



FCC PART 15C EDR TEST REPORT No.I22Z70452-EMC07

for

Samsung Electronics Co., Ltd.

Notebook PC

Model Name: NP750XFH, NP754XFH, NP750XFS, NP754XFS

With

FCC ID: ZCANP750XFH

Hardware Version: REV1.0

Software Version: Windows 11

Issued Date: 2022-12-07

Note:

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The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
I22Z70452-EMC07	Rev.0	1st edition	2022-12-07

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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 NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP) with lab code 600118-0, and is also an FCC accredited test laboratory (CN5017), and ISED accredited test laboratory (ISED#: 24849). The detail accreditation scope can be found on NVLAP website.

1.2. Testing Location

Location1: CTTL(BDA)

Address: No. 18A, Kangding Street, Beijing Economic-Technology Development Area, Beijing, 100176, P.R. China

Location2: CTTL (Huayuan North Road)

Address: No. 52 Huayuan North Road, Haidian District, Beijing 100191, P.R. China

1.3. Testing Environment

Normal Temperature: 15-35°C

Relative Humidity: 20-75%

1.4. Project data

Testing Start Date: 2022-11-01

Testing End Date: 2022-12-07

1.5. Signature



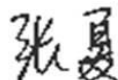
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2. Client Information

2.1. Applicant Information

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2.2. Manufacturer Information

Company Name: Samsung Electronics Co., Ltd.
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Contact: Sunghoon Cho
Email: ggobi.cho@samsung.com
Telephone: +82-10-2722-4159
Fax: /

3. PRODUCT INFORMATION

3.1. About EUT

Description	Notebook PC
Model name	NP750XFH, NP754XFH, NP750XFS, NP754XFS
FCC ID	ZCANP750XFH

Note: Components list, please refer to documents of the manufacturer; it is also included in the original test record of T CTTL-Telecommunication Technology Labs, CAICT

3.2. Internal Identification of EUT

EUT ID*	SN or IMEI	HW Version	SW Version
EUT1	2270452UT23a	REV1.0	Windows 11
EUT2	2270452UT13a	REV1.0	Windows 11

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

3.3. Internal Identification of AE

AE ID*	Description	SN	Remarks
AE1	Travel Adapter	/	/
AE2	Data Cable	/	/
AE3	battery	/	Inbuilt

AE1

Model	EP-TA865
Manufacturer	DONGYANG E&P Inc
Length of cable	/

AE2

Model	/
Manufacturer	/
Length of cable	/

AE3

Model	/
Manufacturer	/

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

3.4. General Description

The Equipment Under Test (EUT) was a Notebook PC with Bluetooth, Bluetooth Low Energy and 802.11 a/b/g/n/ac/ax capabilities in the 2.4 GHz and 5 GHz bands.

Antenna information

Item	Spec.	Vendor	Vendor P/N	Sample under test
Antenna	Main antenna (Chain A)	INNOWAVE	/	EUT1
	Auxiliary antenna (Chain B)			
Antenna	Main antenna (Chain A)	SPEED	/	EUT2
	Auxiliary antenna (Chain B)			

Manual and specifications of the EUT were provided to fulfil the test.

Samples undergoing test were selected by the Client.

The differences in the model names are only for different marketing purposes.

For more EUT information please refers to the manufacturer's specifications or user's manual.

3.5. Test Configuration

Test Mode		Transmitting Frequency (MHz)		
GFSK	Antenna INNOWAVE(EUT1)	2402(CH0)	2441 (CH39)	2480 (CH78)
	Antenna SPEED(EUT2)	2402(CH0)	2441 (CH39)	2480 (CH78)
$\pi/4$ DQPSK	Antenna INNOWAVE(EUT1)	2402(CH0)	2441 (CH39)	2480 (CH78)
	Antenna SPEED(EUT2)	2402(CH0)	2441 (CH39)	2480 (CH78)
8DPSK	Antenna INNOWAVE(EUT1)	2402(CH0)	2441 (CH39)	2480 (CH78)
	Antenna SPEED(EUT2)	2402(CH0)	2441 (CH39)	2480 (CH78)

For Bluetooth mode the EUT can transmit only at CHAIN A RF output.

The software DRTU provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.

3.6. Interpretation of the Test Environment

For the test methods, the test environment uncertainty figures correspond to an expansion factor $k=2$.

Measurement Uncertainty

Parameter	Uncertainty
temperature	0.48°C
humidity	2 %
DC voltages	0.003V

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: 15.205 Restricted bands of operation; 15.209 Radiated emission limits, general requirements; 15.247 Operation within the bands 902-928MHz, 2400-2483.5 MHz, and 5725-5850 MHz.	2020
ANSI C63.10	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices Federal Communications Commission Office of Engineering and Technology Laboratory Division	2020
KDB 558074 D01	GUIDANCE FOR COMPLIANCE MEASUREMENTS ON DIGITAL TRANSMISSION SYSTEM, FREQUENCY HOPPING SPREAD SPECTRUM SYSTEM, AND HYBRID SYSTEM DEVICES OPERATING UNDER SECTION 15.247 OF THE FCC RULES	2019

Note: The test methods have no deviation with standards.

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 of Part15C	Verdict
Radiated Spurious Emission	15.247, 15.205, 15.209	P
AC Power line Conducted Emission	15.107, 15.207	P

Please refer to **ANNEX C** 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

5.3. Test Conditions

T nom	Normal Temperature
T min	Low Temperature
T max	High Temperature
V nom	Normal Voltage

For this report, if the test cases listed above are tested under normal temperature and normal voltage, and also under norm humidity, the specific condition is shown as follows:

Temperature	T nom	15-35°C
Voltage	V nom	15.4V
Humidity	H nom	20-75%

6. Test Facilities Utilized

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	Test Receiver	ESU26	100376	R&S	1 year	2023-09-22
2	Test Receiver	ESW44	103015	R&S	1 year	2023-02-23
3	Test Receiver	ESU26	100235	R&S	1 year	2023-03-08
4	Loop Antenna	HFH2-Z2	829324/007	R&S	1 year	2022-12-22
5	EMI Antenna	VULB9163	01223	Schwarzbeck	1 year	2023-07-25
6	EMI Antenna	3117	00119024	ETS-Lindgren	1 year	2023-06-07
7	EMI Antenna	3115	00167252	ETS-Lindgren	1 year	2022-12-26
8	EMI Antenna	LB-180400 -25-C-KF	J211060826	A-INFO	1 year	2023-02-27
9	Universal Radio Communication Tester	CMW500	159408	R&S	1 year	2023-04-01
10	Bluetooth Tester	CBT	101042	R&S	1 year	2022-12-22

AC Power Line Conducted Emission

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	LISN	ENV216	101459	R&S	1 year	2023-03-26
2	Test Receiver	ESCI	100766	R&S	1 year	2023-03-02
3	Universal Radio Communication Tester	CMW500	159408	R&S	1 year	2023-04-01

Test Software

Test Item	Test Software and Version	Software Vendor
Radiated Continuous Emission	EMC32 V8.53.0	R&S
	EMC32 V10.60.20	R&S
Conducted Emission	EMC32 V8.53.0	R&S

7. Measurement Uncertainty

Radiated Spurious Emission

Measurement Uncertainty:

Frequency Range	Uncertainty(dBm) (k=2)
9kHz-30MHz	4.92
$30\text{MHz} \leq f \leq 1\text{GHz}$	5.15
$1\text{GHz} \leq f \leq 18\text{GHz}$	5.58
$18\text{GHz} \leq f \leq 40\text{GHz}$	3.37

AC Power-line Conducted Emission

Measurement Uncertainty (k=2)	3.10dB
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ANNEX A: EUT parameters

Disclaimer: The antenna gain and setting power 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: Antenna Requirements

According to FCC 47 CFR § 15.203:

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.”

