



FCC PART 15C TEST REPORT

No.25T04Z100757-020

for

TCL Communication Ltd.

GSM/UMTS/LTE/NR Mobile phone

T951P

FCC ID: 2ACCJH188

with

Hardware Version: 05

Software Version: 9ESH

Issued Date: 2025-06-25

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of CTTL.

Test Laboratory:

CTTL, Telecommunication Technology Labs, CAICT

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
25T04Z100757-020	Rev.0	1st edition	2025-06-25

Note: the latest revision of the test report supersedes all previous version.

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1. Test Laboratory

1.1. Introduction &Accreditation

Telecommunication Technology Labs, CAICT is an ISO/IEC 17025:2017 accredited test laboratory under American Association for Laboratory Accreditation (A2LA) with lab code 7049.01, and is also an FCC accredited test laboratory (CN1349), and ISED accredited test laboratory (CAB identifier:CN0066). The detail accreditation scope can be found on A2LA website

1.2. Testing Location

Conducted testing Location:CTTL(Gaolizhang Road)

Address: Cuihu Cloud Center, No.1, Gaolizhang Road, Wenquan,
Haidian District, Beijing, China

Radiated testing Location: CTTL(huayuan North Road)

Address: No. 52, Huayuan North Road, Haidian District, Beijing,
P. R. China100191

1.3. Testing Environment

Normal Temperature: 20-27℃
Relative Humidity: 20-50%

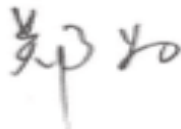
1.4. Project data

Testing Start Date: 2025-04-28
Testing End Date: 2025-06-25

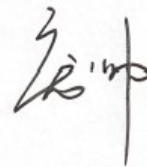
1.5. Signature



Yao Xingyu
(Prepared this test report)



Zheng Wei
(Reviewed this test report)



Pang Shuai
(Approved this test report)

2. Client Information

2.1. Applicant Information

Company Name: TCL Communication Ltd.
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Park, Shatin, NT, Hong Kong
City: Hong Kong
Postal Code: /
Country: China
Contact Person: Ting Wang
Contact Email: ting.wang.hz@tcl.com
Telephone: +86 752 2639091
Fax: 0086-755-36612000-81722

2.2. Manufacturer Information

Company Name: TCL Communication Ltd.
Address/Post: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science
Park, Shatin, NT, Hong Kong
City: Hong Kong
Postal Code: /
Country: China
Contact Person: Ting Wang
Contact Email: ting.wang.hz@tcl.com
Telephone: +86 752 2639091
Fax: 0086-755-36612000-81722

3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Description	GSM/UMTS/LTE/NR Mobile phone
Model Name	T951P
FCC ID	2ACCJH188
Frequency Band	ISM 2400MHz~2483.5MHz
Type of Modulation	GFSK/ $\pi/4$ DQPSK/8DPSK
Number of Channels	79
Power Supply	3.85V DC by Battery
Antenna gain	-5.3dBi

3.2. Internal Identification of EUT

EUT ID*	SN or IMEI	HW Version	SW Version	Date of receipt
UT14a	356448870204311/ 356448870204378	05	9ESH	2025-04-28
UT25a	356448870204451/ 356448870204568	05	9ESH	2025-05-13

*EUT ID: is used to identify the test sample in the lab internally.

3.3. Internal Identification of AE

AE ID*	Description	Note	Manufacturer
AE1	Battery	TLp050D7	VEKEN
AE2	Charger	QC16US	PUAN
AE2-2	Charger	QC16EU	BaiJunDa
AE3-1	USB cable	CDA0000308C1	JUWEI
AE3-1	USB cable	CDA0000305C1	JUWEI

*AE ID: is used to identify the test sample in the lab internally.

3.4. Normal Accessory setting

Fully charged battery is used during the test.

3.5. General Description

The Equipment Under Test (EUT) is a model of GSM/UMTS/LTE/NR Mobile phone with integrated antenna. It consists of normal options: lithium battery and USB cable. Manual and specifications of the EUT were provided to fulfill the test. Samples undergoing test were selected by the Client.

4. Reference Documents

4.1. Documents supplied by applicant

EUT parameters, referring to Annex A for detailed information, is supplied by the client or manufacturer, which is the basis of testing.

4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
FCC Part15	FCC CFR 47, Part 15, Subpart C:	2024
	15.205 Restricted bands of operation;	
	15.209 Radiated emission limits, general requirements;	
ANSI C63.10	15.247 Operation within the bands 902–928MHz, 2400–2483.5 MHz, and 5725–5850 MHz.	June,2013
	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices	

5. Test Results

5.1. Summary of Test Results

Abbreviations used in this clause:

P Pass, The EUT complies with the essential requirements in the standard.

F Fail, The EUT does not comply with the essential requirements in the standard

NA Not Applicable, The test was not applicable

NP Not Performed, The test was not performed by CTTL

SUMMARY OF MEASUREMENT RESULTS	Sub-clause	Verdict
Peak Output Power	15.247 (b)(1)	P
Frequency Band Edges- Conducted	15.247 (d)	P
Transmitter Spurious Emission - Conducted	15.247 (d)	P
Radiated Unwanted Emission	15.247, 15.205, 15.209	P
Time of Occupancy (Dwell Time)	15.247 (a) (1)(iii)	P
20dB Bandwidth	15.247 (a)(1)	NA
Carrier Frequency Separation	15.247 (a)(1)	P
Number of hopping channels	15.247 (a)(iii)	P
AC Powerline Conducted Emission	15.107, 15.207	P
Antenna Requirement	15.203	P

Please refer to **ANNEX A** for detail.

The measurement is made according to ANSI C63.10.

5.2. Statements

CTTL has evaluated the test cases requested by the applicant /manufacturer as listed in section 5.1 of this report for the EUT specified in section 3 according to the standards or reference documents listed in section 4.2

6. Test Facilities Utilized

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	Vector Signal Analyzer	FSW67	104051	Rohde & Schwarz	1 year	2026-06-09
2	Base Station Simulator	CMW500	159384	Rohde & Schwarz	1 year	2025-11-10
3	LISN	ENV216	101200	Rohde & Schwarz	1 year	2026-06-05
4	Test Receiver	ESCI	100344	Rohde & Schwarz	1 year	2026-04-01
5	Bluetooth Tester	CBT	101042	R&S	1 year	2026-01-20
6	Shielding Room	S81	/	ETS-Lindgren	/	/

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	Test Receiver	ESW44	103023	Rohde & Schwarz	1 year	2026-05-07
2	EMI Antenna	VULB9163	01222	Schwarzbeck	1 year	2025-09-11
3	EMI Antenna	3115	6914	ETS-Lindgren	1 year	2026-03-31
4	Bluetooth Tester	CBT	101042	R&S	1 year	2026-01-20

Test software information (Huayuan North road)		
Test Item	Software	Manufacturer
AC Powerline Conducted Emission	EMC32 V8.53.0	R&S
Radiated Unwanted Emission	EMC32 V11.50.00	R&S

7. Measurement Uncertainty

7.1. Peak Output Power - Conducted

Measurement Uncertainty:

Measurement Uncertainty (k=2)	0.66dB
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7.2. Frequency Band Edges - Conducted

Measurement Uncertainty:

Measurement Uncertainty (k=2)	0.66dB
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7.3. Transmitter Spurious Emission - Conducted

Measurement Uncertainty:

Frequency Range	Uncertainty (k=2)
30 MHz ~ 8 GHz	1.22dB
8 GHz ~ 12.75 GHz	1.51dB
12.7GHz ~ 26 GHz	1.51dB

7.4. Transmitter Spurious Emission - Radiated

Measurement Uncertainty:

Frequency Range	Uncertainty(dBm) (k=2)
9kHz-30MHz	/
$30\text{MHz} \leq f \leq 1\text{GHz}$	4.72
$1\text{GHz} \leq f \leq 18\text{GHz}$	4.84
$18\text{GHz} \leq f \leq 40\text{GHz}$	5.12

7.5. Time of Occupancy (Dwell Time)

Measurement Uncertainty:

Measurement Uncertainty (k=2)	0.88ms
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7.6. 20dB Bandwidth

Measurement Uncertainty:

Measurement Uncertainty (k=2)	61.936Hz
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7.7. Carrier Frequency Separation

Measurement Uncertainty:

Measurement Uncertainty (k=2)	61.936Hz
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7.8. AC Powerline Conducted Emission

Measurement Uncertainty:

Measurement Uncertainty (k=2)	3.08dB
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ANNEX A: EUT parameters

Disclaimer: The antenna gain provided by the client may affect the validity of the measurement results in this report, and the client shall bear the impact and consequences arising therefrom.

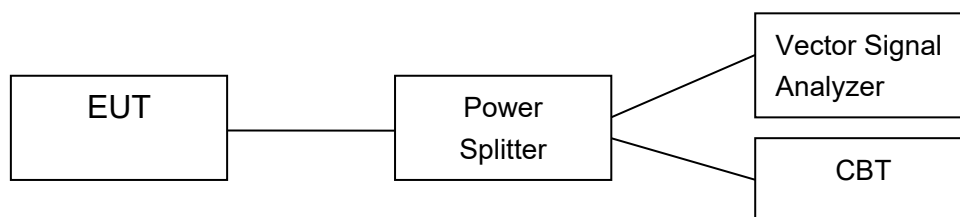
ANNEX B: Detailed Test Results

B.1. Measurement Method

B.1.1. Conducted Measurements

The measurement is made according to ANSI C63.10.

- 1). Connect the EUT to the test system correctly.
- 2). Set the EUT to the required work mode (Transmitter, receiver or transmitter & receiver).
- 3). Set the EUT to the required channel.
- 4). Set the EUT hopping mode (hopping or hopping off).
- 5). Set the spectrum analyzer to start measurement.
- 6). Record the values. Vector Signal Analyzer



B.1.2. Radiated Emission Measurements

The measurement is made according to ANSI C63.10

The radiated emission test is performed in semi-anechoic chamber. The EUT was placed on a non-conductive table with 80cm above the ground plane for measurement below 1GHz and 1.5m above the ground plane for measurement above 1GHz. The measurement antenna was placed at a distance of 3 meters from the EUT. The test is carried out on both vertical and horizontal polarization and only maximization result of both polarizations is kept. During the test, the turntable is rotated from 0° to 360° and the measurement antenna is moved from 1m to 4m to get the maximization result. The maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

B.2. Peak Output Power

B.2.1. Peak Output Power – Conducted

Method of Measurement: See ANSI C63.10-clause 7.8.5

a) Use the following spectrum analyzer settings:

- Span: 6MHz
- RBW: 3MHz
- VBW: 3MHz
- Sweep time: 2.5ms
- Detector function: peak
- Trace: max hold

b) Allow trace to stabilize.

c) Use the marker-to-peak function to set the marker to the peak of the emission.

d) The indicated level is the peak output power.

Measurement Limit:

Standard	Limits	
FCC Part 15.247 (b)(1)	Bandwidth $\leq$ 1MHz	30dBm (1W)
	Bandwidth $>$ 1MHz	21dBm (125mW)

Measurement Results:

For GFSK

Channel	Ch 0 2402 MHz	Ch 39 2441 MHz	Ch 78 2480 MHz	Conclusion
Peak Conducted Output Power (dBm)	9.87	9.25	9.94	P

For $\pi/4$ DQPSK

Channel	Ch 0 2402 MHz	Ch 39 2441 MHz	Ch 78 2480 MHz	Conclusion
Peak Conducted Output Power (dBm)	9.25	8.70	9.26	P

For 8DPSK

Channel	Ch 0 2402 MHz	Ch 39 2441 MHz	Ch 78 2480 MHz	Conclusion
Peak Conducted Output Power (dBm)	9.60	9.07	9.67	P

Conclusion: PASS

B.2.2. E.I.R.P.

The radiated E.I.R.P. is listed below:

Antenna gain = -5.3dBi

For GFSK

Channel	Ch 0 2402 MHz	Ch 39 2441 MHz	Ch 78 2480 MHz	Conclusion
E.I.R.P (dBm)	4.57	3.95	4.64	P

For $\pi/4$ DQPSK

Channel	Ch 0 2402 MHz	Ch 39 2441 MHz	Ch 78 2480 MHz	Conclusion
E.I.R.P (dBm)	3.95	3.40	3.96	P

For 8DPSK

Channel	Ch 0 2402 MHz	Ch 39 2441 MHz	Ch 78 2480 MHz	Conclusion
E.I.R.P (dBm)	4.30	3.77	4.37	P

Note: E.I.R.P. are calculated with the antenna gain.

Conclusion: PASS

B.3. Frequency Band Edges – Conducted

Method of Measurement: See ANSI C63.10-clause 7.8.6

Connect the spectrum analyzer to the EUT using an appropriate RF cable connected to the EUT output. Configure the spectrum analyzer settings as described below (be sure to enter all losses between the unlicensed wireless device output and the spectrum analyzer).

- Span: 10 MHz
- Resolution Bandwidth: 100 kHz
- Video Bandwidth: 300 kHz
- Sweep Time: Auto
- Detector: Peak
- Trace: max hold

Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel.

