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Release Control Record

Issue No.	Description	Date Issued
RFBGSN-WTW-P20070580-7	Original Release	Dec. 01, 2020



Certificate of Conformity 1

Product:	Fleet Edge
Brand:	N/A
Test Model:	FL44TE
Sample Status:	Engineering Sample
Applicant:	Amazon.com Services LLC
Test Date:	Nov. 10 ~ Nov. 25, 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 / Specialist , Date: Dec. 01, 2020

RADE

Approved by :

Date: Dec. 01, 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 -13.12 dB at 8.746 MHz.						
15.205 & 209	Radiated Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -3.24 dB at 725.49 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: 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
	9 kHz ~ 30 MHz	3.04 dB
Radiated Emissions up to 1 GHz	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
Radiated Emissions above 1 GHZ	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	Fleet Edge
Brand	N/A
Test Model	FL44TE
Status of EUT	Engineering Sample
Power Supply Rating	12 Vdc
Modulation Type	GFSK
Transfer Data	LE 4.0: 1 Mbps
Transfer Rate	LE 5.0: 2 Mbps
Operating Frequency	2402 ~ 2480 MHz
Number of Channel	40
Output Dowor	LE 4.0: 4.498 mW
Output Power	LE 5.0: 4.487 mW
Antenna Type	Refer to Note as below
Antenna Connector	N/A
Accessory Device	Refer to Note as below
Data Cable Supplied	N/A

Note:

1. The EUT contains following accessory devices.

Product	Brand	Model	Description
BT/WLAN Module	Intel	9560NGW	802.11 a/b/g/n/ac Wireless LAN + Bluetooth 5
WWAN Module	Quectel	EM06-A	WCDMA, LTE

2. The antenna information is listed as below.

	Anter	nna information		Peak gain w/ cable loss (dBi)			
Brand	Туре	Antenna Part number	Ant.	BT/WLAN 2.4 GHz	WLAN 5.15~5.35 GHz	WLAN 5.47~5.725 GHz	WLAN 5.725~5.85 GHz
	Multibood		0	-1.85	-4.8	-4.8	-4.8
TAUGLAS	wullipand	Multiband MA491.A.BICG.005.gb	1	-3.05	-3.5	-3.5	-3.5

3. 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.

4. 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)						
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 4.0>

EUT Co	nfigure		Applic	able To		Description
Mode		RE≥1G	RE<1G	PLC	APCM	Description
-				\checkmark		-
Where	RE≥10	G: Radiated Emi	ssion above 1 G	1G: Radiated E	mission below 1 GHz	
	PLC: Power Line Conducted Emission				CM: Antenna Po	rt Conducted Measurement

Note: The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **Z-plane**. **Note:** For radiated emission (below 1GHz) and power line conducted emission test items, the worst radiated emission mode was selected. **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)
-	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)
-	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)
-	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)
-	0 to 39	0, 19, 39	GFSK	1



<LE 5.0>

EUT Configure	Applicable To				President		
Mode	RE≥1G	RE<1G	PLC	APCM	Description		
-			\checkmark	\checkmark	-		
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: The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on Z-plane. Note: For radiated emission (below 1GHz) and power line conducted emission test items, the worst radiated emission mode was selected. 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)
-	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). Eollowing channel(s) was (were) selected for the final test as listed below

EUT Configure Mode	Available Channel	Tested Channel	Modulation Type	Data Rate (Mbps)	
-	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)
-	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.

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



Test Condition:

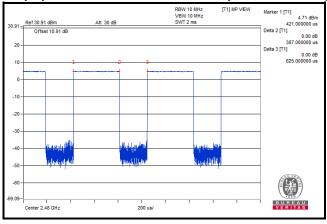
Applicable To	Environmental Conditions	Input Power	Tested by
RE≥1G 25 deg. C, 65 % RH		120 Vac, 60 Hz	Tim Chen, Getaz Yang
RE<1G	25 deg. C, 65 % RH	120 Vac, 60 Hz	Cyril Chen
PLC 24 deg. C, 67 % RH		120 Vac, 60 Hz	Anson Lin
АРСМ	25 deg. C, 60 % RH	120 Vac, 60 Hz	Gavin Wu

3.3 Duty Cycle of Test Signal

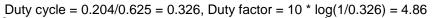
Duty cycle of test signal is < 98 %, duty factor shall be considered.

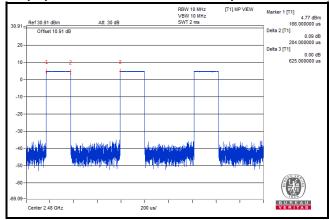
<LE 4.0>

```
Duty cycle = 0.387/0.625 = 0.619, Duty factor = 10 \times \log(1/0.619) = 2.08
```



<LE 5.0>







3.4 Description of Support Units

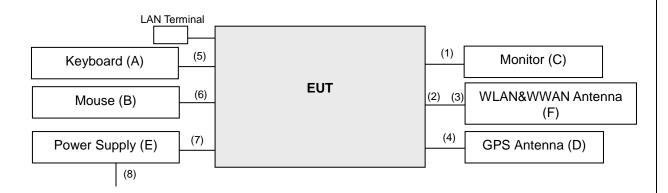
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
А	Keyboard	DELL	RT7D50	CN-0J4624-37172- 44T-000M	FCC DOC Approved	
В	Mouse	DELL	MS111-L	N/A	N/A	
С	Monitor	ViewSonic	VX2457-MHD	UG0182942333	N/A	
D	GPS Antenna	NA	NA	NA	NA	Provided by client
Е	Power Supply	NA	NA	NA	NA	
F	WLAN&WWAN Antenna	TAOGLAS	MA491.A.BICG.005.gb	NA	NA	Provided by client

Note: All power cords of the above support units are non-shielded (1.8m).