- (1) The antennas of the EUT are permanently attached.
- (2) The EUT complies with the requirement of §15.203

ANNEX C: Detailed Test Results

C.1. Radiated Spurious Emission

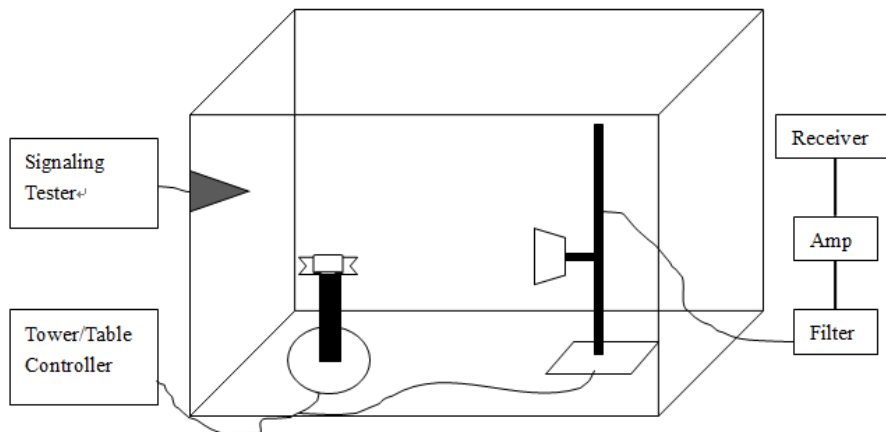
Specification Reference

FCC 47 CFR Part 15.247, 15.205, 15.209

Method of Measurement

Testing was performed in accordance with ANSI C63.10-2013 and KDB 558074.

The radiated emission test is performed in a semi-anechoic chamber. The distance from the EUT to the reference point of the measurement antenna is 3m. The test is carried out on both vertical and horizontal polarization and only the maximization result of both polarizations is kept. During the test, the turntable is rotated 360° and the measurement antenna is moved from 1m to 4m to get the maximization result.



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(μ V/m)	Measurement distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30

Frequency of emission (MHz)	Field strength (uV/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

Test settings

Frequency of emission (MHz)	RBW/VBW
30-1000	100kHz/300kHz
1000-4000	1MHz/3MHz
4000-18000	1MHz/3MHz
18000-26500	1MHz/3MHz

Sample Calculation

The measurement results are obtained as described below:

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

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.

Test Notes

1. The EUT is operating at its maximum duty cycle and its maximum power control level.
2. Investigation has been done on all channel, modes and modulations/data rates. Only the radiated emissions of the configurations that produced the worst case emissions are reported in this section.

C.1.1 Radiated Spurious Emission- above 1GHz

INNOWAVE

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)
2387.994	54.39	4.61	27.42	22.35	74.00	19.61	H
2388.932	53.87	4.61	27.42	21.84	74.00	20.13	H
4804.000	39.24	-36.04	33.80	41.48	74.00	34.76	V
7206.000	41.54	-34.58	35.42	40.70	74.00	32.46	V
9608.000	43.57	-33.50	36.72	40.35	74.00	30.43	V
12010.000	45.27	-31.69	38.81	38.15	74.00	28.73	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)
2372.450	44.58	-36.71	31.52	49.77	74.00	29.42	V
2511.450	46.62	-36.72	32.20	51.15	74.00	27.38	H
4882.000	42.55	-35.77	33.80	44.52	74.00	31.45	V
7323.000	43.29	-34.21	35.55	41.95	74.00	30.71	H
9764.000	43.53	-33.57	37.03	40.07	74.00	30.47	V
12205.000	44.85	-31.58	38.80	37.63	74.00	29.15	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)
2483.590	57.44	4.65	27.87	24.92	74.00	16.56	V
2487.505	58.01	4.64	27.90	25.46	74.00	15.99	V
4960.000	40.61	-35.60	33.88	42.33	74.00	33.39	V
7440.000	43.54	-34.17	35.50	42.21	74.00	30.46	H
9920.000	45.51	-33.25	37.14	41.61	74.00	28.49	V
12400.000	46.36	-31.25	38.90	38.71	74.00	27.64	V

$\pi/4$ 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)
2382.786	55.50	4.60	27.43	23.47	74.00	18.50	H
2384.410	55.30	4.60	27.43	23.27	74.00	18.70	H
4804.000	40.58	-36.04	33.80	42.82	74.00	33.42	H
7206.000	42.45	-34.58	35.42	41.61	74.00	31.55	V
9608.000	45.22	-33.50	36.72	42.01	74.00	28.78	V
12010.000	46.17	-31.69	38.81	39.06	74.00	27.83	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)
2373.450	44.60	-36.69	31.53	49.76	74.00	29.40	H
2500.150	46.33	-36.50	32.20	50.63	74.00	27.67	H
4882.000	40.23	-35.77	33.80	42.20	74.00	33.77	H
7323.000	43.80	-34.21	35.55	42.46	74.00	30.20	V
9764.000	43.90	-33.57	37.03	40.44	74.00	30.10	V
12205.000	45.70	-31.58	38.80	38.48	74.00	28.30	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)
2483.505	58.22	4.65	27.87	25.70	74.00	15.78	H
2487.255	58.35	4.64	27.90	25.81	74.00	15.65	H
4960.000	40.49	-35.60	33.88	42.21	74.00	33.51	H
7440.000	42.64	-34.17	35.50	41.31	74.00	31.36	V
9920.000	43.57	-33.25	37.14	39.68	74.00	30.43	V
12400.000	45.99	-31.25	38.90	38.34	74.00	28.01	V

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)
2380.882	55.22	4.59	27.44	23.19	74.00	18.78	H
2383.878	54.91	4.60	27.43	22.88	74.00	19.09	V
4804.000	39.79	-36.04	33.80	42.03	74.00	34.21	V
7206.000	42.74	-34.58	35.42	41.90	74.00	31.26	V
9608.000	44.77	-33.50	36.72	41.56	74.00	29.23	H
12010.000	46.96	-31.69	38.81	39.85	74.00	27.04	H

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)
2376.750	44.84	-36.33	31.58	49.60	74.00	29.16	V
2498.750	45.91	-36.48	32.20	50.20	74.00	28.09	V
4882.000	39.71	-35.77	33.80	41.68	74.00	34.29	H
7323.000	42.63	-34.21	35.55	41.29	74.00	31.37	V
9764.000	43.93	-33.57	37.03	40.46	74.00	30.07	V
12205.000	45.60	-31.58	38.80	38.38	74.00	28.40	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)
2483.645	58.18	4.65	27.87	25.66	74.00	15.82	V
2483.850	57.28	4.65	27.87	24.76	74.00	16.72	V
4960.000	39.45	-35.60	33.88	41.18	74.00	34.55	V
7440.000	41.31	-34.17	35.50	39.98	74.00	32.69	V
9920.000	43.66	-33.25	37.14	39.77	74.00	30.34	H
12400.000	45.46	-31.25	38.90	37.81	74.00	28.54	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)
2383.912	42.19	4.60	27.43	10.16	54.00	11.81	V
2384.700	42.20	4.60	27.43	10.17	54.00	11.80	V
4804.000	28.17	-36.04	33.80	30.41	54.00	25.83	H
7206.100	30.33	-34.58	35.42	29.49	54.00	23.67	H
9607.900	32.04	-33.50	36.72	28.82	54.00	21.96	V
12010.000	33.95	-31.69	38.81	26.83	54.00	20.05	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)
2437.912	42.23	4.66	27.55	10.02	54.00	11.77	V
2443.725	42.53	4.67	27.58	10.29	54.00	11.47	V
4882.000	28.84	-35.77	33.80	30.81	54.00	25.16	H
7323.100	30.79	-34.21	35.55	29.45	54.00	23.21	V
9763.900	31.64	-33.57	37.03	28.18	54.00	22.36	H
12205.000	33.52	-31.58	38.80	26.30	54.00	20.48	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)
2483.588	43.05	4.65	27.87	10.53	54.00	10.95	V
2483.512	43.12	4.65	27.87	10.60	54.00	10.88	V
4960.000	28.48	-35.60	33.88	30.21	54.00	25.52	V
7440.100	29.95	-34.17	35.50	28.62	54.00	24.05	V
9919.900	32.21	-33.25	37.14	28.32	54.00	21.79	V
12400.000	34.15	-31.25	38.90	26.50	54.00	19.85	H

$\pi/4$ 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)
2341.912	42.64	4.53	27.48	10.63	54.00	11.36	V
2383.387	42.40	4.60	27.43	10.37	54.00	11.60	V
4804.000	28.14	-36.04	33.80	30.38	54.00	25.86	V
7206.100	30.37	-34.58	35.42	29.53	54.00	23.63	V
9607.900	32.00	-33.50	36.72	28.78	54.00	22.00	H
12010.000	34.06	-31.69	38.81	26.94	54.00	19.94	V

