

FCC Test Report

Report No.: RFBGTL-WTW-P20100273-1

FCC ID: RX3-WBU053VZBT

Test Model: WBU053-VZBT

Received Date: Oct. 21, 2020

Test Date: Oct. 22 ~ Oct. 28, 2020

Issued Date: Nov. 06, 2020

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(R.O.C.)

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FCC Registration /
Designation Number: 788550 / TW0003



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Table of Contents

Release Control Record	4
1 Certificate of Conformity	5
2 Summary of Test Results.....	6
2.1 Measurement Uncertainty.....	6
2.2 Modification Record	6
3 General Information	7
3.1 General Description of EUT	7
3.2 Description of Test Modes.....	8
3.2.1 Test Mode Applicability and Tested Channel Detail.....	9
3.3 Duty Cycle of Test Signal	13
3.4 Description of Support Units	14
3.4.1 Configuration of System under Test	14
3.5 General Description of Applied Standards and References	14
4 Test Types and Results	15
4.1 Radiated Emission and Bandedge Measurement	15
4.1.1 Limits of Radiated Emission and Bandedge Measurement	15
4.1.2 Test Instruments	16
4.1.3 Test Procedures.....	17
4.1.4 Deviation from Test Standard	17
4.1.5 Test Set Up	18
4.1.6 EUT Operating Conditions.....	19
4.1.7 Test Results	20
4.2 Conducted Emission Measurement.....	40
4.2.1 Limits of Conducted Emission Measurement	40
4.2.2 Test Instruments	40
4.2.3 Test Procedures.....	40
4.2.4 Deviation from Test Standard	41
4.2.5 Test Setup.....	41
4.2.6 EUT Operating Conditions.....	41
4.2.7 Test Results	42
4.3 6 dB Bandwidth Measurement.....	50
4.3.1 Limits of 6 dB Bandwidth Measurement.....	50
4.3.2 Test Setup.....	50
4.3.3 Test Instruments	50
4.3.4 Test Procedure	50
4.3.5 Deviation from Test Standard	50
4.3.6 EUT Operating Conditions.....	50
4.3.7 Test Results	51
4.4 Occupied Bandwidth Measurement.....	53
4.4.1 Test Setup.....	53
4.4.2 Test Instruments	53
4.4.3 Test Procedure	53
4.4.4 Deviation from Test Standard	53
4.4.5 EUT Operating Conditions.....	53
4.4.6 Test Results	54
4.5 Conducted Output Power Measurement	56
4.5.1 Limits of Conducted Output Power Measurement.....	56
4.5.2 Test Setup.....	56
4.5.3 Test Instruments	56
4.5.4 Test Procedures.....	56
4.5.5 Deviation from Test Standard	56
4.5.6 EUT Operating Conditions.....	56
4.5.7 Test Results	57

4.6	Power Spectral Density Measurement	58
4.6.1	Limits of Power Spectral Density Measurement.....	58
4.6.2	Test Setup.....	58
4.6.3	Test Instruments	58
4.6.4	Test Procedure	58
4.6.5	Deviation from Test Standard	58
4.6.6	EUT Operating Condition	58
4.6.7	Test Results	59
4.7	Conducted Out of Band Emission Measurement	61
4.7.1	Limits of Conducted Out of Band Emission Measurement.....	61
4.7.2	Test Setup.....	61
4.7.3	Test Instruments	61
4.7.4	Test Procedure	61
4.7.5	Deviation from Test Standard	61
4.7.6	EUT Operating Condition	61
4.7.7	Test Results	62
5	Pictures of Test Arrangements.....	64
	Annex A- Band Edge Measurement	65
	Appendix – Information of the Testing Laboratories	69

Release Control Record

Issue No.	Description	Date Issued
RFBGTL-WTW-P20100273-1	Original Release	Nov. 06, 2020

1 Certificate of Conformity

Product: 802.11a/b/g/n 2T2R with Bluetooth combo wireless module

Brand: Foxconn

Test Model: WBU053-VZBT

Sample Status: Engineering Sample

Applicant: Hon Hai Precision Industry Co., Ltd.

Test Date: Oct. 22 ~ Oct. 28, 2020

Standards: 47 CFR FCC Part 15, Subpart C (Section 15.247)
ANSI C63.10:2013

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Prepared by : Gina Liu, **Date:** Nov. 06, 2020
Gina Liu / Specialist

Approved by : Dylan Chiou, **Date:** Nov. 06, 2020
Dylan Chiou / Senior Project Engineer

2 Summary of Test Results

47 CFR FCC Part 15, Subpart C (Section 15.247)			
FCC Clause	Test Item	Result	Remarks
15.207	AC Power Conducted Emission	Pass	Meet the requirement of limit. Minimum passing margin is -14.43 dB at 0.44978 MHz.
15.205 & 209	Radiated Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -2.02 dB at 144.46 MHz.
15.247(d)	Band Edge Measurement	Pass	Meet the requirement of limit.
15.247(d)	Antenna Port Emission	Pass	Meet the requirement of limit.
15.247(a)(2)	6 dB Bandwidth	Pass	Meet the requirement of limit.
---	Occupied Bandwidth Measurement	Pass	Reference only
15.247(b)	Conducted Power	Pass	Meet the requirement of limit.
15.247(e)	Power Spectral Density	Pass	Meet the requirement of limit.
15.203	Antenna Requirement	Pass	No antenna connector is used.

Note:

- For 2.4G band compliance with rule 15.247(d) of the band-edge items, the test plots were recorded in Annex A. Test Procedures refer to report 4.1.3.
- Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Expanded Uncertainty (k=2) (±)
Conducted Emissions at mains ports	150 kHz ~ 30 MHz	2.79 dB
Radiated Emissions up to 1 GHz	9 kHz ~ 30 MHz	3.04 dB
	30 MHz ~ 200 MHz	2.93 dB
	200 MHz ~ 1000 MHz	2.95 dB
Radiated Emissions above 1 GHz	1 GHz ~ 18 GHz	2.26 dB
	18 GHz ~ 40 GHz	1.94 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	802.11a/b/g/n 2T2R with Bluetooth combo wireless module
Brand	Foxconn
Test Model	WBU053-VZBT
Status of EUT	Engineering Sample
Power Supply Rating	4.5 ~ 5.5 Vdc (from Host equipment)
Modulation Type	GFSK
Transfer Rate	LE 4.2: 1 Mbps LE 5.0: 2 Mbps
Operating Frequency	2402 ~ 2480 MHz
Number of Channel	40
Output Power	LE 4.2: 4.064 mW LE 5.0: 4.074. mW
Antenna Type	Refer to Note as below
Antenna Connector	N/A
Accessory Device	N/A
Data Cable Supplied	N/A

Note:

1. The antenna information is listed as below.

No.	Functionality	Manufacturer	Model	Cable Length	Type	Antenna Gain (dBi)
1	BT	Foxconn	6903B0000N000	240mm	PIFA	2.27
2			6903B0000P000	390mm		2.47

2. The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.
3. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or User's Manual.

3.2 Description of Test Modes

40 channels are provided to this EUT:

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

3.2.1 Test Mode Applicability and Tested Channel Detail

<LE 4.2>

EUT Configure Mode	Applicable To				Description
	RE $\geq$ 1G	RE<1G	PLC	APCM	
A	√	√	√	-	Ant. 1
B	√	√	√	√	Ant. 2

Where **RE $\geq$ 1G**: Radiated Emission above 1 GHz **RE<1G**: Radiated Emission below 1 GHz
PLC: Power Line Conducted Emission **APCM**: Antenna Port Conducted Measurement

Note: For radiated emission (below 1GHz) and power line conducted emission test items, the worst maximum power was selected.

Note: The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **X-plane** for Mode A and **Y-plane** for Mode B.

Note: “-” means no effect.

Radiated Emission Test (Above 1 GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Type	Data Rate (Mbps)
A, B	0 to 39	0, 19, 39	GFSK	1

Radiated Emission Test (Below 1 GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Type	Data Rate (Mbps)
A, B	0 to 39	39	GFSK	1

Power Line Conducted Emission Test:

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Type	Data Rate (Mbps)
A, B	0 to 39	39	GFSK	1

Antenna Port Conducted Measurement:

- ☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Type	Data Rate (Mbps)
B	0 to 39	0, 19, 39	GFSK	1

<LE 5.0>

EUT Configure Mode	Applicable To				Description
	RE≥1G	RE<1G	PLC	APCM	
A	√	√	√	-	Ant. 1
B	√	√	√	√	Ant. 2

Where **RE≥1G**: Radiated Emission above 1 GHz **RE<1G**: Radiated Emission below 1 GHz
PLC: Power Line Conducted Emission **APCM**: Antenna Port Conducted Measurement

Note: For radiated emission (below 1GHz) and power line conducted emission test items, the worst maximum power was selected.

Note: The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **X-plane** for Mode A and **Y-plane** for Mode B.

Note: “-” means no effect.

Radiated Emission Test (Above 1 GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Type	Data Rate (Mbps)
A, B	0 to 39	0, 19, 39	GFSK	2

Radiated Emission Test (Below 1 GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Type	Data Rate (Mbps)
A, B	0 to 39	39	GFSK	2

Power Line Conducted Emission Test:

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Type	Data Rate (Mbps)
A, B	0 to 39	39	GFSK	2

Antenna Port Conducted Measurement:

- ☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Type	Data Rate (Mbps)
B	0 to 39	0, 19, 39	GFSK	2

Test Condition:

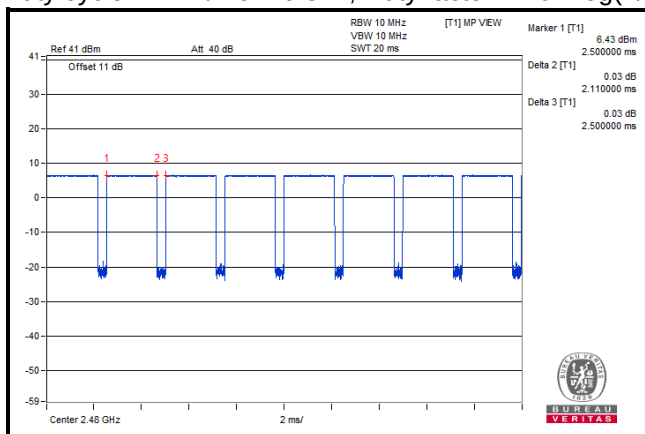
Applicable To	Environmental Conditions	Input Power	Tested by
RE $\geq$ 1G	25 deg. C, 65 % RH	120 Vac, 60 Hz	Getaz Yang
RE<1G	25 deg. C, 65 % RH	120 Vac, 60 Hz	Cyril Chen
PLC	25 deg. C, 65 % RH	120 Vac, 60 Hz	Getaz Yang
APCM	25 deg. C, 60 % RH	5 Vdc	Ivan Tseng

3.3 Duty Cycle of Test Signal

Duty cycle of test signal is < 98 %, duty factor shall be considered.

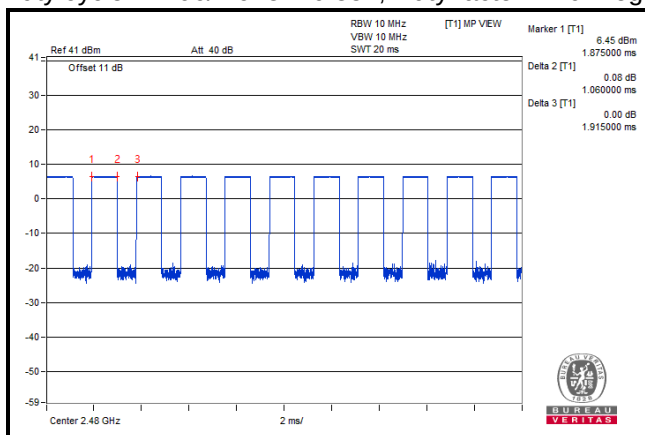
<LE 4.2>

Duty cycle = $2.11/2.5 = 0.844$, Duty factor = $10 * \log(1/0.844) = 0.74$



<LE 5.0>

Duty cycle = $1.06/1.915 = 0.554$, Duty factor = $10 * \log(1/0.554) = 2.57$



3.4 Description of Support Units

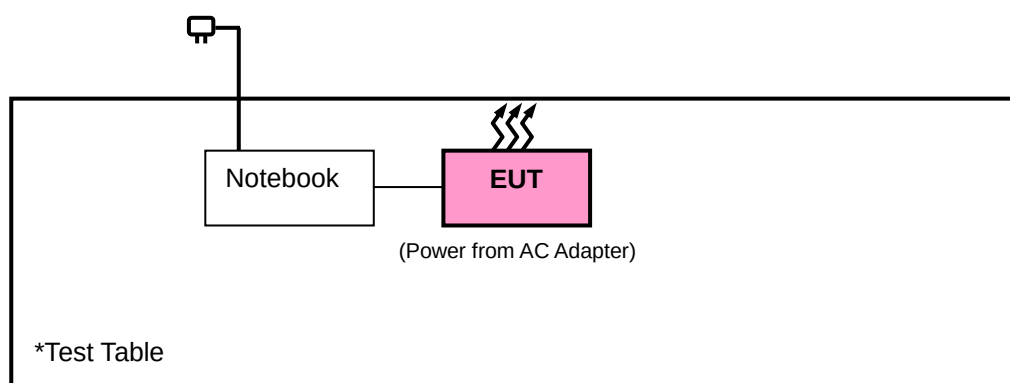
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

No.	Product	Brand	Model No.	Serial No.	FCC ID
1.	Notebook	Dell	E5420	FHP75S1	N/A

Note:

1. All power cords of the above support units are non-shielded (1.8m).
2. Item 1 acted as communication partners to transfer data.

3.4.1 Configuration of System under Test



3.5 General Description of Applied Standards and References

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards and references:

Test Standard:

FCC Part 15, Subpart C (15.247)

ANSI C63.10-2013

All test items have been performed and recorded as per the above standards.

References Test Guidance:

KDB 558074 D01 15.247 Meas Guidance v05r02

All test items have been performed as a reference to the above KDB test guidance.