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	HDMI Cable	1	2	N	0	-
2.	RF Cable	1	0.5	Ν	0	-
3.	RF Cable	1	0.5	Ν	0	-
4.	RF Cable	1	0.5	N	0	-
5.	USB Cable	1	2.4	Ν	0	-
6.	USB Cable	1	2.2	Ν	0	-
7.	DC power Cable	1	1.2	N	0	-
8.	Power cord	1	1.8	N	0	-

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. 22, 2020	Nov. 23, 2020 Nov. 21, 2021
BILOG Antenna SCHWARZBECK	VULB 9168	9168-472	Nov. 06, 2020	Nov. 05, 2021
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-80 00	171005	Oct. 07, 2020	Oct. 06, 2021
RF Coaxial Cable HUBER+SUHNNER	SUCOFLEX 104	EMC104-SM-SM-10 00(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/MY551 90004/MY55190007/ MY55210005		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.
- The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98 %) or 10 Hz (Duty cycle ≥ 98 %) for Average detection (AV) at frequency above 1 GHz. (LE 4.0: RBW = 1 MHz, VBW = 3 kHz ; LE 5.0: RBW = 1 MHz, VBW = 5 kHz)
- 4. All modes of operation were investigated and the worst-case emissions are reported.

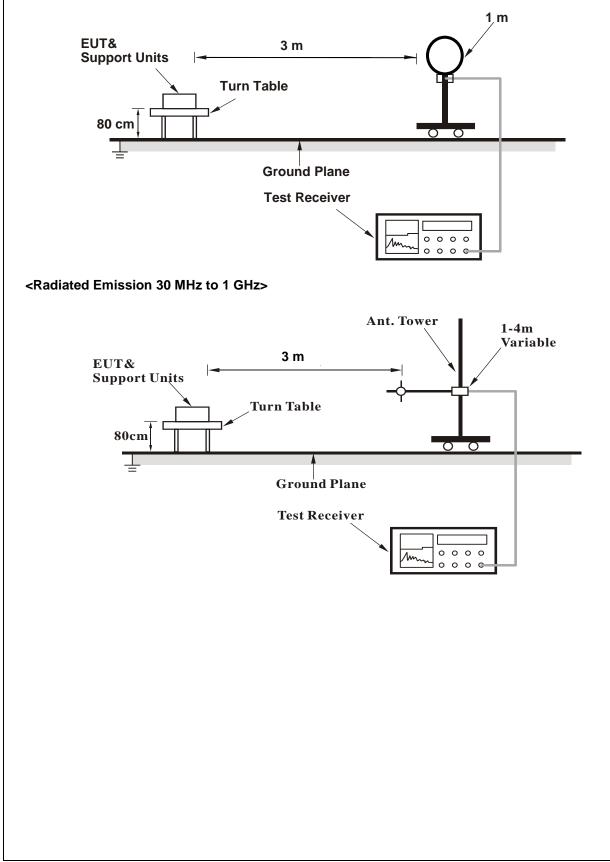
4.1.4 Deviation from Test Standard

No deviation.

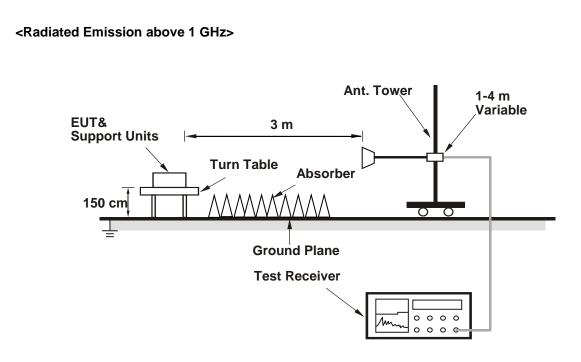


4.1.5 Test Set Up

<Radiated Emission below 30 MHz>







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

- 4.1.6 EUT Operating Conditions
- a. Placed the EUT on the testing table.
- b. Set the EUT under transmission condition continuously at specific channel frequency.



4.1.7 Test Results

Above 1 GHz Data:

<LE 4.0>

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	Tim 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	37.53	43.45	-5.92	54	-16.47	107	144	Average	
2390	47.32	53.24	-5.92	74	-26.68	107	144	Peak	
2402	95.91	101.85	-5.94			107	144	Average	
2402	96.79	102.73	-5.94			107	144	Peak	
4804	32.86	48.5	-15.64	54	-21.14	150	121	Average	
4804	42.02	57.66	-15.64	74	-31.98	150	121	Peak	
		Antenn	a Polarity &	Test Dista	nce: Vertica	l 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	37.38	43.3	-5.92	54	-16.62	216	171	Average	
2390	46.56	52.48	-5.92	74	-27.44	216	171	Peak	
2402	94.06	100	-5.94			216	171	Average	
2402	94.87	100.81	-5.94			216	171	Peak	
4804	34.35	49.99	-15.64	54	-19.65	153	122	Average	
4804	41.66	57.3	-15.64	74	-32.34	153	122	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		Peak (PK) Average (AV)		
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Tim 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	37.72	43.64	-5.92	54	-16.28	177	152	Average
2390	47.88	53.8	-5.92	74	-26.12	177	152	Peak
2440	94.98	100.86	-5.88			177	152	Average
2440	95.85	101.73	-5.88			177	152	Peak
2483.5	37.83	43.53	-5.7	54	-16.17	177	152	Average
2483.5	47.17	52.87	-5.7	74	-26.83	177	152	Peak
4880	33.94	49.5	-15.56	54	-20.06	163	123	Average
4880	41.86	57.42	-15.56	74	-32.14	163	123	Peak
		Antenn	a Polarity &	Test Dista	nce: Vertica	l at 3 m		

ntenn	a Polarity	&	Test Dista	nce:	Vertica	l 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	37.76	43.68	-5.92	54	-16.24	170	178	Average
2390	47.04	52.96	-5.92	74	-26.96	170	178	Peak
2440	91.74	97.62	-5.88			170	178	Average
2440	92.57	98.45	-5.88			170	178	Peak
2483.5	37.62	43.32	-5.7	54	-16.38	170	178	Average
2483.5	46.74	52.44	-5.7	74	-27.26	170	178	Peak
4880	34.14	49.7	-15.56	54	-19.86	122	155	Average
4880	42.49	58.05	-15.56	74	-31.51	122	155	Peak

