Prüfbericht-Nr.: *Test report no.:*	**CN2413N0 001**	**Auftrags-Nr.:** *Order no.:*	326049917	Seite 1 von 73 *Page 1 of 73*
Kunden-Referenz-Nr.: *Client reference no.:*	1288983	**Auftragsdatum:** *Order date:*	2024-09-02	
Auftraggeber: *Client:*	**IKEA of Sweden AB** Box 702, Almhult, Sweden			
Prüfgegenstand: *Test item:*	BLOMPRAKT			
Bezeichnung / Typ-Nr.: *Identification / Type no.:*	E2503			
Auftrags-Inhalt: *Order content:*	Test Report			
Prüfgrundlage: *Test specification:*	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: 2013			
Wareneingangsdatum: *Date of sample receipt:*	2024-09-26	Refer to photo document.		
Prüfmuster-Nr.: *Test sample no:*	A003826921-001~002			
Prüfzeitraum: *Testing period:*	Refer to test report			
Ort der Prüfung: *Place of testing:*	TÜV Rheinland (Shanghai) Co., Ltd.			
Prüflaboratorium: *Testing laboratory:*	TÜV Rheinland (Shanghai) Co., Ltd.			
Prüfergebnis*: *Test result*:*	Pass			
geprüft von: tested by:	x Hongfei Wu	**genehmigt von:** authorized by:	x Elliot Zhang	
Datum: *Date:* 2025-04-17	Signed by: Hongfei Wu	**Datum:** *Date:* 2025-04-17	Signed by: Elliot Zhang	
Stellung / *Position:*	Sachverständige(r)/Expert	**Stellung** / *Position:*	Sachverständige(r)/Expert	
Sonstiges / *Other:*	FCC ID: FHO-E2503 IC: 10912A-E2503 HVIN: E2503 PMN: BLOMPRAKT			
Zustand des Prüfgegenstandes bei Anlieferung: *Condition of the test item at delivery:*	Prüfmuster vollständig und unbeschädigt *Test item complete and undamaged*			

* 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*

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.
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.

Anmerkungen
Remarks

1	Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben. Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden. *The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system.* *Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.*
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4	Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnisen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, 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. *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 115:2021, 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.*

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*

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1. General Remarks

1.1 Complementary Materials

Null.

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

Equip.	Description	Model	Manufacturer	Due Date DD.MM.YYYY
G1811378	3m semi-anechoic chamber	SAC3	Frankonia	03.12.2028
G1811425	Bilog antenna	CBL 6112D	Teseq	20.04.2026
G1825371	Preamplifier	EMC051845SE	Taiwan EMCI	24.07.2025
G1825372	Preamplifier	EMC184045SE	Taiwan EMCI	24.07.2025
9059157	Double ridged broadband horn antenna	BBHA 9120 D	Schwarzbeck	28.02.2026
G1831065	Broadband horn antenna	BBHA 9170	Schwarzbeck	18.06.2028
G1822702	Spectrum analyser	FSV40	Rohde&Schwarz	15.07.2025
9053474	Signal generator	SMB100B (6 GHz)	Rohde & Schwarz	10.12.2025
9053476	Vector Signal generator	SMW200A	Rohde & Schwarz	10.12.2025
9053477	OSP	OSP-B157W8	Rohde & Schwarz	10.12.2025
9047770	Wireless connectivity tester	CMW270	Rohde & Schwarz	23.08.2025
G1811391	EMI test receiver	ESCI	Rohde&Schwarz	27.10.2025
9061503	Shielded enclosure	10.055x3.605x3.000	Frankonia	08.11.2028
9023229	EMI test receiver	ESR3	Rohde&Schwarz	03.08.2025
G1830003	Artificial mains network	ENV432	Rohde&Schwarz	11.10.2025
G1824248	Dual display multimeter	F45	Fluke	28.06.2025
software				
	EMC measurement software	EMC32 (Ver 10.20.01)	Rohde&Schwarz	NA
	EMC measurement software	EMC32 (Ver 11.40.00)	Rohde&Schwarz	NA
	EMI measurement software	EMC32-E+(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 basics 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	±3.39dB
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:	BLOMPRAKT
Model No.:	E2503
Operation Voltage:	AC 100~240V, 50-60Hz
RF Technical:	1) Bluetooth Classic 2) 2.4 GHz proprietary
Technical Specification of Bluetooth Classic	
Frequency Range:	2402~2480MHz
Modulation Type:	GFSK, π/4 DQPSK, 8DPSK
Antenna Type:	PCB Antenna
Antenna Gain:	1.5 dBi (declared by client)

Table 4: RF Channel List

RF Channel	Frequency [MHz]	RF Channel	Frequency [MHz]	RF Channel	Frequency [MHz]	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. On, Bluetooth Classic transmitting mode
B. Off

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: 2013.
Test Software: Telink BDT, V5.7.4

Table 5: Power parameter value

Mode	Power Parameter Setting Value
BR	9.53
EDR	-1.05

4.3 Special Accessories and Auxiliary Equipment

Table 6: Auxiliary Equipment

Equipment	Manufacturer	Model Name
Laptop	Lenovo	21AJ-S57N0J

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 7: 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

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	:	2024-10-24, 2025-04-15
Ambient temperature	:	22.8, 23.6°C
Relative humidity	:	53.2, 59.3%
Atmospheric pressure	:	101kPa
Test requirement	:	FCC Part 15.247(a)(1) RSS-247 Issue 3, August 2023, Clause 5.1(a)
Test procedure	:	ANSI C63.10: 2013
Test voltage	:	AC 120V, 60Hz
Test modes applied	:	A

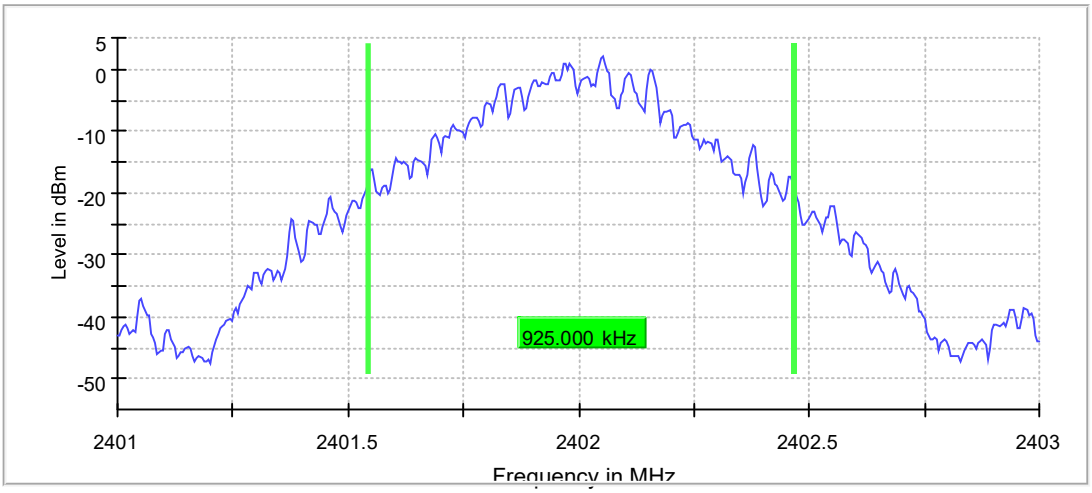
Emission Bandwidth 20 dB (1-DH5, 2402 MHz)

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	2.0	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	0.11 dB	0.50 dB

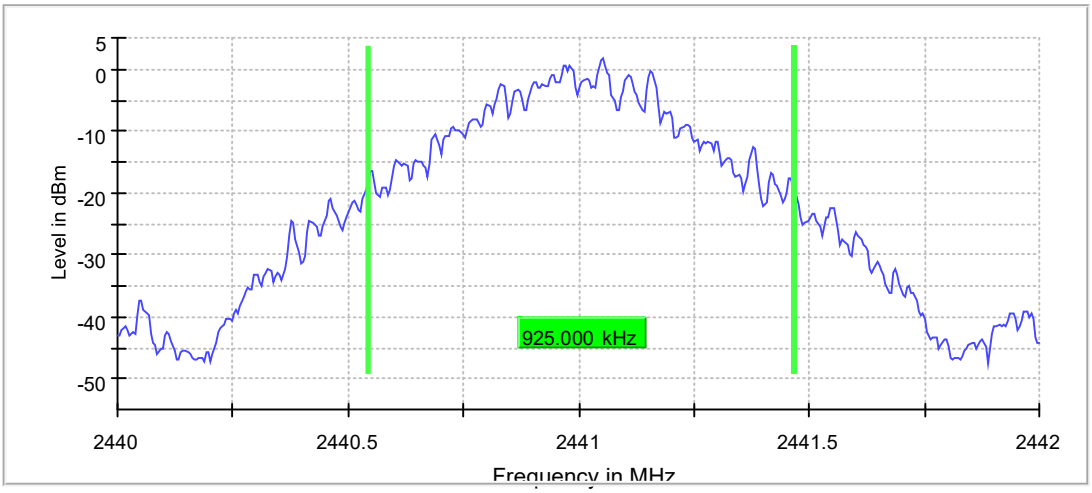
Emission Bandwidth 20 dB (1-DH5, 2441 MHz)

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	1.7	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	12 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.03 dB	0.50 dB

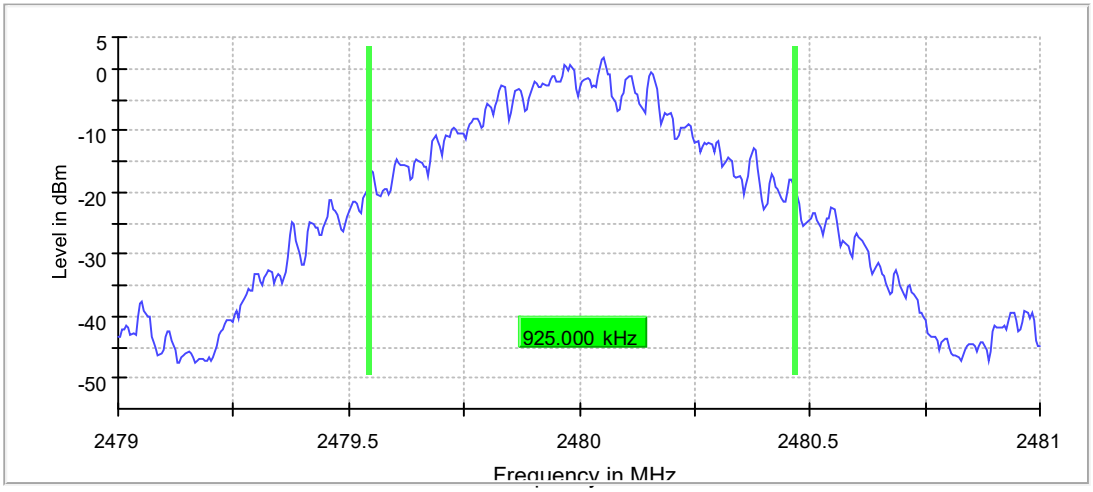
Emission Bandwidth 20 dB (1-DH5, 2480 MHz)

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	1.6	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	9 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.07 dB	0.50 dB

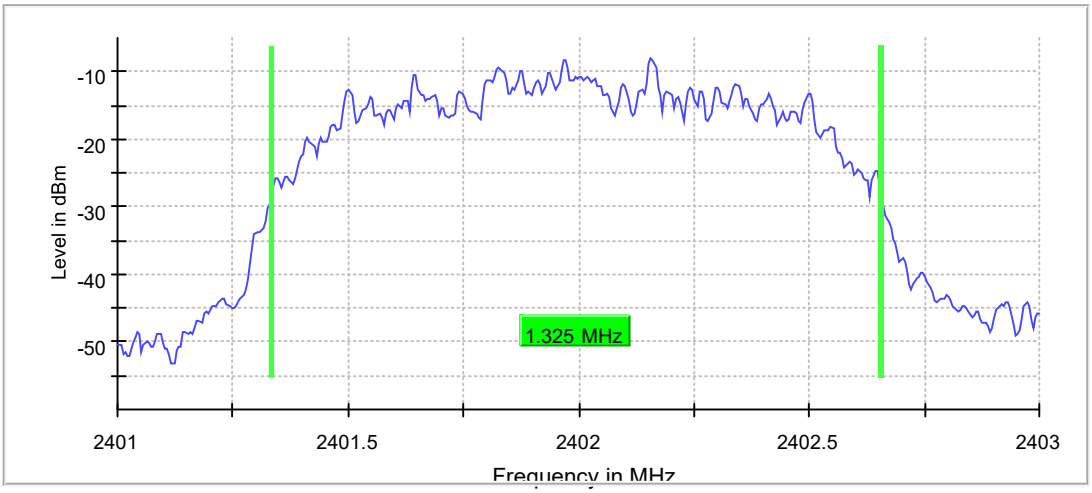
Emission Bandwidth 20 dB (2-DH5, 2402 MHz)

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	1.325000	---	---	2401.332500	2402.657500

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

DUT Frequency (MHz)	Max Level (dBm)	Result
2402.000000	-8.1	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	8 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.13 dB	0.50 dB

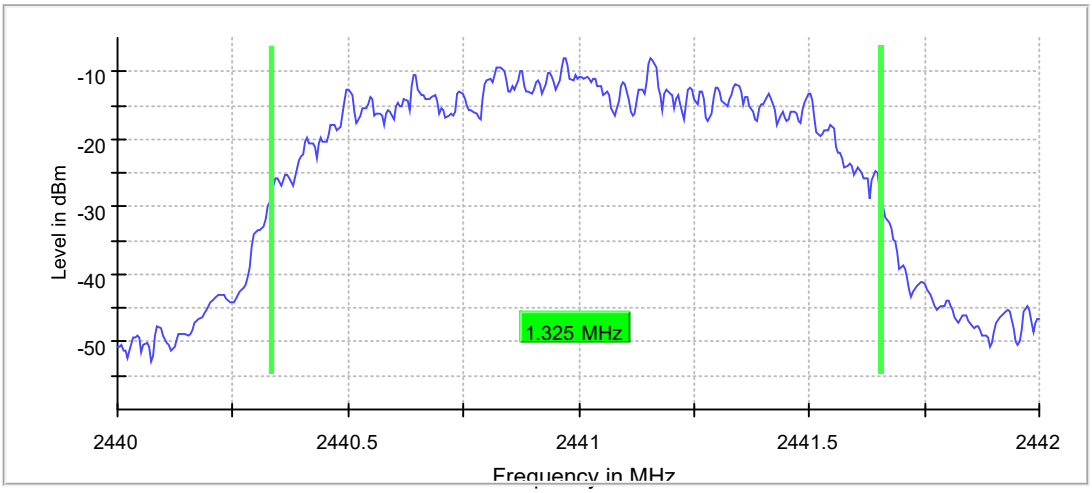
Emission Bandwidth 20 dB (2-DH5, 2441 MHz)

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2441.000000	1.325000	---	---	2440.332500	2441.657500

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

DUT Frequency (MHz)	Max Level (dBm)	Result
2441.000000	-8.0	PASS

20 dB Bandwidth



Measurement

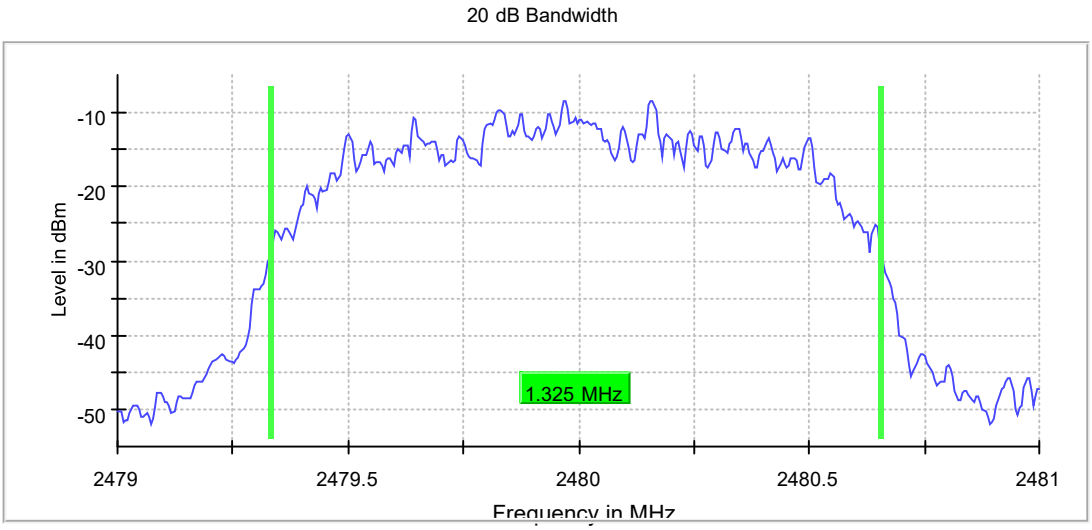
Setting	Instrument Value	Target Value
Start Frequency	2.44000 GHz	2.44000 GHz
Stop Frequency	2.44200 GHz	2.44200 GHz
Span	2.000 MHz	2.000 MHz
RBW	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
Sweeptime	189.648 µs	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 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	8 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.14 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	---	---	2479.332500	2480.657500

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

DUT Frequency (MHz)	Max Level (dBm)	Result
2480.000000	-8.4	PASS



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	9 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.18 dB	0.50 dB

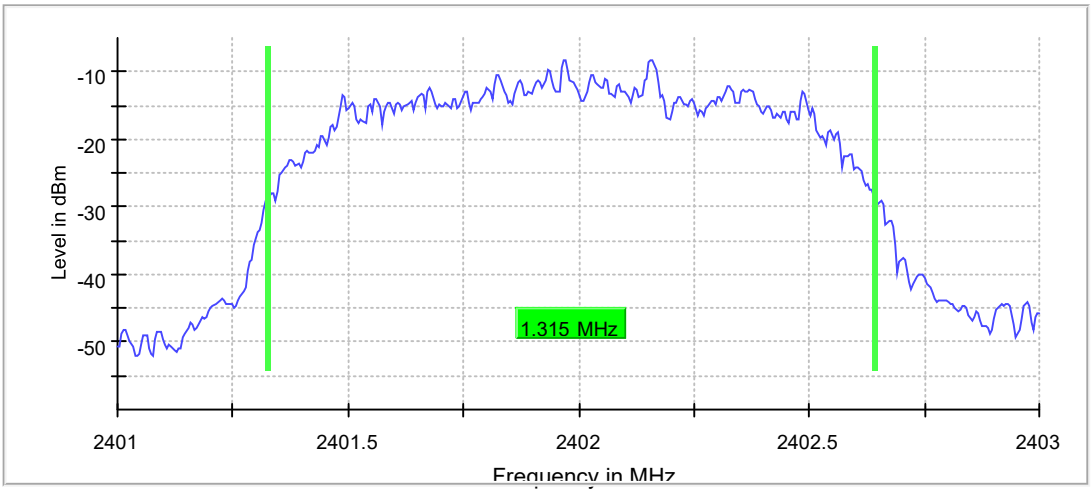
Emission Bandwidth 20 dB (3-DH5, 2402 MHz)

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	1.315000	---	---	2401.327500	2402.642500

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

DUT Frequency (MHz)	Max Level (dBm)	Result
2402.000000	-8.2	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	9 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.15 dB	0.50 dB

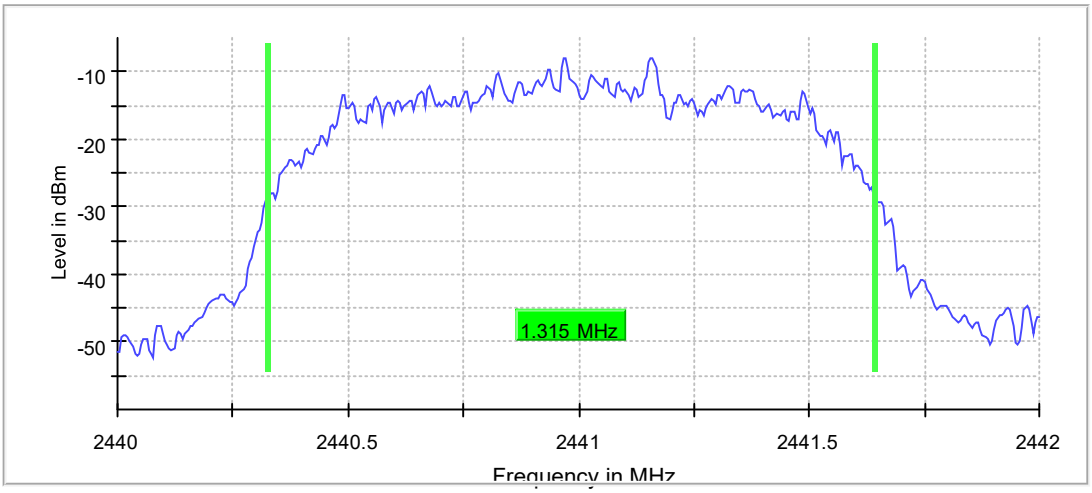
Emission Bandwidth 20 dB (3-DH5, 2441 MHz)

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	-7.9	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	8 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.15 dB	0.50 dB

