

<b>Prüfbericht-Nr.:</b> <i>Test report no.:</i>	<b>CN25R368 001</b>	<b>Auftrags-Nr.:</b> <i>Order no.:</i>	326071880	Seite 1 von 76 <i>Page 1 of 76</i>
<b>Kunden-Referenz-Nr.:</b> <i>Client reference no.:</i>	1288983	<b>Auftragsdatum:</b> <i>Order date:</i>	2025-01-07	
<b>Auftraggeber:</b> <i>Client:</i>	<b>IKEA of Sweden AB</b> Box 702, SE-343 81 Älmhult, Sweden			
<b>Prüfgegenstand:</b> <i>Test item:</i>	SOLSKYDD Bluetooth speaker 45			
<b>Bezeichnung / Typ-Nr.:</b> <i>Identification / Type no.:</i>	E2506			
<b>Auftrags-Inhalt:</b> <i>Order content:</i>	Test Report			
<b>Prüfgrundlage:</b> <i>Test specification:</i>	FCC CFR47 Part 15, Subpart C Section 15.247 RSS-Gen Issue 5, Amendment 2, February 2021 RSS-247 Issue 3, August 2023 ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024			
<b>Wareneingangsdatum:</b> <i>Date of sample receipt:</i>	2025-01-08	Refer to photo document.		
<b>Prüfmuster-Nr.:</b> <i>Test sample no.:</i>	A003905685-005~007			
<b>Prüfzeitraum:</b> <i>Testing period:</i>	2025-02-26 ~ 2025-04-17			
<b>Ort der Prüfung:</b> <i>Place of testing:</i>	TÜV Rheinland (Shanghai) Co., Ltd.			
<b>Prüflaboratorium:</b> <i>Testing laboratory:</i>	TÜV Rheinland (Shanghai) Co., Ltd.			
<b>Prüfergebnis*:</b> <i>Test result*:</i>	Pass			
<b>geprüft von:</b> <i>tested by:</i>	<input checked="" type="checkbox"/> <u>Hongfei Wu</u>	<b>genehmigt von:</b> <i>authorized by:</i>	<input checked="" type="checkbox"/> <u>Yanli Fan</u>	
<b>Datum:</b> <i>Date:</i>	2025-09-01 <small>Signed by: Hongfei Wu</small>	<b>Datum:</b> <i>Date:</i>	2025-09-01 <small>Signed by: Yanli Fan</small>	
<b>Stellung / Position:</b>	Sachverständige(r)/Expert	<b>Stellung / Position:</b>	Sachverständige(r)/Expert	
<b>Sonstiges / Other:</b>	FCC ID: FHO-E2506 IC: 10912A-E2506 HVIN: E2506 PMN: SOLSKYDD Bluetooth speaker 45			
<b>Zustand des Prüfgegenstandes bei Anlieferung:</b> <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>			
* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n)	F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
* Legend:	P(ass) = passed a.m. test specification(s)	F(ail) = failed a.m. test specification(s)	N/A = not applicable	N/T = not tested
<b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b> <i>This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

Prüfbericht-Nr.: CN25R368 001  
Test report no.:

Seite 2 von 76  
Page 2 of 76

**Anmerkungen**  
*Remarks*

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4	<p>Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2023, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezueglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019.</p> <p><i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2023, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i></p>

## TEST SUMMARY

**5.1.1 ANTENNA REQUIREMENT***RESULT: Pass***5.1.2 20dB & 99% BANDWIDTH***RESULT: Pass***5.1.3 PEAK OUTPUT POWER***RESULT: Pass***5.1.4 FREQUENCY SEPARATION***RESULT: Pass***5.1.5 NUMBER OF HOPPING FREQUENCY***RESULT: Pass***5.1.6 TIME OF OCCUPANCY***RESULT: Pass***5.1.7 CONDUCTED BAND EDGE AND OUT-OF BAND EMISSIONS***RESULT: Pass***5.2.1 CONDUCTED EMISSION***RESULT: Pass***5.3.1 RADIATED BAND-EDGE***RESULT: Pass***5.3.2 RADIATED SPURIOUS EMISSION***RESULT: Pass*

## Contents

<b>1.</b>	<b>GENERAL REMARKS</b> .....	<b>5</b>
<b>1.1</b>	<b>COMPLEMENTARY MATERIALS</b> .....	<b>5</b>
<b>2.</b>	<b>TEST SITES</b> .....	<b>6</b>
<b>2.1</b>	<b>TEST FACILITIES</b> .....	<b>6</b>
<b>2.2</b>	<b>LIST OF TEST AND MEASUREMENT INSTRUMENTS</b> .....	<b>7</b>
<b>2.3</b>	<b>TRACEABILITY</b> .....	<b>7</b>
<b>2.4</b>	<b>CALIBRATION</b> .....	<b>8</b>
<b>2.5</b>	<b>MEASUREMENT UNCERTAINTY</b> .....	<b>8</b>
<b>3.</b>	<b>GENERAL PRODUCT INFORMATION</b> .....	<b>9</b>
<b>3.1</b>	<b>PRODUCT FUNCTION AND INTENDED USE</b> .....	<b>9</b>
<b>3.2</b>	<b>RATINGS AND SYSTEM DETAILS</b> .....	<b>9</b>
<b>3.3</b>	<b>INDEPENDENT OPERATION MODES</b> .....	<b>10</b>
<b>3.4</b>	<b>NOISE GENERATING AND NOISE SUPPRESSING PARTS</b> .....	<b>10</b>
<b>4.</b>	<b>TEST SET-UP AND OPERATION MODES</b> .....	<b>11</b>
<b>4.1</b>	<b>PRINCIPLE OF CONFIGURATION SELECTION</b> .....	<b>11</b>
<b>4.2</b>	<b>TEST OPERATION AND TEST SOFTWARE</b> .....	<b>11</b>
<b>4.3</b>	<b>SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT</b> .....	<b>11</b>
<b>4.4</b>	<b>COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE</b> .....	<b>12</b>
<b>5.</b>	<b>TEST RESULTS</b> .....	<b>13</b>
<b>5.1</b>	<b>CONDUCTED TESTING AT ANTENNA PORT</b> .....	<b>13</b>
5.1.1	<i>Antenna Requirement</i> .....	13
5.1.2	<i>20dB &amp; 99% Bandwidth</i> .....	15
5.1.3	<i>Peak Output Power</i> .....	27
5.1.4	<i>Frequency Separation</i> .....	28
5.1.5	<i>Number of Hopping Frequency</i> .....	38
5.1.6	<i>Time of Occupancy</i> .....	42
5.1.7	<i>Conducted Band Edge and out-of Band Emissions</i> .....	47
<b>5.2</b>	<b>EMISSION IN THE FREQUENCY RANGE UP TO 30MHZ</b> .....	<b>54</b>
5.2.1	<i>Conducted Emission</i> .....	54
<b>5.3</b>	<b>EMISSION IN THE FREQUENCY RANGE ABOVE 30MHZ</b> .....	<b>57</b>
5.3.1	<i>Radiated Band-Edge</i> .....	57
5.3.2	<i>Radiated Spurious Emission</i> .....	63
<b>6.</b>	<b>LIST OF TABLES</b> .....	<b>76</b>
<b>7.</b>	<b>LIST OF FIGURES</b> .....	<b>76</b>

# 1. General Remarks

## 1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Photographs of the Test Set-up

## 2. Test Sites

### 2.1 Test Facilities

TÜV Rheinland (Shanghai) Co., Ltd.

Workshop14, North Half of Workshop 10 and Workshop 16, Pingqian (Taicang) Modern Industrial Park, No.525, Yuewang Lingang South Road, Shaxi, Taicang, Jiangsu, China

The used test equipment is in accordance with CISPR 16 for measurement of radio interference.

The Federal Communications Commission has reviewed the technical characteristics of the radiated and conducted emission facility, and has found these test facilities to be in compliance with the requirements of section 2.948 of the FCC rules. The description of the test facility is listed under FCC registration number 930979.

The Innovation, Science and Economic Development Canada has reviewed the technical characteristics of the radiated and conducted emission facility, and has found these test facilities to be in compliance. The description of the test facility is listed under chambers filing number 33038.

## 2.2 List of Test and Measurement Instruments

**Table 1: List of Test and Measurement Equipment**

<b>Equip.</b>	<b>Description</b>	<b>Model</b>	<b>Manufacturer</b>	<b>Due Date</b> DD.MM.YYYY
EMC-C-196	Wireless connectivity tester	CMW270	Rohde & Schwarz	23.08.2025
EMC-C-302	Signal generator	SMB100B (6 GHz)	Rohde & Schwarz	10.12.2025
EMC-C-303	Vector Signal generator	SMW200A	Rohde & Schwarz	10.12.2025
EMC-C-304	OSP	OSP-B157W8	Rohde & Schwarz	10.12.2025
EMC-C-161	Spectrum analyser	FSV40	Rohde&Schwarz	15.07.2025
EMC-C-018	Double ridged horn antenna	BBHA 9120 D	Schwarzbeck	24.03.2026
EMC-C-066	EMI test receiver	ESCI	Rohde&Schwarz	27.10.2025
EMC-C-068	Broadband horn antenna	BBHA 9170	Schwarzbeck	18.06.2028
EMC-C-155	BiLog antenna	CBL 6112D	Teseq	24.03.2026
EMC-C-175	Preamplifier	EMC051845SE	EMCI Taiwan	24.07.2025
EMC-C-001	3 m semi-anechoic chamber	SAC3	Frankonia	03.12.2026
EMC-C-141	Shielded enclosure	10.055x3.605x3.000	Frankonia	08.11.2028
EMC-C-195	EMI test receiver	ESR3	Rohde&Schwarz	03.08.2025
EMC-C-190	Artificial mains network	ENV432	Rohde&Schwarz	11.10.2025
EMC-C-045	Dual display multimeter	F45	Fluke	28.06.2025
software				
EMC-S-036	RF measurement software	WMS32-WB (11.40.00)	Rohde&Schwarz	NA
EMC-S-032	EMI measurement software	EMC32-E+ (10.60.20)	Rohde&Schwarz	NA
EMC-S-028	EMI measurement software	EMC32-MEB (10.60.20)	Rohde&Schwarz	NA

## 2.3 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations.

## 2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

## 2.5 Measurement Uncertainty

**Table 2: Measurement Uncertainty**

Measurement Type	Frequency	Uncertainty
Antenna Port Conducted Emission	< 1GHz	±0.39dB
	> 1GHz	±0.68dB
Conducted Emission	150kHz - 30MHz	±2.33dB
Radiated Emission	9kHz - 30MHz	±2.93dB
	30MHz - 1GHz	±5.34dB
	> 1GHz	±5.40dB

### 3. General Product Information

#### 3.1 Product Function and Intended Use

The EUT (Equipment Under Test) is a speaker and which support Bluetooth and 2.4GHz proprietary function.

The aim of this report is to evaluate RF character of Bluetooth of the EUT.

#### 3.2 Ratings and System Details

**Table 3: Technical Specification of EUT**

General Description of EUT	
Product Name:	SOLSKYDD Bluetooth speaker 45
Model No.:	E2506
Operation Voltage:	AC 100~240V, 50-60Hz
Test Voltage:	DC 3.3V for RF conducted and radiated test AC 120V, 60Hz for conducted emission
RF Technical:	1) Bluetooth Classic 2) 2.4 GHz proprietary
Technical Specification of Bluetooth Classic	
Frequency Range:	2402~2480MHz
Modulation Type:	GFSK, $\pi/4$ DQPSK, 8DPSK
Antenna Type:	PCB Antenna
Antenna Gain:	1.5 dBi (declared by client)

**Table 4: RF Channel List**

RF Channel	Frequency [MHz]						
00	2402	20	2422	40	2442	60	2462
01	2403	21	2423	41	2443	61	2463
02	2404	22	2424	42	2444	62	2464
03	2405	23	2425	43	2445	63	2465
04	2406	24	2426	44	2446	64	2466
05	2407	25	2427	45	2447	65	2467
06	2408	26	2428	46	2448	66	2468
07	2409	27	2429	47	2449	67	2469
08	2410	28	2430	48	2450	68	2470
09	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	/	/

### 3.3 Independent Operation Modes

Test frequencies are lowest channel: 2402 MHz, middle channel: 2441 MHz, highest channel: 2480 MHz and hopping mode.

The basic operation modes are:

- A. Bluetooth Classic transmitting mode
- B. Radio operating mode

### 3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

## 4. Test Set-up and Operation Modes

### 4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum power level. The test modes were adapted accordingly in reference to the instructions for use.

### 4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024.

Test Software: Telink BDT, V5.7.4

**Table 5: Power parameter value**

Mode	Power Parameter Setting Value
BR	8.48
EDR	-0.01

### 4.3 Special Accessories and Auxiliary Equipment

**Table 6: Special Accessories**

Accessories	Parameter
RF Cable between the antenna port and test system	Cable loss: 0.5dB

Note: The RF cable used in the test was provided by

Client

Test Lab

And the cable loss has been factored in the related test.

**Table 7: Auxiliary Equipment**

Equipment	Manufacturer	Model Name
Laptop	Lenovo	21AJ-S57N0J

**Prüfbericht - Nr.: CN25R368 001**  
*Test Report No.*

**Seite 12 von 76**  
*Page 12 of 76*

#### **4.4 Countermeasures to achieve EMC Compliance**

Null.

## 5. Test Results

### 5.1 Conducted Testing at Antenna Port

#### 5.1.1 Antenna Requirement

**RESULT:**
**Pass**

According to the manufacturer declared, the EUT has one PCB antenna, the directional gain of antenna is 1.5 dBi and the antenna is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

**Table 8: Antenna Requirement**
**FCC 15.203 – Antenna Requirement 1**

**Requirement:** No antenna other than that furnished by the responsible party shall be used with the device

**Results:** Antenna type: PCB antenna

**Verdict:** Pass

**FCC 15.204 – Antenna Requirement 2**

**Requirement:** An intentional radiator may be operated only with the antenna with which it is authorized. If an antenna is marketed with the intentional radiator, it shall be of a type which is authorized with the intentional radiator.

**Results:** Only one PCB antenna can be used

**Verdict:** Pass

**RSS-Gen 6.4 – External Control**

**Requirement:** The device shall not have any external controls accessible to the user that enable it to be adjusted, selected or programmed to operate in violation of the regulatory requirements, including RSS-Gen and the applicable RSSs

**Results:** The device does not have any transmitter external controls accessible to the user that can be adjusted and operated in violation of the limits of this standard.

**Verdict:** PASS

**Prüfbericht - Nr.: CN25R368 001**  
Test Report No.**Seite 14 von 76**  
Page 14 of 76**RSS-Gen 6.8 – Antenna Requirement**

Requirement: When measurements at the antenna port are used to determine the RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer.

Results:

a) Antenna Type:	PCB Antenna
b) Manufacture:	N/A
c) Model No.:	N/A
d) Gain with reference to an isotropic radiator:	1.5 dBi

Verdict: PASS

**5.1.2 20dB & 99% Bandwidth****RESULT:****Pass**

Date of testing : 2025-04-16  
Ambient temperature : 20.2°C  
Relative humidity : 52.2%  
Atmospheric pressure : 101kPa  
Test requirement : FCC Part 15.247(a)(1)  
RSS-247 Issue 3, August 2023, Clause 5.1(a)  
RSS-Gen Issue 5, Amendment 2, February 2021,  
Clause 6.7  
Test procedure : ANSI C63.10-2020+Cor. 1-2023+C63.10a-  
2024+Errata to C63.10a-2024  
Test voltage : DC 3.3V  
Test modes applied : A

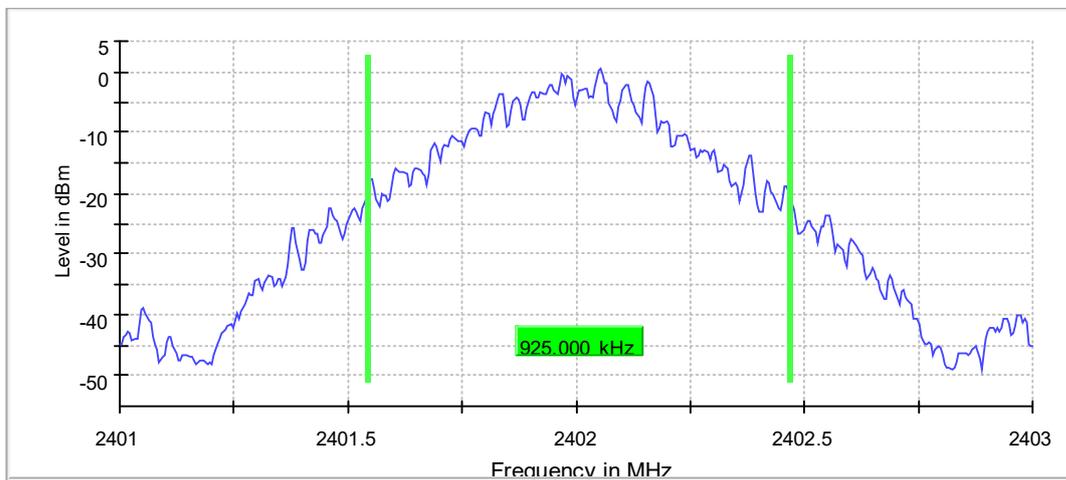
**Emission Bandwidth 20 dB (1-DH5, 2402 MHz)**

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	0.925000	---	---	2401.542500	2402.467500

(continuation of the "20 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2402.000000	0.6	PASS

20 dB Bandwidth


**Measurement**

Setting	Instrument Value	Target Value
Start Frequency	2.40100 GHz	2.40100 GHz
Stop Frequency	2.40300 GHz	2.40300 GHz
Span	2.000 MHz	2.000 MHz
RBW	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
Sweeptime	189.648 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	10 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.18 dB	0.50 dB

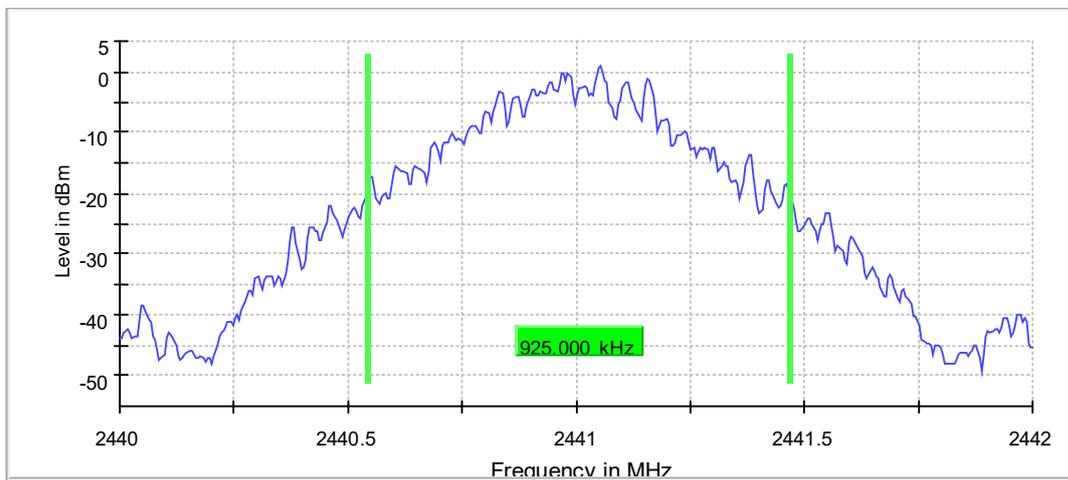
**Emission Bandwidth 20 dB (1-DH5, 2441 MHz)**

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2441.000000	0.925000	---	---	2440.542500	2441.467500

(continuation of the "20 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2441.000000	0.8	PASS

20 dB Bandwidth


**Measurement**

Setting	Instrument Value	Target Value
Start Frequency	2.44000 GHz	2.44000 GHz
Stop Frequency	2.44200 GHz	2.44200 GHz
Span	2.000 MHz	2.000 MHz
RBW	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
Sweeptime	189.648 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	8 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.15 dB	0.50 dB

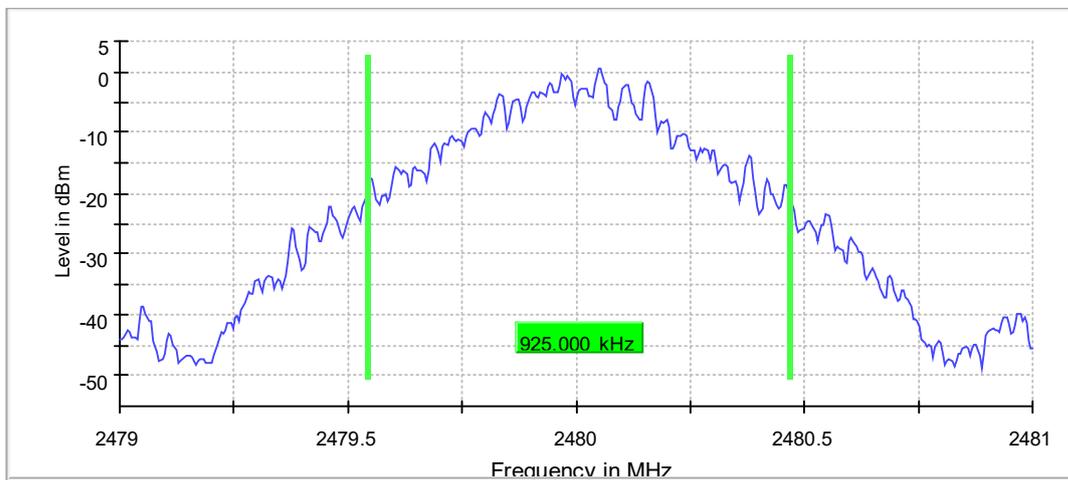
**Emission Bandwidth 20 dB (1-DH5, 2480 MHz)**

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	0.925000	---	---	2479.542500	2480.467500

(continuation of the "20 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2480.000000	0.7	PASS

20 dB Bandwidth


**Measurement**

Setting	Instrument Value	Target Value
Start Frequency	2.47900 GHz	2.47900 GHz
Stop Frequency	2.48100 GHz	2.48100 GHz
Span	2.000 MHz	2.000 MHz
RBW	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
Sweeptime	189.648 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	8 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.16 dB	0.50 dB