4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20 dB below the highest level of the desired power:

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F (kHz)	300
0.490 ~ 1.705	24000/F (kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

Note:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Test Receiver Agilent	N9038A	MY51210203	Mar. 18, 2020	Mar. 17, 2021
Spectrum Analyzer Agilent	N9010A	MY52220314	Dec. 12, 2019	Dec. 11, 2020
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Apr. 16, 2020	Apr. 15, 2021
Spectrum Analyzer ROHDE & SCHWARZ	FSV40	100980	Apr. 20, 2020	Apr. 19, 2021
HORN Antenna SCHWARZBECK	BBHA 9120D	9120D-969	Nov. 24, 2019	Nov. 23, 2020
BILOG Antenna SCHWARZBECK	VULB 9168	9168-472	Nov. 08, 2019	Nov. 07, 2020
Fixed Attenuator WOKEN	MDCS18N-10	MDCS18N-10-01	Apr. 14, 2020	Apr. 13, 2021
Loop Antenna	EM-6879	269	Sep. 17, 2020	Sep. 16, 2021
Preamplifier EMCI	EMC001340	980201	Oct. 21, 2020	Oct. 20, 2021
Preamplifier EMCI	EMC 012645	980115	Oct. 07, 2020	Oct. 06, 2021
Preamplifier EMCI	EMC 184045	980116	Oct. 07, 2020	Oct. 06, 2021
Preamplifier EMCI	EMC 330H	980112	Oct. 07, 2020	Oct. 06, 2021
Power Meter Anritsu	ML2495A	1012010	Sep. 01, 2020	Aug. 31, 2021
Power Sensor Anritsu	MA2411B	1315050	Sep. 01, 2020	Aug. 31, 2021
RF Coaxial Cable EMCI	EMC104-SM-SM-8000	171005	Oct. 07, 2020	Oct. 06, 2021
RF Coaxial Cable HUBER+SUHNNER	SUCOFLEX 104	EMC104-SM-SM-1000(140807)	Oct. 07, 2020	Oct. 06, 2021
RF Coaxial Cable WOKEN	8D-FB	Cable-Ch10-01	Oct. 07, 2020	Oct. 06, 2021
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
Software BV ADT	E3 6.120103	NA	NA	NA
Antenna Tower MF	MFA-440H	NA	NA	NA
Turn Table MF	MFT-201SS	NA	NA	NA
Antenna Tower & Turn Table Controller MF	MF-7802	NA	NA	NA
USB Wideband Power Sensor KEYSIGHT	U2021XA	MY55050005/MY55190004/MY55190007/MY55210005	Jul. 13, 2020	Jul. 12, 2021

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. The test was performed in HwaYa Chamber 10.

4.1.3 Test Procedures

For Radiated Emission below 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz at frequency below 30 MHz.

For Radiated Emission above 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30 MHz ~ 1 GHz) / 1.5 meters (for above 1 GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detected function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

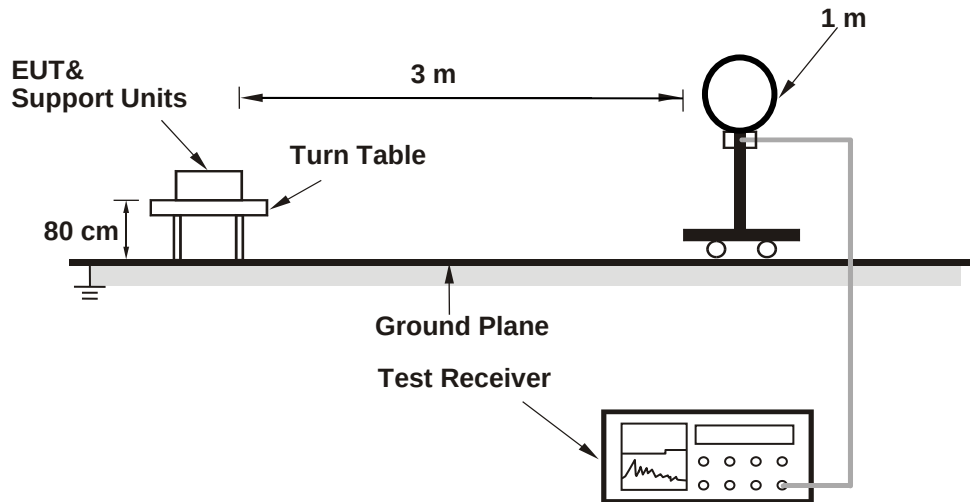
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) or Peak detection (PK) at frequency below 1 GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1 GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10 Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1 GHz. (RBW = 1 MHz, VBW = 1 kHz)
4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

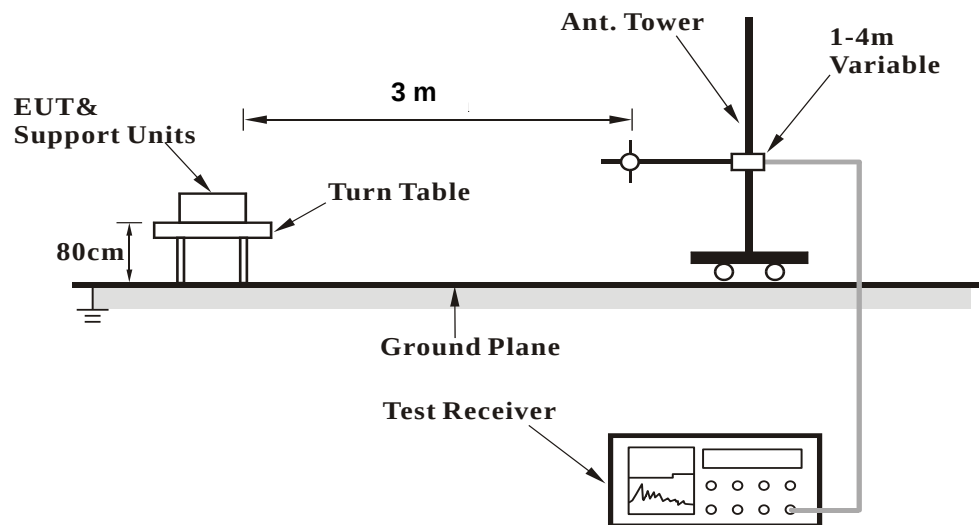
No deviation.

4.1.5 Test Set Up

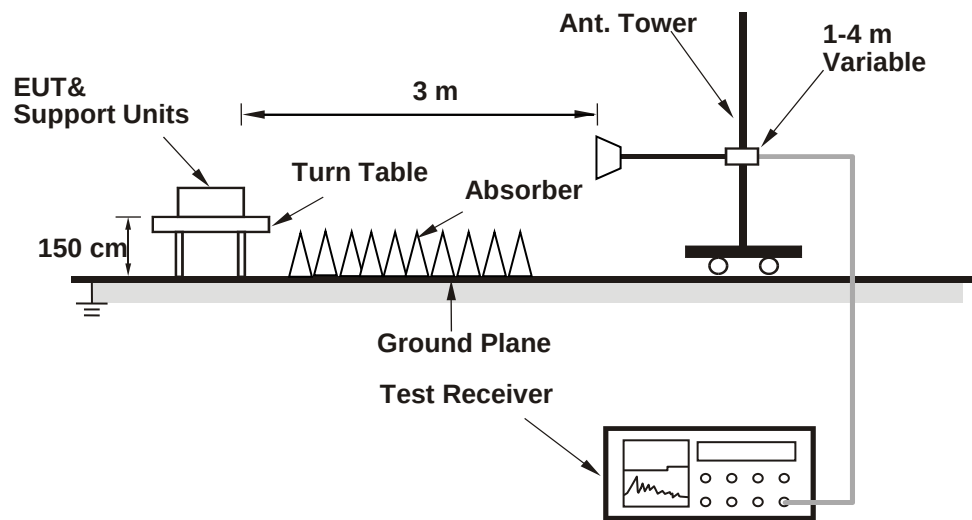
<Radiated Emission below 30 MHz>



<Radiated Emission 30 MHz to 1 GHz>



<Radiated Emission above 1 GHz>



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.6 EUT Operating Conditions

- Placed the EUT on the testing table.
- Set the EUT under transmission condition continuously at specific channel frequency.

4.1.7 Test Results

Above 1 GHz Data:

<LE 4.2>

Mode A

EUT Test Condition		Measurement Detail	
Channel	Channel 0	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Getaz Yang

Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	36.16	42.08	-5.92	54	-17.84	179	41	Average
2390	45.02	50.94	-5.92	74	-28.98	179	41	Peak
2402	94.16	100.1	-5.94	-----	-----	179	41	Average
2402	95.16	101.1	-5.94	-----	-----	179	41	Peak
4804	32.55	48.19	-15.64	54	-21.45	124	149	Average
4804	42.54	58.18	-15.64	74	-31.46	124	149	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	36.39	42.31	-5.92	54	-17.61	112	67	Average
2390	45.43	51.35	-5.92	74	-28.57	112	67	Peak
2402	95.21	101.15	-5.94	-----	-----	112	67	Average
2402	96.14	102.08	-5.94	-----	-----	112	67	Peak
4804	32.47	48.11	-15.64	54	-21.53	153	200	Average
4804	42.29	57.93	-15.64	74	-31.71	153	200	Peak

Remarks:

1. Emission Level = Read Level + Factor
Margin value = Emission level – Limit value
2. 2402 MHz: Fundamental frequency.
3. The emission levels of other frequencies were very low against the limit.

EUT Test Condition		Measurement Detail	
Channel	Channel 19	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Getaz Yang

Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2440	94.43	100.31	-5.88	-----	-----	172	40	Average
2440	95.52	101.4	-5.88	-----	-----	172	40	Peak
4880	33.65	49.21	-15.56	54	-20.35	134	135	Average
4880	41.26	56.82	-15.56	74	-32.74	134	135	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2440	96.6	102.48	-5.88	-----	-----	112	66	Average
2440	97.48	103.36	-5.88	-----	-----	112	66	Peak
4880	32.65	48.21	-15.56	54	-21.35	148	195	Average
4880	41.18	56.74	-15.56	74	-32.82	148	195	Peak

Remarks:

1. Emission Level = Read Level + Factor
Margin value = Emission level – Limit value
2. 2440 MHz: Fundamental frequency.
3. The emission levels of other frequencies were very low against the limit.

EUT Test Condition		Measurement Detail	
Channel	Channel 39	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Getaz Yang

Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2480	97.8	103.5	-5.7	-----	-----	165	41	Average
2480	98.83	104.53	-5.7	-----	-----	165	41	Peak
2483.5	38.47	44.17	-5.7	54	-15.53	165	41	Average
2483.5	48.74	54.44	-5.7	74	-25.26	165	41	Peak
4960	32.87	48.32	-15.45	54	-21.13	127	141	Average
4960	41.47	56.92	-15.45	74	-32.53	127	141	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2480	101.08	106.78	-5.7	-----	-----	112	67	Average
2480	102.09	107.79	-5.7	-----	-----	112	67	Peak
2483.5	39.96	45.66	-5.7	54	-14.04	112	67	Average
2483.5	49.14	54.84	-5.7	74	-24.86	112	67	Peak
4960	32.84	48.29	-15.45	54	-21.16	141	187	Average
4960	41.5	56.95	-15.45	74	-32.5	141	187	Peak

Remarks:

1. Emission Level = Read Level + Factor
Margin value = Emission level – Limit value
2. 2480 MHz: Fundamental frequency.
3. The emission levels of other frequencies were very low against the limit.

Mode B

EUT Test Condition		Measurement Detail	
Channel	Channel 0	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Cyril Chen

Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	36.62	42.54	-5.92	54	-17.38	113	8	Average
2390	46.33	52.25	-5.92	74	-27.67	113	8	Peak
2402	100.82	106.76	-5.94	-----	-----	113	8	Average
2402	101.95	107.89	-5.94	-----	-----	113	8	Peak
4804	31.91	47.55	-15.64	54	-22.09	155	116	Average
4804	42.47	58.11	-15.64	74	-31.53	155	116	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	36.46	42.38	-5.92	54	-17.54	274	1	Average
2390	46.37	52.29	-5.92	74	-27.63	274	1	Peak
2402	98.41	104.35	-5.94	-----	-----	274	1	Average
2402	99.67	105.61	-5.94	-----	-----	274	1	Peak
4804	33.55	49.19	-15.64	54	-20.45	166	185	Average
4804	42.74	58.38	-15.64	74	-31.26	166	185	Peak

Remarks:

1. Emission Level = Read Level + Factor
Margin value = Emission level – Limit value
2. 2402 MHz: Fundamental frequency.
3. The emission levels of other frequencies were very low against the limit.

EUT Test Condition		Measurement Detail	
Channel	Channel 19	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Cyril Chen

Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	36.24	42.16	-5.92	54	-17.76	118	15	Average
2390	46.31	52.23	-5.92	74	-27.69	118	15	Peak
2440	100.03	105.91	-5.88	-----	-----	118	15	Average
2440	101.17	107.05	-5.88	-----	-----	118	15	Peak
2483.5	36.35	42.05	-5.7	54	-17.65	118	15	Average
2483.5	45.79	51.49	-5.7	74	-28.21	118	15	Peak
4880	32.82	48.38	-15.56	54	-21.18	189	173	Average
4880	42.19	57.75	-15.56	74	-31.81	189	173	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	36.35	42.27	-5.92	54	-17.65	286	2	Average
2390	46.52	52.44	-5.92	74	-27.48	286	2	Peak
2440	99.25	105.13	-5.88	-----	-----	286	2	Average
2440	100.21	106.09	-5.88	-----	-----	286	2	Peak
2483.5	36.41	42.11	-5.7	54	-17.59	286	2	Average
2483.5	46.4	52.1	-5.7	74	-27.6	286	2	Peak
4880	31.63	47.19	-15.56	54	-22.37	118	126	Average
4880	41.46	57.02	-15.56	74	-32.54	118	126	Peak

Remarks:

1. Emission Level = Read Level + Factor
Margin value = Emission level – Limit value
2. 2440 MHz: Fundamental frequency.
3. The emission levels of other frequencies were very low against the limit.

EUT Test Condition		Measurement Detail	
Channel	Channel 39	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Cyril Chen

Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2480	98.54	104.24	-5.7	-----	-----	106	13	Average
2480	99.64	105.34	-5.7	-----	-----	106	13	Peak
2483.5	38.67	44.37	-5.7	54	-15.33	106	13	Average
2483.5	48.13	53.83	-5.7	74	-25.87	106	13	Peak
4960	32.52	47.97	-15.45	54	-21.48	154	169	Average
4960	42.02	57.47	-15.45	74	-31.98	154	169	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2480	97.82	103.52	-5.7	-----	-----	274	0	Average
2480	99.21	104.91	-5.7	-----	-----	274	0	Peak
2483.5	38.65	44.35	-5.7	54	-15.35	274	0	Average
2483.5	47.94	53.64	-5.7	74	-26.06	274	0	Peak
4960	33.45	48.9	-15.45	54	-20.55	157	191	Average
4960	42.96	58.41	-15.45	74	-31.04	157	191	Peak

Remarks:

- Emission Level = Read Level + Factor
Margin value = Emission level – Limit value
- 2480 MHz: Fundamental frequency.
- The emission levels of other frequencies were very low against the limit.

<LE 5.0>

Mode A

EUT Test Condition		Measurement Detail	
Channel	Channel 0	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Getaz Yang

Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	36.26	42.18	-5.92	54	-17.74	179	40	Average
2390	46.14	52.06	-5.92	74	-27.86	179	40	Peak
2402	92.89	98.83	-5.94	-----	-----	179	40	Average
2402	94.95	100.89	-5.94	-----	-----	179	40	Peak
4804	32.54	48.18	-15.64	54	-21.46	115	133	Average
4804	42.66	58.3	-15.64	74	-31.34	115	133	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	36.4	42.32	-5.92	54	-17.6	115	69	Average
2390	45.84	51.76	-5.92	74	-28.16	115	69	Peak
2402	94.01	99.95	-5.94	-----	-----	115	69	Average
2402	96.13	102.07	-5.94	-----	-----	115	69	Peak
4804	32.58	48.22	-15.64	54	-21.42	137	184	Average
4804	43.08	58.72	-15.64	74	-30.92	137	184	Peak

Remarks:

- Emission Level = Read Level + Factor
Margin value = Emission level – Limit value
- 2402 MHz: Fundamental frequency.
- The emission levels of other frequencies were very low against the limit.