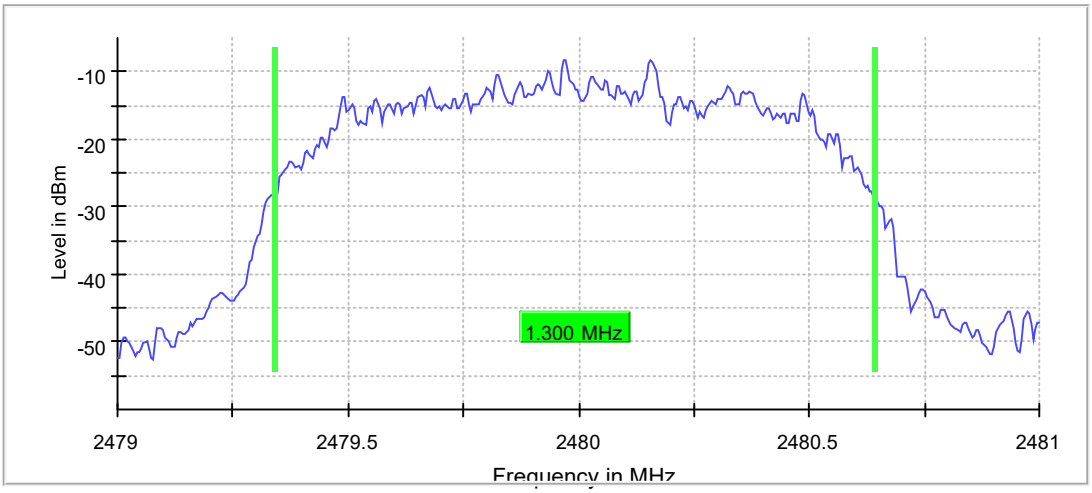
Emission Bandwidth 20 dB (3-DH5, 2480 MHz)

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	1.300000	---	---	2479.342500	2480.642500

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

DUT Frequency (MHz)	Max Level (dBm)	Result
2480.000000	-8.3	PASS

20 dB Bandwidth

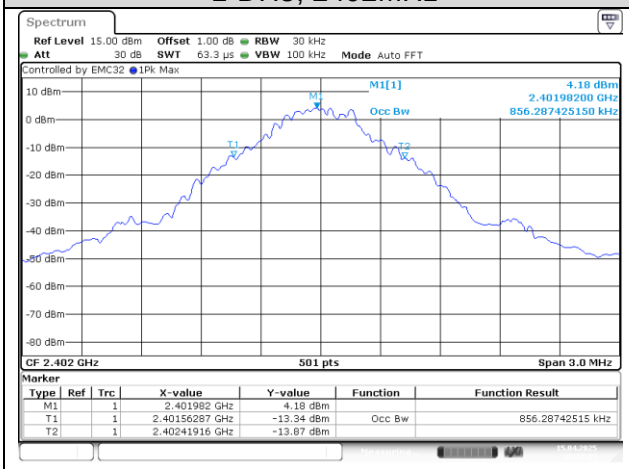


Measurement

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	8 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.15 dB	0.50 dB

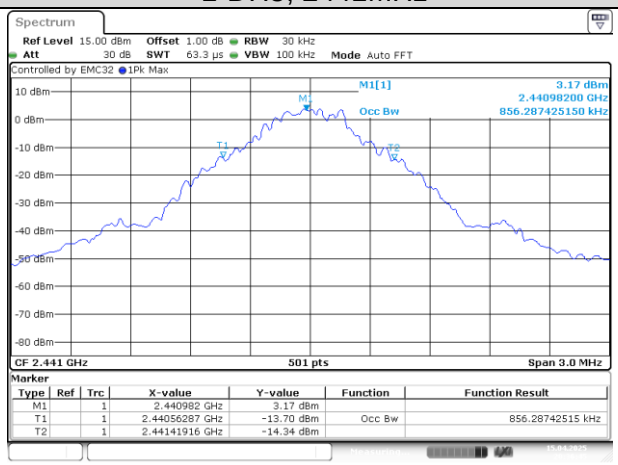
Occupied Channel Bandwidth 99%

1-DH5, 2402MHz



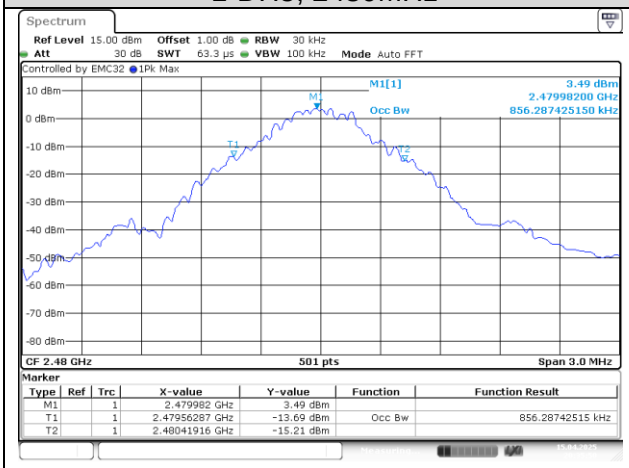
Date: 15.APR.2025 20:37:19

1-DH5, 2441MHz



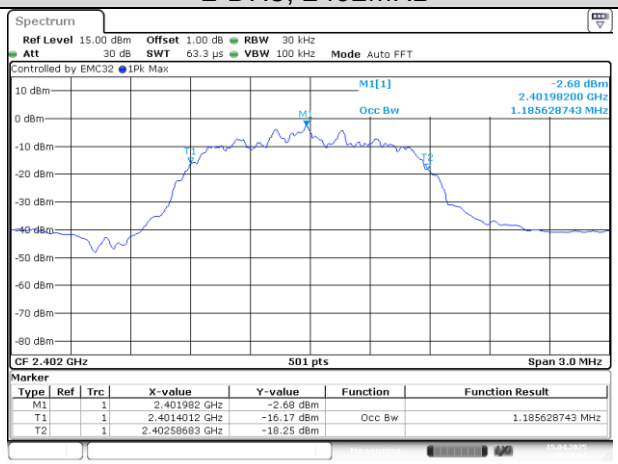
Date: 15.APR.2025 20:36:44

1-DH5, 2480MHz



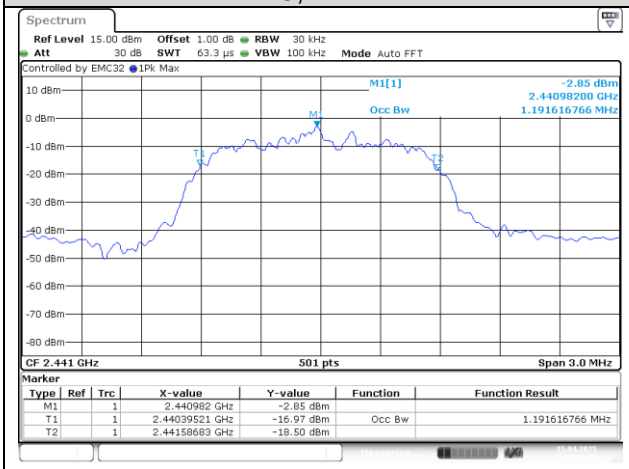
Date: 15.APR.2025 20:35:50

2-DH5, 2402MHz



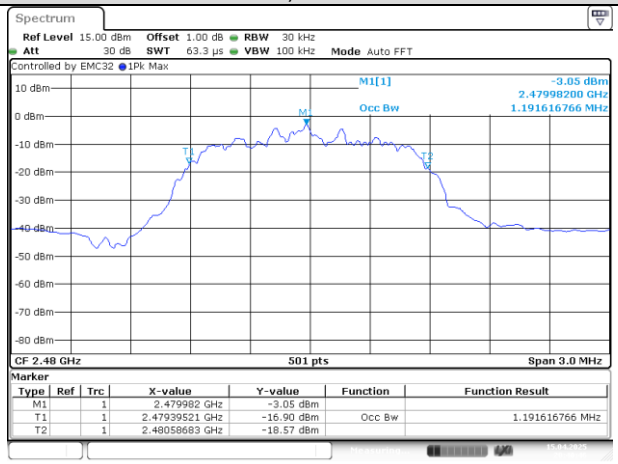
Date: 15.APR.2025 20:39:24

2-DH5, 2441MHz



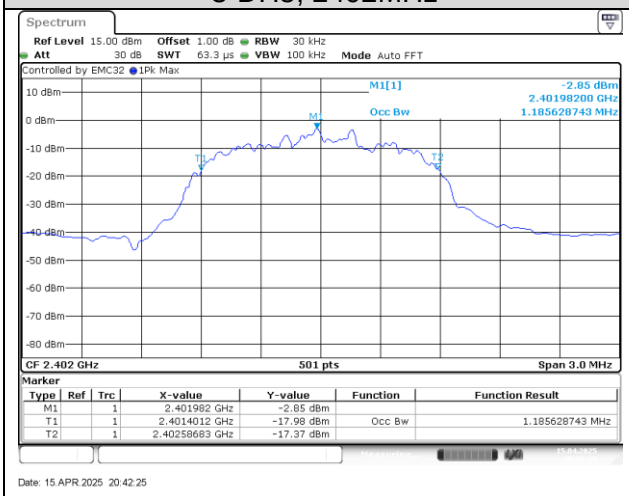
Date: 15.APR.2025 20:40:03

2-DH5, 2480MHz

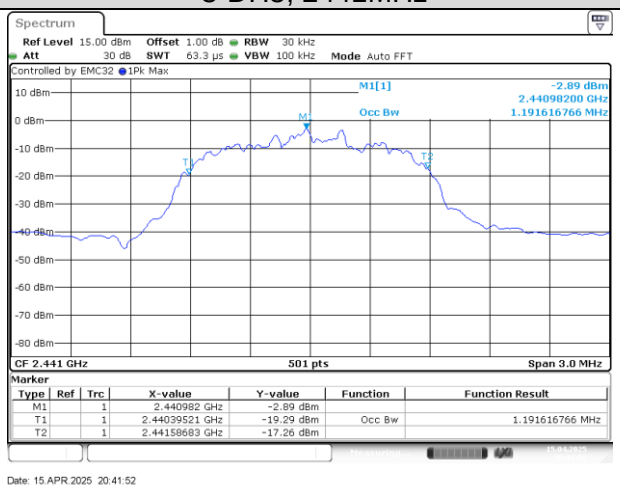


Date: 15.APR.2025 20:40:46

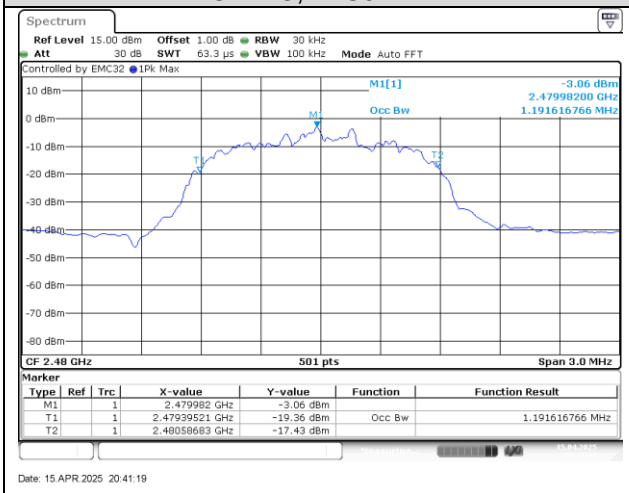
3-DH5, 2402MHz



3-DH5, 2441MHz



3-DH5, 2480MHz



5.1.3 Peak Output Power

RESULT: **Pass**

Date of testing	:	2024-10-24
Ambient temperature	:	22.8°C
Relative humidity	:	53.2%
Atmospheric pressure	:	101kPa
Test requirement	:	FCC Part 15.247(b)(1) RSS-247 Issue 3, August 2023, Clause 5.4(b)
Test procedure	:	ANSI C63.10: 2013
Test voltage	:	AC 120V, 60Hz
Test modes applied	:	A

Table 8: Peak Output Power

Test Mode	Frequency [MHz]	Maximum Peak Conducted Output Power [dBm]	Limit [dBm]
1-DH5	2402	7.9	21
1-DH5	2441	7.6	21
1-DH5	2480	7.5	21
2-DH5	2402	9.6	21
2-DH5	2441	9.6	21
2-DH5	2480	9.2	21
3-DH5	2402	9.6	21
3-DH5	2441	9.6	21
3-DH5	2480	9.1	21

Note:
1. The cable loss is taken into account in results.
2. EIRP=Conducted Output Power + Antenna Gain (1.5dBi), which is far below the 0.5W (27dBm).

5.1.4 Frequency Separation

RESULT: **Pass**

Date of testing	:	2024-10-24
Ambient temperature	:	22.8°C
Relative humidity	:	53.2%
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: 2013
Test voltage	:	AC 120V, 60Hz
Test modes applied	:	A

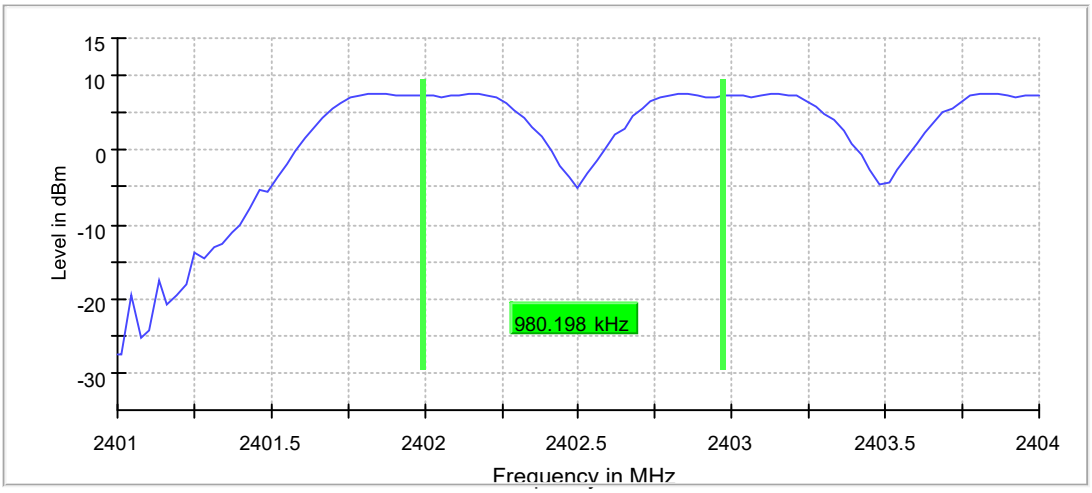
Carrier Frequency Separation (1-DH5, 2402 MHz)

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	0.666667	---	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	17 / max. 150	max. 150
Stable	10 / 10	10
Max Stable Difference	0.07 dB	0.50 dB

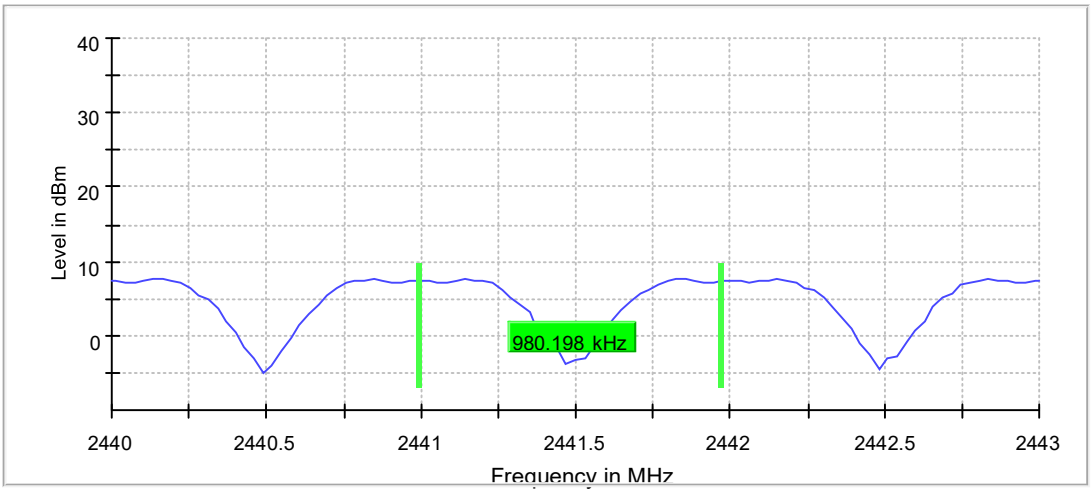
Carrier Frequency Separation (1-DH5, 2441 MHz)

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	0.666667	---	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	12 / max. 150	max. 150
Stable	10 / 10	10
Max Stable Difference	0.00 dB	0.50 dB

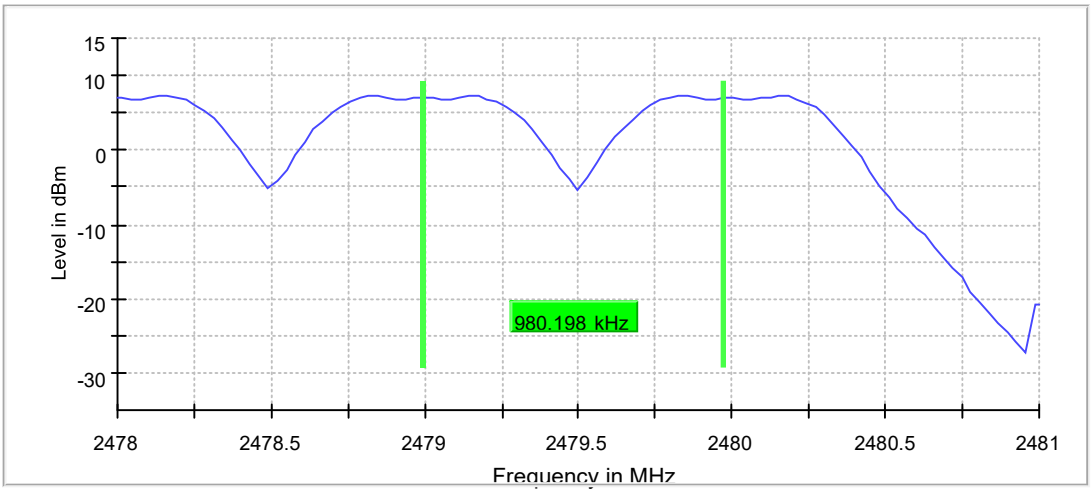
Carrier Frequency Separation (1-DH5, 2480 MHz)

DUT Frequency (MHz)	Frequency Separation (MHz)	Limit Min (MHz)	Limit Max (MHz)	Center Frequency low Channel (MHz)	Center Frequency high Channel (MHz)
2480.000000	0.980198	0.666667	---	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	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	19 / max. 150	max. 150
Stable	10 / 10	10
Max Stable Difference	0.00 dB	0.50 dB

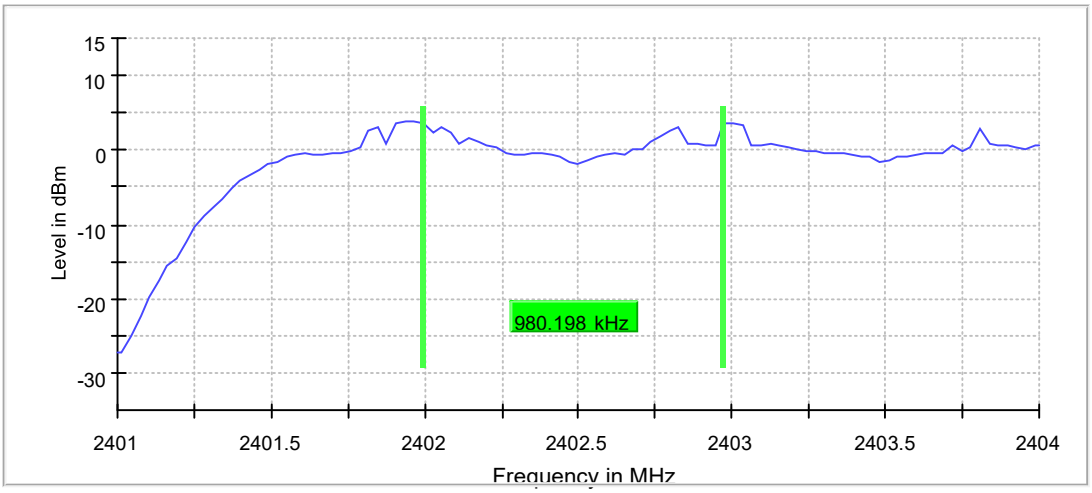
Carrier Frequency Separation (2-DH5, 2402 MHz)

DUT Frequency (MHz)	Frequency Separation (MHz)	Limit Min (MHz)	Limit Max (MHz)	Center Frequency low Channel (MHz)	Center Frequency high Channel (MHz)
2402.000000	0.980198	0.666667	---	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	87 / max. 150	max. 150
Stable	10 / 10	10
Max Stable Difference	0.00 dB	0.50 dB

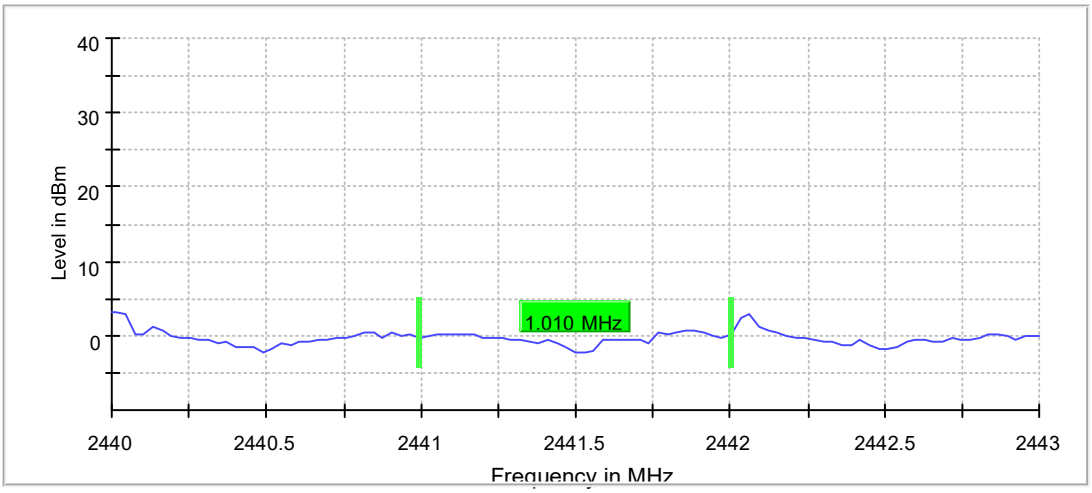
Carrier Frequency Separation (2-DH5, 2441 MHz)

