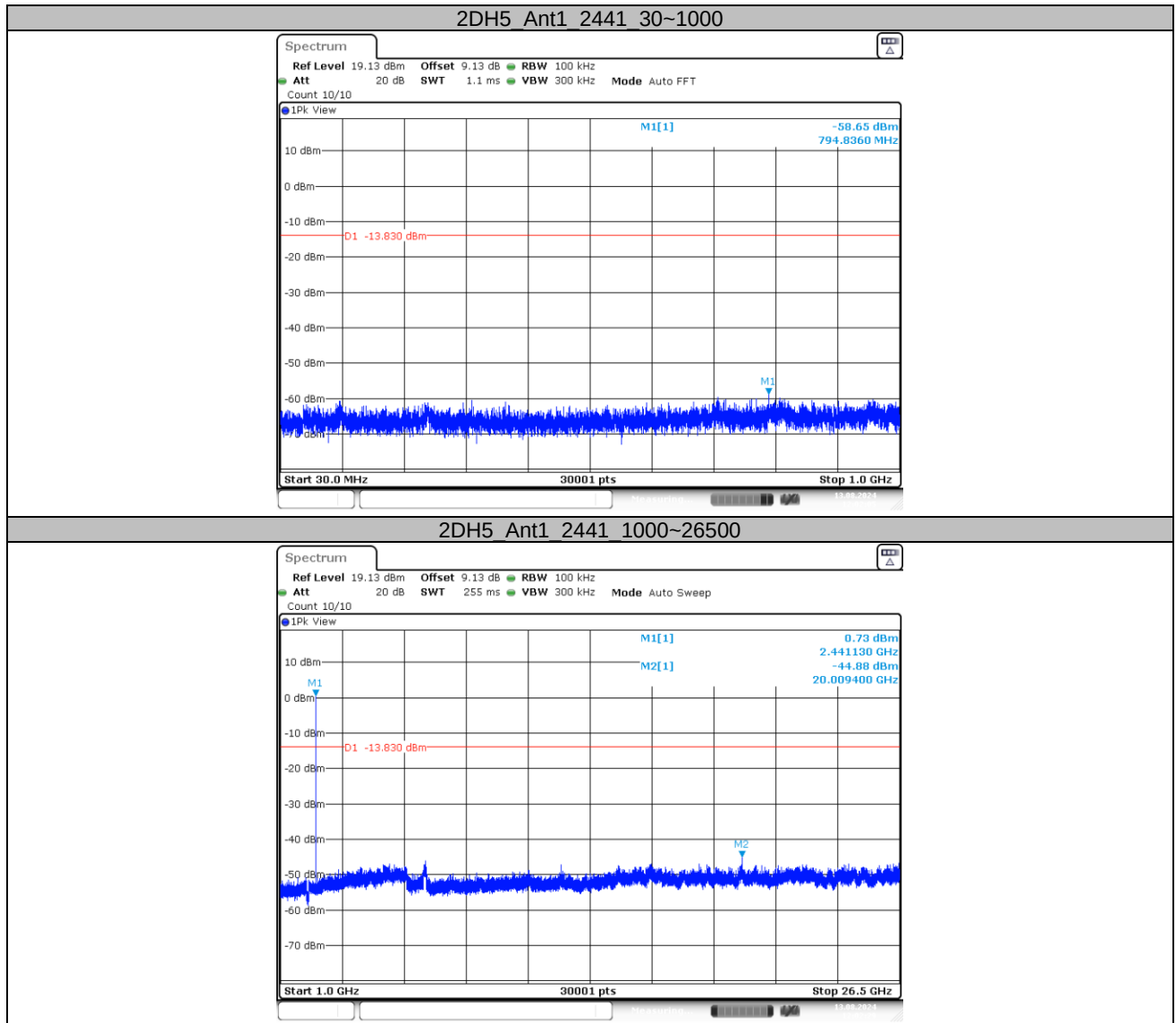
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	30~1000	9.37	-58.1	≤-10.63	PASS
			1000~26500	9.37	-44.19	≤-10.63	PASS
		2441	30~1000	6.63	-59.28	≤-13.37	PASS
			1000~26500	6.63	-46.75	≤-13.37	PASS
		2480	30~1000	9.45	-57.6	≤-10.55	PASS
			1000~26500	9.45	-45.63	≤-10.55	PASS
2DH5	Ant1	2402	30~1000	7.43	-58.54	≤-12.57	PASS
			1000~26500	7.43	-46.11	≤-12.57	PASS
		2441	30~1000	6.17	-58.65	≤-13.83	PASS
			1000~26500	6.17	-44.88	≤-13.83	PASS
		2480	30~1000	8.93	-58.86	≤-11.07	PASS
			1000~26500	8.93	-46.13	≤-11.07	PASS
3DH5	Ant1	2402	30~1000	7.23	-57.66	≤-12.77	PASS
			1000~26500	7.23	-39.92	≤-12.77	PASS
		2441	30~1000	5.57	-59.28	≤-14.43	PASS
			1000~26500	5.57	-39.55	≤-14.43	PASS
		2480	30~1000	8.41	-58.03	≤-11.59	PASS
			1000~26500	8.41	-46.51	≤-11.59	PASS