EUT Test Condition		Measurement Detail	
Channel	Channel 19	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Getaz Yang

Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2440	92.73	98.61	-5.88	-----	-----	170	39	Average
2440	94.91	100.79	-5.88	-----	-----	170	39	Peak
4880	32.68	48.24	-15.56	54	-21.32	118	158	Average
4880	41.48	57.04	-15.56	74	-32.52	118	158	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2440	95.25	101.13	-5.88	-----	-----	114	70	Average
2440	97.3	103.18	-5.88	-----	-----	114	70	Peak
4880	32.79	48.35	-15.56	54	-21.21	145	176	Average
4880	41.84	57.4	-15.56	74	-32.16	145	176	Peak

Remarks:

- Emission Level = Read Level + Factor
Margin value = Emission level – Limit value
- 2440 MHz: Fundamental frequency.
- The emission levels of other frequencies were very low against the limit.

EUT Test Condition		Measurement Detail	
Channel	Channel 39	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Getaz Yang

Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2480	96.55	102.25	-5.7	-----	-----	185	41	Average
2480	98.47	104.17	-5.7	-----	-----	185	41	Peak
2483.5	40.83	46.53	-5.7	54	-13.17	185	41	Average
2483.5	49.94	55.64	-5.7	74	-24.06	185	41	Peak
4960	33.04	48.49	-15.45	54	-20.96	123	152	Average
4960	41.53	56.98	-15.45	74	-32.47	123	152	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2480	99.45	105.15	-5.7	-----	-----	110	68	Average
2480	101.52	107.22	-5.7	-----	-----	110	68	Peak
2483.5	43.25	48.95	-5.7	54	-10.75	110	68	Average
2483.5	51.69	57.39	-5.7	74	-22.31	110	68	Peak
4960	32.96	48.41	-15.45	54	-21.04	133	189	Average
4960	42.44	57.89	-15.45	74	-31.56	133	189	Peak

Remarks:

- Emission Level = Read Level + Factor
Margin value = Emission level – Limit value
- 2480 MHz: Fundamental frequency.
- The emission levels of other frequencies were very low against the limit.

Mode B

EUT Test Condition		Measurement Detail	
Channel	Channel 0	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Cyril Chen

Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	37.15	43.07	-5.92	54	-16.85	137	8	Average
2390	46.48	52.4	-5.92	74	-27.52	137	8	Peak
2402	98.19	104.13	-5.94	-----	-----	137	8	Average
2402	101.73	107.67	-5.94	-----	-----	137	8	Peak
4804	32.96	48.6	-15.64	54	-21.04	188	108	Average
4804	42.49	58.13	-15.64	74	-31.51	188	108	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	36.68	42.6	-5.92	54	-17.32	300	0	Average
2390	45.89	51.81	-5.92	74	-28.11	300	0	Peak
2402	96.26	102.2	-5.94	-----	-----	300	0	Average
2402	99.49	105.43	-5.94	-----	-----	300	0	Peak
4804	32.52	48.16	-15.64	54	-21.48	148	176	Average
4804	42.62	58.26	-15.64	74	-31.38	148	176	Peak

Remarks:

1. Emission Level = Read Level + Factor
Margin value = Emission level – Limit value
2. 2402 MHz: Fundamental frequency.
3. The emission levels of other frequencies were very low against the limit.

EUT Test Condition		Measurement Detail	
Channel	Channel 19	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Cyril Chen

Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	36.31	42.23	-5.92	54	-17.69	153	16	Average
2390	47.11	53.03	-5.92	74	-26.89	153	16	Peak
2440	98.09	103.97	-5.88	-----	-----	153	16	Average
2440	100.79	106.67	-5.88	-----	-----	153	16	Peak
2483.5	36.46	42.16	-5.7	54	-17.54	153	16	Average
2483.5	46.19	51.89	-5.7	74	-27.81	153	16	Peak
4880	31.92	47.48	-15.56	54	-22.08	180	150	Average
4880	41.51	57.07	-15.56	74	-32.49	180	150	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	36.41	42.33	-5.92	54	-17.59	292	0	Average
2390	46.37	52.29	-5.92	74	-27.63	292	0	Peak
2440	96.55	102.43	-5.88	-----	-----	292	0	Average
2440	100.15	106.03	-5.88	-----	-----	292	0	Peak
2483.5	36.63	42.33	-5.7	54	-17.37	292	0	Average
2483.5	46.67	52.37	-5.7	74	-27.33	292	0	Peak
4880	33.4	48.96	-15.56	54	-20.6	105	164	Average
4880	42.49	58.05	-15.56	74	-31.51	105	164	Peak

Remarks:

1. Emission Level = Read Level + Factor
Margin value = Emission level – Limit value
2. 2440 MHz: Fundamental frequency.
3. The emission levels of other frequencies were very low against the limit.

EUT Test Condition		Measurement Detail	
Channel	Channel 39	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Cyril Chen

Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2480	95.91	101.61	-5.7	-----	-----	131	13	Average
2480	99.48	105.18	-5.7	-----	-----	131	13	Peak
2483.5	40.04	45.74	-5.7	54	-13.96	131	13	Average
2483.5	50.62	56.32	-5.7	74	-23.38	131	13	Peak
4960	32.4	47.85	-15.45	54	-21.6	158	150	Average
4960	42.33	57.78	-15.45	74	-31.67	158	150	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2480	95.72	101.42	-5.7	-----	-----	325	0	Average
2480	99.17	104.87	-5.7	-----	-----	325	0	Peak
2483.5	39.97	45.67	-5.7	54	-14.03	325	0	Average
2483.5	49.66	55.36	-5.7	74	-24.34	325	0	Peak
4960	31.75	47.2	-15.45	54	-22.25	117	259	Average
4960	41.12	56.57	-15.45	74	-32.88	117	259	Peak

Remarks:

- Emission Level = Read Level + Factor
Margin value = Emission level – Limit value
- 2480 MHz: Fundamental frequency.
- The emission levels of other frequencies were very low against the limit.

9 kHz ~ 30 MHz Data:

The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

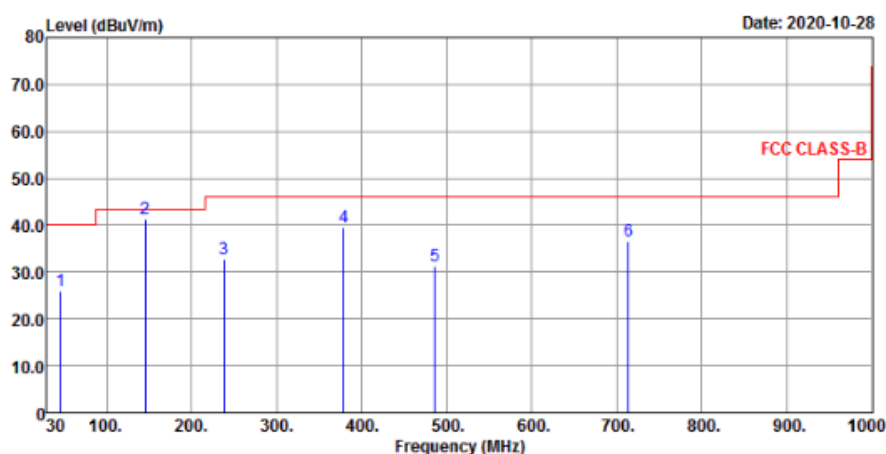
30 MHz ~ 1 GHz Worst-Case Data:

<LE 4.2>

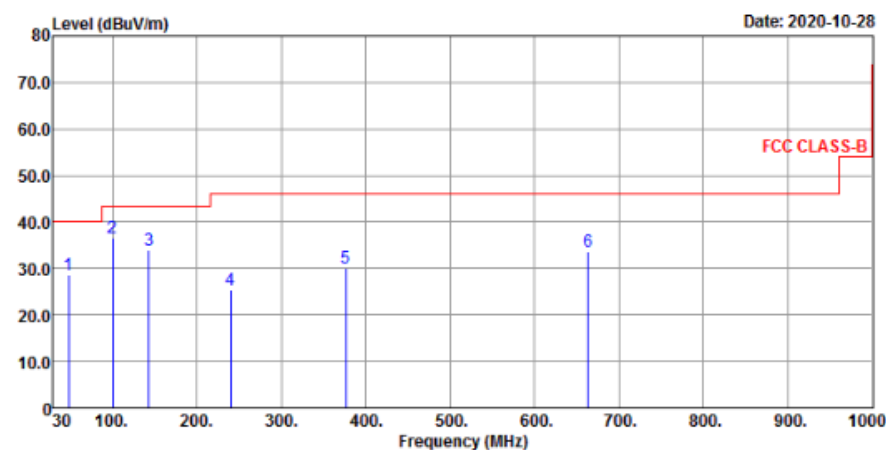
Mode A

EUT Test Condition		Measurement Detail	
Channel	Channel 39	Frequency Range	30 MHz ~ 1 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Quasi-peak (QP)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Cyril Chen

Horizontal



Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m

Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
45.52	25.95	37.73	-11.78	40	-14.05	151	301	QP
145.43	41.4	53.2	-11.8	43.5	-2.1	166	207	QP
238.55	32.87	46.35	-13.48	46	-13.13	114	284	QP
379.2	39.57	48.32	-8.75	46	-6.43	167	154	QP
485.9	31.3	37.05	-5.75	46	-14.7	194	258	QP
713.85	36.62	37.02	-0.4	46	-9.38	185	166	QP

Antenna Polarity & Test Distance: Vertical at 3 m

Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
48.43	28.49	40.2	-11.71	40	-11.51	187	291	QP
99.84	36.69	52.72	-16.03	43.5	-6.81	106	122	QP
143.49	33.94	45.85	-11.91	43.5	-9.56	129	187	QP
239.52	25.39	38.79	-13.4	46	-20.61	166	149	QP
376.29	30.13	38.95	-8.82	46	-15.87	159	128	QP
663.41	33.62	35.04	-1.42	46	-12.38	117	182	QP

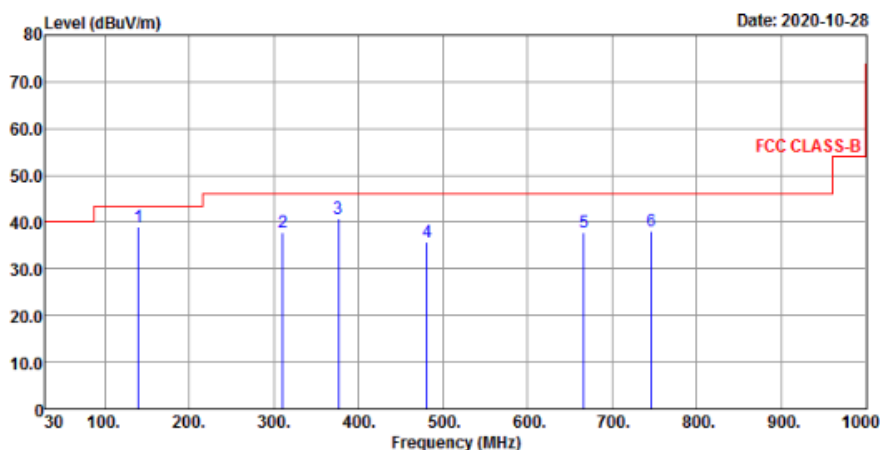
Remarks:

- Emission Level = Read Level + Factor
Margin value = Emission level – Limit value
- The emission levels of other frequencies were very low against the limit.

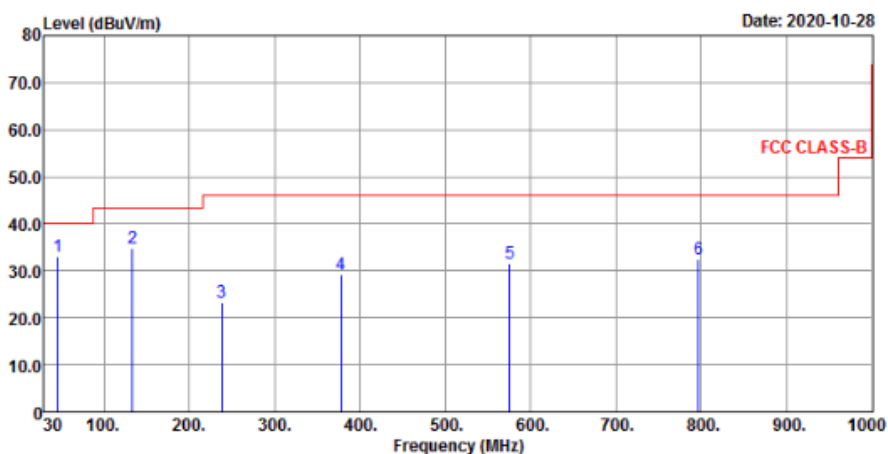
Mode B

EUT Test Condition		Measurement Detail	
Channel	Channel 39	Frequency Range	30 MHz ~ 1 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Quasi-peak (QP)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Cyril Chen

Horizontal



Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
139.61	39.06	51.21	-12.15	43.5	-4.44	129	188	QP
310.33	37.74	48.51	-10.77	46	-8.26	177	263	QP
376.29	40.6	49.42	-8.82	46	-5.4	179	251	QP
481.05	35.84	41.64	-5.8	46	-10.16	108	166	QP
666.32	37.84	39.19	-1.35	46	-8.16	128	155	QP
745.86	38.16	37.21	0.95	46	-7.84	147	163	QP
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
45.52	33.05	44.83	-11.78	40	-6.95	133	211	QP
133.79	34.85	47.33	-12.48	43.5	-8.65	127	189	QP
238.55	23.41	36.89	-13.48	46	-22.59	159	144	QP
378.23	29.23	38	-8.77	46	-16.77	113	289	QP
575.14	31.6	35.17	-3.57	46	-14.4	144	197	QP
796.3	32.45	30.86	1.59	46	-13.55	128	256	QP

Remarks:

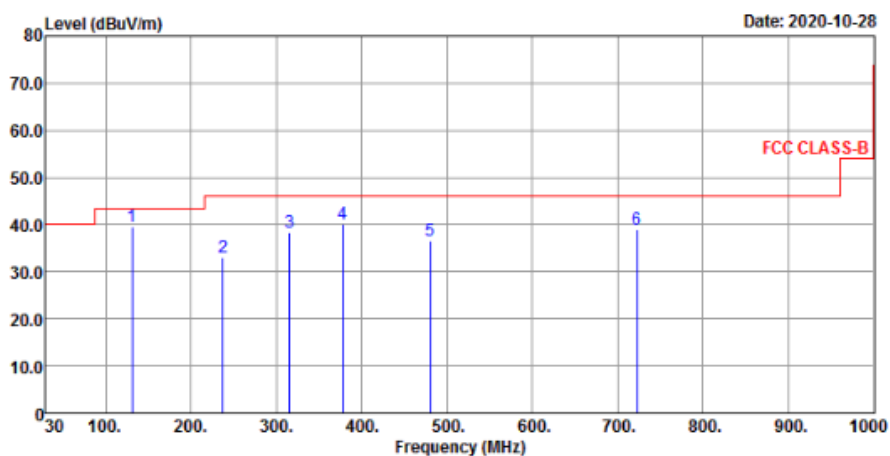
- Emission Level = Read Level + Factor
Margin value = Emission level – Limit value
- The emission levels of other frequencies were very low against the limit.

