

## FCC Test Report

**Report No.:** RFBDUI-WTW-P20110877-1

**FCC ID:** KA2M15A1

**Test Model:** M15

**Received Date:** Feb. 25, 2021

**Test Date:** Mar. 09 ~ May 20, 2021

**Issued Date:** Jun. 29, 2021

**Applicant:** D-Link Corporation

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**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch  
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**FCC Registration /  
Designation Number (1):** 788550 / TW0003

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**FCC Registration /  
Designation Number (2):** 427177 / TW0011



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### Release Control Record

Issue No.	Description	Date Issued
RFBDUI-WTW-P20110877-1	Original release.	Jun. 29, 2021

## 1 Certificate of Conformity

**Product:** AX1500 Wi-Fi 6 AI Mesh Router, AX1500 Wi-Fi 6 AI Mesh System,  
AX1500 Mesh Router, AX1500 Mesh System

**Brand:** D-Link

**Test Model:** M15

**Sample Status:** Engineering sample

**Applicant:** D-Link Corporation

**Test Date:** Mar. 09 ~ May 20, 2021

**Standards:** 47 CFR FCC Part 15, Subpart E (Section 15.407)  
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 :** Pettie Chen , **Date:** Jun. 29, 2021  
Pettie Chen / Senior Specialist

**Approved by :** Bruce Chen , **Date:** Jun. 29, 2021  
Bruce Chen / Senior Project Engineer

## 2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
FCC Clause	Test Item	Result	Remarks
15.407(b)(8)	AC Power Conducted Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -16.82dB at 0.42761MHz.
15.407(b)(1/2/3/4(i/ii)/8)	Radiated Emissions & Band Edge Measurement	Pass	Meet the requirement of limit. Minimum passing margin is -1.01dB at 5150.00MHz, 11490.00MHz.
15.407(a)(1/2/3)	Max Average Transmit Power	Pass	Meet the requirement of limit.
---	Occupied Bandwidth Measurement	Pass	Meet the requirement of limit.
15.407(a)(1/2/3)	Peak Power Spectral Density	Pass	Meet the requirement of limit.
15.407(e)	6dB bandwidth	Pass	Meet the requirement of limit. (U-NII-3 Band only)
15.407(g)	Frequency Stability	Pass	Meet the requirement of limit.
15.203	Antenna Requirement	Pass	For Antenna 2G1, 5G1: Antenna connector is CCT MHF not a standard connector. For Antenna 2G2, 5G2: Antenna connector is KS-MHF not a standard connector.

Note:

1. For U-NII-3 band compliance with rule part 15.407(b)(4)(i), the OOB test plots were recorded in item 4.1.7.
2. For U-NII-1 band compliance with rule 15.407(b) of the band-edge items, the test plots were recorded in Annex A. Test Procedures refer to report 4.1.3.
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	150kHz ~ 30MHz	2.79 dB
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	2.44 dB
	30MHz ~ 200MHz	2.0153 dB
	200MHz ~ 1000MHz	2.0224 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	1.0121 dB
	18GHz ~ 40GHz	1.1508 dB

### 2.2 Modification Record

There were no modifications required for compliance.

### 3 General Information

#### 3.1 General Description of EUT

Product	AX1500 Wi-Fi 6 AI Mesh Router, AX1500 Wi-Fi 6 AI Mesh System, AX1500 Mesh Router, AX1500 Mesh System
Brand	D-Link
Test Model	M15
Sample Status	Engineering sample
Power Supply Rating	12Vdc from Adapter
Modulation Type	256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM 1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA
Modulation Technology	OFDM, OFDMA
Transfer Rate	802.11a: 54/48/36/24/18/12/9/6Mbps 802.11n (HT20/40): up to 300Mbps 802.11ac (VHT20/40/80): up to 866.7Mbps 802.11ax: up to 1201.0Mbps
Operating Frequency	5180~5240MHz, 5745~5825MHz
Number of Channel	5180 ~ 5240MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 4 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 2 802.11ac (VHT80), 802.11ax (HE80): 1 5745 ~ 5825MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 5 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 2 802.11ac (VHT80), 802.11ax (HE80): 1
Output Power	CDD Mode: 5180~5240MHz: 280.255mW 5745~5825MHz: 245.779mW Beamforming Mode: 5180~5240MHz: 132.791mW 5745~5825MHz: 122.898mW
Antenna Type	Refer to note
Antenna Connector	Refer to note
Accessory Device	Adapter
Cable Supplied	1.0m CAT5E 24AWG CCA WHITE CABLE (Brand: Nienyi, Model: NY4710 REV.0)

Note:

1. The following product names and model are provided to this EUT.

Product	Model	Description
AX1500 Wi-Fi 6 AI Mesh Router	M15	For marketing purpose.
AX1500 Wi-Fi 6 AI Mesh System		
AX1500 Mesh Router		
AX1500 Mesh System		

2. The EUT incorporates a MIMO function. Physically, the EUT provides 2 completed transmitters and 2 receivers.

Modulation Mode	CDD Mode	Beamforming Mode	TX Function
802.11a	Support	Not Support	2TX
802.11n (HT20)	Support	Support	2TX
802.11n (HT40)	Support	Support	2TX
802.11ac (VHT20)	Support	Support	2TX
802.11ac (VHT40)	Support	Support	2TX
802.11ac (VHT80)	Support	Support	2TX
802.11ax (HE20)	Support	Support	2TX
802.11ax (HE40)	Support	Support	2TX
802.11ax (HE80)	Support	Support	2TX

\* The bandwidth and modulation are similar for HT20/HT40 on 802.11n mode and VHT20/VHT40/VHT80 on 802.11ac mode and HE20/HE40/HE80 on 802.11ax mode. Therefore the investigated worst case is the representative mode in test report. (Final test mode refer section 3.2.1)

\* For 802.11n and 802.11ac, CDD mode and Beamforming mode are presented in power output test item. For other test items, CDD mode is the worst case for final tests after pretesting.

\* Scanning Radio is RX only.

3. The EUT consumes power from the following adapters.

Product	Brand	Model	Description
Adapter 1	Amigo	AMS159A-1201000F (US+UK)	I/P: 100-240 Vac, 50/60 Hz, 0.5 A O/P: 12 Vdc, 1 A
Adapter 2	Amigo	AMS159A-1201000F (EU+UK)	I/P: 100-240 Vac, 50/60 Hz, 0.5 A O/P: 12 Vdc, 1 A
Adapter 3	Amigo	AMS159A-1201000FU (US)	I/P: 100-240 Vac, 50/60 Hz, 0.5 A O/P: 12 Vdc, 1 A
Adapter 4	Amigo	AMS159A-1201000FS (AU)	I/P: 100-240 Vac, 50/60 Hz, 0.5 A O/P: 12 Vdc, 1 A
Adapter 5	Amigo	AMS159A-1201000FV (EU)	I/P: 100-240 Vac, 50/60 Hz, 0.5 A O/P: 12 Vdc, 1 A
Adapter 6	Amigo	AMS195-1201000FY (IN)	I/P: 100-240 Vac, 50/60 Hz, 0.5 A O/P: 12 Vdc, 1 A
Adapter 7	Amigo	AMS195-1201000FK (KR)	I/P: 100-240 Vac, 50/60 Hz, 0.5 A O/P: 12 Vdc, 1 A
Adapter 8	Amigo	AMS159A-1201000FX (BR)	I/P: 100-240 Vac, 50/60 Hz, 0.5 A O/P: 12 Vdc, 1 A
Adapter 9	Amigo	AMS159A-1201000FB (UK)	I/P: 100-240 Vac, 50/60 Hz, 0.5 A O/P: 12 Vdc, 1 A

\*All adapters only different in plug. Therefore, use US type (adapter 3) as a representative for test.



4. The following antennas were provided to the EUT.

Antenna Type		PIFA								
Antenna Connector		2G1, 5G1: CCT MHF, 2G2, 5G2: KS-MHF								
Brand		WHA YU								
Antenna No.	P/N	Gain (dBi)								
		2400 MHz	2450 MHz	2500 MHz	5150 MHz	5250 MHz	5350 MHz	5725 MHz	5750 MHz	5825 MHz
2G1	C1958-510011-A	2.29	2.31	2.27	-				-	-
2G2	C1958-510012-A	2.51	2.56	2.43	-				-	-
5G1	C1958-510013-A	-	-	-	2.19	2.37	2.44	2.24	2.36	2.23
5G2	C1958-510014-A	-	-	-	2.51	2.33	2.64	2.77	2.56	2.62

\* 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.

5. WLAN 2.4GHz & WLAN 5GHz technology can transmit at same time.

6. Spurious emission of the simultaneous operation (WLAN 2.4GHz and WLAN 5GHz) has been evaluated and no non-compliance was found.

### 3.2 Description of Test Modes

#### For 5180 ~ 5240MHz:

4 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20):

Channel	Frequency	Channel	Frequency
36	5180 MHz	44	5220 MHz
40	5200 MHz	48	5240 MHz

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40):

Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz

1 channel is provided for 802.11ac (VHT80), 802.11ax (HE80):

Channel	Frequency
42	5210MHz

#### For 5745 ~ 5825MHz:

5 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20):

Channel	Frequency	Channel	Frequency
149	5745MHz	161	5805MHz
153	5765MHz	165	5825MHz
157	5785MHz		

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40):

Channel	Frequency	Channel	Frequency
151	5755MHz	159	5795MHz

1 channel is provided for 802.11ac (VHT80), 802.11ax (HE80):

Channel	Frequency
155	5775MHz

### 3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable to				Description
	RE $\geq$ 1G	RE $<$ 1G	PLC	APCM	
-	√	√	√	√	-

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

Note:

1. The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on X-plane.
2. Radiated emission test (below 1GHz) and power line conducted emission test items chosen the worst radiated emission (above 1GHz) channel for final testing.

#### Radiated Emission Test (Above 1GHz):

- 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	Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)
-	802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	6.0
	802.11ax (HE20)		36 to 48	36, 40, 48	OFDMA	MCS0
	802.11ax (HE40)		38 to 46	38, 46	OFDMA	MCS0
	802.11ax (HE80)		42	42	OFDMA	MCS0
-	802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	6.0
	802.11ax (HE20)		149 to 165	149, 157, 165	OFDMA	MCS0
	802.11ax (HE40)		151 to 159	151, 159	OFDMA	MCS0
	802.11ax (HE80)		155	155	OFDMA	MCS0

#### Radiated Emission Test (Below 1GHz):

- 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	Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)
-	802.11a	5180-5240	36 to 48	40	OFDMA	6.0
		5745-5825	149 to 165		OFDMA	6.0

#### 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	Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)
-	802.11a	5180-5240	36 to 48	40	OFDMA	6.0
		5745-5825	149 to 165		OFDMA	6.0

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	Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)
-	802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	6.0
	802.11ax (HE20)		36 to 48	36, 40, 48	OFDMA	MCS0
	802.11ax (HE40)		38 to 46	38, 46	OFDMA	MCS0
	802.11ax (HE80)		42	42	OFDMA	MCS0
-	802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	6.0
	802.11ax (HE20)		149 to 165	149, 157, 165	OFDMA	MCS0
	802.11ax (HE40)		151 to 159	151, 159	OFDMA	MCS0
	802.11ax (HE80)		155	155	OFDMA	MCS0

Test Condition:

Applicable to	Environmental Conditions	Input Power	Tested by
RE $\geq$ 1G	23 deg. C, 67% RH	120Vac, 60Hz	Karl Lee, Charies Hsiao
RE $<$ 1G	23 deg. C, 67% RH	120Vac, 60Hz	Karl Lee
PLC	23 deg. C, 66% RH	120Vac, 60Hz	Cookie Ku
APCM	25 deg. C, 60% RH	120Vac, 60Hz	Vicent Huang

### 3.3 Duty Cycle of Test Signal

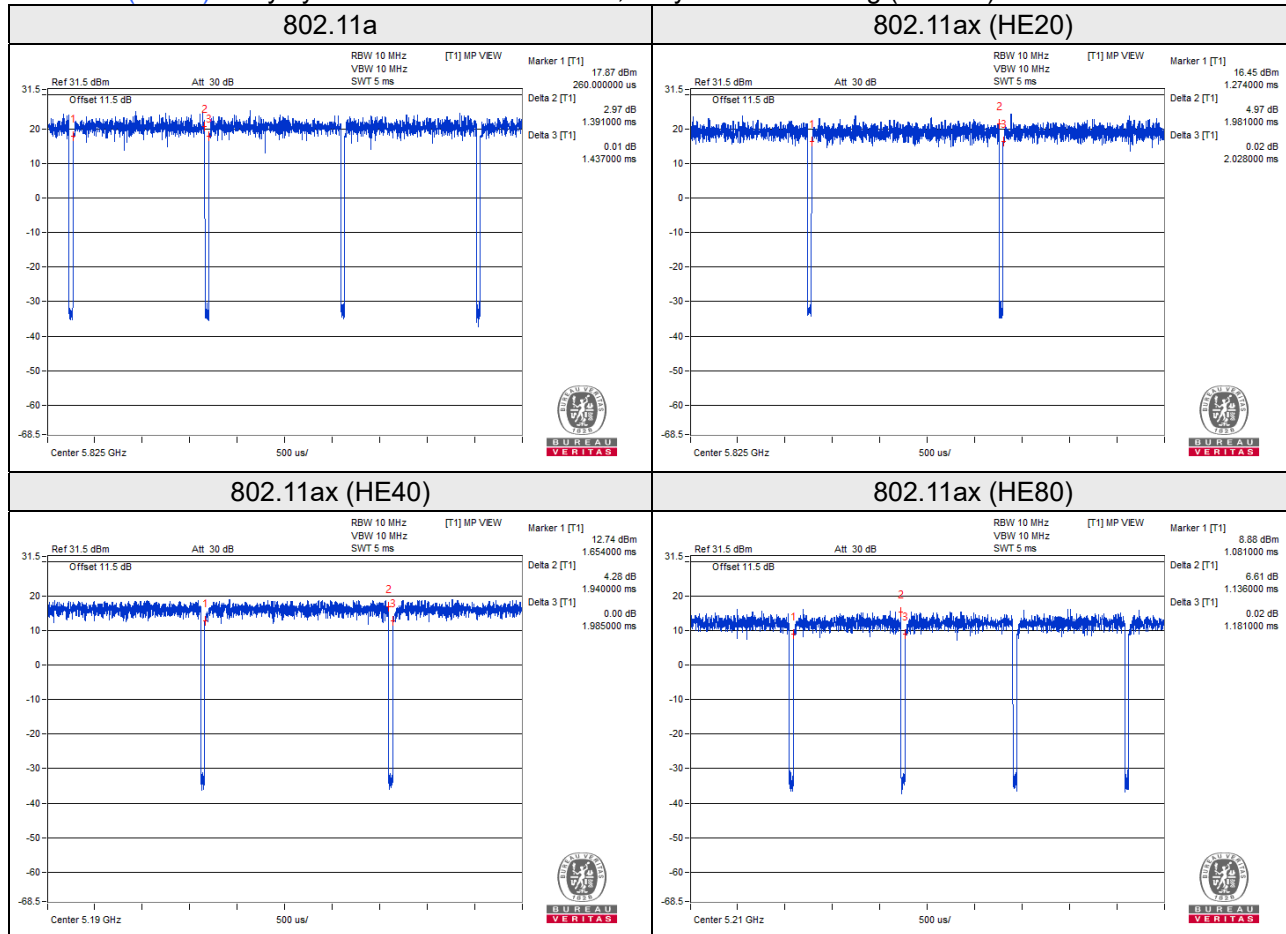
Duty cycle of test signal is < 98%, duty factor shall be considered.