Observe the stored trace and measure the amplitude delta between the peak of the fundamental and the peak of the band-edge emission. This is not an absolute field strength measurement; it is only a relative measurement to determine the amount by which the emission drops at the band edge relative to the highest fundamental emission level.

Measurement Limit:

Standard	Limit (dBc)
FCC 47 CFR Part 15.247 (d)	< -20

Measurement Result:

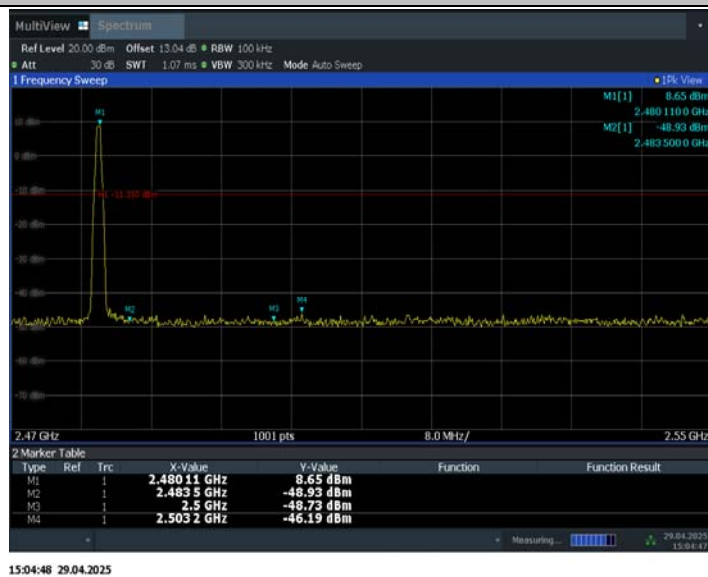
TestMode	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Low	2402	9.19	-45.92	≤ -10.81	PASS
	High	2480	8.65	-46.19	≤ -11.35	PASS
	Low	Hop_2402	8.88	-45.93	≤ -11.12	PASS
	High	Hop_2480	8.57	-46.36	≤ -11.43	PASS
2DH5	Low	2402	6.36	-46.21	≤ -13.64	PASS
	High	2480	5.19	-45.85	≤ -14.81	PASS
	Low	Hop_2402	5.83	-45.74	≤ -14.17	PASS
	High	Hop_2480	4.49	-46.43	≤ -15.51	PASS
3DH5	Low	2402	5.80	-45.33	≤ -14.2	PASS
	High	2480	5.69	-45.69	≤ -14.31	PASS
	Low	Hop_2402	5.16	-46.16	≤ -14.84	PASS
	High	Hop_2480	4.10	-46.2	≤ -15.9	PASS

Test graphs as below

DH5_Low_2402



DH5_High_2480



DH5_Low_Hop_2402



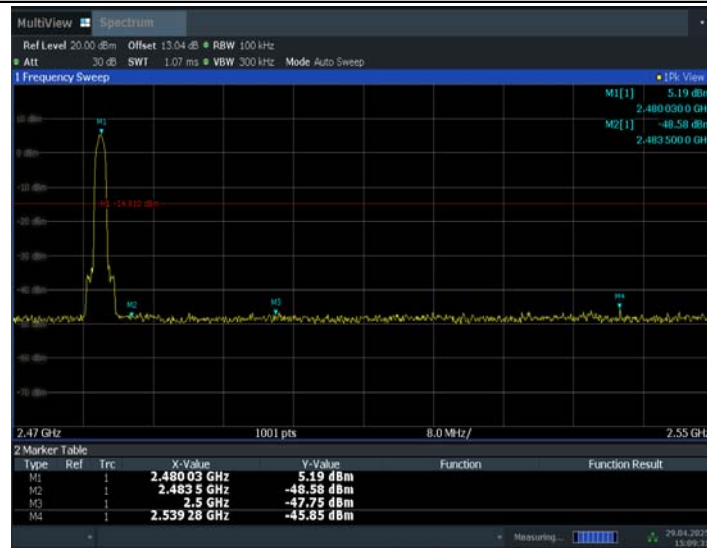
DH5_High_Hop_2480



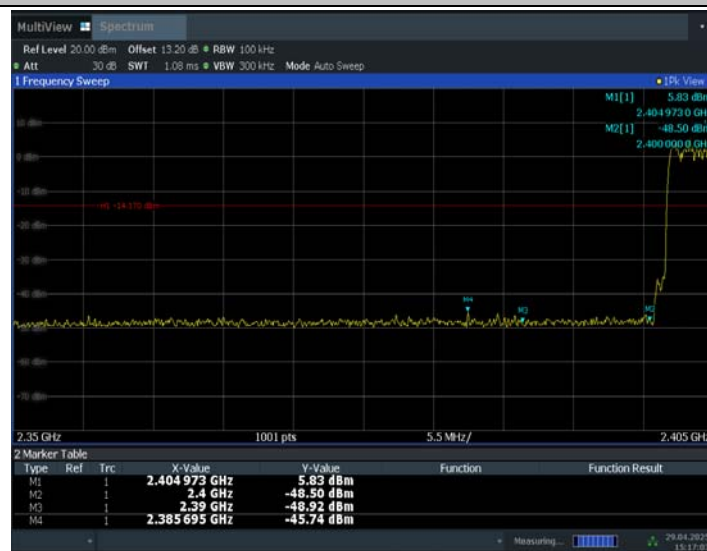
2DH5_Low_2402



2DH5_High_2480



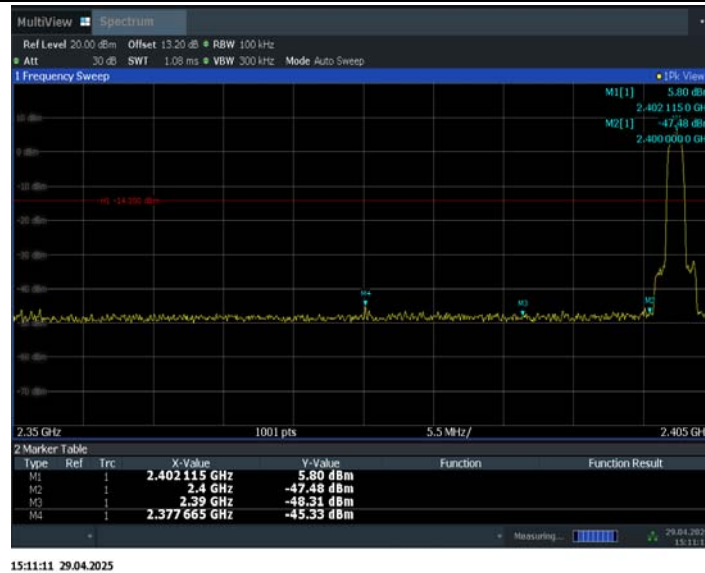
2DH5_Low_Hop_2402



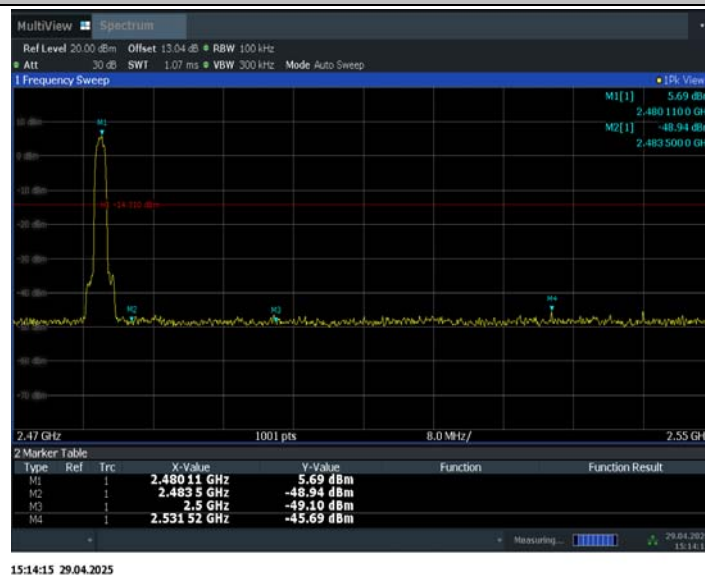
2DH5_High_Hop_2480



3DH5_Low_2402



3DH5_High_2480

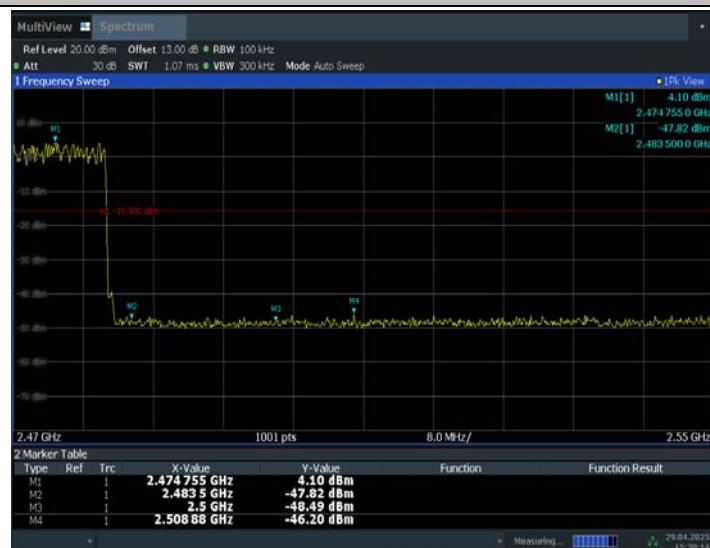


3DH5_Low_Hop_2402



15:18:45 29.04.2025

3DH5_High_Hop_2480



15:20:14 29.04.2025

Conclusion: PASS

B.4. Transmitter Spurious Emission - Conducted

Method of Measurement: See ANSI C63.10-clause 7.8.8

Measurement Procedure – Reference Level

1. Set the RBW = 100 kHz.
2. Set the VBW = 300 kHz.
3. Set the span to 5-30 % greater than the EBW.
4. Detector = peak.
5. Sweep time = auto couple.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.
8. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW. Next, determine the power in 100 kHz band segments outside of the authorized frequency band using the following measurement:

Measurement Procedure - Unwanted Emissions

1. Set RBW = 100 kHz.
2. Set VBW = 300 kHz.
3. Set span to encompass the spectrum to be examined.
4. Detector = peak.
5. Trace Mode = max hold.
6. Sweep = auto couple.
7. Allow the trace to stabilize (this may take some time, depending on the extent of the span).

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified above.

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247 (d)	20dB below peak output power in 100 kHz bandwidth

Measurement Results:

TestMode	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	2402	Reference	8.75	8.75	---	PASS

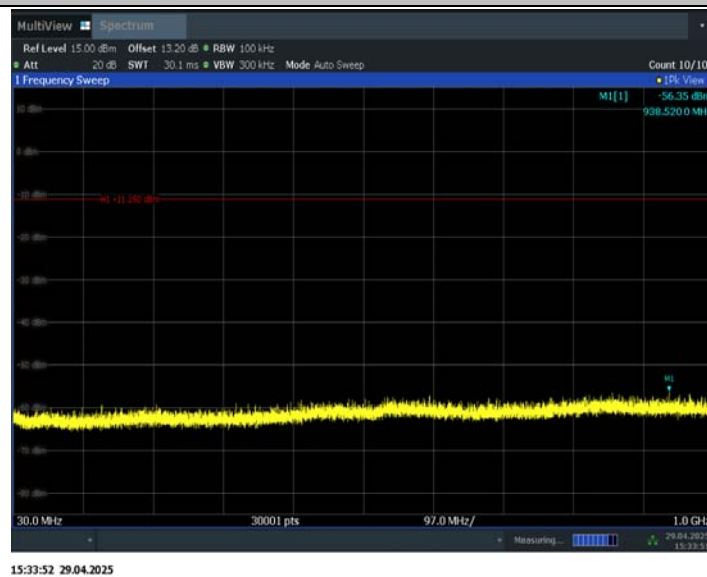
		30~1000	8.75	-56.35	≤-11.25	PASS
		1000~26500	8.75	-43.54	≤-11.25	PASS
		2441	Reference	7.53	7.53	---
	30~1000		7.53	-56.76	≤-12.47	PASS
	1000~26500		7.53	-42.94	≤-12.47	PASS
	2480	Reference	8.18	8.18	---	PASS
		30~1000	8.18	-56.61	≤-11.82	PASS
		1000~26500	8.18	-43.45	≤-11.82	PASS
	2DH5	2402	Reference	4.82	4.82	---
30~1000			4.82	-56.46	≤-15.18	PASS
1000~26500			4.82	-43.44	≤-15.18	PASS
2441		Reference	3.47	3.47	---	PASS
		30~1000	3.47	-56.88	≤-16.53	PASS
		1000~26500	3.47	-44.18	≤-16.53	PASS
2480		Reference	4.13	4.13	---	PASS
		30~1000	4.13	-56.77	≤-15.87	PASS
		1000~26500	4.13	-44	≤-15.87	PASS
3DH5	2402	Reference	4.67	4.67	---	PASS
		30~1000	4.67	-55.81	≤-15.33	PASS
		1000~26500	4.67	-44.08	≤-15.33	PASS
	2441	Reference	3.83	3.83	---	PASS
		30~1000	3.83	-56.78	≤-16.17	PASS
		1000~26500	3.83	-44.41	≤-16.17	PASS
	2480	Reference	4.44	4.44	---	PASS
		30~1000	4.44	-56.42	≤-15.56	PASS
		1000~26500	4.44	-43.98	≤-15.56	PASS