<LE 5.0>

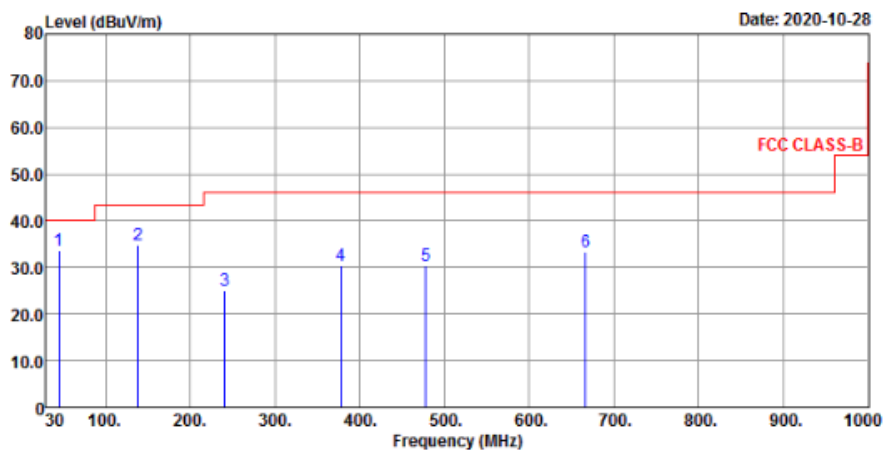
Mode A

EUT Test Condition		Measurement Detail	
Channel	Channel 39	Frequency Range	30 MHz ~ 1 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Quasi-peak (QP)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Getaz Yang

Horizontal



Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m

Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
130.88	39.43	52.23	-12.8	43.5	-4.07	148	192	QP
237.58	32.93	46.47	-13.54	46	-13.07	153	283	QP
315.18	38.38	48.98	-10.6	46	-7.62	169	177	QP
378.23	40.08	48.85	-8.77	46	-5.92	127	218	QP
480.08	36.68	42.49	-5.81	46	-9.32	155	139	QP
722.58	39.09	39.19	-0.1	46	-6.91	148	169	QP

Antenna Polarity & Test Distance: Vertical at 3 m

Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
44.55	33.6	45.47	-11.87	40	-6.4	133	211	QP
138.64	34.81	46.96	-12.15	43.5	-8.69	127	111	QP
240.49	25.09	38.43	-13.34	46	-20.91	103	214	QP
378.23	30.31	39.08	-8.77	46	-15.69	184	166	QP
478.14	30.29	36.12	-5.83	46	-15.71	154	230	QP
666.32	33.48	34.83	-1.35	46	-12.52	162	188	QP

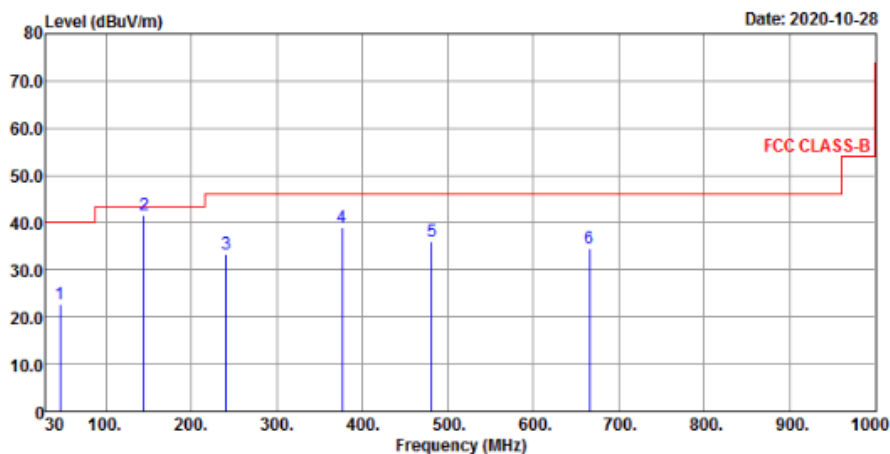
Remarks:

- Emission Level = Read Level + Factor
Margin value = Emission level – Limit value
- The emission levels of other frequencies were very low against the limit.

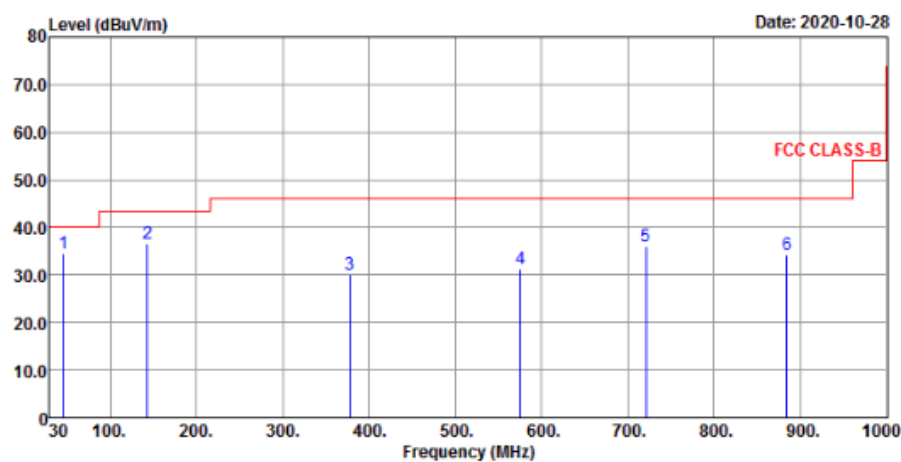
Mode B

EUT Test Condition		Measurement Detail	
Channel	Channel 39	Frequency Range	30 MHz ~ 1 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Quasi-peak (QP)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Cyril Chen

Horizontal



Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
46.49	22.81	34.58	-11.77	40	-17.19	135	88	QP
144.46	41.48	53.32	-11.84	43.5	-2.02	200	189	QP
240.49	33.42	46.76	-13.34	46	-12.58	170	210	QP
376.29	38.99	47.81	-8.82	46	-7.01	164	222	QP
481.05	36.15	41.95	-5.8	46	-9.85	159	283	QP
665.35	34.58	35.95	-1.37	46	-11.42	174	281	QP
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
45.52	34.42	46.2	-11.78	40	-5.58	133	216	QP
143.49	36.62	48.53	-11.91	43.5	-6.88	129	154	QP
378.23	30.09	38.86	-8.77	46	-15.91	167	130	QP
575.14	31.19	34.76	-3.57	46	-14.81	188	274	QP
720.64	36	36.19	-0.19	46	-10	154	227	QP
884.57	34.32	31.56	2.76	46	-11.68	107	236	QP

Remarks:

- Emission Level = Read Level + Factor
Margin value = Emission level – Limit value
- The emission levels of other frequencies were very low against the limit.

4.2 Conducted Emission Measurement

4.2.1 Limits of Conducted Emission Measurement

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-Peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

- Note: 1. The lower limit shall apply at the transition frequencies.
 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

4.2.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Test Receiver ROHDE & SCHWARZ	ESCI	100613	Dec. 11, 2019	Dec. 10, 2020
RF signal cable Woken	5D-FB	Cable-cond1-01	Sep. 04, 2020	Sep. 03, 2021
LISN ROHDE & SCHWARZ (EUT)	ENV216	101826	Feb. 20, 2020	Feb. 19, 2021
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	Aug. 28, 2020	Aug. 27, 2021
Software ADT	BV ADT_Conc_ V7.3.7.4	NA	NA	NA

- Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 2. The test was performed in HwaYa Shielded Room 1 (Conduction 1).
 3. The VCCI Site Registration No. is C-12040.

4.2.3 Test Procedures

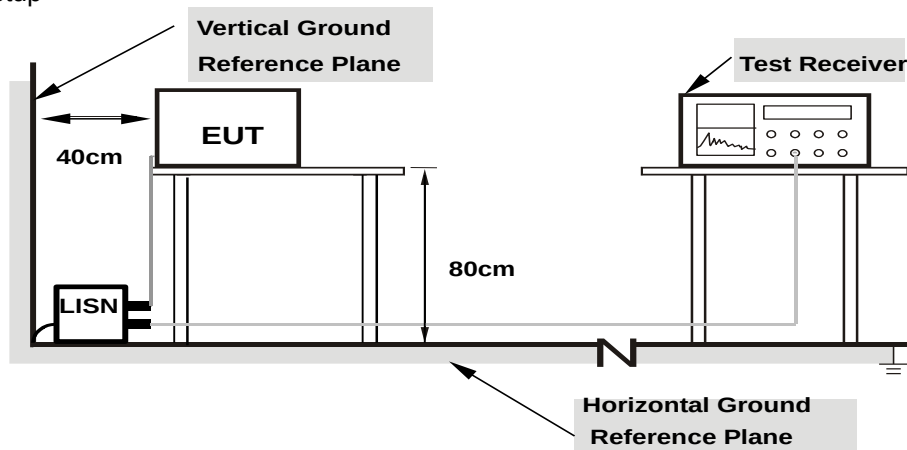
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/50 uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

Note: The resolution bandwidth and video bandwidth of test receiver is 9 kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15 MHz - 30 MHz.

4.2.4 Deviation from Test Standard

No deviation.

4.2.5 Test Setup



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

4.2.6 EUT Operating Conditions

- Placed the EUT on the testing table.
- Set the EUT under transmission condition continuously at specific channel frequency.

4.2.7 Test Results

CONDUCTED WORST-CASE DATA

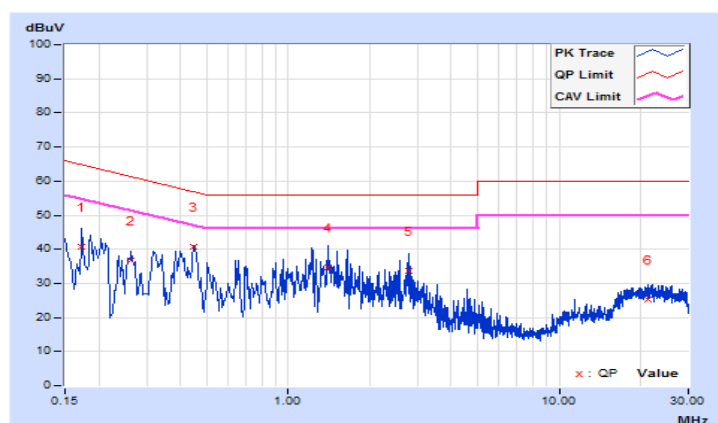
<LE 4.2>

Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	25°C, 65%RH
Tested by	Getaz Yang	Test Date	2020/10/27
Test Mode	Mode A		

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.17346	9.65	31.10	23.59	40.75	33.24	64.79	54.79	-24.04	-21.55
2	0.26339	9.66	26.89	18.10	36.55	27.76	61.32	51.32	-24.77	-23.56
3	0.44978	9.66	31.22	22.79	40.88	32.45	56.88	46.88	-16.00	-14.43
4	1.39729	9.68	24.88	18.46	34.56	28.14	56.00	46.00	-21.44	-17.86
5	2.79707	9.72	23.81	15.87	33.53	25.59	56.00	46.00	-22.47	-20.41
6	21.25618	9.85	15.40	8.52	25.25	18.37	60.00	50.00	-34.75	-31.63

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

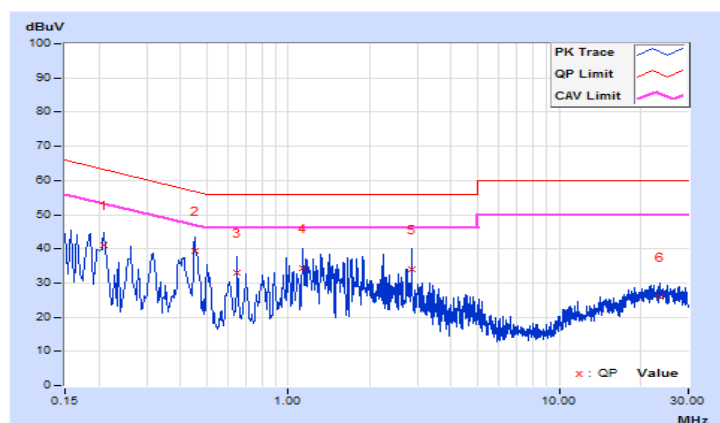


Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	25°C, 65%RH
Tested by	Getaz Yang	Test Date	2020/10/27
Test Mode	Mode A		

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.20865	9.68	31.29	24.01	40.97	33.69	63.26	53.26	-22.29	-19.57
2	0.45097	9.68	29.60	22.00	39.28	31.68	56.86	46.86	-17.58	-15.18
3	0.64657	9.68	23.35	11.19	33.03	20.87	56.00	46.00	-22.97	-25.13
4	1.12750	9.70	24.52	17.15	34.22	26.85	56.00	46.00	-21.78	-19.15
5	2.84790	9.75	24.19	16.00	33.94	25.75	56.00	46.00	-22.06	-20.25
6	23.46533	9.97	15.88	8.50	25.85	18.47	60.00	50.00	-34.15	-31.53

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

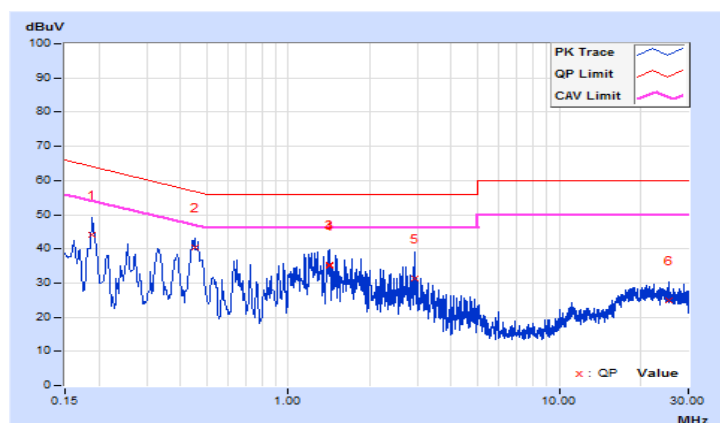


Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	25°C, 65%RH
Tested by	Getaz Yang	Test Date	2020/10/28
Test Mode	Mode B		