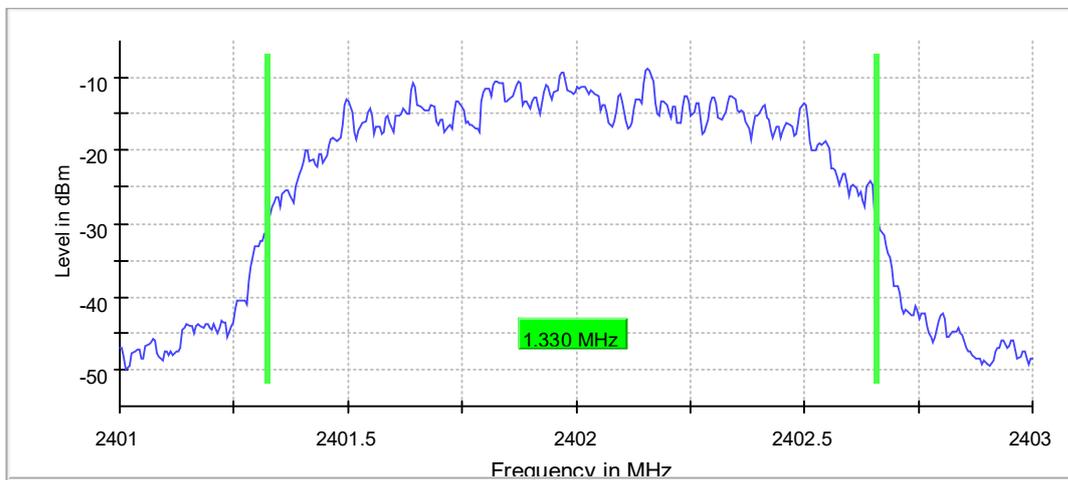
**Emission Bandwidth 20 dB (2-DH5, 2402 MHz)**

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	1.330000	---	---	2401.327500	2402.657500

(continuation of the "20 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2402.000000	-8.6	PASS

20 dB Bandwidth


**Measurement**

Setting	Instrument Value	Target Value
Start Frequency	2.40100 GHz	2.40100 GHz
Stop Frequency	2.40300 GHz	2.40300 GHz
Span	2.000 MHz	2.000 MHz
RBW	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
Sweeptime	189.648 µs	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	9 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.12 dB	0.50 dB

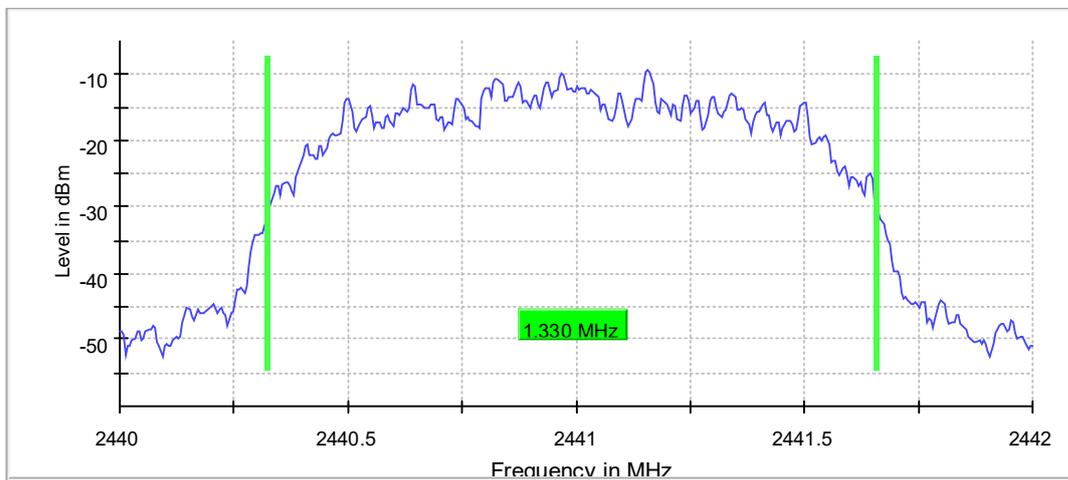
**Emission Bandwidth 20 dB (2-DH5, 2441 MHz)**

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2441.000000	1.330000	---	---	2440.327500	2441.657500

(continuation of the "20 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2441.000000	-9.4	PASS

20 dB Bandwidth


**Measurement**

Setting	Instrument Value	Target Value
Start Frequency	2.44000 GHz	2.44000 GHz
Stop Frequency	2.44200 GHz	2.44200 GHz
Span	2.000 MHz	2.000 MHz
RBW	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
Sweeptime	189.648 µs	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	12 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.10 dB	0.50 dB

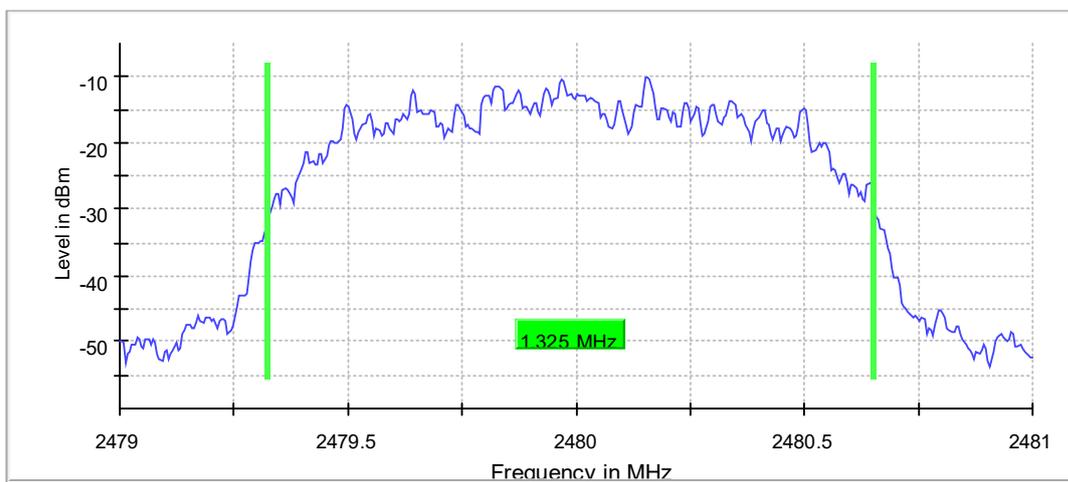
**Emission Bandwidth 20 dB (2-DH5, 2480 MHz)**

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	1.325000	---	---	2479.327500	2480.652500

(continuation of the "20 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2480.000000	-10.1	PASS

20 dB Bandwidth


**Measurement**

Setting	Instrument Value	Target Value
Start Frequency	2.47900 GHz	2.47900 GHz
Stop Frequency	2.48100 GHz	2.48100 GHz
Span	2.000 MHz	2.000 MHz
RBW	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
Sweptime	189.648 µs	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	8 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.19 dB	0.50 dB

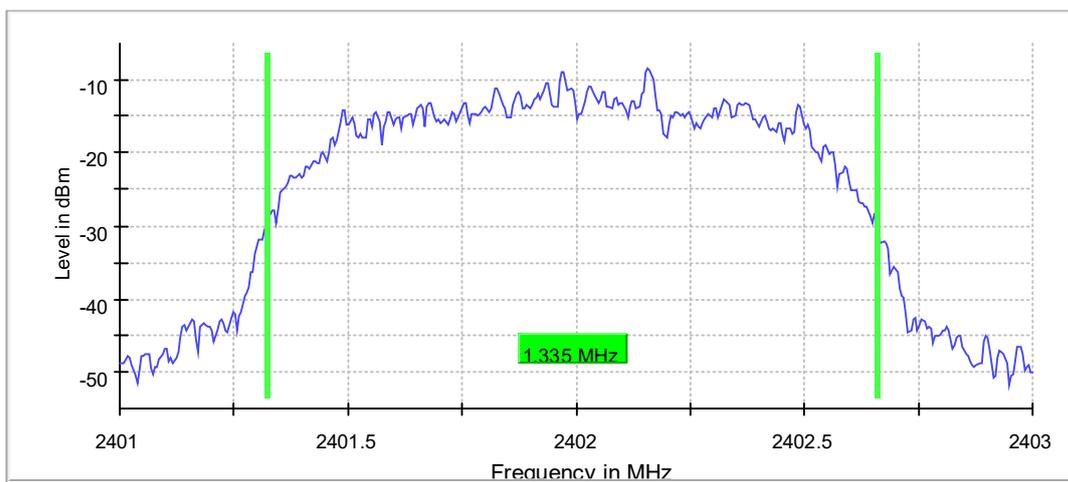
**Emission Bandwidth 20 dB (3-DH5, 2402 MHz)**

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	1.335000	---	---	2401.327500	2402.662500

(continuation of the "20 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2402.000000	-8.5	PASS

20 dB Bandwidth


**Measurement**

Setting	Instrument Value	Target Value
Start Frequency	2.40100 GHz	2.40100 GHz
Stop Frequency	2.40300 GHz	2.40300 GHz
Span	2.000 MHz	2.000 MHz
RBW	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
Sweeptime	189.648 µs	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	8 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.12 dB	0.50 dB

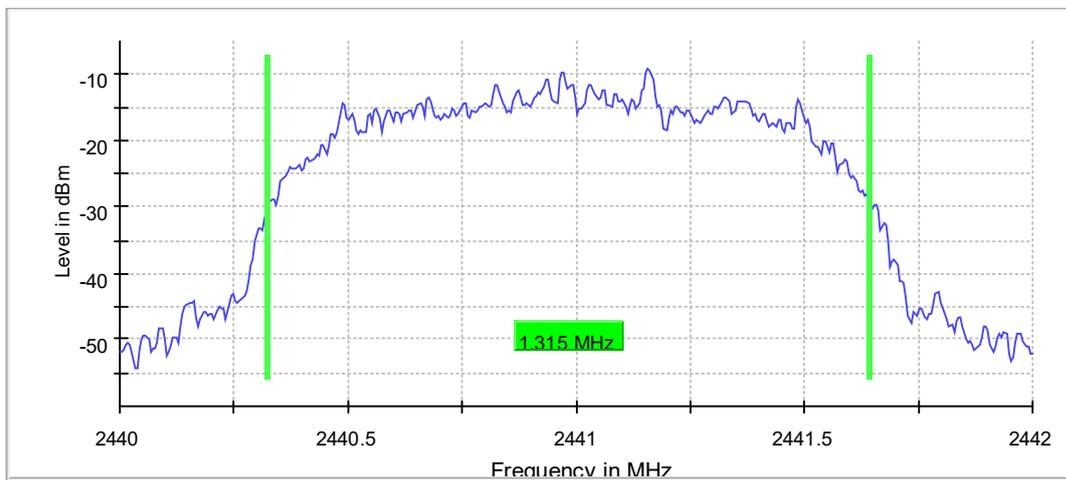
**Emission Bandwidth 20 dB (3-DH5, 2441 MHz)**

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2441.000000	1.315000	---	---	2440.327500	2441.642500

(continuation of the "20 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2441.000000	-9.2	PASS

20 dB Bandwidth


**Measurement**

Setting	Instrument Value	Target Value
Start Frequency	2.44000 GHz	2.44000 GHz
Stop Frequency	2.44200 GHz	2.44200 GHz
Span	2.000 MHz	2.000 MHz
RBW	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
Sweeptime	189.648 µs	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	9 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.09 dB	0.50 dB

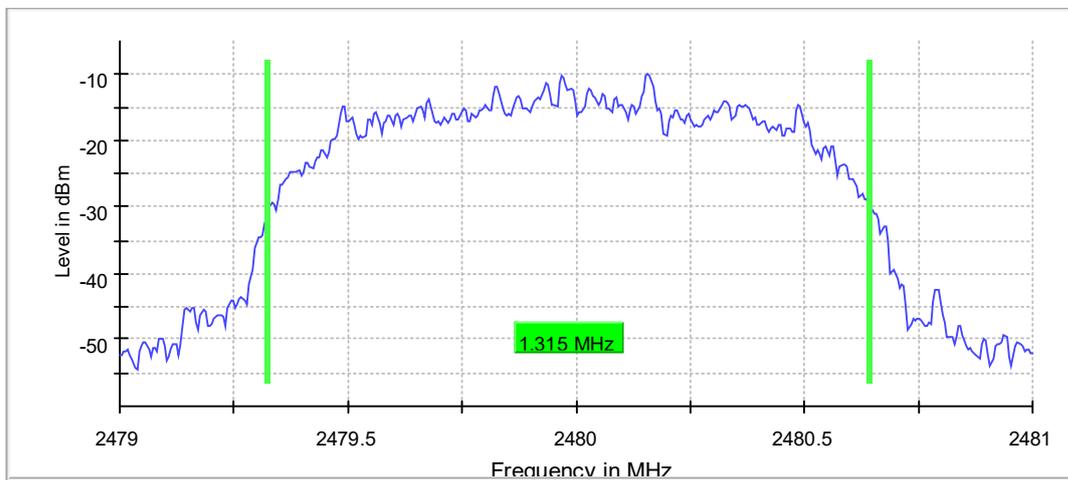
**Emission Bandwidth 20 dB (3-DH5, 2480 MHz)**

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	1.315000	---	---	2479.327500	2480.642500

(continuation of the "20 dB Bandwidth" table from column 6 ...)

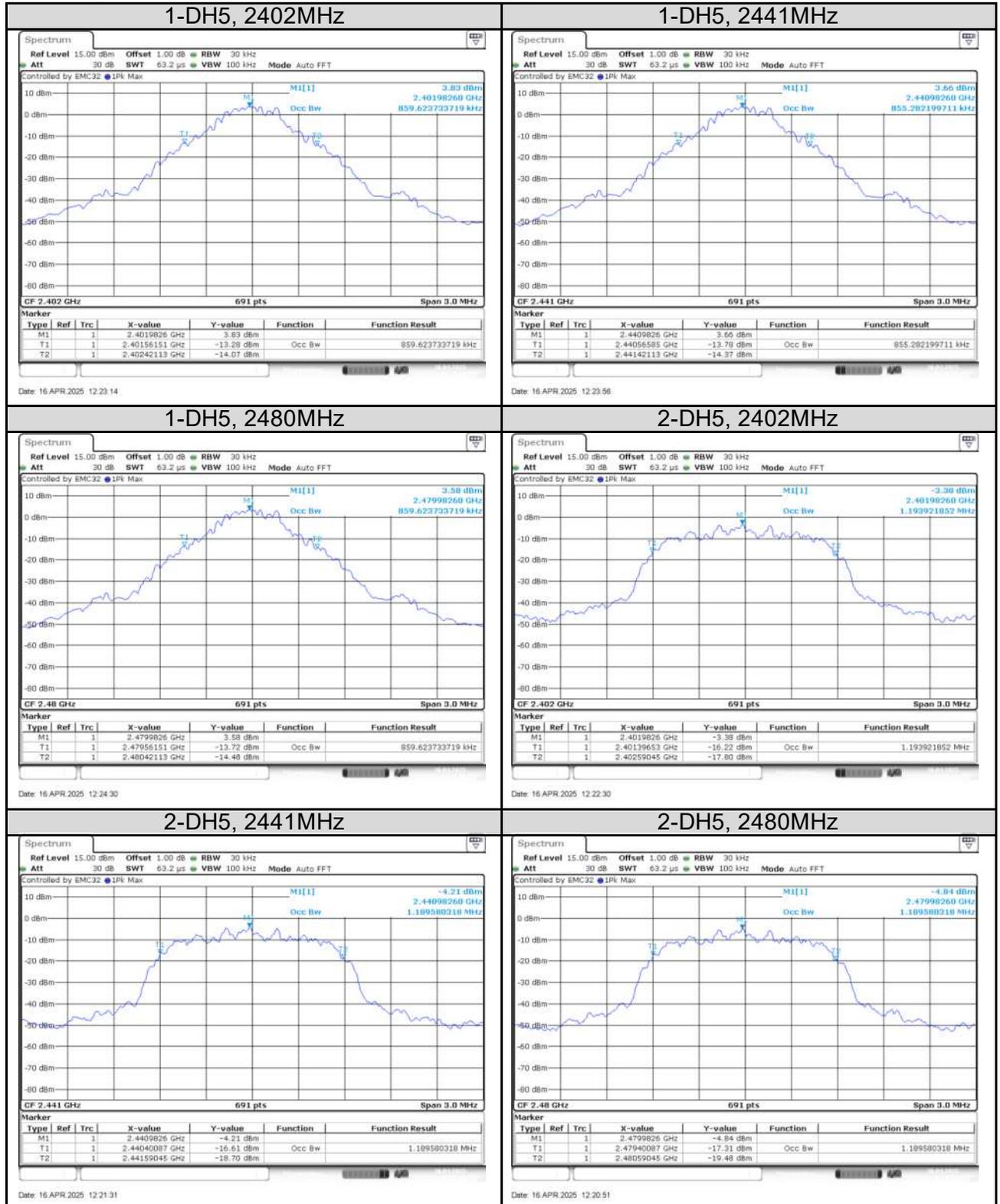
DUT Frequency (MHz)	Max Level (dBm)	Result
2480.000000	-10.0	PASS

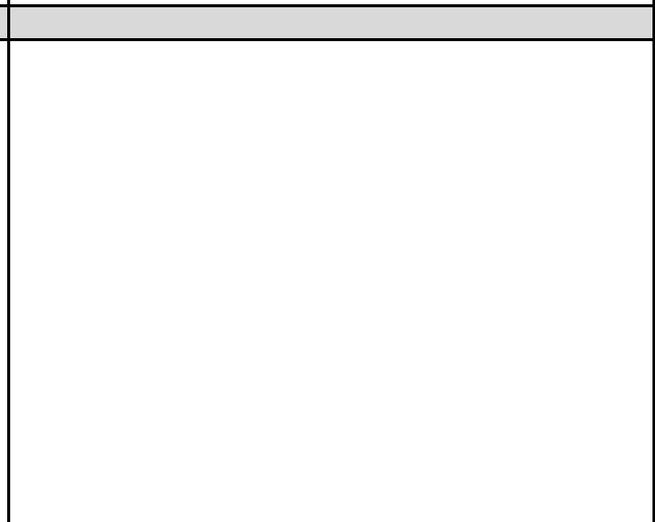
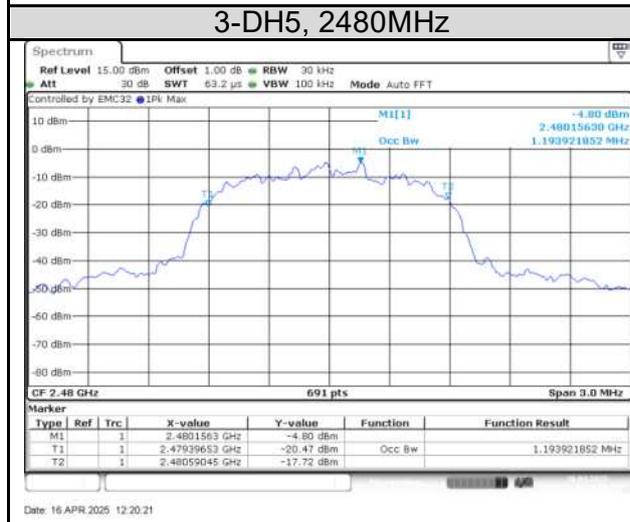
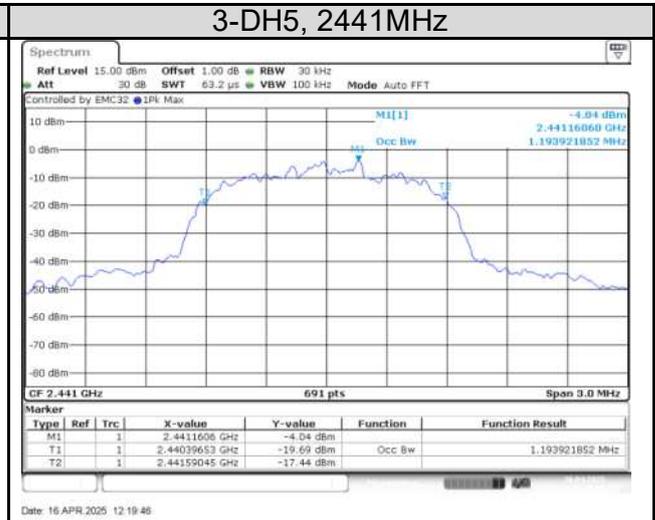
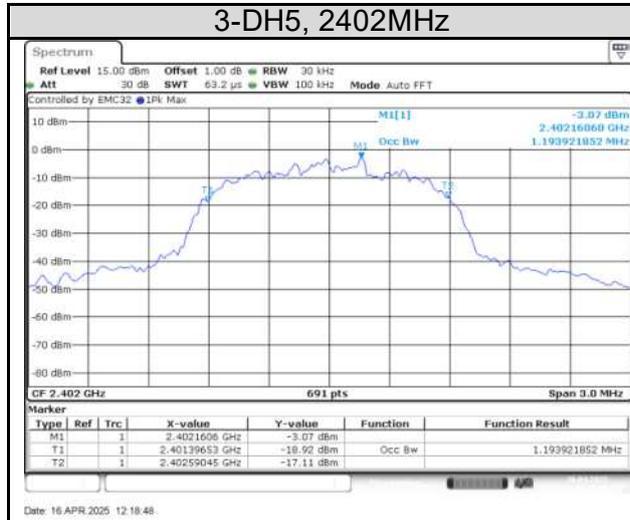
20 dB Bandwidth


**Measurement**

Setting	Instrument Value	Target Value
Start Frequency	2.47900 GHz	2.47900 GHz
Stop Frequency	2.48100 GHz	2.48100 GHz
Span	2.000 MHz	2.000 MHz
RBW	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
Sweeptime	189.648 µs	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	10 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.11 dB	0.50 dB

## Occupied Channel Bandwidth 99% (1-DH5, 2402 MHz)







## 5.1.4 Frequency Separation

**RESULT:****Pass**

Date of testing : 2025-04-16  
Ambient temperature : 20.2°C  
Relative humidity : 52.2%  
Atmospheric pressure : 101kPa  
Test requirement : FCC Part 15.247(a)(1)  
RSS-247 Issue 3, August 2023, Clause 5.1(b)  
Test procedure : ANSI C63.10-2020+Cor. 1-2023+C63.10a-  
2024+Errata to C63.10a-2024  
Test voltage : DC 3.3V  
Test modes applied : A

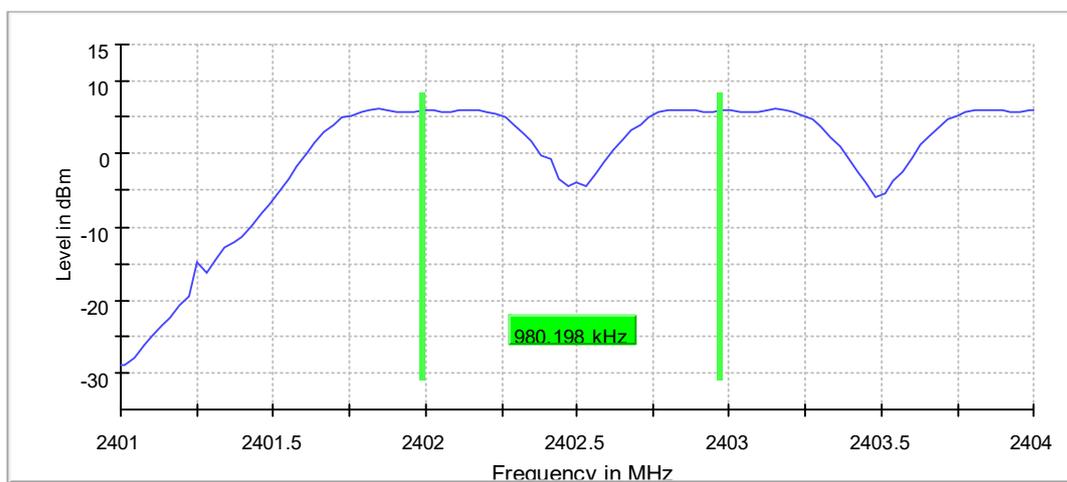
### Carrier Frequency Separation (1-DH5, 2402 MHz)

DUT Frequency (MHz)	Frequency Separation (MHz)	Limit Min (MHz)	Limit Max (MHz)	Center Frequency low Channel (MHz)	Center Frequency high Channel (MHz)
2402.000000	0.980198	0.616667	---	2401.995050	2402.975248

(continuation of the "Result" table from column 6 ...)