 $\pi/4$ 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)
2434.613	42.72	4.66	27.54	10.53	54.00	11.28	V
2446.613	43.25	4.67	27.59	11.00	54.00	10.75	V
4882.000	28.68	-35.77	33.80	30.65	54.00	25.32	H
7323.100	30.78	-34.21	35.55	29.44	54.00	23.22	V
9763.900	31.59	-33.57	37.03	28.12	54.00	22.41	V
12205.000	33.55	-31.58	38.80	26.34	54.00	20.45	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)
2483.512	42.53	4.65	27.87	10.01	54.00	11.47	V
2483.662	42.53	4.65	27.87	10.01	54.00	11.47	V
4960.000	28.63	-35.60	33.88	30.36	54.00	25.37	H
7440.000	30.04	-34.17	35.50	28.71	54.00	23.96	V
9919.900	32.28	-33.25	37.14	28.39	54.00	21.72	V
12400.000	34.13	-31.25	38.90	26.48	54.00	19.87	V

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)
2341.912	42.63	4.53	27.48	10.62	54.00	11.37	V
2389.012	42.28	4.61	27.42	10.24	54.00	11.72	V
4804.000	28.17	-36.04	33.80	30.41	54.00	25.83	H
7206.100	30.31	-34.58	35.42	29.47	54.00	23.69	H
9607.900	31.91	-33.50	36.72	28.69	54.00	22.09	H
12010.000	33.94	-31.69	38.81	26.83	54.00	20.06	H

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)
2436.000	43.22	4.66	27.54	11.02	54.00	10.78	V
2446.012	43.23	4.67	27.58	10.98	54.00	10.77	V
4882.000	28.50	-35.77	33.80	30.48	54.00	25.50	V
7323.100	30.82	-34.21	35.55	29.48	54.00	23.18	H
9763.900	31.58	-33.57	37.03	28.11	54.00	22.42	V
12205.000	33.65	-31.58	38.80	26.43	54.00	20.35	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)
2483.512	43.73	4.65	27.87	11.21	54.00	10.27	V
2483.625	43.73	4.65	27.87	11.21	54.00	10.27	V
4960.000	28.39	-35.60	33.88	30.11	54.00	25.61	V
7440.100	30.04	-34.17	35.50	28.71	54.00	23.96	H
9199.000	32.29	-33.72	36.30	29.71	54.00	21.71	V
12400.000	34.20	-31.25	38.90	26.55	54.00	19.80	V

Note: the spurious emission above 18G is noise only.

Conclusion: Pass

SPEED

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)
2388.480	54.34	4.61	27.42	22.31	74.00	19.66	V
2389.890	54.94	4.62	27.42	22.90	74.00	19.06	H
4804.000	40.47	-36.04	33.80	42.70	74.00	33.53	H
7206.000	42.13	-34.58	35.42	41.29	74.00	31.87	V
9608.000	43.69	-33.50	36.72	40.47	74.00	30.31	V
12010.000	46.56	-31.69	38.81	39.44	74.00	27.44	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)
2375.400	44.62	-36.65	31.56	49.71	74.00	29.38	V
2501.400	46.16	-36.53	32.20	49.71	74.00	27.84	H
4882.000	40.14	-35.77	33.80	42.11	74.00	33.86	H
7323.000	42.59	-34.21	35.55	41.25	74.00	31.41	V
9764.000	43.56	-33.57	37.03	40.09	74.00	30.44	H
12205.000	46.15	-31.58	38.80	38.93	74.00	27.85	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)
2483.580	55.38	4.65	27.87	22.86	74.00	18.62	V
2483.665	55.95	4.65	27.87	23.42	74.00	18.05	V
4960.000	39.99	-35.60	33.88	41.72	74.00	34.01	H
7440.000	40.90	-34.17	35.50	39.57	74.00	33.10	H
9920.000	43.10	-33.25	37.14	39.21	74.00	30.90	V
12400.000	45.95	-31.25	38.90	38.30	74.00	28.05	H

$\pi/4$ 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)
2387.966	54.43	4.61	27.42	22.40	74.00	19.57	H
2388.890	54.31	4.61	27.42	22.27	74.00	19.69	H
4804.000	40.34	-36.04	33.80	42.57	74.00	33.66	V
7206.000	41.22	-34.58	35.42	40.38	74.00	32.78	V
9608.000	42.61	-33.50	36.72	39.39	74.00	31.39	V
12010.000	45.56	-31.69	38.81	38.45	74.00	28.44	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)
2371.200	44.72	-36.74	31.50	49.71	74.00	29.28	V
2500.400	46.20	-36.51	32.20	49.71	74.00	27.80	V
4882.000	40.28	-35.77	33.80	42.25	74.00	33.72	H
7323.000	41.88	-34.21	35.55	40.54	74.00	32.12	H
9764.000	43.05	-33.57	37.03	39.59	74.00	30.95	V
12205.000	44.62	-31.58	38.80	37.40	74.00	29.38	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)
2483.665	56.09	4.65	27.87	23.57	74.00	17.91	H
2484.655	55.84	4.65	27.88	23.31	74.00	18.16	H
4960.000	39.74	-35.60	33.88	41.46	74.00	34.26	H
7440.000	40.96	-34.17	35.50	39.63	74.00	33.04	V
9920.000	42.33	-33.25	37.14	38.44	74.00	31.67	V
12400.000	45.25	-31.25	38.90	37.60	74.00	28.75	H

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)
2385.334	55.69	4.60	27.43	23.66	74.00	18.31	H
2388.750	54.69	4.61	27.42	22.65	74.00	19.31	V
4804.000	39.12	-36.04	33.80	41.35	74.00	34.88	V
7206.000	41.23	-34.58	35.42	40.39	74.00	32.77	V
9608.000	42.60	-33.50	36.72	39.39	74.00	31.40	H
12010.000	45.33	-31.69	38.81	38.22	74.00	28.67	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)
2376.000	44.97	-36.63	31.57	49.71	74.00	29.03	V
2499.000	45.78	-36.48	32.20	49.71	74.00	28.22	H
4882.000	39.99	-35.77	33.80	41.96	74.00	34.01	V
7323.000	41.78	-34.21	35.55	40.44	74.00	32.22	H
9764.000	42.55	-33.57	37.03	39.08	74.00	31.45	H
12205.000	44.15	-31.58	38.80	36.93	74.00	29.85	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)
2483.645	55.78	4.65	27.87	23.26	74.00	18.22	H
2483.700	55.51	4.65	27.87	22.99	74.00	18.49	V
4960.000	38.85	-35.60	33.88	40.58	74.00	45.73	H
7440.000	41.30	-34.17	35.50	39.97	74.00	44.24	H
9920.000	43.65	-33.25	37.14	39.76	74.00	41.96	H
12400.000	45.39	-31.25	38.90	37.74	74.00	39.99	H

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)
2386.762	40.29	4.61	27.43	8.26	54.00	13.71	V
2389.762	40.19	4.61	27.42	8.16	54.00	13.81	V
4804.000	28.56	-36.04	33.80	30.80	54.00	25.44	H
7206.100	30.07	-34.58	35.42	29.23	54.00	23.93	H
9607.900	32.10	-33.50	36.72	28.88	54.00	21.90	V
12010.000	33.98	-31.69	38.81	26.86	54.00	20.02	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)
2483.713	42.44	4.65	27.87	9.92	54.00	11.56	V
2444.850	42.41	4.67	27.58	10.16	54.00	11.59	V
4882.000	28.63	-35.77	33.80	30.60	54.00	25.37	H
7323.100	30.39	-34.21	35.55	29.05	54.00	23.61	V
9763.900	31.62	-33.57	37.03	28.16	54.00	22.38	H
12205.000	33.38	-31.58	38.80	26.17	54.00	20.62	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)
2483.625	42.58	4.65	27.87	10.06	54.00	11.42	V
2484.450	42.64	4.65	27.88	10.11	54.00	11.36	V
4960.000	28.34	-35.60	33.88	30.06	54.00	25.66	H
7440.100	29.71	-34.17	35.50	28.38	54.00	24.29	V
9919.900	32.08	-33.25	37.14	28.18	54.00	21.92	V
12400.000	33.99	-31.25	38.90	26.34	54.00	20.01	H

$\pi/4$ 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)
2388.863	40.21	4.61	27.42	8.17	54.00	13.79	V
2389.912	40.26	4.62	27.42	8.23	54.00	13.74	V
4804.000	28.45	-36.04	33.80	30.69	54.00	25.55	H
7206.100	30.11	-34.58	35.42	29.27	54.00	23.89	V
9607.900	31.90	-33.50	36.72	28.68	54.00	22.10	V
12010.000	34.07	-31.69	38.81	26.95	54.00	19.93	V