802.11a: Duty cycle = 1.391/1.437 = 0.968, Duty factor =  $10 * \log(1/0.968) = 0.14$

802.11ax (HE20): Duty cycle = 1.981/2.028 = 0.977, Duty factor =  $10 * \log(1/0.977) = 0.10$

802.11ax (HE40): Duty cycle = 1.94/1.985 = 0.977, Duty factor =  $10 * \log(1/0.977) = 0.10$

802.11ax (HE80): Duty cycle = 1.136/1.181 = 0.962, Duty factor =  $10 * \log(1/0.962) = 0.17$



### 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.

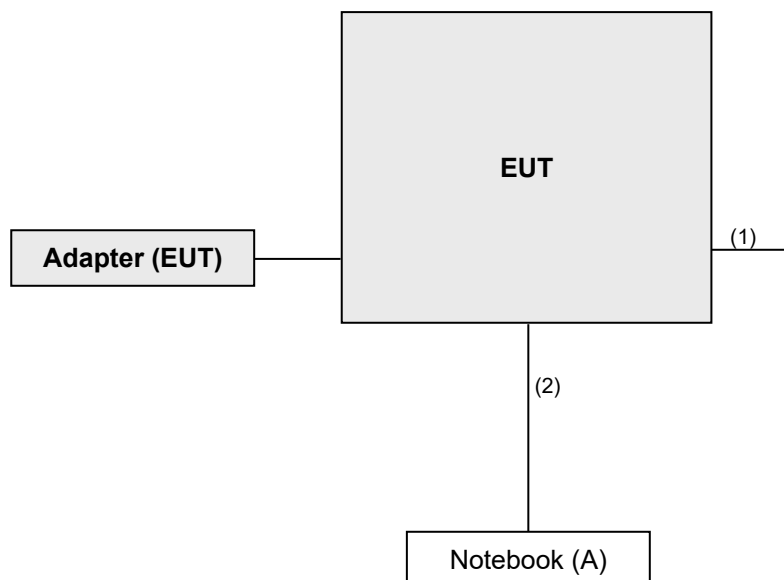
ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Notebook	DELL	LATITUDE	F9MQBW1	FCC DoC Approved	-

Note:

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

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	LAN	1	1.5	N	0	RJ45, Cat5e (provided by lab)
2.	LAN	1	1.0	N	0	RJ45, Cat5e (Accessory)

#### 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 E (15.407)**

ANSI C63.10:2013

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

**References Test Guidance:**

**KDB 789033 D02 General UNII Test Procedure New Rules v02r01**

**KDB 662911 D01 Multiple Transmitter Output v02r01**

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.

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 1000MHz, 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 20dB under any condition of modulation.

**Limits of unwanted emission out of the restricted bands**

Applicable To		Limit	
789033 D02 General UNII Test Procedure New Rules v02r01		Field Strength at 3m	
		PK: 74 (dBµV/m)	AV: 54 (dBµV/m)
Frequency Band	Applicable To	EIRP Limit	Equivalent Field Strength at 3m
5150~5250 MHz	15.407(b)(1)	PK: -27 (dBm/MHz)	PK: 68.2(dBµV/m)
5250~5350 MHz	15.407(b)(2)		
5470~5725 MHz	15.407(b)(3)		
5725~5850 MHz	<input checked="" type="checkbox"/> 15.407(b)(4)(i)	PK: -27 (dBm/MHz) <sup>*1</sup> PK: 10 (dBm/MHz) <sup>*2</sup> PK: 15.6 (dBm/MHz) <sup>*3</sup> PK: 27 (dBm/MHz) <sup>*4</sup>	PK: 68.2 (dBµV/m) <sup>*1</sup> PK: 105.2 (dBµV/m) <sup>*2</sup> PK: 110.8 (dBµV/m) <sup>*3</sup> PK: 122.2 (dBµV/m) <sup>*4</sup>
	<input type="checkbox"/> 15.407(b)(4)(ii)	Emission limits in section 15.247(d)	
<sup>*1</sup> beyond 75 MHz or more above of the band edge. <sup>*3</sup> below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.		<sup>*2</sup> below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. <sup>*4</sup> from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.	

Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000 \sqrt{30 P}}{3} \quad \mu\text{V/m, where P is the eirp (Watts).$$

#### 4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver Agilent Technologies	N9038A	MY52260177	Aug. 24, 2020	Aug. 23, 2021
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Apr. 16, 2020	Apr. 17, 2021
			Apr. 12, 2021	Apr. 11, 2022
HORN Antenna ETS-Lindgren	3117	00143293	Nov. 22, 2020	Nov. 21, 2021
BILOG Antenna SCHWARZBECK	VULB 9168	9168-616	Nov. 09, 2020	Nov. 08, 2021
HORN Antenna SCHWARZBECK	BBHA 9170	9170-480	Nov. 22, 2020	Nov. 21, 2021
Fixed Attenuator Mini-Circuits	MDCS18N-10	MDCS18N-10-01	Apr. 14, 2020	Apr. 13, 2021
			Apr. 13, 2021	Apr. 12, 2022
Loop Antenna	EM-6879	269	Sep. 17, 2020	Sep. 16, 2021
MXG Vector signal generator Agilent	N5182B	MY53050430	Nov. 25, 2020	Nov. 24, 2021
Preamplifier Agilent	310N	187226	Jun. 17, 2020	Jun. 16, 2021
Preamplifier Agilent	83017A	MY39501357	Jun. 17, 2020	Jun. 16, 2021
Preamplifier EMCI	EMC 184045	980116	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 signal cable ETS-LINDGREN	5D-FB	Cable-CH1-01(RFC-S MS-100-SMS-120+RF C-SMS-100-SMS-400)	Jun. 17, 2020	Jun. 16, 2021
RF signal cable ETS-LINDGREN	8D-FB	Cable-CH1-02(RFC-S MS-100-SMS-24)	Jun. 17, 2020	Jun. 17, 2021
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
Software BV ADT	E3 8.130425b	NA	NA	NA
Antenna Tower MF	NA	NA	NA	NA
Turn Table MF	NA	NA	NA	NA
Antenna Tower & Turn Table Controller MF	MF-7802	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 Xindian Chamber 1.



### 4.1.3 Test Procedures

#### For Radiated emission below 30MHz

- 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 9kHz at frequency below 30MHz.

#### For Radiated emission above 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) 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 detect 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:

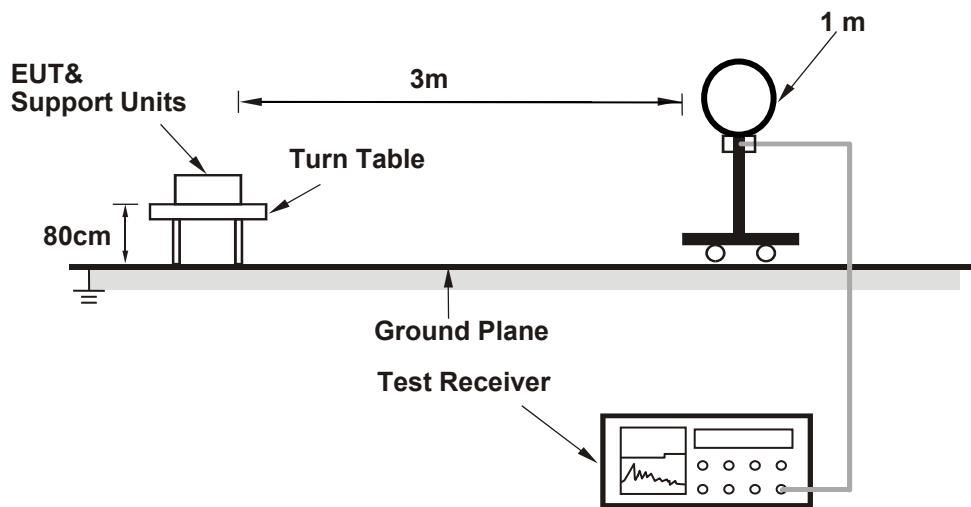
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.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

### 4.1.4 Deviation from Test Standard

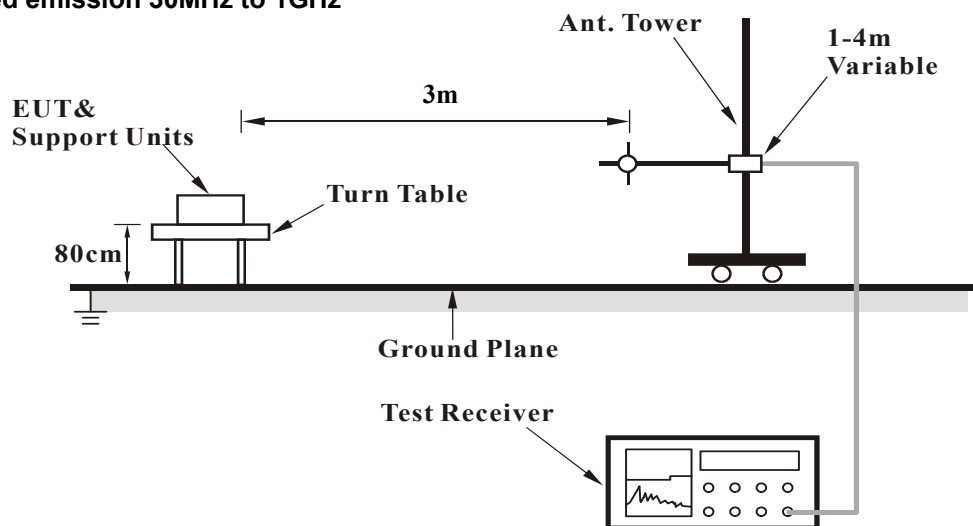
No deviation.

#### 4.1.5 Test Setup

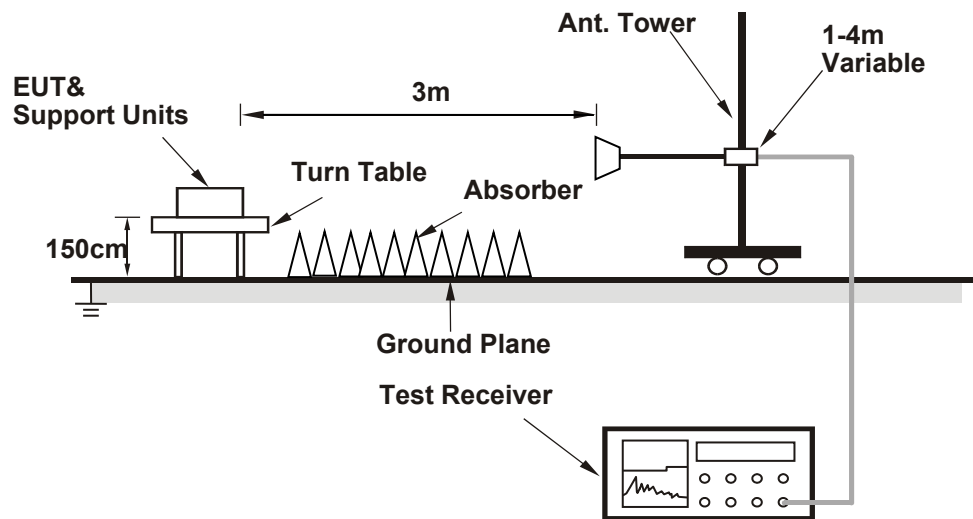
##### For Radiated emission below 30MHz



##### For Radiated emission 30MHz to 1GHz



### For Radiated emission above 1GHz



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

#### 4.1.6 EUT Operating Conditions

- Connected EUT with a notebook system via a RJ45 cable and placed on a testing table.
- The notebook ran a test program (provided by manufacturer) to enable EUT under transmission condition continuously at specific channel frequency.