Test graphs as below

DH5_2402_0~Reference



DH5_2402_30~1000



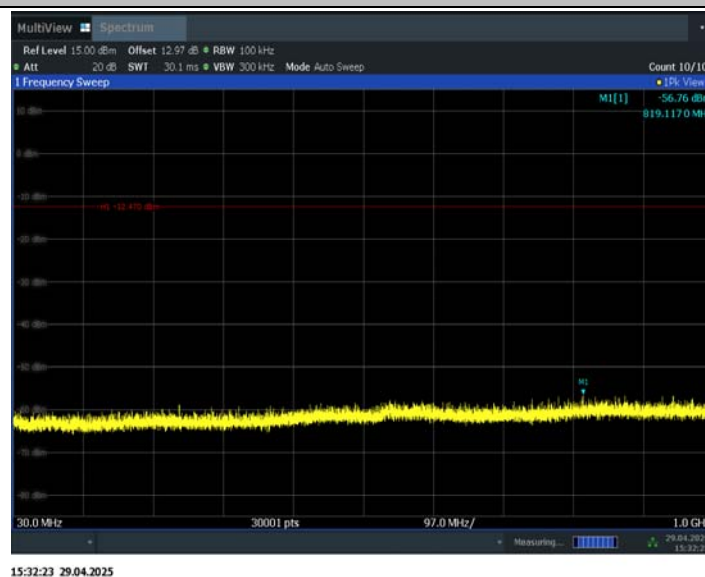
DH5_2402_1000~26500



DH5_2441_0~Reference



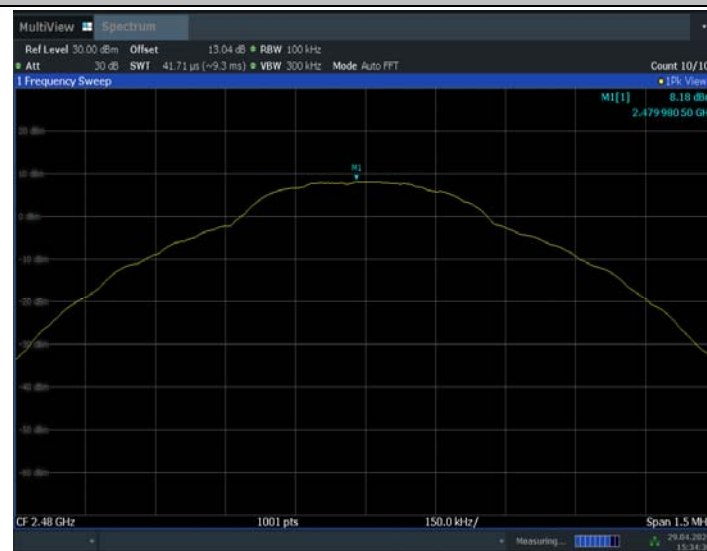
DH5_2441_30~1000



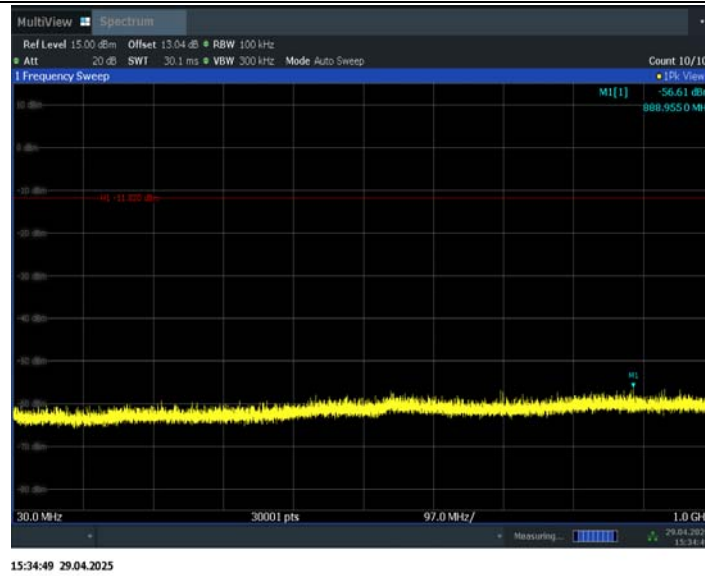
DH5_2441_1000~26500



DH5_2480_0~Reference



DH5_2480_30~1000



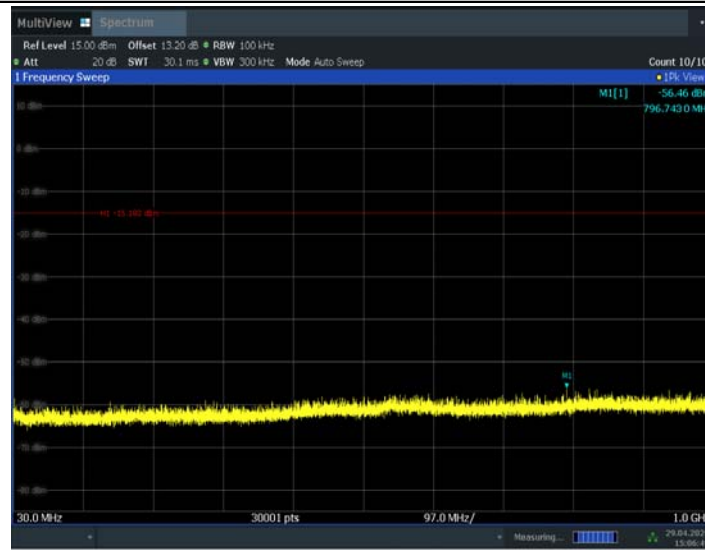
DH5_2480_1000~26500



2DH5_2402_0~Reference

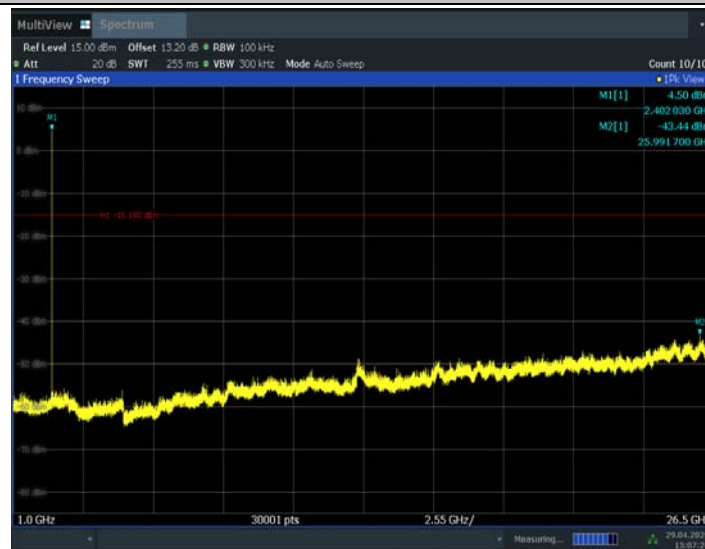


2DH5_2402_30~1000



15:06:49 29.04.2025

2DH5_2402_1000~26500

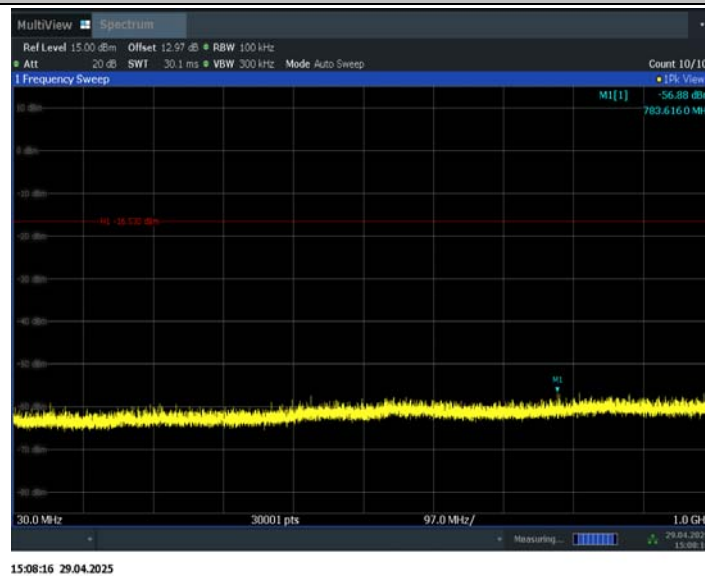


15:07:25 29.04.2025

2DH5_2441_0~Reference



2DH5_2441_30~1000



2DH5_2441_1000~26500

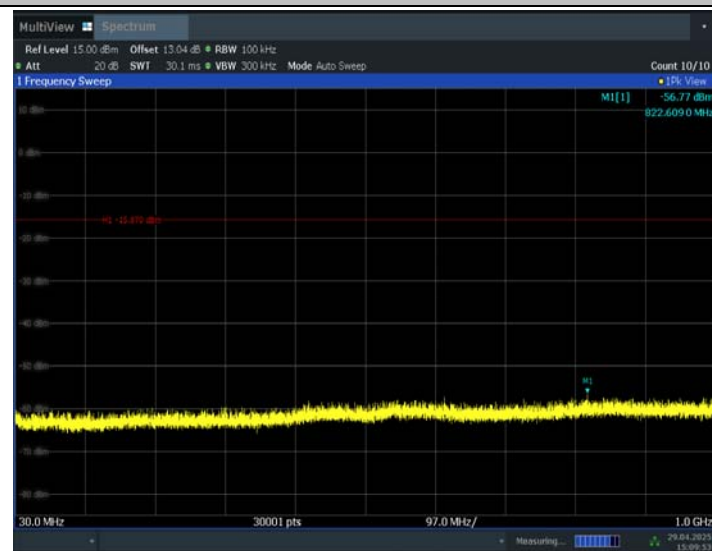


2DH5_2480_0~Reference



15:09:40 29.04.2025

2DH5_2480_30~1000



15:09:54 29.04.2025

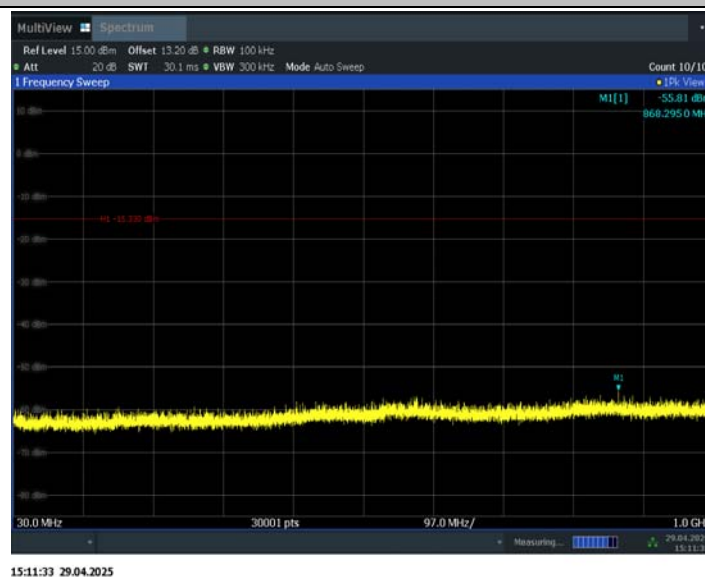
2DH5_2480_1000~26500



3DH5_2402_0~Reference



3DH5_2402_30~1000



3DH5_2402_1000~26500



3DH5_2441_0~Reference



3DH5_2441_30~1000



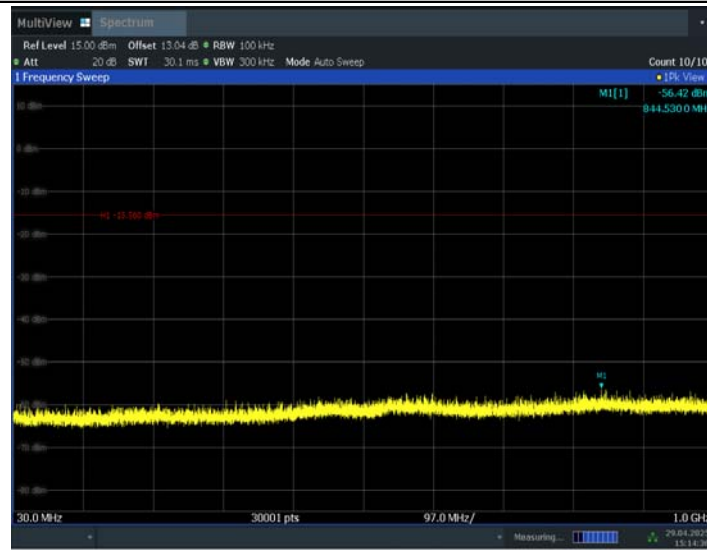
3DH5_2441_1000~26500



3DH5_2480_0~Reference

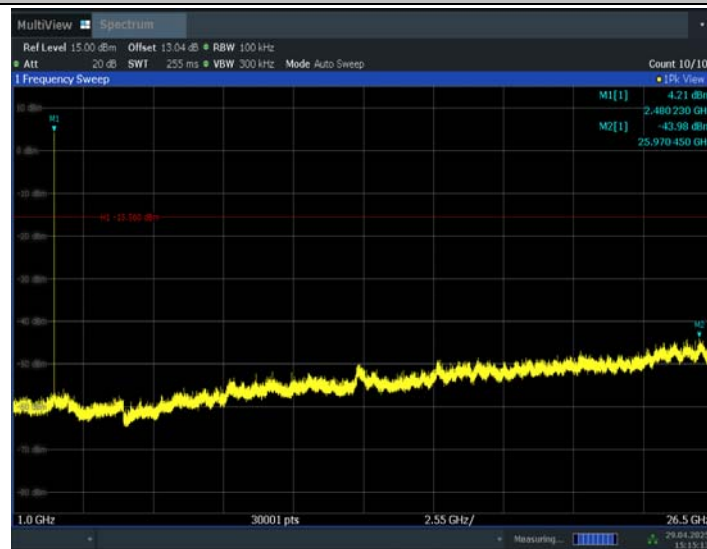


3DH5_2480_30~1000



15:14:37 29.04.2025

3DH5_2480_1000~26500



15:15:13 29.04.2025

Conclusion: PASS

B.5. Radiated Unwanted Emission

Limits

Measurement Limit

Standard	Limit
FCC 47 CFR Part 15.247, 15.205, 15.209	20dB below peak output power