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.18903	9.66	34.47	26.97	44.13	36.63	64.08	54.08	-19.95	-17.45
2	0.45097	9.66	30.91	22.66	40.57	32.32	56.86	46.86	-16.29	-14.54
3	1.41293	9.68	25.77	18.21	35.45	27.89	56.00	46.00	-20.55	-18.11
4	1.41293	9.68	25.22	17.11	34.90	26.79	56.00	46.00	-21.10	-19.21
5	2.94174	9.72	21.61	15.56	31.33	25.28	56.00	46.00	-24.67	-20.72
6	25.49071	9.84	15.13	7.39	24.97	17.23	60.00	50.00	-35.03	-32.77

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

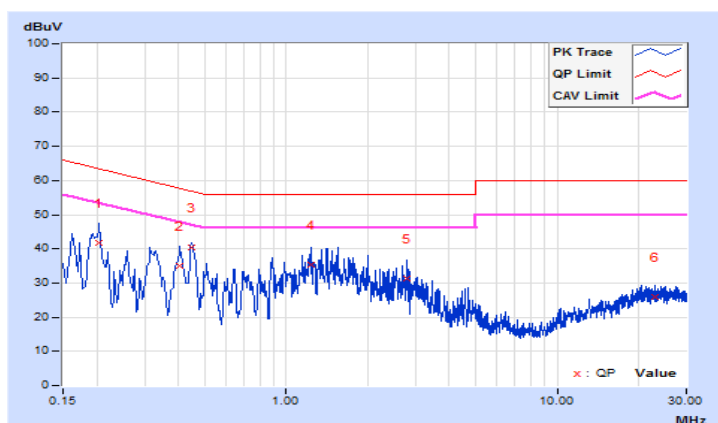


Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	25°C, 65%RH
Tested by	Getaz Yang	Test Date	2020/10/28
Test Mode	Mode B		

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.20458	9.68	31.99	27.86	41.67	37.54	63.42	53.42	-21.75	-15.88
2	0.40415	9.68	25.35	17.92	35.03	27.60	57.77	47.77	-22.74	-20.17
3	0.44716	9.68	30.71	22.79	40.39	32.47	56.93	46.93	-16.54	-14.46
4	1.23698	9.70	25.82	18.57	35.52	28.27	56.00	46.00	-20.48	-17.73
5	2.78531	9.75	21.50	16.65	31.25	26.40	56.00	46.00	-24.75	-19.60
6	23.07042	9.97	15.86	8.23	25.83	18.20	60.00	50.00	-34.17	-31.80

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



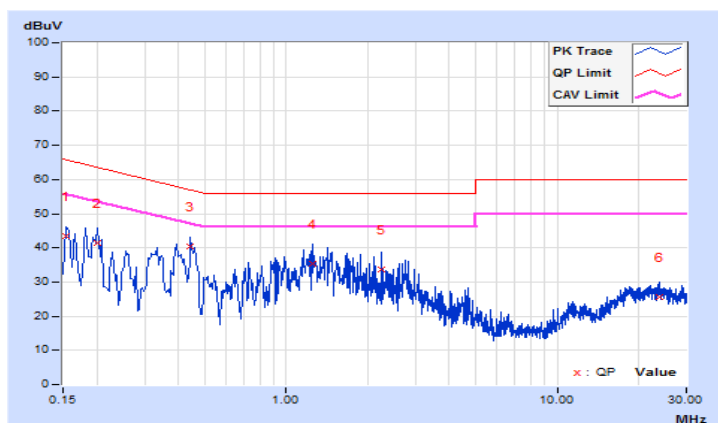
<LE 5.0>

Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	25°C, 65%RH
Tested by	Getaz Yang	Test Date	2020/10/27
Test Mode	Mode A		

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	9.65	33.82	25.93	43.47	35.58	65.79	55.79	-22.32	-20.21
2	0.20083	9.66	31.86	23.21	41.52	32.87	63.58	53.58	-22.06	-20.71
3	0.44325	9.66	30.78	21.94	40.44	31.60	57.00	47.00	-16.56	-15.40
4	1.24480	9.68	25.60	18.55	35.28	28.23	56.00	46.00	-20.72	-17.77
5	2.25749	9.71	24.02	16.42	33.73	26.13	56.00	46.00	-22.27	-19.87
6	23.84851	9.84	15.79	8.71	25.63	18.55	60.00	50.00	-34.37	-31.45

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

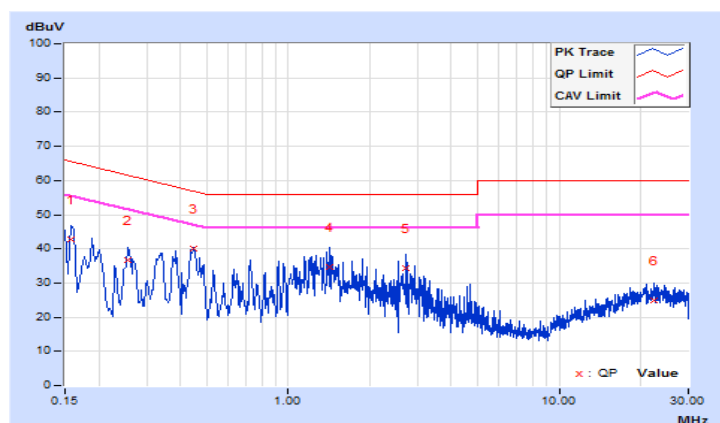


Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	25°C, 65%RH
Tested by	Getaz Yang	Test Date	2020/10/27
Test Mode	Mode A		

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15782	9.68	33.07	24.88	42.75	34.56	65.58	55.58	-22.83	-21.02
2	0.25557	9.68	27.04	19.22	36.72	28.90	61.57	51.57	-24.85	-22.67
3	0.44716	9.68	30.37	22.69	40.05	32.37	56.93	46.93	-16.88	-14.56
4	1.42466	9.71	25.01	18.27	34.72	27.98	56.00	46.00	-21.28	-18.02
5	2.72669	9.74	24.66	16.30	34.40	26.04	56.00	46.00	-21.60	-19.96
6	22.45655	9.98	15.04	8.31	25.02	18.29	60.00	50.00	-34.98	-31.71

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

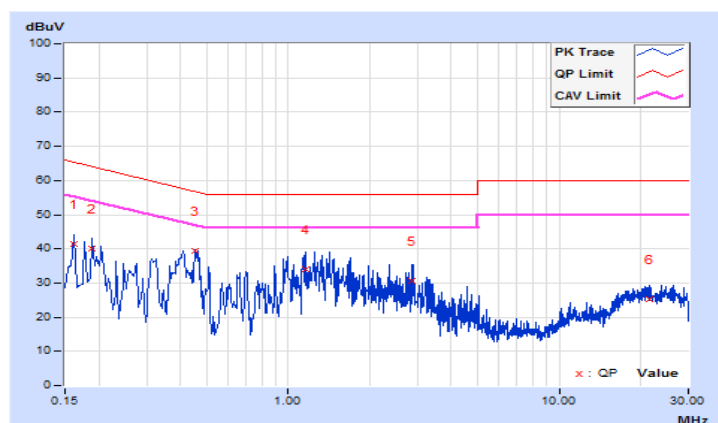


Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	25°C, 65%RH
Tested by	Getaz Yang	Test Date	2020/10/28
Test Mode	Mode B		

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16173	9.65	31.71	23.59	41.36	33.24	65.37	55.37	-24.01	-22.13
2	0.18910	9.66	30.33	22.17	39.99	31.83	64.08	54.08	-24.09	-22.25
3	0.45498	9.66	29.84	21.45	39.50	31.11	56.78	46.78	-17.28	-15.67
4	1.15487	9.67	24.26	18.59	33.93	28.26	56.00	46.00	-22.07	-17.74
5	2.84790	9.72	21.00	16.11	30.72	25.83	56.00	46.00	-25.28	-20.17
6	21.58853	9.85	15.30	8.55	25.15	18.40	60.00	50.00	-34.85	-31.60

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

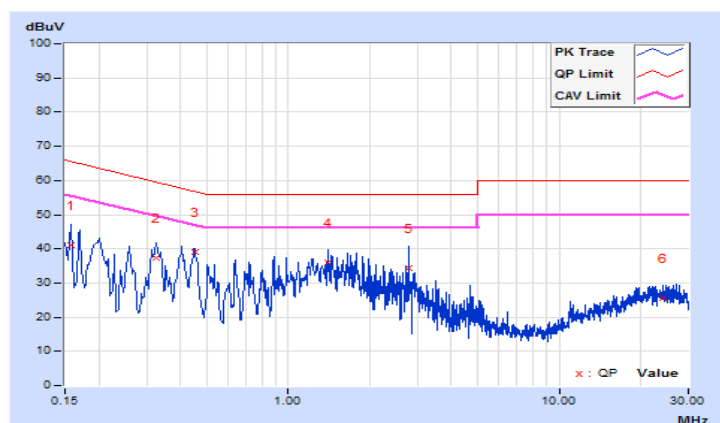


Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	25°C, 65%RH
Tested by	Getaz Yang	Test Date	2020/10/28
Test Mode	Mode B		

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15782	9.68	31.33	23.81	41.01	33.49	65.58	55.58	-24.57	-22.09
2	0.32595	9.68	27.55	20.99	37.23	30.67	59.55	49.55	-22.32	-18.88
3	0.45097	9.68	29.49	21.98	39.17	31.66	56.86	46.86	-17.69	-15.20
4	1.40511	9.71	26.29	19.53	36.00	29.24	56.00	46.00	-20.00	-16.76
5	2.78534	9.75	24.54	16.55	34.29	26.30	56.00	46.00	-21.71	-19.70
6	24.25906	9.97	15.46	8.67	25.43	18.64	60.00	50.00	-34.57	-31.36

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

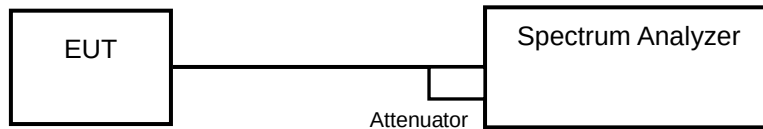


4.3 6 dB Bandwidth Measurement

4.3.1 Limits of 6 dB Bandwidth Measurement

The minimum of 6 dB Bandwidth Measurement is 0.5 MHz.

4.3.2 Test Setup



4.3.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.3.4 Test Procedure

- Set resolution bandwidth (RBW) = 100 kHz
- Set the video bandwidth (VBW) $\geq 3 \times$ RBW, Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission

4.3.5 Deviation from Test Standard

No deviation.

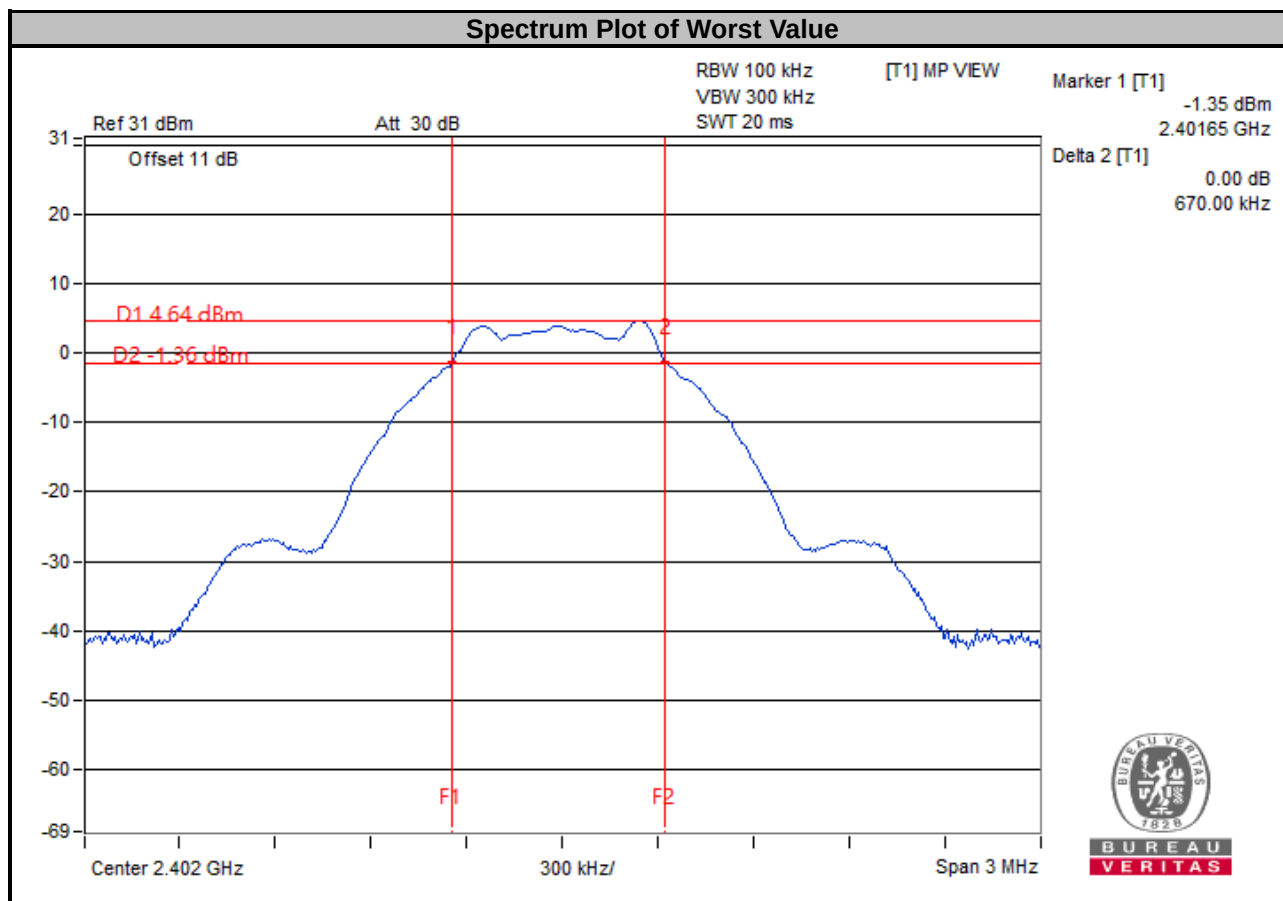
4.3.6 EUT Operating Conditions

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.3.7 Test Results

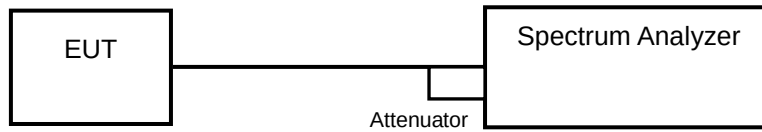
<LE 4.2>

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
0	2402	0.67	0.5	Pass
19	2440	0.67	0.5	Pass
39	2480	0.67	0.5	Pass



4.4 Occupied Bandwidth Measurement

4.4.1 Test Setup



4.4.2 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.4.3 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1 % to 5 % of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to sampling. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission.

4.4.4 Deviation from Test Standard

No deviation.