#### 4.1.7 Test Results

Above 1GHz data:

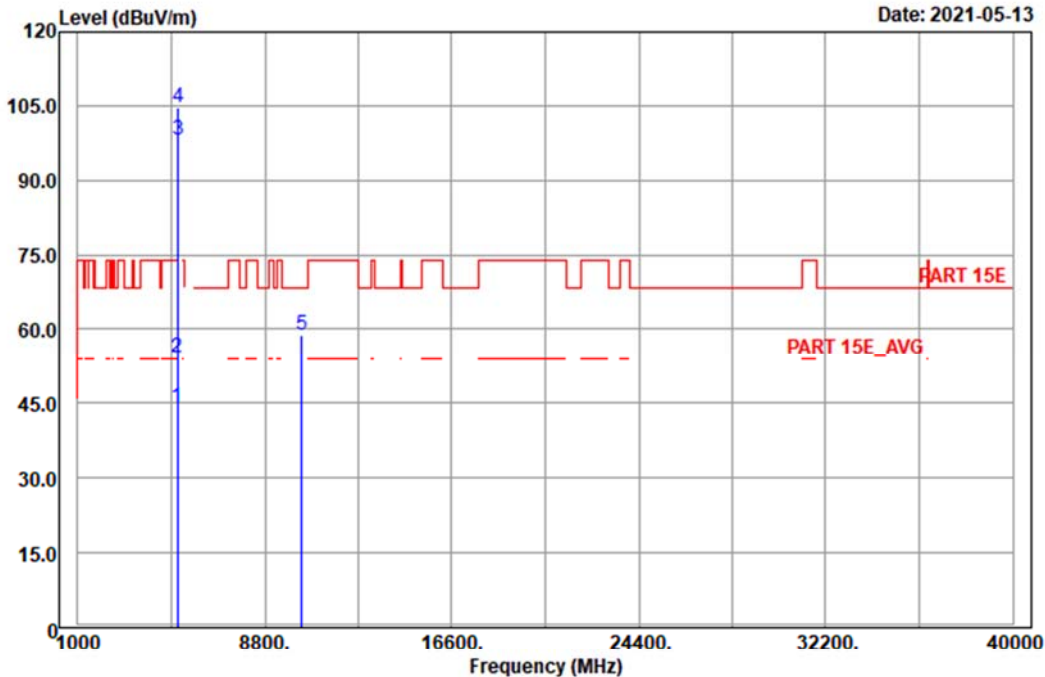
802.11a



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 13



Site : 966 chamber 1  
 Condition: PART 15E 3m Horizontal  
 Remark : 11A\_TX\_CH36  
 Tested by: Karl Lee  
 Rate : 6M  
 Power : 20/20  
 RB/VB : 1 MHz / 1 KHz

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg	
1 av	5150.00	44.08	34.03	10.05	54.00	-9.92	137	104	Average
2	5150.00	54.20	44.15	10.05	74.00	-19.80	137	104	Peak
3	5180.00	98.22	88.10	10.12	-----	-----	108	116	Average
4	5180.00	104.60	94.48	10.12	-----	-----	108	116	Peak
5 pp	10360.00	58.99	42.97	16.02	68.20	-9.21	200	6	Peak

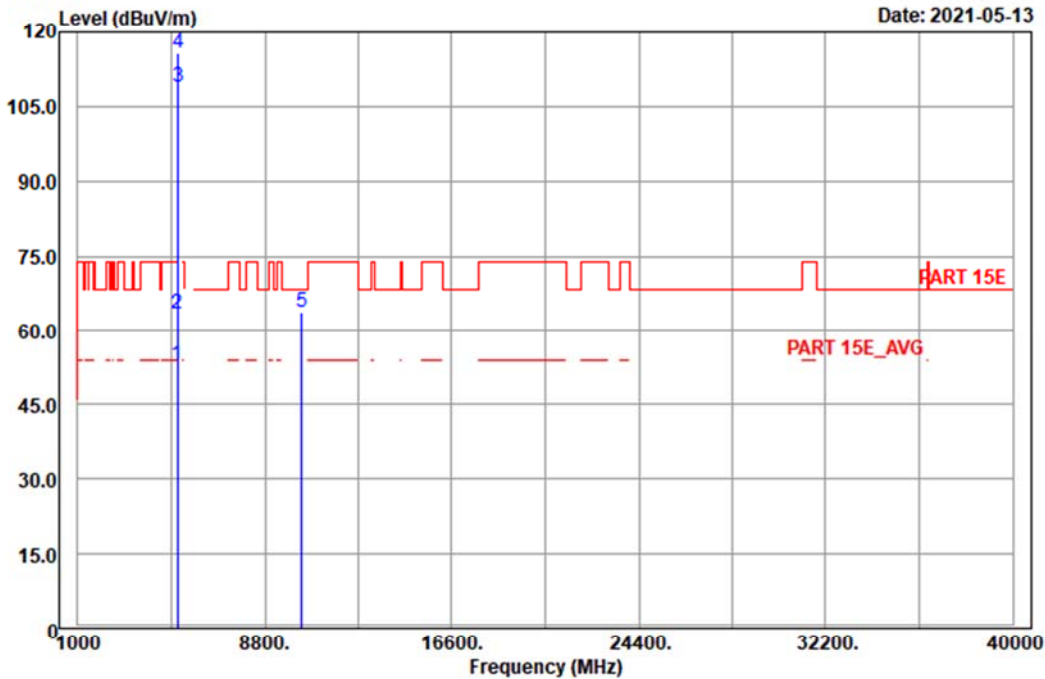
#### Remarks:

1. Level(dBuV/m) = Read Level(dBuV) + Factor(dB/m)
2. Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Over limit = Level – Limit value
5. The emission levels of other frequencies were very low against the limit.



A D T

Data: 14



Site : 966 chamber 1  
 Condition: PART 15E 3m Vertical  
 Remark : 11A\_TX\_CH36  
 Tested by: Karl Lee  
 Rate : 6M  
 Power : 20/20  
 RB/VB : 1 MHz / 1 KHz

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg	
1 pp	5150.00	52.83	42.78	10.05	54.00	-1.17	197	353	Average
2	5150.00	63.32	53.27	10.05	74.00	-10.68	197	353	Peak
3	5180.00	109.00	98.88	10.12	-----	-----	181	1	Average
4	5180.00	115.80	105.68	10.12	-----	-----	181	1	Peak
5 pk	10360.00	63.61	47.59	16.02	68.20	-4.59	201	285	Peak

Remarks:

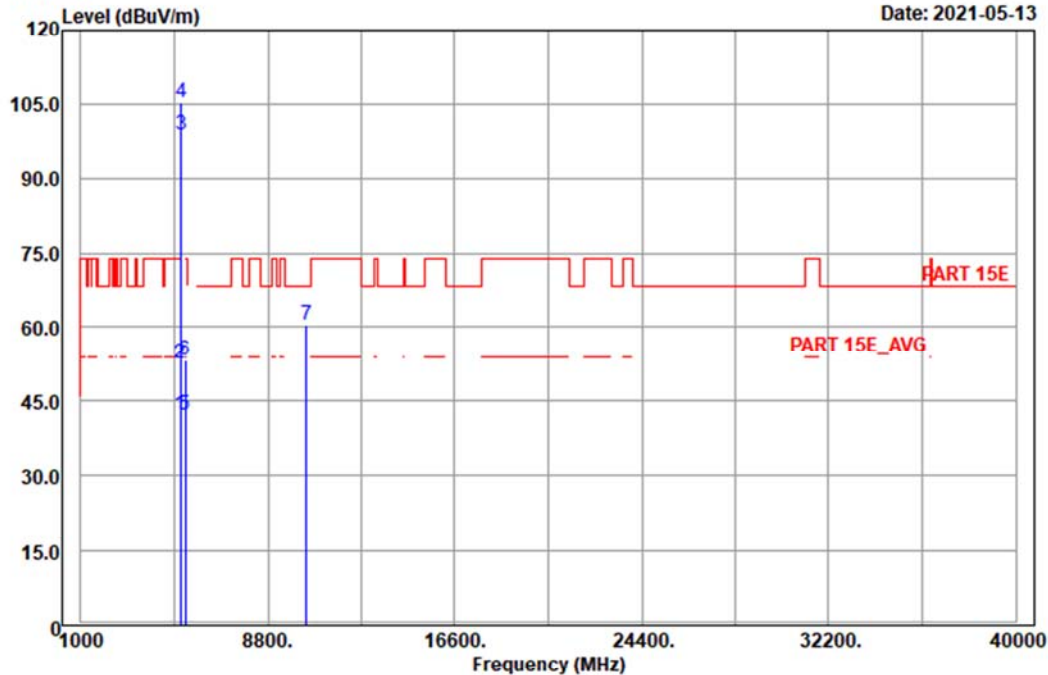
1. Level(dBuV/m) = Read Level(dBuV) + Factor(dB/m)
2. Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Over limit = Level – Limit value
5. The emission levels of other frequencies were very low against the limit.



A D T

Data: 19

Date: 2021-05-13



Site : 966 chamber 1  
 Condition: PART 15E 3m Horizontal  
 Remark : 11A\_TX\_CH40  
 Tested by: Charles Hsiao  
 Rate : 6M  
 Power : 25/25  
 RB/VB : 1 MHz / 1 KHz

	Read	Limit	Over	Apos	Tpos				
Freq	Level	Level	Factor	Line	Limit	Remark			
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm			
1 av	5150.00	42.22	32.17	10.05	54.00	-11.78	108	116	Average
2	5150.00	52.68	42.63	10.05	74.00	-21.32	108	116	Peak
3	5200.00	98.59	88.43	10.16	-----	-----	108	116	Average
4	5200.00	105.30	95.14	10.16	-----	-----	108	116	Peak
5	5350.00	42.11	31.88	10.23	54.00	-11.89	108	116	Average
6	5350.00	53.33	43.10	10.23	74.00	-20.67	108	116	Peak
7 pp	10400.00	60.33	44.15	16.18	68.20	-7.87	200	6	Peak

## Remarks:

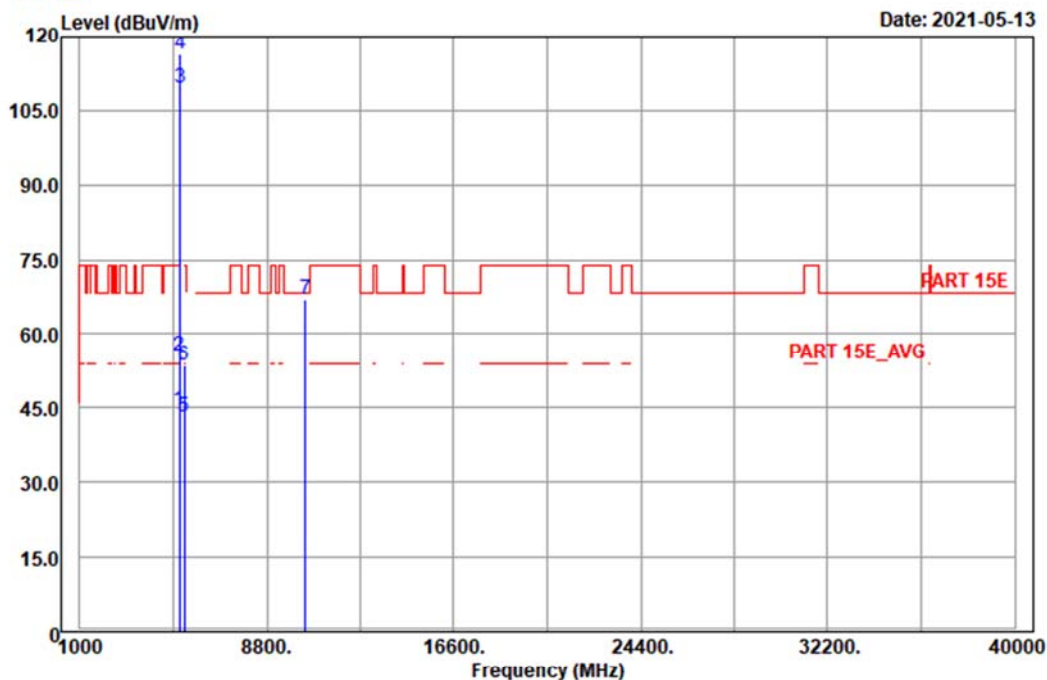
1. Level(dBuV/m) = Read Level(dBuV) + Factor(dB/m)
2. Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Over limit = Level – Limit value
5. The emission levels of other frequencies were very low against the limit.



A D T

Data: 20

Date: 2021-05-13



Site : 966 chamber 1  
 Condition: PART 15E 3m Vertical  
 Remark : 11A\_TX\_CH40  
 Tested by: Charles Hsiao  
 Rate : 6M  
 Power : 25/25  
 RB/VB : 1 MHz / 1 KHz

	Read	Limit	Over	APos	TPos	Remark			
Freq	Level	Level	Factor	Line	Limit				
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB				
1 av	5150.00	44.45	34.40	10.05	54.00	-9.55	181	0	Average
2	5150.00	55.53	45.48	10.05	74.00	-18.47	181	0	Peak
3	5200.00	109.58	99.42	10.16	-----	-----	181	0	Average
4	5200.00	116.33	106.17	10.16	-----	-----	181	0	Peak
5	5350.00	43.07	32.84	10.23	54.00	-10.93	181	0	Average
6	5350.00	53.64	43.41	10.23	74.00	-20.36	181	0	Peak
7 pp	10400.00	67.02	50.84	16.18	68.20	-1.18	201	285	Peak

Remarks:

1. Level(dBuV/m) = Read Level(dBuV) + Factor(dB/m)
2. Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Over limit = Level – Limit value
5. The emission levels of other frequencies were very low against the limit.