DUT Frequency (MHz)	Frequency Separation (MHz)	Limit Min (MHz)	Limit Max (MHz)	Center Frequency low Channel (MHz)	Center Frequency high Channel (MHz)
2441.000000	1.009900	0.666667	---	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	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	11 / max. 150	max. 150
Stable	10 / 10	10
Max Stable Difference	0.00 dB	0.50 dB

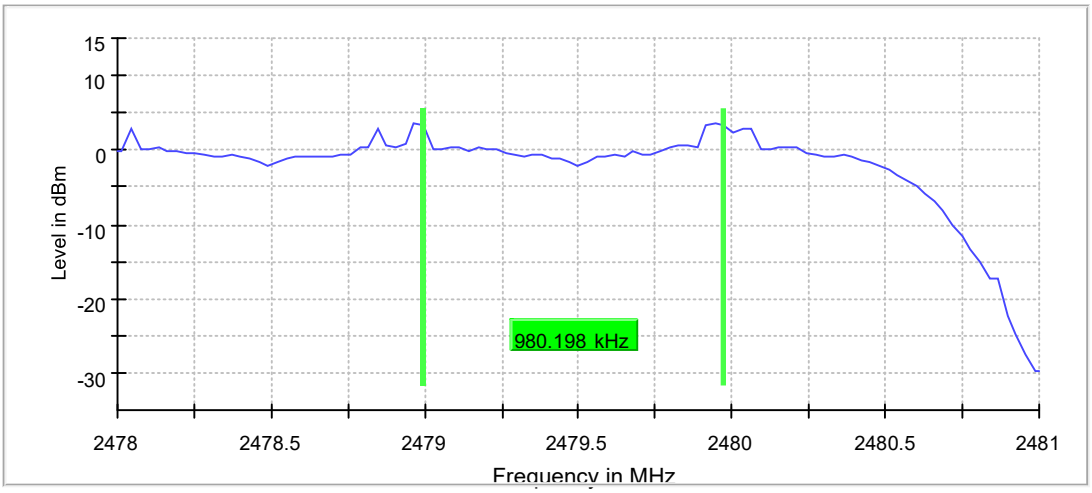
Carrier Frequency Separation (2-DH5, 2480 MHz)

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	0.666667	---	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	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	52 / max. 150	max. 150
Stable	10 / 10	10
Max Stable Difference	0.06 dB	0.50 dB

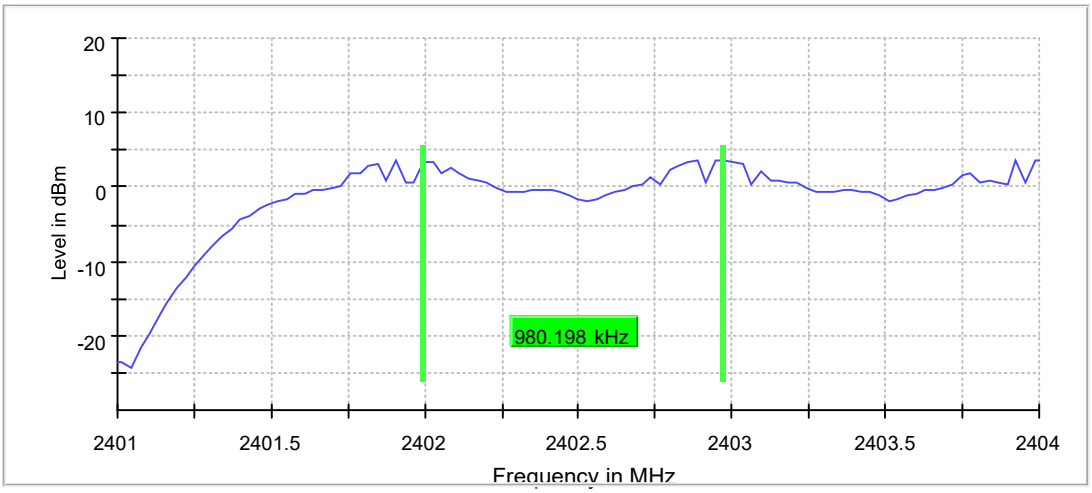
Carrier Frequency Separation (3-DH5, 2402 MHz)

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	0.666667	---	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	115 / max. 150	max. 150
Stable	10 / 10	10
Max Stable Difference	0.00 dB	0.50 dB

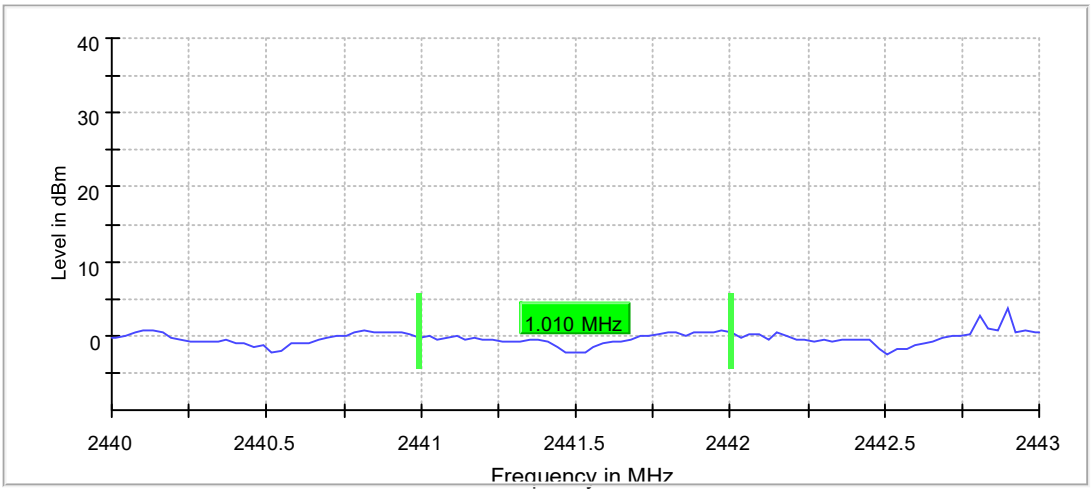
Carrier Frequency Separation (3-DH5, 2441 MHz)

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	0.666667	---	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	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

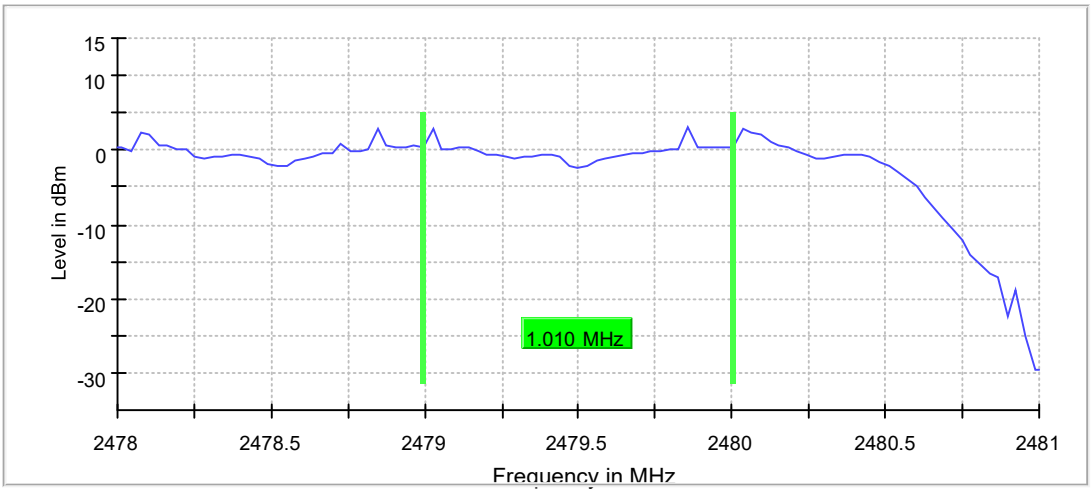
Carrier Frequency Separation (3-DH5, 2480 MHz)

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	0.666667	---	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	55 / max. 150	max. 150
Stable	10 / 10	10
Max Stable Difference	0.00 dB	0.50 dB

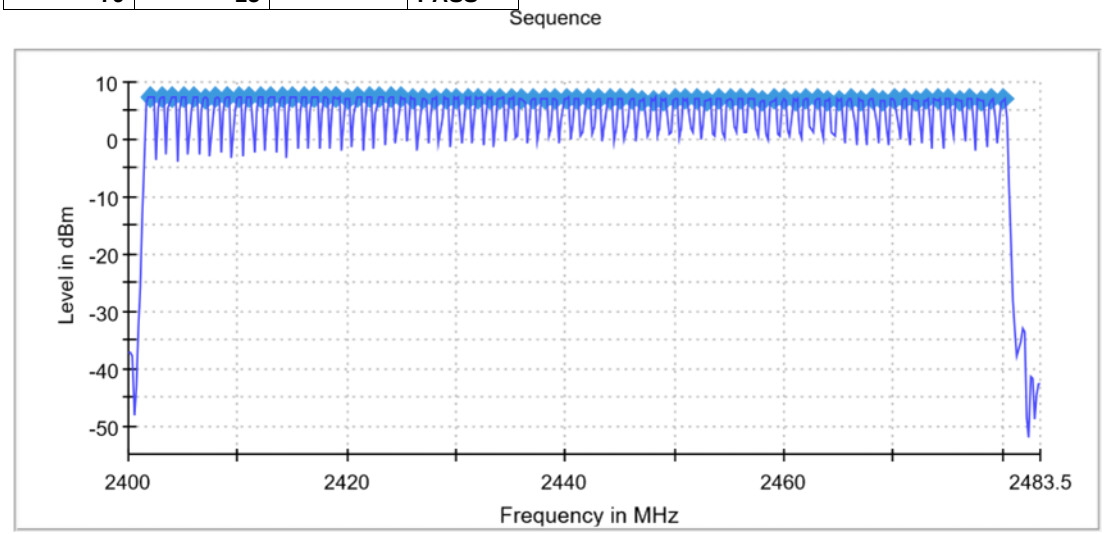
5.1.5 Number of Hopping Frequency

RESULT: **Pass**

Date of testing	:	2024-10-24
Ambient temperature	:	22.8°C
Relative humidity	:	53.2%
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: 2013
Test voltage	:	AC 120V, 60Hz
Test modes applied	:	A

Hopping Frequencies (1-DH5)

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

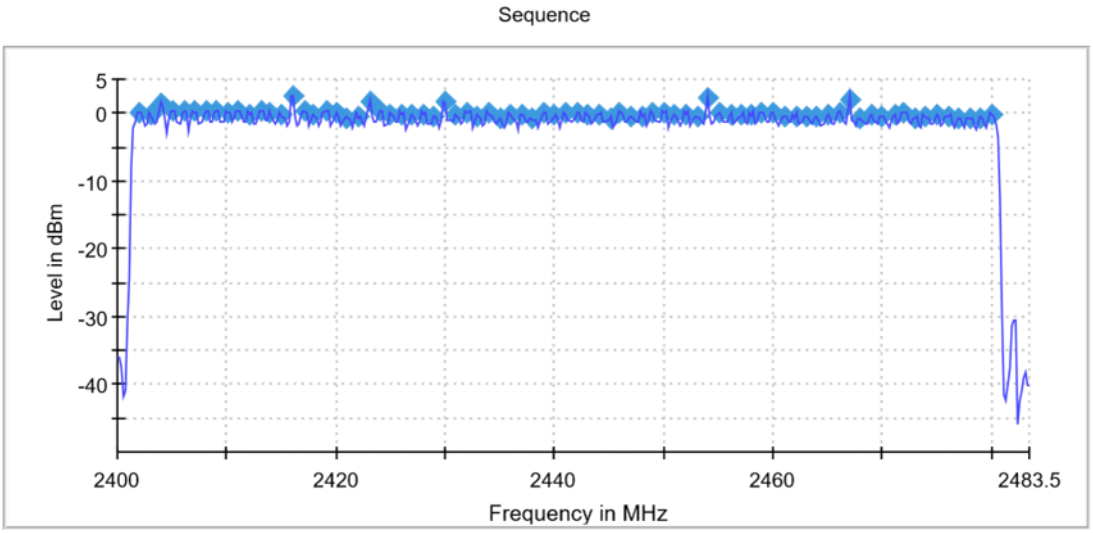


Measurement

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	55 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.46 dB	0.50 dB

Hopping Frequencies (2-DH5)

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



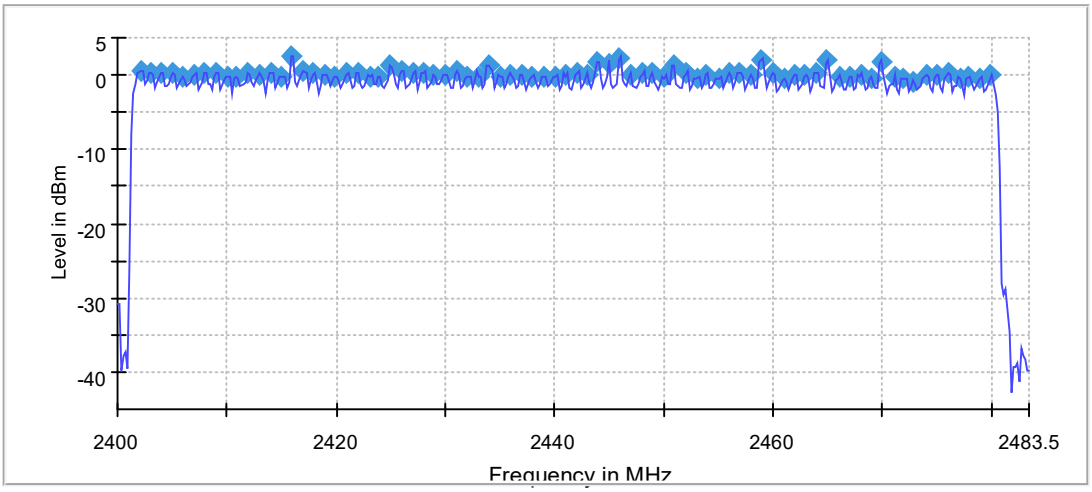
Measurement

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	107 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.37 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	99 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.41 dB	0.50 dB

5.1.6 Time of Occupancy

RESULT: **Pass**

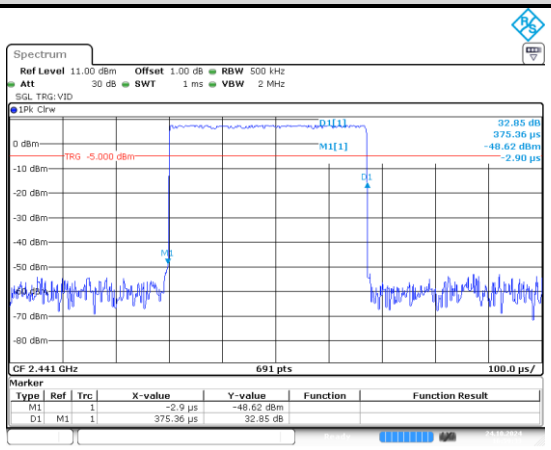
Date of testing	:	2024-10-24
Ambient temperature	:	22.8°C
Relative humidity	:	53.2%
Atmospheric pressure	:	101kPa
Test requirement	:	FCC 15.247(a)(1)(iii) RSS-247 Issue 3, August 2023, Clause 5.1(d)
Test procedure	:	ANSI C63.10: 2013
Test voltage	:	AC 120V, 60Hz
Test modes applied	:	A

Table 9: Time of Occupancy

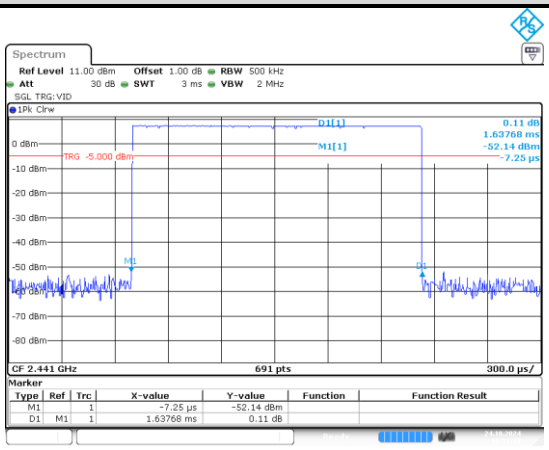
Mode	Frequency [MHz]	Dwell Time [ms]	Number of Hops	Time of Occupancy [ms]	Limit [ms]
1-DH1	2441	0.375	189	70.875	400
1-DH3	2441	1.638	126	206.388	400
1-DH5	2441	2.891	95	274.645	400
2-DH1	2441	0.384	194	74.496	400
2-DH3	2441	1.642	131	215.102	400
2-DH5	2441	2.899	84	243.516	400
3-DH1	2441	0.384	195	74.880	400
3-DH3	2441	1.642	137	224.954	400
3-DH5	2441	2.899	74	214.526	400