DUT Frequency (MHz)	Result
2402.000000	PASS

CFS



### Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40100 GHz	2.40100 GHz
Stop Frequency	2.40400 GHz	2.40400 GHz
Span	3.000 MHz	3.000 MHz
RBW	300.000 kHz	<= 300.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	101	~ 10
Sweeptime	1.000 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	18 / max. 150	max. 150
Stable	10 / 10	10
Max Stable Difference	0.05 dB	0.50 dB

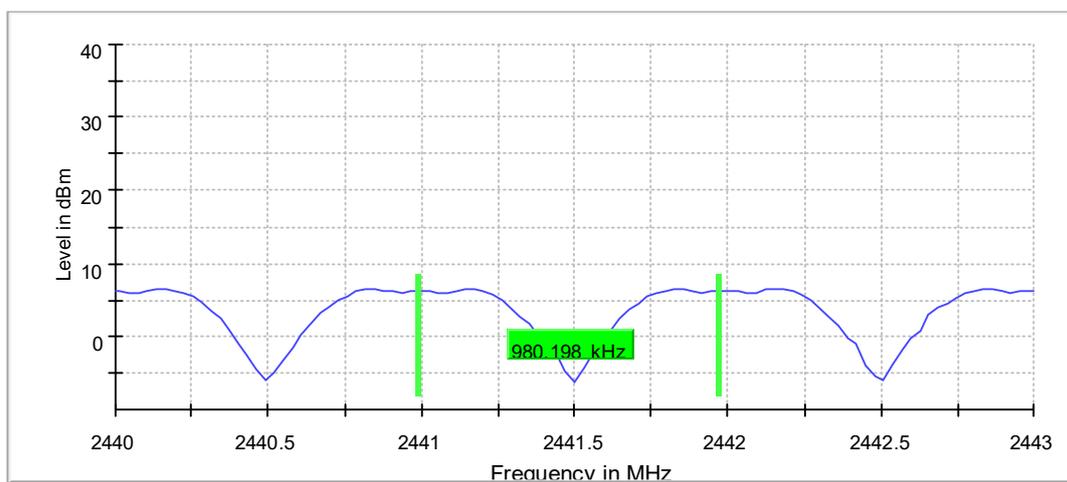
### Carrier Frequency Separation (1-DH5, 2441 MHz)

DUT Frequency (MHz)	Frequency Separation (MHz)	Limit Min (MHz)	Limit Max (MHz)	Center Frequency low Channel (MHz)	Center Frequency high Channel (MHz)
2441.000000	0.980198	0.616667	---	2440.995050	2441.975248

(continuation of the "Result" table from column 6 ...)

DUT Frequency (MHz)	Result
2441.000000	PASS

CFS



### Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.44000 GHz	2.44000 GHz
Stop Frequency	2.44300 GHz	2.44300 GHz
Span	3.000 MHz	3.000 MHz
RBW	300.000 kHz	<= 300.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	101	~ 10
Sweeptime	1.000 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	13 / max. 150	max. 150
Stable	10 / 10	10
Max Stable Difference	0.00 dB	0.50 dB

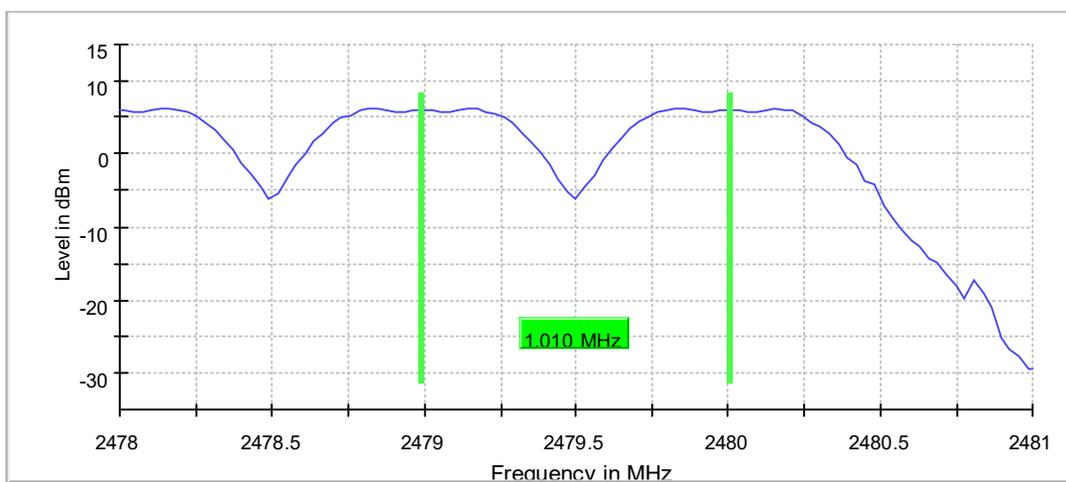
### Carrier Frequency Separation (1-DH5, 2480 MHz)

DUT Frequency (MHz)	Frequency Separation (MHz)	Limit Min (MHz)	Limit Max (MHz)	Center Frequency low Channel (MHz)	Center Frequency high Channel (MHz)
2480.000000	1.009900	0.616667	---	2478.995050	2480.004950

(continuation of the "Result" table from column 6 ...)

DUT Frequency (MHz)	Result
2480.000000	PASS

CFS



### Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47800 GHz	2.47800 GHz
Stop Frequency	2.48100 GHz	2.48100 GHz
Span	3.000 MHz	3.000 MHz
RBW	300.000 kHz	<= 300.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	101	~ 10
Sweeptime	1.000 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	22 / max. 150	max. 150
Stable	10 / 10	10
Max Stable Difference	0.05 dB	0.50 dB

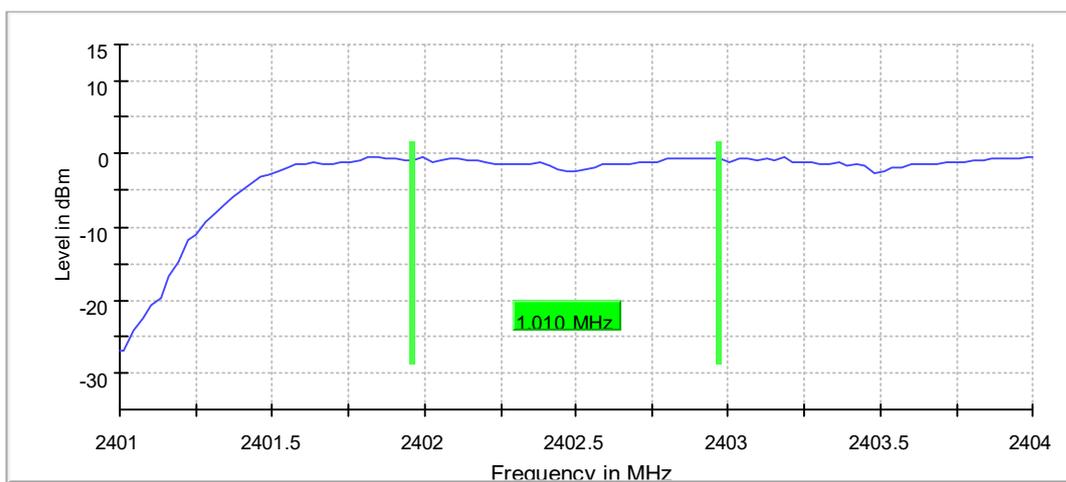
### Carrier Frequency Separation (2-DH5, 2402 MHz)

DUT Frequency (MHz)	Frequency Separation (MHz)	Limit Min (MHz)	Limit Max (MHz)	Center Frequency low Channel (MHz)	Center Frequency high Channel (MHz)
2402.000000	1.009901	0.886667	---	2401.965347	2402.975248

(continuation of the "Result" table from column 6 ...)

DUT Frequency (MHz)	Result
2402.000000	PASS

CFS



### Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40100 GHz	2.40100 GHz
Stop Frequency	2.40400 GHz	2.40400 GHz
Span	3.000 MHz	3.000 MHz
RBW	300.000 kHz	<= 300.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	101	~ 10
Sweeptime	1.000 ms	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	29 / max. 150	max. 150
Stable	10 / 10	10
Max Stable Difference	0.04 dB	0.50 dB

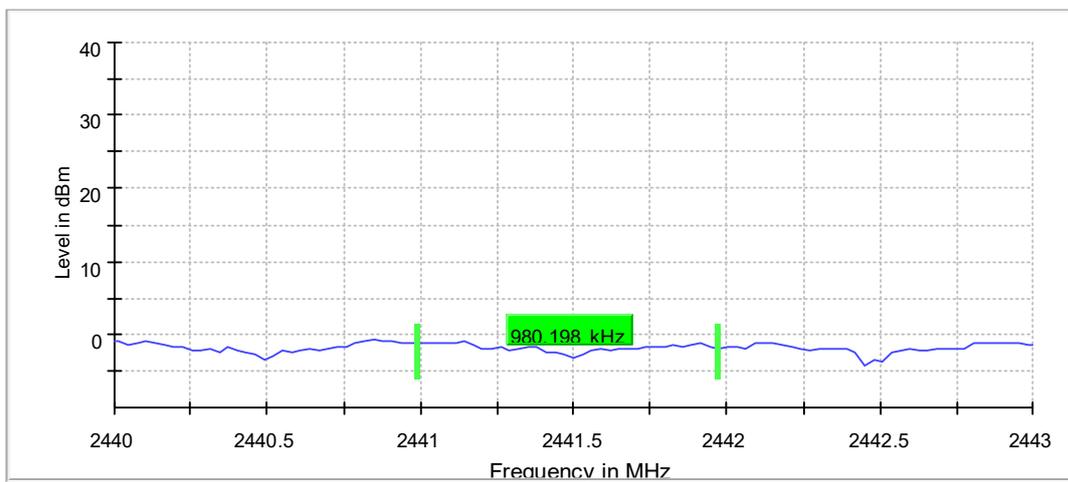
### Carrier Frequency Separation (2-DH5, 2441 MHz)

DUT Frequency (MHz)	Frequency Separation (MHz)	Limit Min (MHz)	Limit Max (MHz)	Center Frequency low Channel (MHz)	Center Frequency high Channel (MHz)
2441.000000	0.980198	0.886667	---	2440.995050	2441.975248

(continuation of the "Result" table from column 6 ...)

DUT Frequency (MHz)	Result
2441.000000	PASS

CFS



### Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.44000 GHz	2.44000 GHz
Stop Frequency	2.44300 GHz	2.44300 GHz
Span	3.000 MHz	3.000 MHz
RBW	300.000 kHz	<= 300.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	101	~ 10
Sweeptime	1.000 ms	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	12 / max. 150	max. 150
Stable	10 / 10	10
Max Stable Difference	0.00 dB	0.50 dB

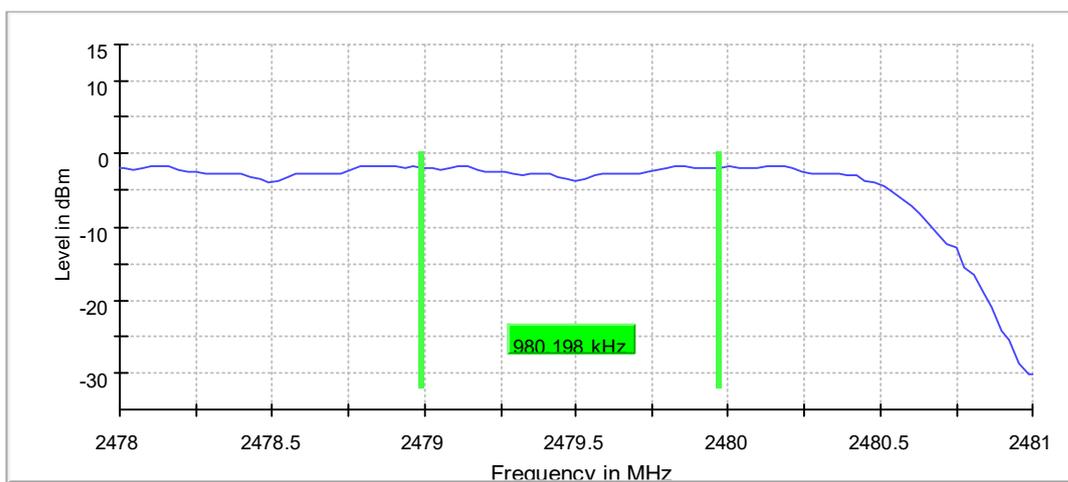
### Carrier Frequency Separation (2-DH5, 2480 MHz)

DUT Frequency (MHz)	Frequency Separation (MHz)	Limit Min (MHz)	Limit Max (MHz)	Center Frequency low Channel (MHz)	Center Frequency high Channel (MHz)
2480.000000	0.980198	0.883333	---	2478.995050	2479.975248

(continuation of the "Result" table from column 6 ...)

DUT Frequency (MHz)	Result
2480.000000	PASS

CFS



### Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47800 GHz	2.47800 GHz
Stop Frequency	2.48100 GHz	2.48100 GHz
Span	3.000 MHz	3.000 MHz
RBW	300.000 kHz	<= 300.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	101	~ 10
Sweeptime	1.000 ms	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	38 / max. 150	max. 150
Stable	10 / 10	10
Max Stable Difference	0.00 dB	0.50 dB

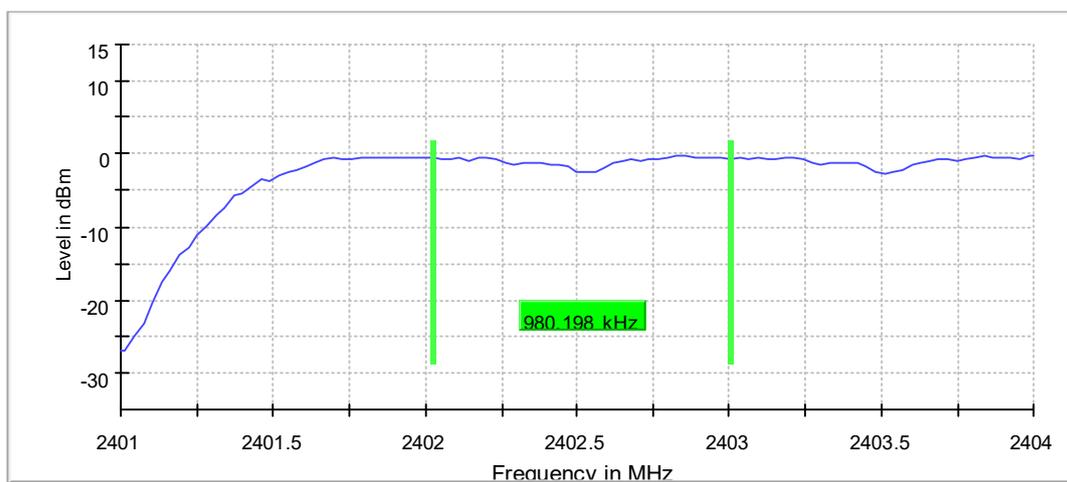
### Carrier Frequency Separation (3-DH5, 2402 MHz)

DUT Frequency (MHz)	Frequency Separation (MHz)	Limit Min (MHz)	Limit Max (MHz)	Center Frequency low Channel (MHz)	Center Frequency high Channel (MHz)
2402.000000	0.980198	0.890000	---	2402.024752	2403.004950

(continuation of the "Result" table from column 6 ...)

DUT Frequency (MHz)	Result
2402.000000	PASS

CFS



### Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40100 GHz	2.40100 GHz
Stop Frequency	2.40400 GHz	2.40400 GHz
Span	3.000 MHz	3.000 MHz
RBW	300.000 kHz	<= 300.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	101	~ 10
Sweeptime	1.000 ms	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	38 / max. 150	max. 150
Stable	10 / 10	10
Max Stable Difference	0.31 dB	0.50 dB

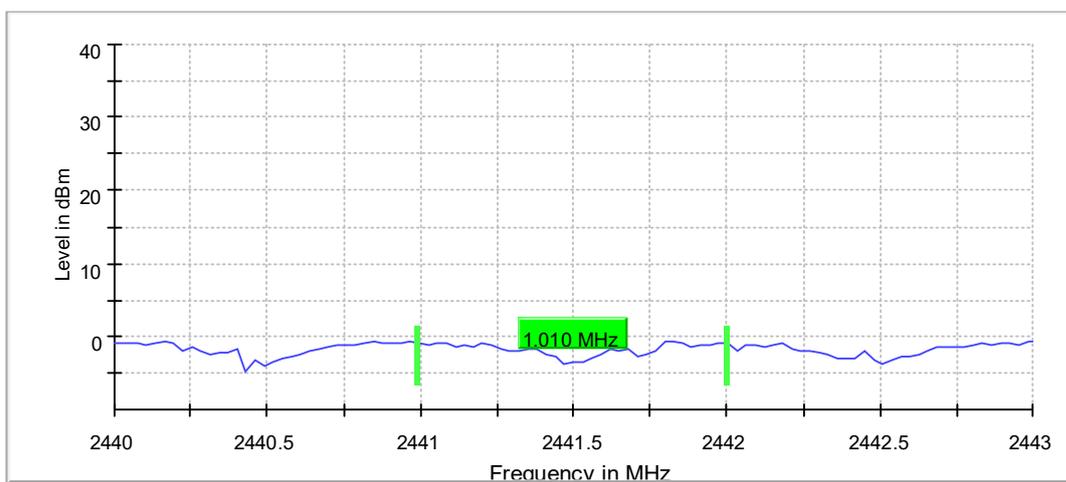
### Carrier Frequency Separation (3-DH5, 2441 MHz)

DUT Frequency (MHz)	Frequency Separation (MHz)	Limit Min (MHz)	Limit Max (MHz)	Center Frequency low Channel (MHz)	Center Frequency high Channel (MHz)
2441.000000	1.009900	0.876667	---	2440.995050	2442.004950

(continuation of the "Result" table from column 6 ...)

DUT Frequency (MHz)	Result
2441.000000	PASS

CFS



### Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.44000 GHz	2.44000 GHz
Stop Frequency	2.44300 GHz	2.44300 GHz
Span	3.000 MHz	3.000 MHz
RBW	300.000 kHz	<= 300.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	101	~ 10
Sweeptime	1.000 ms	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	13 / max. 150	max. 150
Stable	10 / 10	10
Max Stable Difference	0.00 dB	0.50 dB

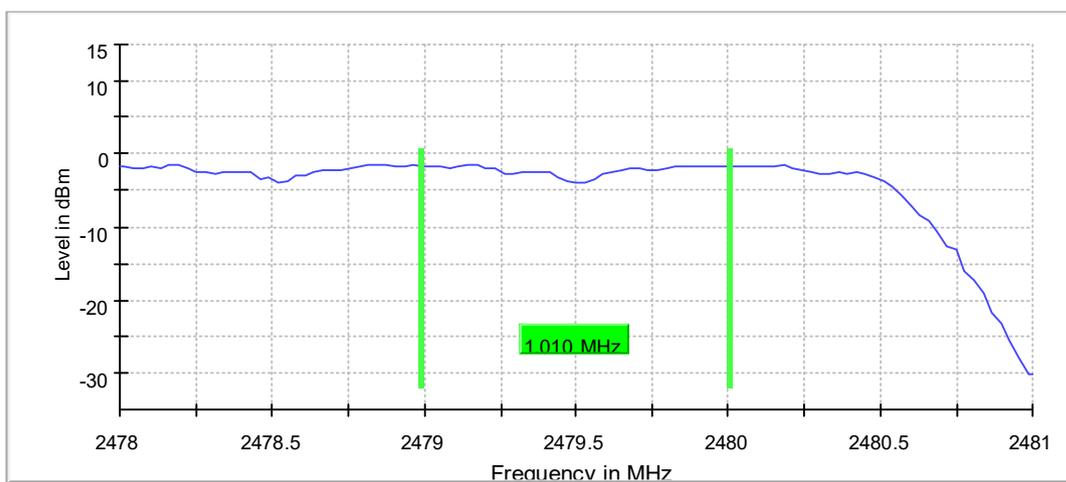
### Carrier Frequency Separation (3-DH5, 2480 MHz)

DUT Frequency (MHz)	Frequency Separation (MHz)	Limit Min (MHz)	Limit Max (MHz)	Center Frequency low Channel (MHz)	Center Frequency high Channel (MHz)
2480.000000	1.009900	0.876667	---	2478.995050	2480.004950

(continuation of the "Result" table from column 6 ...)