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	Tim 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	98.09	103.79	-5.7			198	154	Average	
2480	98.84	104.54	-5.7			198	154	Peak	
2483.5	39.43	45.13	-5.7	54	-14.57	198	154	Average	
2483.5	49.16	54.86	-5.7	74	-24.84	198	154	Peak	
4960	34.92	50.37	-15.45	54	-19.08	108	199	Average	
4960	43.4	58.85	-15.45	74	-30.6	108	199	Peak	
		Antenn	a Polarity &	Test Dista	nce: Vertica	l 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	92.4	98.1	-5.7			100	217	Average	
2480	93.24	98.94	-5.7			100	217	Peak	
2483.5	37.76	43.46	-5.7	54	-16.24	100	217	Average	
2483.5	47.17	52.87	-5.7	74	-26.83	100	217	Peak	
4960	34.09	49.54	-15.45	54	-19.91	126	55	Average	
4960	42.12	57.57	-15.45	74	-31.88	126	55	Peak	

- 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.



<LE 5.0>

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	37.94	43.86	-5.92	54	-16.06	103	144	Average
2390	47.18	53.1	-5.92	74	-26.82	103	144	Peak
2402	94.69	100.63	-5.94			103	144	Average
2402	96.75	102.69	-5.94			103	144	Peak
4804	34.45	50.09	-15.64	54	-19.55	104	210	Average
4804	40.59	56.23	-15.64	74	-33.41	104	210	Peak
		Antenn	a Polarity 8	Test Dista	nce: Vertica	l 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	37.87	43.79	-5.92	54	-16.13	216	174	Average
2390	46.23	52.15	-5.92	74	-27.77	216	174	Peak
2402	93.22	99.16	-5.94			216	174	Average
2402	95.12	101.06	-5.94			216	174	Peak
4804	34.34	49.98	-15.64	54	-19.66	124	61	Average
4804	41.19	56.83	-15.64	74	-32.81	124	61	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		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	38.49	44.41	-5.92	54	-15.51	132	156	Average		
2390	48.19	54.11	-5.92	74	-25.81	132	156	Peak		
2440	94.87	100.75	-5.88			132	156	Average		
2440	96.58	102.46	-5.88			132	156	Peak		
2483.5	38.37	44.07	-5.7	54	-15.63	132	156	Average		
2483.5	47.31	53.01	-5.7	74	-26.69	132	156	Peak		
4880	34.65	50.21	-15.56	54	-19.35	115	215	Average		
4880	41.89	57.45	-15.56	74	-32.11	115	215	Peak		
		Antenn	a Polarity &	Test Dista	nce: Vertica	l 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	38.67	44.59	-5.92	54	-15.33	189	191	Average
2390	48.02	53.94	-5.92	74	-25.98	189	191	Peak
2440	92.47	98.35	-5.88			189	191	Average
2440	94.3	100.18	-5.88			189	191	Peak
2483.5	38.2	43.9	-5.7	54	-15.8	189	191	Average
2483.5	47.9	53.6	-5.7	74	-26.1	189	191	Peak
4880	34.49	50.05	-15.56	54	-19.51	127	82	Average
4880	41.95	57.51	-15.56	74	-32.05	127	82	Peak

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		Peak (PK) Average (AV)		
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Getaz Yang		

		Antenna	Polarity & T	Test Distand	ce: Horizont	tal 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	97.46	103.16	-5.7			203	158	Average
2480	99.31	105.01	-5.7			203	158	Peak
2483.5	42.28	47.98	-5.7	54	-11.72	203	158	Average
2483.5	51.93	57.63	-5.7	74	-22.07	203	158	Peak
4960	34.86	50.31	-15.45	54	-19.14	101	206	Average
4960	43.48	58.93	-15.45	74	-30.52	101	206	Peak
		Antenna	a Polarity &	Test Dista	nce: Vertica	l 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	92.94	98.64	-5.7			208	155	Average
2480	94.98	100.68	-5.7			208	155	Peak
2483.5	38.94	44.64	-5.7	54	-15.06	208	155	Average
2483.5	48.44	54.14	-5.7	74	-25.56	208	155	Peak
4960	34.82	50.27	-15.45	54	-19.18	122	59	Average
4960	43.39	58.84	-15.45	74	-30.61	122	59	Peak

 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.



9 kHz ~ 30 MHz Data:

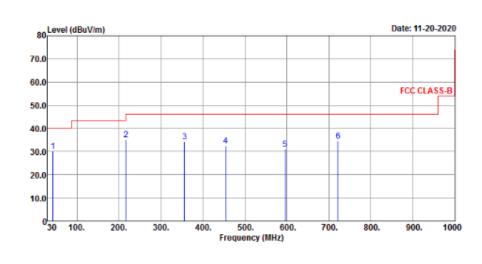
The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

30 MHz ~ 1 GHz Worst-Case Data:

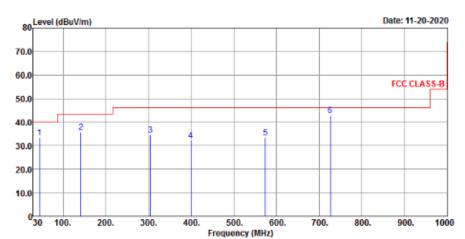
<LE 4.0>

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		
42.61	29.98	41.96	-11.98	40	-10.02	107	268	QP		
216.24	35.2	50.17	-14.97	46	-10.8	143	269	QP		
355.92	34.39	43.95	-9.56	46	-11.61	177	165	QP		
454.86	32.6	38.92	-6.32	46	-13.4	197	138	QP		
595.51	30.98	33.82	-2.84	46	-15.02	122	144	QP		
721.61	34.49	34.64	-0.15	46	-11.51	157	214	QP		
		Antenna	a Polarity &	Test Dista	nce: Vertica	l 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	33.22	45.09	-11.87	40	-6.78	104	239	QP		
141.55	35.79	47.77	-11.98	43.5	-7.71	166	98	QP		
304.51	34.42	45.42	-11	46	-11.58	157	198	QP		
399.57	32.2	40.56	-8.36	46	-13.8	138	133	QP		
574.17	33.5	37.11	-3.61	46	-12.5	152	134	QP		
725.49	42.76	42.7	0.06	46	-3.24	188	163	QP		