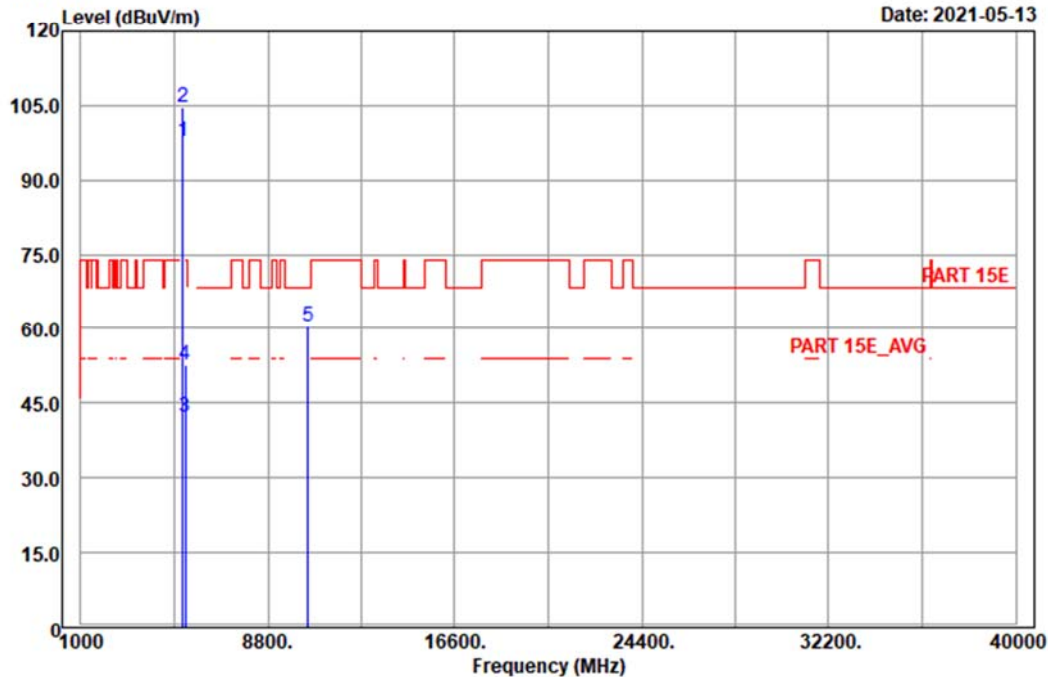


## Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 13

Date: 2021-05-13



Site : 966 chamber 1  
 Condition: PART 15E 3m Horizontal  
 Remark : 11A\_TX\_CH48  
 Tested by: Charles Hsiao  
 Rate : 6M  
 Power : 25/25  
 RB/VB : 1 MHz / 1 KHz

	Freq	Level	Read Level	Factor	Limit	Over Limit	APos	TPos	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg	
1	5240.00	97.65	87.51	10.14	-----	-----	108	116	Average
2	5240.00	104.47	94.33	10.14	-----	-----	108	116	Peak
3 av	5350.00	42.14	31.91	10.23	54.00	-11.86	108	116	Average
4	5350.00	52.56	42.33	10.23	74.00	-21.44	108	116	Peak
5 pp	10480.00	60.46	44.56	15.90	68.20	-7.74	200	6	Peak

## Remarks:

- Level(dBuV/m) = Read Level(dBuV) + Factor(dB/m)
- Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
- The other emission levels were very low against the limit.
- Over limit = Level – Limit value
- The emission levels of other frequencies were very low against the limit.

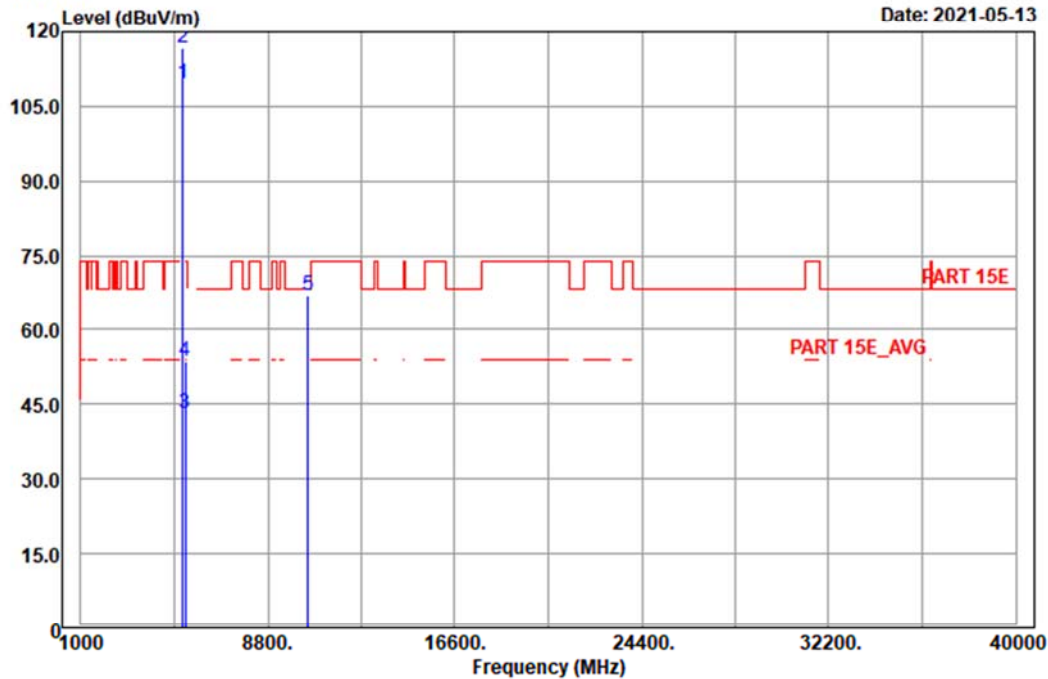




A D T

Data: 14

Date: 2021-05-13



Site : 966 chamber 1  
 Condition: PART 15E 3m Vertical  
 Remark : 11A\_TX\_CH48  
 Tested by: Charles Hsiao  
 Rate : 6M  
 Power : 25/25  
 RB/VB : 1 MHz / 1 KHz

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg	
1	5240.00	109.57	99.43	10.14	-----	-----	181	0	Average
2	5240.00	116.64	106.50	10.14	-----	-----	181	0	Peak
3 av	5350.00	43.16	32.93	10.23	54.00	-10.84	181	0	Average
4	5350.00	53.47	43.24	10.23	74.00	-20.53	181	0	Peak
5 pp	10480.00	67.09	51.19	15.90	68.20	-1.11	201	285	Peak

## Remarks:

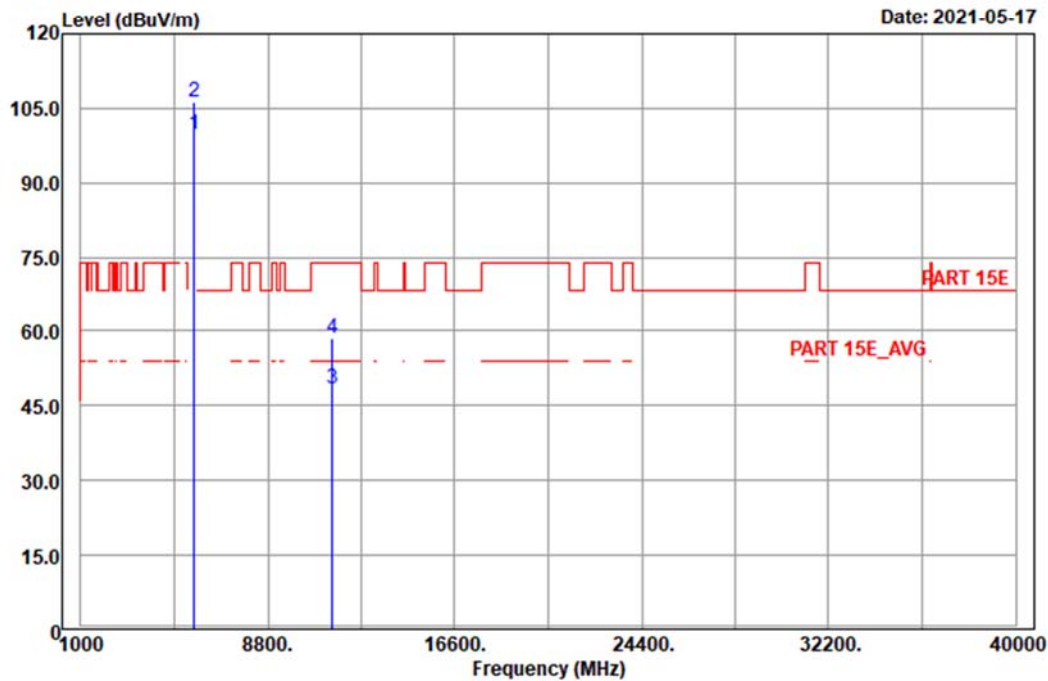
1. Level(dBuV/m) = Read Level(dBuV) + Factor(dB/m)
2. Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Over limit = Level – Limit value
5. The emission levels of other frequencies were very low against the limit.



## Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 8



Site : 966 chamber 1  
 Condition: PART 15E 3m Horizontal  
 Remark : 11A\_TX\_CH149  
 Tested by: Karl Lee  
 Rate : 6M  
 Power : 21.5/21.5  
 RB/VB : 1 MHz / 1 KHz

	Freq	Level	Read Level	Factor	Limit	Over	Apos	Tpos	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg	
1	5745.00	99.88	89.00	10.88	-----	-----	100	108	Average
2	5745.00	106.30	95.42	10.88	-----	-----	100	108	Peak
3 pp	11490.00	48.35	31.88	16.47	54.00	-5.65	196	223	Average
4 pk	11490.00	58.60	42.13	16.47	74.00	-15.40	196	223	Peak

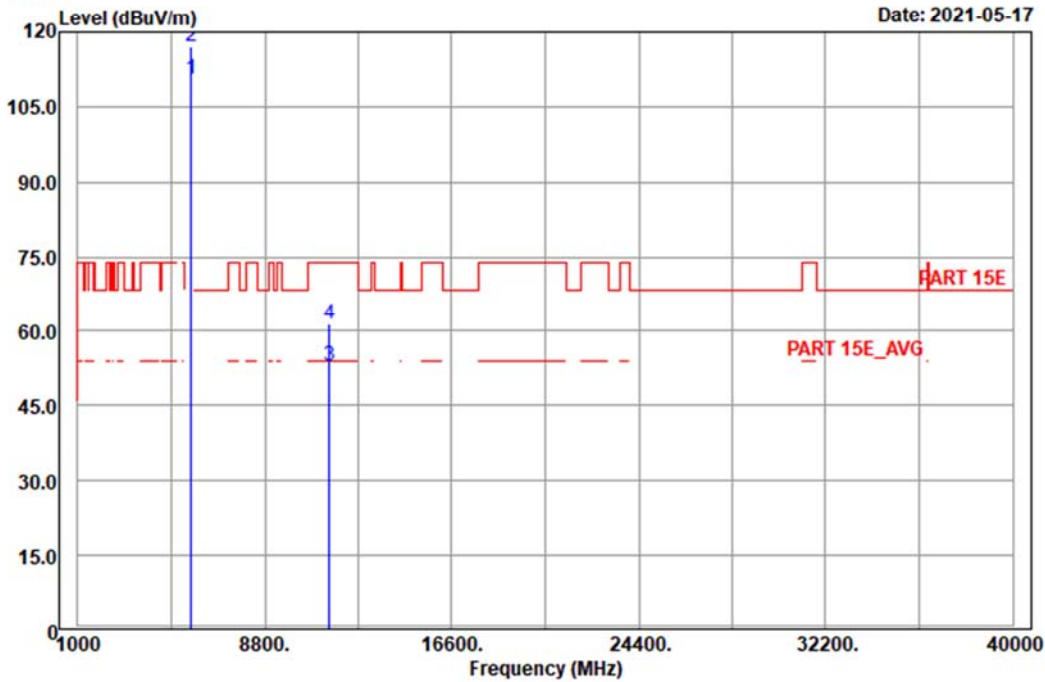
## Remarks:

1. Level(dBuV/m) = Read Level(dBuV) + Factor(dB/m)
2. Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Over limit = Level – Limit value
5. The emission levels of other frequencies were very low against the limit.



A D T

Data: 9



Site : 966 chamber 1  
 Condition: PART 15E 3m Vertical  
 Remark : 11A\_TX\_CH149  
 Tested by: Karl Lee  
 Rate : 6M  
 Power : 21.5/21.5  
 RB/VB : 1 MHz / 1 KHz

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg	
1	5745.00	110.54	99.66	10.88	-----	-----	197	0	Average
2	5745.00	117.05	106.17	10.88	-----	-----	197	0	Peak
3 pp	11490.00	52.99	36.52	16.47	54.00	-1.01	216	299	Average
4 pk	11490.00	61.58	45.11	16.47	74.00	-12.42	216	299	Peak

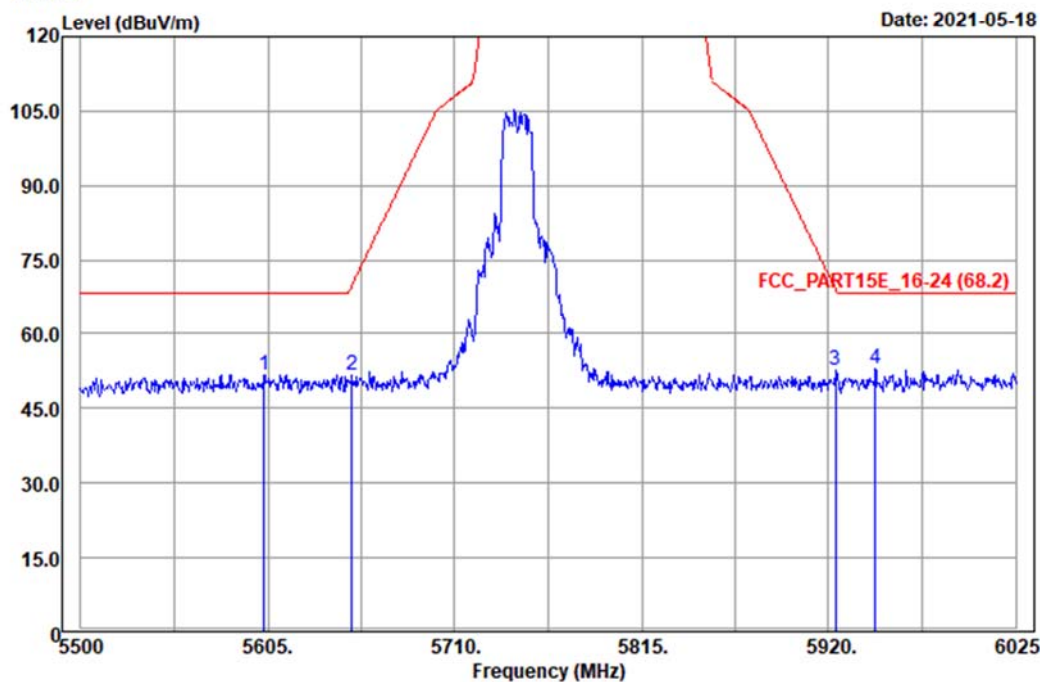
## Remarks:

1. Level(dBuV/m) = Read Level(dBuV) + Factor(dB/m)
2. Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Over limit = Level – Limit value
5. The emission levels of other frequencies were very low against the limit.