DUT Frequency (MHz)	Result
2480.000000	PASS

CFS



### Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47800 GHz	2.47800 GHz
Stop Frequency	2.48100 GHz	2.48100 GHz
Span	3.000 MHz	3.000 MHz
RBW	300.000 kHz	<= 300.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	101	~ 10
Sweeptime	1.000 ms	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	40 / max. 150	max. 150
Stable	10 / 10	10
Max Stable Difference	0.16 dB	0.50 dB

### 5.1.5 Number of Hopping Frequency

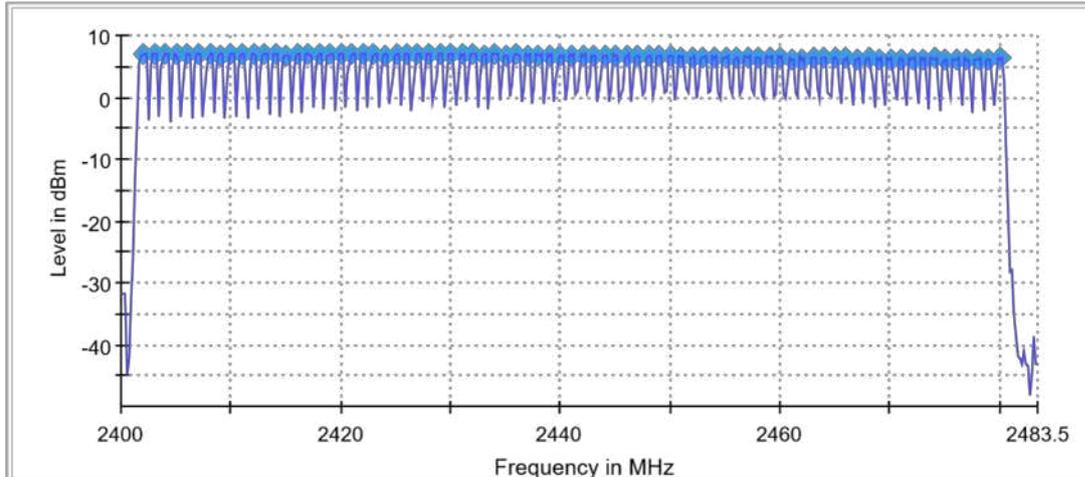
**RESULT:****Pass**

Date of testing	:	2025-04-16
Ambient temperature	:	20.2°C
Relative humidity	:	52.2%
Atmospheric pressure	:	101kPa
Test requirement	:	FCC 15.247(a)(1)(iii) RSS-247 Issue 3, August 2023, Clause 5.1(d)
Test procedure	:	ANSI C63.10-2020+Cor. 1-2023+C63.10a- 2024+Errata to C63.10a-2024
Test voltage	:	DC 3.3V
Test modes applied	:	A

## Hopping Frequencies (1-DH5)

Channels	Limit Min	Limit Max	Result
79	15	---	PASS

Sequence



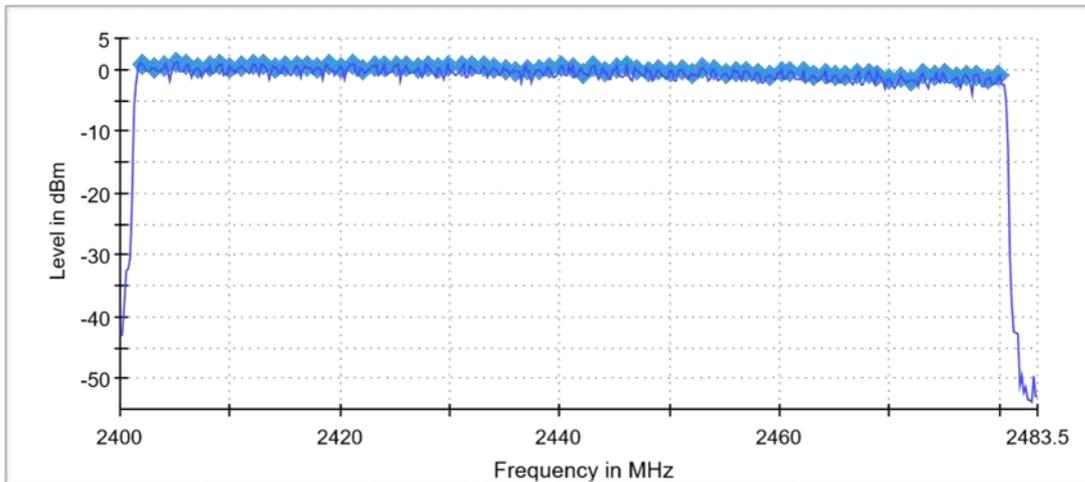
## Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.48350 GHz	2.48350 GHz
Span	83.500 MHz	83.500 MHz
RBW	200.000 kHz	<= 299.000 kHz
VBW	200.000 kHz	>= 200.000 kHz
SweepPoints	418	~ 418
Sweeptime	1.060 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	63 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.25 dB	0.50 dB

## Hopping Frequencies (2-DH5)

Channels	Limit Min	Limit Max	Result
79	15	---	PASS

Sequence



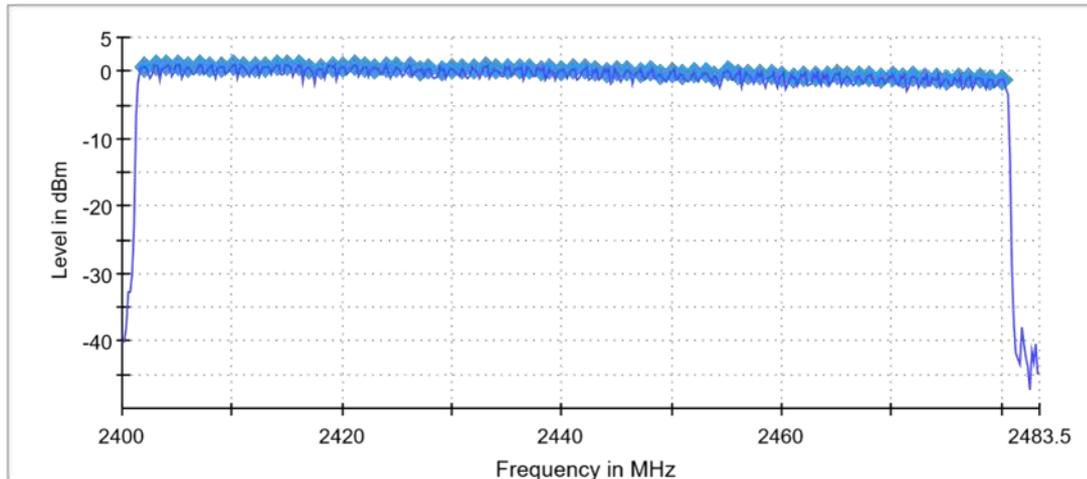
## Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.48350 GHz	2.48350 GHz
Span	83.500 MHz	83.500 MHz
RBW	200.000 kHz	<= 299.000 kHz
VBW	200.000 kHz	>= 200.000 kHz
SweepPoints	418	~ 418
Sweeptime	1.060 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	73 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.43 dB	0.50 dB

## Hopping Frequencies (3-DH5)

Channels	Limit Min	Limit Max	Result
79	15	---	PASS

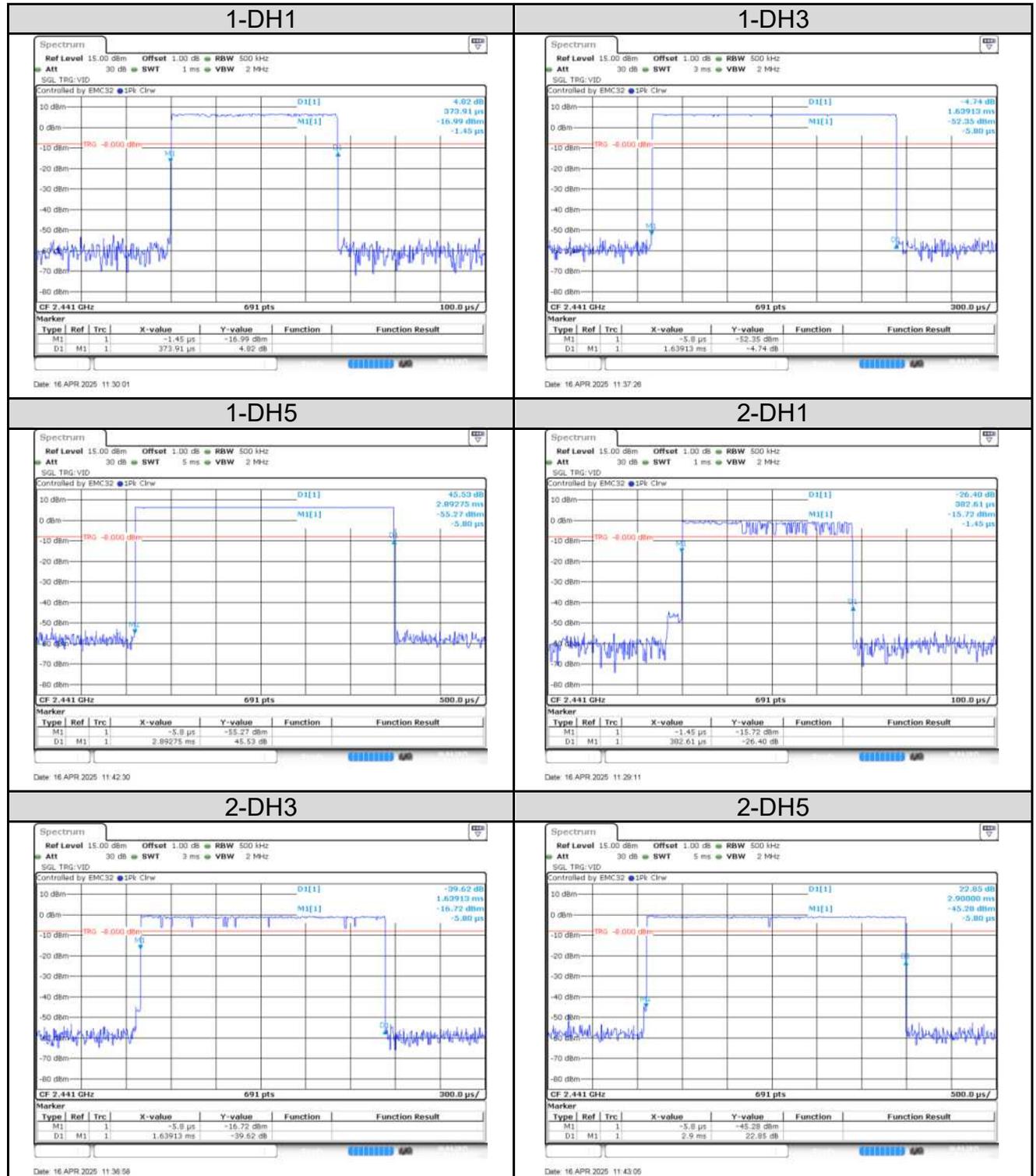
Sequence

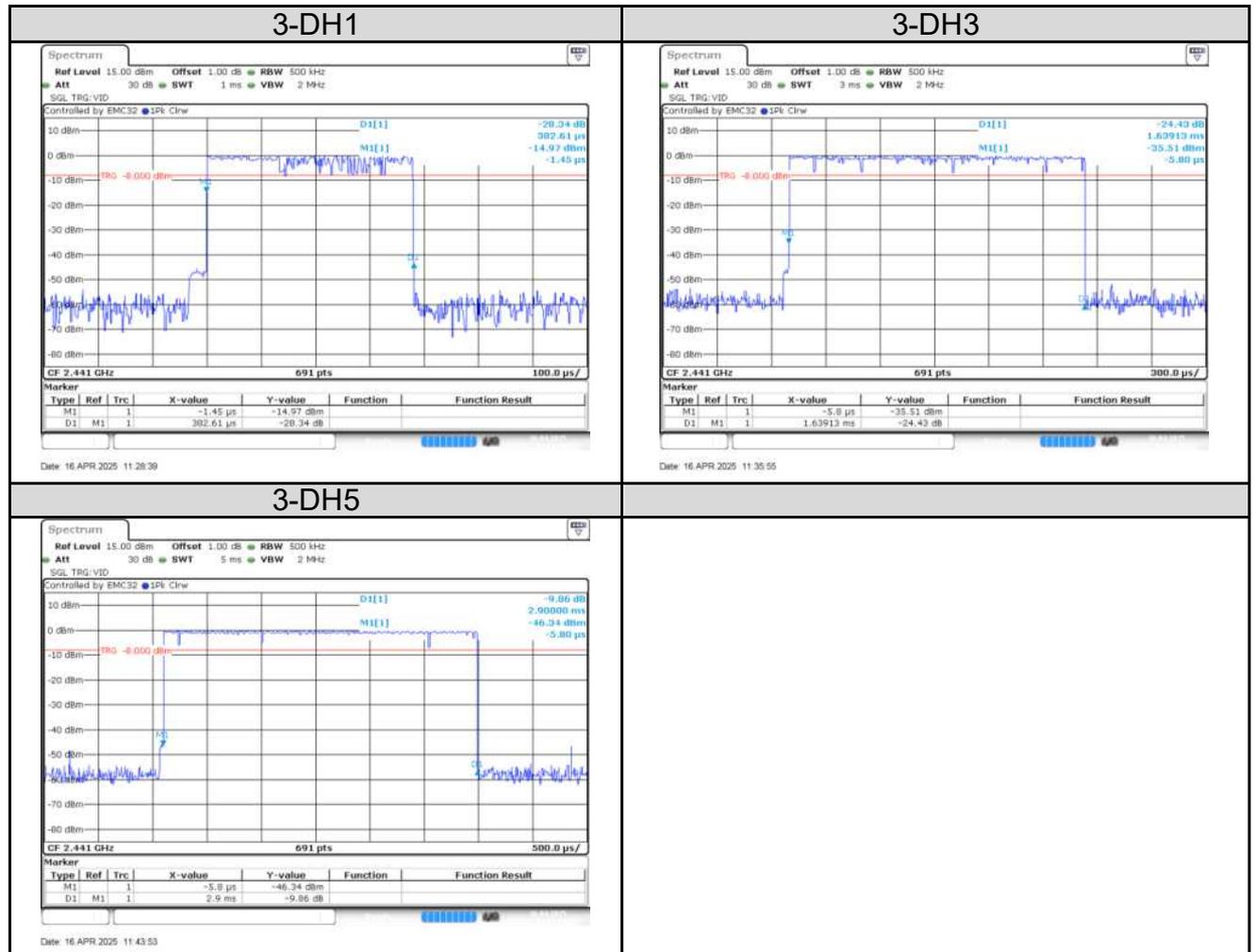


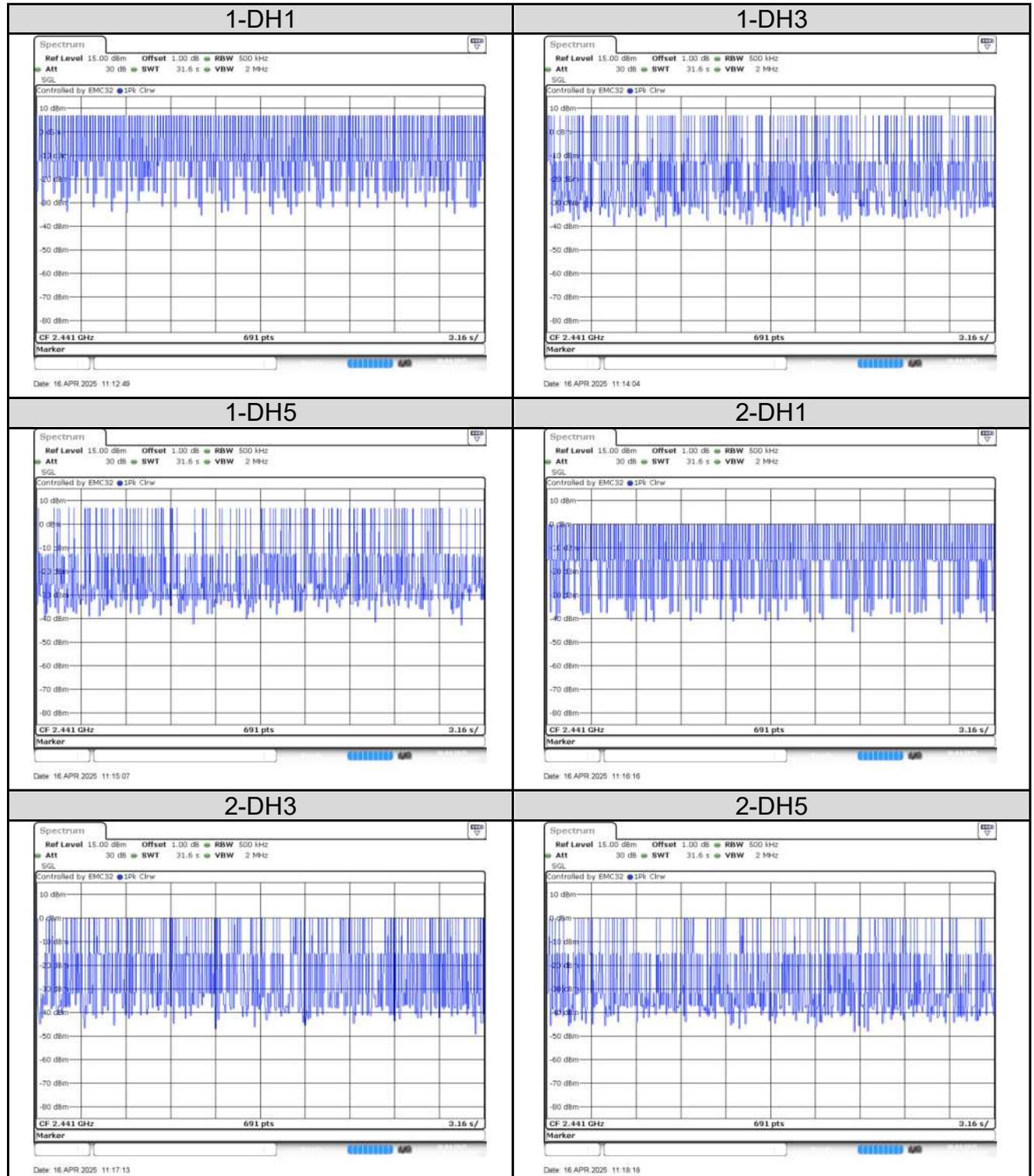
## Measurement

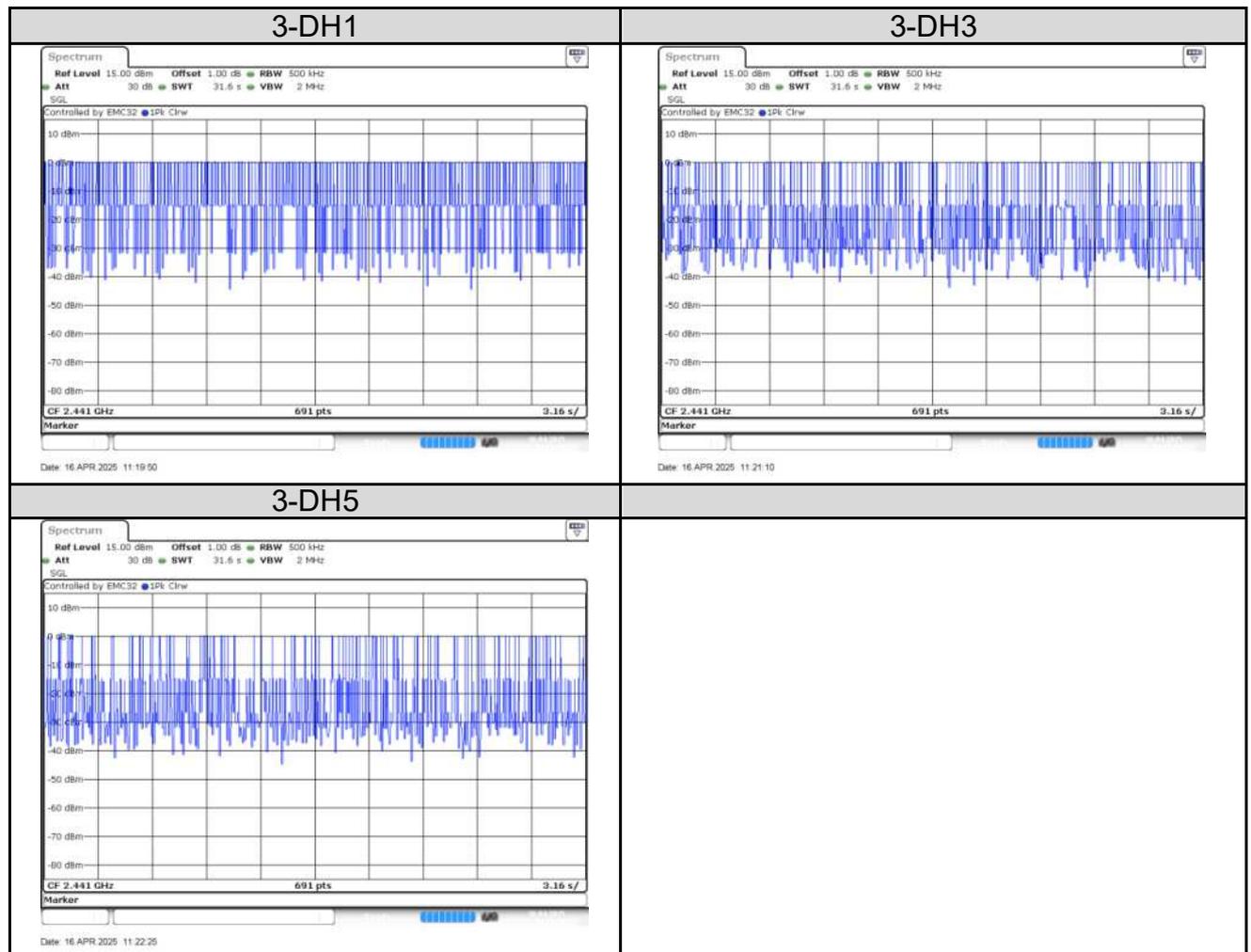
Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.48350 GHz	2.48350 GHz
Span	83.500 MHz	83.500 MHz
RBW	200.000 kHz	<= 299.000 kHz
VBW	200.000 kHz	>= 200.000 kHz
SweepPoints	418	~ 418
Sweeptime	1.060 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	123 / max.150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.18 dB	0.50 dB