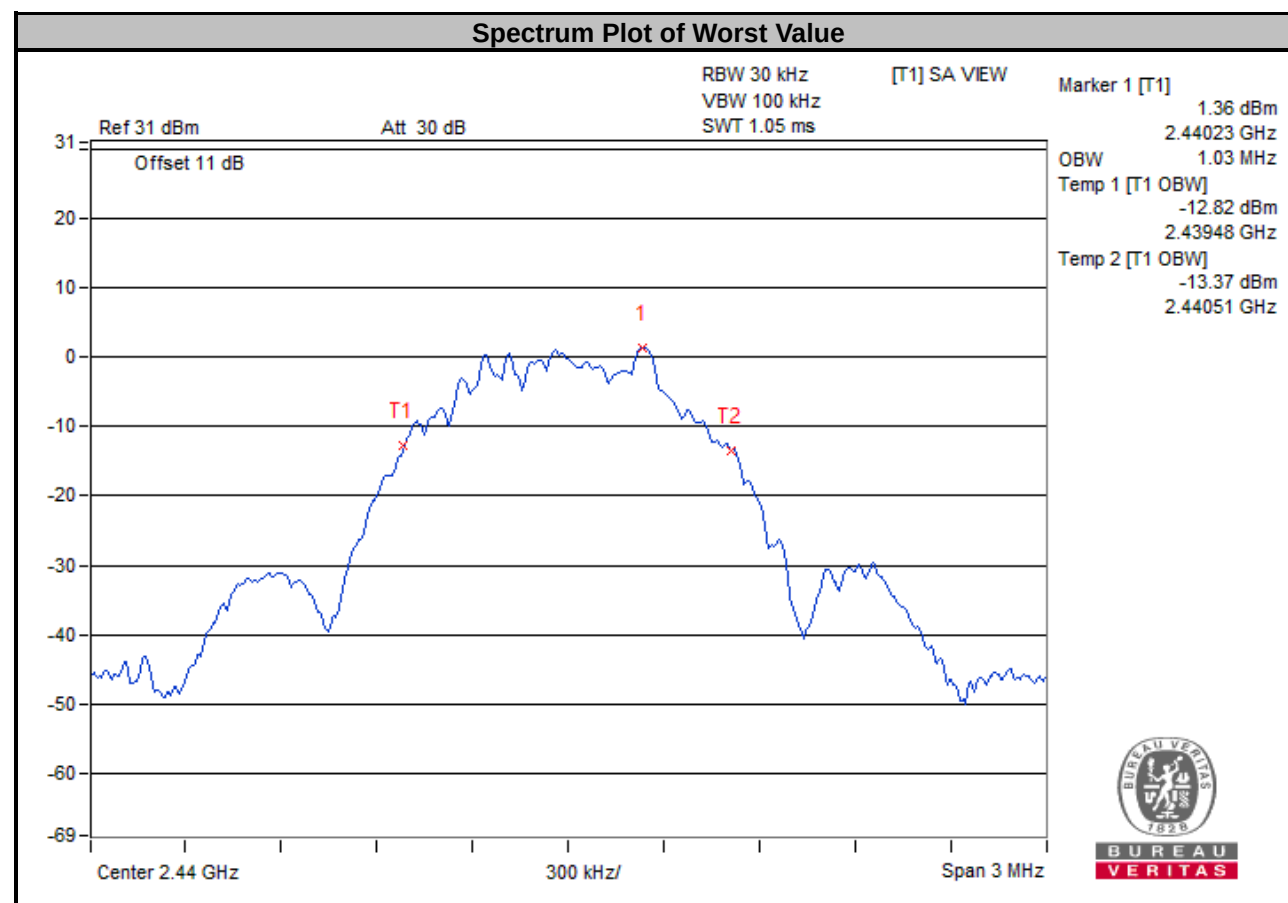
4.4.5 EUT Operating Conditions

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.4.6 Test Results

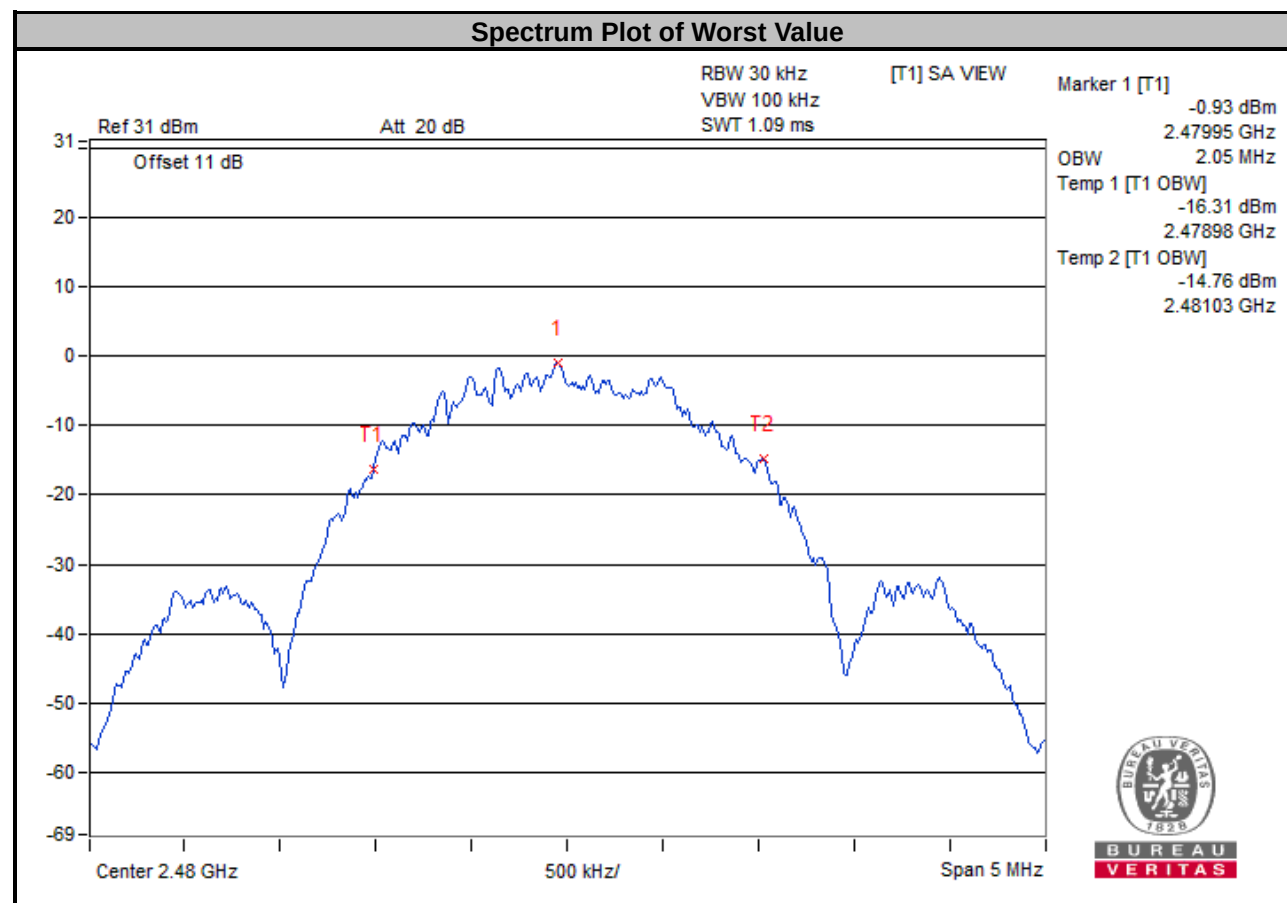
<LE 4.2>

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	Pass / Fail
0	2402	1.02	Pass
19	2440	1.03	Pass
39	2480	1.03	Pass



<LE 5.0>

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	Pass / Fail
0	2402	2.04	Pass
19	2440	2.04	Pass
39	2480	2.05	Pass

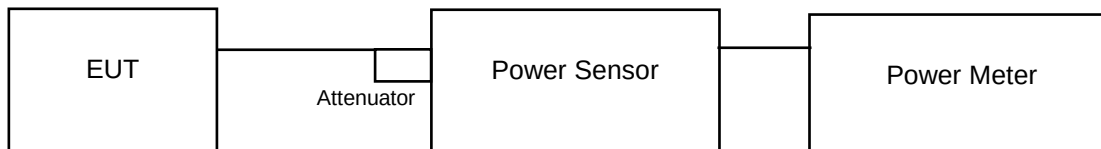


4.5 Conducted Output Power Measurement

4.5.1 Limits of Conducted Output Power Measurement

For systems using digital modulation in the 2400–2483.5 MHz bands: 1 Watt (30 dBm)

4.5.2 Test Setup



4.5.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.5.4 Test Procedures

A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the power level.

Average power sensor was used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

4.5.5 Deviation from Test Standard

No deviation.

4.5.6 EUT Operating Conditions

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.5.7 Test Results

<LE 4.2>

Channel	Freq. (MHz)	Peak Power		Power Limit (mW)	Pass / Fail
		(mW)	(dBm)		
0	2402	3.243	5.11	1000	Pass
19	2440	3.690	5.67	1000	Pass
39	2480	4.064	6.09	1000	Pass

Channel	Freq. (MHz)	Average Power	
		(mW)	(dBm)
0	2402	2.642	4.22
19	2440	3.048	4.84
39	2480	3.491	5.43

<LE 5.0>

Channel	Freq. (MHz)	Peak Power		Power Limit (mW)	Pass / Fail
		(mW)	(dBm)		
0	2402	3.273	5.15	1000	Pass
19	2440	3.724	5.71	1000	Pass
39	2480	4.074	6.10	1000	Pass

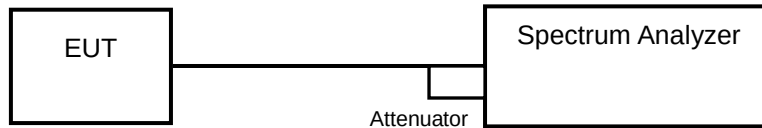
Channel	Freq. (MHz)	Average Power	
		(mW)	(dBm)
0	2402	2.655	4.24
19	2440	3.055	4.85
39	2480	3.508	5.45

4.6 Power Spectral Density Measurement

4.6.1 Limits of Power Spectral Density Measurement

The Maximum of Power Spectral Density Measurement is 8 dBm in any 3 kHz band during any time interval of continuous transmission.

4.6.2 Test Setup



4.6.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.6.4 Test Procedure

- Set analyzer center frequency to DTS channel center frequency.
- Set the span to 1.5 times the DTS bandwidth.
- Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- Set the VBW $\geq 3 \times \text{RBW}$.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level within the RBW.

4.6.5 Deviation from Test Standard

No deviation.