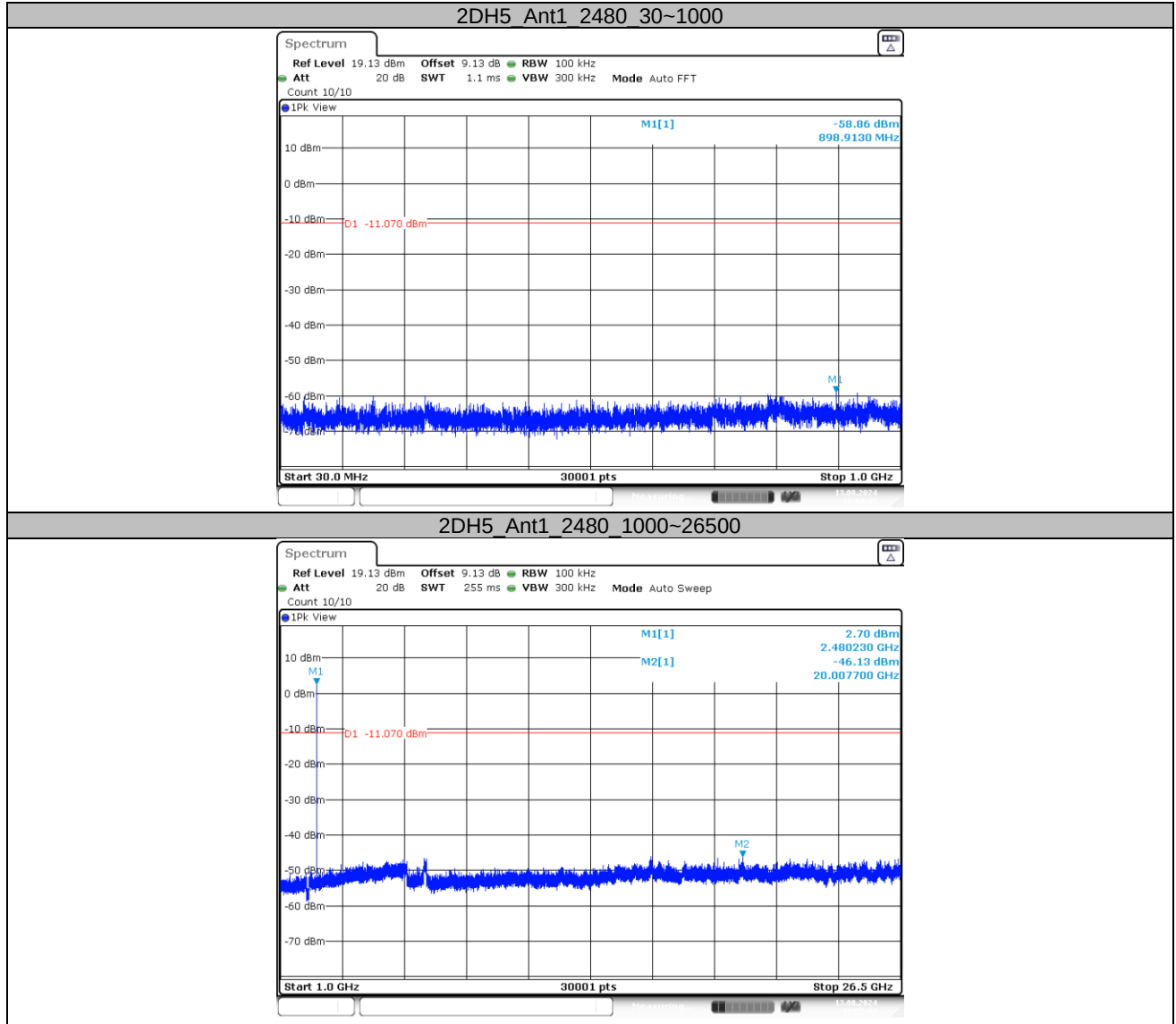


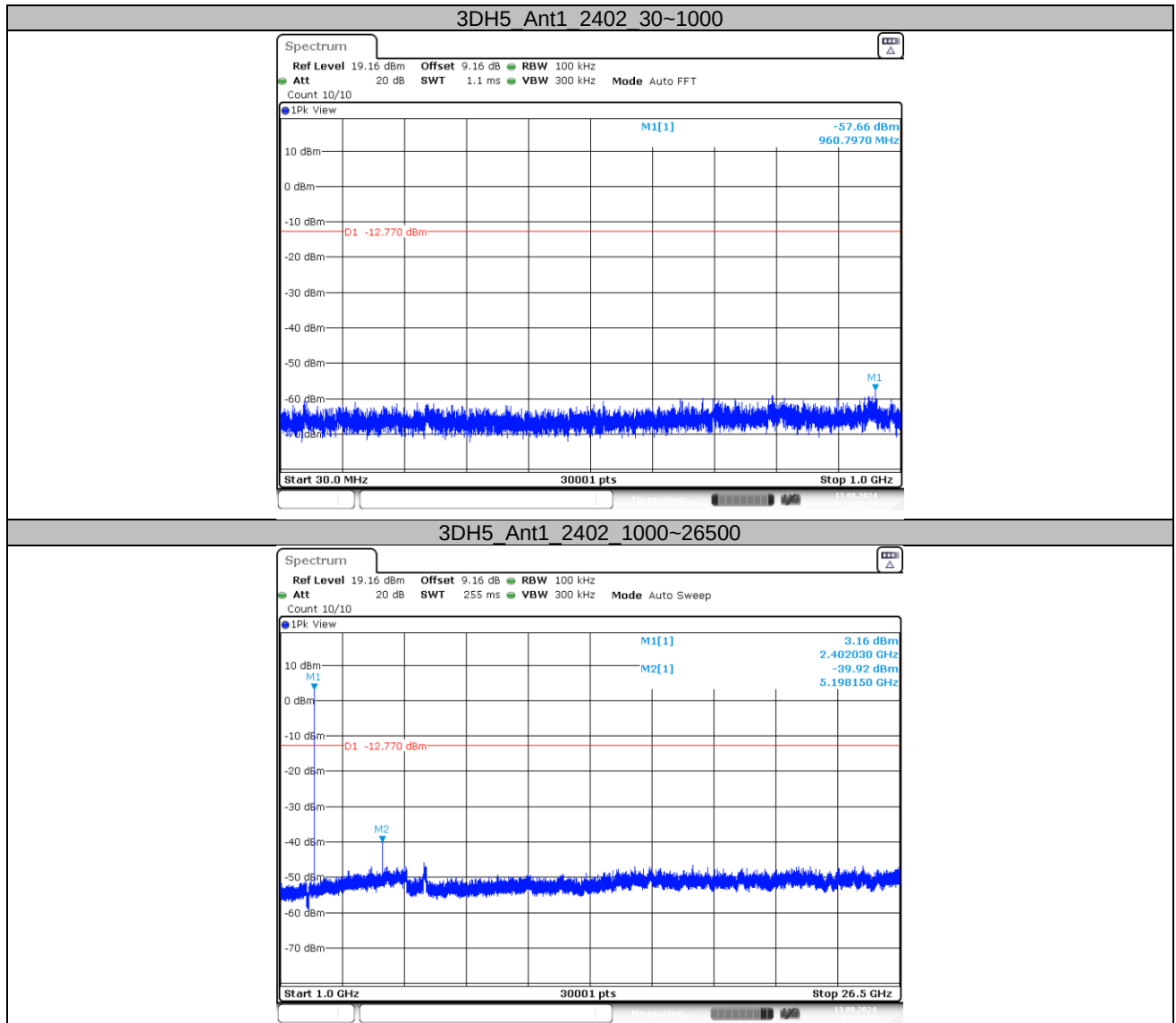


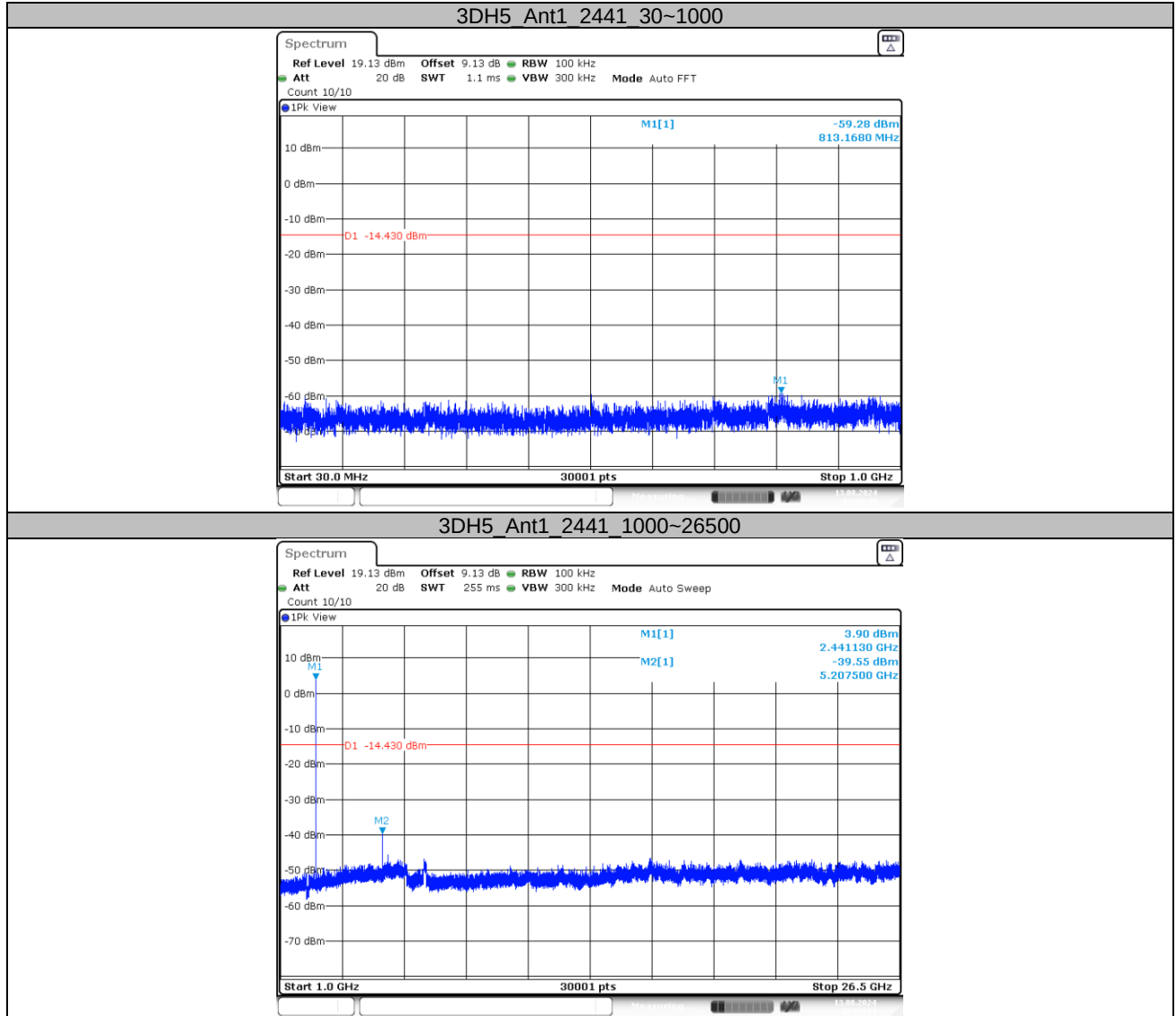


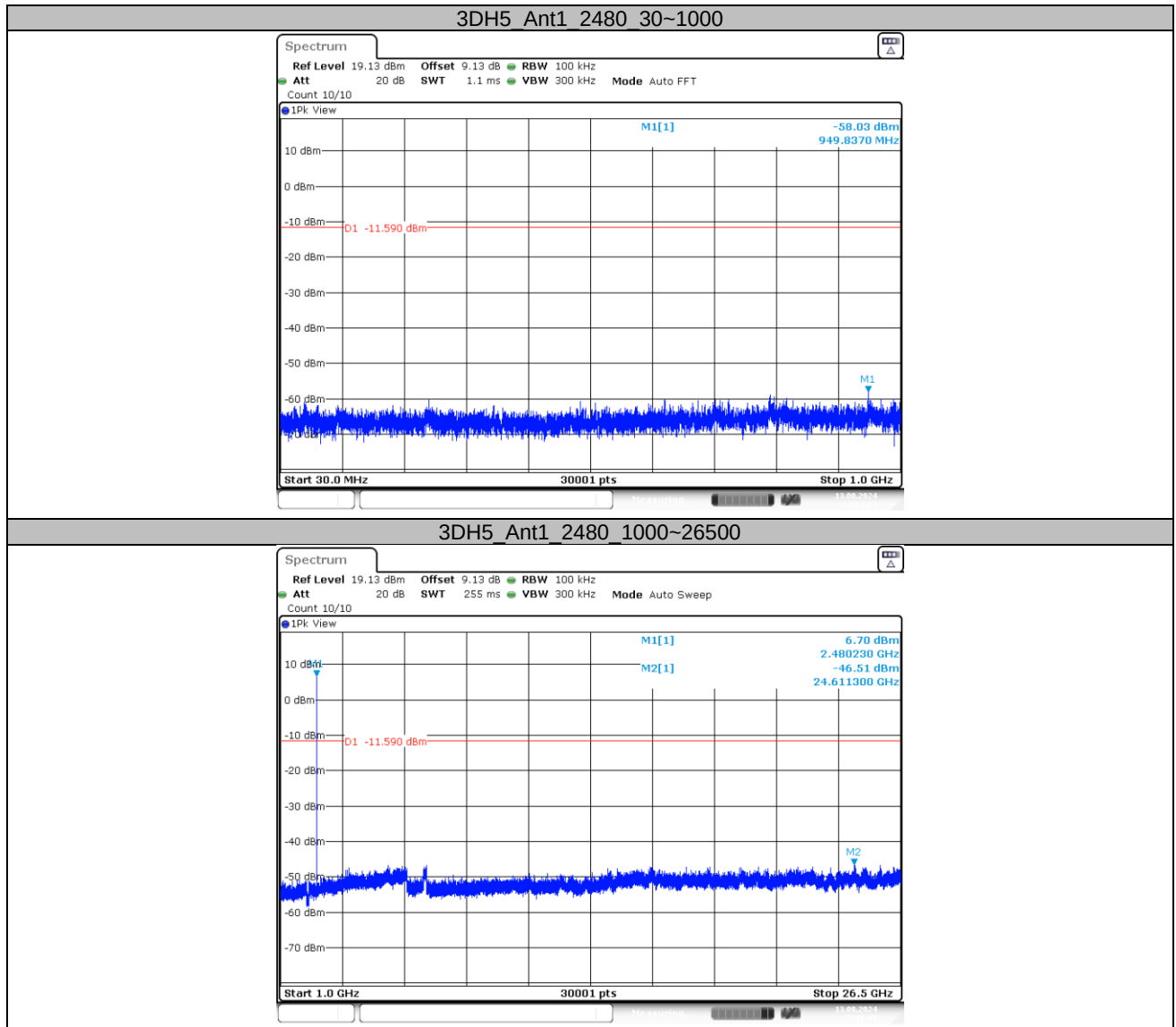






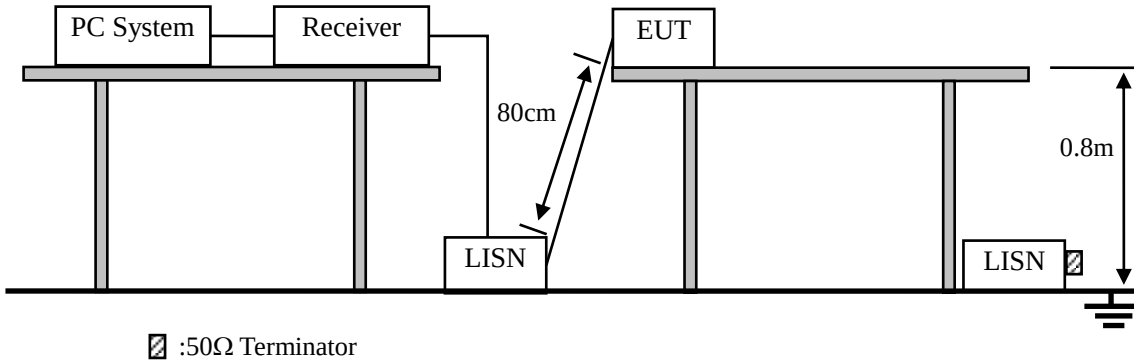