**Figure 1: Dwell Time**




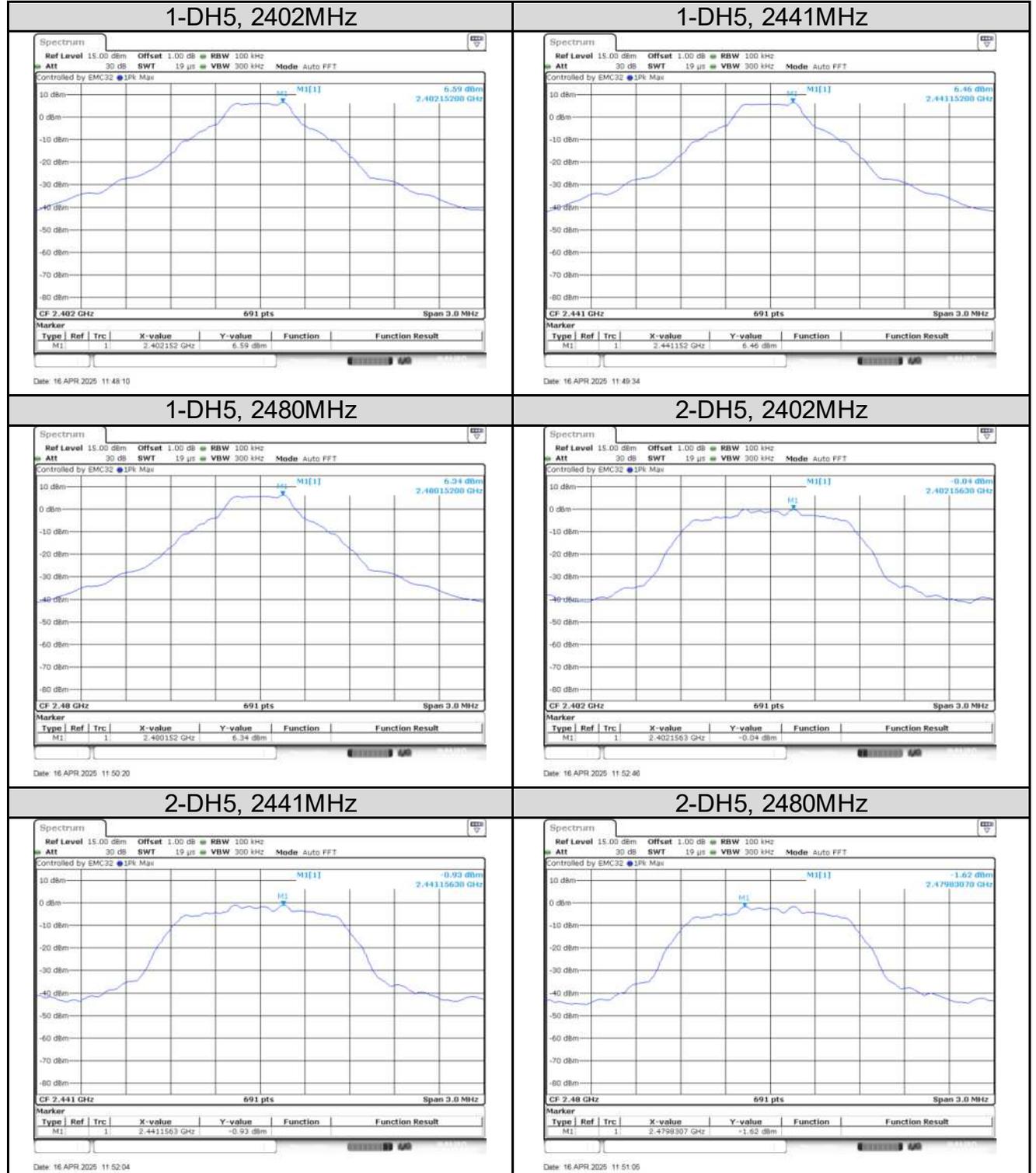
**Figure 2: Number of Hops**




### 5.1.7 Conducted Band Edge and out-of Band Emissions

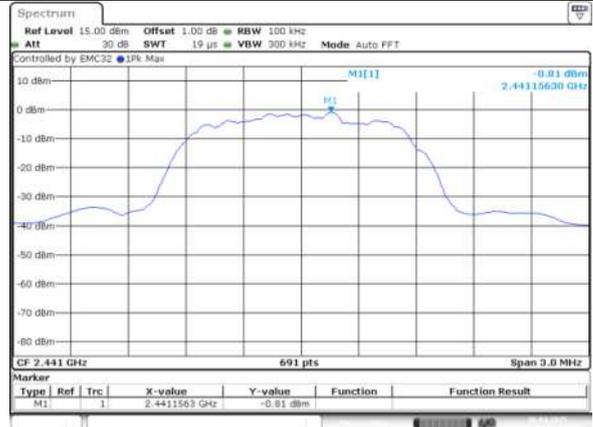
**RESULT:****Pass**

Date of testing : 2025-04-10~2025-04~16  
Ambient temperature : 20.2°C  
Relative humidity : 52.2%  
Atmospheric pressure : 101kPa  
Test requirement : FCC Part 15.247(d)  
RSS-247 Issue 3, August 2023, Clause 5.5  
Test procedure : ANSI C63.10-2020+Cor. 1-2023+C63.10a-  
2024+Errata to C63.10a-2024  
Test voltage : DC 3.3V  
Test modes applied : A

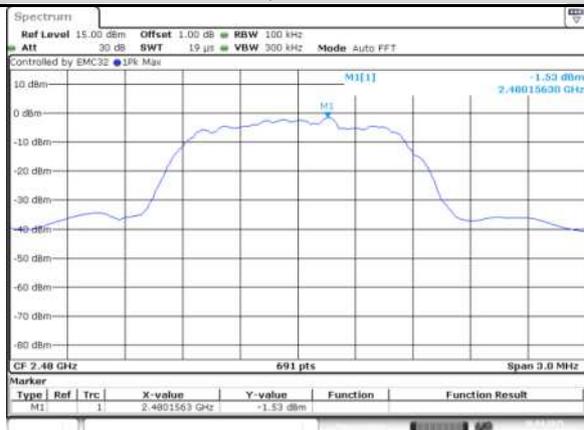
**Figure 3: Reference Level**


**3-DH5, 2402MHz**

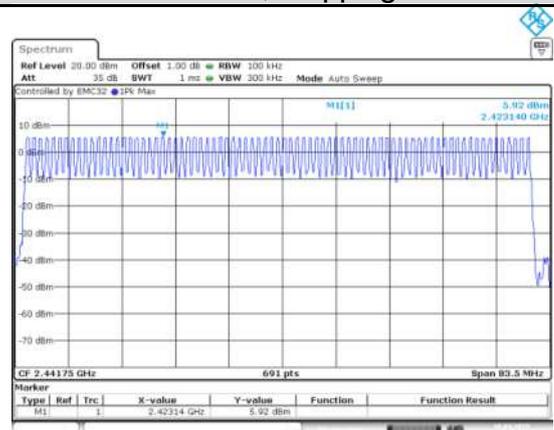

Date: 16 APR 2025 11:53:21

**3-DH5, 2441MHz**


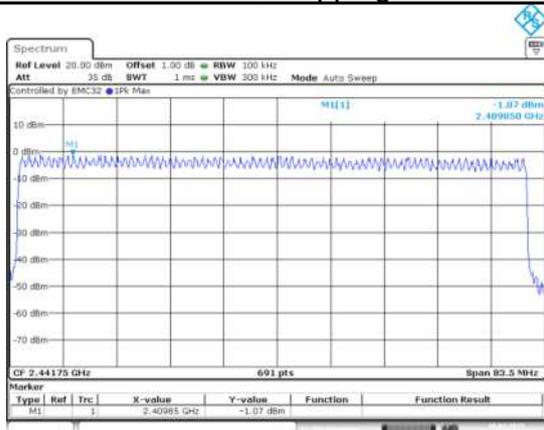
Date: 16 APR 2025 11:54:01

**3-DH5, 2480MHz**


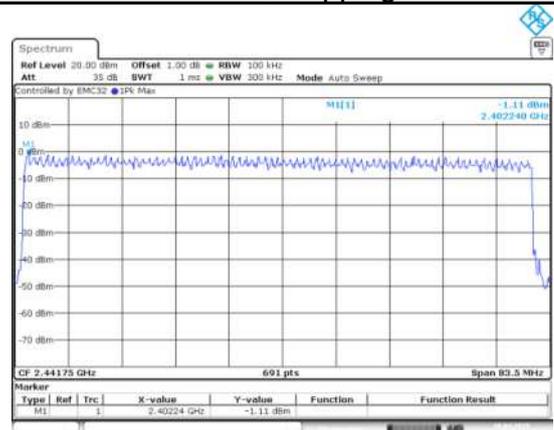
Date: 16 APR 2025 11:54:31

**1-DH5, Hopping**


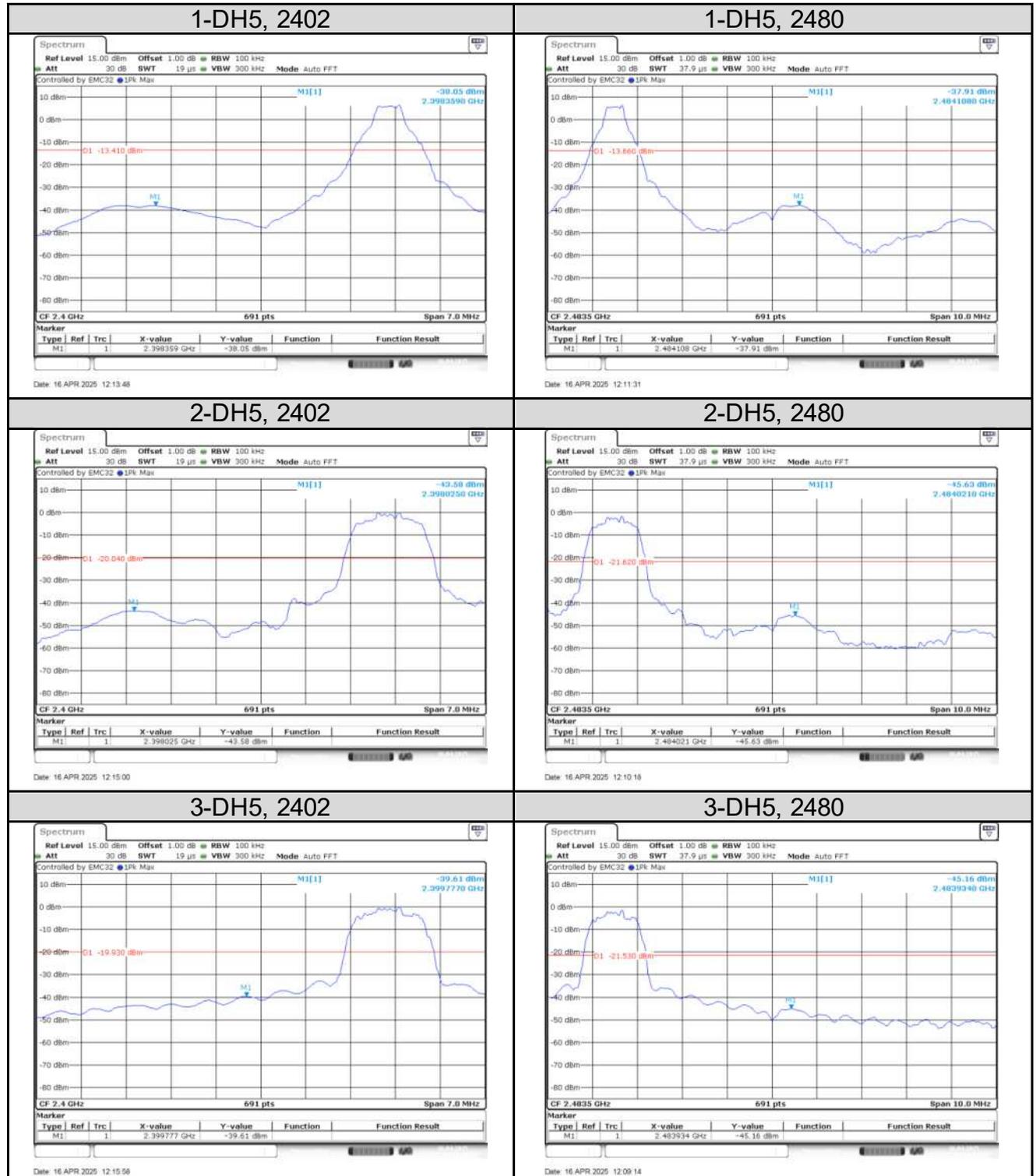
Date: 10 APR 2025 23:44:26

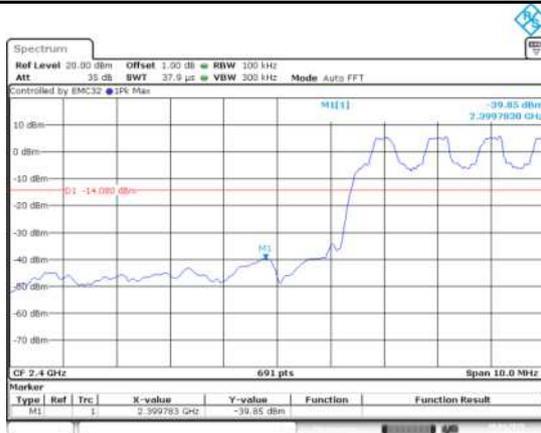
**2-DH5, Hopping**


Date: 10 APR 2025 23:45:54

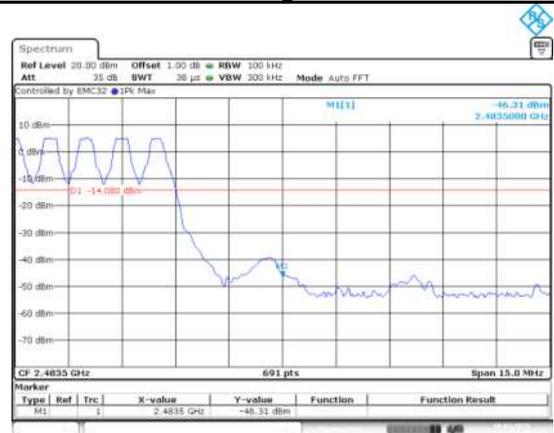
**3-DH5, Hopping**


Date: 10 APR 2025 23:46:54

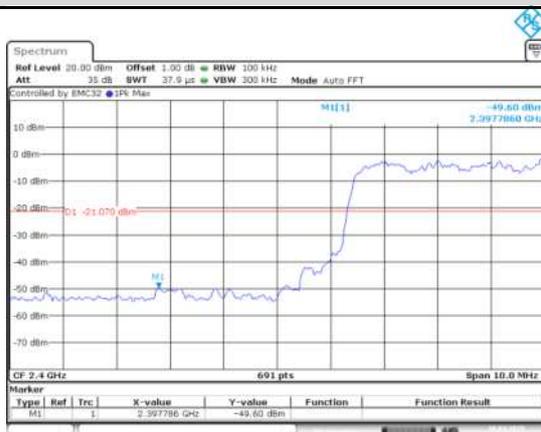
**Figure 4: Conducted Band Edge**


**1-DH5, lower band**


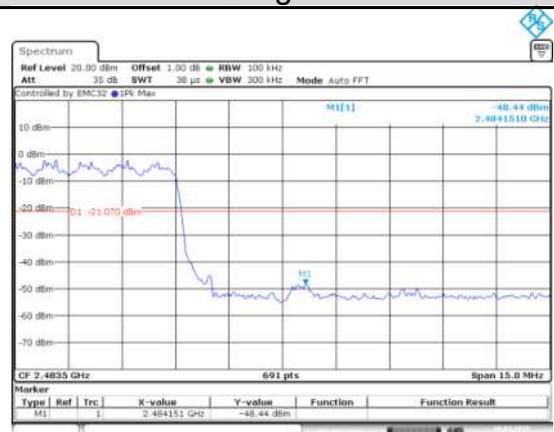
Date: 10 APR 2025 23:58:09

**1-DH5, higher band**


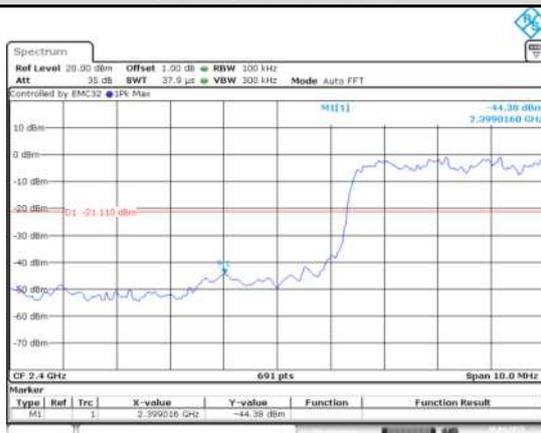
Date: 10 APR 2025 23:57:40

**2-DH5 lower band**


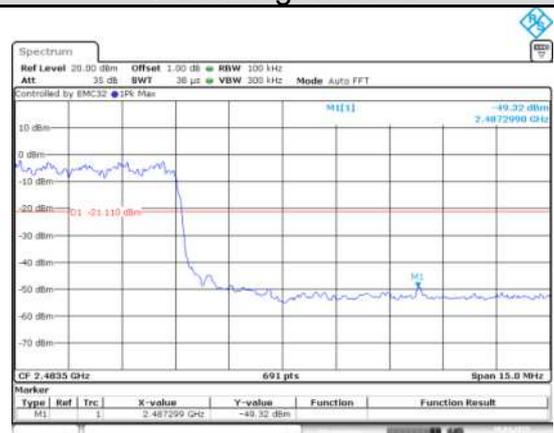
Date: 10 APR 2025 23:54:54

**2-DH5 higher band**


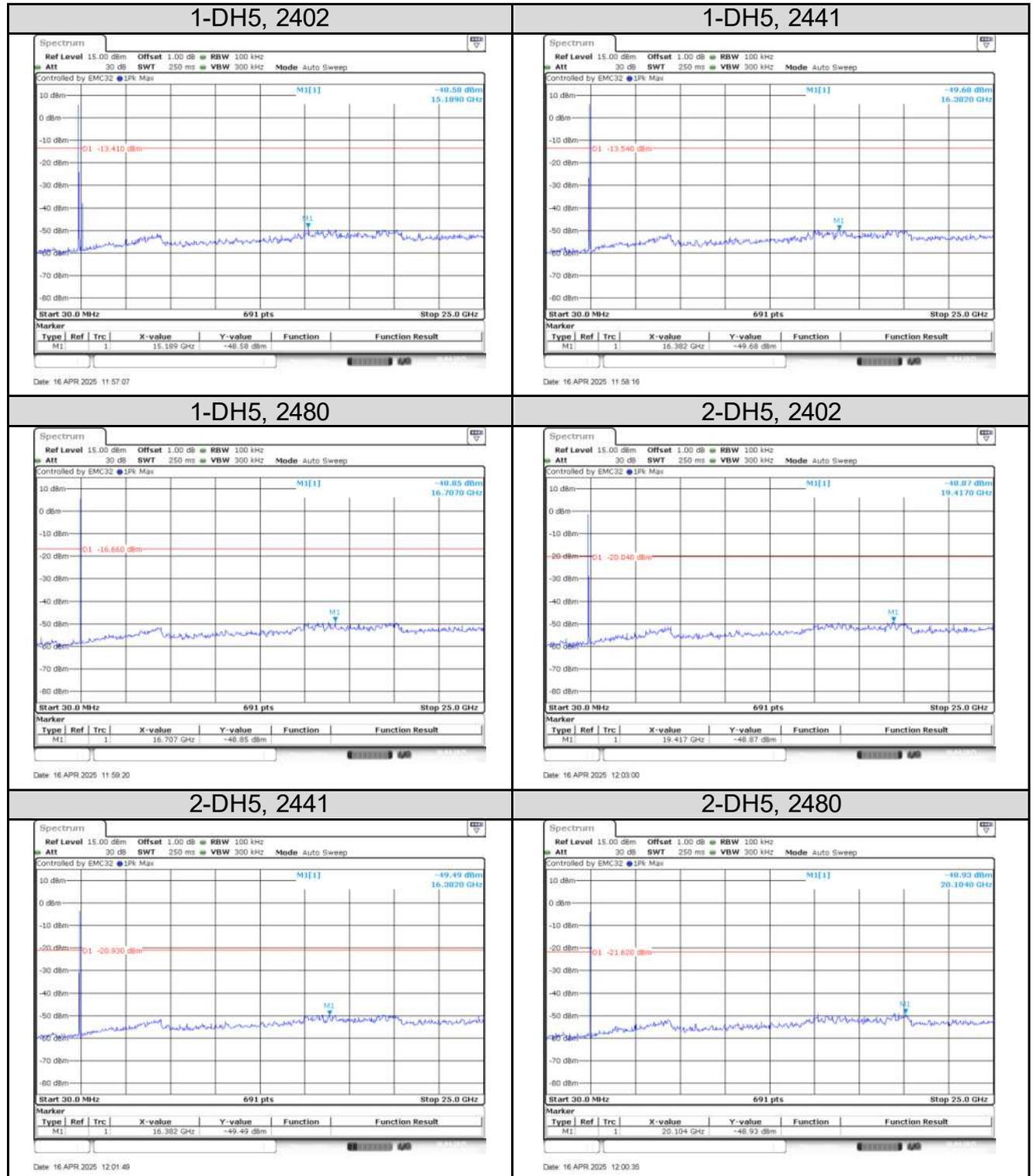
Date: 10 APR 2025 23:53:34

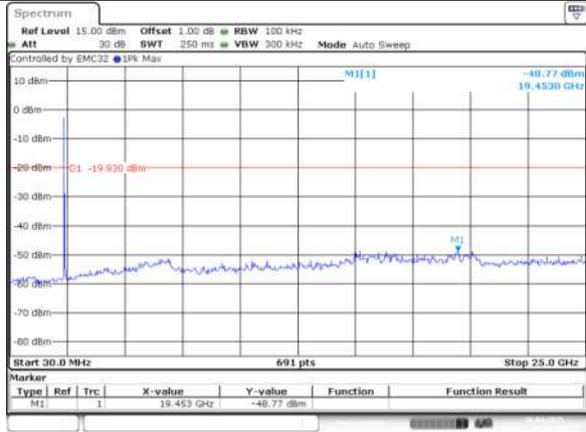
**3-DH5 lower band**


Date: 10 APR 2025 23:49:32

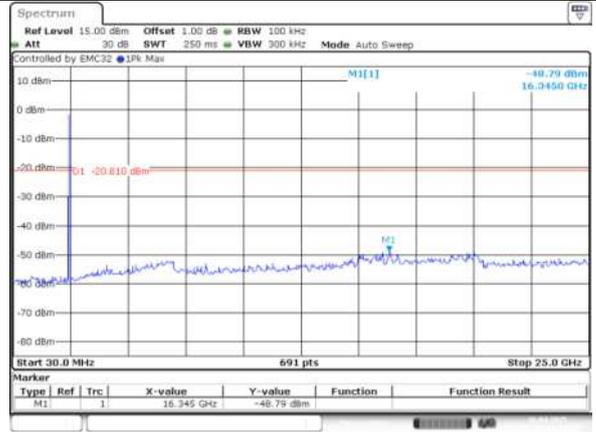
**3-DH5 higher band**


Date: 10 APR 2025 23:51:41

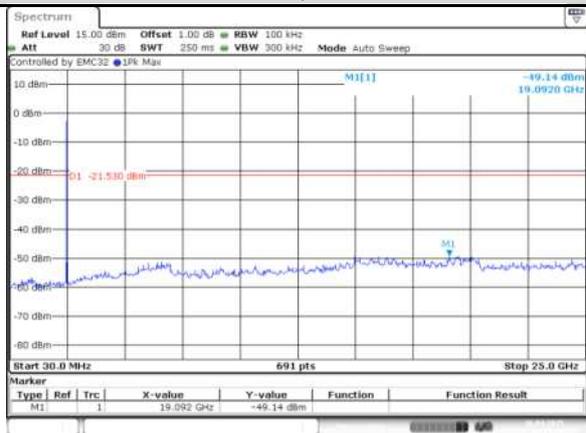
**Figure 5: Conducted Spurious Emission**