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

Limit in restricted band

Frequency (MHz)	Field strength($\mu\text{V/m}$)	Measurement distance (m)
0.009 - 0.490	$2400/F(\text{kHz})$	300
0.490 - 1.705	$24000/F(\text{kHz})$	30
1.705 – 30.0	30	30

Frequency of emission (MHz)	Field strength ($\mu\text{V/m}$)	Field strength (dBuV/m)	Measurement distance (m)
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Note: When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor.

Test setup

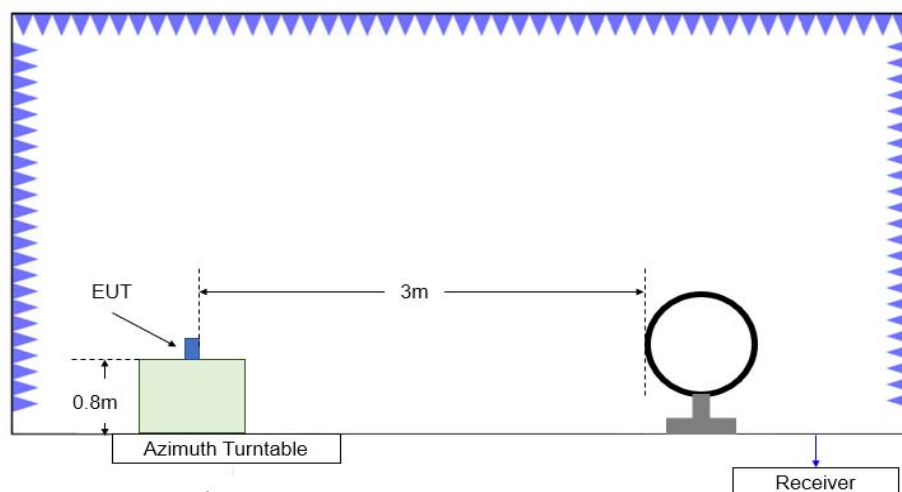


Figure B.5.1. Test Site Diagram (9kHz-30MHz)

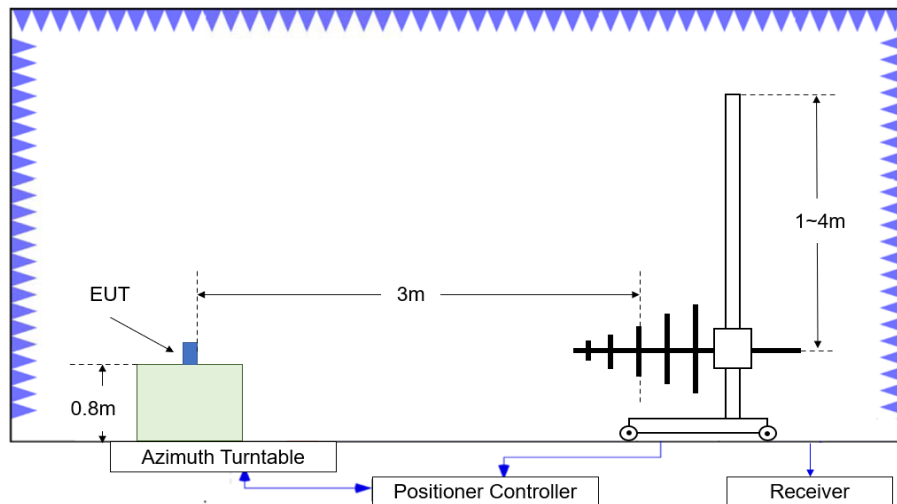


Figure B.5.2. Test Site Diagram (30MHz-1GHz)

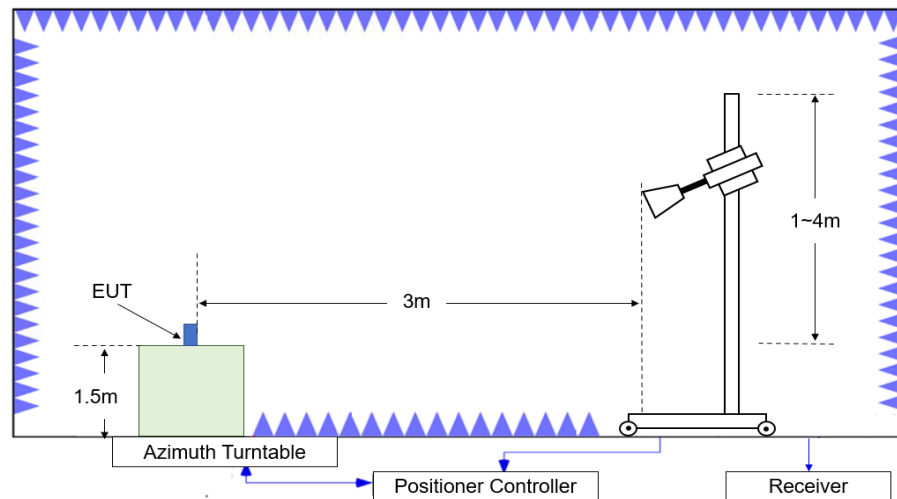


Figure B.5.3. Test Site Diagram (1GHz-40GHz)

Test Procedures

Radiated unwanted emissions from the EUT were measured according to ANSI C63.10-2013 (ANSI C63.10-2020).

Test setting

Frequency of emission (MHz)	RBW/VBW	Sweep Time(s)
30-1000	100kHz/300kHz	5
1000-3000	1MHz/3MHz	15
3000-18000	1MHz/3MHz	40
18000-26500	1MHz/3MHz	20

Sample Calculation

A "reference path loss" is established and the A_{Rpl} is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss.

P_{Mea} is the field strength recorded from the instrument.

The measurement results are obtained as described below:

Result= $P_{Mea}+A_{Rpl}=P_{Mea}+Cable\ Loss+Antenna\ Factor$

Test note

1. Investigation has been done on all modes and modulations/data rates. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.
2. Spurious emissions for all channels were investigated and almost the same below 1GHz. According to FCC 47 CFR §15.31, emission levels are not report much lower than the limit by over 20dB
3. Measurement frequencies were performed from 9 kHz to the 10th harmonic of highest fundamental frequency or 40GHz, whichever is lower.

Test Result

EUT ID: UT25a

Peak Measurement results

GFSK Ch 0

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17967.000	59.35	-25.40	45.40	39.35	74.00	14.65	H
14689.500	52.88	-28.30	41.40	39.78	74.00	21.12	H
11902.000	49.37	-31.00	39.80	40.57	74.00	24.63	V
6004.500	48.96	-36.40	34.50	50.86	74.00	25.04	H
9239.000	47.46	-33.90	37.80	43.56	74.00	26.54	H
2327.500	55.26	-19.20	28.40	46.06	74.00	18.74	H

GFSK Ch 39

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17991.500	59.95	-25.40	45.40	39.95	74.00	14.05	V
14098.000	52.40	-28.70	41.80	39.30	74.00	21.60	V
12404.500	50.50	-30.10	39.50	41.10	74.00	23.50	V
6102.500	47.97	-35.70	34.80	48.87	74.00	26.03	V
9841.000	46.57	-33.10	38.00	41.67	74.00	27.43	V
4971.000	41.21	-36.70	33.50	44.41	74.00	32.79	H

GFSK Ch 78

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17925.000	59.33	-25.40	45.40	39.33	74.00	14.67	H
14159.000	52.67	-29.40	41.70	40.37	74.00	21.33	H
11800.500	49.66	-31.30	39.80	41.16	74.00	24.34	V
6200.000	47.12	-35.40	34.80	47.72	74.00	26.88	H
9048.000	46.60	-33.60	37.70	42.50	74.00	27.40	H
2492.000	55.95	-19.00	28.50	46.45	74.00	18.05	H

Peak Measurement results

$\pi/4$ DQPSK Ch 0

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17918.000	58.97	-25.40	45.40	38.97	74.00	15.03	H
14185.500	52.80	-29.40	41.70	40.50	74.00	21.20	V
6005.000	49.89	-36.40	34.50	51.79	74.00	24.11	H
12369.000	49.57	-30.10	39.60	40.07	74.00	24.43	V
9025.500	47.42	-33.60	37.70	43.32	74.00	26.58	H
2388.800	56.32	-19.20	28.40	47.12	74.00	17.68	H

$\pi/4$ DQPSK Ch 39

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17928.500	59.54	-25.40	45.40	39.54	74.00	14.46	V
14665.000	51.94	-28.30	41.40	38.84	74.00	22.06	H
12352.500	50.53	-30.10	39.60	41.03	74.00	23.47	H
8992.000	47.08	-33.60	37.70	42.98	74.00	26.92	V
6102.000	46.94	-35.70	34.80	47.84	74.00	27.06	V
4954.000	41.83	-36.70	33.50	45.03	74.00	32.17	V

$\pi/4$ DQPSK Ch 78

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17902.500	59.26	-25.40	45.40	39.26	74.00	14.74	H
14613.500	52.46	-28.30	41.70	39.06	74.00	21.54	H
12380.500	49.21	-30.10	39.50	39.81	74.00	24.79	H
6200.000	47.57	-35.40	34.80	48.17	74.00	26.43	H
8980.500	46.86	-33.60	37.70	42.76	74.00	27.14	V
2485.500	56.19	-19.00	28.50	46.69	74.00	17.81	V

Peak Measurement results

8DPSK Ch 0

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17941.000	59.65	-25.40	45.40	39.65	74.00	14.35	V
14122.000	52.81	-29.40	41.80	40.41	74.00	21.19	H
6005.000	50.41	-36.40	34.50	52.31	74.00	23.59	H
12402.500	50.09	-30.10	39.50	40.69	74.00	23.91	H
9866.000	47.01	-33.10	38.00	42.11	74.00	26.99	V
2310.500	55.51	-19.30	27.90	46.91	74.00	18.49	V

8DPSK Ch 39

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17930.000	60.11	-25.40	45.40	40.11	74.00	13.89	V
14198.500	52.92	-29.40	41.70	40.62	74.00	21.08	H
12800.500	49.94	-30.40	39.80	40.54	74.00	24.06	H
9575.500	46.59	-33.20	37.70	42.09	74.00	27.41	H
6102.000	46.14	-35.70	34.80	47.04	74.00	27.86	V
4977.000	41.80	-36.70	33.50	45.00	74.00	32.20	H

8DPSK Ch 78

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17956.500	58.83	-25.40	45.40	38.83	74.00	15.17	V
13687.500	52.80	-29.90	40.80	41.90	74.00	21.20	H
12827.500	50.04	-30.60	39.80	40.84	74.00	23.96	V
6200.000	47.14	-35.40	34.80	47.74	74.00	26.86	H
9141.000	46.84	-33.70	37.80	42.74	74.00	27.16	V
2491.100	56.54	-19.00	28.50	47.04	74.00	17.46	V

Average Measurement results

GFSK Ch 0

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17920.000	50.03	-25.40	45.40	30.03	54.00	3.97	V
6005.000	46.62	-36.40	34.50	48.52	54.00	7.38	H
14208.500	43.01	-29.40	41.70	30.71	54.00	10.99	H
12397.500	40.24	-30.10	39.50	30.84	54.00	13.76	V
9235.000	37.56	-33.90	37.80	33.66	54.00	16.44	V
2331.200	43.72	-19.20	28.40	34.52	54.00	10.28	H