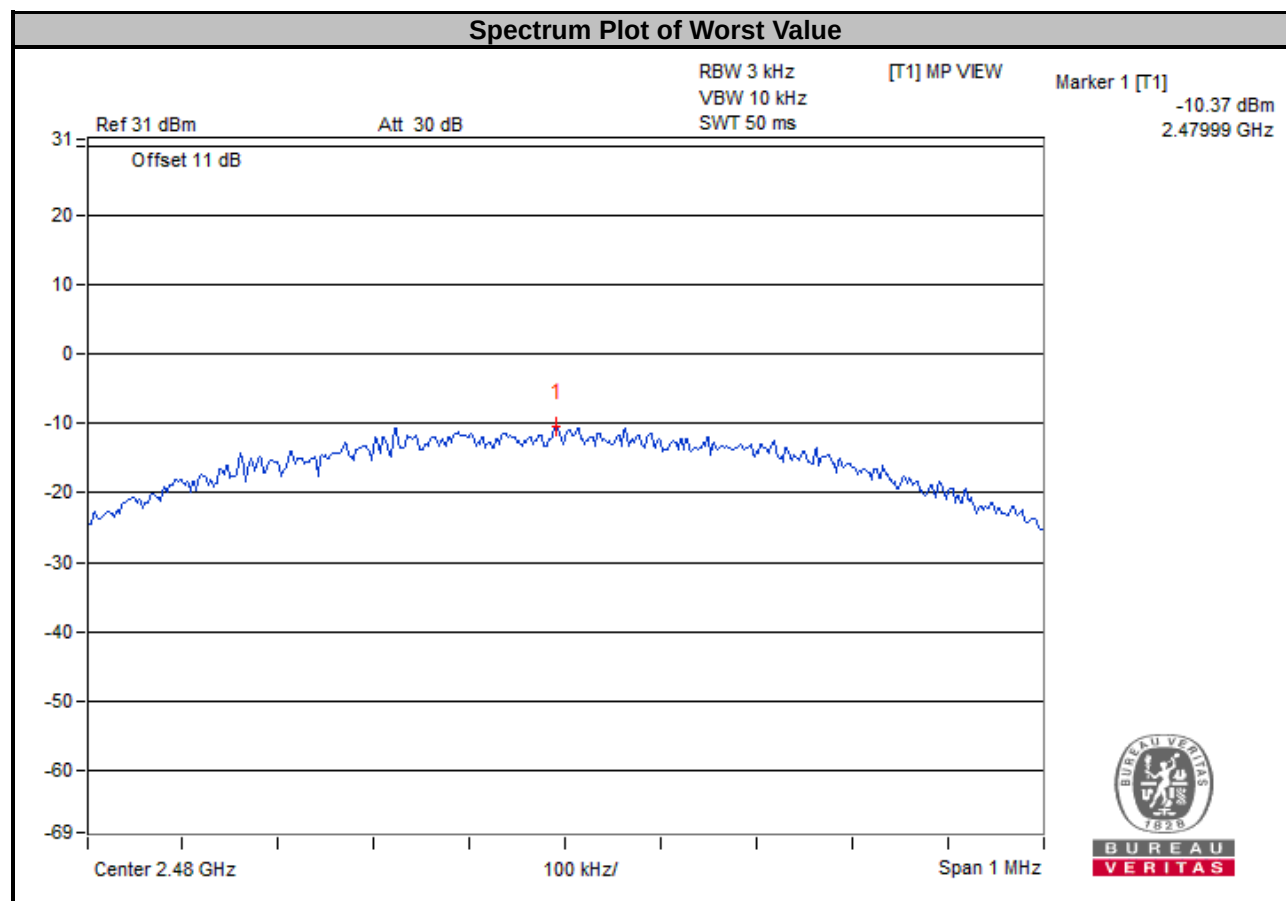
4.6.6 EUT Operating Condition

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.6.7 Test Results

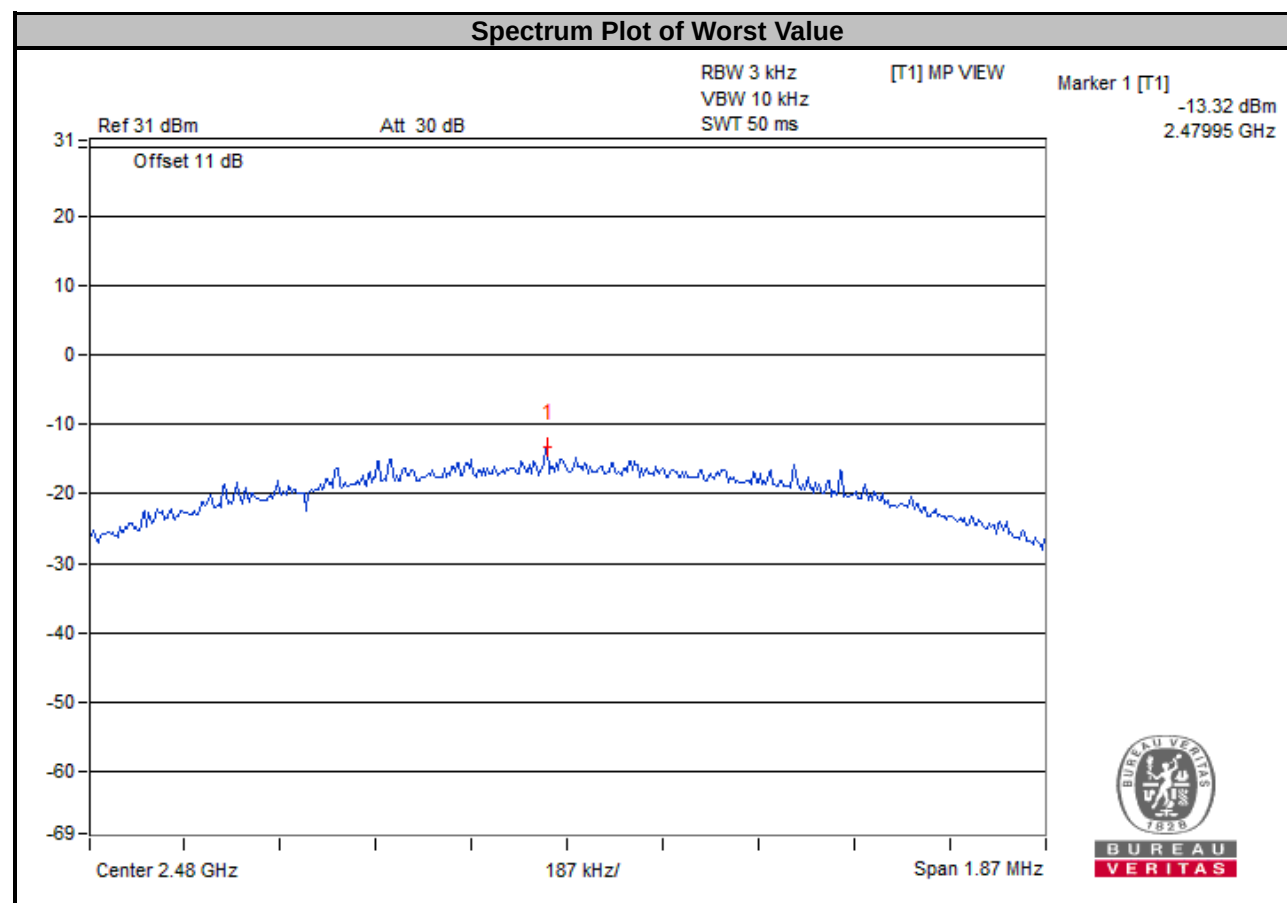
<LE 4.2>

Channel	Frequency (MHz)	PSD (dBm/3 kHz)	Limit (dBm/3 kHz)	Pass / Fail
0	2402	-11.67	8	Pass
19	2440	-10.88	8	Pass
39	2480	-10.37	8	Pass



<LE 5.0>

Channel	Frequency (MHz)	PSD (dBm/3 kHz)	Limit (dBm/3 kHz)	Pass / Fail
0	2402	-14.65	8	Pass
19	2440	-14.04	8	Pass
39	2480	-13.32	8	Pass

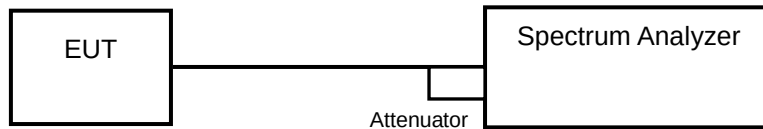


4.7 Conducted Out of Band Emission Measurement

4.7.1 Limits of Conducted Out of Band Emission Measurement

Below -20 dB of the highest emission level of operating band (in 100 kHz Resolution Bandwidth).

4.7.2 Test Setup



4.7.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.7.4 Test Procedure

MEASUREMENT PROCEDURE REF

1. Set the RBW = 100 kHz.
2. Set the VBW $\geq$ 300 kHz.
3. Detector = peak.
4. Sweep time = auto couple.
5. Trace mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

MEASUREMENT PROCEDURE OOBE

1. Set RBW = 100 kHz.
2. Set VBW $\geq$ 300 kHz.
3. Detector = peak.
4. Sweep = auto couple.
5. Trace Mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum amplitude level.

4.7.5 Deviation from Test Standard

No deviation.

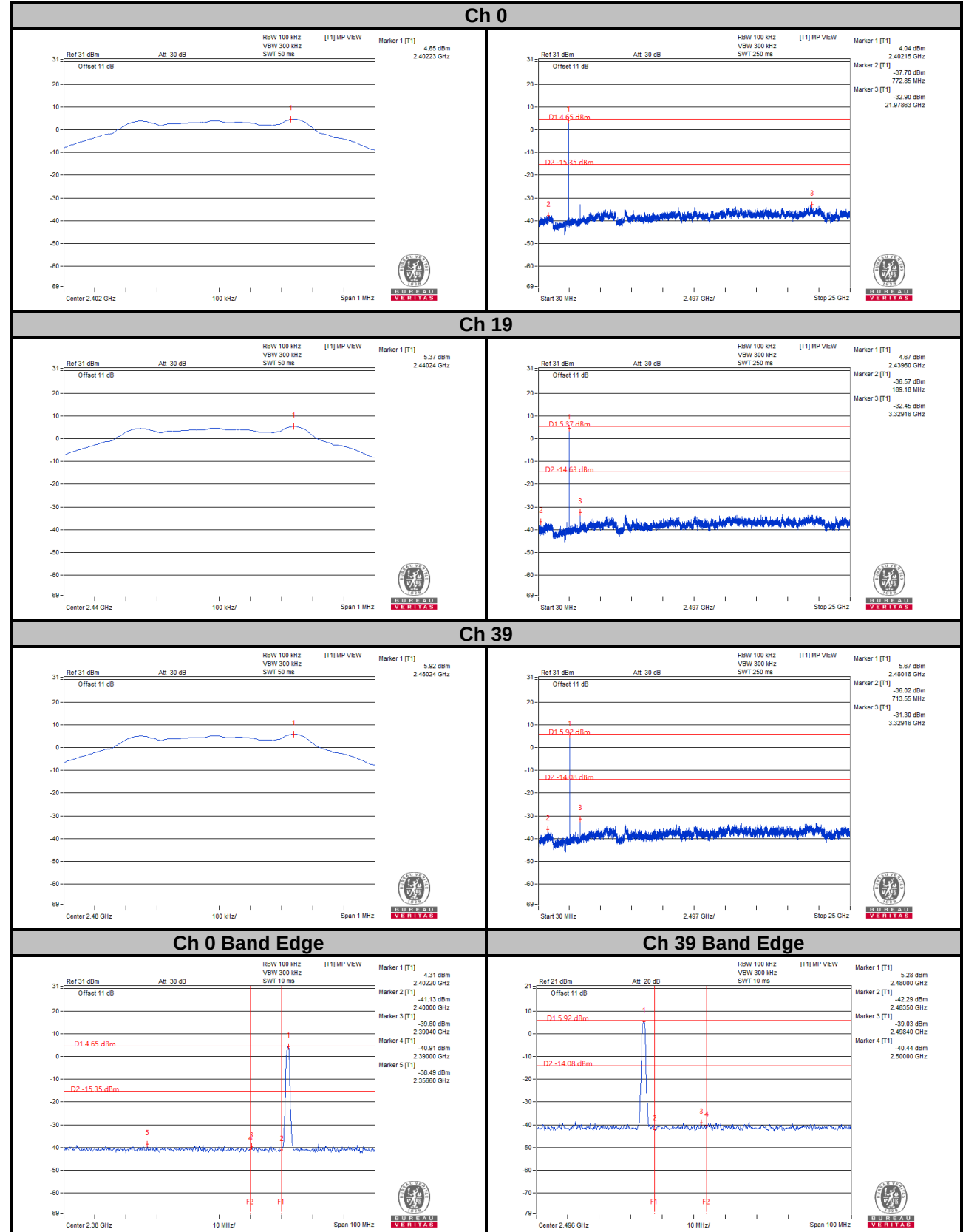
4.7.6 EUT Operating Condition

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.7.7 Test Results

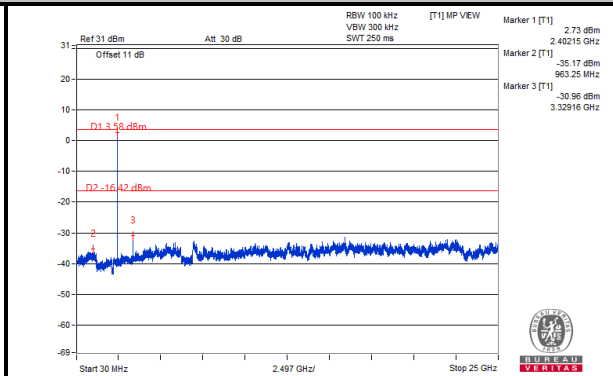
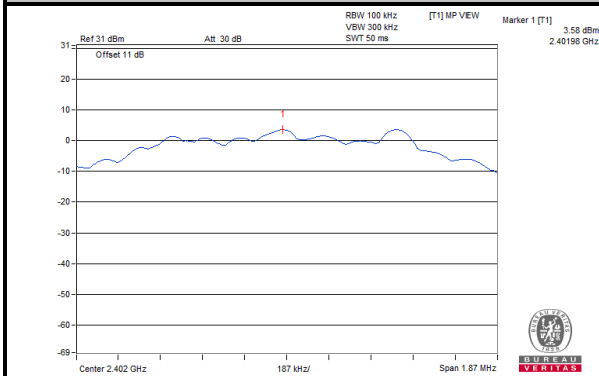
The spectrum plots are attached on the following images. D1 line indicates the highest level, D2 line indicates the 20 dB offset below D1. It shows compliance with the requirement.

<LE 4.2>

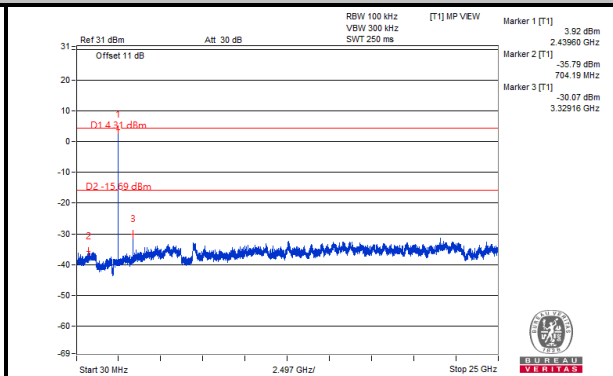
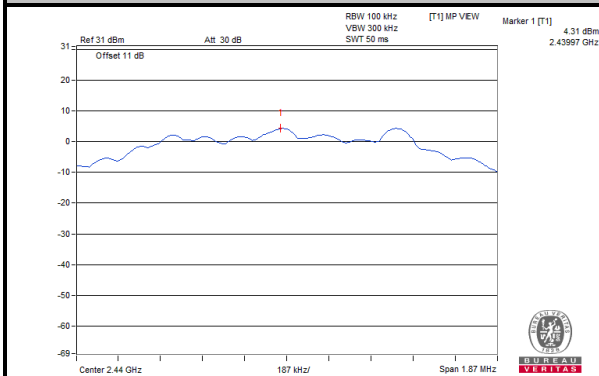


<LE 5.0>

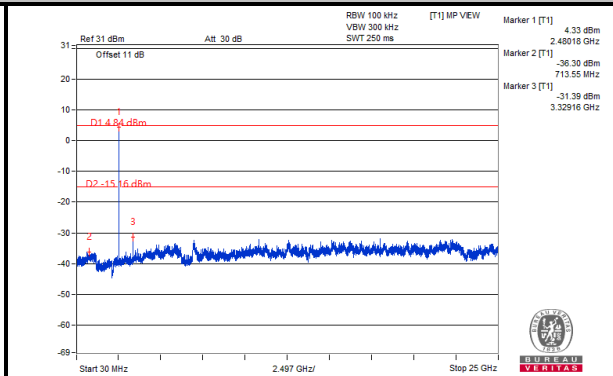
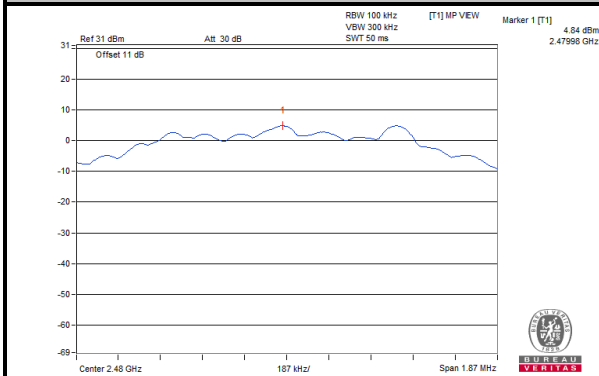
Ch 0