**3-DH5, 2402**


Date: 16 APR 2025 12:04:47

**3-DH5, 2441**


Date: 16 APR 2025 12:06:11

**3-DH5, 2480**


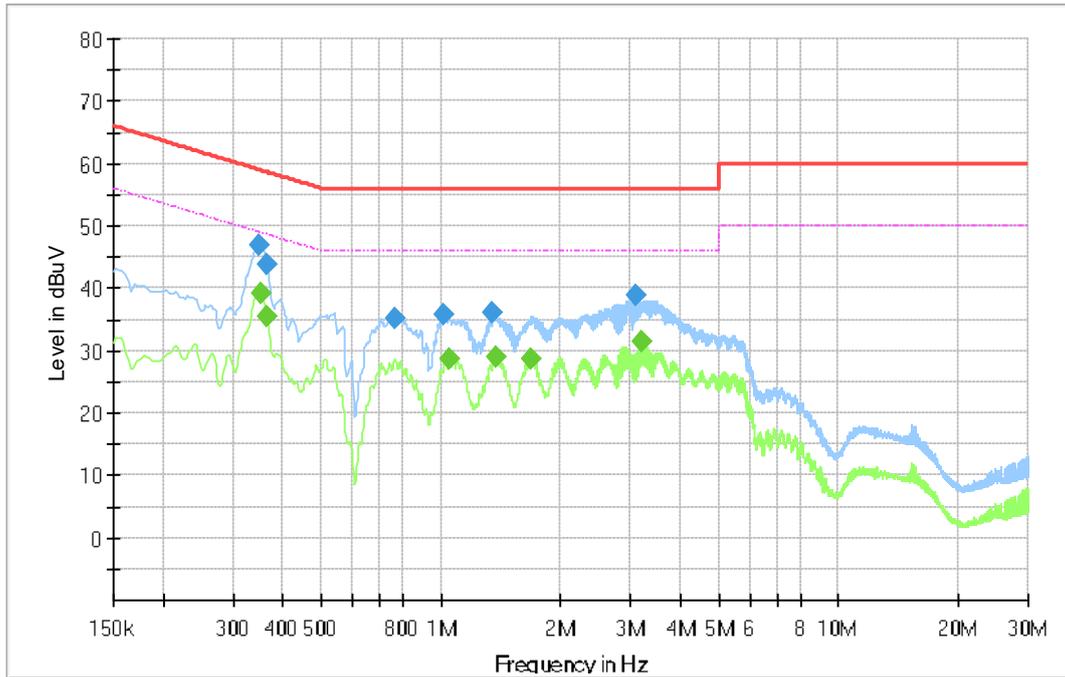
Date: 16 APR 2025 12:07:16

## 5.2 Emission in the Frequency Range up to 30MHz

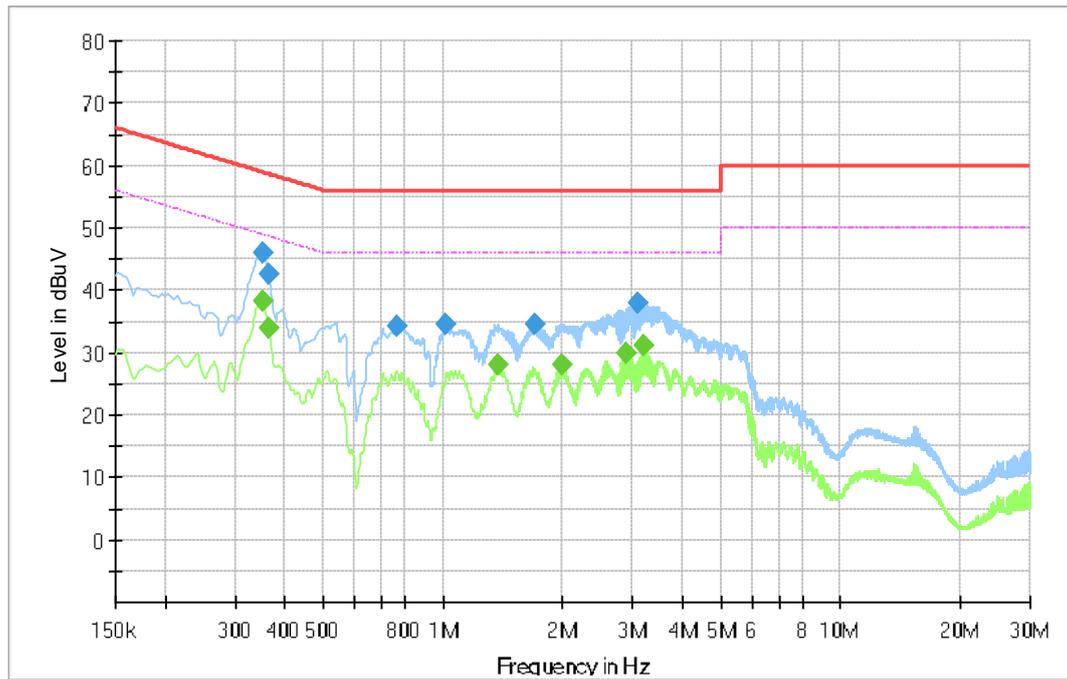
### 5.2.1 Conducted Emission

**RESULT:****Pass**

Date of testing	:	2025-02-26
Ambient temperature	:	22.4°C
Relative humidity	:	50.0%
Atmospheric pressure	:	101kPa
Test requirement	:	FCC Part 15.207 (a) RSS-Gen Issue 5, Amendment 2, February 2021, Clause 8.8
Test procedure	:	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024
Test voltage	:	AC 120V, 60Hz
Test modes applied	:	B

**Figure 6: Conducted Emission, L**

**Final Result**

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.350250	46.78	---	58.96	12.18	1000.0	9.000	L1	10.3
0.352500	---	39.15	48.90	9.76	1000.0	9.000	L1	10.3
0.363750	---	35.35	48.64	13.29	1000.0	9.000	L1	10.3
0.363750	43.85	---	58.64	14.79	1000.0	9.000	L1	10.3
0.766500	35.13	---	56.00	20.87	1000.0	9.000	L1	10.4
1.020750	35.72	---	56.00	20.28	1000.0	9.000	L1	10.7
1.047750	---	28.73	46.00	17.27	1000.0	9.000	L1	10.7
1.351500	35.94	---	56.00	20.06	1000.0	9.000	L1	10.4
1.378500	---	28.96	46.00	17.04	1000.0	9.000	L1	10.4
1.684500	---	28.77	46.00	17.23	1000.0	9.000	L1	10.2
3.102000	38.73	---	56.00	17.27	1000.0	9.000	L1	10.2
3.210000	---	31.60	46.00	14.40	1000.0	9.000	L1	10.2

**Figure 7: Conducted Emission, N**

**Final Result**

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.352500	---	38.11	48.90	10.79	1000.0	9.000	N	10.4
0.352500	45.85	---	58.90	13.06	1000.0	9.000	N	10.4
0.363750	---	34.03	48.64	14.61	1000.0	9.000	N	10.4
0.363750	42.57	---	58.64	16.07	1000.0	9.000	N	10.4
0.764250	34.12	---	56.00	21.88	1000.0	9.000	N	10.4
1.018500	34.42	---	56.00	21.58	1000.0	9.000	N	10.4
1.376250	---	28.01	46.00	17.99	1000.0	9.000	N	10.4
1.707000	34.68	---	56.00	21.32	1000.0	9.000	N	10.5
1.986000	---	28.09	46.00	17.91	1000.0	9.000	N	10.5
2.904000	---	30.01	46.00	15.99	1000.0	9.000	N	10.6
3.102000	38.06	---	56.00	17.94	1000.0	9.000	N	10.6
3.210000	---	31.00	46.00	15.00	1000.0	9.000	N	10.6

## 5.3 Emission in the Frequency Range above 30MHz

### 5.3.1 Radiated Band-Edge

**RESULT:****Pass**

Date of testing	:	2025-04-17
Ambient temperature	:	20.5°C
Relative humidity	:	52.7%
Atmospheric pressure	:	101kPa
Test requirement	:	FCC Part 15.247(d) FCC Part 15.205(a) FCC Part 15.209(a) RSS-Gen Issue 5, Amendment 2, February 2021, Clause 8.9 RSS-Gen Issue 5, Amendment 2, February 2021, Clause 8.10 RSS-247 Issue 3, August 2023, Clause 5.5
Test procedure	:	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024
Test voltage	:	DC 3.3V
Test modes applied	:	A

**Note:**

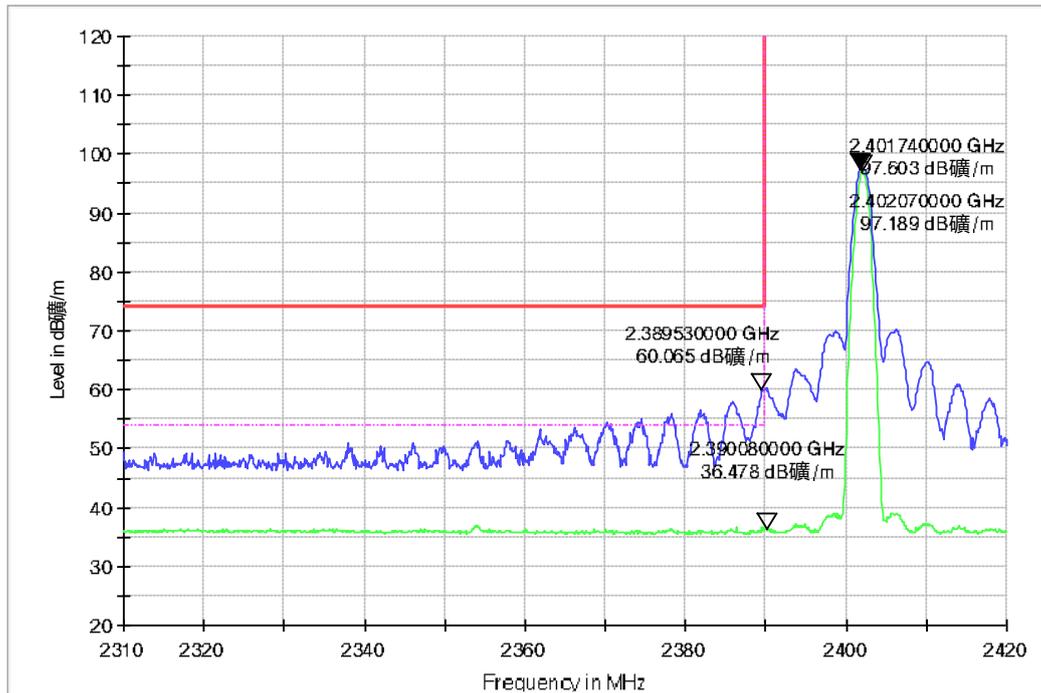
All the test modes were applied, only the worst case were shown in this report.