10. POWER LINE CONDUCTED EMISSIONS

10.1. Block Diagram of Test Setup



10.2. Limit

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. * Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

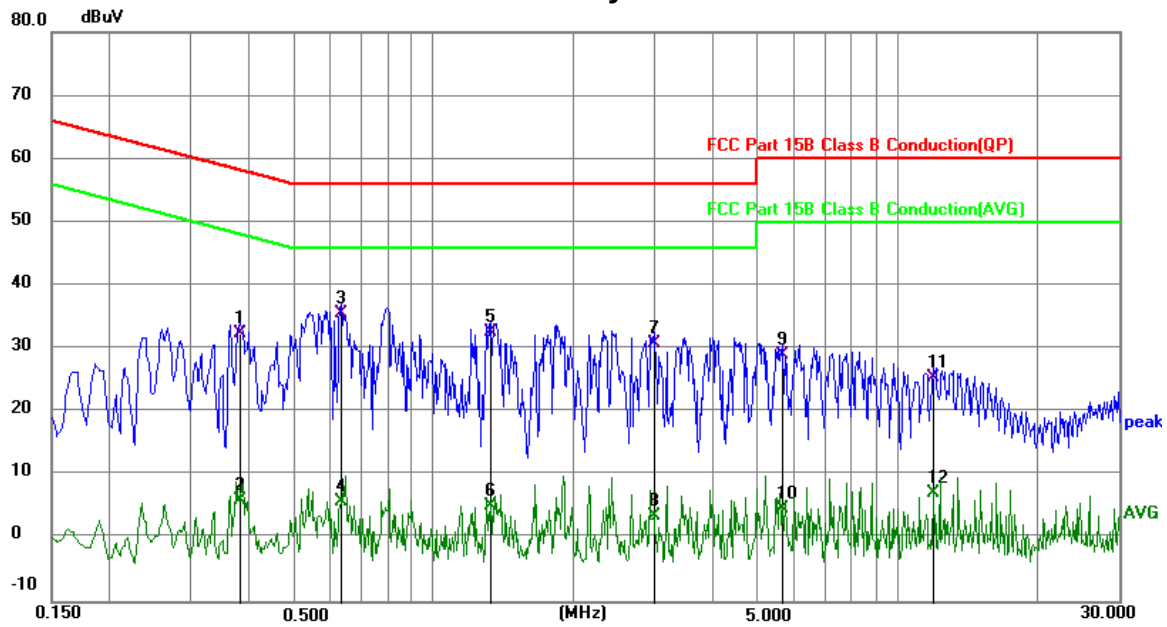
10.3. Test Procedure

- (1) The EUT was placed on a non-metallic table, 80cm above the ground plane.
- (2) Setup the EUT and simulator as shown in 10.1
- (3) The EUT Power connected to the power mains through a power adapter and a line impedance stabilization network (L.I.S.N1). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N2), this provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10:2013 on conducted Emission test.
- (4) The bandwidth of test receiver is set at 10KHz.
- (5) The frequency range from 150 KHz to 30MHz is checked.