Figure 1: Dwell Time

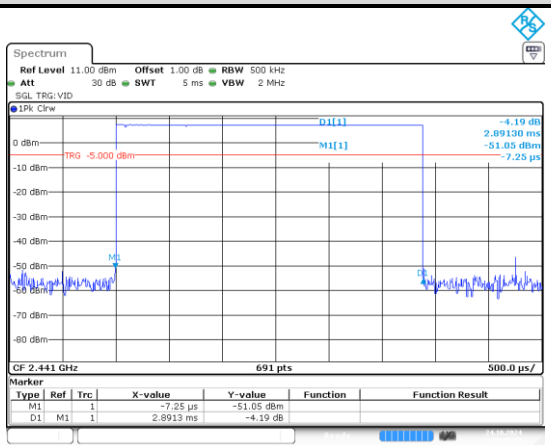
1-DH1



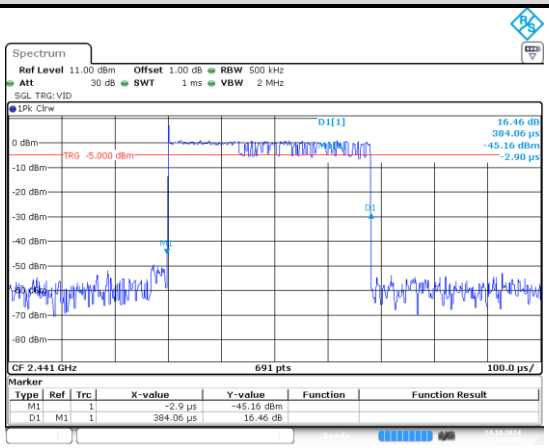
1-DH3



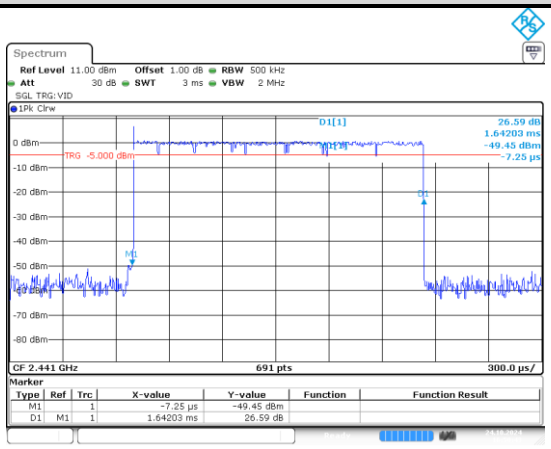
1-DH5



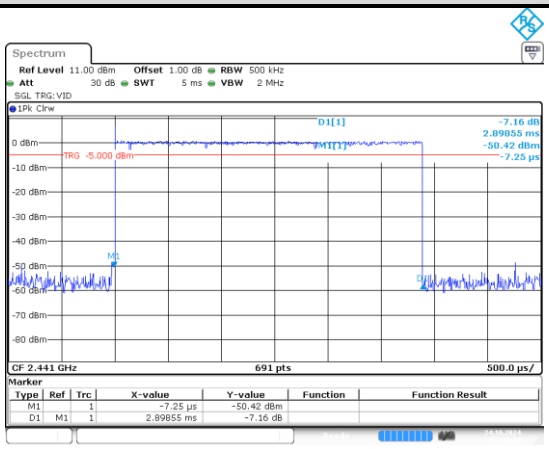
2-DH1



2-DH3



2-DH5



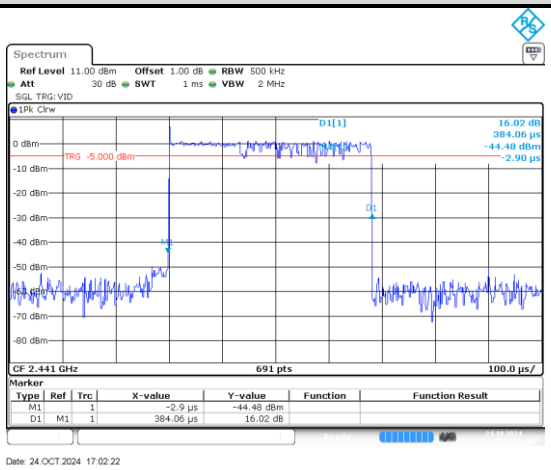
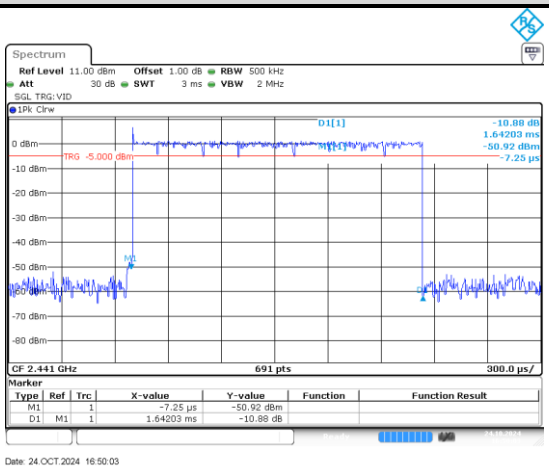
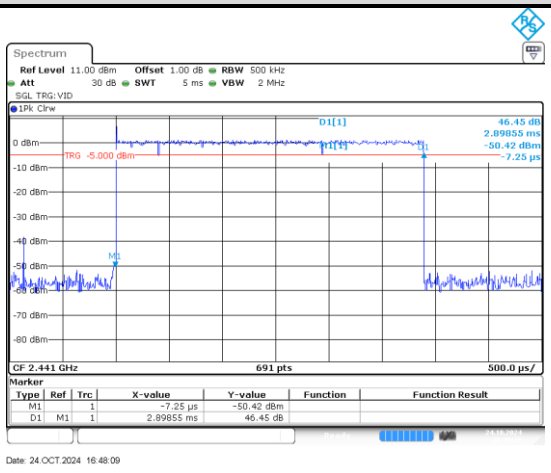
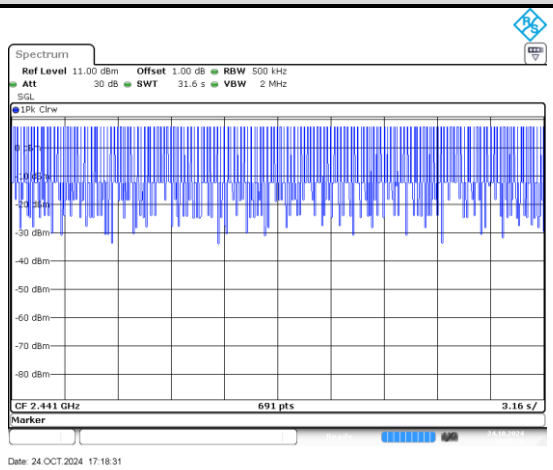
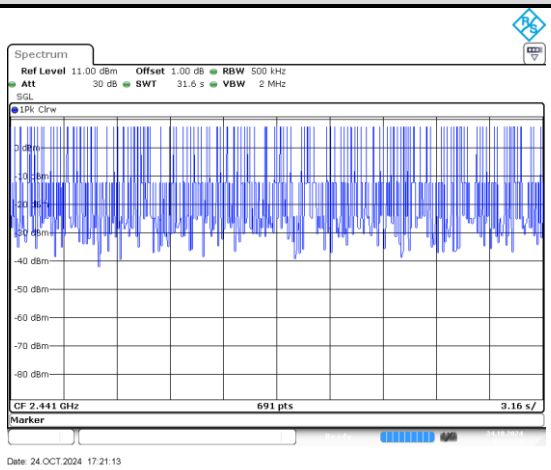
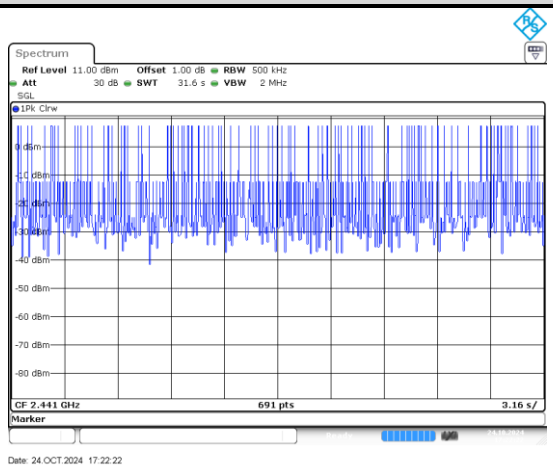
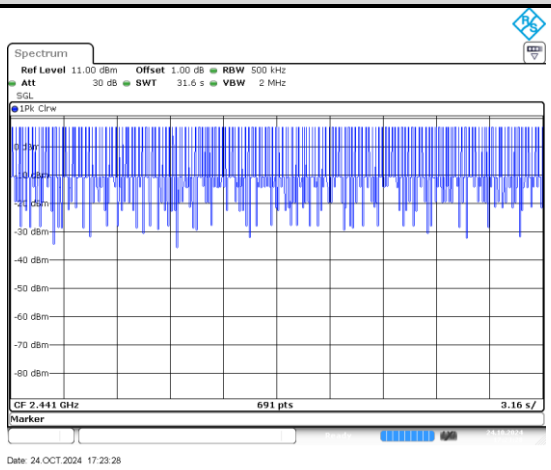
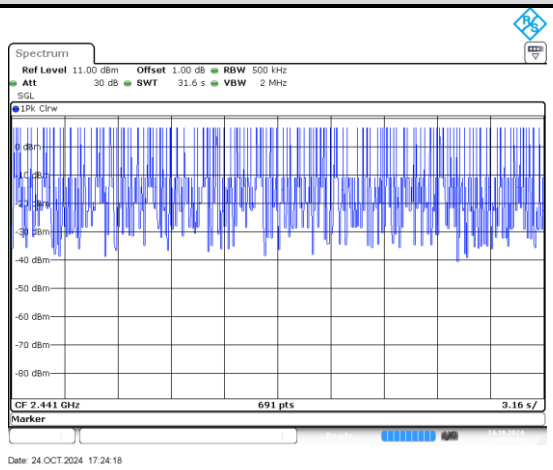
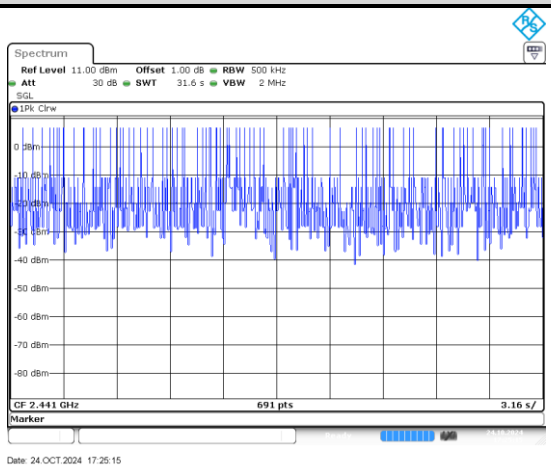
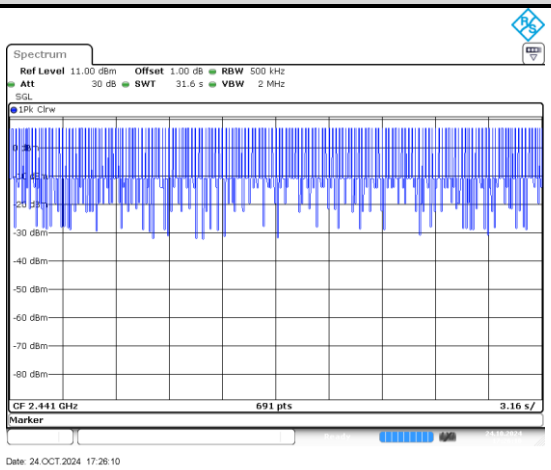
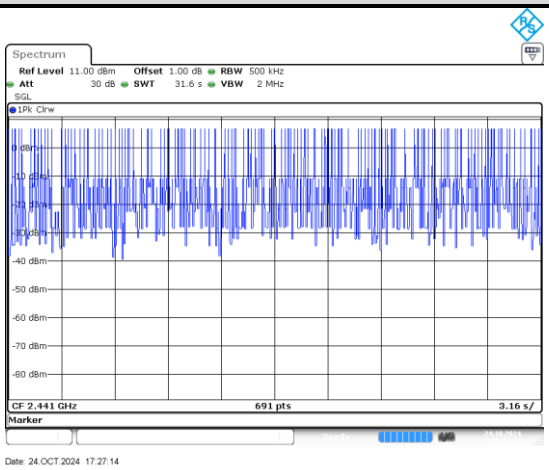
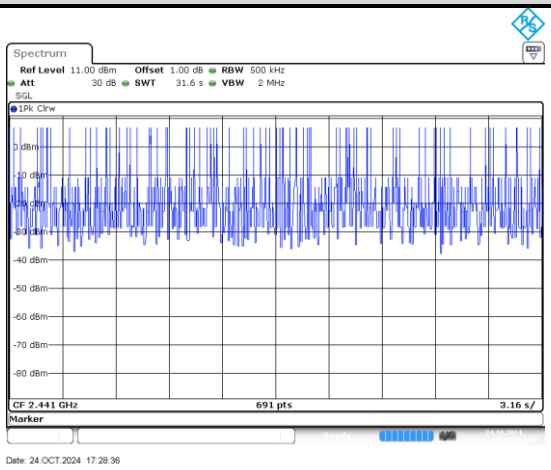
3-DH1	3-DH3
	
3-DH5	
	

Figure 2: Number of Hops

1-DH1	1-DH3
	
1-DH5	**2-DH1**
	
2-DH3	**2-DH5**
	

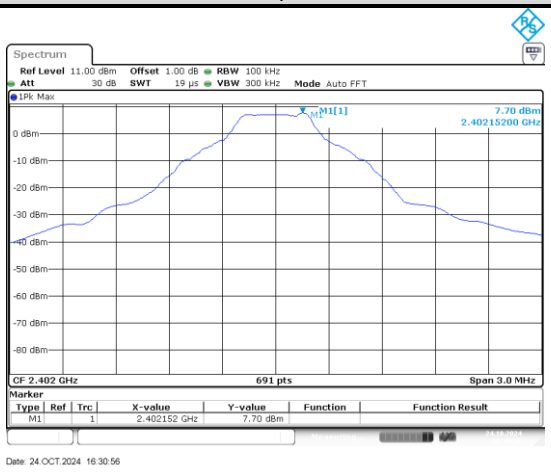
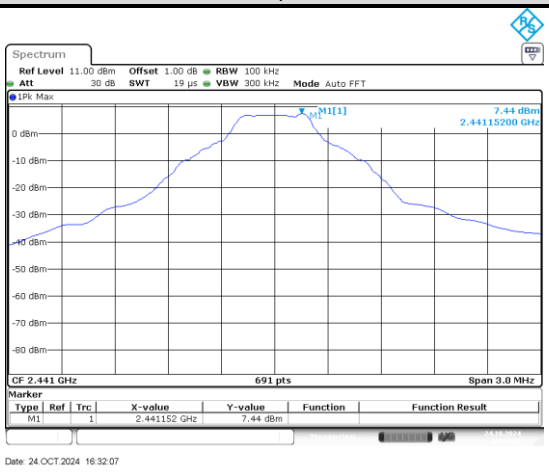
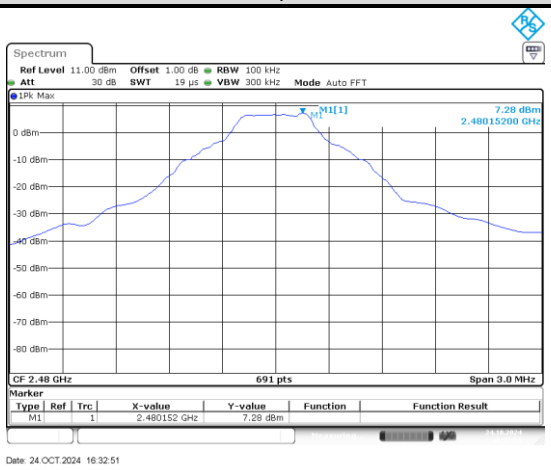
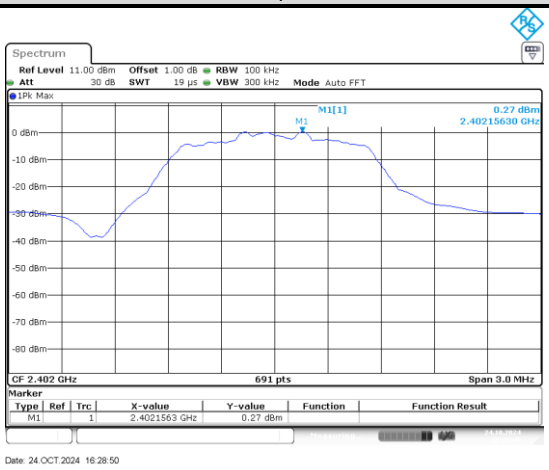
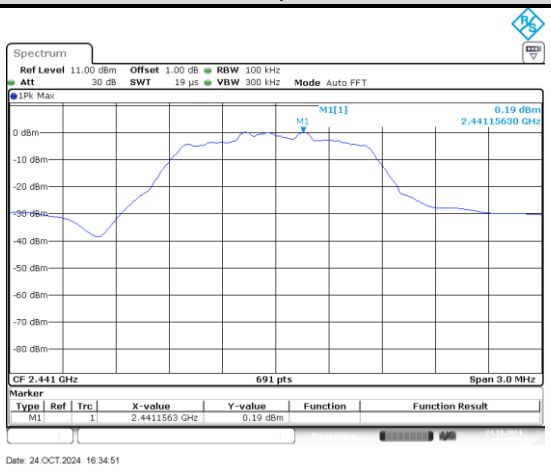
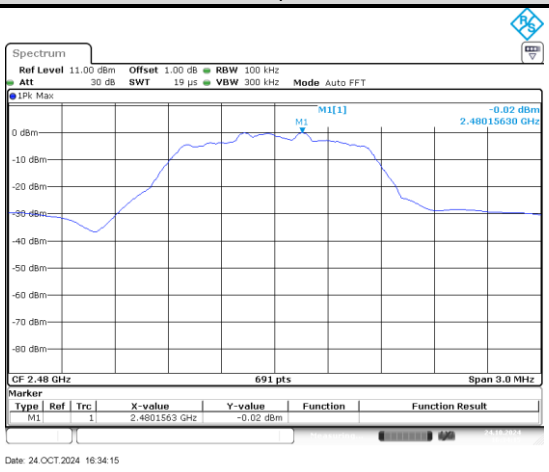
3-DH1	3-DH3
	
3-DH5	
	

5.1.7 Conducted Band Edge and out-of Band Emissions

RESULT: **Pass**

Date of testing	:	2024-10-24
Ambient temperature	:	22.8°C
Relative humidity	:	53.2%
Atmospheric pressure	:	101kPa
Test requirement	:	FCC Part 15.247(d) RSS-247 Issue 3, August 2023, Clause 5.5
Test procedure	:	ANSI C63.10: 2013
Test voltage	:	AC 120V, 60Hz
Test modes applied	:	A

Figure 3: Reference Level

1-DH5, 2402	1-DH5, 2441
	
1-DH5, 2480	**2-DH5, 2402**
	
2-DH5, 2441	**2-DH5, 2480**
	

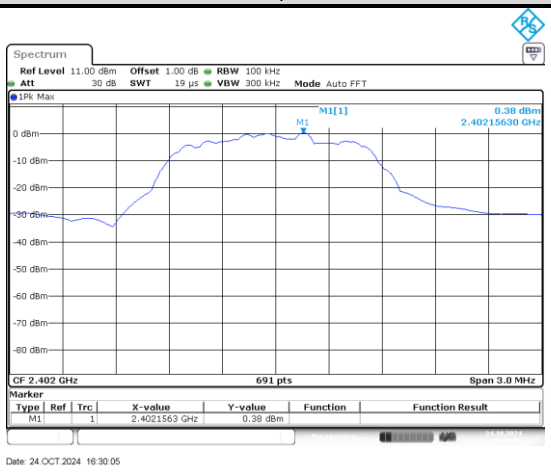
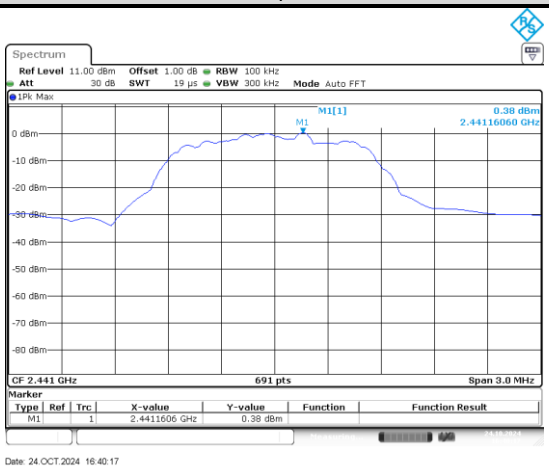
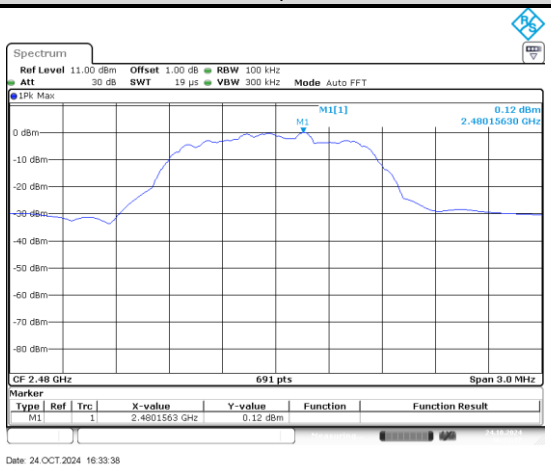
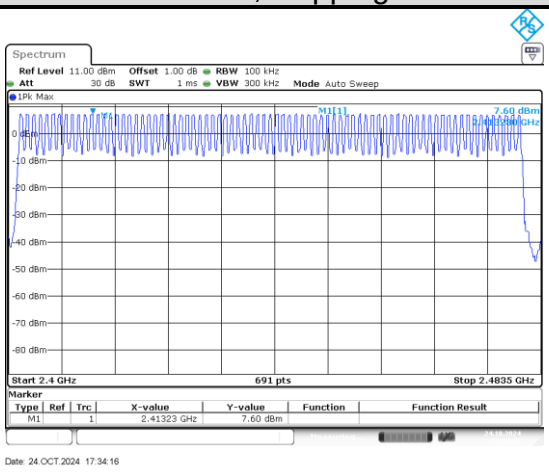
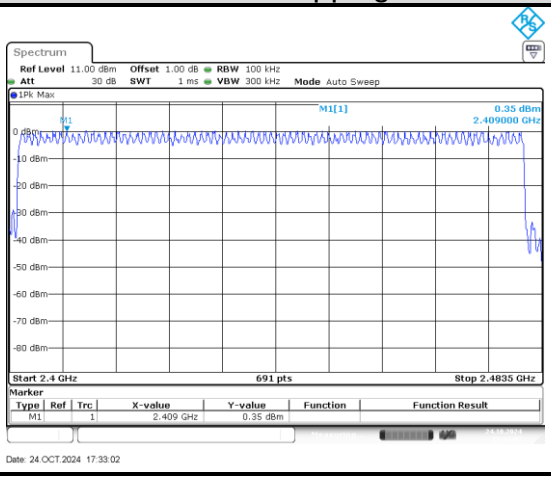
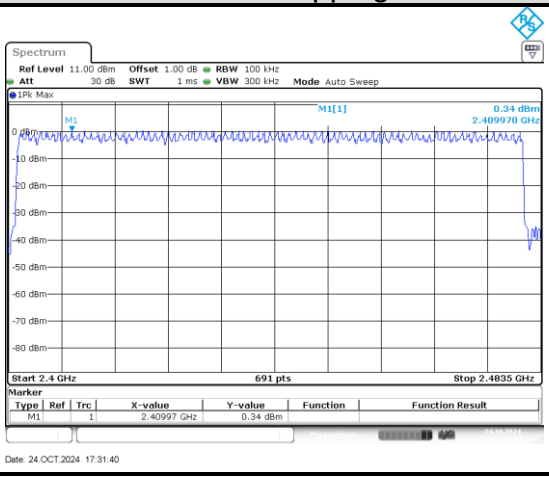
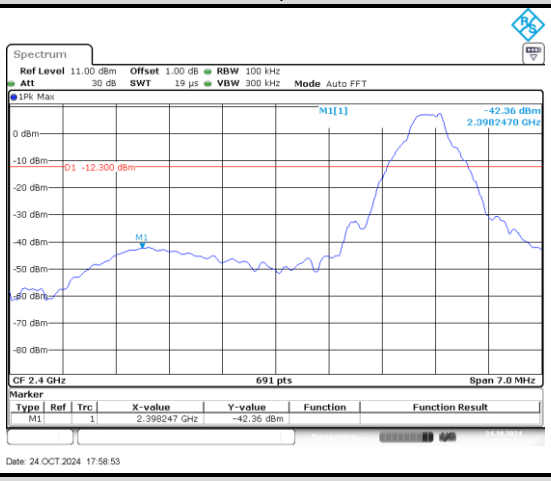
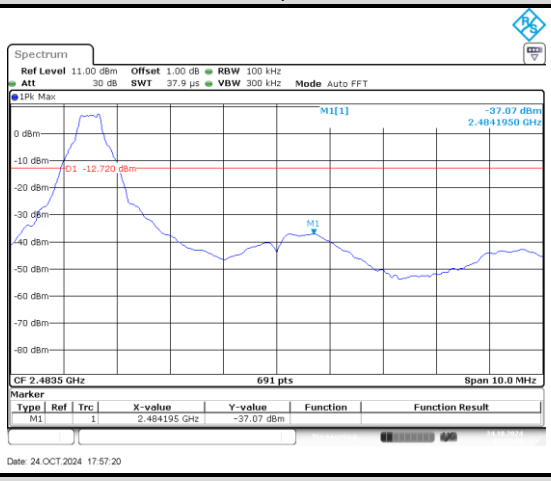
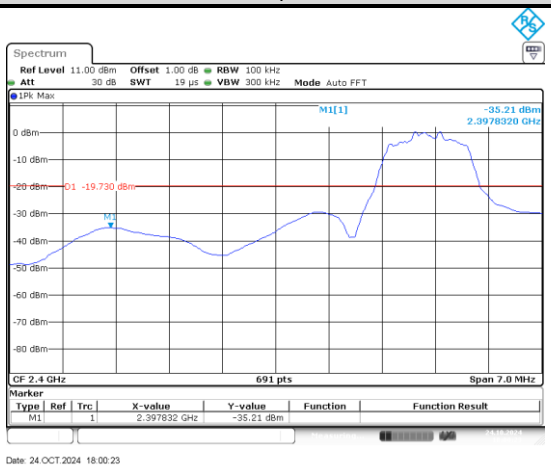
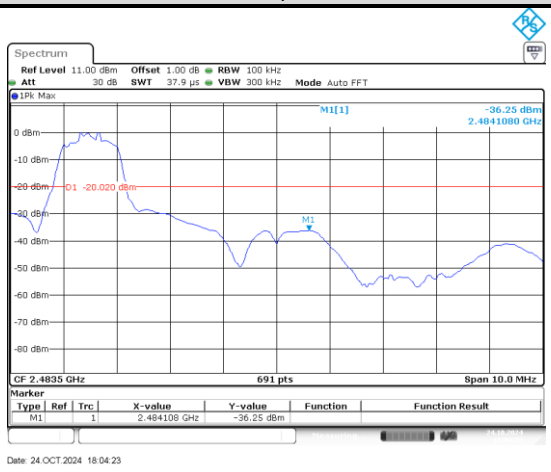
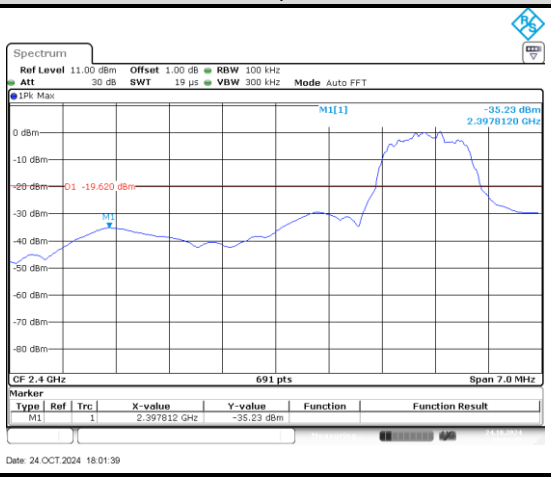
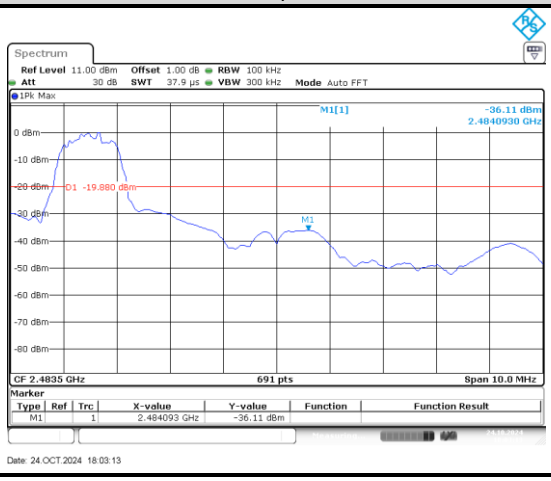
3-DH5, 2402	3-DH5, 2441
	