**Prüfbericht - Nr.: CN25R368 001**  
*Test Report No.*

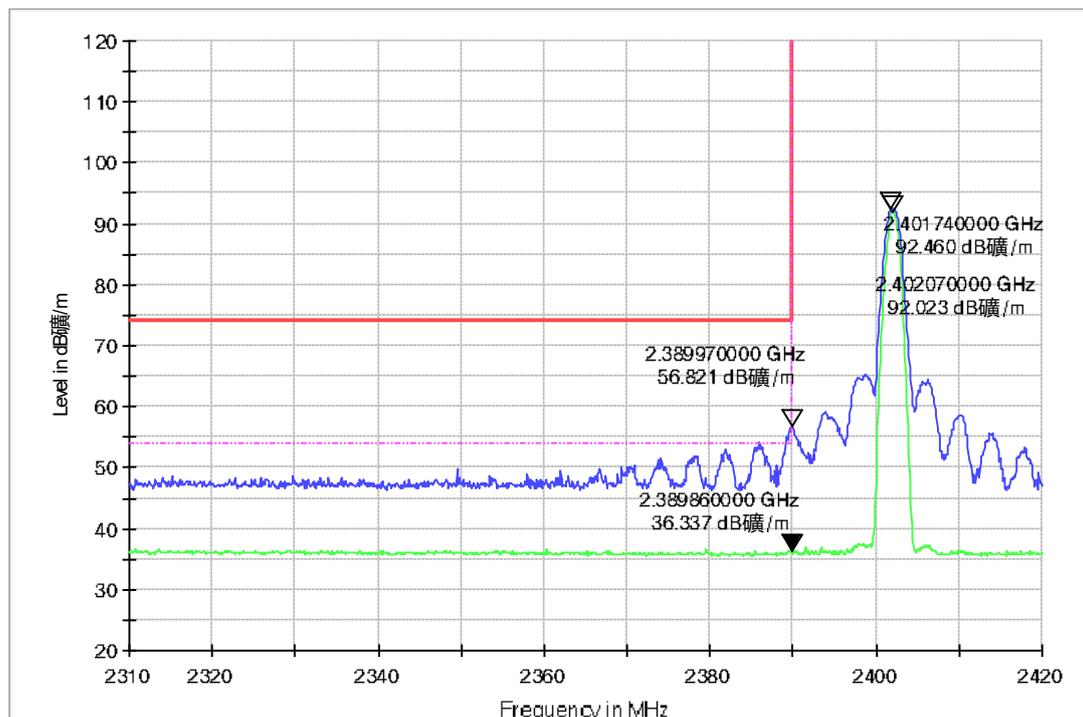
**Seite 58 von 76**  
*Page 58 of 76*

**Figure 8: Radiated Band-Edge, 1-DH5, 2402, H**

XXY-2310~2410 BE 1-18GHz\_HL050\_FSV40\_Pre-10-YUNFANG

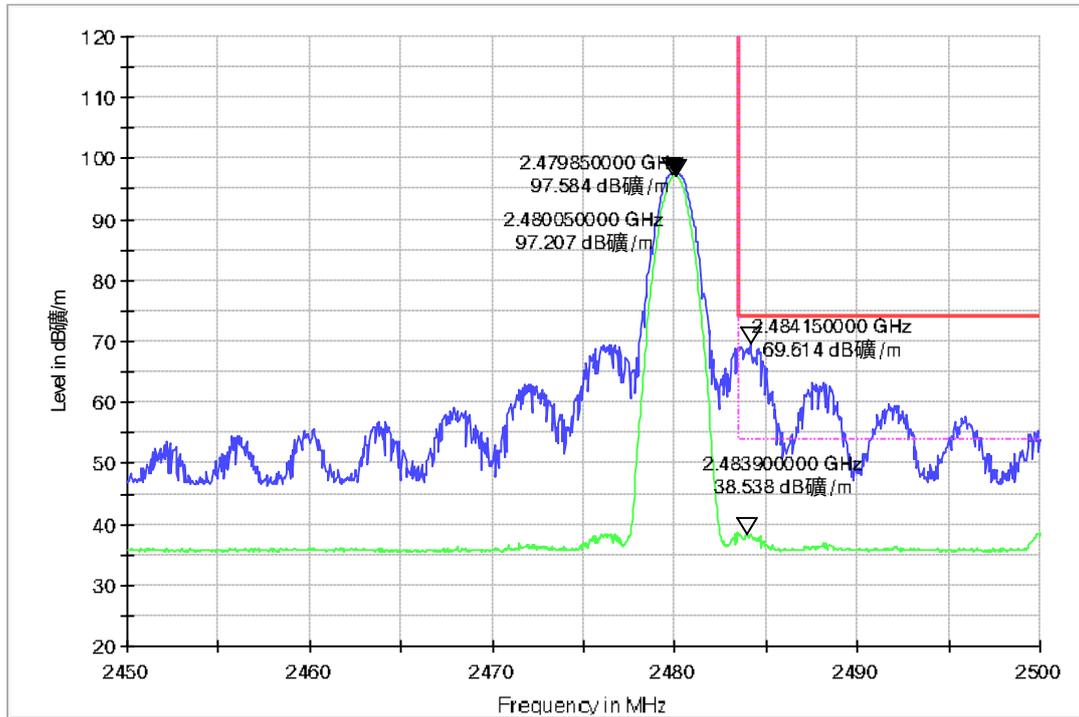

**Figure 9: Radiated Band-Edge, 1-DH5, 2402, V**

XXY-2310~2410 BE 1-18GHz\_HL050\_FSV40\_Pre-10-YUNFANG

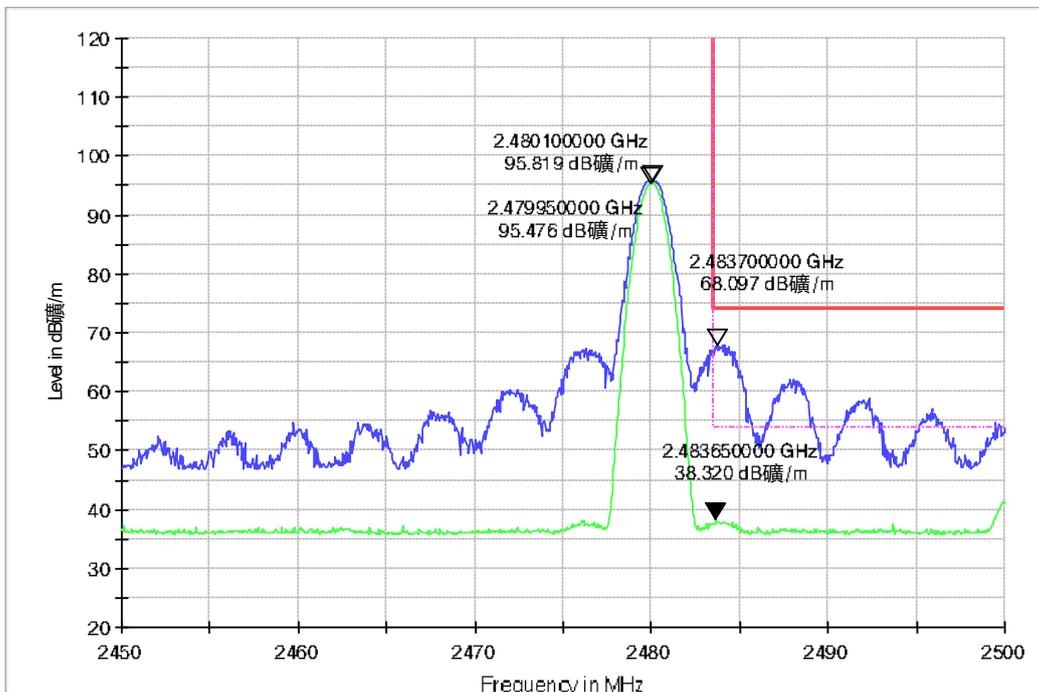


**Figure 10: Radiated Band-Edge, 1-DH5, 2480, H**

XXY-2470° 2500 BE\_1-18GHz\_HL050\_FSV40\_Pre-10-YUNFANG

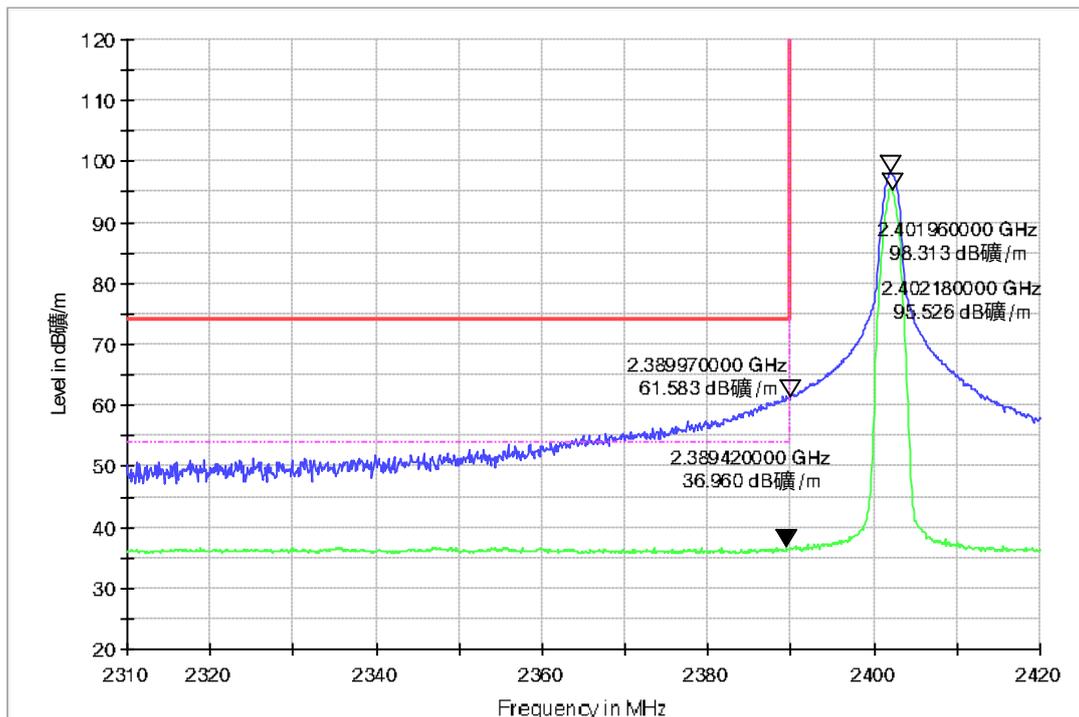

**Figure 11: Radiated Band-Edge, 1-DH5, 2480, V**

XXY-2470° 2500 BE\_1-18GHz\_HL050\_FSV40\_Pre-10-YUNFANG

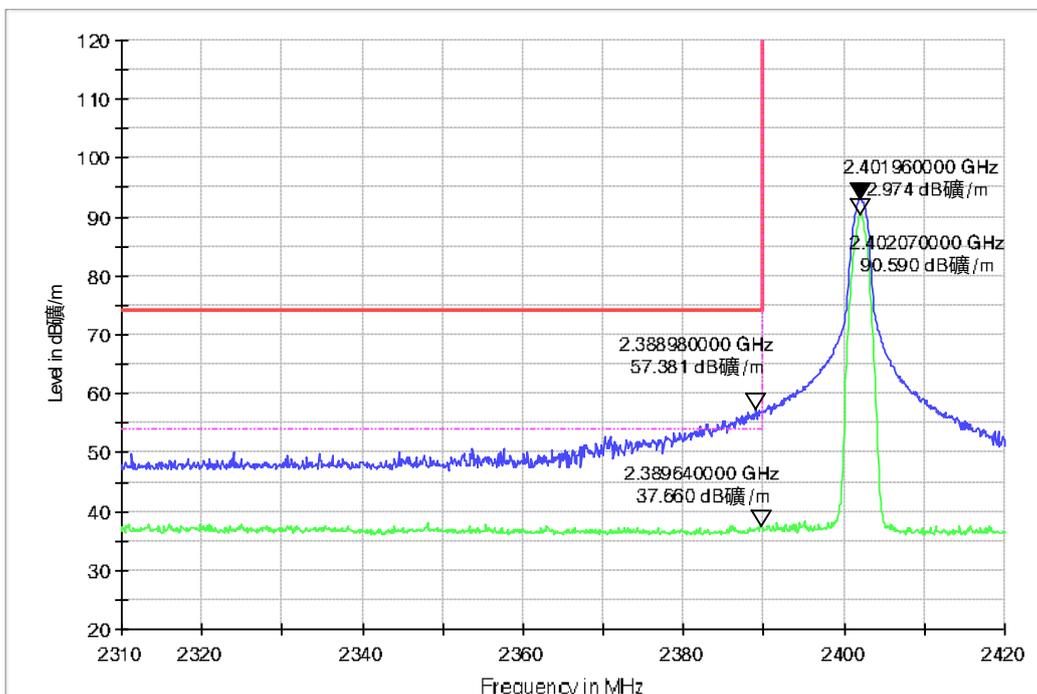


**Figure 12: Radiated Band-Edge, 3-DH5, 2402, H**

XXY- 2310~ 2410 BE 1-18GHz\_HL050\_FSV40\_Pre-10-YUNFANG

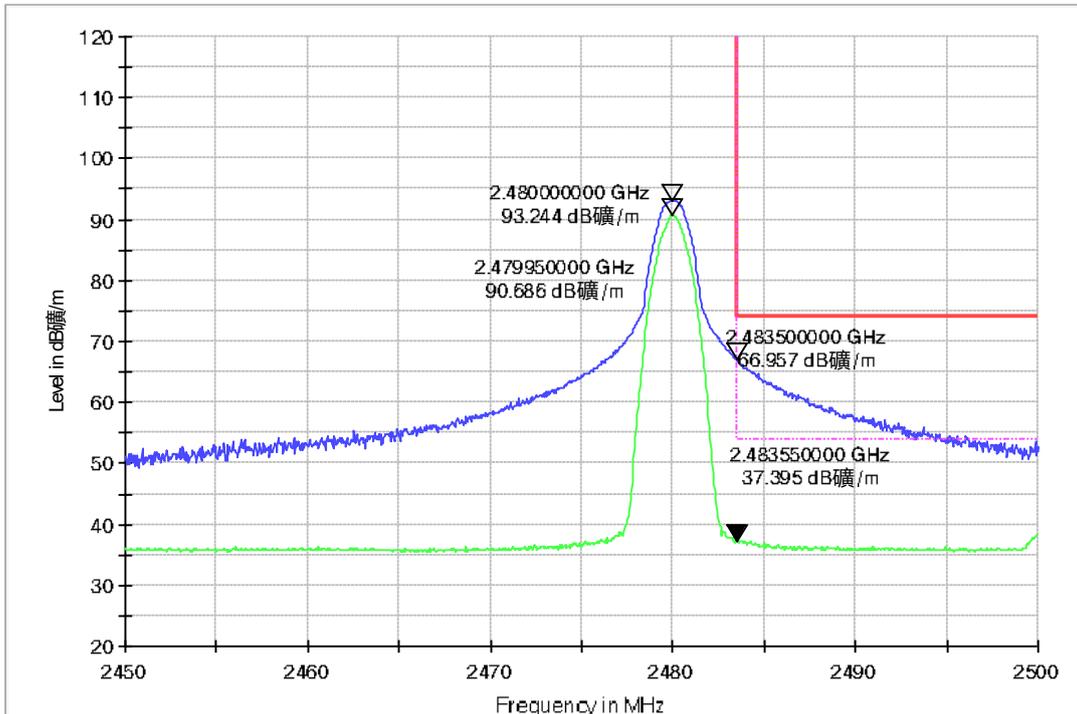

**Figure 13: Radiated Band-Edge, 3-DH5, 2402, V**

XXY- 2310~ 2410 BE 1-18GHz\_HL050\_FSV40\_Pre-10-YUNFANG

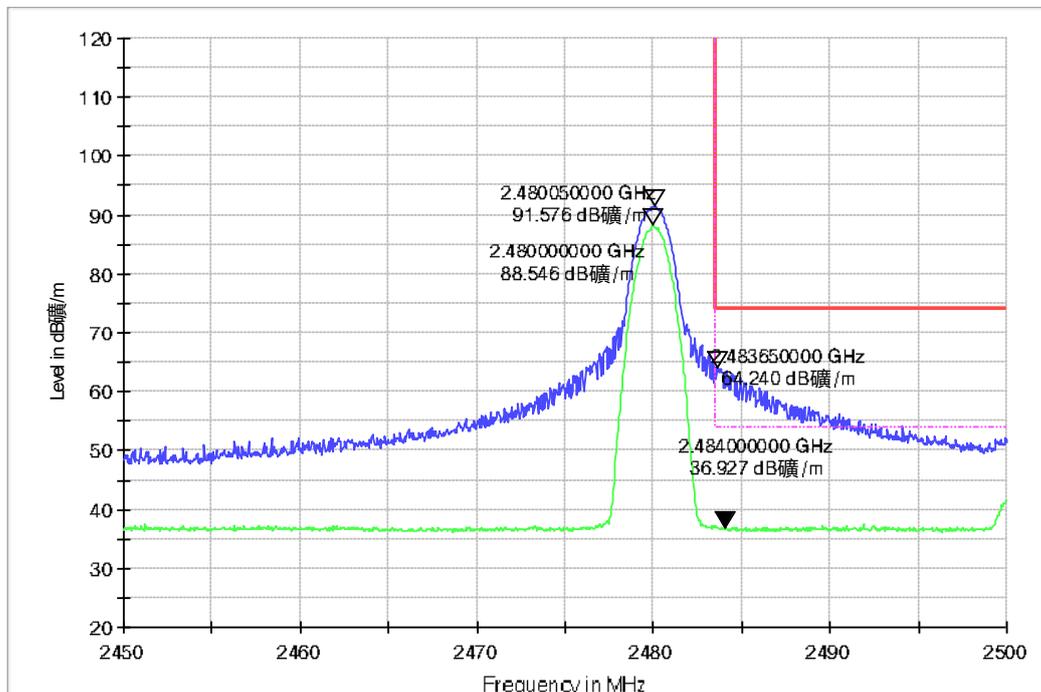


**Figure 14: Radiated Band-Edge, 3-DH5, 2480, H**

XXY-2470° 2500 BE\_1-18GHz\_HL050\_FSV40\_Pre-10-YUNFANG


**Figure 15: Radiated Band-Edge, 3-DH5, 2480, V**

XXY-2470° 2500 BE\_1-18GHz\_HL050\_FSV40\_Pre-10-YUNFANG



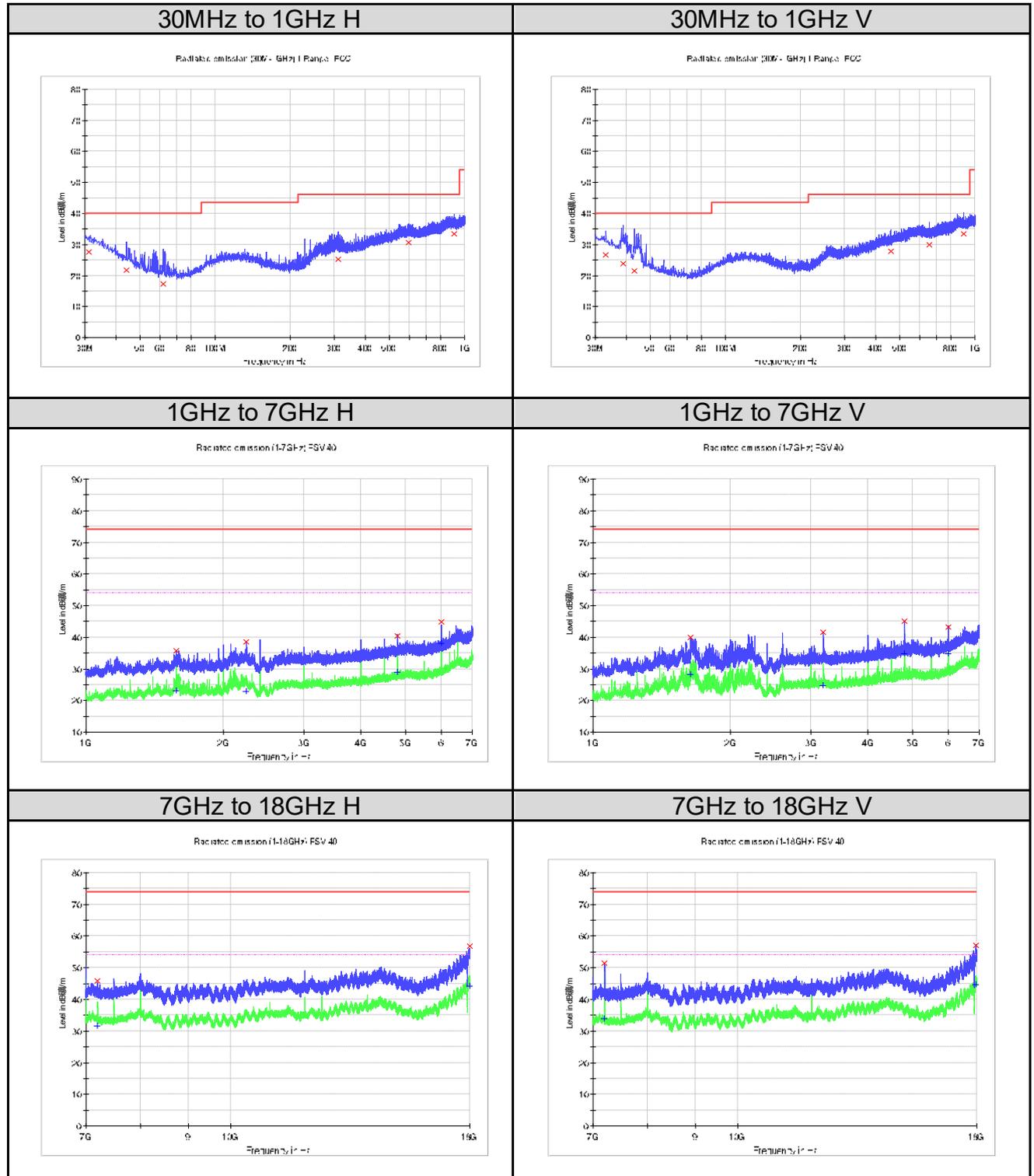
### 5.3.2 Radiated Spurious Emission

**RESULT:****Pass**

Date of testing	:	2025-04-17
Ambient temperature	:	20.5°C
Relative humidity	:	52.7%
Atmospheric pressure	:	101kPa
Test requirement	:	FCC Part 15.247(d) FCC Part 15.209(a) RSS-Gen Issue 5, Amendment 2, February 2021, Clause 8.9 RSS-247 Issue 3, August 2023, Clause 5.5
Test procedure	:	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024
Test voltage	:	DC 3.3V
Test modes applied	:	A
Kind of test site	:	3m Anechoic Chamber

## Note:

1. All the test modes were applied, only the worst case were shown in this report.
2. For the frequency range from 18GHz to 25GHz, no emission was found.

**Figure 16: Radiated Spurious Emission, 1-DH5, 2402MHz**


**Limit and Margin**  
**QP**

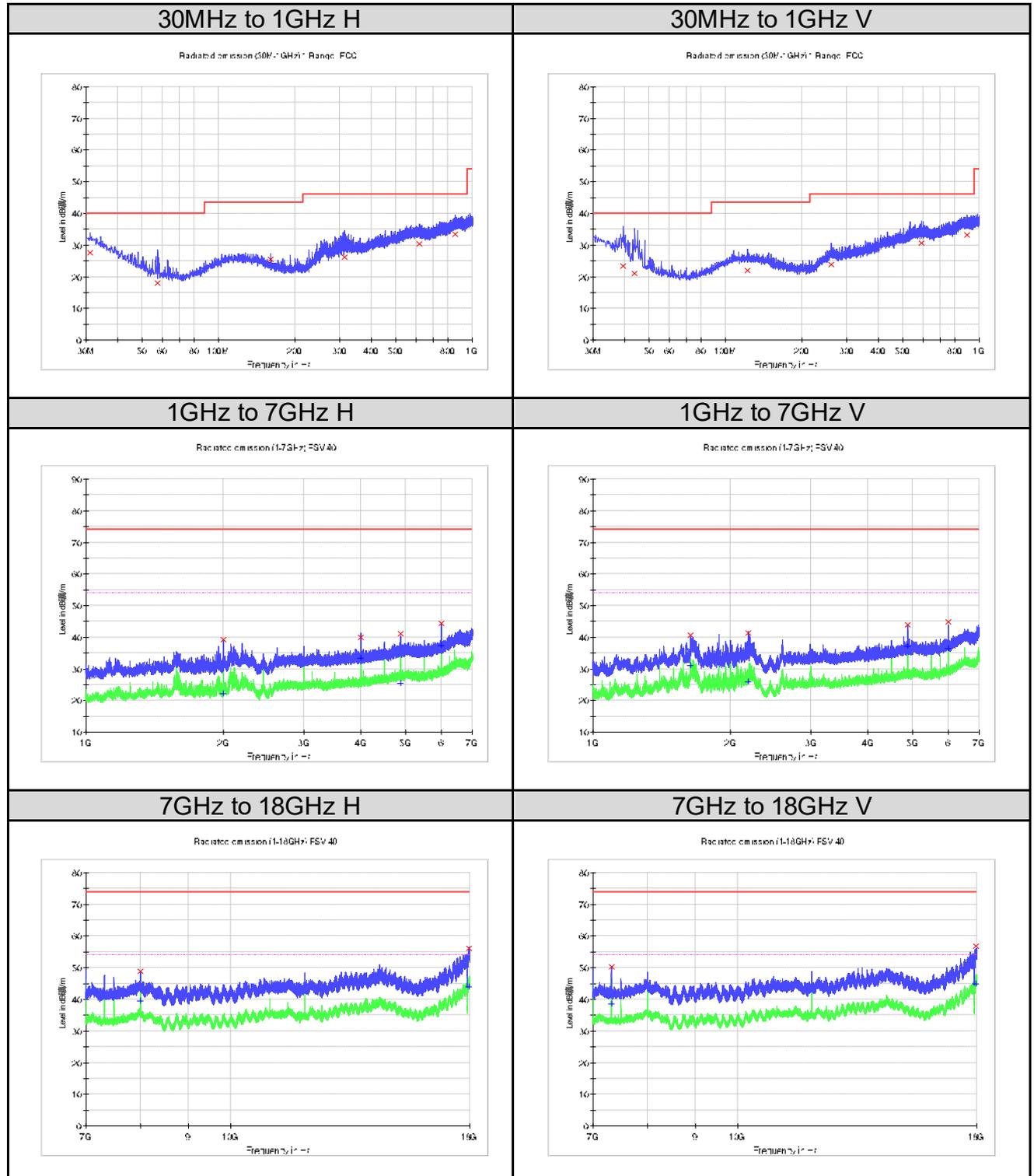
Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
31.091250	27.6	H	24.3	12.4	40.0
44.065000	21.7	H	17.6	18.4	40.0
61.767500	17.4	H	12.8	22.6	40.0
311.300000	25.2	H	20.6	20.8	46.0
596.480000	30.7	H	26.9	15.3	46.0
905.303750	33.4	H	28.9	12.6	46.0
33.031250	26.7	V	23.4	13.4	40.0
38.730000	23.8	V	20.5	16.3	40.0
43.095000	21.4	V	18.1	18.6	40.0
460.437500	27.8	V	24.5	18.2	46.0
656.377500	29.9	V	26.3	16.1	46.0
899.483750	33.3	V	28.8	12.7	46.0

**PK**

Frequency (MHz)	MaxPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
1573.818182	35.6	H	-18.9	38.4	74.0
2245.818182	38.4	H	-15.6	35.6	74.0
4803.727273	40.5	H	-11.4	33.5	74.0
6000.181818	44.8	H	-10.7	29.2	74.0
7205.906250	45.9	H	-6.1	28.1	74.0
17991.406250	56.9	H	12.2	17.2	74.0
1635.454546	40.0	V	-19.0	34.0	74.0
3186.454546	41.7	V	-14.7	32.3	74.0
4803.727273	45.1	V	-11.4	28.9	74.0
5999.909091	43.1	V	-10.7	30.9	74.0
7205.218750	51.6	V	-6.1	22.4	74.0
17975.250000	57.1	V	11.9	16.9	74.0

**AV**

Frequency (MHz)	Average (dBµV/m)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
1573.818182	23.1	H	-18.9	30.9	54.0
2245.818182	22.8	H	-15.6	31.3	54.0
4803.727273	28.9	H	-11.4	25.1	54.0
6000.181818	38.1	H	-10.7	15.9	54.0
7205.906250	31.7	H	-6.1	22.3	54.0
17991.406250	44.2	H	12.2	9.8	54.0
1635.454546	28.3	V	-19.0	25.7	54.0
3186.454546	24.7	V	-14.7	29.3	54.0
4803.727273	34.9	V	-11.4	19.1	54.0
5999.909091	34.8	V	-10.7	19.2	54.0
7205.218750	34.0	V	-6.1	20.0	54.0
17975.250000	44.6	V	11.9	9.4	54.0

**Figure 17: Radiated Spurious Emission, 1-DH5, 2441MHz**


**Limit and Margin**  
**QP**

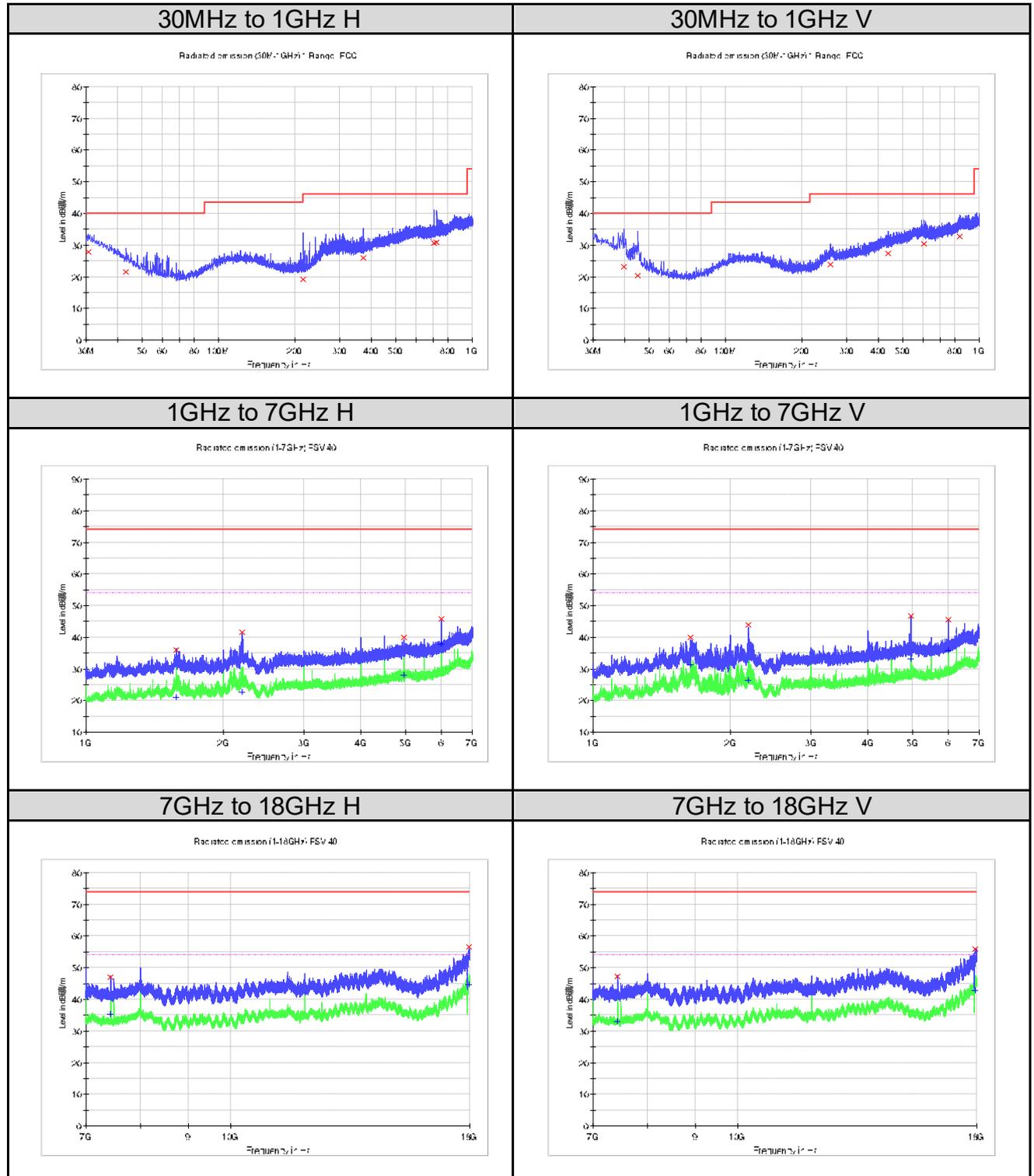
Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
31.212500	27.6	H	24.3	12.4	40.0
57.645000	18.1	H	13.2	21.9	40.0
159.980000	25.4	H	16.9	18.1	43.5
312.997500	26.2	H	20.7	19.8	46.0
620.366250	30.4	H	26.9	15.6	46.0
853.408750	33.4	H	29.0	12.6	46.0
39.457500	23.4	V	20.1	16.6	40.0
43.822500	21.0	V	17.8	19.0	40.0
121.786250	21.9	V	18.8	21.6	43.5
261.345000	24.0	V	20.9	22.0	46.0
592.963750	30.7	V	26.8	15.3	46.0
895.603750	33.3	V	28.8	12.7	46.0

**PK**

Frequency (MHz)	MaxPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
2000.363636	39.2	H	-17.7	34.8	74.0
4000.000000	40.0	H	-13.4	34.0	74.0
4882.545455	41.0	H	-11.3	33.0	74.0
6000.181818	44.4	H	-10.7	29.6	74.0
7999.968750	48.9	H	-3.5	25.1	74.0
17964.937500	56.1	H	11.8	17.9	74.0
1637.636364	40.6	V	-19.0	33.4	74.0
2190.181818	41.2	V	-15.8	32.8	74.0
4881.727273	44.0	V	-11.3	30.0	74.0
5999.909091	44.8	V	-10.7	29.2	74.0
7322.437500	50.4	V	-6.6	23.6	74.0
17979.718750	56.7	V	12.0	17.3	74.0

**AV**

Frequency (MHz)	Average (dBµV/m)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
2000.363636	22.2	H	-17.7	31.8	54.0
4000.000000	33.3	H	-13.4	20.7	54.0
4882.545455	25.5	H	-11.3	28.5	54.0
6000.181818	37.3	H	-10.7	16.7	54.0
7999.968750	39.5	H	-3.5	14.5	54.0
17964.937500	43.9	H	11.8	10.1	54.0
1637.636364	31.1	V	-19.0	22.9	54.0
2190.181818	26.0	V	-15.8	28.0	54.0
4881.727273	37.2	V	-11.3	16.8	54.0
5999.909091	36.5	V	-10.7	17.5	54.0
7322.437500	38.6	V	-6.6	15.4	54.0
17979.718750	44.9	V	12.0	9.1	54.0