1. Emission Level = Read Level + Factor

Margin value = Emission level – Limit value

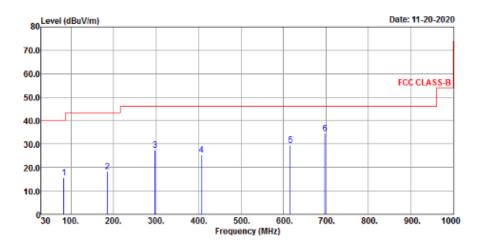
2. The emission levels of other frequencies were very low against the limit.



<LE 5.0>

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 80 Level (dBuV/m) Date: 11-20-2020 70.0 60.0 FCC CLASS-B 50.0 40.0 5 4 30.0 2 20.0 10.0 030 100. 200. 300. 700. 800. 900. 1000 400. 500. 600. Frequency (MHz)



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	
83.35	15.7	32.86	-17.16	40	-24.3	199	237	QP	
185.2	18.29	32.38	-14.09	43.5	-25.21	146	138	QP	
297.72	27.5	38.75	-11.25	46	-18.5	153	127	QP	
407.33	25.47	33.64	-8.17	46	-20.53	188	169	QP	
615.88	29.59	31.77	-2.18	46	-16.41	164	207	QP	
697.36	34.55	35.25	-0.7	46	-11.45	185	163	QP	
		Antenna	a Polarity 8	Test Dista	nce: Vertica	l 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	
71.71	25.23	39.53	-14.3	40	-14.77	185	89	QP	
265.71	24.35	36.72	-12.37	46	-21.65	117	230	QP	
402.48	29.08	37.39	-8.31	46	-16.92	158	269	QP	
556.71	32.37	36.62	-4.25	46	-13.63	143	236	QP	
625.58	33.63	35.51	-1.88	46	-12.37	155	207	QP	
701.24	37.6	38.21	-0.61	46	-8.4	138	127	QP	

1. Emission Level = Read Level + Factor

Margin value = Emission level – Limit value

2. 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

	Conducted Limit (dBuV)					
Frequency (MHz)	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 (with 10dB PAD) Woken	5D-FB	Cable-cond1-01	Sep. 05, 2019	Sep. 04, 2020
LISN/AMN ROHDE & SCHWARZ (EUT)	ESH3-Z5	835239/001	Mar. 17, 2019	Mar. 16, 2020
LISN/AMN ROHDE & SCHWARZ (Peripheral)	ENV216	101196	Apr. 16, 2019	Apr. 15, 2020
Software ADT	BV ADT_Cond_ V7.3.7.3	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.
- 3. The VCCI Site Registration No. is C-12040.

4.2.3 Test Procedures

- a. 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.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit 20 dB) was not recorded.

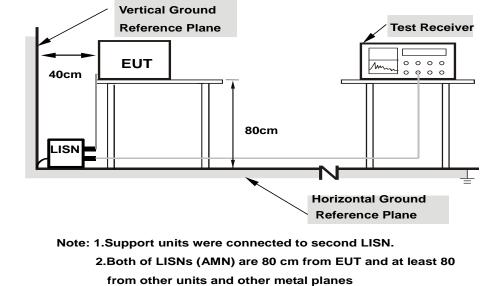
Note: The resolution bandwidth and video bandwidth of test receiver is 9 kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15 MHz - 30 MHz.



4.2.4 Deviation from Test Standard

No deviation.





- 4.2.6 EUT Operating Conditions
- a. Placed the EUT on the testing table.
- b. Set the EUT under transmission condition continuously at specific channel frequency.



4.2.7 Test Results

CONDUCTED WORST-CASE DATA

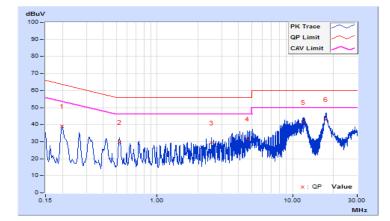
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	24℃, 67%RH
Tested by	Tim Chen	Test Date	2020/11/21

	Phase Of Power : Line (L)										
No	Frequency	Correction Factor		Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
	(MHz)	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	
1	0.19800	9.66	29.29	25.04	38.95	34.70	63.69	53.69	-24.74	-18.99	
2	0.52844	9.66	20.13	13.91	29.79	23.57	56.00	46.00	-26.21	-22.43	
3	2.51800	9.71	19.74	15.39	29.45	25.10	56.00	46.00	-26.55	-20.90	
4	4.63000	9.75	22.00	13.12	31.75	22.87	56.00	46.00	-24.25	-23.13	
5	11.97400	9.81	31.46	26.99	41.27	36.80	60.00	50.00	-18.73	-13.20	
6	17.61800	9.86	33.36	25.50	43.22	35.36	60.00	50.00	-16.78	-14.64	

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

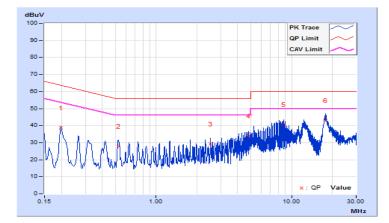




Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	24℃, 67%RH
Tested by	Tim Chen	Test Date	2020/11/21