 $\pi/4$ 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)
2483.550	42.46	4.65	27.87	9.94	54.00	11.54	V
2483.775	42.48	4.65	27.87	9.96	54.00	11.52	V
4882.000	28.60	-35.77	33.80	30.57	54.00	25.40	H
7323.100	30.43	-34.21	35.55	29.09	54.00	23.57	H
9763.900	31.65	-33.57	37.03	28.19	54.00	22.35	V
12205.000	33.51	-31.58	38.80	26.29	54.00	20.49	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)
2484.450	42.52	4.65	27.88	10.00	54.00	11.48	V
2484.675	42.53	4.65	27.88	10.01	54.00	11.47	V
4960.000	28.10	-35.60	33.88	29.83	54.00	25.90	H
7440.100	29.62	-34.17	35.50	28.29	54.00	24.38	H
9919.900	32.05	-33.25	37.14	28.16	54.00	21.95	H
12400.000	33.95	-31.25	38.90	26.31	54.00	20.05	H

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)
2389.050	40.15	4.61	27.42	8.11	54.00	13.85	V
2389.200	40.33	4.61	27.42	8.30	54.00	13.67	V
4804.000	28.45	-36.04	33.80	30.69	54.00	25.55	V
7206.100	30.12	-34.58	35.42	29.28	54.00	23.88	H
9607.900	32.03	-33.50	36.72	28.81	54.00	21.97	H
12010.000	34.12	-31.69	38.81	27.00	54.00	19.88	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)
2484.375	42.57	4.65	27.88	10.04	54.00	11.43	V
2484.900	42.42	4.65	27.88	9.89	54.00	11.58	V
4882.000	28.59	-35.77	33.80	30.56	54.00	25.41	V
7323.100	30.53	-34.21	35.55	29.19	54.00	23.47	H
9763.900	31.74	-33.57	37.03	28.27	54.00	22.26	V
12205.000	33.62	-31.58	38.80	26.40	54.00	20.38	H

8DPSK Ch 78

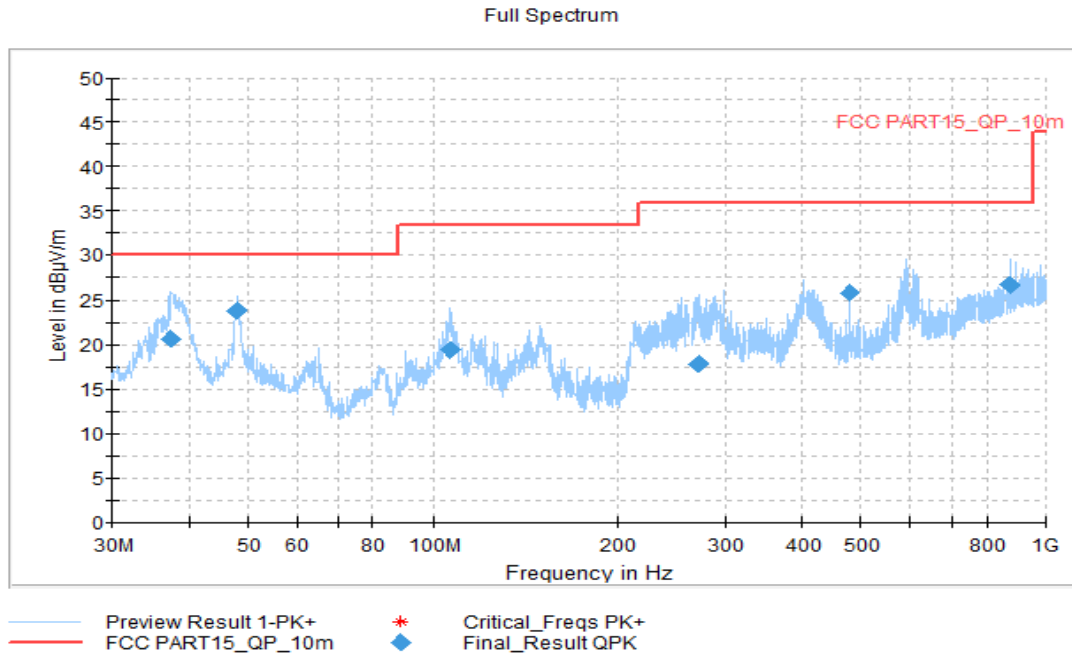
Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
2484.750	42.55	4.65	27.88	10.02	54.00	11.45	V
2485.688	42.54	4.65	27.89	10.01	54.00	11.46	V
4960.000	28.27	-35.60	33.88	30.00	54.00	25.73	V
7440.100	29.76	-34.17	35.50	28.43	54.00	24.24	H
9919.900	32.04	-33.25	37.14	28.14	54.00	21.96	H
12400.000	34.01	-31.25	38.90	26.36	54.00	19.99	V

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

Conclusion: Pass

C.1.2 Radiated Spurious Emission- Below 1GHz

WOSRT CASE BELOW 1GHz



Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)
37.46900	20.37	30.00	9.63	120.000	215.0	V	0.0
47.94500	23.77	30.00	6.23	120.000	313.0	H	26.0
106.4360	19.33	33.52	14.19	120.000	225.0	V	118.0
271.0450	17.82	36.02	18.20	120.000	125.0	V	196.0
479.9830	25.50	36.02	10.52	120.000	187.0	H	262.0
873.9970	26.70	36.02	9.32	120.000	125.0	H	146.0

Note: 10 meters' limit is got by converting from 3 meters test distance.

Limit (10m) = limit (3m) + 20(log (3/10))

BELOW 30MHz

No emissions were found within 20dB of the limit below 30MHz.

C.1.3 Band Edges Compliance– Radiated

INNOWAVE

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

SPEED

Mode	Channel	Frequency Range	Test Results	Conclusion
GFSK	0	2.31GHz ~2.45GHz	Fig.7	P
	78	2.45GHz ~2.5GHz	Fig.8	P

Mode	Channel	Frequency Range	Test Results	Conclusion
$\pi/4$ DQPSK	0	2.31GHz ~2.43GHz	Fig.9	P
	78	2.45GHz ~2.5GHz	Fig.10	P

Mode	Channel	Frequency Range	Test Results	Conclusion
8DPSK	0	2.31GHz ~2.45GHz	Fig.11	P
	78	2.45GHz ~2.5GHz	Fig.12	P