GFSK Ch 39

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17913.000	49.81	-25.40	45.40	29.81	54.00	4.19	V
6102.500	44.68	-35.70	34.80	45.58	54.00	9.32	V
14075.000	42.84	-28.70	41.80	29.74	54.00	11.16	V
12349.500	39.77	-30.10	39.60	30.27	54.00	14.23	H
8911.000	37.39	-33.60	37.70	33.29	54.00	16.61	H
4978.000	32.41	-36.70	33.50	35.61	54.00	21.59	V

GFSK Ch 78

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17940.000	49.71	-25.40	45.40	29.71	54.00	4.29	V
6200.000	44.73	-35.40	34.80	45.33	54.00	9.27	H
14195.000	42.76	-29.40	41.70	30.46	54.00	11.24	V
12467.000	40.09	-30.10	39.50	30.69	54.00	13.91	H
8926.500	37.16	-33.60	37.70	33.06	54.00	16.84	H
2499.900	44.34	-19.00	28.50	34.84	54.00	9.66	V

Average Measurement results

$\pi/4$ DQPSK Ch 0

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17926.000	49.99	-25.40	45.40	29.99	54.00	4.01	H
6005.000	47.45	-36.40	34.50	49.35	54.00	6.55	H
14602.500	43.11	-28.30	41.70	29.71	54.00	10.89	H
12822.500	40.04	-30.60	39.80	30.84	54.00	13.96	H
9915.000	36.99	-33.20	38.10	32.09	54.00	17.01	H
2387.100	43.75	-19.20	28.40	34.55	54.00	10.25	H

$\pi/4$ DQPSK Ch 39

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17950.500	50.39	-25.40	45.40	30.39	54.00	3.61	H
6102.500	43.03	-35.70	34.80	43.93	54.00	10.97	V
14111.500	42.77	-29.40	41.80	30.37	54.00	11.23	V
12409.000	40.00	-30.10	39.50	30.60	54.00	14.00	V
8977.500	36.92	-33.60	37.70	32.82	54.00	17.08	V
4991.500	32.07	-36.70	33.50	35.27	54.00	21.93	H

$\pi/4$ DQPSK Ch 78

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17935.000	49.84	-25.40	45.40	29.84	54.00	4.16	H
6200.000	44.23	-35.40	34.80	44.83	54.00	9.77	H
14203.000	42.63	-29.40	41.70	30.33	54.00	11.37	H
12373.500	39.83	-30.10	39.60	30.33	54.00	14.17	H
8906.500	37.00	-33.60	38.00	32.60	54.00	17.00	V
2500.000	44.34	-19.00	28.50	34.84	54.00	9.66	H

Average Measurement results

8DPSK Ch 0

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17914.500	50.28	-25.40	45.40	30.28	54.00	3.72	V
6005.000	47.49	-36.40	34.50	49.39	54.00	6.51	H
14186.500	43.24	-29.40	41.70	30.94	54.00	10.76	H
12389.500	40.24	-30.10	39.50	30.84	54.00	13.76	V
8901.000	37.42	-33.60	38.00	33.02	54.00	16.58	H
2355.600	43.68	-19.20	28.40	34.48	54.00	10.32	V

8DPSK Ch 39

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17919.500	50.29	-25.40	45.40	30.29	54.00	3.71	H
14571.500	42.77	-28.30	41.70	29.37	54.00	11.23	H
6102.500	42.67	-35.70	34.80	43.57	54.00	11.33	V
12331.500	40.10	-30.10	39.60	30.60	54.00	13.90	H
8906.500	37.13	-33.60	38.00	32.73	54.00	16.87	V
4952.500	32.19	-36.70	33.50	35.39	54.00	21.81	V

8DPSK Ch 78

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17919.000	50.12	-25.40	45.40	30.12	54.00	3.88	H
6200.000	44.36	-35.40	34.80	44.96	54.00	9.64	H
14112.000	42.81	-29.40	41.80	30.41	54.00	11.19	H
12339.500	39.95	-30.10	39.60	30.45	54.00	14.05	H
9044.000	36.97	-33.60	37.70	32.87	54.00	17.03	V
2493.200	44.32	-19.00	28.50	34.82	54.00	9.68	H

Conclusion: Pass

Note: the spurious emission above 18G is noise only and did not show on the report.

Band edge compliance

Mode	Channel	Frequency Range	Test Results	Conclusion
GFSK	0	2.31GHz ~2.43GHz	Fig.1	P
	78	2.45GHz ~2.5GHz	Fig.2	P

Mode	Channel	Frequency Range	Test Results	Conclusion
$\pi/4$ DQPSK	0	2.31GHz ~2.43GHz	Fig.3	P
	78	2.45GHz ~2.5GHz	Fig.4	P

Mode	Channel	Frequency Range	Test Results	Conclusion
8DPSK	0	2.31GHz ~2.43GHz	Fig.5	P
	78	2.45GHz ~2.5GHz	Fig.6	P

Conclusion: PASS

Test graphs as below

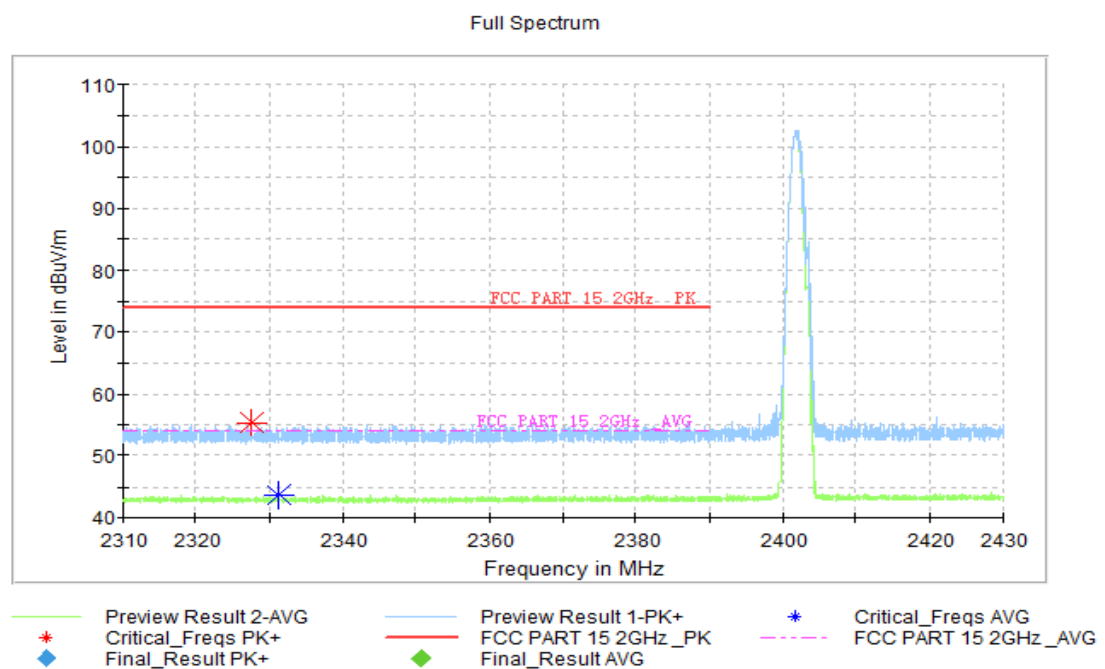


Fig.1. Frequency Band Edges: GFSK, Channel 0, Hopping Off, 2.31 GHz – 2.45GHz

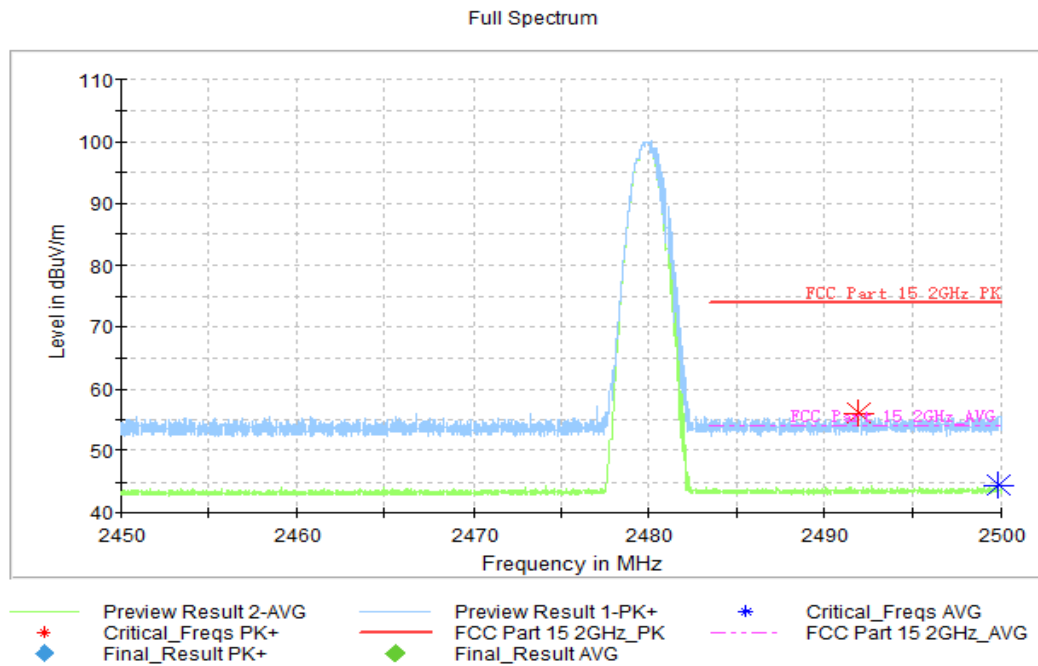


Fig.2. Frequency Band Edges: GFSK, Channel 78, Hopping Off, ch11, 2.45 GHz - 2.50GHz

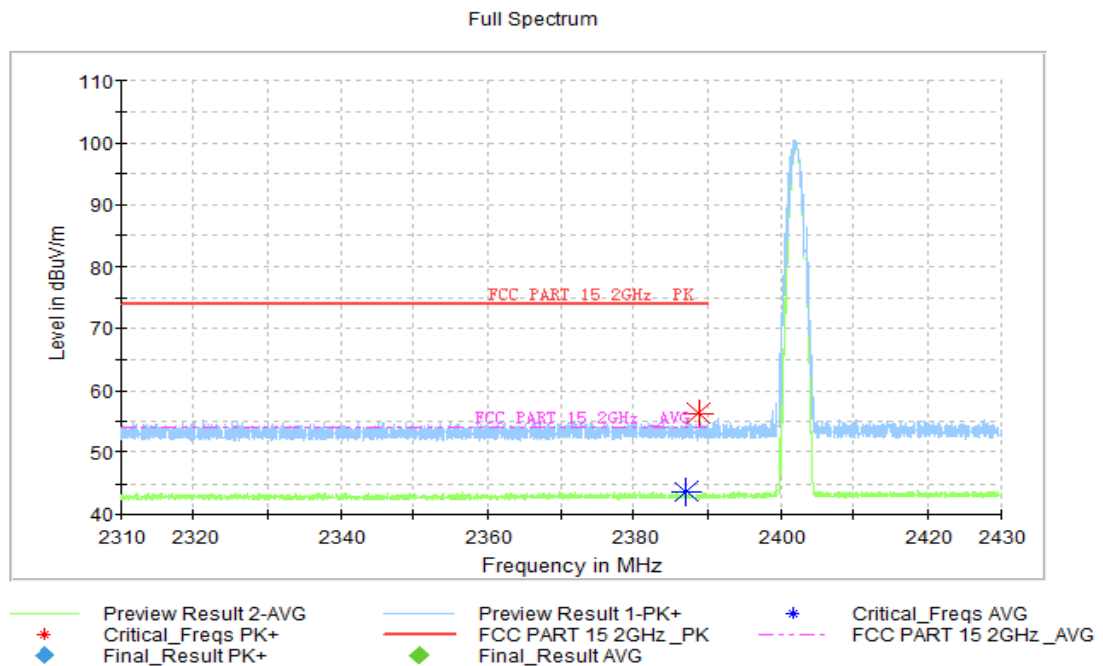


Fig.3. Frequency Band Edges: $\pi/4$ DQPSK, Channel 0, Hopping Off, 2.31 GHz - 2.45GHz