3-DH5, 2480	1-DH5, Hopping
	
2-DH5, Hopping	3-DH5, Hopping
	

Figure 4: Conducted Band Edge

1-DH5, 2402	1-DH5, 2480
	
2-DH5, 2402	2-DH5, 2480
	
3-DH5, 2402	3-DH5, 2480
	

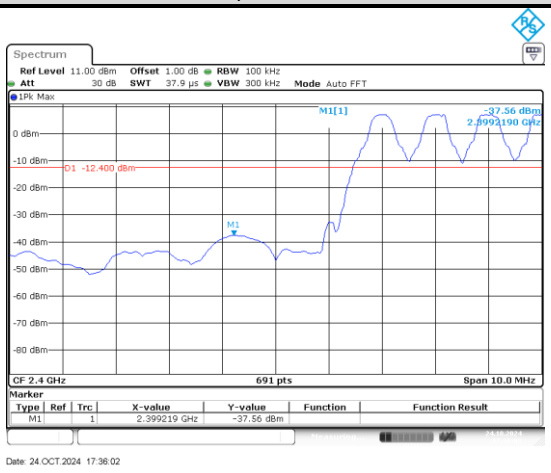
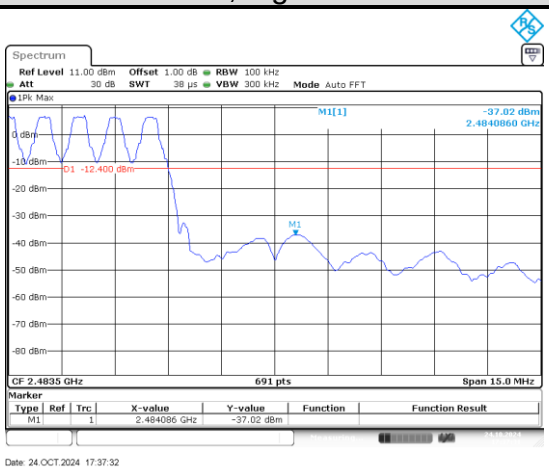
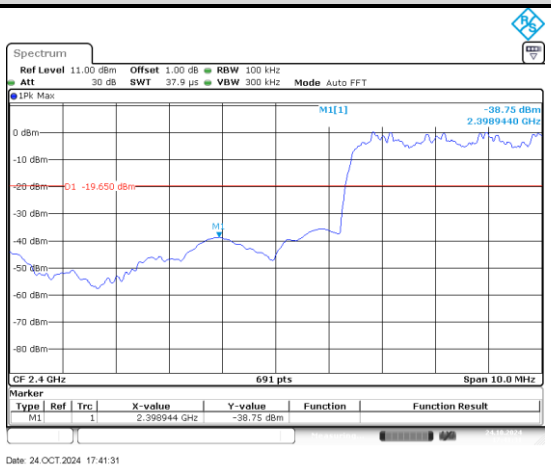
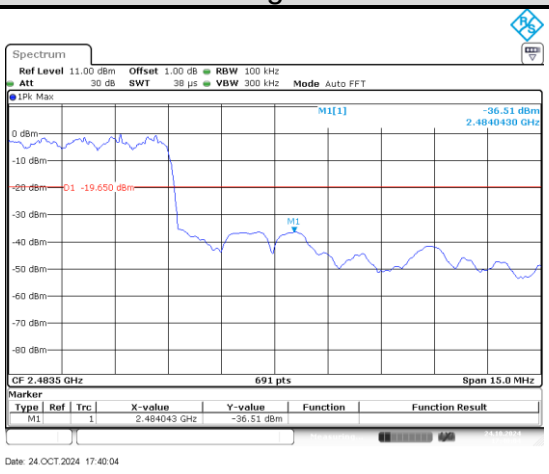
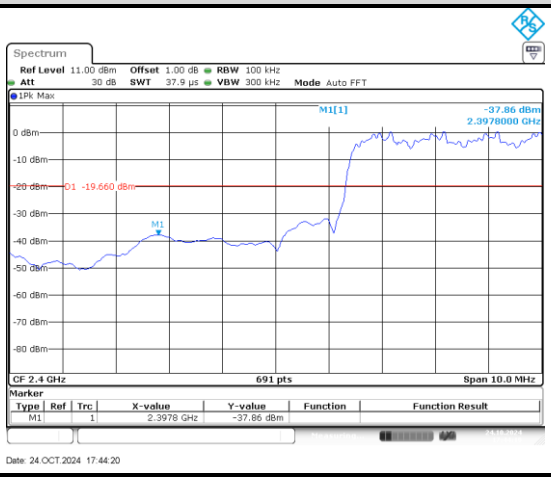
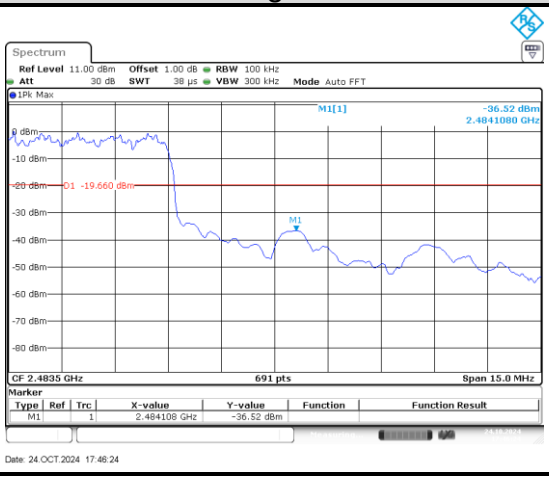
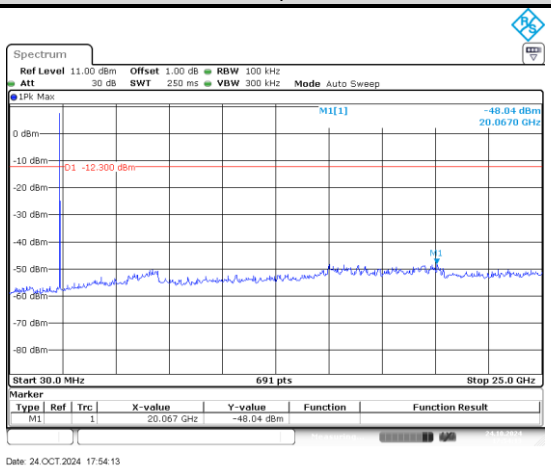
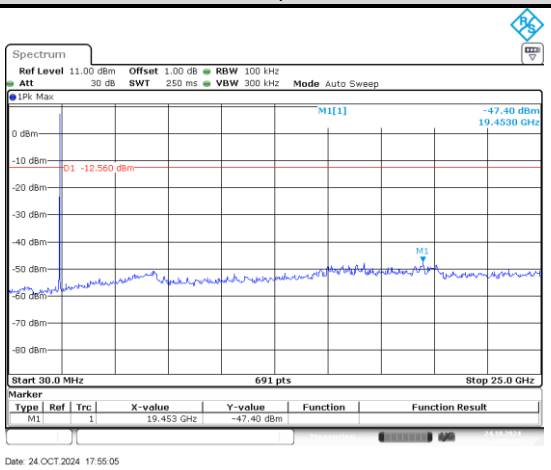
1-DH5, lower band	1-DH5, higher band
	
2-DH5 lower band	2-DH5 higher band
	
3-DH5 lower band	3-DH5 higher band
	

Figure 5: Conducted Spurious Emission

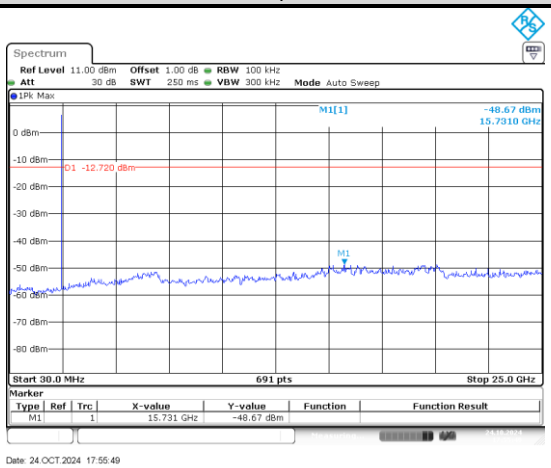
1-DH5, 2402



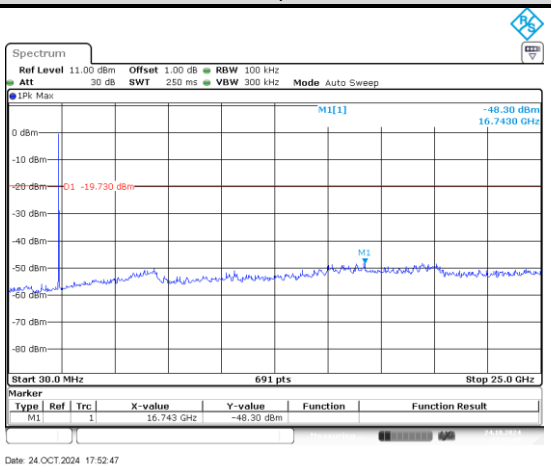
1-DH5, 2441



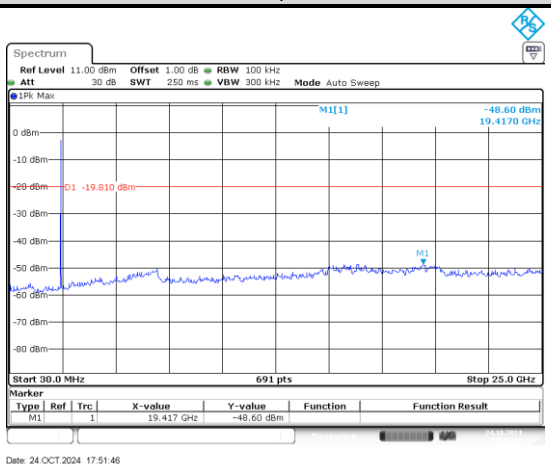
1-DH5, 2480



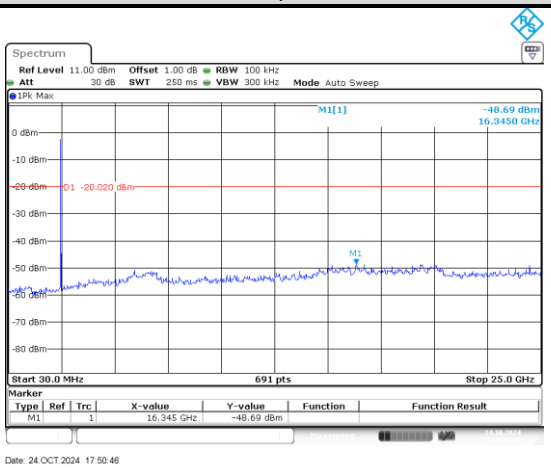
2-DH5, 2402

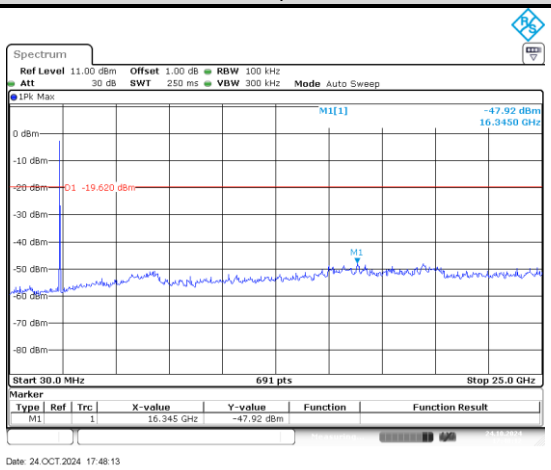
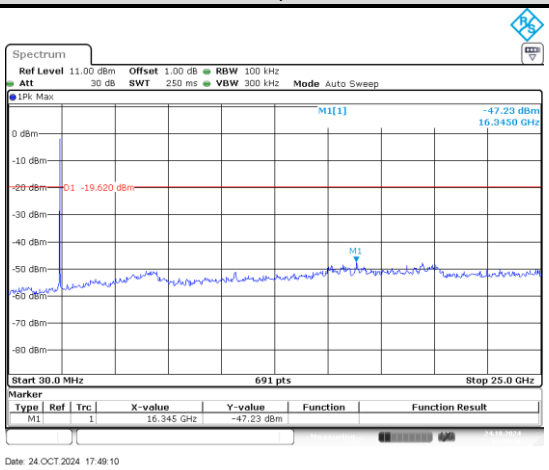
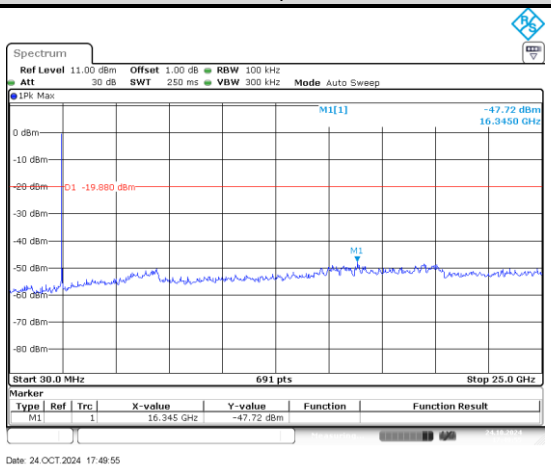


2-DH5, 2441



2-DH5, 2480



3-DH5, 2402	3-DH5, 2441
	
3-DH5, 2480	
	

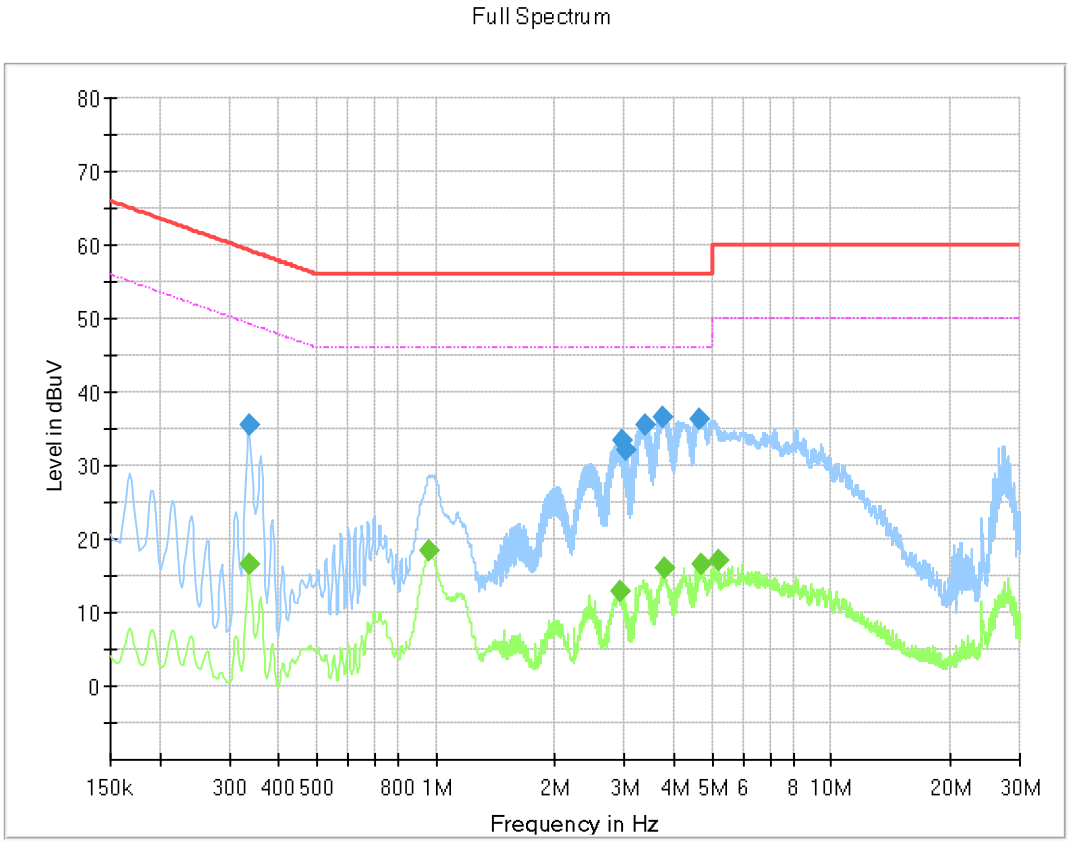
5.2 Emission in the Frequency Range up to 30MHz

5.2.1 Conducted Emission

RESULT: **Pass**

Date of testing	:	2024-10-25
Ambient temperature	:	22.2°C
Relative humidity	:	54.6%
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: 2013
Test voltage	:	AC 120V, 60Hz
Test modes applied	:	A

Figure 6: Conducted Emission, L



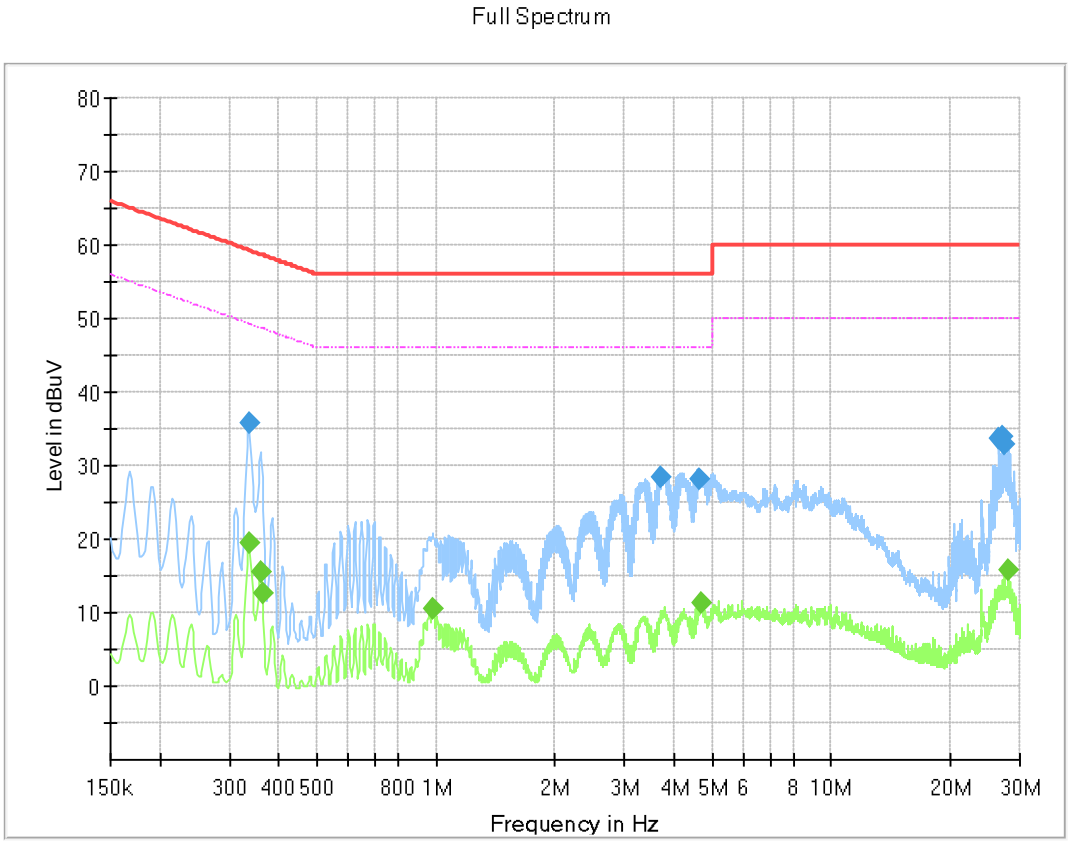
Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.336750	35.63	59.28	23.66	1000.0	9.000	L1	10.3
2.960250	33.38	56.00	22.62	1000.0	9.000	L1	10.2
3.032250	32.01	56.00	23.99	1000.0	9.000	L1	10.2
3.392250	35.43	56.00	20.57	1000.0	9.000	L1	10.2
3.741000	36.53	56.00	19.47	1000.0	9.000	L1	10.2
4.647750	36.27	56.00	19.73	1000.0	9.000	L1	10.3