A D T

Data: 6



Site : 966 chamber 1  
 Condition: FCC\_PART15E\_16-24 (68.2) 3m Horizontal  
 Remark : 11A\_TX\_CH149  
 Tested by: Karl Lee  
 Rate : 6M  
 Power : 21.5/21.5  
 RB/VB : 1 MHz / 1 KHz

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg	
1	5602.90	51.82	41.07	10.75	68.20	-16.38	100	108	Peak
2	5652.25	51.72	40.85	10.87	69.86	-18.14	100	108	Peak
3	5923.68	52.80	41.69	11.11	69.18	-16.38	100	108	Peak
4 pp	5946.25	52.94	41.76	11.18	68.20	-15.26	100	108	Peak

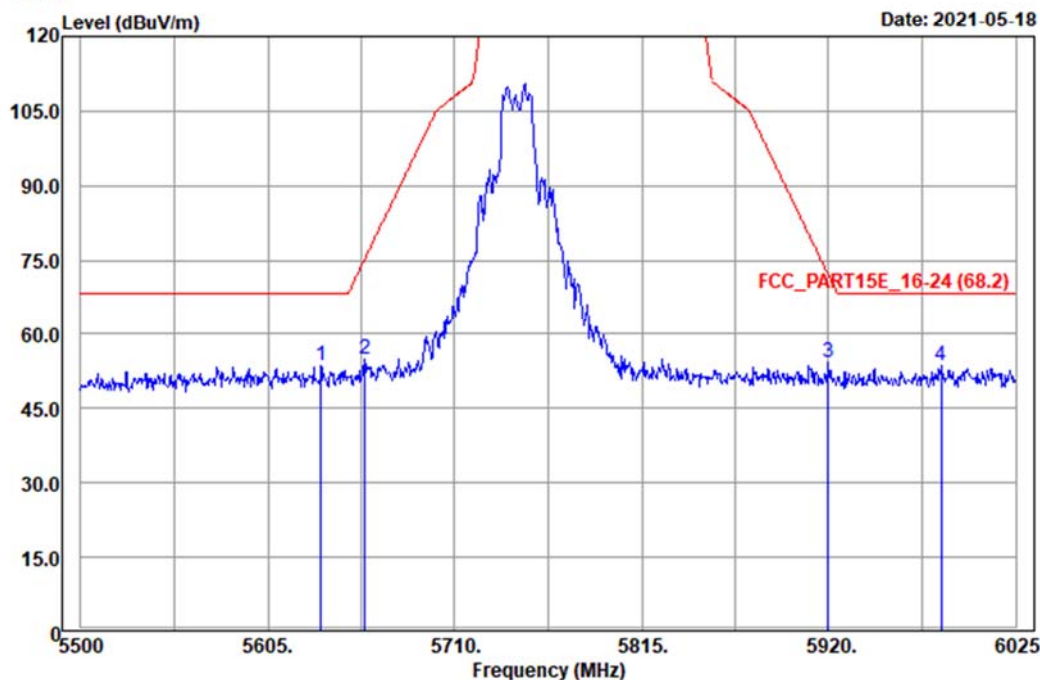
Remarks:

1. Level(dBuV/m) = Read Level(dBuV) + Factor(dB/m)
2. Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Over limit = Level – Limit value
5. The emission levels of other frequencies were very low against the limit.



A D T

Data: 7



Site : 966 chamber 1  
 Condition: FCC\_PART15E\_16-24 (68.2) 3m Vertical  
 Remark : 11A\_TX\_CH149  
 Tested by: Karl Lee  
 Rate : 6M  
 Power : 21.5/21.5  
 RB/VB : 1 MHz / 1 KHz

	Freq	Level	Read Level	Factor	Limit	Over Limit	APos	TPos	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg	
1	5634.93	53.53	42.70	10.83	68.20	-14.67	197	0	Peak
2	5659.60	54.84	43.97	10.87	75.30	-20.46	197	0	Peak
3	5920.00	54.16	43.07	11.09	71.90	-17.74	197	0	Peak
4 pp	5983.00	53.66	42.40	11.26	68.20	-14.54	197	0	Peak

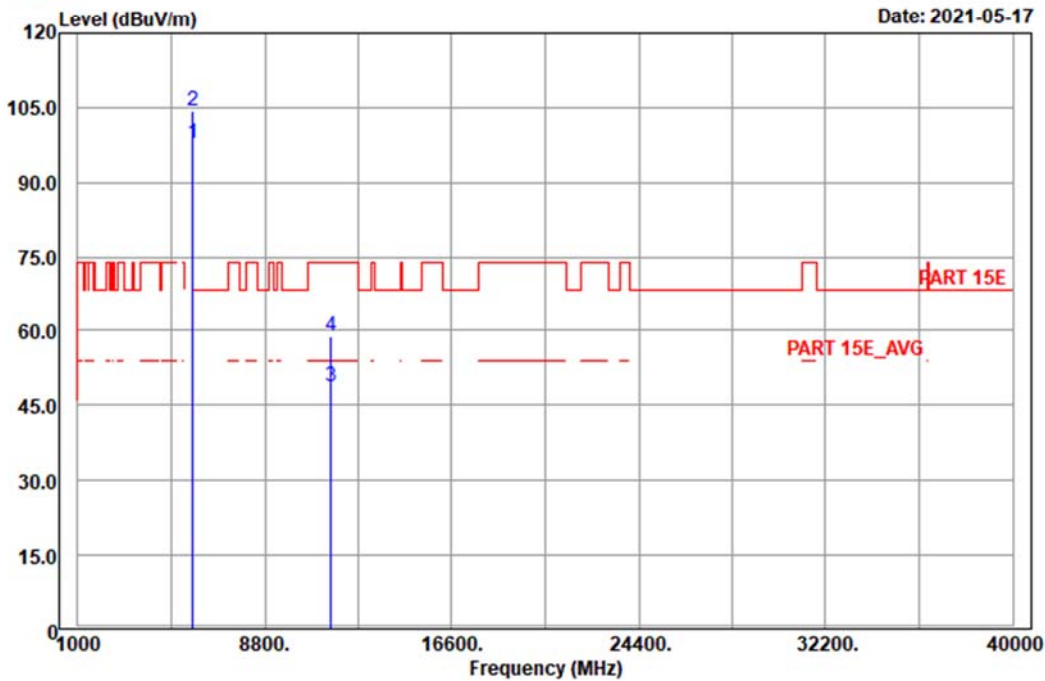
Remarks:

1. Level(dBuV/m) = Read Level(dBuV) + Factor(dB/m)
2. Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Over limit = Level – Limit value
5. The emission levels of other frequencies were very low against the limit.



A D T

Data: 8



Site : 966 chamber 1  
 Condition: PART 15E 3m Horizontal  
 Remark : 11A\_TX\_CH157  
 Tested by: Karl Lee  
 Rate : 6M  
 Power : 20/20  
 RB/VB : 1 MHz / 1 KHz

	Freq	Level	Read Level	Factor	Limit	Over	APos	TPos	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg	
1	5785.00	97.68	86.87	10.81	-----	-----	100	108	Average
2	5785.00	104.36	93.55	10.81	-----	-----	100	108	Peak
3 pp	11570.00	48.64	32.15	16.49	54.00	-5.36	207	231	Average
4 pk	11570.00	58.89	42.40	16.49	74.00	-15.11	207	231	Peak

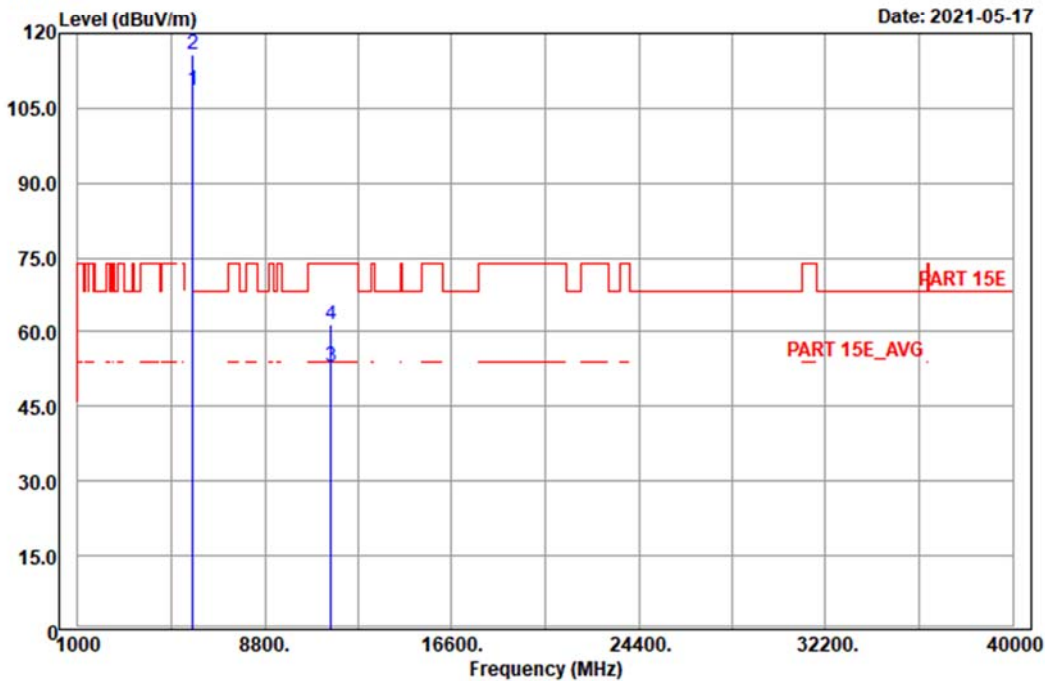
## Remarks:

1. Level(dBuV/m) = Read Level(dBuV) + Factor(dB/m)
2. Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Over limit = Level – Limit value
5. The emission levels of other frequencies were very low against the limit.



A D T

Data: 9



Site : 966 chamber 1  
 Condition: PART 15E 3m Vertical  
 Remark : 11A\_TX\_CH157  
 Tested by: Karl Lee  
 Rate : 6M  
 Power : 20/20  
 RB/VB : 1 MHz / 1 KHz

	Freq	Level	Read	Limit	Over	Apos	Tpos	Remark
	MHz	dBuV/m	Level	Line	Limit	cm	deg	
			dBuV	dB/m	dBuV/m	dB		
1	5785.00	108.58	97.77	10.81	-----	-----	197	0 Average
2	5785.00	115.59	104.78	10.81	-----	-----	197	0 Peak
3 pp	11570.00	52.91	36.42	16.49	54.00	-1.09	108	249 Average
4 pk	11570.00	61.54	45.05	16.49	74.00	-12.46	108	249 Peak

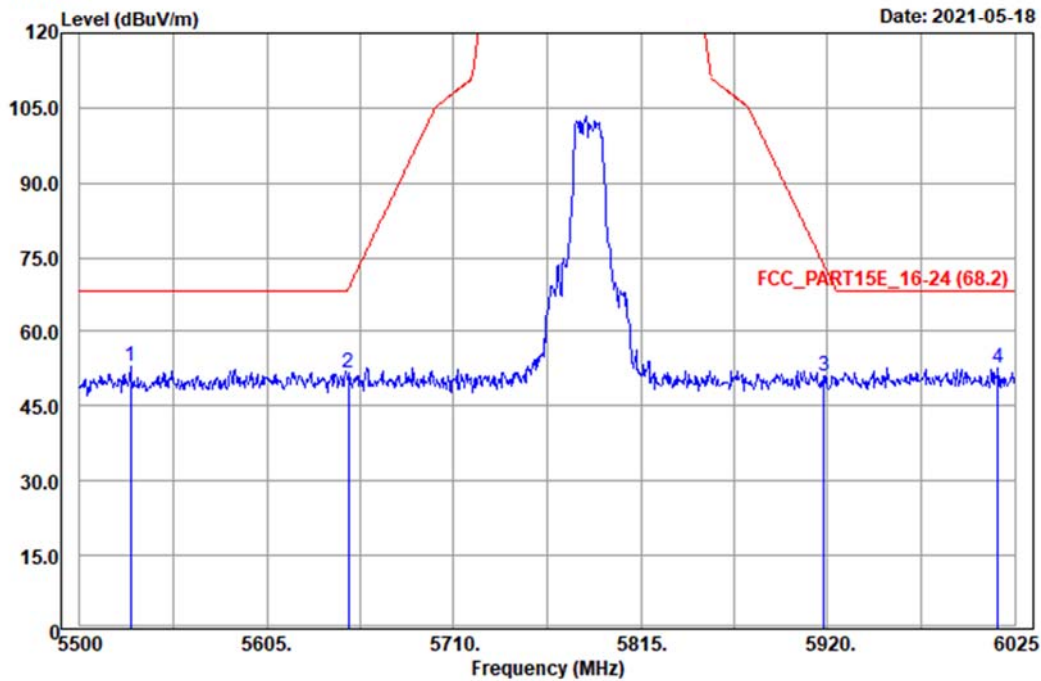
## Remarks:

1. Level(dBuV/m) = Read Level(dBuV) + Factor(dB/m)
2. Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Over limit = Level – Limit value
5. The emission levels of other frequencies were very low against the limit.