	Phase Of Power : Neutral (N)									
No	Frequency	Correction Factor		eading Value Emission Level (dBuV) (dBuV)		Limit (dBuV)		Margin (dB)		
	(MHz)	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.19800	9.68	29.17	25.27	38.85	34.95	63.69	53.69	-24.84	-18.74
2	0.52567	9.68	18.31	10.85	27.99	20.53	56.00	46.00	-28.01	-25.47
3	2.51800	9.74	19.69	15.25	29.43	24.99	56.00	46.00	-26.57	-21.01
4	4.84200	9.78	24.32	19.81	34.10	29.59	56.00	46.00	-21.90	-16.41
5	8.74600	9.82	31.02	27.06	40.84	36.88	60.00	50.00	-19.16	-13.12
6	17.75000	9.96	33.14	25.96	43.10	35.92	60.00	50.00	-16.90	-14.08

- 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



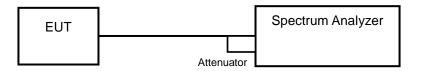


4.3 6 dB Bandwidth Measurement

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

- a. Set resolution bandwidth (RBW) = 100 kHz
- b. Set the video bandwidth (VBW) \ge 3 x RBW, Detector = Peak.
- c. Trace mode = max hold.
- d. Sweep = auto couple.
- e. 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

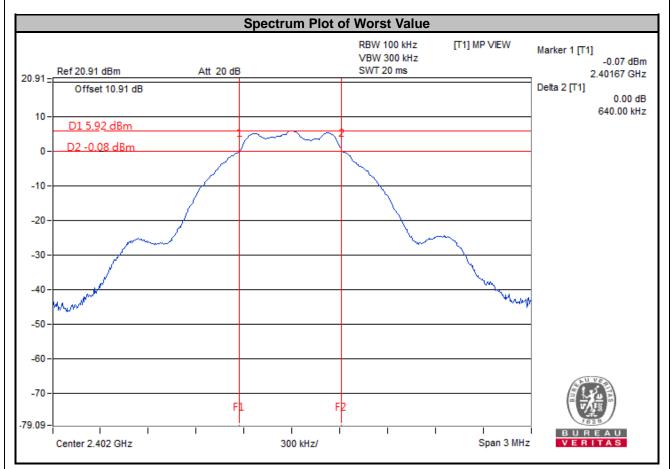
The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



4.3.7 Test Results

<LE 4.0>

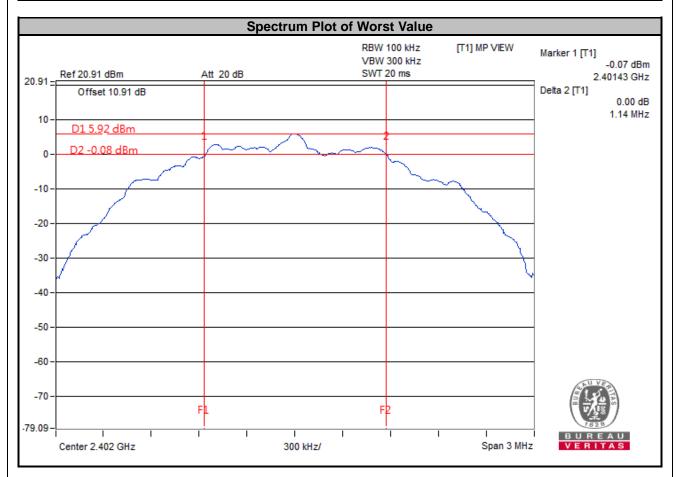
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
0	2402	0.64	0.5	Pass
19	2440	0.65	0.5	Pass
39	2480	0.66	0.5	Pass





<LE 5.0>

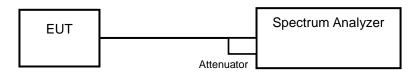
Channel	Frequency (MHz)	6 dB Bandwidth Minimum Limi (MHz) (MHz)		Pass / Fail	
0	2402	1.14	0.5	Pass	
19	2440	1.14	0.5	Pass	
39	2480	1.15	0.5	Pass	





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

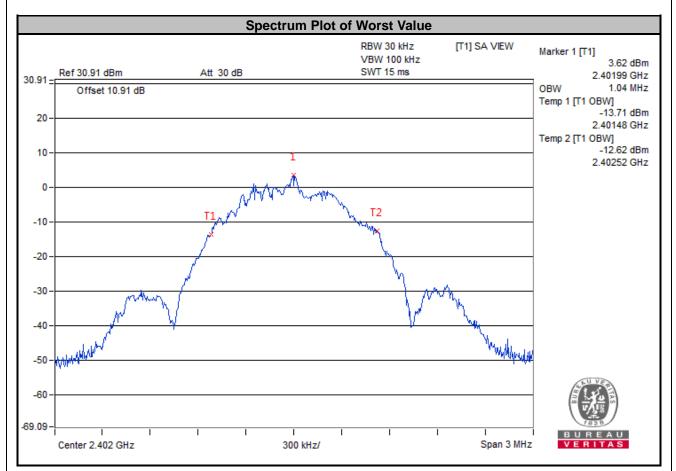
The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



4.4.6 Test Results

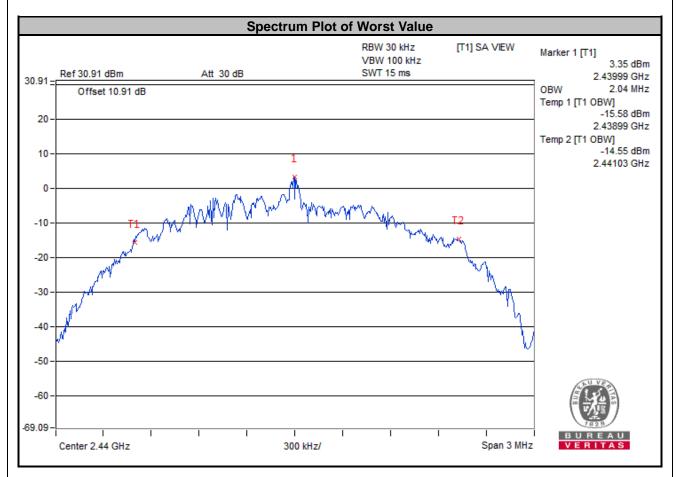
<LE 4.0>

Channel	Frequency (MHz) Occupied Bandwidth (MHz)		Pass / Fail	
0	2402	1.04	Pass	
19	2440	1.03	Pass	
39	2480	1.02	Pass	





Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	Pass / Fail	
0	2402	2.03	Pass	
19	2440	2.04	Pass	
39	2480	2.03	Pass	



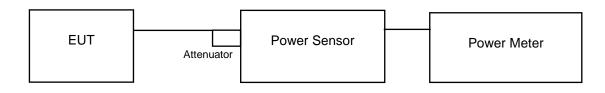


4.5 Conducted Output Power Measurement

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 4.0>

Channel		Peak Power		Average Power		Power Limit	
Channel	Freq. (MHz)	(mW)	(dBm)	(mW)	(dBm)	(mW)	Pass / Fail
0	2402	3.972	5.99	3.733	5.72	1000	Pass
19	2440	4.046	6.07	3.945	5.96	1000	Pass
39	2480	4.498	6.53	4.406	6.44	1000	Pass

Channel		Peak Power		Average Power		Power Limit	
Channel	Freq. (MHz)	(mW)	(dBm)	(mW)	(dBm)	(mW)	Pass / Fail
0	2402	3.999	6.02	3.882	5.89	1000	Pass
19	2440	4.046	6.07	3.954	5.97	1000	Pass
39	2480	4.487	6.52	4.406	6.44	1000	Pass

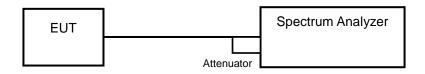


4.6 Power Spectral Density Measurement

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

- a. Set analyzer center frequency to DTS channel center frequency.
- b. Set the span to 1.5 times the DTS bandwidth.
- c. Set the RBW to: $3 \text{ kHz} \le \text{RBW} \le 100 \text{ kHz}$.
- d. Set the VBW \geq 3 × RBW.
- e. Detector = peak.
- f. Sweep time = auto couple.
- g. Trace mode = max hold.
- h. Allow trace to fully stabilize.
- i. 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

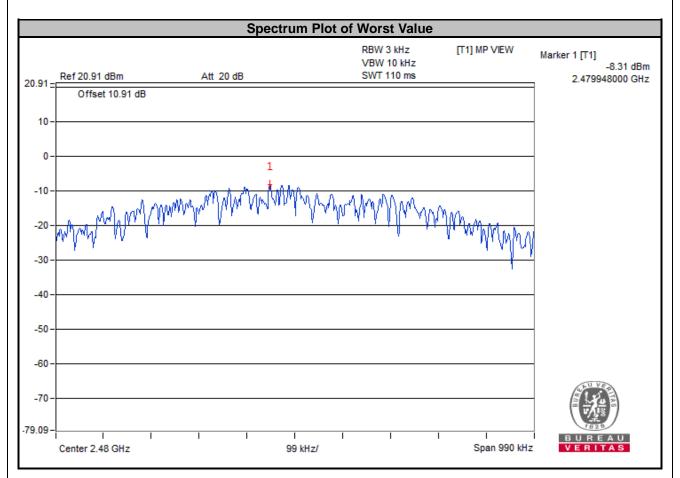
The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



4.6.7 Test Results

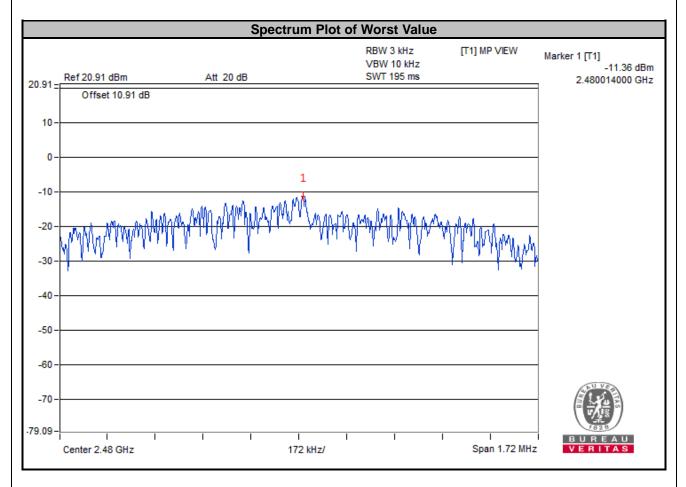
<LE 4.0>

Channel	Frequency (MHz)	PSD (dBm/3 kHz)	Limit (dBm/3 kHz)	Pass / Fail
0	2402	-8.89	8	Pass
19	2440	-8.70	8	Pass
39	2480	-8.31	8	Pass





Channel	Frequency (MHz)	PSD (dBm/3 kHz)	Limit (dBm/3 kHz)	Pass / Fail
0	2402	-11.84	8	Pass
19	2440	-11.78	8	Pass
39	2480	-11.36	8	Pass



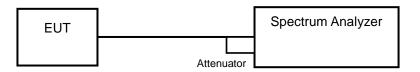


4.7 Conducted Out of Band Emission Measurement

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.