Final_Result_CAV

Frequency (MHz)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.336750	16.45	49.28	32.83	1000.0	9.000	L1	10.3
0.960000	18.40	46.00	27.60	1000.0	9.000	L1	10.7
2.908500	12.88	46.00	33.12	1000.0	9.000	L1	10.2
3.783750	16.00	46.00	30.00	1000.0	9.000	L1	10.2
4.672500	16.58	46.00	29.42	1000.0	9.000	L1	10.3
5.192250	17.04	50.00	32.96	1000.0	9.000	L1	10.4

Figure 7: Conducted Emission, N



Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.336750	35.86	59.28	23.42	1000.0	9.000	N	10.5
3.711750	28.40	56.00	27.60	1000.0	9.000	N	10.7
4.620750	28.05	56.00	27.95	1000.0	9.000	N	10.7
26.623500	33.63	60.00	26.37	1000.0	9.000	N	11.6
27.226500	33.99	60.00	26.01	1000.0	9.000	N	11.6
27.546000	32.98	60.00	27.02	1000.0	9.000	N	11.6

Final_Result_CAV

Frequency (MHz)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.336750	19.53	49.28	29.75	1000.0	9.000	N	10.5
0.359250	15.56	48.75	33.19	1000.0	9.000	N	10.4
0.363750	12.72	48.64	35.93	1000.0	9.000	N	10.4
0.982500	10.45	46.00	35.55	1000.0	9.000	N	10.4
4.672500	11.27	46.00	34.73	1000.0	9.000	N	10.7
28.000500	15.88	50.00	34.12	1000.0	9.000	N	11.6

5.3 Emission in the Frequency Range above 30MHz

5.3.1 Radiated Band-Edge

RESULT: **Pass**

Date of testing	:	2024-10-31
Ambient temperature	:	21.7°C
Relative humidity	:	49.8%
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: 2013
Test voltage	:	AC 120V, 60Hz
Test modes applied	:	A

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

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

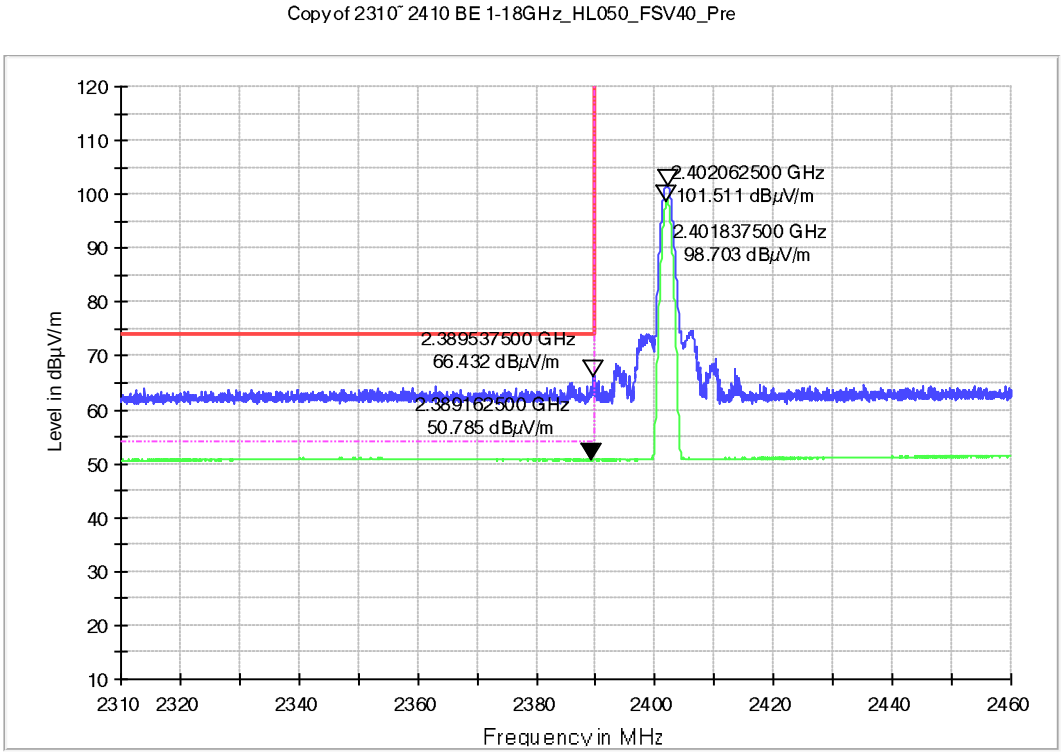


Figure 9: Radiated Band-Edge, 1-DH5, 2402, V

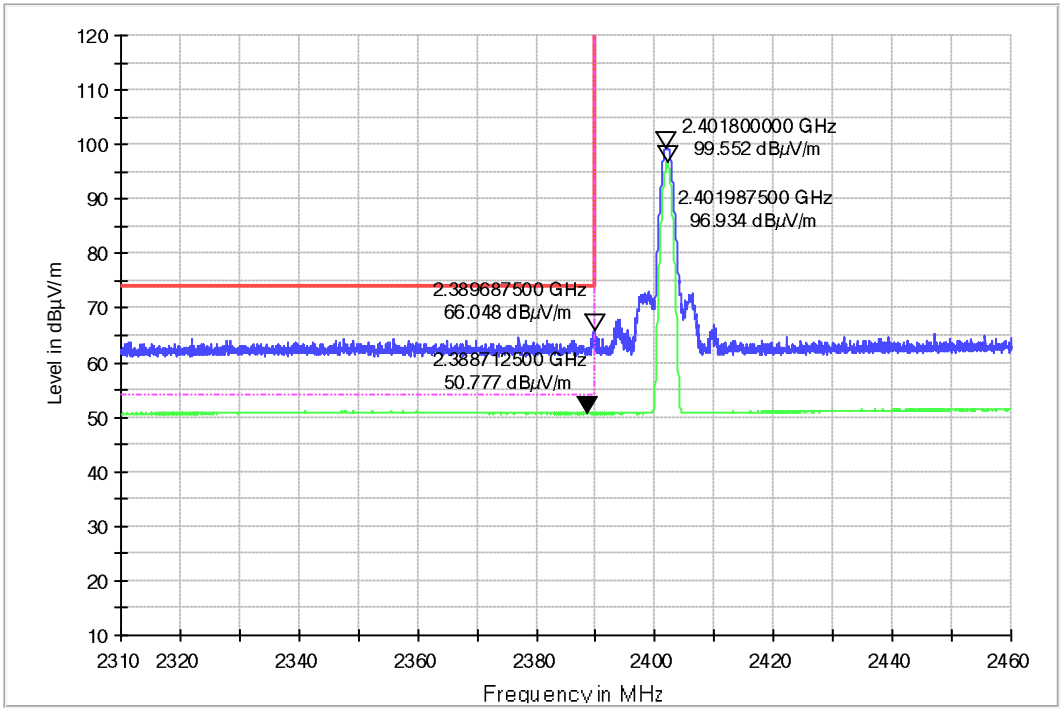


Figure 10: Radiated Band-Edge, 1-DH5, 2480, H

Copy of 2470~2500 BE_1-18GHz_HL050_FSV40_Pre

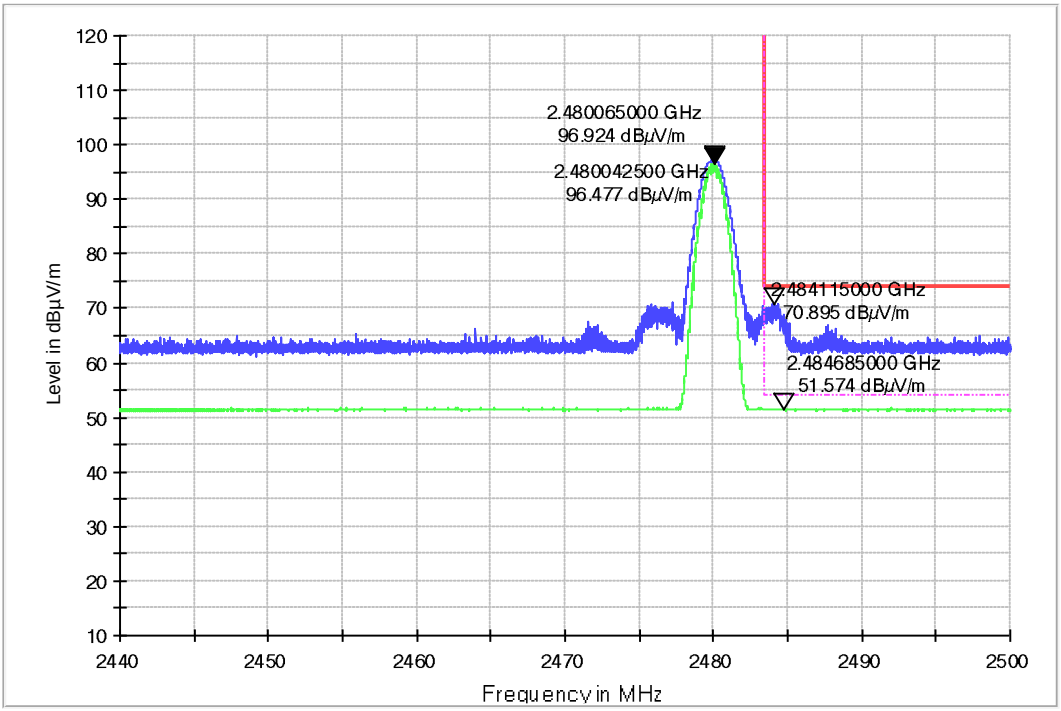


Figure 11: Radiated Band-Edge, 1-DH5, 2480, V

Copy of 2470~2500 BE_1-18GHz_HL050_FSV40_Pre

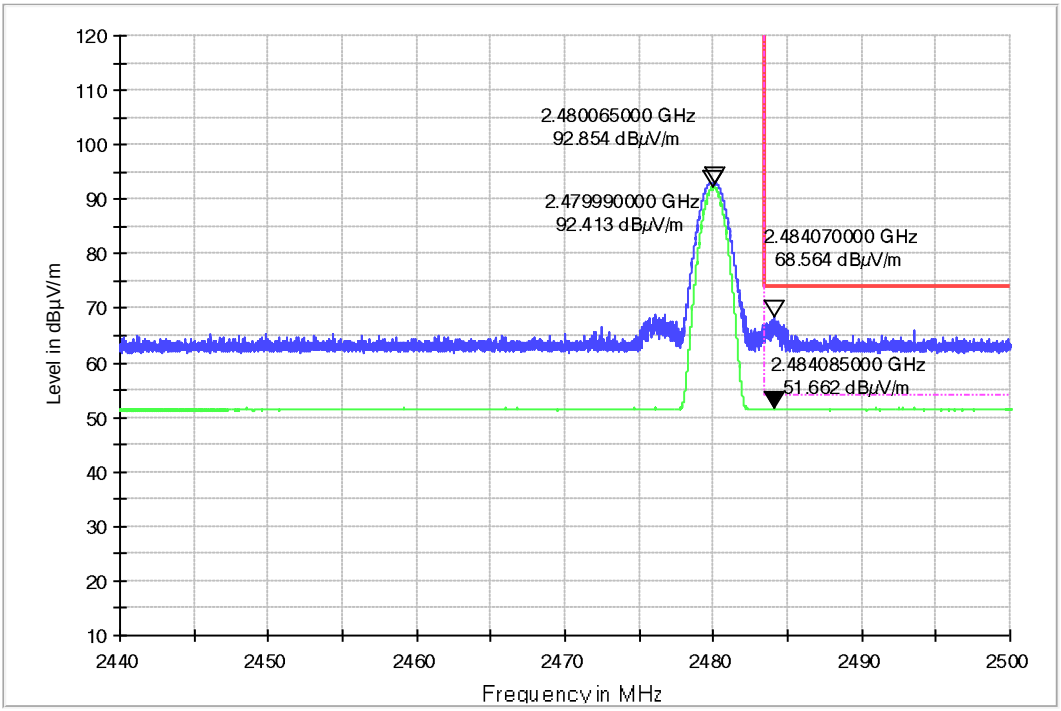


Figure 12: Radiated Band-Edge, 3-DH5, 2402, H

Copy of 2310~2410 BE 1-18GHz_HL050_FSV40_Pre

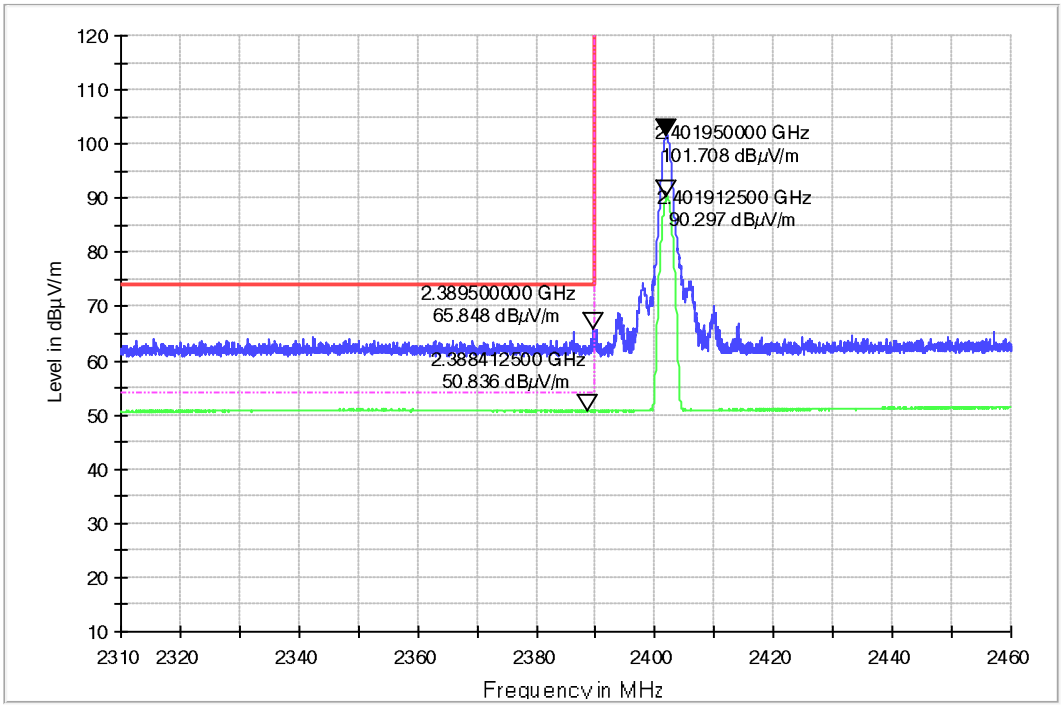


Figure 13: Radiated Band-Edge, 3-DH5, 2402, V

Copy of 2310~2410 BE 1-18GHz_HL050_FSV40_Pre

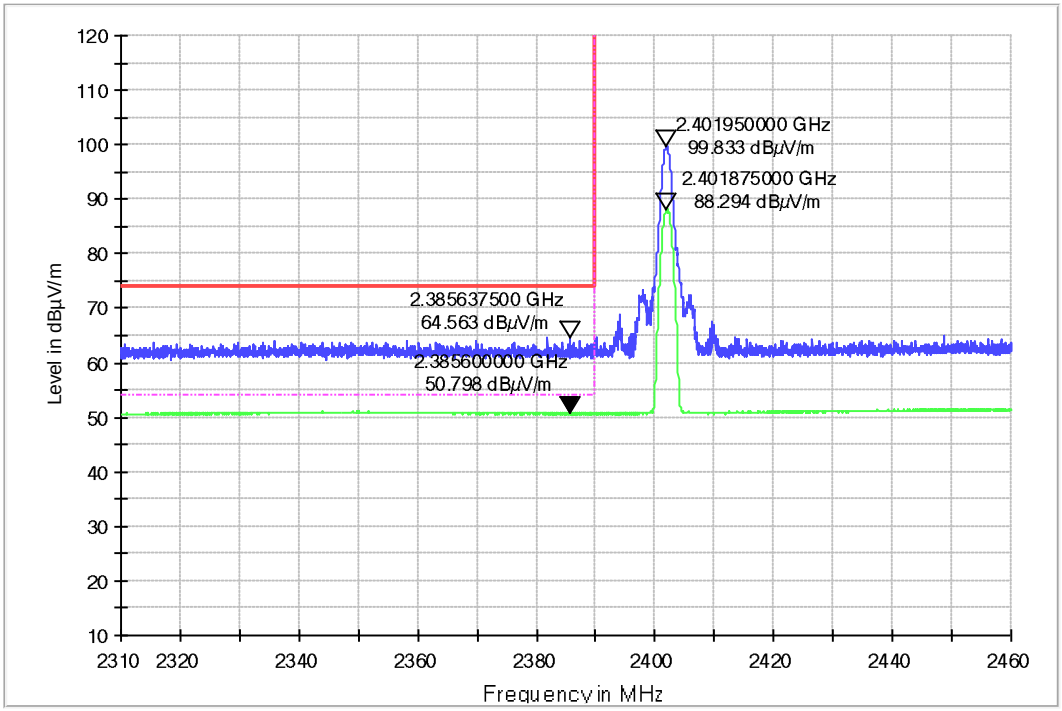


Figure 14: Radiated Band-Edge, 3-DH5, 2480, H

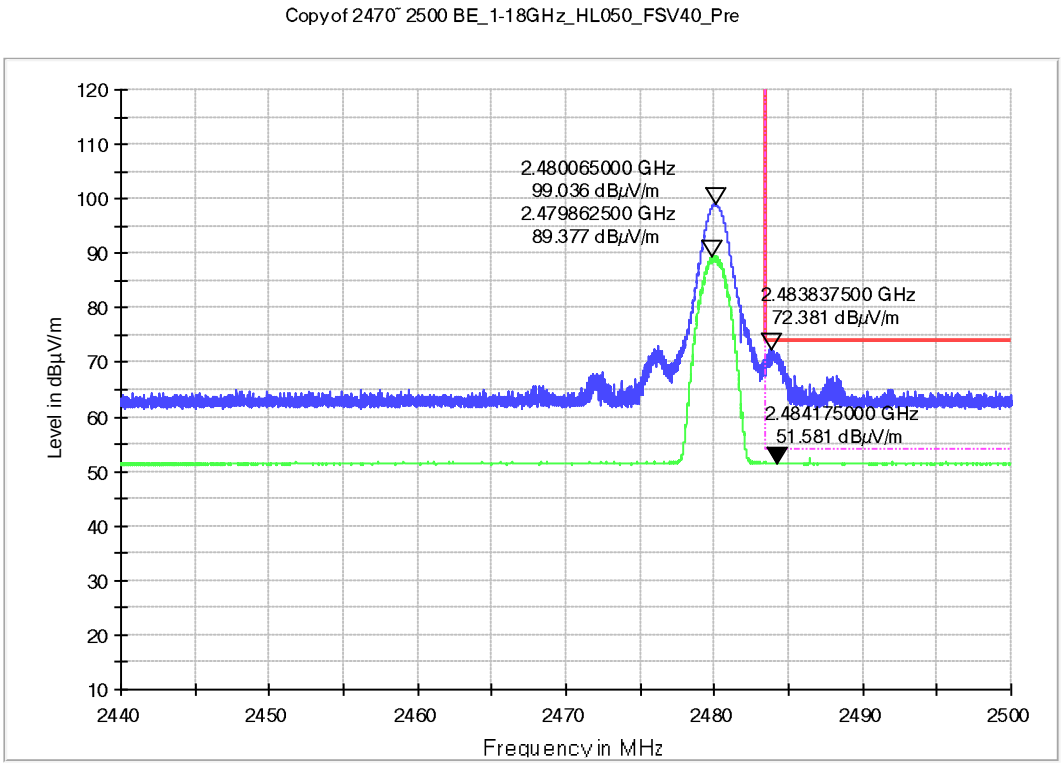
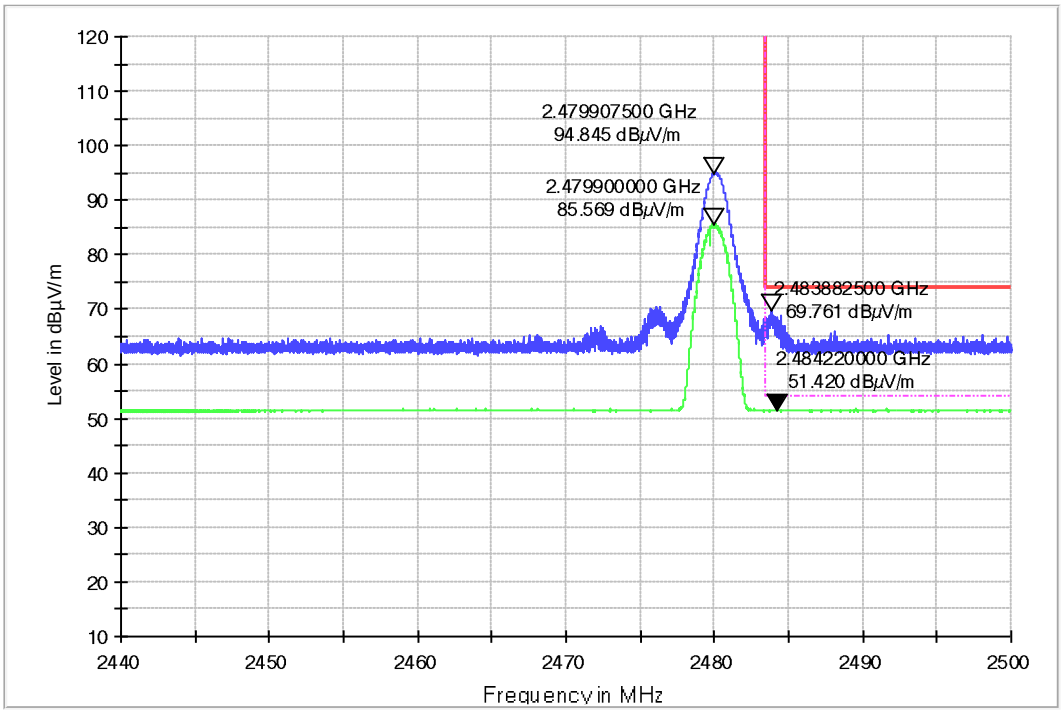