10.4.Test Result

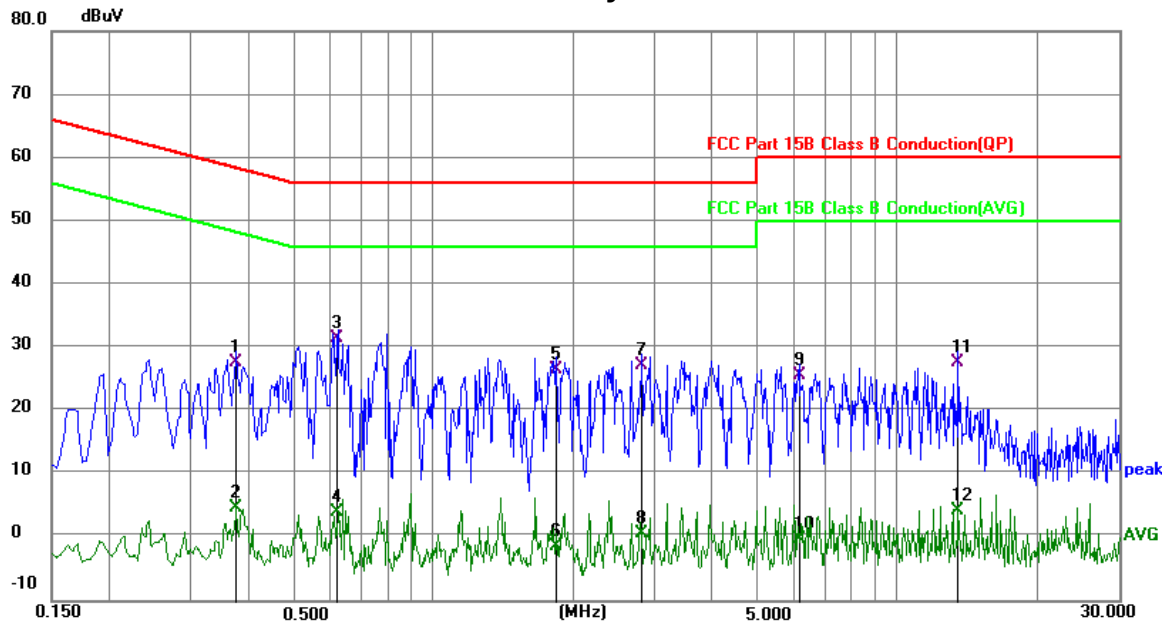
Pass

Polarity: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.3820	22.43	10.03	32.46	58.24	-25.78	QP	P	
2	0.3820	-3.90	10.03	6.13	48.24	-42.11	AVG	P	
3 *	0.6300	25.26	10.31	35.57	56.00	-20.43	QP	P	
4	0.6300	-4.39	10.31	5.92	46.00	-40.08	AVG	P	
5	1.3260	22.84	9.77	32.61	56.00	-23.39	QP	P	
6	1.3260	-4.63	9.77	5.14	46.00	-40.86	AVG	P	
7	2.9820	20.86	9.97	30.83	56.00	-25.17	QP	P	
8	2.9820	-6.40	9.97	3.57	46.00	-42.43	AVG	P	
9	5.6579	18.75	10.22	28.97	60.00	-31.03	QP	P	
10	5.6579	-5.50	10.22	4.72	50.00	-45.28	AVG	P	
11	11.9459	15.11	10.30	25.41	60.00	-34.59	QP	P	
12	11.9459	-3.12	10.30	7.18	50.00	-42.82	AVG	P	

Polarity: N



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.3738	17.69	10.00	27.69	58.42	-30.73	QP	P	
2	0.3738	-5.18	10.00	4.82	48.42	-43.60	AVG	P	
3 *	0.6219	21.15	10.28	31.43	56.00	-24.57	QP	P	
4	0.6219	-6.29	10.28	3.99	46.00	-42.01	AVG	P	
5	1.8340	16.79	9.78	26.57	56.00	-29.43	QP	P	
6	1.8340	-11.20	9.78	-1.42	46.00	-47.42	AVG	P	
7	2.8140	17.45	9.88	27.33	56.00	-28.67	QP	P	
8	2.8140	-9.08	9.88	0.80	46.00	-45.20	AVG	P	
9	6.1260	15.51	10.17	25.68	60.00	-34.32	QP	P	
10	6.1260	-10.43	10.17	-0.26	50.00	-50.26	AVG	P	
11	13.5380	17.41	10.26	27.67	60.00	-32.33	QP	P	
12	13.5380	-6.00	10.26	4.26	50.00	-45.74	AVG	P	

11. ANTENNA REQUIREMENTS

11.1.Limit

For intentional device, according to FCC 47 CFR Section 15.203 and and RSS-GENan intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

11.2.Result

The EUT antenna is PIFA Antenna. It comply with the standard requirement.

12. TEST SETUP PHOTO

Reference to the appendix I Test Setup Photo for details.

13. PHOTOS OF EUT

Reference to the appendix II external photos and appendix III internal photos for details.

-----END OF REPORT-----