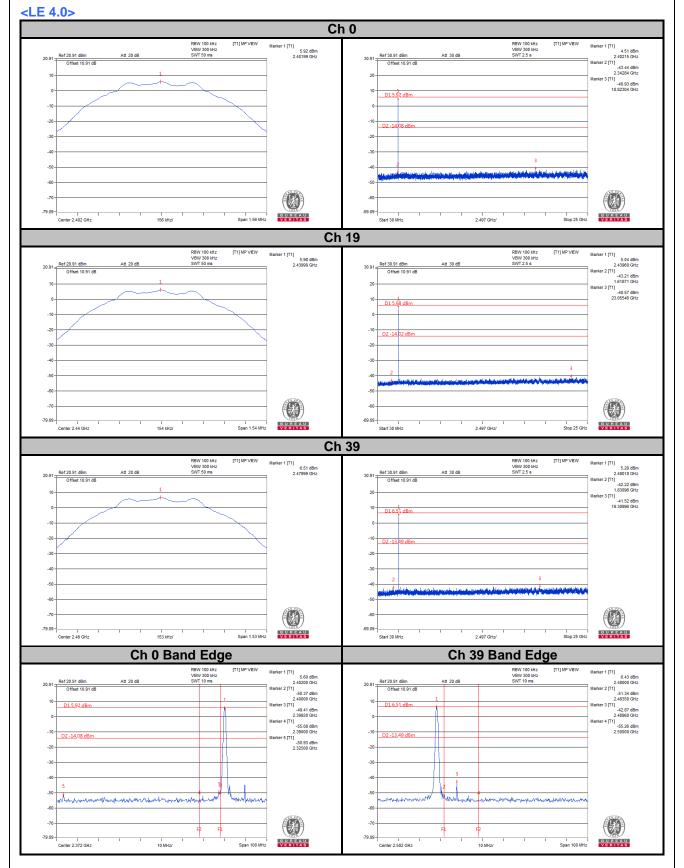
4.7.6 EUT Operating Condition

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

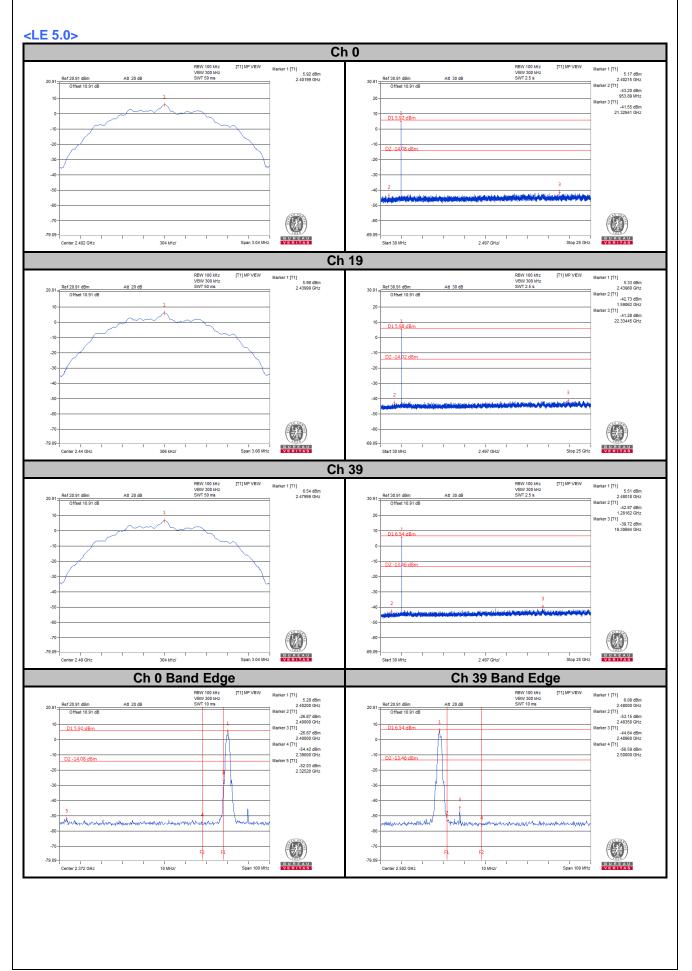


4.7.7 Test Results

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.