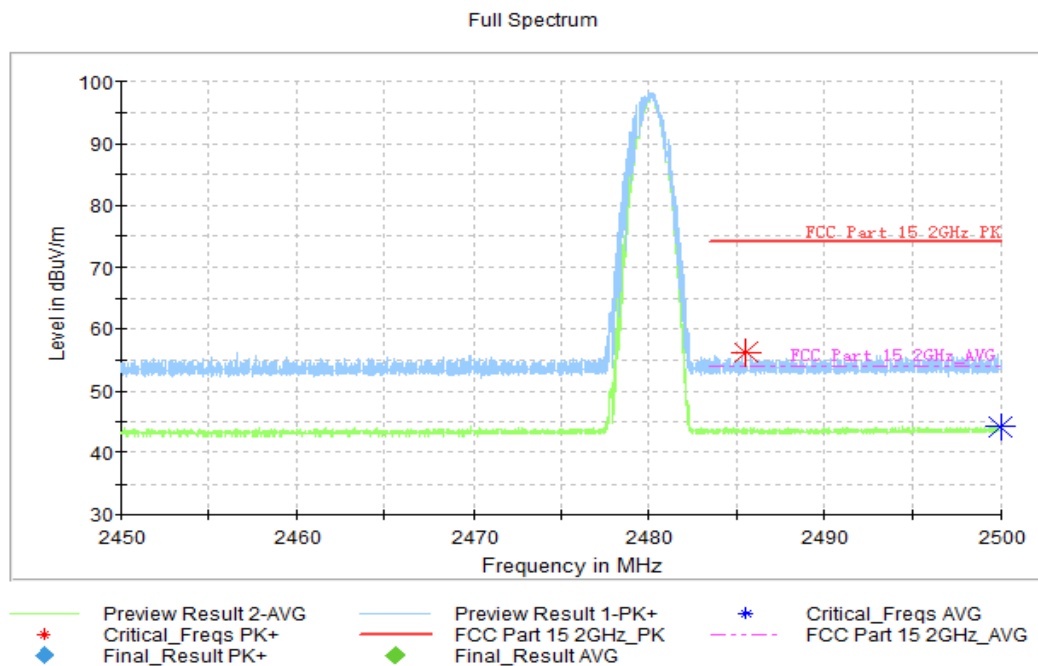


Fig.4. Frequency Band Edges: $\pi/4$ DQPSK, Channel 78, Hopping Off, 2.45 GHz - 2.50GHz

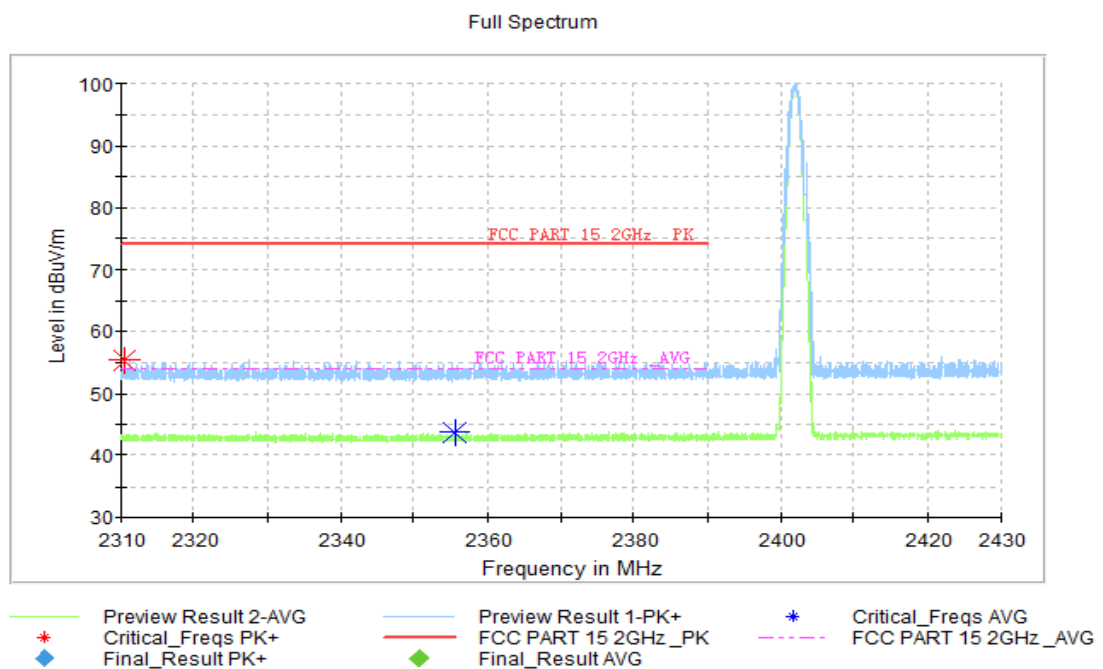


Fig.5. Frequency Band Edges: 8DPSK, Channel 0, 2.31 GHz - 2.45GHz

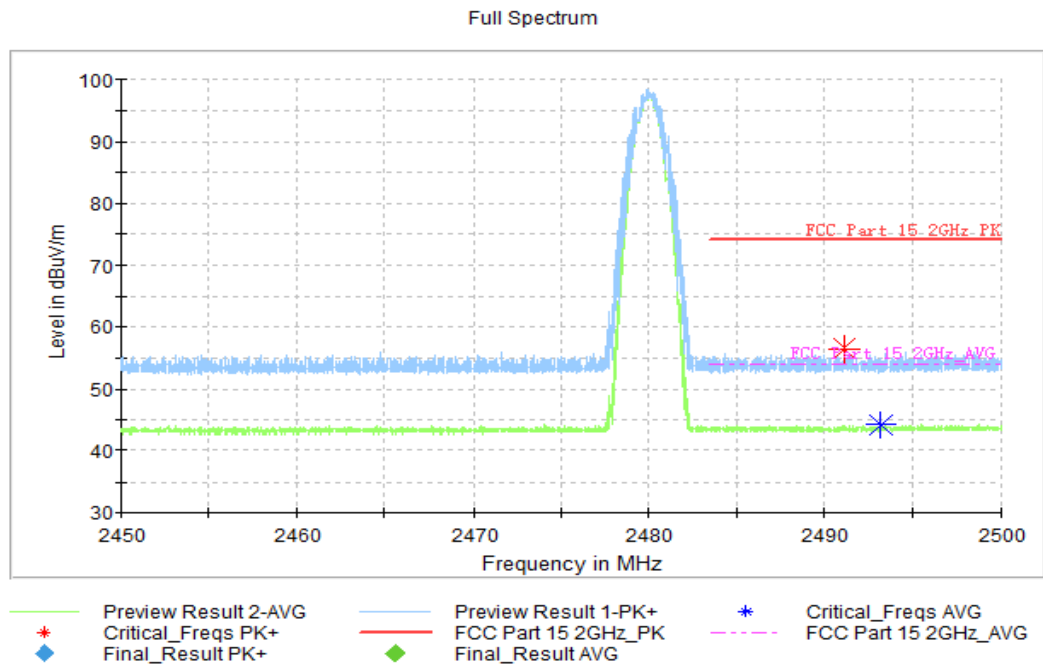


Fig.6. Frequency Band Edges: 8DPSK, Channel 78, 2.45 GHz - 2.50GHz

B.6. Time of Occupancy (Dwell Time)

Method of Measurement: See ANSI C63.10-clause 7.8.4

The EUT must have its hopping function enabled. Use the following spectrum analyzer settings:

- Span = zero span, centered on a hopping channel
- RBW = 1 MHz
- VBW $\geq$ RBW
- Sweep = as necessary to capture the entire dwell time per hopping channel
- Detector function = peak
- Trace = max hold

Measure a pulse time in time domain at middle frequency and then count the hopping number in 31.6s(which equals with 0.4 multiply 79) of middle frequency ,then multiply the pulse time and hopping number and record them.

Measurement Limit:

Standard	Limit (ms)
FCC 47 CFR Part 15.247(a) (1)(iii)	< 400

Measurement Result:

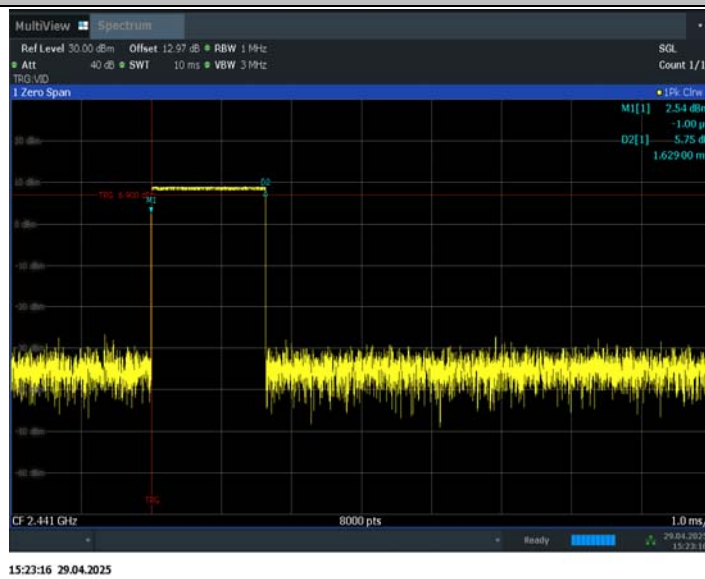
TestMode	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Hop	0.374	320	0.12	≤ 0.4	PASS
DH3	Hop	1.629	160	0.261	≤ 0.4	PASS
DH5	Hop	2.878	106.67	0.307	≤ 0.4	PASS
2DH1	Hop	0.383	320	0.123	≤ 0.4	PASS
2DH3	Hop	1.634	160	0.261	≤ 0.4	PASS
2DH5	Hop	2.882	106.67	0.307	≤ 0.4	PASS
3DH1	Hop	0.383	320	0.123	≤ 0.4	PASS
3DH3	Hop	1.634	160	0.261	≤ 0.4	PASS
3DH5	Hop	2.884	106.67	0.308	≤ 0.4	PASS

Test graphs as below:

DH1_Hop



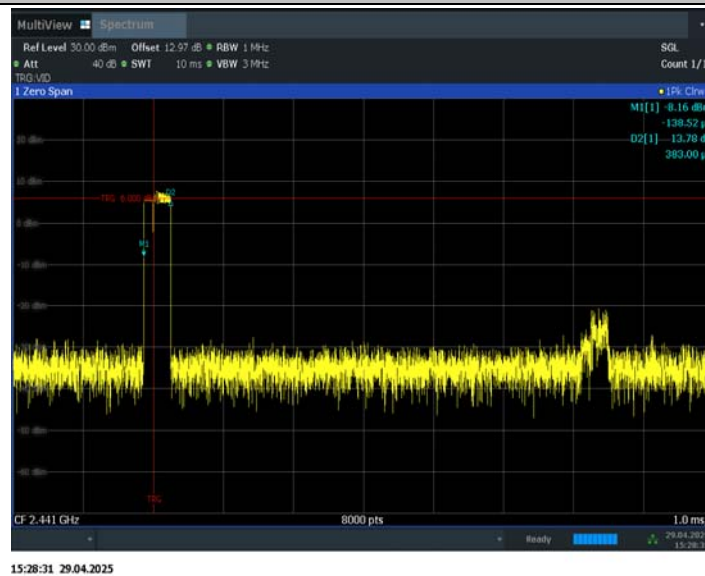
DH3_Hop



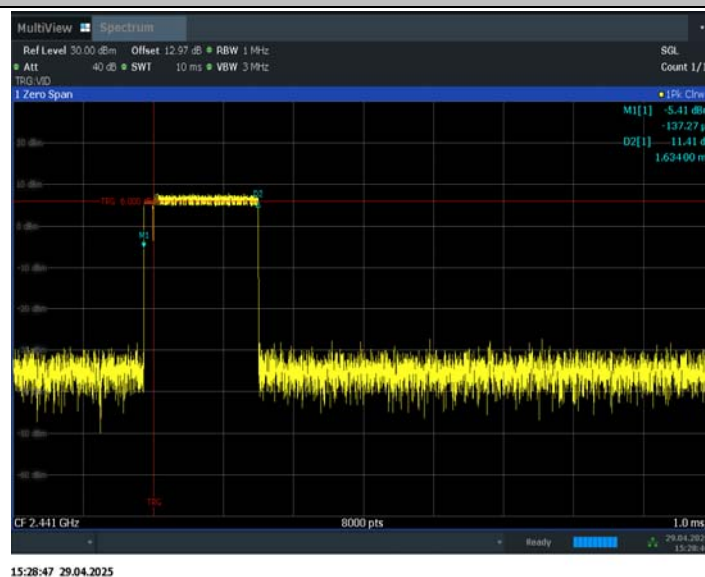
DH5_Hop



2DH1_Hop



2DH3_Hop

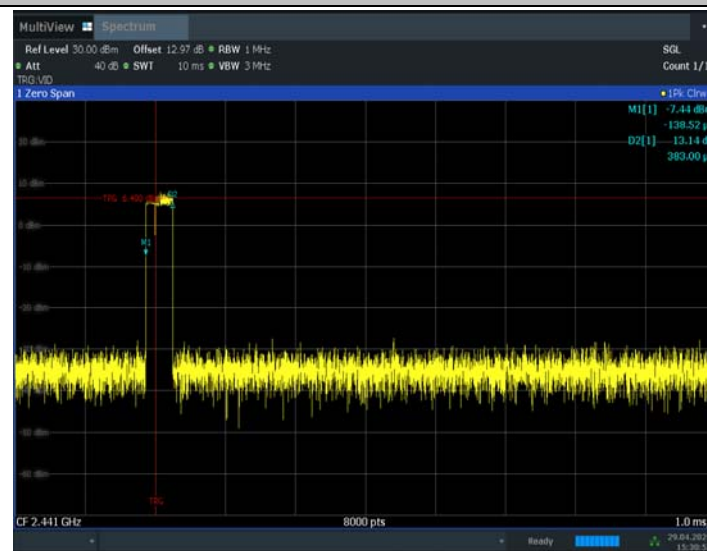


2DH5_Hop



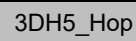
15:28:16 29.04.2025

3DH1_Hop



15:30:53 29.04.2025

3DH3_Hop



Conclusion: PASS

B.7. 20dB Bandwidth

Method of Measurement: See ANSI C63.10-clause 6.9.2

Measurement Procedure - Unwanted Emissions

1. Set RBW = 30kHz.
2. Set VBW = 100 kHz.
3. Set span to 3MHz
4. Detector = peak.
5. Trace Mode = max hold.
6. Sweep = auto couple.
7. Allow the trace to stabilize (this may take some time, depending on the extent of the span).