**Figure 18: Radiated Spurious Emission, 1-DH5, 2480MHz**


**Limit and Margin**  
**QP**

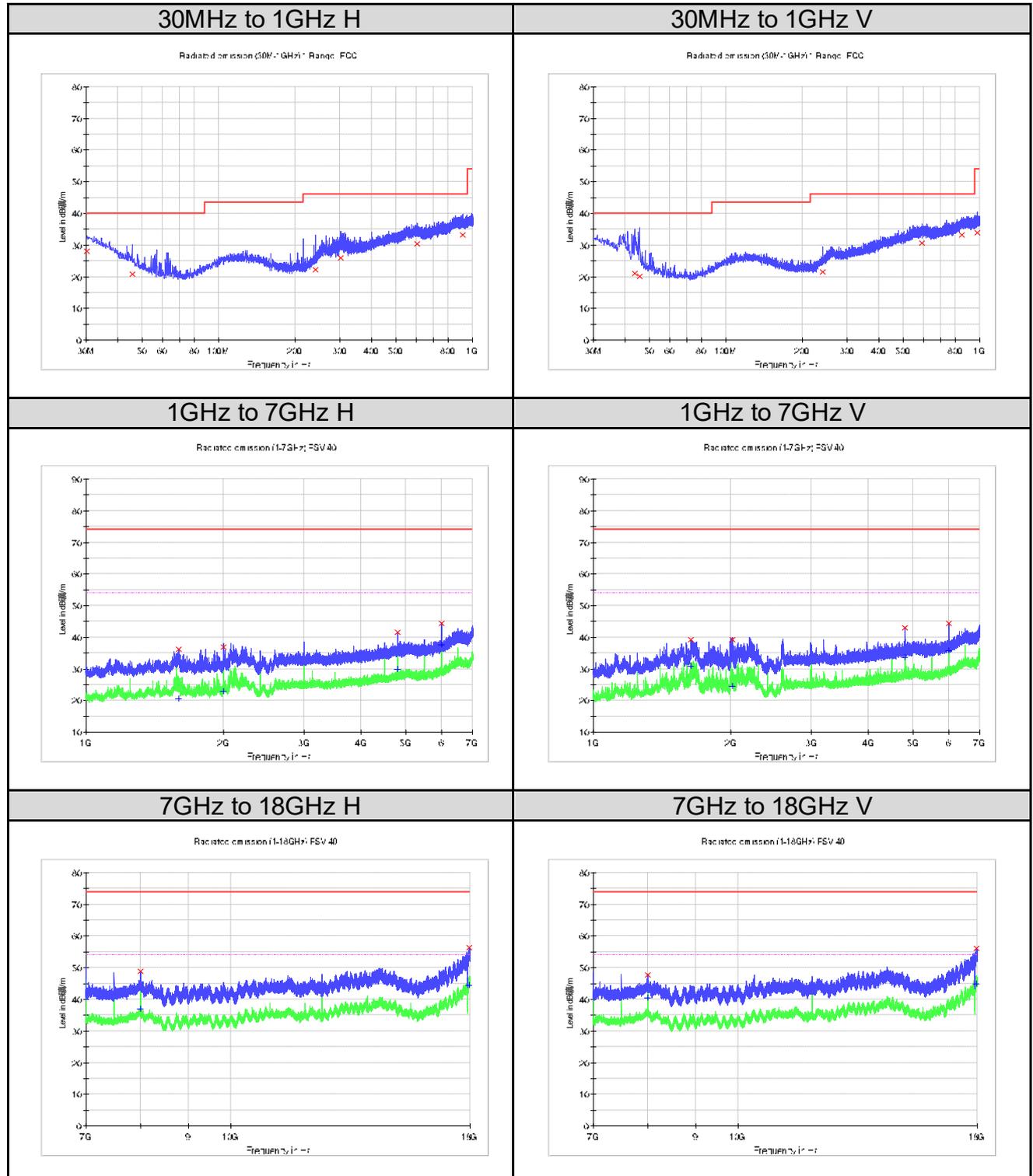
Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
30.727500	27.8	H	24.5	12.2	40.0
43.216250	21.5	H	18.1	18.5	40.0
215.997500	19.3	H	16.0	24.2	43.5
372.046250	25.9	H	22.1	20.1	46.0
709.000000	30.6	H	26.9	15.5	46.0
725.126250	31.0	H	27.3	15.0	46.0
39.700000	23.2	V	19.9	16.8	40.0
45.035000	20.4	V	17.1	19.6	40.0
259.162500	23.8	V	20.7	22.2	46.0
438.370000	27.3	V	24.1	18.7	46.0
606.058750	30.5	V	27.0	15.5	46.0
837.403750	32.8	V	28.7	13.2	46.0

**PK**

Frequency (MHz)	MaxPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
1576.000000	36.1	H	-18.9	37.9	74.0
2194.818182	41.5	H	-15.8	32.5	74.0
4959.727273	39.9	H	-11.2	34.2	74.0
6000.181818	45.9	H	-10.7	28.1	74.0
7440.000000	47.1	H	-6.0	27.0	74.0
17981.781250	56.6	H	12.1	17.4	74.0
1637.636364	40.0	V	-19.0	34.1	74.0
2186.636364	43.9	V	-15.9	30.1	74.0
4960.272727	46.7	V	-11.1	27.3	74.0
5999.909091	45.7	V	-10.7	28.3	74.0
7440.343750	47.3	V	-6.0	26.7	74.0
17938.812500	55.9	V	11.3	18.1	74.0

**AV**

Frequency (MHz)	Average (dBµV/m)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
1576.000000	21.1	H	-18.9	32.9	54.0
2194.818182	22.6	H	-15.8	31.4	54.0
4959.727273	28.0	H	-11.2	26.1	54.0
6000.181818	37.9	H	-10.7	16.1	54.0
7440.000000	35.4	H	-6.0	18.6	54.0
17981.781250	44.8	H	12.1	9.3	54.0
1637.636364	31.2	V	-19.0	22.8	54.0
2186.636364	26.4	V	-15.9	27.6	54.0
4960.272727	33.1	V	-11.1	20.9	54.0
5999.909091	35.7	V	-10.7	18.3	54.0
7440.343750	32.9	V	-6.0	21.1	54.0
17938.812500	42.7	V	11.3	11.3	54.0

**Figure 19: Radiated Spurious Emission, 3-DH5, 2402MHz**


**Limit and Margin**  
**QP**

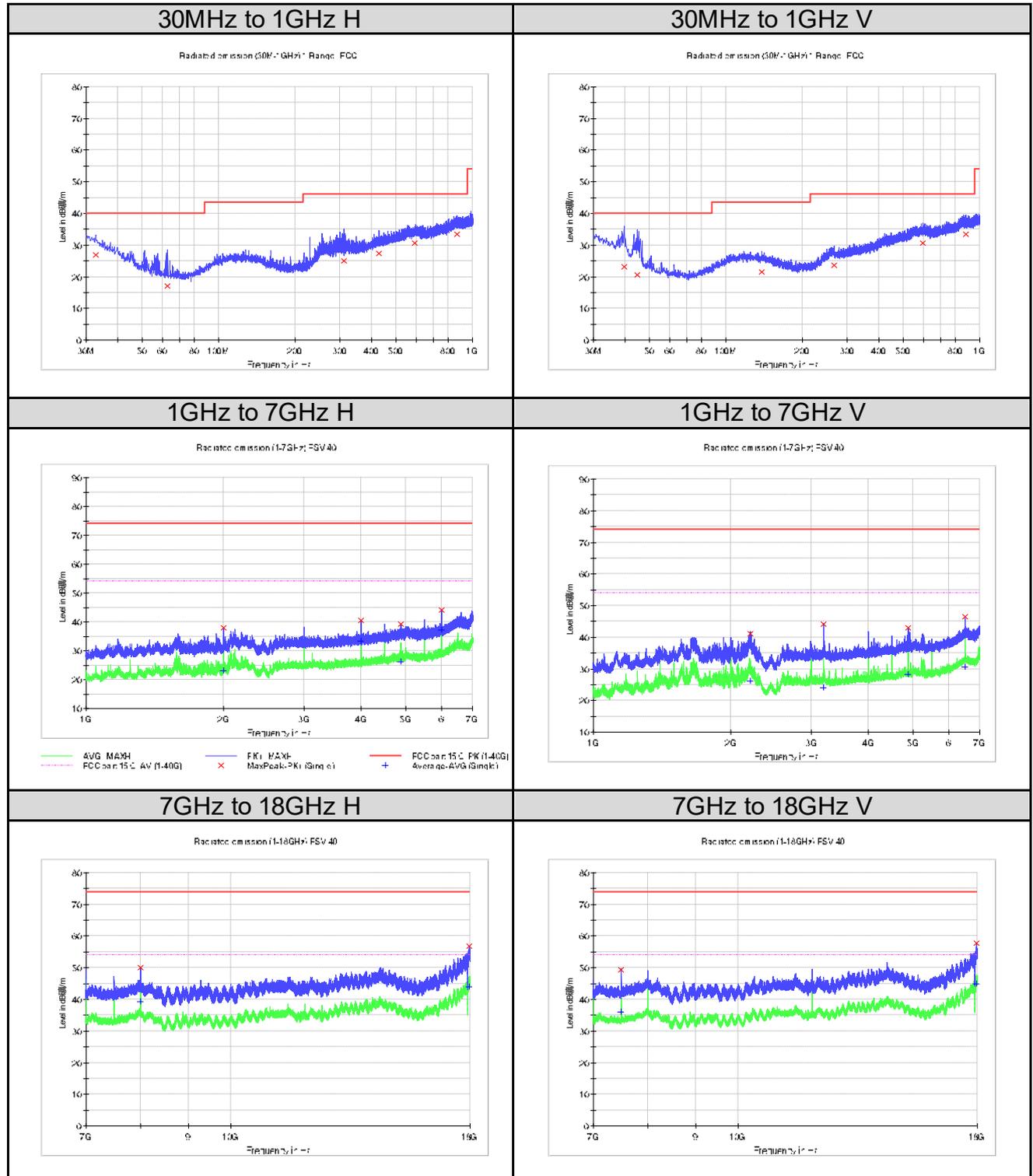
Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dB $\mu$ V/m)
30.242500	28.0	H	24.7	12.0	40.0
45.641250	20.9	H	16.9	19.1	40.0
240.005000	22.3	H	18.4	23.7	46.0
302.448750	25.9	H	20.3	20.2	46.0
604.846250	30.5	H	27.0	15.5	46.0
912.942500	33.2	H	28.8	12.8	46.0
43.580000	21.1	V	17.9	18.9	40.0
45.641250	20.1	V	16.9	19.9	40.0
240.005000	21.5	V	18.4	24.5	46.0
591.508750	30.7	V	26.8	15.3	46.0
852.681250	33.3	V	29.0	12.7	46.0
979.266250	34.0	V	29.8	20.0	54.0

**PK**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dB $\mu$ V/m)
1592.909091	36.1	H	-18.9	37.9	74.0
1999.818182	37.0	H	-17.8	37.0	74.0
4804.000000	41.7	H	-11.4	32.3	74.0
6000.181818	44.4	H	-10.7	29.6	74.0
7999.625000	48.8	H	-3.5	25.2	74.0
17960.812500	56.4	H	11.7	17.6	74.0
1637.636364	39.2	V	-19.0	34.8	74.0
2015.090909	39.2	V	-17.7	34.8	74.0
4804.000000	43.0	V	-11.4	31.0	74.0
6000.181818	44.3	V	-10.7	29.7	74.0
8000.312500	47.8	V	-3.5	26.2	74.0
17973.187500	56.1	V	11.9	17.9	74.0

**AV**

Frequency (MHz)	Average (dB $\mu$ V/m)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dB $\mu$ V/m)
1592.909091	20.5	H	-18.9	33.5	54.0
1999.818182	22.8	H	-17.8	31.3	54.0
4804.000000	29.9	H	-11.4	24.1	54.0
6000.181818	37.7	H	-10.7	16.3	54.0
7999.625000	37.0	H	-3.5	17.1	54.0
17960.812500	44.4	H	11.7	9.6	54.0
1637.636364	30.9	V	-19.0	23.1	54.0
2015.090909	24.6	V	-17.7	29.4	54.0
4804.000000	33.7	V	-11.4	20.3	54.0
6000.181818	35.8	V	-10.7	18.2	54.0
8000.312500	40.5	V	-3.5	13.5	54.0
17973.187500	44.8	V	11.9	9.2	54.0

**Figure 20: Radiated Spurious Emission, 3-DH5, 2441MHz**


**Limit and Margin**  
**QP**

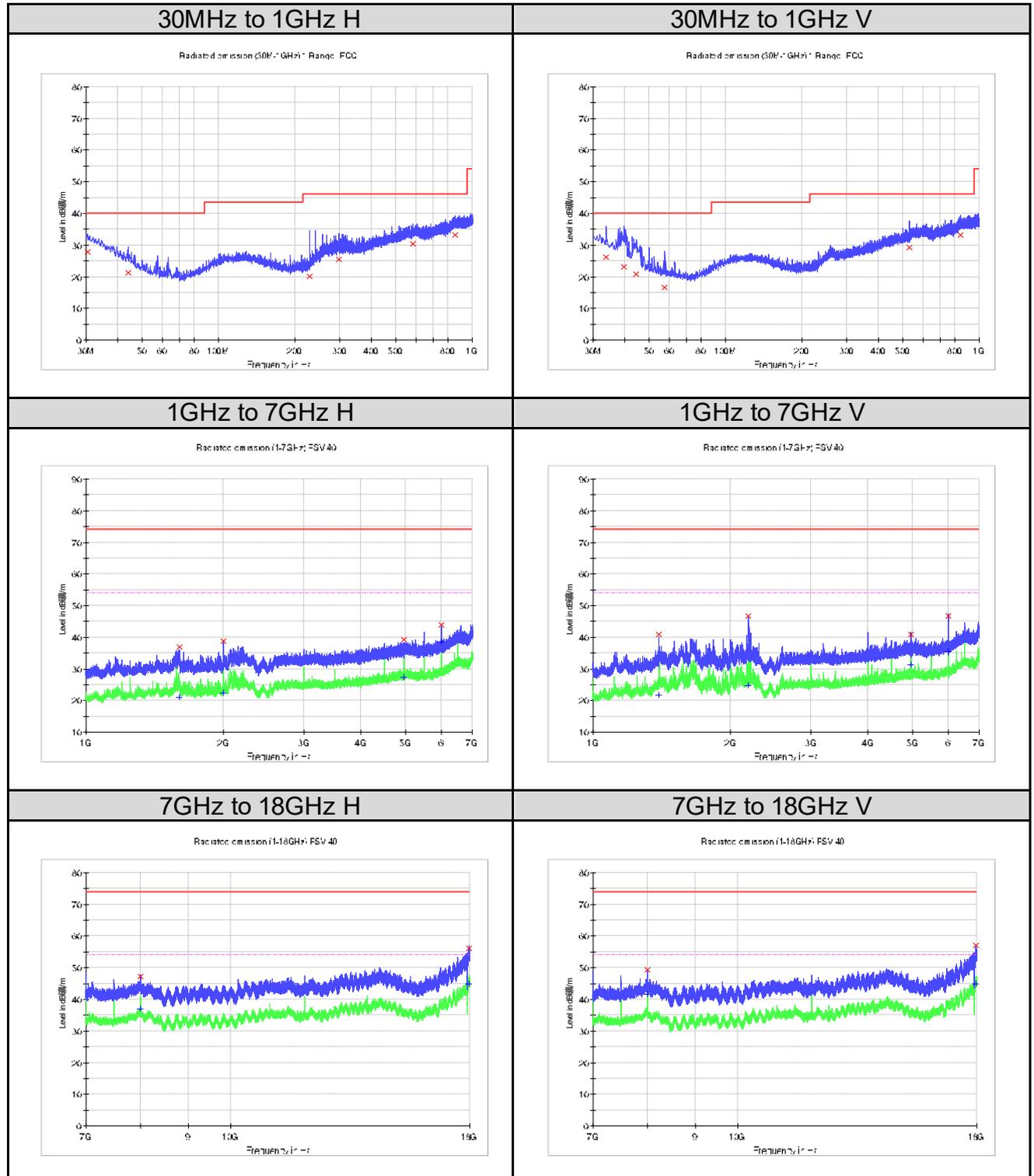
Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
32.667500	26.9	H	23.6	13.1	40.0
62.980000	17.1	H	12.7	22.9	40.0
310.815000	25.1	H	20.6	20.9	46.0
426.487500	27.3	H	24.0	18.7	46.0
593.933750	30.7	H	26.8	15.3	46.0
871.838750	33.4	H	28.7	12.7	46.0
39.578750	23.2	V	20.0	16.8	40.0
44.671250	20.6	V	17.3	19.4	40.0
138.397500	21.4	V	18.3	22.1	43.5
267.043750	23.6	V	20.5	22.5	46.0
594.661250	30.7	V	26.8	15.3	46.0
880.690000	33.3	V	28.7	12.7	46.0

**PK**

Frequency (MHz)	MaxPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
2000.090909	38.0	H	-17.7	36.0	74.0
4000.000000	40.5	H	-13.4	33.5	74.0
4882.000000	39.3	H	-11.3	34.7	74.0
6000.181818	44.2	H	-10.7	29.8	74.0
7999.968750	50.0	H	-3.5	24.0	74.0
17962.875000	56.8	H	11.7	17.2	74.0
2205.454546	41.1	V	-15.8	32.9	74.0
3190.000000	44.3	V	-14.7	29.8	74.0
4879.818182	42.9	V	-11.3	31.1	74.0
6500.636364	46.4	V	-7.6	27.6	74.0
7500.156250	49.4	V	-5.9	24.6	74.0
17974.562500	57.8	V	11.9	16.2	74.0

**AV**

Frequency (MHz)	Average (dBµV/m)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
2000.090909	23.1	H	-17.7	30.9	54.0
4000.000000	33.4	H	-13.4	20.6	54.0
4882.000000	26.2	H	-11.3	27.9	54.0
6000.181818	37.2	H	-10.7	16.8	54.0
7999.968750	39.3	H	-3.5	14.7	54.0
17962.875000	44.1	H	11.7	9.9	54.0
2205.454546	26.2	V	-15.8	27.8	54.0
3190.000000	24.0	V	-14.7	30.0	54.0
4879.818182	28.2	V	-11.3	25.8	54.0
6500.636364	30.7	V	-7.6	23.3	54.0
7500.156250	36.1	V	-5.9	17.9	54.0
17974.562500	44.9	V	11.9	9.1	54.0

**Figure 21: Radiated Spurious Emission, 3-DH5, 2480MHz**


**Limit and Margin**  
**QP**

Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
30.363750	27.9	H	24.6	12.1	40.0
44.065000	21.4	H	17.6	18.6	40.0
228.122500	20.1	H	16.9	25.9	46.0
298.932500	25.6	H	20.2	20.4	46.0
584.112500	30.3	H	26.6	15.7	46.0
853.893750	33.3	H	29.0	12.7	46.0
33.880000	26.2	V	23.0	13.8	40.0
39.700000	23.1	V	19.9	16.9	40.0
44.428750	20.7	V	17.4	19.3	40.0
57.645000	16.6	V	13.2	23.4	40.0
531.368750	29.3	V	25.8	16.7	46.0
845.770000	33.2	V	28.9	12.8	46.0

**PK**

Frequency (MHz)	MaxPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
1602.181818	36.9	H	-18.9	37.1	74.0
1999.818182	38.7	H	-17.8	35.3	74.0
4959.727273	39.2	H	-11.2	34.8	74.0
5999.909091	43.9	H	-10.7	30.1	74.0
7999.625000	47.3	H	-3.5	26.7	74.0
17973.875000	56.2	H	11.9	17.8	74.0
1396.000000	40.8	V	-18.7	33.2	74.0
2191.000000	46.8	V	-15.8	27.2	74.0
4959.727273	40.9	V	-11.2	33.1	74.0
6000.181818	46.7	V	-10.7	27.4	74.0
7999.968750	49.5	V	-3.5	24.5	74.0
17978.000000	57.1	V	12.0	16.9	74.0

**AV**

Frequency (MHz)	Average (dBµV/m)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
1602.181818	20.9	H	-18.9	33.1	54.0
1999.818182	22.5	H	-17.8	31.5	54.0
4959.727273	27.4	H	-11.2	26.6	54.0
5999.909091	38.4	H	-10.7	15.6	54.0
7999.625000	36.9	H	-3.5	17.1	54.0
17973.875000	44.9	H	11.9	9.1	54.0
1396.000000	21.6	V	-18.7	32.4	54.0
2191.000000	24.8	V	-15.8	29.3	54.0
4959.727273	31.3	V	-11.2	22.7	54.0
6000.181818	35.5	V	-10.7	18.5	54.0
7999.968750	41.5	V	-3.5	12.5	54.0
17978.000000	45.0	V	12.0	9.0	54.0

## 6. List of Tables

Table 1: List of Test and Measurement Equipment.....	7
Table 2: Measurement Uncertainty.....	8
Table 3: Technical Specification of EUT.....	9
Table 4: RF Channel List.....	10
Table 5: Power parameter value.....	11
Table 6: Special Accessories.....	11
Table 7: Auxiliary Equipment.....	11
Table 8: Antenna Requirement.....	13
Table 9: Peak Output Power.....	27
Table 10: Time of Occupancy.....	42

## 7. List of Figures

Figure 1: Dwell Time.....	43
Figure 2: Number of Hops.....	45
Figure 3: Reference Level.....	48
Figure 4: Conducted Band Edge.....	50
Figure 5: Conducted Spurious Emission.....	52
Figure 6: Conducted Emission, L.....	55
Figure 7: Conducted Emission, N.....	56
Figure 8: Radiated Band-Edge, 1-DH5, 2402, H.....	59
Figure 9: Radiated Band-Edge, 1-DH5, 2402, V.....	59
Figure 10: Radiated Band-Edge, 1-DH5, 2480, H.....	60
Figure 11: Radiated Band-Edge, 1-DH5, 2480, V.....	60
Figure 12: Radiated Band-Edge, 3-DH5, 2402, H.....	61
Figure 13: Radiated Band-Edge, 3-DH5, 2402, V.....	61
Figure 14: Radiated Band-Edge, 3-DH5, 2480, H.....	62
Figure 15: Radiated Band-Edge, 3-DH5, 2480, V.....	62
Figure 16: Radiated Spurious Emission, 1-DH5, 2402MHz.....	64
Figure 17: Radiated Spurious Emission, 1-DH5, 2441MHz.....	66
Figure 18: Radiated Spurious Emission, 1-DH5, 2480MHz.....	68
Figure 19: Radiated Spurious Emission, 3-DH5, 2402MHz.....	70
Figure 20: Radiated Spurious Emission, 3-DH5, 2441MHz.....	72
Figure 21: Radiated Spurious Emission, 3-DH5, 2480MHz.....	74