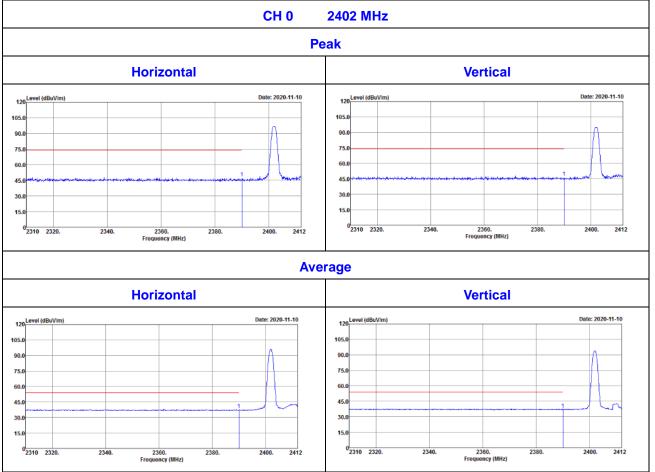
5 Pictures of Test Arrangements

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

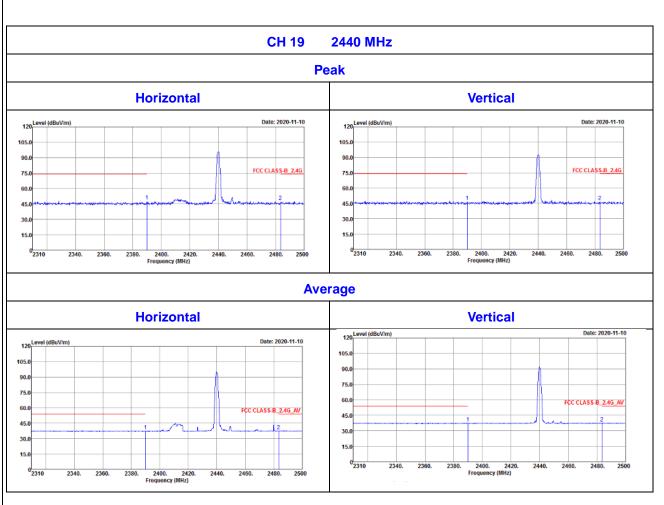


Annex A- Band Edge Measurement

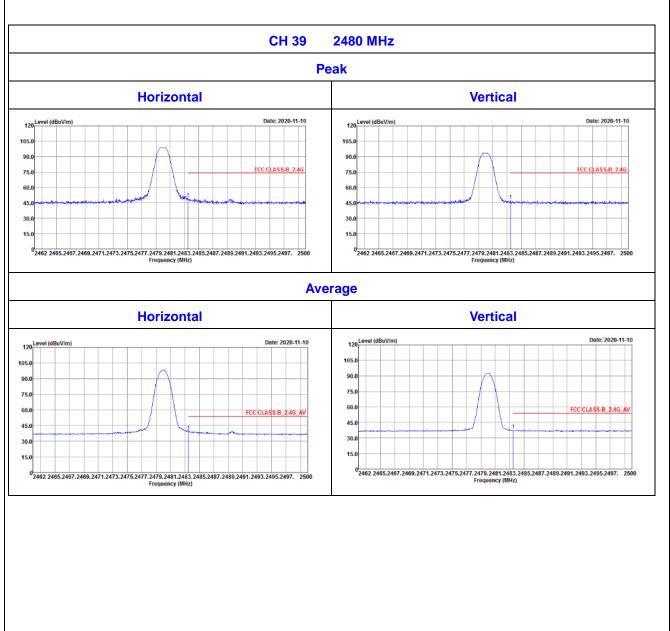
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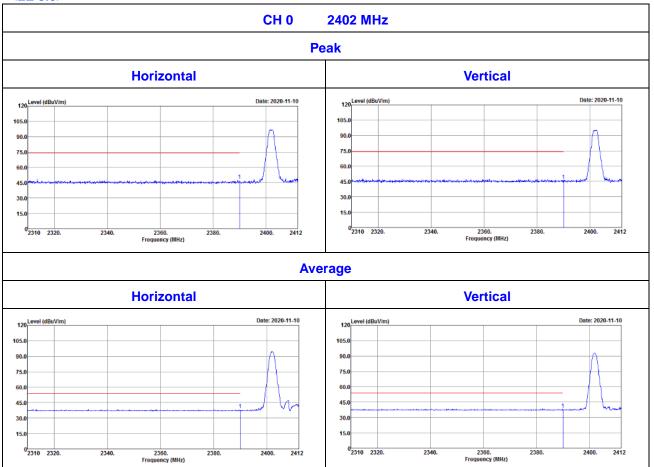




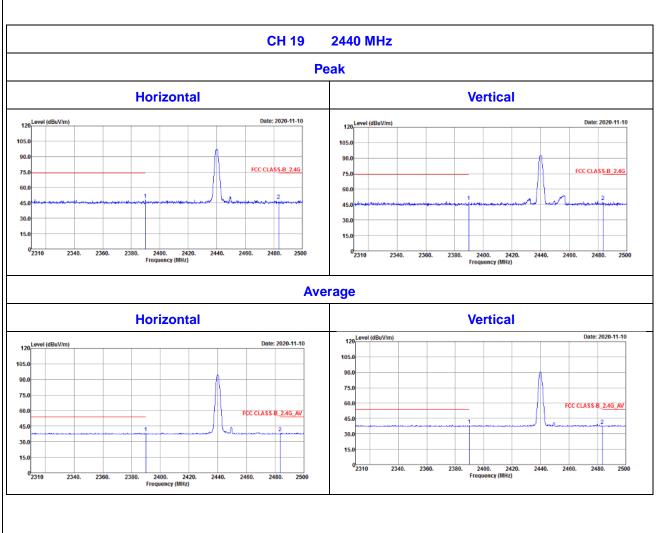




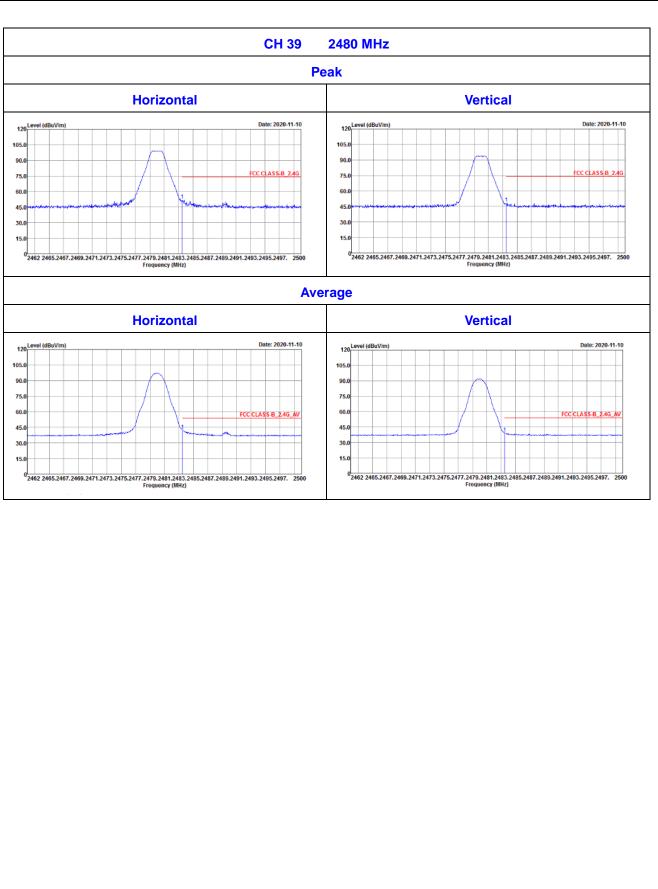














Appendix – Information of the Testing Laboratories

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.

If you have any comments, please feel free to contact us at the following:

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Hwa Ya EMC/RF/Safety Lab

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Email: <u>service.adt@tw.bureauveritas.com</u> Web Site: <u>www.bureauveritas-adt.com</u>

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

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