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247(a)(1)	NA *

Use NdB Down function of the SA to measure the 20dB Bandwidth

* Comment: This test case is not required according to the latest FCC 47 CFR Part 15.247. But the test results are necessary for “carrier frequency separation” test case, in Annex A.8.

Measurement Results:

TestMode	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	2402	0.86	2401.54	2402.41	---	---
	2441	0.86	2440.54	2441.41	---	---
	2480	0.86	2479.54	2480.41	---	---
2DH5	2402	1.32	2401.34	2402.66	---	---
	2441	1.32	2440.34	2441.65	---	---
	2480	1.31	2479.35	2480.65	---	---
3DH5	2402	1.31	2401.35	2402.65	---	---
	2441	1.31	2440.34	2441.65	---	---
	2480	1.30	2479.35	2480.65	---	---

Conclusion: NA

Test graphs as below:

DH5_2402



15:01:26 29.04.2025

DH5_2441



15:03:04 29.04.2025

DH5_2480



2DH5_2402



2DH5_2441



2DH5_2480



15:09:15 29.04.2025

3DH5_2402



15:10:55 29.04.2025

3DH5_2441



15:12:32 29.04.2025

3DH5_2480



15:13:59 29.04.2025

B.8. Carrier Frequency Separation

Method of Measurement: See ANSI C63.10-clause 7.8.2

The EUT must have its hopping function enabled. Use the following spectrum analyzer settings:

- Span = 3MHz
- RBW=300kHz
- VBW=300kHz
- Sweep = auto
- Detector function = peak
- Trace = max hold
- Allow the trace to stabilize

Search the peak marks of the middle frequency and adjacent channel, then record the separation between them.

* Comment: This limit should be over 25 kHz or $(2/3) * 20\text{dB}$ bandwidth, whichever is greater.

Measurement Limit:

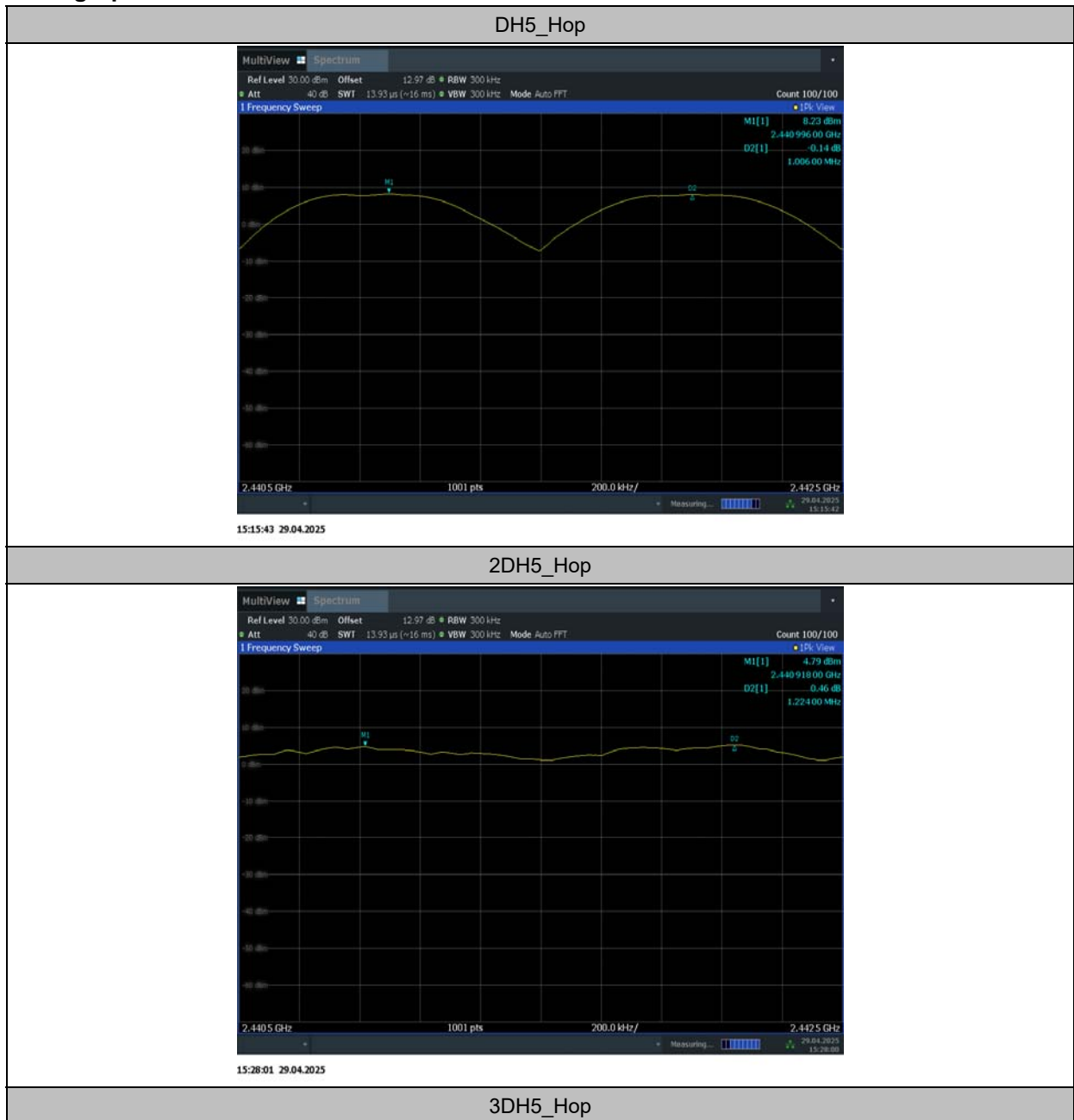
Standard	Limit(kHz)
FCC 47 CFR Part 15.247(a)(1)	over 25 kHz or $(2/3) * 20\text{dB}$ bandwidth

Measurement Result:

TestMode	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Hop	1.006	≥ 0.860	PASS
2DH5	Hop	1.224	≥ 0.880	PASS
3DH5	Hop	0.94	≥ 0.873	PASS

Conclusion: PASS

Test graphs as below:





B.9. Number of Hopping Channels

Method of Measurement: See ANSI C63.10-clause 7.8.3

The EUT must have its hopping function enabled. Use the following spectrum analyzer settings:

- Span = the frequency band of operation
- RBW = 500kHz
- VBW = 500kHz
- Sweep = auto
- Detector function = peak
- Trace = max hold
- Allow the trace to stabilize

It might prove necessary to break the span up into subranges to show clearly all of the hopping frequencies. Compliance of an EUT with the appropriate regulatory limit shall be determined for the number of hopping channels. A plot of the data shall be included in the test report.

Measurement Limit:

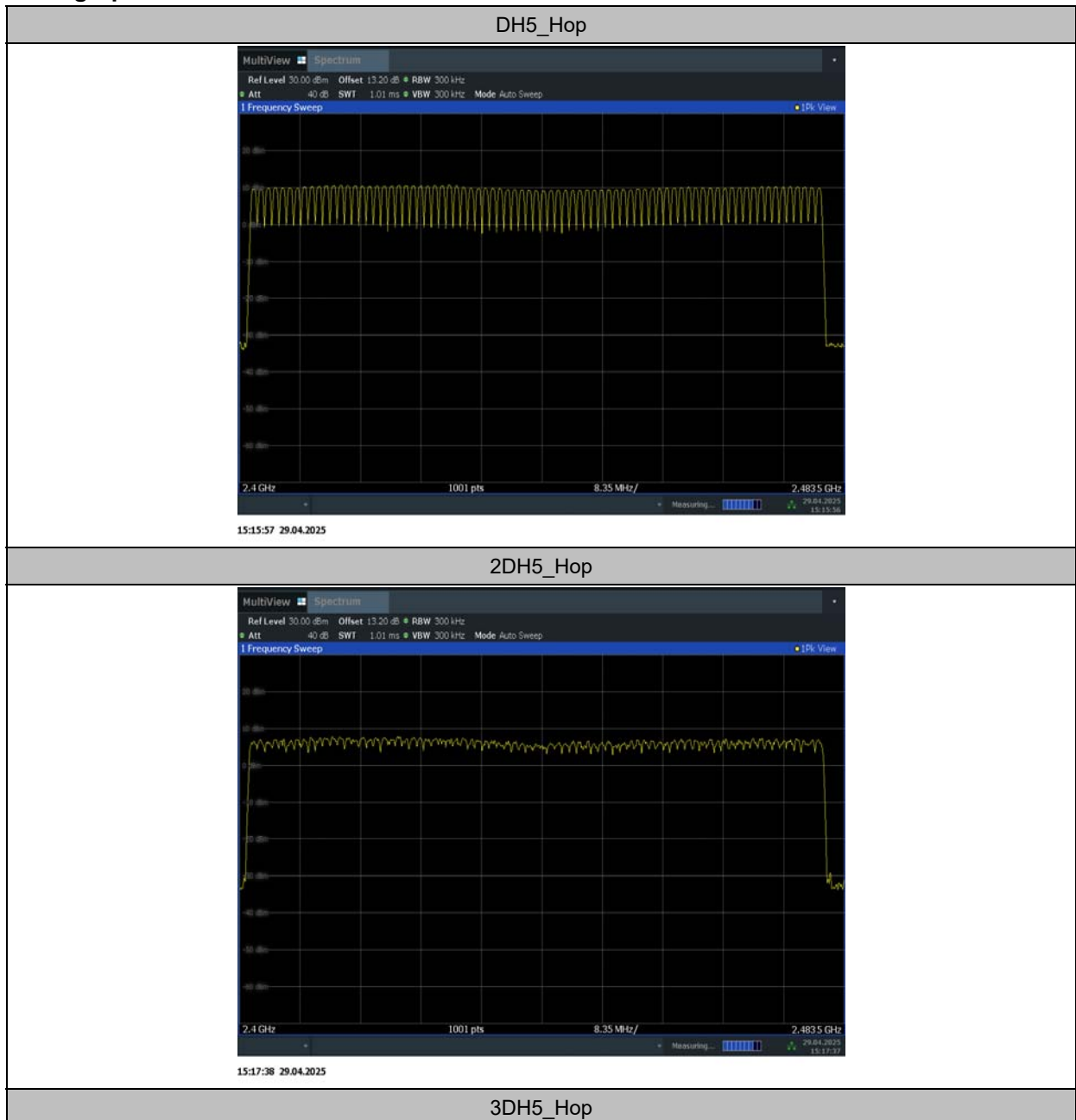
Standard	Limit
FCC 47 CFR Part 15.247(a) (1)(iii)	At least 15 non-overlapping channels

Measurement Result:

TestMode	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH5	Hop	79	≥15	PASS
2DH5	Hop	79	≥15	PASS
3DH5	Hop	79	≥15	PASS

Conclusion: PASS

Test graphs as below:





B.10. AC Powerline Conducted Emission

Summary

All AC line conducted spurious emissions are measured with a receiver connected to a grounded LISN while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for conducted spurious emissions. Only the conducted emissions of the configuration that produced the worst case emissions are reported in this section

Method of Measurement:

See Clause 6.2 of ANSI C63.10 specifically.

See Clause 4 and Clause 5 of ANSI C63.10 generally.

The conducted emissions from the AC port of the EUT are measured in a shielding room. The EUT is connected to a Line Impedance Stabilization Network (LISN). An overview sweep with peak detection was performed. The measurements were performed with a quasi-peak detector and if required, an average detector.

The conducted emission measurements were made with the following detector of the test receiver: Quasi-Peak / Average Detector.