Conclusion: PASS

Test graphs as below

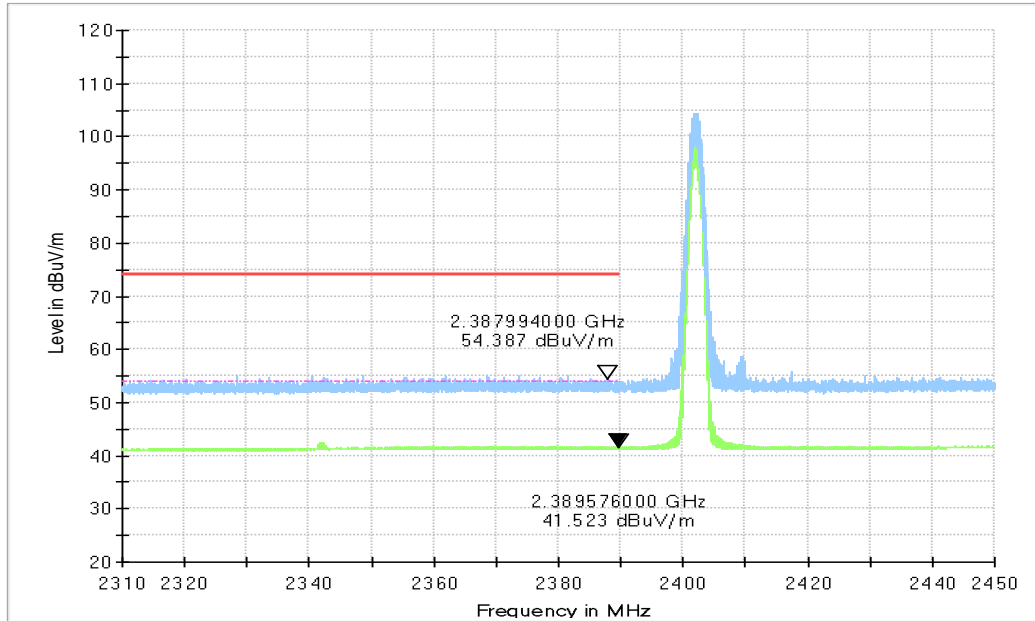


Fig.1. Frequency Band Edges: GFSK, Channel 0, 2.31 GHz – 2.45GHz

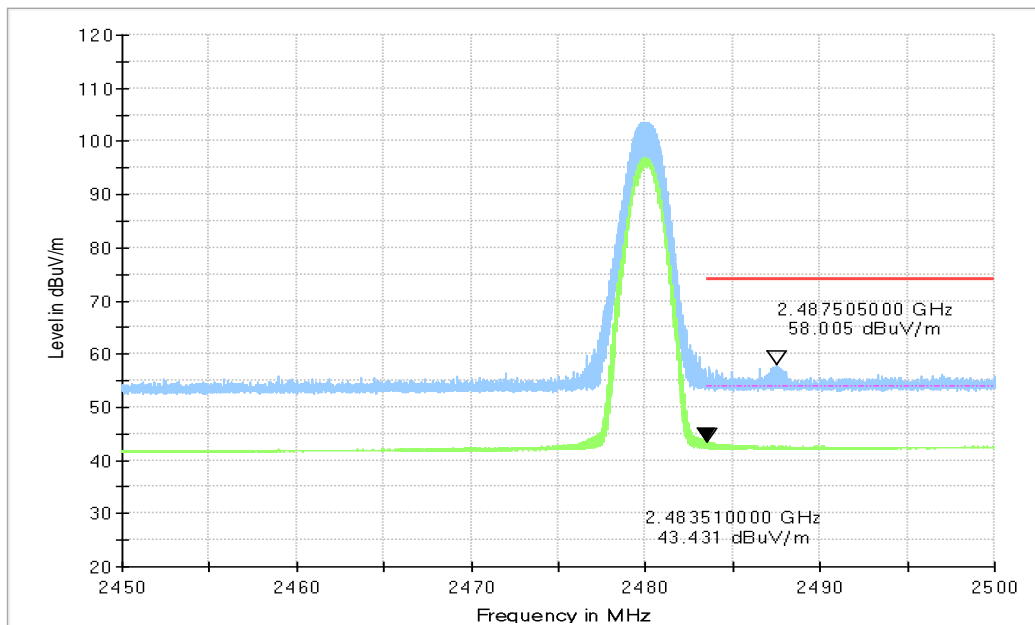


Fig.2. Frequency Band Edges: GFSK, Channel 78, 2.45 GHz - 2.50GHz

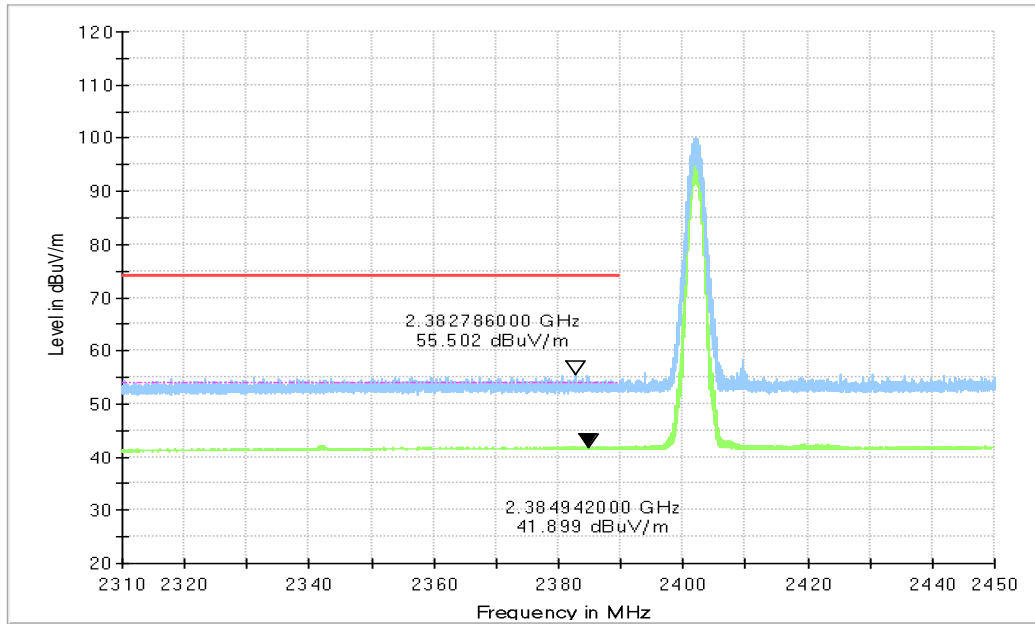


Fig.3. Frequency Band Edges: $\pi/4$ DQPSK, Channel 0, H2.31 GHz - 2.45GHz

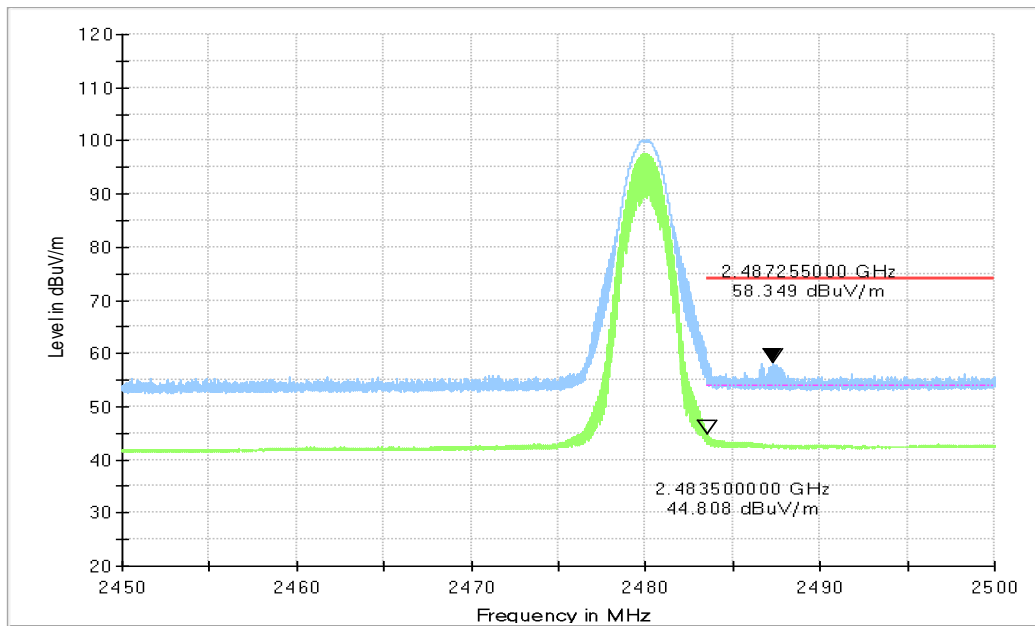


Fig.4. Frequency Band Edges: $\pi/4$ DQPSK, Channel 78, 2.45 GHz - 2.50GHz

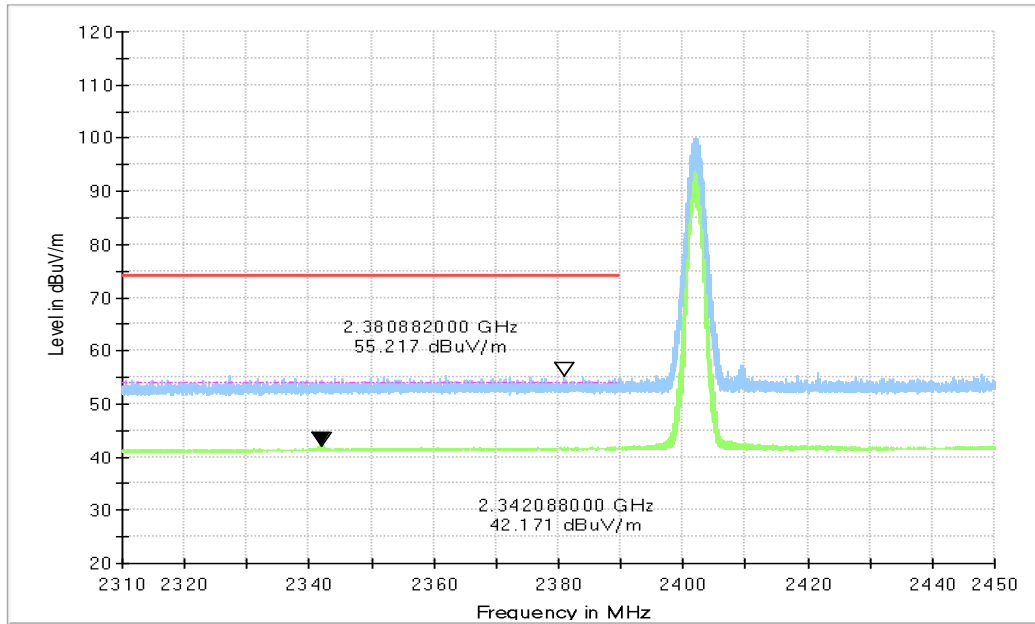