A D T

Data: 6



Site : 966 chamber 1  
 Condition: FCC\_PART15E\_16-24 (68.2) 3m Horizontal  
 Remark : 11A\_TX\_CH157  
 Tested by: Karl Lee  
 Rate : 6M  
 Power : 20/20  
 RB/VB : 1 MHz / 1 KHz

	Freq	Level	Read Level	Factor	Limit	Over	APos	TPos	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg	
1	pp 5528.35	52.87	42.24	10.63	68.20	-15.33	100	108	Peak
2	5650.68	51.57	40.70	10.87	68.70	-17.13	100	108	Peak
3	5917.90	51.15	40.06	11.09	73.45	-22.30	100	108	Peak
4	6015.55	52.58	41.23	11.35	68.20	-15.62	100	108	Peak

## Remarks:

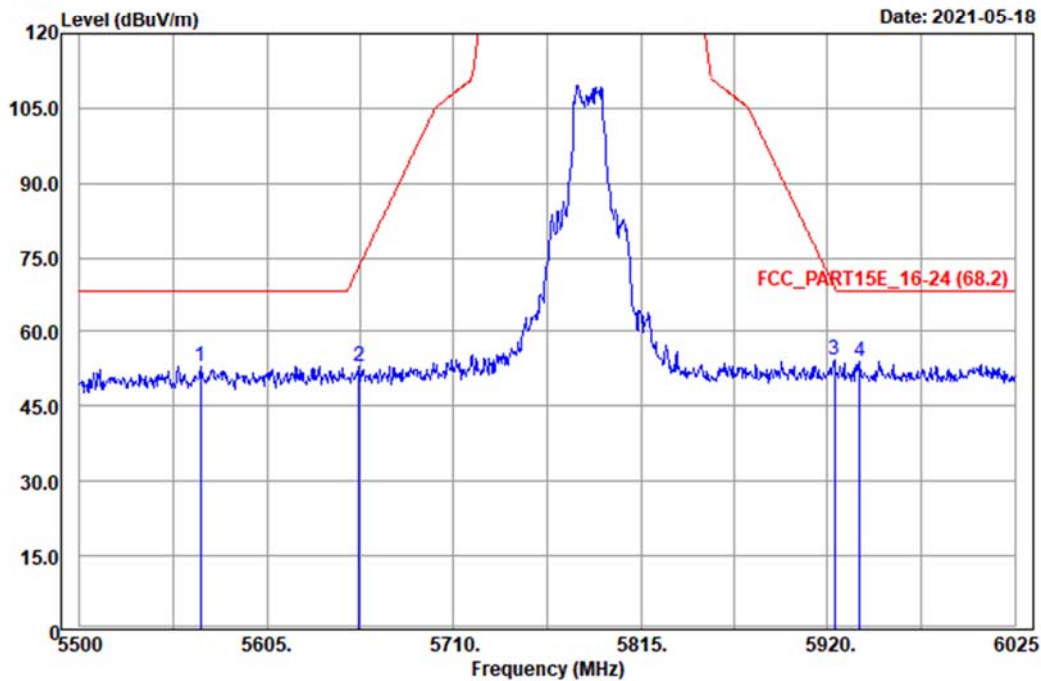
1. Level(dBuV/m) = Read Level(dBuV) + Factor(dB/m)
2. Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Over limit = Level – Limit value
5. The emission levels of other frequencies were very low against the limit.





A D T

Data: 7



Site : 966 chamber 1  
 Condition: FCC\_PART15E\_16-24 (68.2) 3m Vertical  
 Remark : 11A\_TX\_CH157  
 Tested by: Karl Lee  
 Rate : 6M  
 Power : 20/20  
 RB/VB : 1 MHz / 1 KHz

	Freq	Level	Read Level	Factor	Limit	Over	Apos	TPos	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg	
1	5567.73	53.09	42.39	10.70	68.20	-15.11	197	0	Peak
2	5656.98	52.84	41.97	10.87	73.36	-20.52	197	0	Peak
3	5923.68	54.24	43.13	11.11	69.18	-14.94	197	0	Peak
4 pp	5937.85	53.91	42.75	11.16	68.20	-14.29	197	0	Peak

## Remarks:

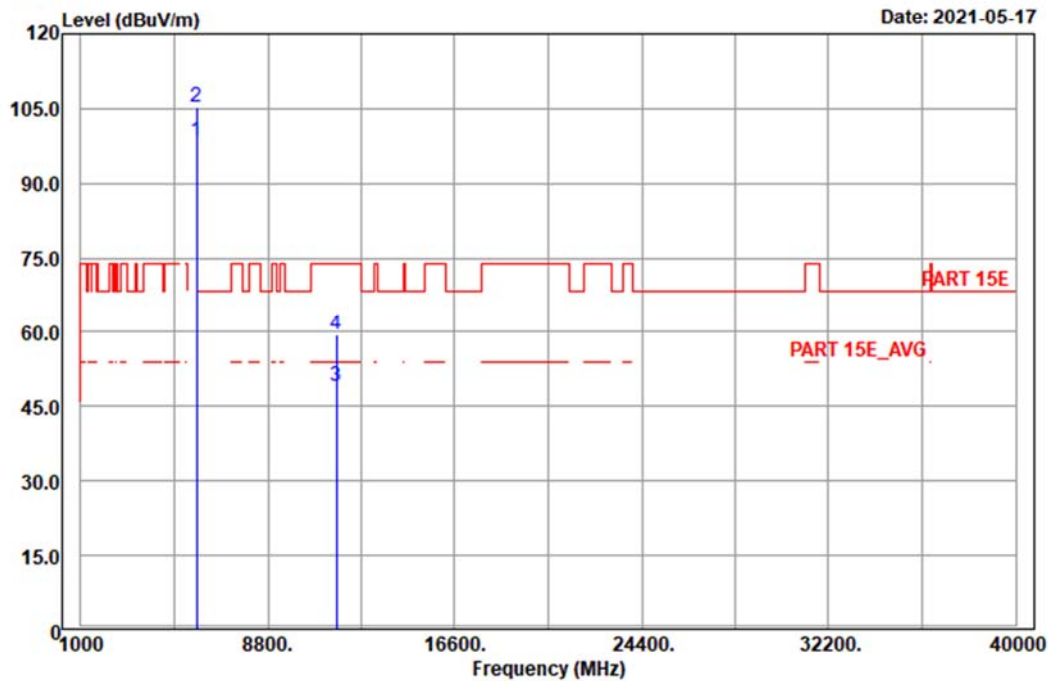
1. Level(dBuV/m) = Read Level(dBuV) + Factor(dB/m)
2. Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Over limit = Level – Limit value
5. The emission levels of other frequencies were very low against the limit.



## Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 8



Site : 966 chamber 1  
 Condition: PART 15E 3m Horizontal  
 Remark : 11A\_TX\_CH165  
 Tested by: Karl Lee  
 Rate : 6M  
 Power : 21/21  
 RB/VB : 1 MHz / 1 KHz

	Freq	Level	Read	Limit	Over	Apos	Tpos	Remark
	MHz	dBuV/m	Level	Line	Limit	cm	deg	
			dBuV	dB/m	dBuV/m	dB		
1	5825.00	98.54	87.66	10.88	-----	-----	100	108 Average
2	5825.00	105.43	94.55	10.88	-----	-----	100	108 Peak
3 pp	11650.00	49.08	32.30	16.78	54.00	-4.92	183	227 Average
4 pk	11650.00	59.36	42.58	16.78	74.00	-14.64	183	227 Peak

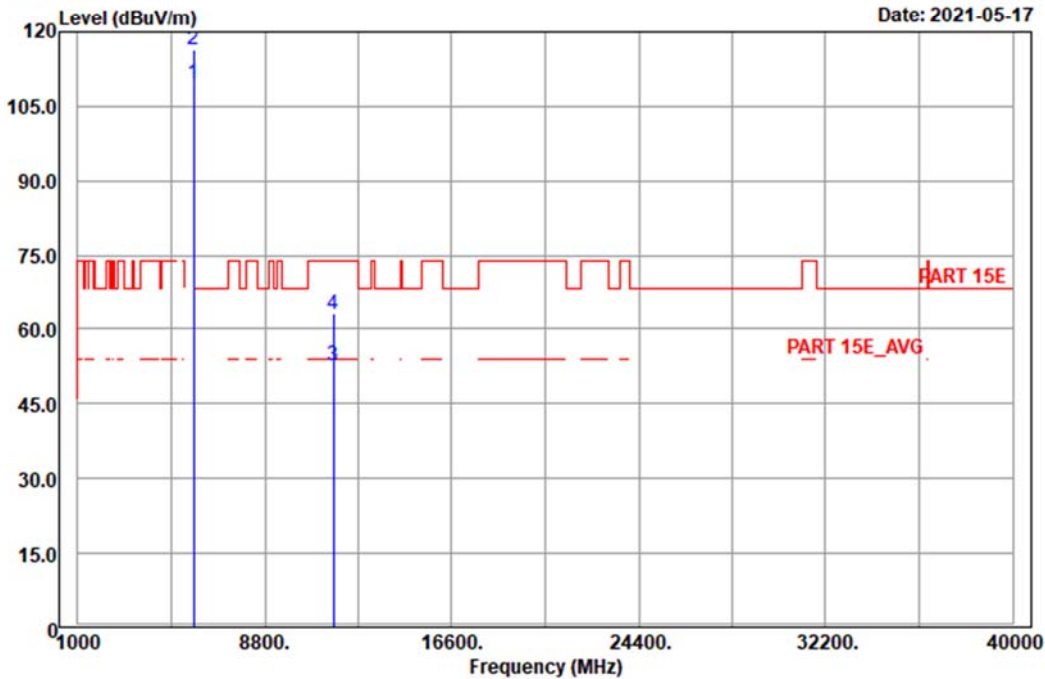
## Remarks:

1. Level(dBuV/m) = Read Level(dBuV) + Factor(dB/m)
2. Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Over limit = Level – Limit value
5. The emission levels of other frequencies were very low against the limit.



A D T

Data: 9



Site : 966 chamber 1  
 Condition: PART 15E 3m Vertical  
 Remark : 11A\_TX\_CH165  
 Tested by: Karl Lee  
 Rate : 6M  
 Power : 21/21  
 RB/VB : 1 MHz / 1 KHz

	Freq	Level	Read Level	Factor	Limit	Over	Apos	TPos	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg	
1	5825.00	109.68	98.80	10.88	-----	-----	197	0	Average
2	5825.00	116.50	105.62	10.88	-----	-----	197	0	Peak
3 pp	11650.00	52.80	36.02	16.78	54.00	-1.20	106	259	Average
4 pk	11650.00	63.26	46.48	16.78	74.00	-10.74	106	259	Peak

## Remarks:

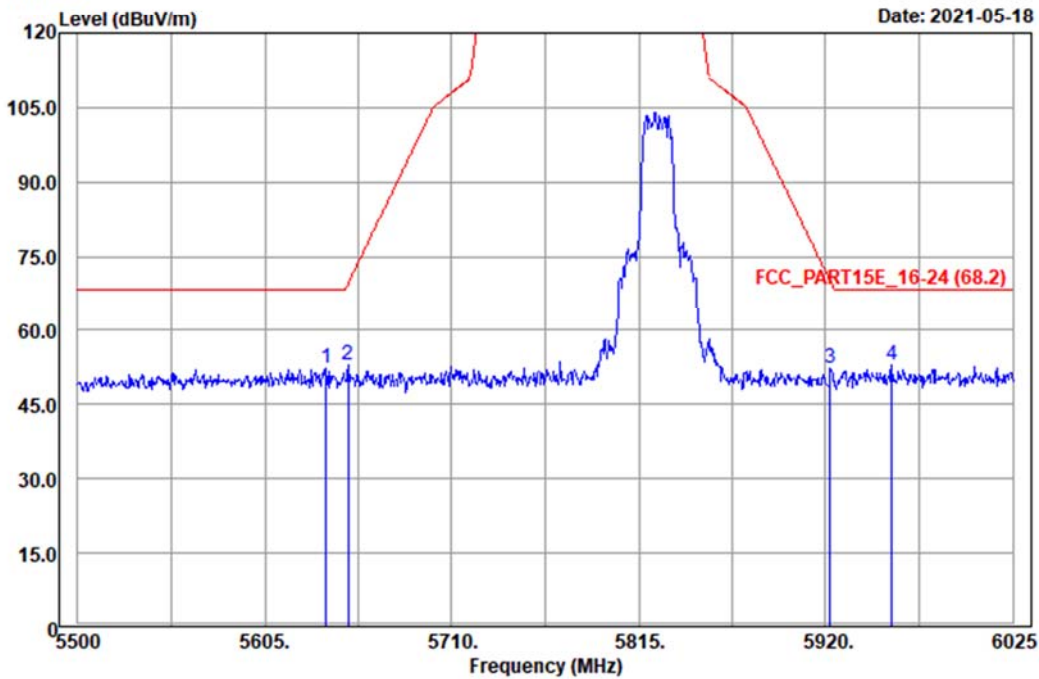
1. Level(dBuV/m) = Read Level(dBuV) + Factor(dB/m)
2. Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Over limit = Level – Limit value
5. The emission levels of other frequencies were very low against the limit.



## Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6



Site : 966 chamber 1  
 Condition: FCC\_PART15E\_16-24 (68.2) 3m Horizontal  
 Remark : 11A\_TX\_CH165  
 Tested by: Karl Lee  
 Rate : 6M  
 Power : 21/21  
 RB/VB : 1 MHz / 1 KHz

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg	
1	5639.65	52.19	41.36	10.83	68.20	-16.01	100	108	Peak
2	5651.73	53.04	42.17	10.87	69.48	-16.44	100	108	Peak
3	5922.63	52.21	41.10	11.11	69.96	-17.75	100	108	Peak
4 pp	5957.28	53.02	41.81	11.21	68.20	-15.18	100	108	Peak

## Remarks:

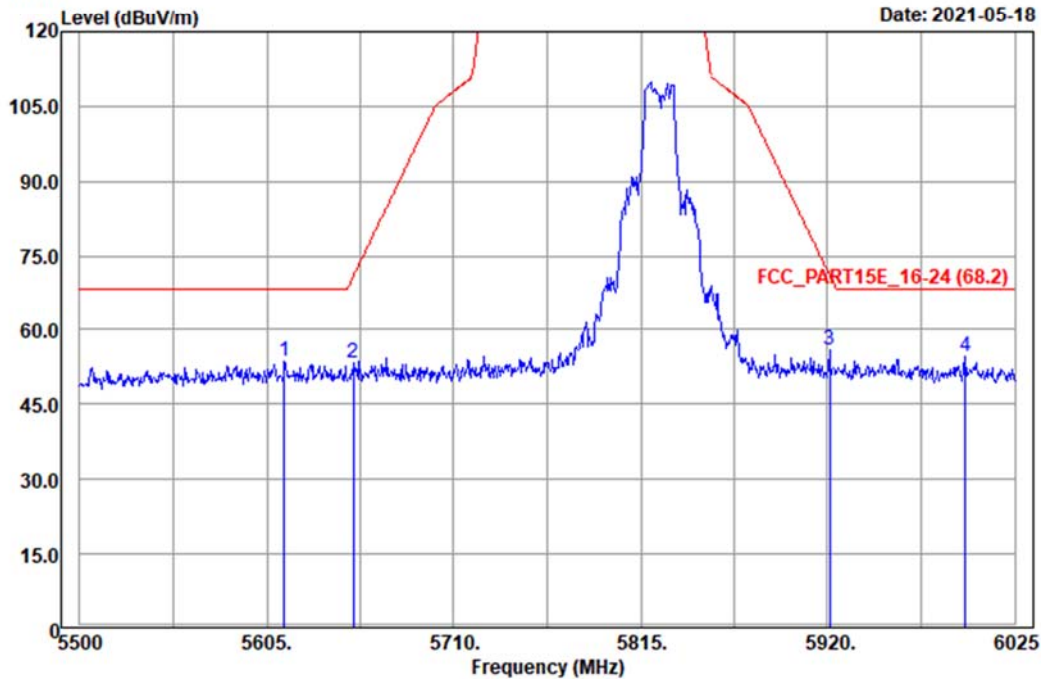
1. Level(dBuV/m) = Read Level(dBuV) + Factor(dB/m)
2. Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Over limit = Level – Limit value
5. The emission levels of other frequencies were very low against the limit.



## Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 7



Site : 966 chamber 1  
 Condition: FCC\_PART15E\_16-24 (68.2) 3m Vertical  
 Remark : 11A\_TX\_CH165  
 Tested by: Karl Lee  
 Rate : 6M  
 Power : 21/21  
 RB/VB : 1 MHz / 1 KHz

	Freq	Level	Read	Limit	Over	Apos	Tpos	Remark
	MHz	dBuV/m	Level	Line	Limit	cm	deg	
			dBuV	dB/m	dBuV/m	dB		
1	5614.98	53.56	42.79	10.77	68.20	-14.64	197	0 Peak
2	5653.83	53.39	42.52	10.87	71.03	-17.64	197	0 Peak
3	5921.05	55.98	44.89	11.09	71.12	-15.14	197	0 Peak
4 pp	5997.18	54.58	43.25	11.33	68.20	-13.62	197	0 Peak

## Remarks:

1. Level(dBuV/m) = Read Level(dBuV) + Factor(dB/m)
2. Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Over limit = Level – Limit value
5. The emission levels of other frequencies were very low against the limit.

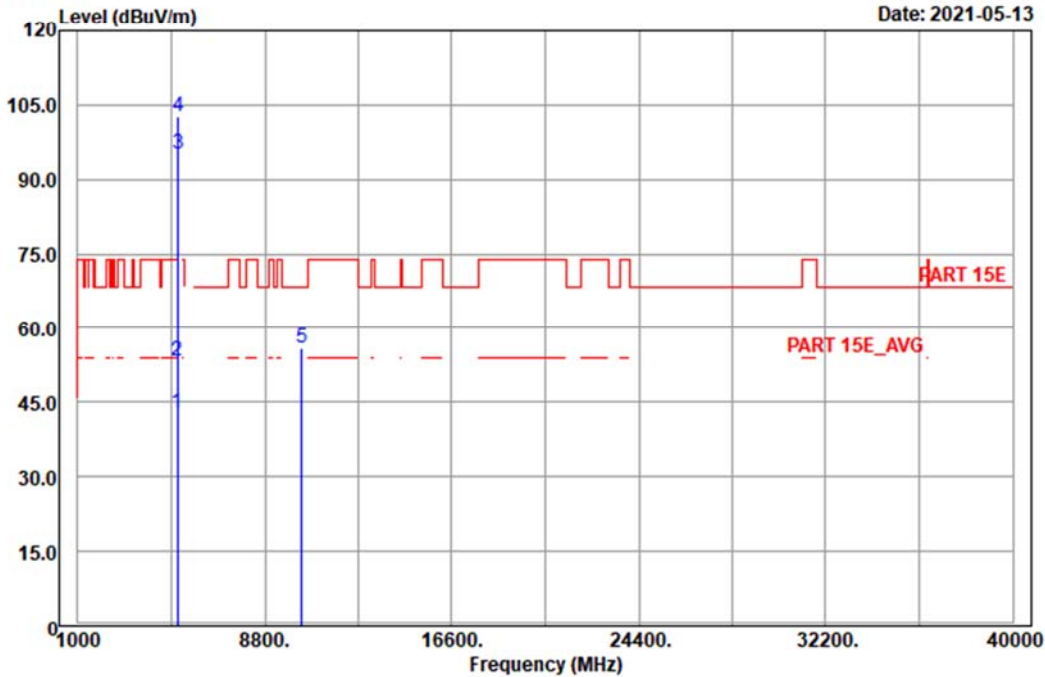
802.11ax (HE20)



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 13



Site : 966 chamber 1  
 Condition: PART 15E 3m Horizontal  
 Remark : 11AX\_HE20\_TX\_CH36  
 Tested by: Charles Hsiao  
 Rate : MCS0  
 Power : 18.5/18.5  
 RB/VB : 1 MHz / 1 KHz

	Freq	Level	Read Level	Factor	Limit	Over Limit	APos	TPos	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg	
1 pp	5150.00	42.74	32.69	10.05	54.00	-11.26	108	116	Average
2	5150.00	53.24	43.19	10.05	74.00	-20.76	108	116	Peak
3	5180.00	95.25	85.13	10.12	-----	-----	108	116	Average
4	5180.00	102.68	92.56	10.12	-----	-----	108	116	Peak
5 pk	10360.00	56.02	40.00	16.02	68.20	-12.18	200	6	Peak

## Remarks:

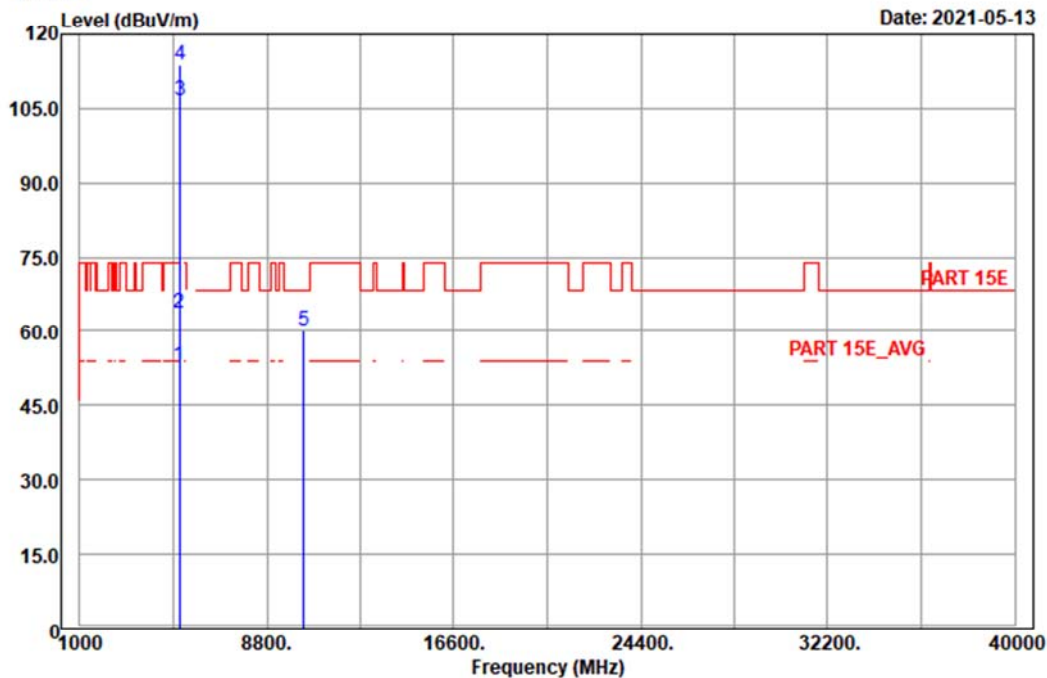
1. Level(dBuV/m) = Read Level(dBuV) + Factor(dB/m)
2. Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Over limit = Level – Limit value
5. The emission levels of other frequencies were very low against the limit.



A D T

Data: 14

Date: 2021-05-13



Site : 966 chamber 1  
 Condition: PART 15E 3m Vertical  
 Remark : 11AX\_HE20\_TX\_CH36  
 Tested by: Charles Hsiao  
 Rate : MCS0  
 Power : 18.5/18.5  
 RB/VB : 1 MHz / 1 KHz

	Read	Limit	Over	APos	TPos	Remark
Freq	Level	Level	Factor	Line	Limit	
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	
1 pp 5150.00	52.92	42.87	10.05	54.00	-1.08	181 18 Average
2 5150.00	63.90	53.85	10.05	74.00	-10.10	181 18 Peak
3 5180.00	106.65	96.53	10.12	-----	-----	181 0 Average
4 5180.00	113.71	103.59	10.12	-----	-----	181 0 Peak
5 pk 10360.00	60.26	44.24	16.02	68.20	-7.94	201 285 Peak

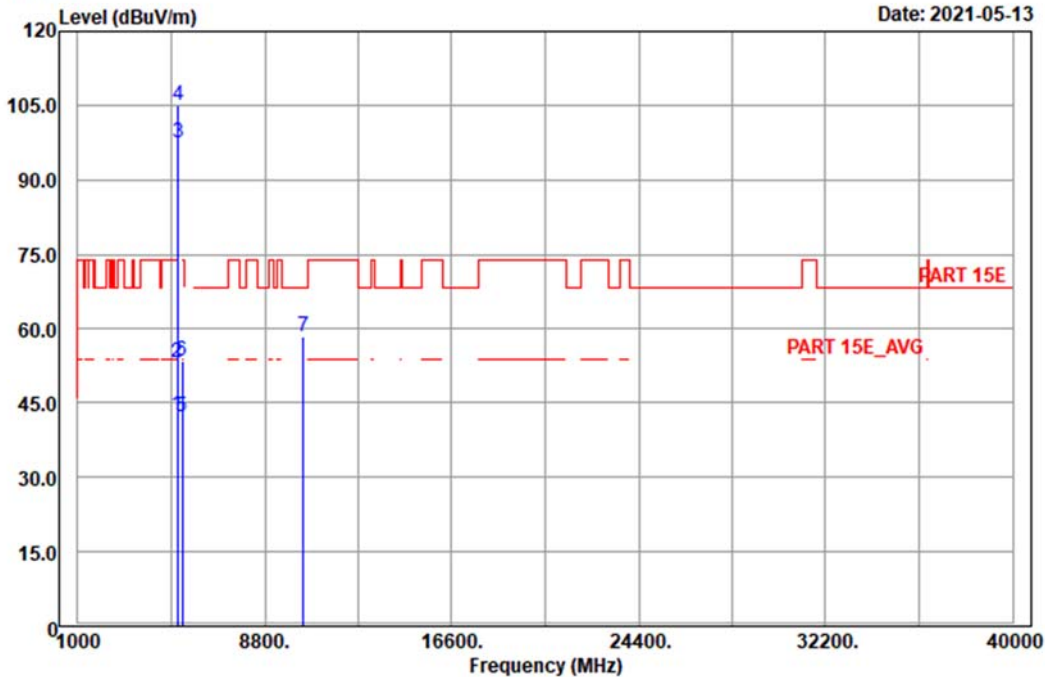
Remarks:

1. Level(dBuV/m) = Read Level(dBuV) + Factor(dB/m)
2. Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Over limit = Level – Limit value
5. The emission levels of other frequencies were very low against the limit.