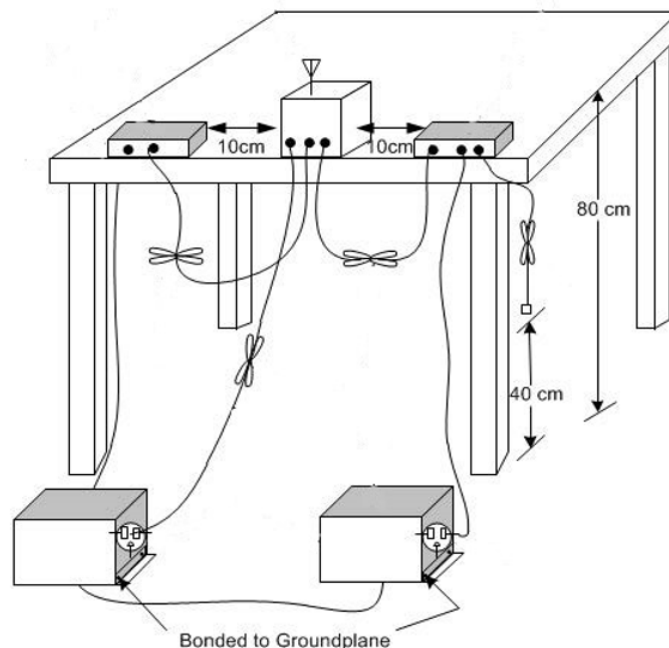
The measurement bandwidth is:

Frequency of Emission (MHz)	RBW/IF bandwidth
0.15-30	9kHz

Test Condition:

Voltage (V)	Frequency (Hz)
120	60

Test setup



Measurement Result and limit:

Bluetooth (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Result (dBμV)		Conclusion
		With charger QC16US		
		bluetooth	Idle	
0.15 to 0.5	66 to 56	Fig.B.10.1	Fig. B.10.2	P
0.5 to 5	56			
5 to 30	60			

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

Bluetooth (Average Limit)

Frequency range (MHz)	Average Limit (dBμV)	Result (dBμV)		Conclusion
		With charger QC16US		
		bluetooth	Idle	
0.15 to 0.5	56 to 46	Fig.B.10.1	Fig. B.10.2	P
0.5 to 5	46			
5 to 30	50			

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

Bluetooth (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Result (dBμV)		Conclusion
		With charger QC16EU		
		bluetooth	Idle	
0.15 to 0.5	67 to 56	Fig.B.10.3	/	P
0.5 to 5	56			
5 to 30	60			

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

Bluetooth (Average Limit)

Frequency range (MHz)	Average Limit (dBμV)	Result (dBμV)		Conclusion
		With charger QC16EU		
		bluetooth	Idle	
0.15 to 0.5	56 to 46	Fig.B.10.3	/	P
0.5 to 5	46			
5 to 30	50			

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

Conclusion: Pass
Test graphs as below:

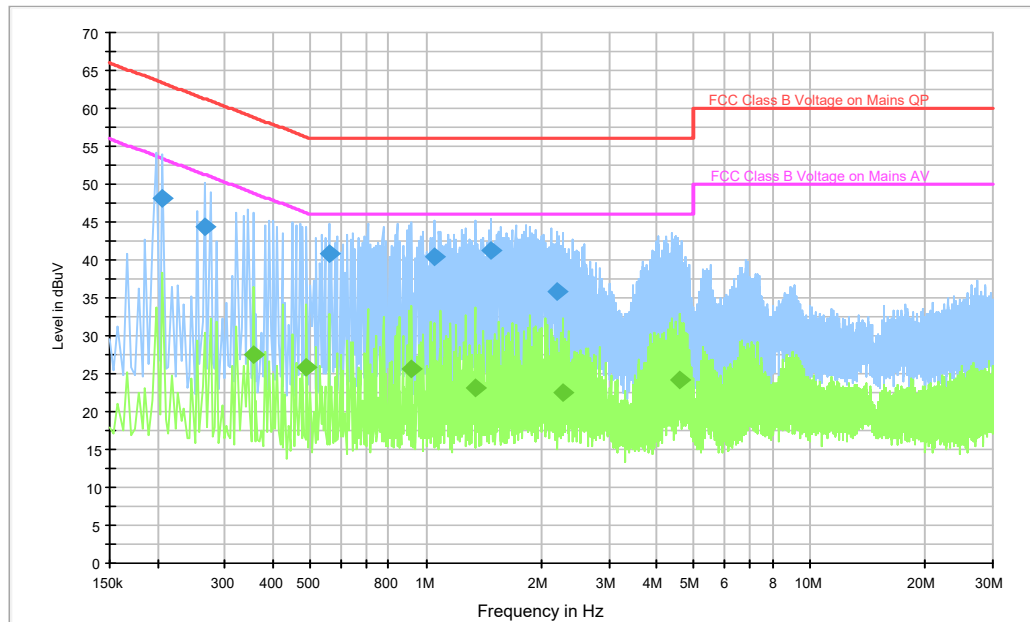


Fig.B.10.1 AC Powerline Conducted Emission- Bluetooth With charger QC16US

Note: The graphic result above is the maximum of the measurements for both phase line and neutral line.

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.206000	48.1	2000.0	9.000	On	L1	19.8	15.3	63.4
0.266000	44.4	2000.0	9.000	On	L1	19.9	16.9	61.2
0.558000	40.9	2000.0	9.000	On	N	19.9	15.1	56.0
1.054000	40.5	2000.0	9.000	On	L1	19.9	15.5	56.0
1.474000	41.2	2000.0	9.000	On	L1	19.9	14.8	56.0
2.186000	35.9	2000.0	9.000	On	L1	19.8	20.1	56.0

Final Result 2

Frequency (MHz)	CAverage (dBμV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.354000	27.5	2000.0	9.000	On	L1	19.9	21.4	48.9
0.490000	25.9	2000.0	9.000	On	L1	20.0	20.3	46.2
0.918000	25.6	2000.0	9.000	On	L1	19.9	20.4	46.0
1.338000	23.1	2000.0	9.000	On	N	19.7	22.9	46.0
2.274000	22.5	2000.0	9.000	On	L1	19.8	23.5	46.0
4.566000	24.3	2000.0	9.000	On	L1	19.8	21.7	46.0

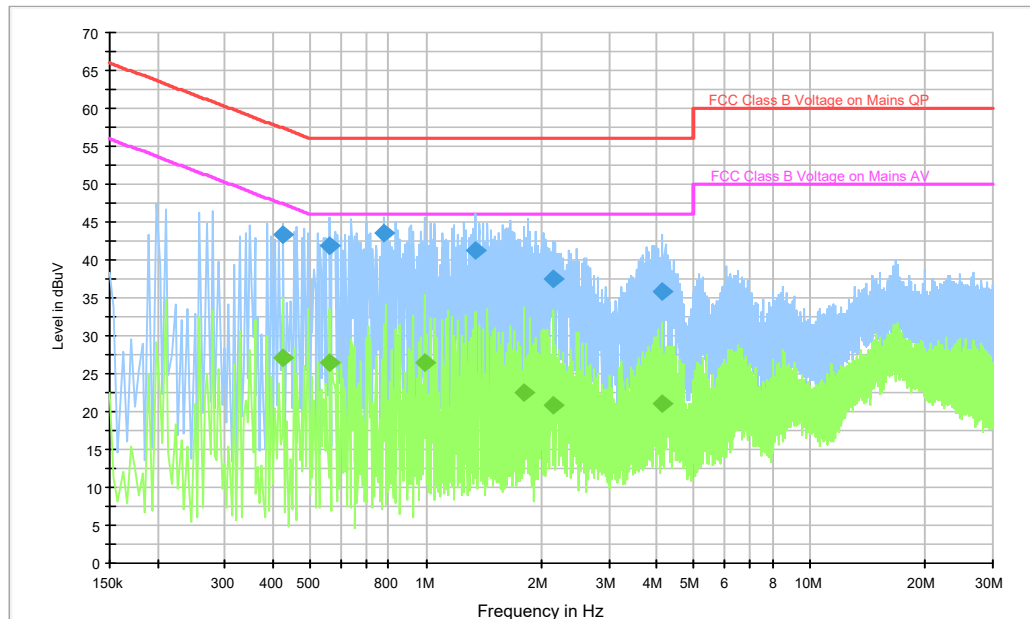


Fig.B.10.2 AC Powerline Conducted Emission-Idle With charger QC16US

Note: The graphic result above is the maximum of the measurements for both phase line and neutral line.

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.426000	43.38	2000	9.000	On	L1	19.97	13.90	57.30
0.562000	41.85	2000	9.000	On	L1	20.00	14.20	56.00
0.778000	43.49	2000	9.000	On	L1	19.94	12.50	56.00
1.342000	41.30	2000	9.000	On	L1	19.86	14.70	56.00
2.142000	37.42	2000	9.000	On	L1	19.82	18.60	56.00
4.114000	35.86	2000	9.000	On	L1	19.84	20.10	56.00

Final Result 2

Frequency (MHz)	CAverage (dBμV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.426000	27.1	2000.0	9.000	On	L1	20.0	20.3	47.3
0.562000	26.4	2000.0	9.000	On	L1	20.0	19.6	46.0
0.990000	26.4	2000.0	9.000	On	L1	19.9	19.6	46.0
1.798000	22.6	2000.0	9.000	On	L1	19.8	23.4	46.0
2.142000	20.7	2000.0	9.000	On	L1	19.8	25.3	46.0
4.114000	21.0	2000.0	9.000	On	L1	19.8	25.0	46.0

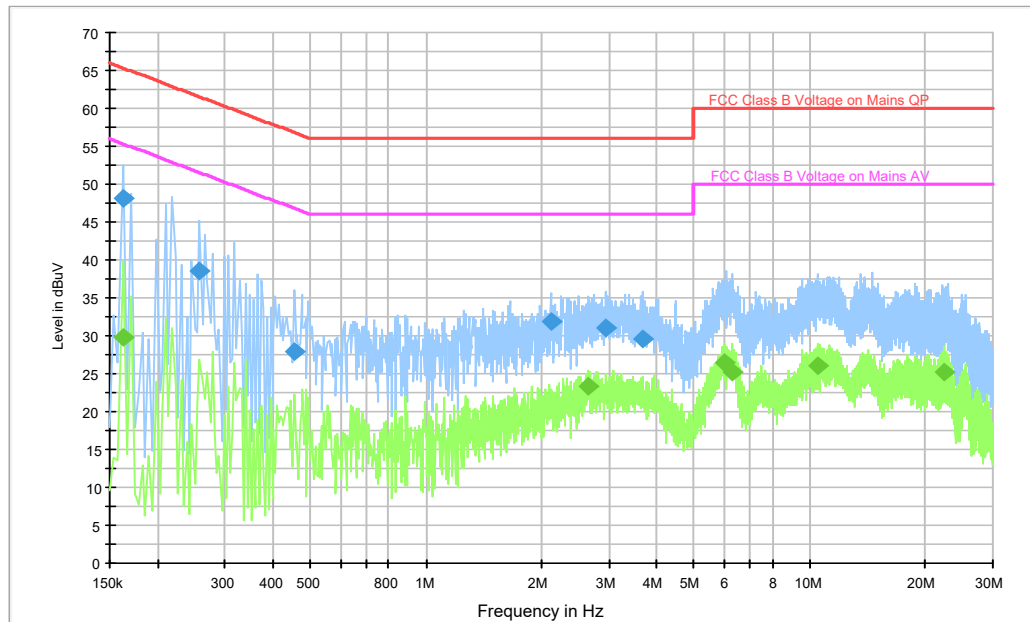


Fig.B.10.3 AC Powerline Conducted Emission- Bluetooth With charger QC16EU

Note: The graphic result above is the maximum of the measurements for both phase line and neutral line.

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.162000	48.2	2000.0	9.000	On	L1	19.9	17.2	65.4
0.258000	38.5	2000.0	9.000	On	L1	19.9	23.0	61.5
0.454000	27.9	2000.0	9.000	On	L1	20.0	28.9	56.8
2.110000	31.9	2000.0	9.000	On	L1	19.8	24.1	56.0
2.954000	31.1	2000.0	9.000	On	L1	19.8	24.9	56.0
3.686000	29.7	2000.0	9.000	On	L1	19.8	26.3	56.0

Final Result 2

Frequency (MHz)	CAverage (dBμV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.162000	29.8	2000.0	9.000	On	L1	19.9	25.6	55.4
2.662000	23.4	2000.0	9.000	On	L1	19.8	22.6	46.0
6.026000	26.5	2000.0	9.000	On	L1	19.9	23.5	50.0
6.298000	25.3	2000.0	9.000	On	L1	19.9	24.7	50.0
10.454000	26.0	2000.0	9.000	On	L1	19.9	24.0	50.0
22.294000	25.3	2000.0	9.000	On	L1	20.1	24.7	50.0



B.11. Antenna Requirement

The antenna of the device is permanently attached. There are no provisions for connection to an external antenna.

The unit complies with the requirement of FCC Part 15.203.

ANNEX C: Accreditation Certificate



Accredited Laboratory

A2LA has accredited

TELECOMMUNICATION TECHNOLOGY LABS, CAICT

Beijing, People's Republic of China

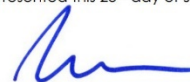
for technical competence in the field of

Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 23rd day of July 2024.



Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 7049.01
Valid to July 31, 2026

For the tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.

*****END OF REPORT*****