Fig.5. Frequency Band Edges: 8DPSK, Channel 0, 2.31 GHz - 2.45GHz

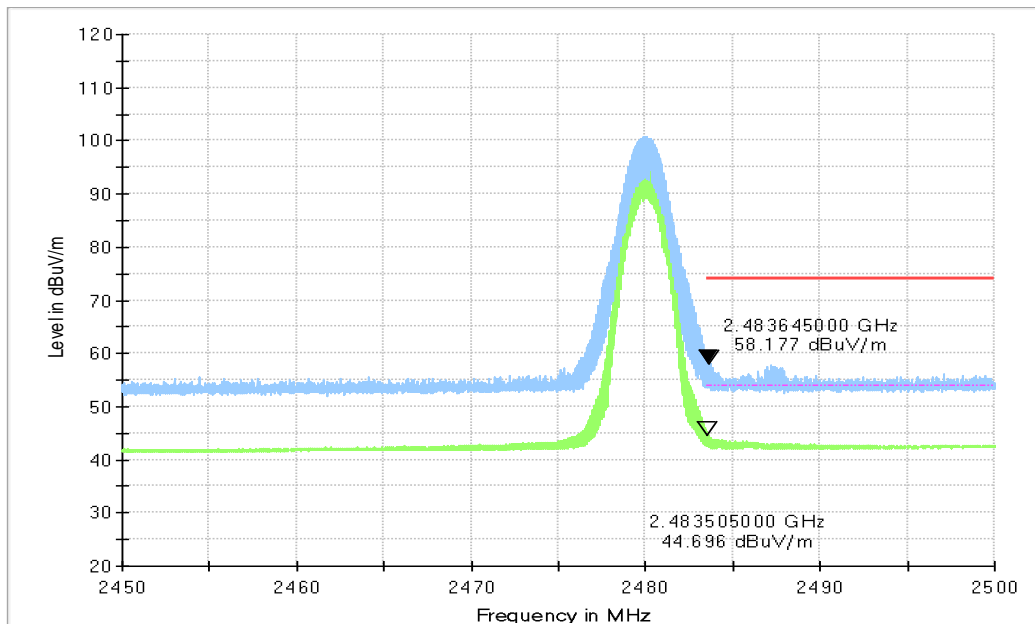


Fig.6. Frequency Band Edges: 8DPSK, Channel 78, 2.45 GHz - 2.50GHz

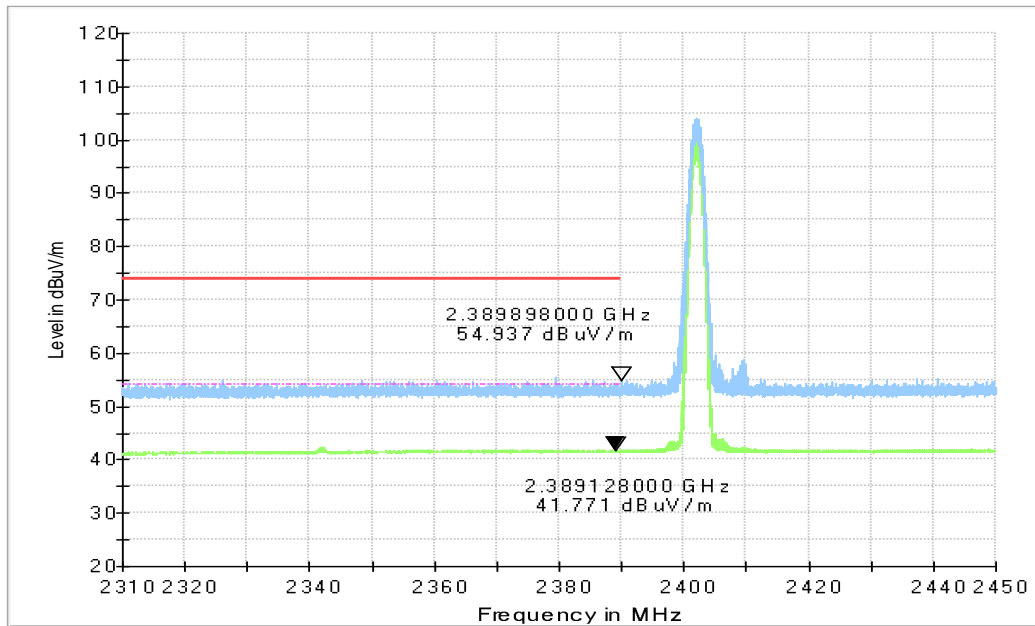


Fig.7. Frequency Band Edges: GFSK, Channel 0, 2.31 GHz – 2.45GHz

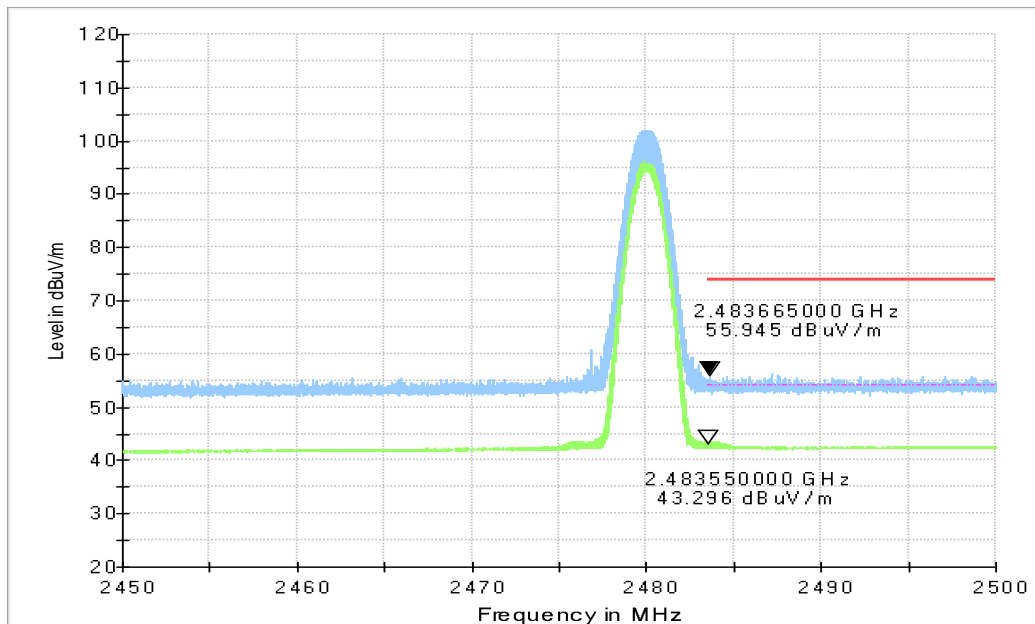


Fig.8. Frequency Band Edges: GFSK, Channel 78, 2.45 GHz - 2.50GHz

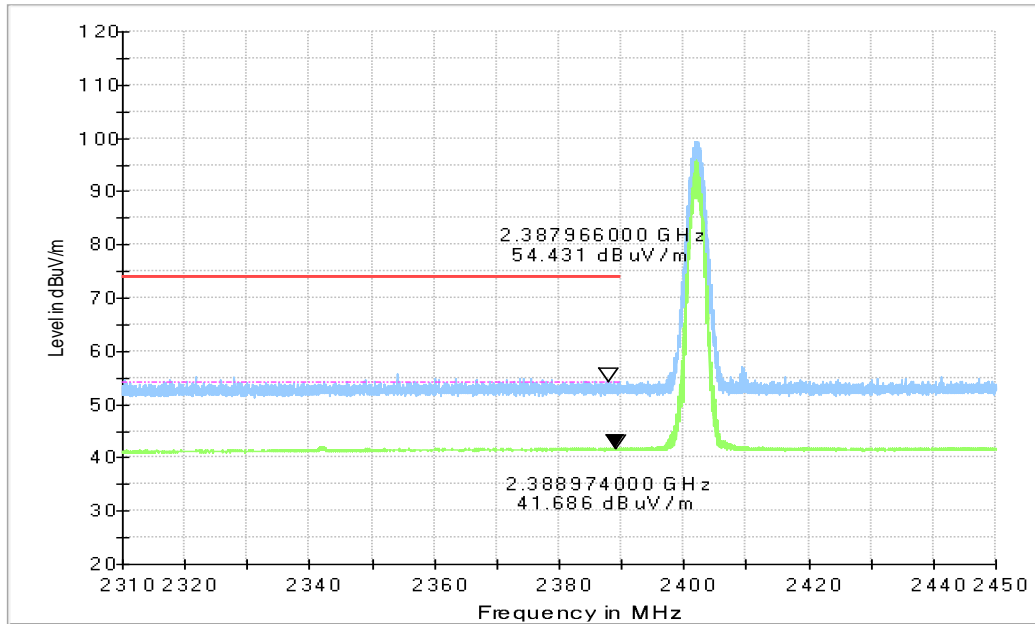


Fig.9. Frequency Band Edges: $\pi/4$ DQPSK, Channel 0, H2.31 GHz - 2.45GHz

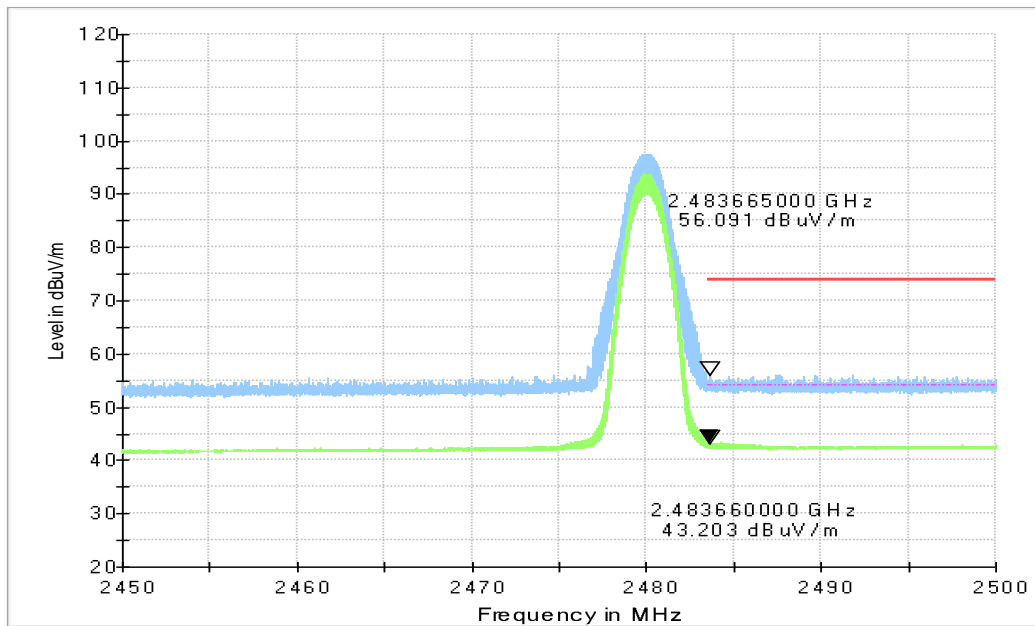