Figure 15: Radiated Band-Edge, 3-DH5, 2480, V



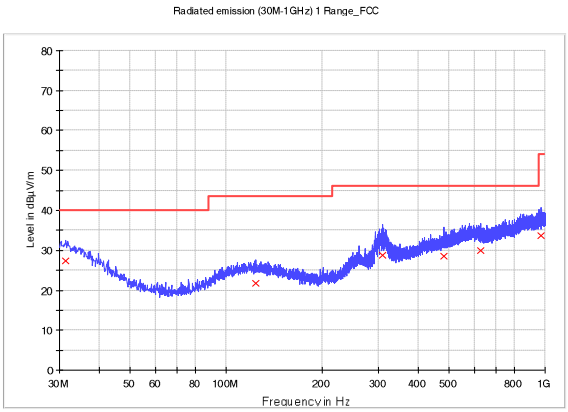
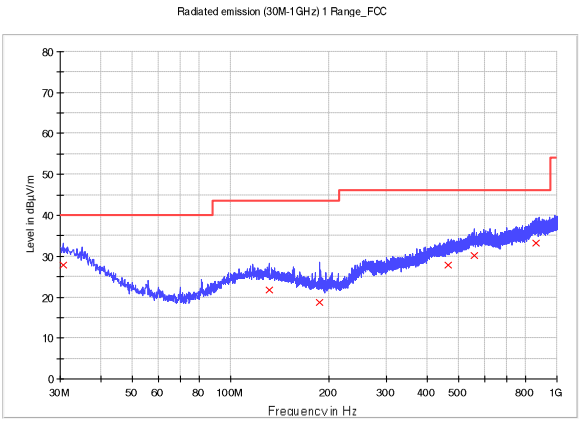
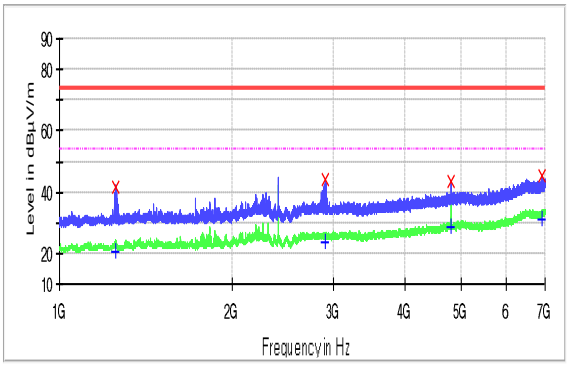
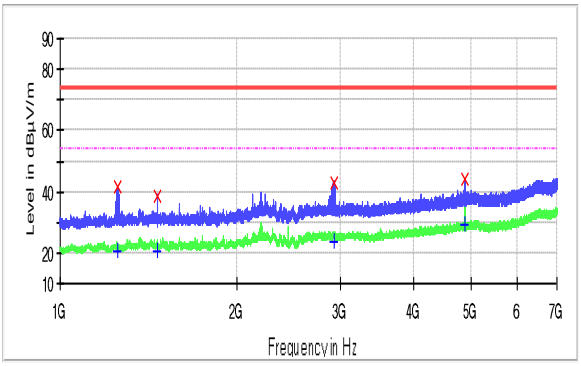
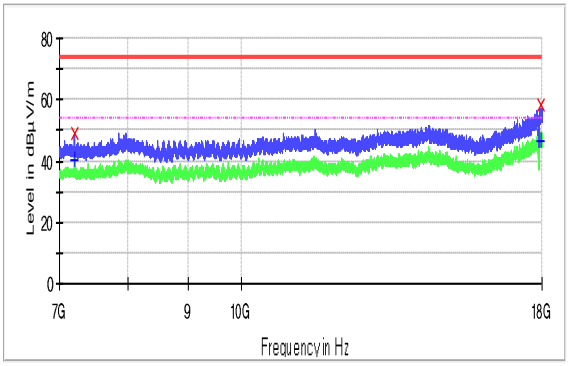
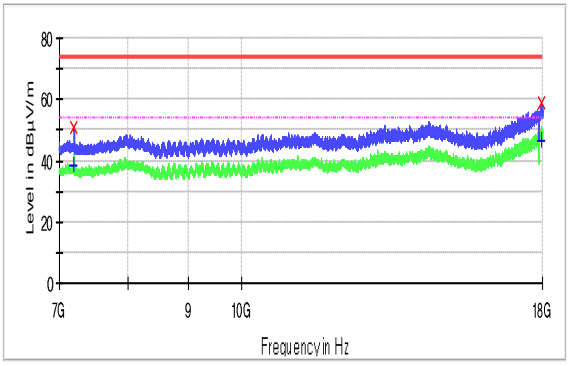
5.3.2 Radiated Spurious Emission

RESULT: **Pass**

Date of testing	:	2024-10-31
Ambient temperature	:	21.7°C
Relative humidity	:	49.8%
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: 2013
Test voltage	:	AC 120V, 60Hz
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

30MHz to 1GHz H	30MHz to 1GHz V
	
1GHz to 7GHz H	**1GHz to 7GHz V**
	
7GHz to 18GHz H	**7GHz to 18GHz V**
	

Limit and Margin

QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
31.455000	27.4	H	24.1	12.6	40.0
123.726250	21.8	H	18.8	21.7	43.5
309.602500	28.8	H	20.5	17.2	46.0
480.080000	28.5	H	25.2	17.5	46.0
627.883750	30.0	H	26.6	16.0	46.0
970.051250	33.7	H	29.6	20.3	54.0
30.606250	27.8	V	24.5	12.2	40.0
130.880000	21.8	V	18.6	21.7	43.5
187.503750	18.7	V	15.8	24.8	43.5
462.741250	27.8	V	24.6	18.2	46.0
556.103750	30.2	V	26.7	15.8	46.0
865.655000	33.3	V	28.8	12.7	46.0

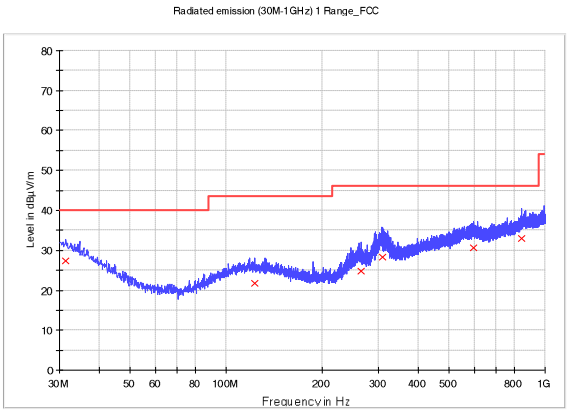
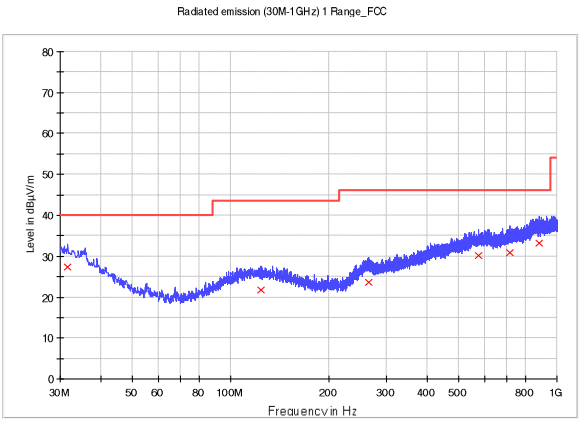
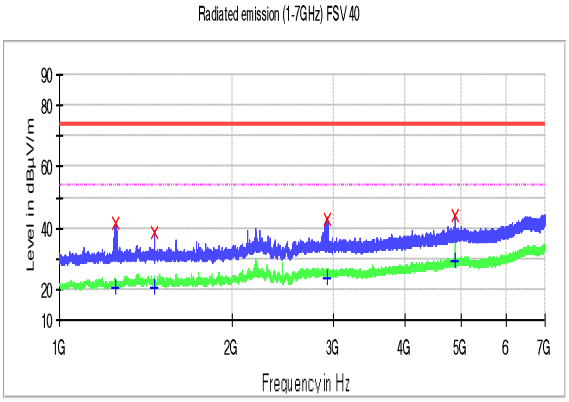
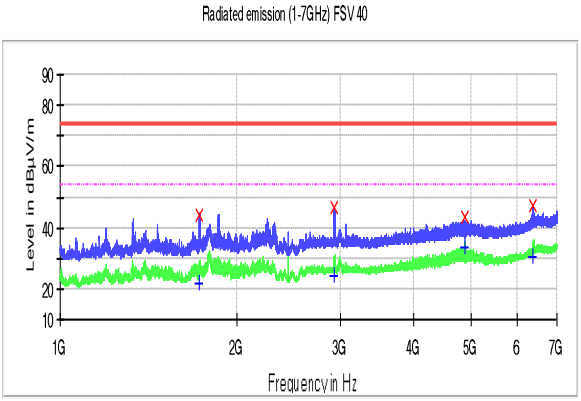
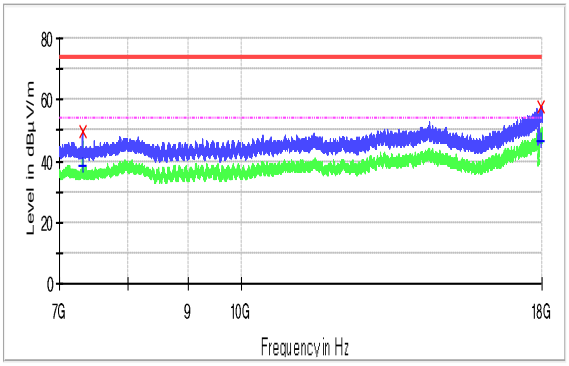
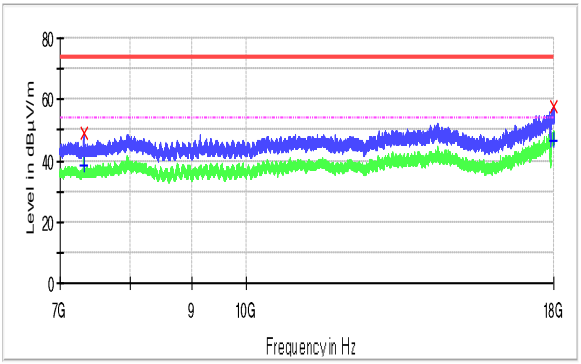
PK

Frequency (MHz)	MaxPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
1251.100000	41.9	H	-19.1	32.1	74.0
2903.200000	44.1	H	-14.8	29.9	74.0
4803.700000	43.3	H	-10.8	30.8	74.0
6926.500000	45.3	H	-6.7	28.7	74.0
7206.250000	49.1	H	-5.4	24.9	74.0
17978.343750	58.2	H	13.0	15.8	74.0
1728.100000	47.0	V	-18.5	27.0	74.0
1864.000000	45.4	V	-18.1	28.6	74.0
2930.200000	44.9	V	-14.7	29.1	74.0
4797.100000	42.8	V	-10.8	31.2	74.0
7205.562500	50.7	V	-5.4	23.3	74.0
17967.000000	58.8	V	12.8	15.2	74.0

AV

Frequency (MHz)	Average (dBµV/m)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
1251.100000	20.4	H	-19.1	33.6	54.0
2903.200000	23.6	H	-14.8	30.5	54.0
4803.700000	28.8	H	-10.8	25.2	54.0
6926.500000	31.3	H	-6.7	22.7	54.0
7206.250000	40.1	H	-5.4	13.9	54.0
17978.343750	46.4	H	13.0	7.6	54.0
1728.100000	23.0	V	-18.5	31.0	54.0
1864.000000	22.5	V	-18.1	31.5	54.0
2930.200000	24.4	V	-14.7	29.6	54.0
4797.100000	28.6	V	-10.8	25.4	54.0
7205.562500	38.6	V	-5.4	15.4	54.0
17967.000000	46.2	V	12.8	7.8	54.0

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

30MHz to 1GHz H	30MHz to 1GHz V
	
1GHz to 7GHz H	**1GHz to 7GHz V**
	
7GHz to 18GHz H	**7GHz to 18GHz V**
	

Limit and Margin

QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
31.455000	27.4	H	24.1	12.6	40.0
122.877500	21.8	H	18.8	21.7	43.5
264.376250	24.8	H	20.8	21.2	46.0
308.147500	28.4	H	20.5	17.6	46.0
596.965000	30.7	H	26.9	15.3	46.0
844.315000	33.0	H	28.9	13.0	46.0
31.697500	27.3	V	24.0	12.7	40.0
124.211250	21.8	V	18.8	21.7	43.5
264.982500	23.6	V	20.7	22.4	46.0
575.140000	30.1	V	26.4	15.9	46.0
717.123750	30.8	V	27.1	15.2	46.0
883.478750	33.2	V	28.7	12.8	46.0

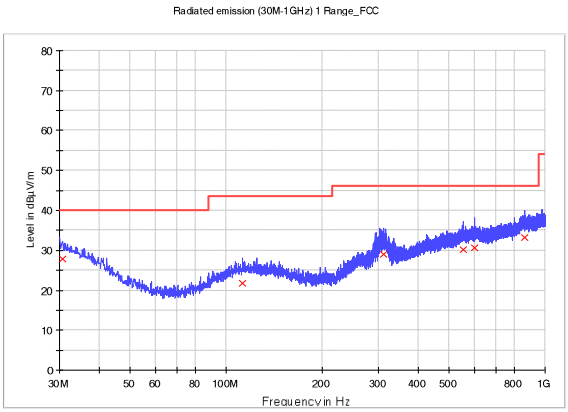
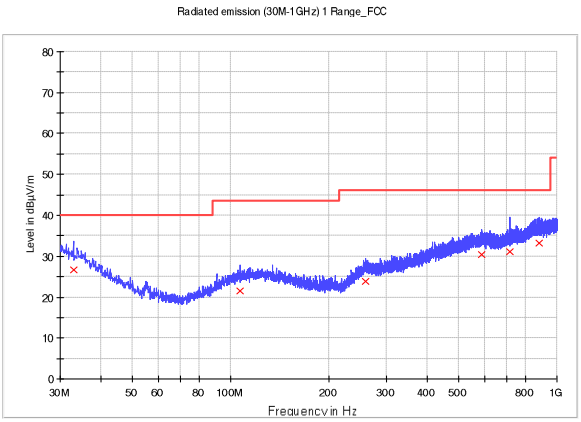
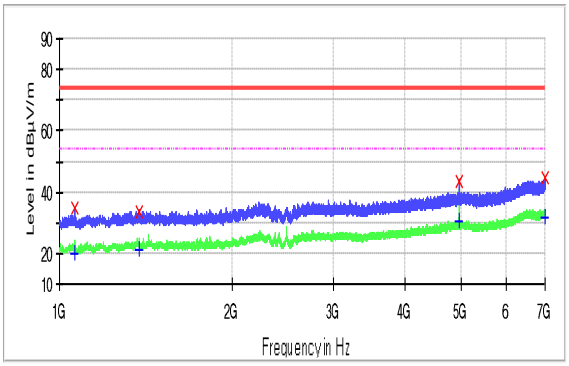
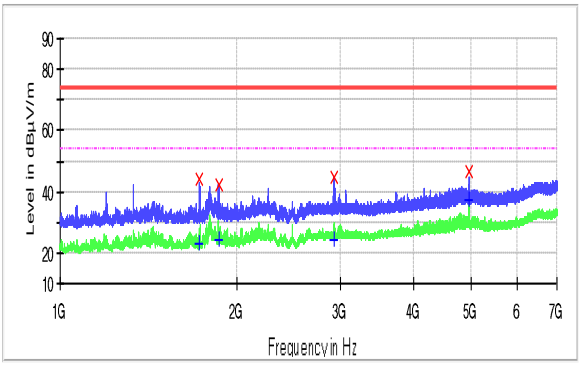
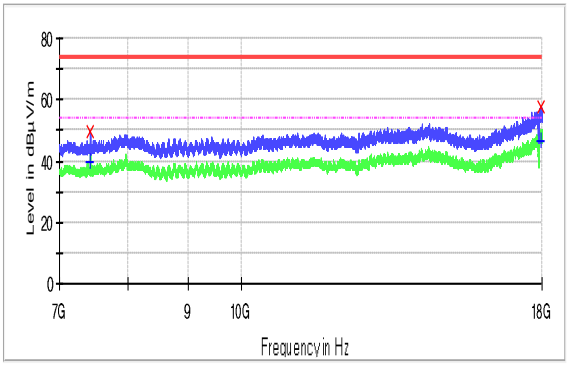
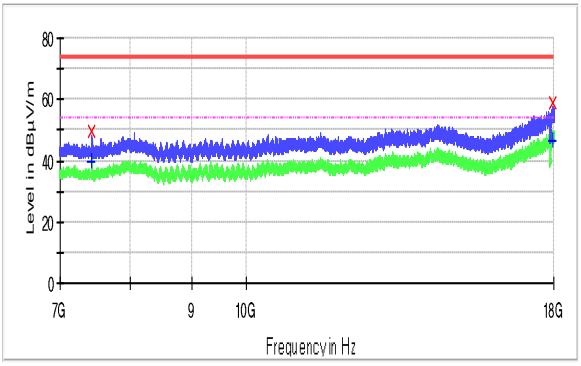
PK

Frequency (MHz)	MaxPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
1252.300000	41.7	H	-19.1	32.3	74.0
1462.300000	38.3	H	-18.4	35.7	74.0
2924.800000	43.1	H	-14.7	31.0	74.0
4882.300000	44.2	H	-10.7	29.8	74.0
7322.781250	49.9	H	-5.9	24.1	74.0
17976.625000	57.7	H	13.0	16.3	74.0
1727.200000	44.3	V	-18.5	29.7	74.0
2929.900000	46.5	V	-14.7	27.5	74.0
4882.000000	43.4	V	-10.7	30.6	74.0
6367.300000	47.1	V	-7.9	26.9	74.0
7323.125000	49.1	V	-5.9	25.0	74.0
17984.875000	57.5	V	13.1	16.5	74.0

AV

Frequency (MHz)	Average (dBµV/m)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
1252.300000	20.5	H	-19.1	33.5	54.0
1462.300000	20.5	H	-18.4	33.5	54.0
2924.800000	23.8	H	-14.7	30.2	54.0
4882.300000	29.4	H	-10.7	24.7	54.0
7322.781250	38.3	H	-5.9	15.7	54.0
17976.625000	46.5	H	13.0	7.5	54.0
1727.200000	22.0	V	-18.5	32.0	54.0
2929.900000	24.4	V	-14.7	29.6	54.0
4882.000000	33.7	V	-10.7	20.3	54.0
6367.300000	30.4	V	-7.9	23.6	54.0
7323.125000	38.2	V	-5.9	15.8	54.0
17984.875000	46.3	V	13.1	7.7	54.0

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

30MHz to 1GHz H	30MHz to 1GHz V
	
1GHz to 7GHz H	**1GHz to 7GHz V**
	
7GHz to 18GHz H	**7GHz to 18GHz V**
	

Limit and Margin

QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
30.727500	27.7	H	24.5	12.3	40.0
112.328750	21.7	H	18.8	21.8	43.5
311.785000	29.0	H	20.6	17.0	46.0
554.527500	30.1	H	26.7	15.9	46.0
599.875000	30.7	H	26.9	15.3	46.0
861.047500	33.2	H	28.9	12.8	46.0
32.910000	26.7	V	23.5	13.3	40.0
106.630000	21.5	V	18.4	22.0	43.5
259.526250	23.8	V	20.7	22.2	46.0
586.658750	30.4	V	26.7	15.6	46.0
718.821250	31.2	V	27.2	14.8	46.0
878.871250	33.3	V	28.7	12.7	46.0