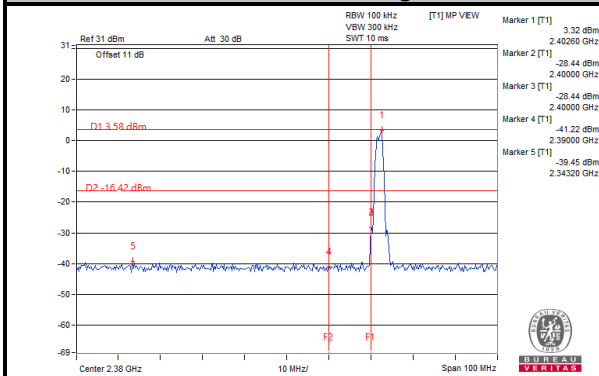
Ch 19



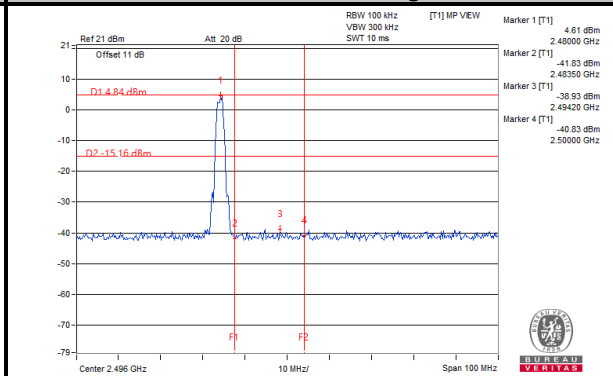
Ch 39



Ch 0 Band Edge



Ch 39 Band Edge



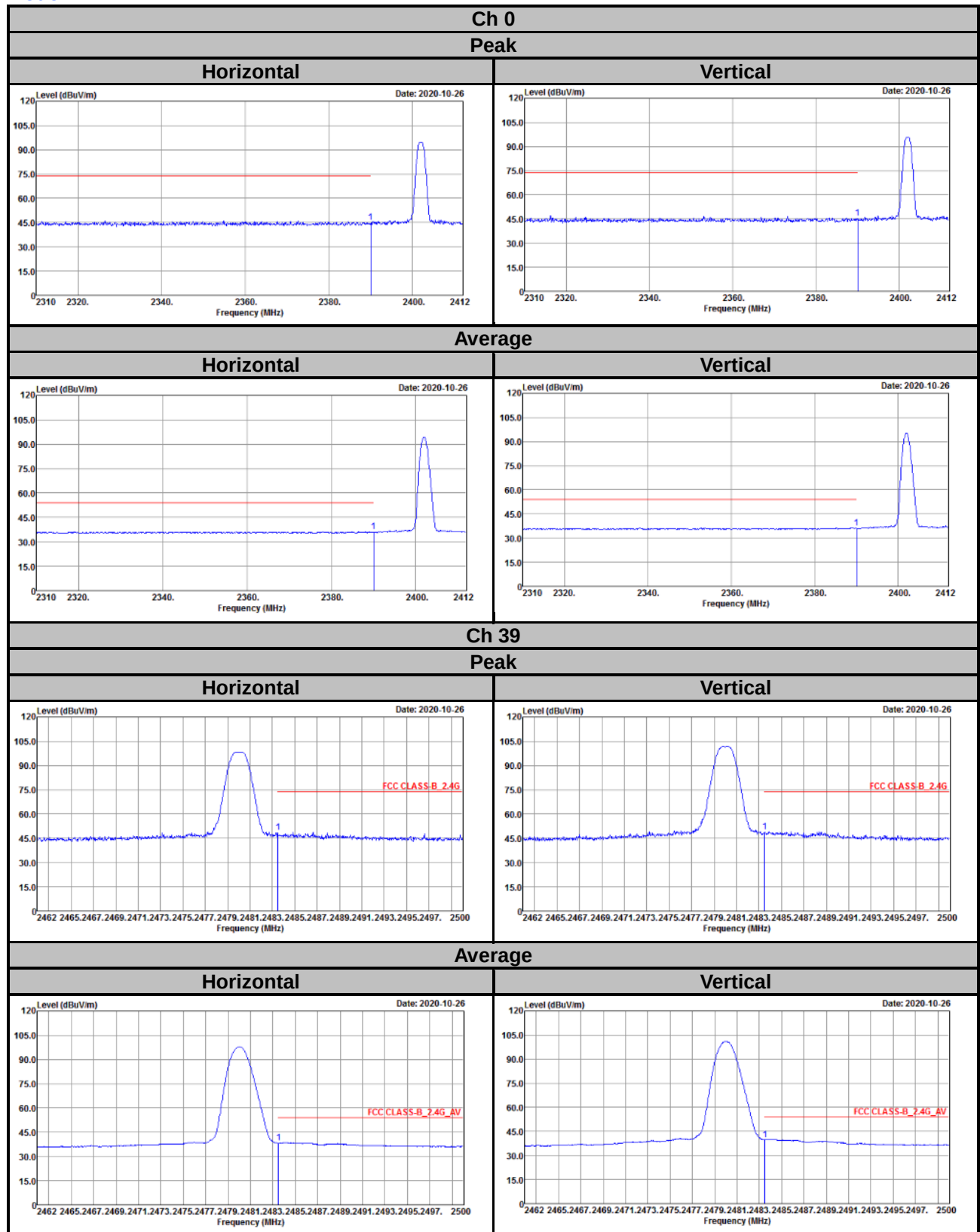
5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

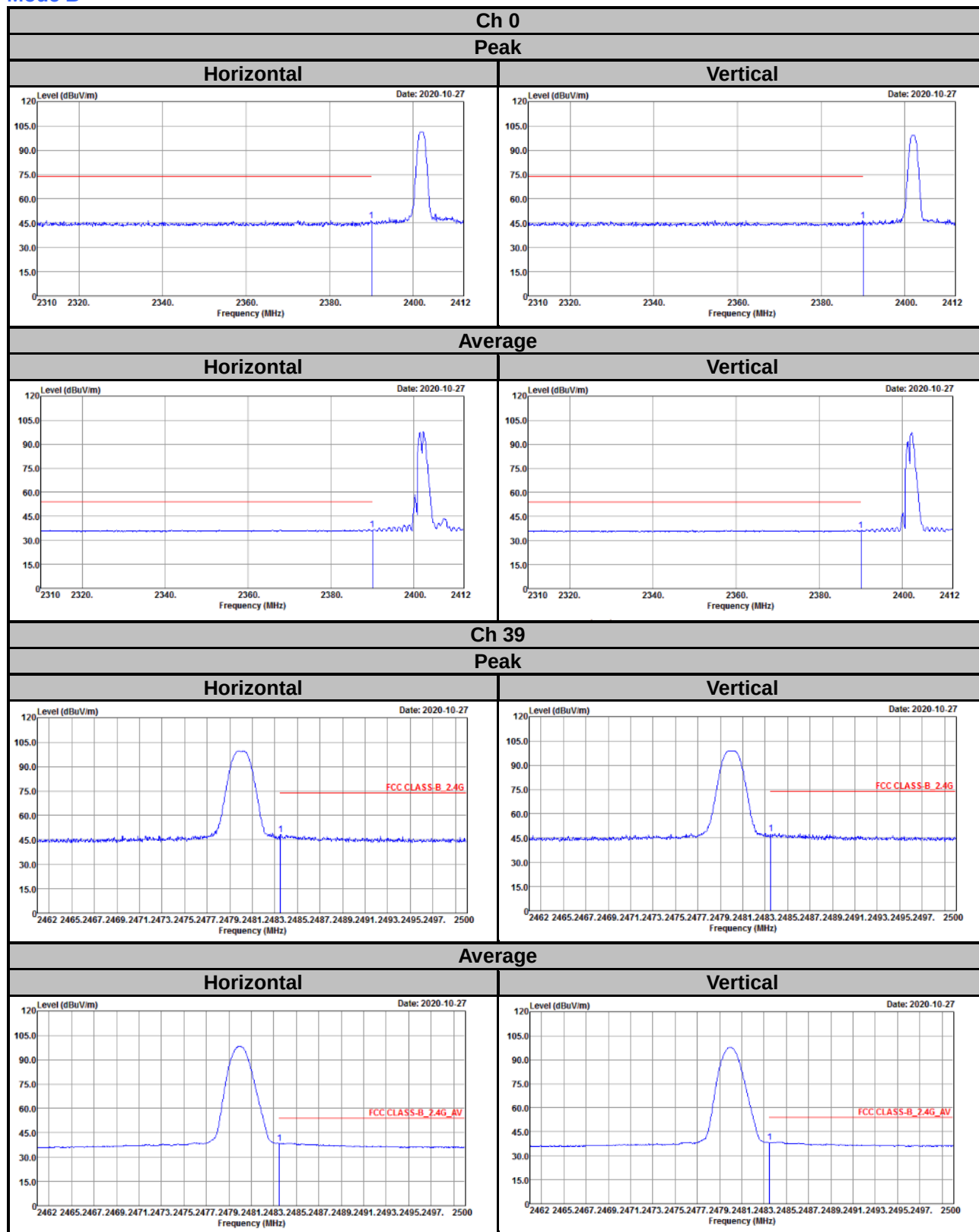
Annex A- Band Edge Measurement

<LE 4.2>

Mode A

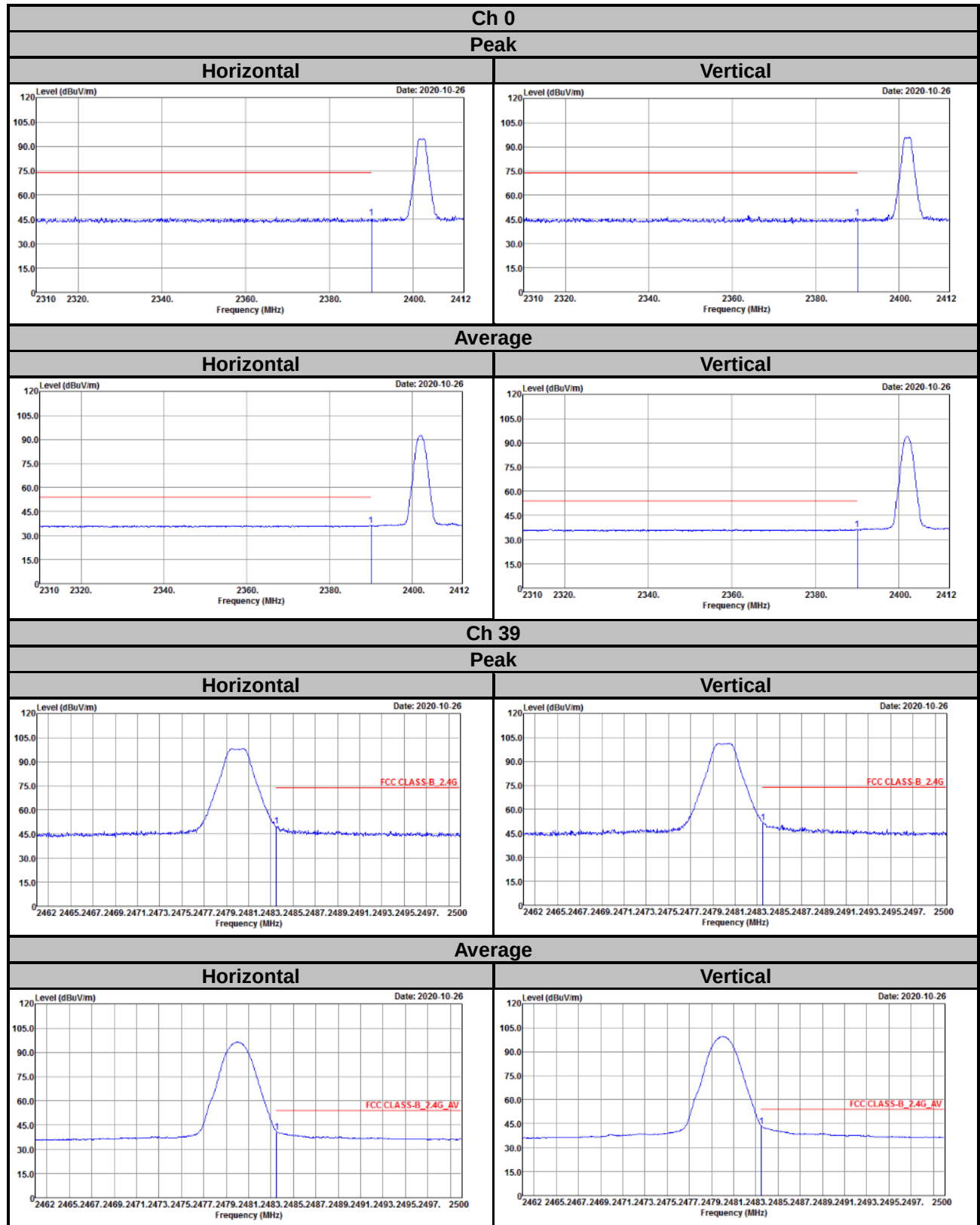


Mode B

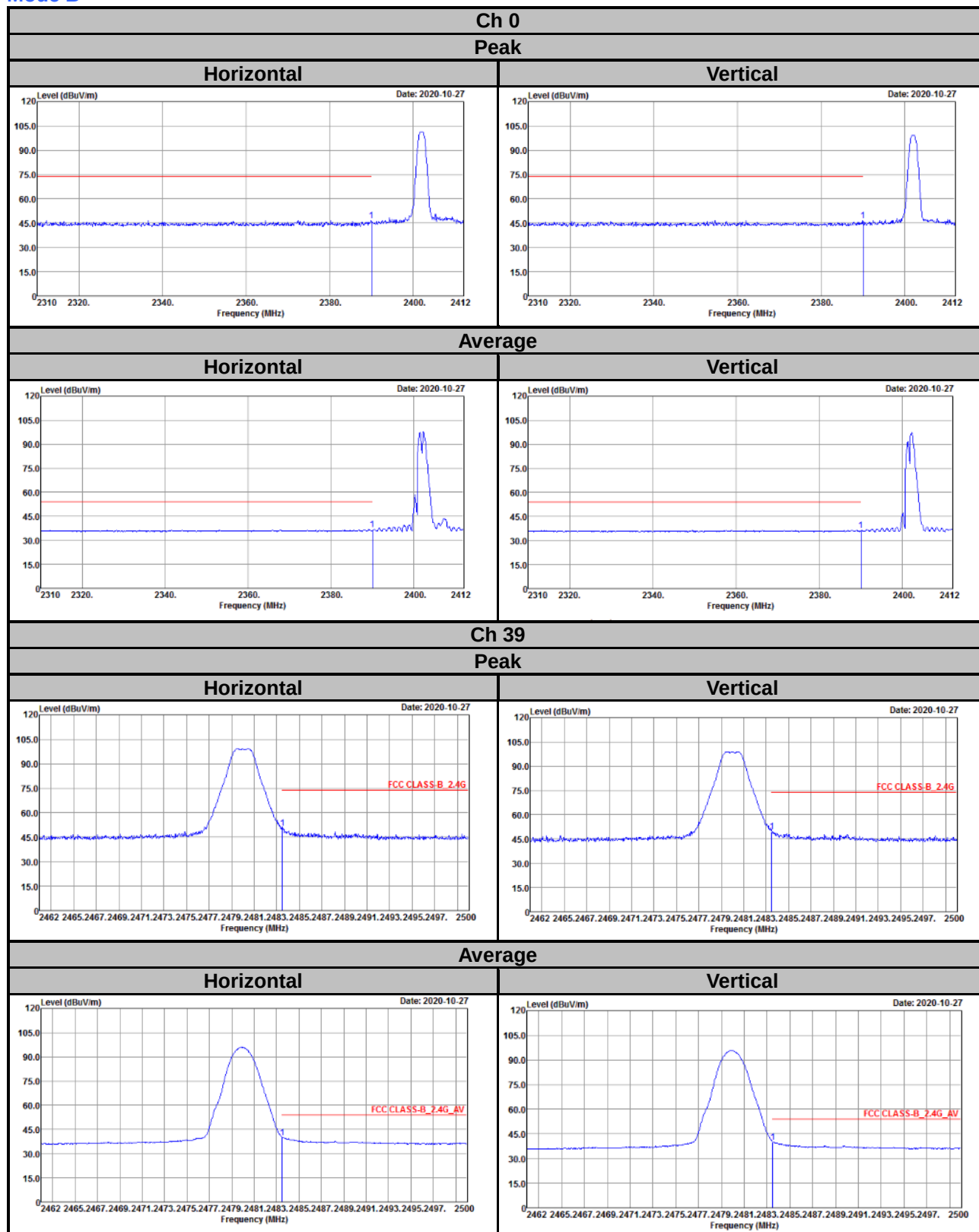


<LE 5.0>

Mode A



Mode B



Appendix – Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

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The address and road map of all our labs can be found in our web site also.

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