Fig.10. Frequency Band Edges: $\pi/4$ DQPSK, Channel 78, 2.45 GHz - 2.50GHz

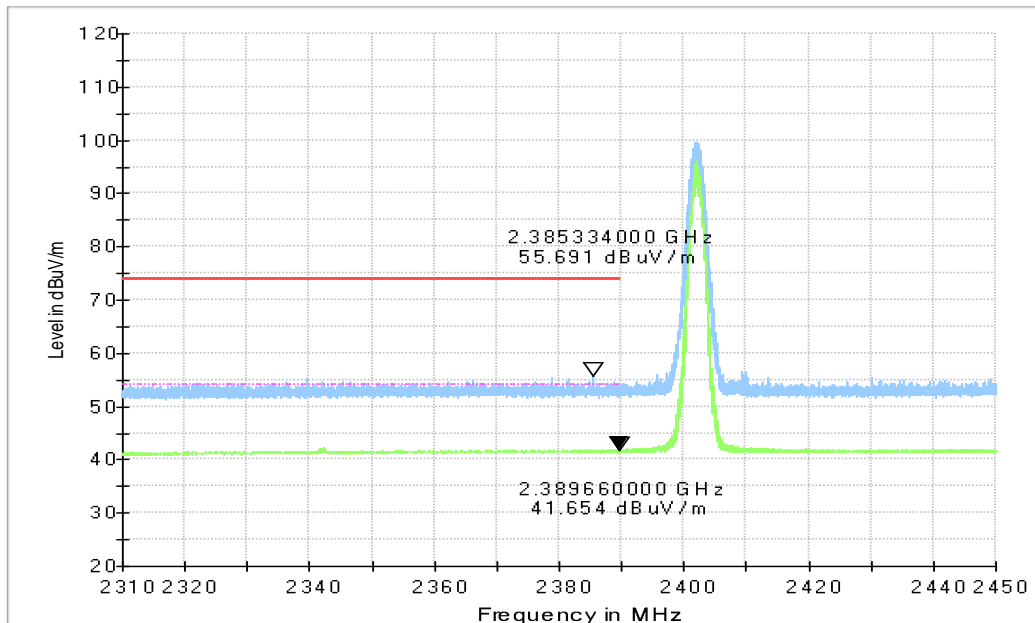


Fig.11. Frequency Band Edges: 8DPSK, Channel 0, 2.31 GHz - 2.45GHz

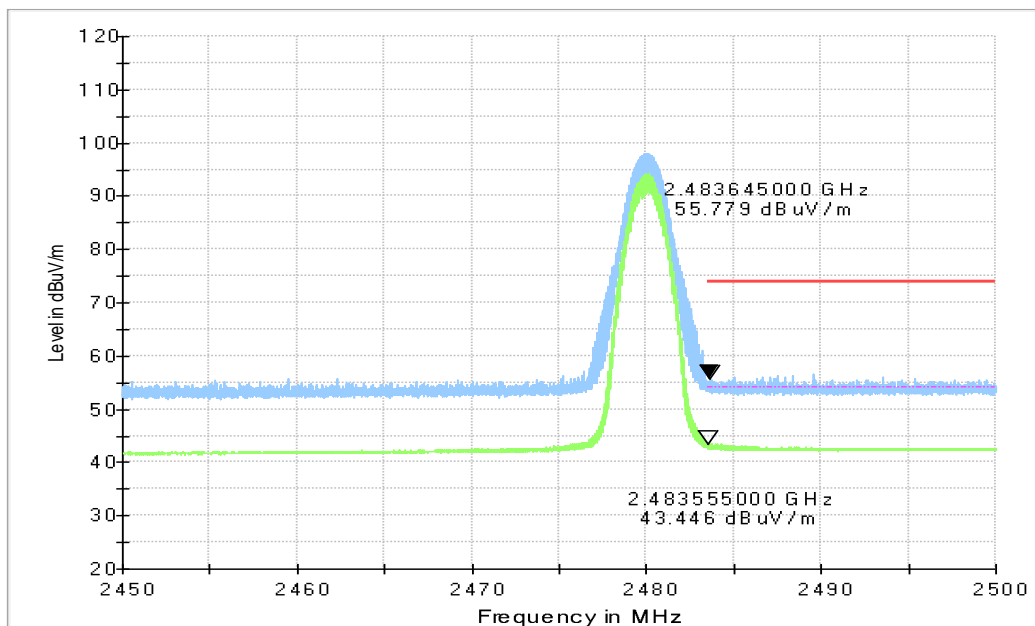


Fig.12. Frequency Band Edges: 8DPSK, Channel 78, 2.45 GHz - 2.50GHz

C.2. AC Powerline Conducted Emission

Specification Reference

FCC 47 CFR Part 15.207, 15.107

Method of Measurement:

See Clause 6.2 of ANSI C63.10-2013 specifically.

See Clause 4 and Clause 5 of ANSI C63.10-2013 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.