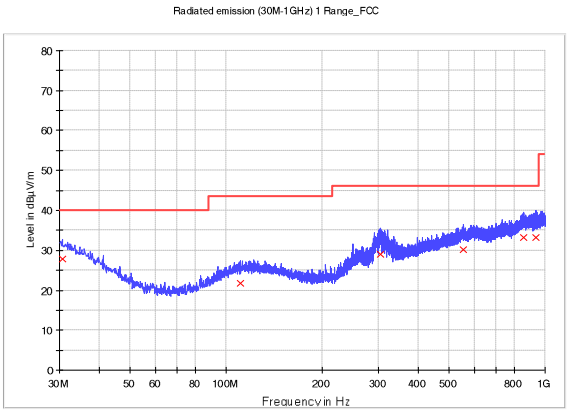
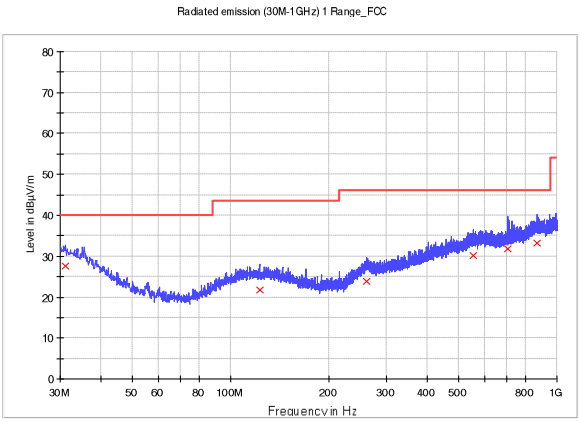
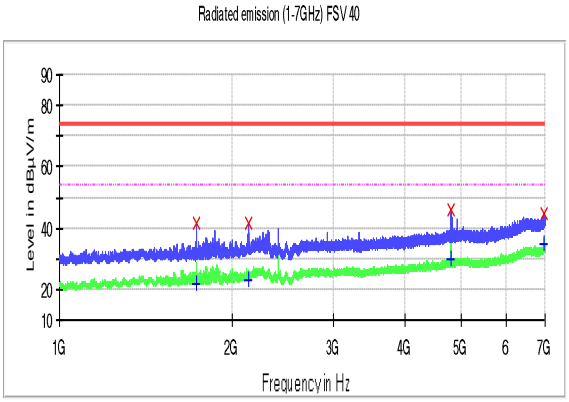
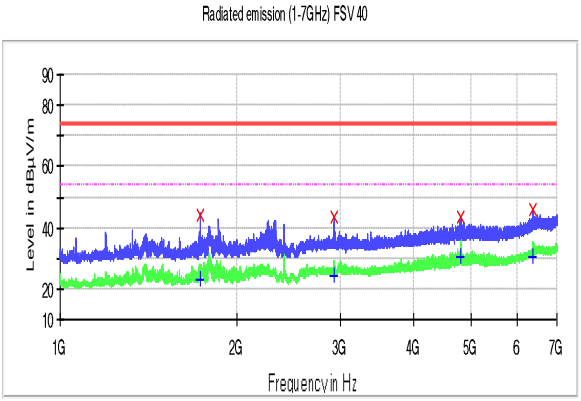
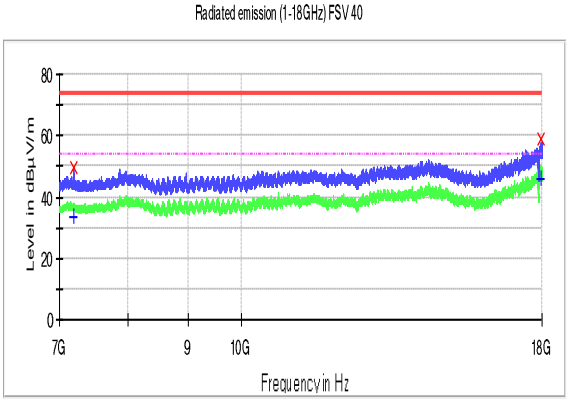
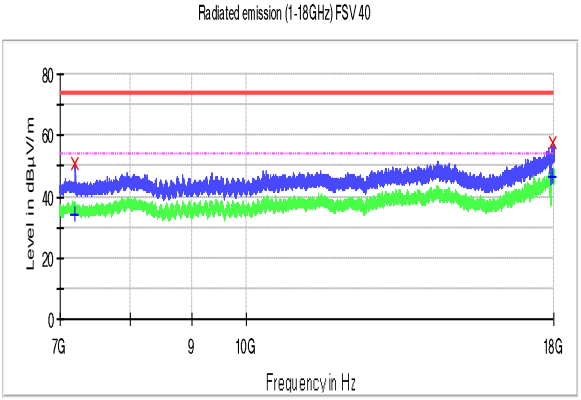
PK

Frequency (MHz)	MaxPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
1064.200000	34.9	H	-19.9	39.1	74.0
1374.700000	33.8	H	-18.4	40.2	74.0
4960.300000	43.7	H	-10.6	30.3	74.0
6992.800000	44.5	H	-5.9	29.5	74.0
7439.312500	49.6	H	-5.4	24.4	74.0
17967.687500	57.4	H	12.8	16.6	74.0
1726.300000	43.9	V	-18.5	30.1	74.0
1863.400000	42.2	V	-18.1	31.8	74.0
2924.500000	44.7	V	-14.7	29.3	74.0
4959.700000	46.9	V	-10.6	27.2	74.0
7439.656250	49.8	V	-5.4	24.2	74.0
17970.781250	58.8	V	12.9	15.2	74.0

AV

Frequency (MHz)	Average (dBµV/m)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
1064.200000	20.0	H	-19.9	34.0	54.0
1374.700000	21.2	H	-18.4	32.8	54.0
4960.300000	30.7	H	-10.6	23.4	54.0
6992.800000	32.0	H	-5.9	22.0	54.0
7439.312500	39.8	H	-5.4	14.2	54.0
17967.687500	46.5	H	12.8	7.5	54.0
1726.300000	23.0	V	-18.5	31.0	54.0
1863.400000	24.4	V	-18.1	29.6	54.0
2924.500000	24.2	V	-14.7	29.8	54.0
4959.700000	37.5	V	-10.6	16.5	54.0
7439.656250	39.5	V	-5.4	14.5	54.0
17970.781250	46.3	V	12.9	7.7	54.0

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

30MHz to 1GHz H	30MHz to 1GHz V
	
1GHz to 7GHz H	**1GHz to 7GHz V**
	
7GHz to 18GHz H	**7GHz to 18GHz V**
	

Limit and Margin

QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
30.606250	27.8	H	24.5	12.2	40.0
110.995000	21.7	H	18.7	21.8	43.5
303.903750	29.0	H	20.3	17.0	46.0
555.982500	30.2	H	26.7	15.9	46.0
855.348750	33.3	H	28.9	12.7	46.0
935.131250	33.1	H	28.9	12.9	46.0
31.212500	27.5	V	24.3	12.5	40.0
122.513750	21.9	V	18.8	21.6	43.5
261.830000	23.8	V	20.9	22.2	46.0
553.193750	30.2	V	26.7	15.8	46.0
708.757500	31.8	V	26.9	14.3	46.0
869.292500	33.2	V	28.7	12.8	46.0

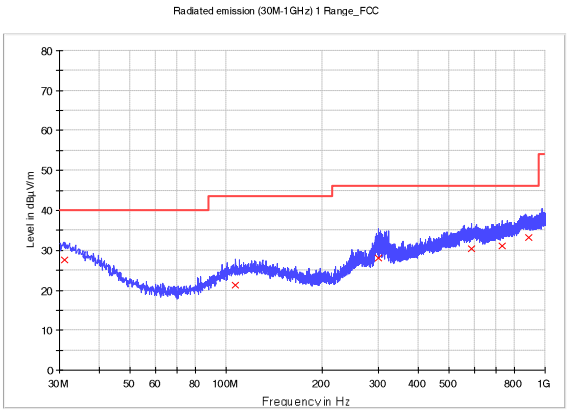
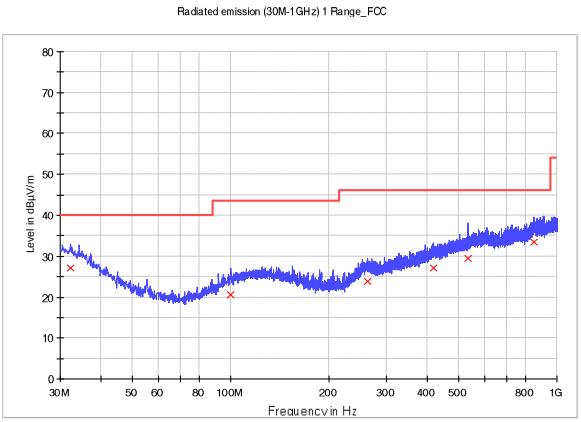
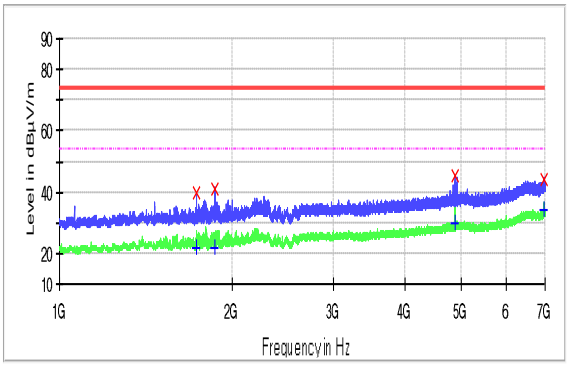
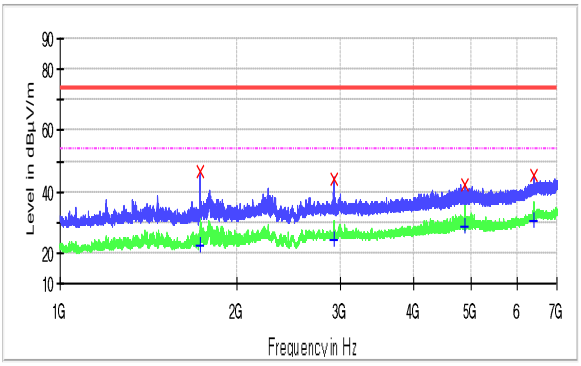
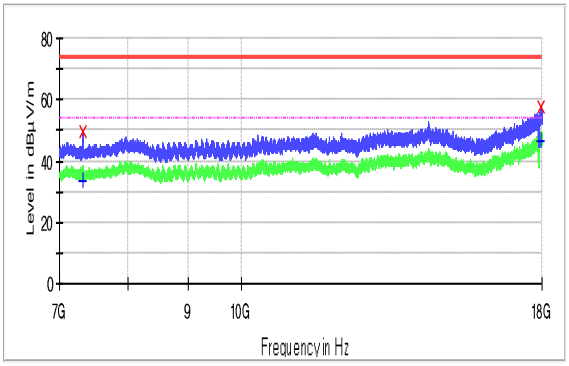
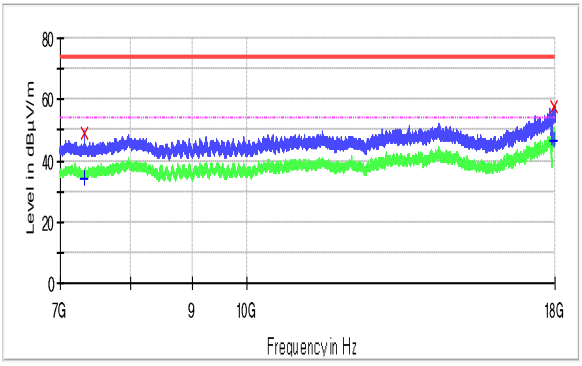
PK

Frequency (MHz)	MaxPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
1730.800000	41.3	H	-18.5	32.7	74.0
2133.100000	41.8	H	-16.2	32.3	74.0
4802.200000	45.9	H	-10.8	28.1	74.0
6971.200000	44.8	H	-6.2	29.2	74.0
7205.218750	49.5	H	-5.4	24.5	74.0
17953.593750	58.7	H	12.5	15.3	74.0
1733.200000	44.0	V	-18.5	30.0	74.0
2923.600000	43.6	V	-14.7	30.4	74.0
4802.200000	43.3	V	-10.8	30.7	74.0
6374.800000	45.8	V	-7.8	28.2	74.0
7205.906250	50.7	V	-5.4	23.3	74.0
17975.250000	57.7	V	12.9	16.3	74.0

AV

Frequency (MHz)	Average (dBµV/m)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
1730.800000	21.7	H	-18.5	32.3	54.0
2133.100000	23.2	H	-16.2	30.9	54.0
4802.200000	29.6	H	-10.8	24.4	54.0
6971.200000	35.0	H	-6.2	19.0	54.0
7205.218750	33.4	H	-5.4	20.6	54.0
17953.593750	45.6	H	12.5	8.4	54.0
1733.200000	22.9	V	-18.5	31.2	54.0
2923.600000	24.0	V	-14.7	30.0	54.0
4802.200000	30.2	V	-10.8	23.8	54.0
6374.800000	30.7	V	-7.8	23.3	54.0
7205.906250	34.3	V	-5.4	19.7	54.0
17975.250000	46.5	V	12.9	7.5	54.0

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

30MHz to 1GHz H	30MHz to 1GHz V
	
1GHz to 7GHz H	**1GHz to 7GHz V**
	
7GHz to 18GHz H	**7GHz to 18GHz V**
	

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	12.5	40.0
107.115000	21.4	H	18.5	22.1	43.5
299.660000	28.1	H	20.2	17.9	46.0
587.871250	30.4	H	26.7	15.6	46.0
731.067500	31.1	H	27.5	14.9	46.0
888.450000	33.2	H	28.7	12.8	46.0
32.182500	27.1	V	23.8	12.9	40.0
100.203750	20.6	V	17.6	22.9	43.5
261.951250	23.9	V	20.9	22.1	46.0
419.697500	27.1	V	23.9	18.9	46.0
533.066250	29.4	V	25.9	16.6	46.0
851.590000	33.3	V	29.0	12.7	46.0

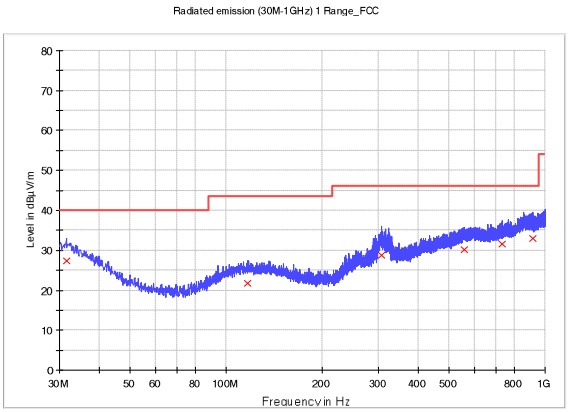
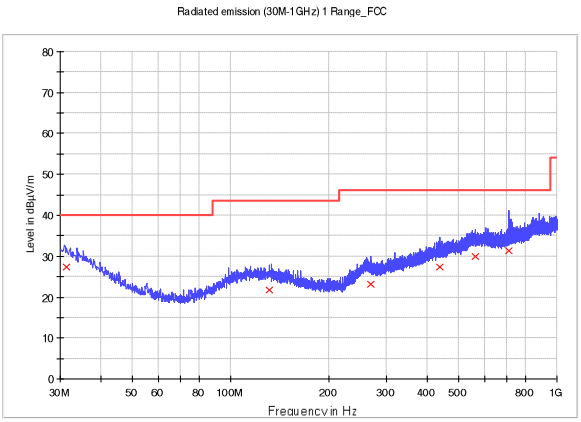
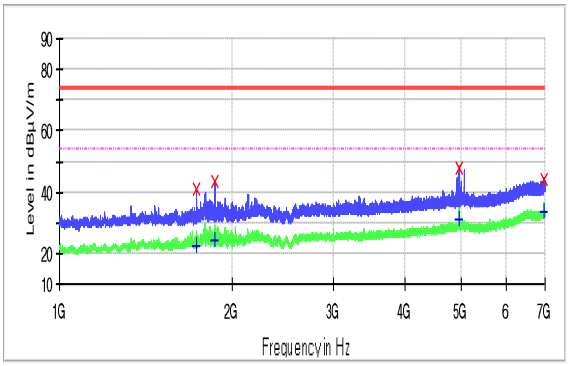
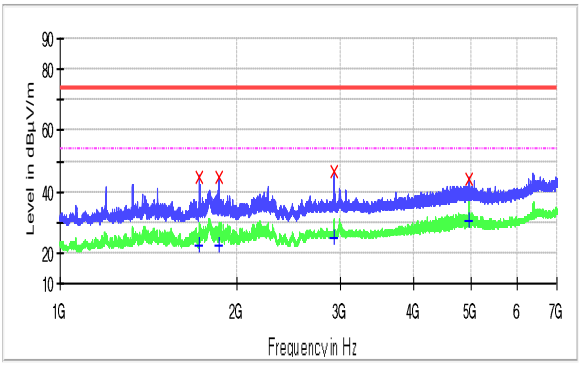
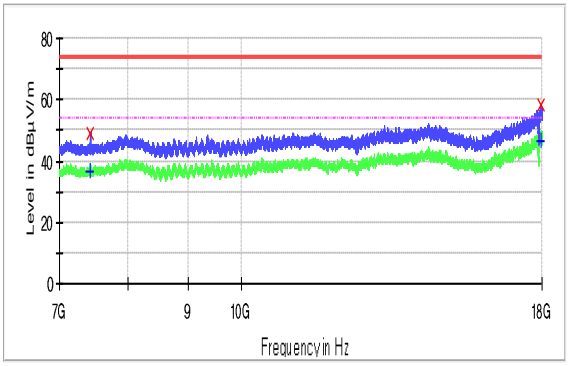
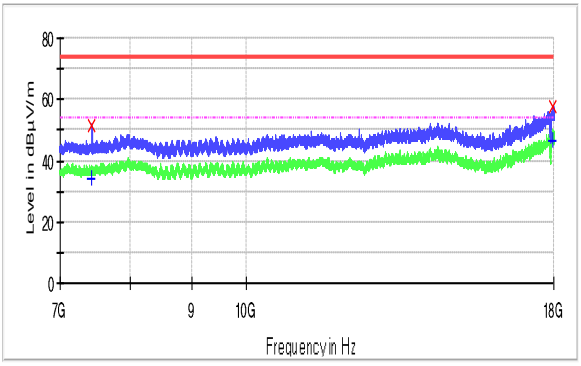
PK

Frequency (MHz)	MaxPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
1732.900000	39.7	H	-18.5	34.3	74.0
1864.600000	41.3	H	-18.1	32.8	74.0
4880.200000	45.1	H	-10.7	29.0	74.0
6971.800000	44.2	H	-6.2	29.8	74.0
7323.125000	49.6	H	-5.9	24.5	74.0
17977.656250	57.4	H	13.0	16.6	74.0
1732.600000	46.4	V	-18.5	27.6	74.0
2925.100000	44.0	V	-14.7	30.0	74.0
4879.900000	42.2	V	-10.7	31.8	74.0
6388.300000	45.2	V	-7.7	28.8	74.0
7323.468750	49.0	V	-5.9	25.0	74.0
17967.343750	57.5	V	12.8	16.5	74.0

AV

Frequency (MHz)	Average (dBµV/m)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
1732.900000	21.6	H	-18.5	32.4	54.0
1864.600000	21.7	H	-18.1	32.3	54.0
4880.200000	30.1	H	-10.7	23.9	54.0
6971.800000	34.3	H	-6.2	19.7	54.0
7323.125000	33.6	H	-5.9	20.4	54.0
17977.656250	46.5	H	13.0	7.6	54.0
1732.600000	22.2	V	-18.5	31.8	54.0
2925.100000	24.2	V	-14.7	29.8	54.0
4879.900000	28.3	V	-10.7	25.7	54.0
6388.300000	30.3	V	-7.7	23.7	54.0
7323.468750	34.0	V	-5.9	20.0	54.0
17967.343750	46.5	V	12.8	7.5	54.0

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

30MHz to 1GHz H	30MHz to 1GHz V
	
1GHz to 7GHz H	**1GHz to 7GHz V**
	
7GHz to 18GHz H	**7GHz to 18GHz V**
	

Limit and Margin

QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
31.576250	27.4	H	24.1	12.7	40.0
116.451250	21.8	H	18.9	21.7	43.5
306.207500	28.7	H	20.4	17.3	46.0
556.952500	30.1	H	26.7	15.9	46.0
732.280000	31.5	H	27.5	14.5	46.0
915.367500	33.0	H	28.7	13.0	46.0
31.455000	27.4	V	24.1	12.6	40.0
131.365000	21.7	V	18.6	21.8	43.5
269.105000	23.2	V	20.2	22.8	46.0
438.370000	27.3	V	24.1	18.7	46.0
562.893750	30.0	V	26.5	16.0	46.0
710.091250	31.3	V	26.9	14.7	46.0

PK

Frequency (MHz)	MaxPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
1729.300000	41.0	H	-18.5	33.0	74.0
1861.900000	43.7	H	-18.1	30.4	74.0
4957.900000	48.1	H	-10.6	25.9	74.0
6970.900000	44.1	H	-6.2	29.9	74.0
7440.000000	49.2	H	-5.4	24.9	74.0
17969.406250	58.2	H	12.8	15.9	74.0
1726.300000	44.5	V	-18.5	29.5	74.0
1865.800000	44.5	V	-18.1	29.5	74.0
2930.500000	46.3	V	-14.7	27.7	74.0
4957.900000	44.1	V	-10.6	29.9	74.0
7440.343750	51.7	V	-5.4	22.3	74.0
17977.312500	57.5	V	13.0	16.5	74.0

AV

Frequency (MHz)	Average (dBµV/m)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
1729.300000	22.4	H	-18.5	31.6	54.0
1861.900000	24.3	H	-18.1	29.7	54.0
4957.900000	31.0	H	-10.6	23.0	54.0
6970.900000	33.7	H	-6.2	20.4	54.0
7440.000000	36.6	H	-5.4	17.4	54.0
17969.406250	46.5	H	12.8	7.5	54.0
1726.300000	22.1	V	-18.5	31.9	54.0
1865.800000	22.2	V	-18.1	31.8	54.0
2930.500000	24.8	V	-14.7	29.2	54.0
4957.900000	30.3	V	-10.6	23.8	54.0
7440.343750	34.3	V	-5.4	19.7	54.0
17977.312500	46.5	V	13.0	7.5	54.0

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