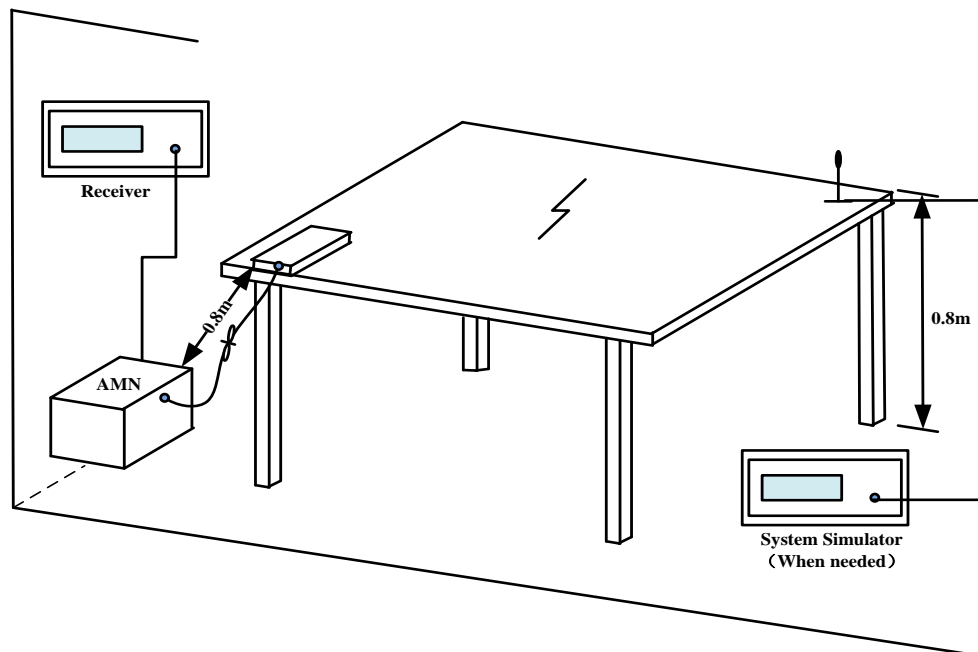
The measurement bandwidth is:

Frequency of Emission (MHz)	RBW/IF bandwidth	Sweep Time(s)
0.15-30	9kHz	1

Test Condition:

Voltage (V)	Frequency (Hz)
120	60

Measurement Setup



EUT Operating Mode and Test Conditions

The measurement of EUT is carried out under transmitting state.

The EUT is powered by an AC/DC travel adapter.

Measurement Result and limit:

Bluetooth (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Result (dB μ V)		Conclusion
		With charger		
		Bluetooth	Idle	
0.15 to 0.5	66 to 56	Fig.C.2.1	Fig.C.2.2	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 (dB μ V)	Result (dB μ V)		Conclusion
		With charger		
		Bluetooth	Idle	
0.15 to 0.5	56 to 46	Fig.C.2.1	Fig.C.2.2	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.

Note: all modes have been tested and the worst results shown here.

Conclusion: Pass
Test graphs as below:

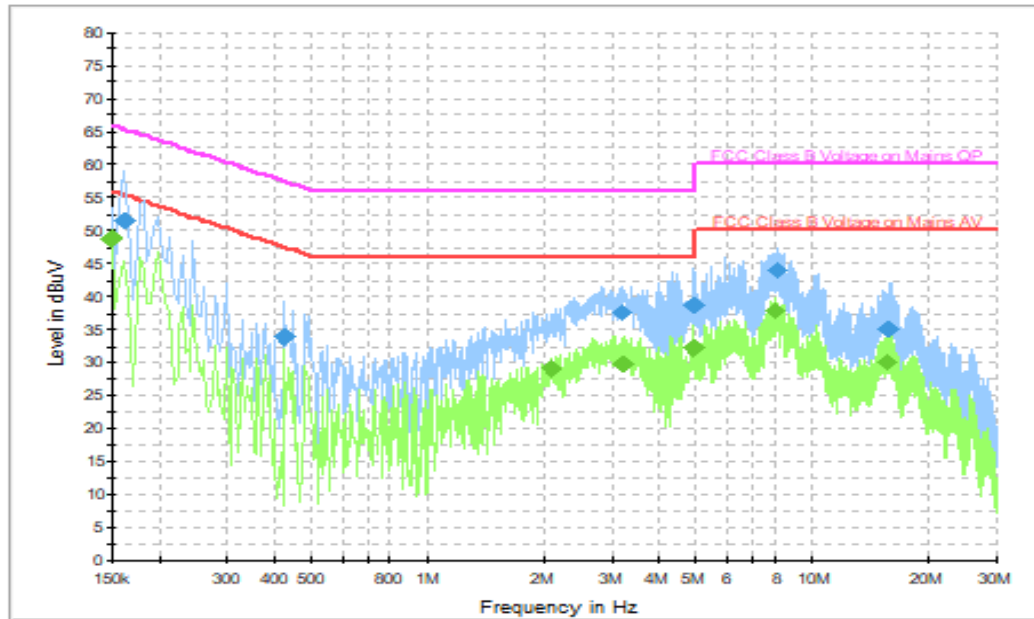


Fig.C.2.1 AC Power line Conducted Emission- Bluetooth

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

Final Result 1

Frequency (MHz)	QuasiPeak (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.162000	51.3	5000.0	9.000	N	20.0	7.1	56.0
0.426000	33.9	5000.0	9.000	N	19.6	17.0	46.0
3.206000	37.7	5000.0	9.000	N	19.6	16.4	46.0
4.906000	38.7	5000.0	9.000	L1	19.6	13.8	46.0
8.114000	44.1	5000.0	9.000	L1	19.7	12.1	50.0
15.822000	35.0	5000.0	9.000	L1	19.7	20.0	50.0

Final Result 2

Frequency (MHz)	Average (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.150000	48.9	5000.0	9.000	L1	20.0	29.9	55.0
2.090000	29.0	5000.0	9.000	N	19.9	28.3	48.2
3.246000	29.6	5000.0	9.000	N	19.9	28.0	46.9
4.906000	32.2	5000.0	9.000	L1	19.6	23.3	46.0
8.014000	37.9	5000.0	9.000	L1	19.7	23.9	50.0
15.626000	30.0	5000.0	9.000	L1	19.7	23.2	50.0

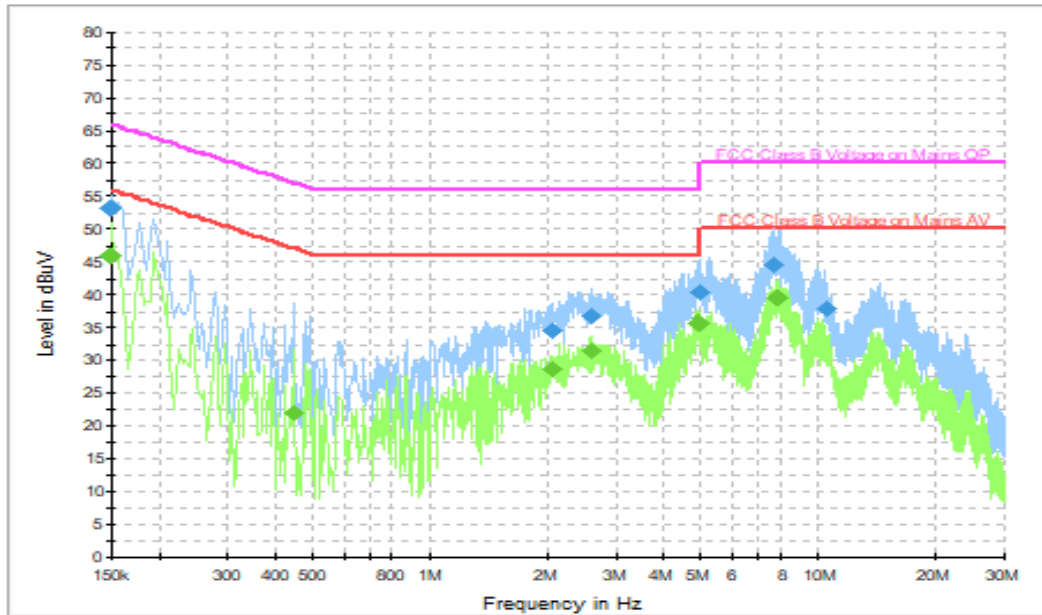


Fig.C.2.2 AC Power line Conducted Emission-Idle

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 (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	53.1	5000.	9.000	L1	20.0	12.9	66.0
2.062000	34.6	5000.	9.000	L1	19.6	21.4	56.0
2.614000	36.7	5000.	9.000	N	19.6	19.3	56.0
4.970000	40.1	5000.	9.000	N	19.6	15.9	56.0
7.694000	44.6	5000.	9.000	N	19.6	15.4	60.0
10.450000	37.8	5000.	9.000	N	19.7	22.2	60.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	46.0	5000.0	9.000	L1	20.0	10.0	56.0
0.442000	21.9	5000.0	9.000	L1	19.7	25.1	47.0
2.062000	28.5	5000.0	9.000	L1	19.6	17.5	46.0
2.626000	31.3	5000.0	9.000	L1	19.6	14.7	46.0
4.910000	35.8	5000.0	9.000	N	19.6	10.2	46.0
7.842000	39.5	5000.0	9.000	N	19.6	10.5	50.0

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