A D T

Data: 17



Site : 966 chamber 1  
 Condition: PART 15E 3m Horizontal  
 Remark : 11AX\_HE20\_TX\_CH40  
 Tested by: Charles Hsiao  
 Rate : MCS0  
 Power : 25/25  
 RB/VB : 1 MHz / 1 KHz

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg	
1 av	5150.00	42.38	32.33	10.05	54.00	-11.62	108	116	Average
2	5150.00	53.22	43.17	10.05	74.00	-20.78	108	116	Peak
3	5200.00	97.49	87.33	10.16	-----	-----	108	116	Average
4	5200.00	104.97	94.81	10.16	-----	-----	108	116	Peak
5	5350.00	42.12	31.89	10.23	54.00	-11.88	108	116	Average
6	5350.00	53.55	43.32	10.23	74.00	-20.45	108	116	Peak
7 pp	10400.00	58.42	42.24	16.18	68.20	-9.78	200	6	Peak

## Remarks:

- Level(dBuV/m) = Read Level(dBuV) + Factor(dB/m)
- Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
- The other emission levels were very low against the limit.
- Over limit = Level – Limit value
- The emission levels of other frequencies were very low against the limit.

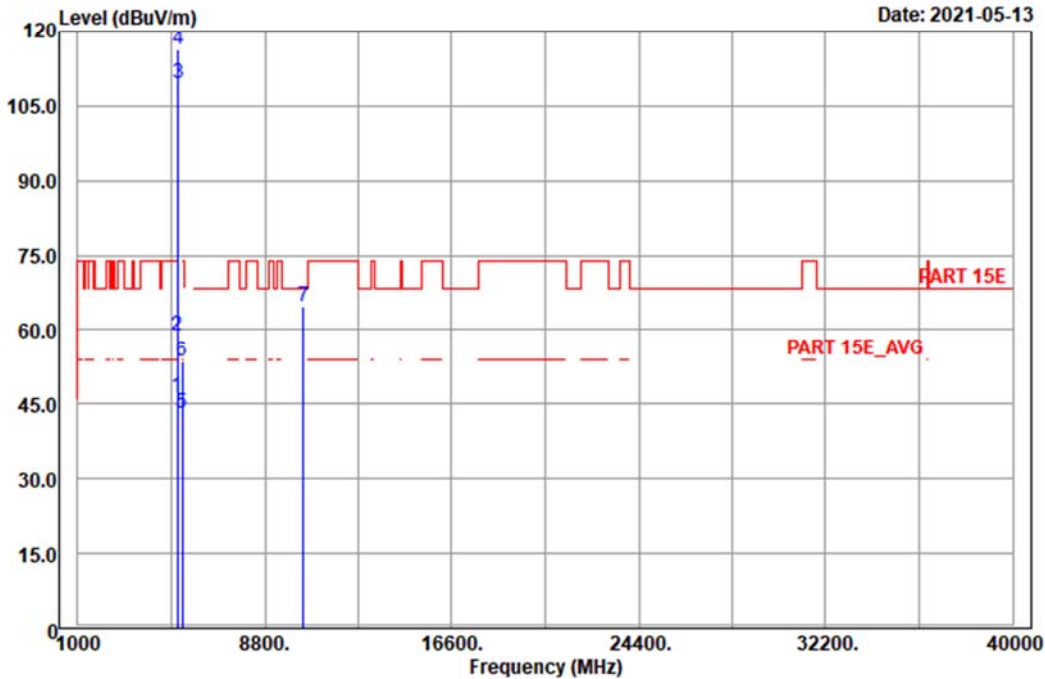




## Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 18



Site : 966 chamber 1  
 Condition: PART 15E 3m Vertical  
 Remark : 11AX\_HE20\_TX\_CH40  
 Tested by: Charles Hsiao  
 Rate : MCS0  
 Power : 25/25  
 RB/VB : 1 MHz / 1 KHz

	Freq	Level	Read Level	Factor	Limit	Over Limit	APos	TPos	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg	
1 av	5150.00	46.48	36.43	10.05	54.00	-7.52	181	0	Average
2	5150.00	58.86	48.81	10.05	74.00	-15.14	181	0	Peak
3	5200.00	109.50	99.34	10.16	-----	-----	181	0	Average
4	5200.00	116.55	106.39	10.16	-----	-----	181	0	Peak
5	5350.00	43.18	32.95	10.23	54.00	-10.82	181	0	Average
6	5350.00	53.55	43.32	10.23	74.00	-20.45	181	0	Peak
7 pp	10400.00	64.69	48.51	16.18	68.20	-3.51	201	285	Peak

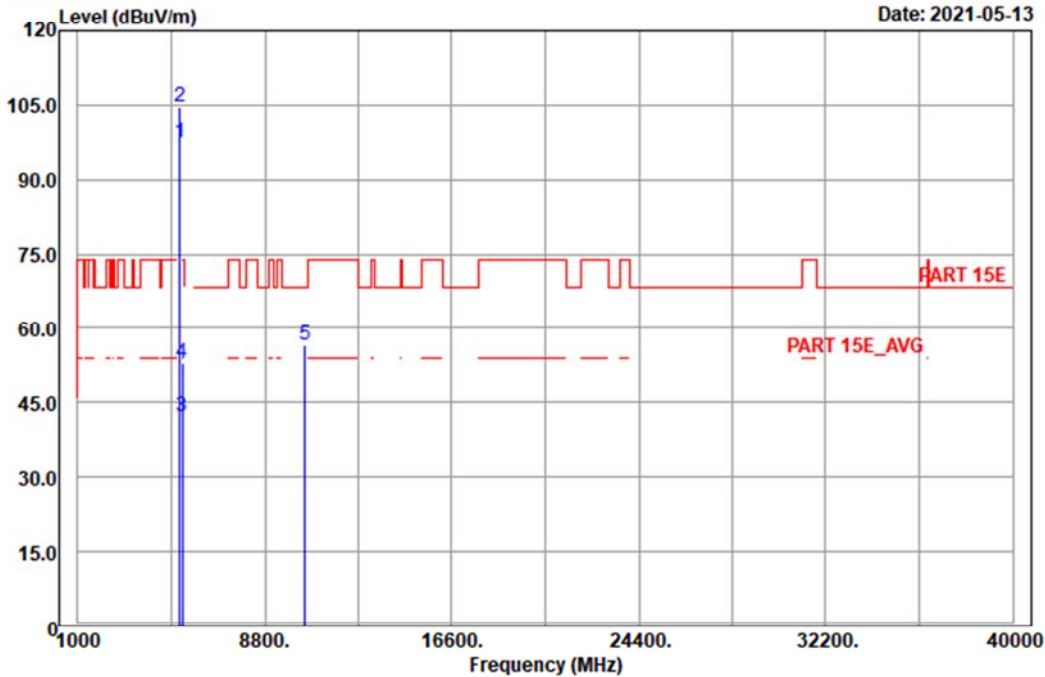
## Remarks:

1. Level(dBuV/m) = Read Level(dBuV) + Factor(dB/m)
2. Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Over limit = Level – Limit value
5. The emission levels of other frequencies were very low against the limit.



A D T

Data: 13



Site : 966 chamber 1  
 Condition: PART 15E 3m Horizontal  
 Remark : 11AX\_HE20\_TX\_CH48  
 Tested by: Charles Hsiao  
 Rate : MCS0  
 Power : 25/25  
 RB/VB : 1 MHz / 1 KHz

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Apos	TPos	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg	
1	5240.00	97.57	87.43	10.14	-----	-----	108	116	Average
2	5240.00	104.66	94.52	10.14	-----	-----	108	116	Peak
3 av	5350.00	42.19	31.96	10.23	54.00	-11.81	108	116	Average
4	5350.00	53.12	42.89	10.23	74.00	-20.88	108	116	Peak
5 pp	10480.00	56.69	40.79	15.90	68.20	-11.51	200	50	Peak

## Remarks:

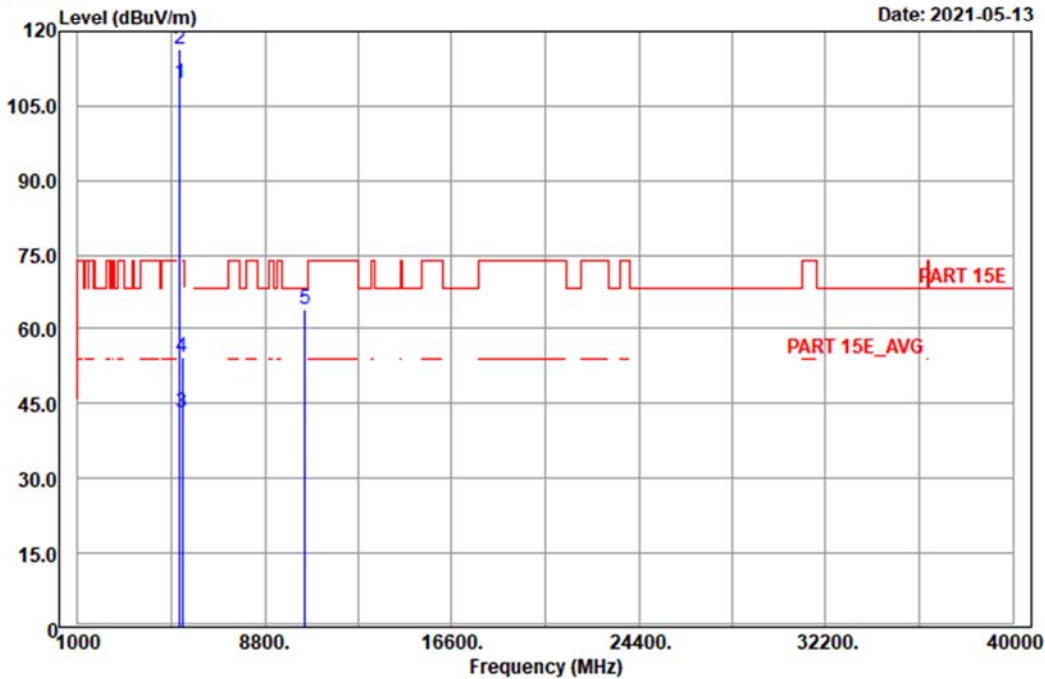
1. Level(dBuV/m) = Read Level(dBuV) + Factor(dB/m)
2. Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Over limit = Level – Limit value
5. The emission levels of other frequencies were very low against the limit.



## Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 14



Site : 966 chamber 1  
 Condition: PART 15E 3m Vertical  
 Remark : 11AX\_HE20\_TX\_CH48  
 Tested by: Charles Hsiao  
 Rate : MCS0  
 Power : 25/25  
 RB/VB : 1 MHz / 1 KHz

	Freq	Level	Read Level	Limit	Over	Apos	TPos	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg
1	5240.00	109.54	99.40	10.14	-----	-----	181	0 Average
2	5240.00	116.34	106.20	10.14	-----	-----	181	0 Peak
3 av	5350.00	43.24	33.01	10.23	54.00	-10.76	181	0 Average
4	5350.00	54.35	44.12	10.23	74.00	-19.65	181	0 Peak
5 pp	10480.00	64.14	48.24	15.90	68.20	-4.06	201	285 Peak

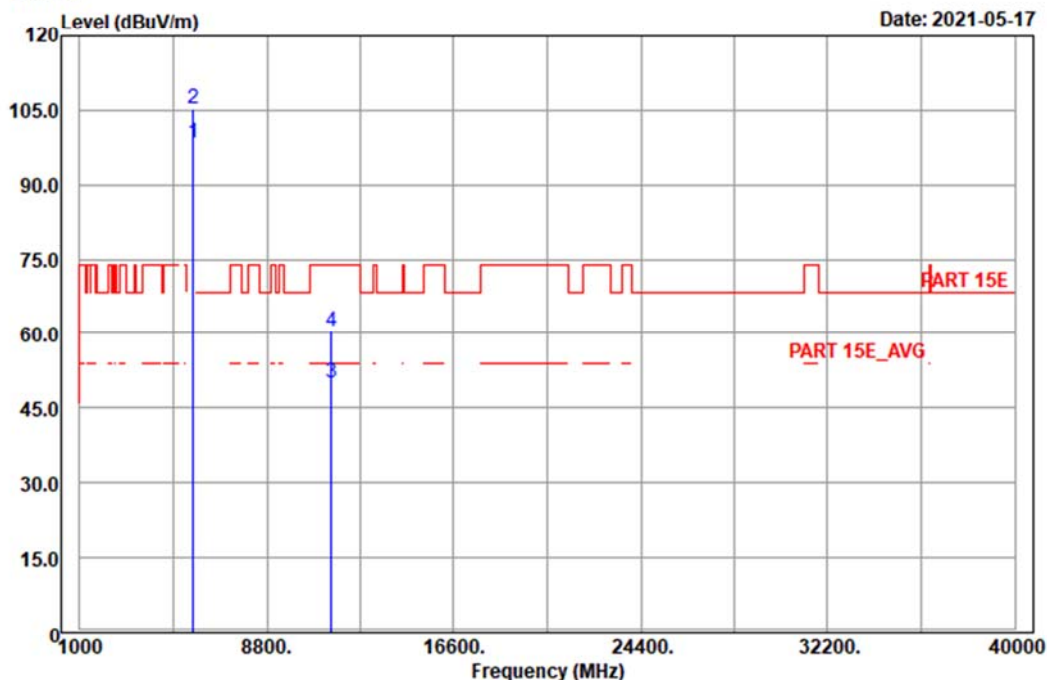
## Remarks:

1. Level(dBuV/m) = Read Level(dBuV) + Factor(dB/m)
2. Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Over limit = Level – Limit value
5. The emission levels of other frequencies were very low against the limit.



A D T

Data: 8



Site : 966 chamber 1  
 Condition: PART 15E 3m Horizontal  
 Remark : 11AX\_HE20\_TX\_CH149  
 Tested by: Karl Lee  
 Rate : MCS0  
 Power : 22/22  
 RB/VB : 1 MHz / 1 KHz

	Freq	Level	Read Level	Limit	Over	Apos	TPos	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg
1	5745.00	98.54	87.66	10.88	-----	-----	100	108 Average
2	5745.00	105.43	94.55	10.88	-----	-----	100	108 Peak
3 pp	11490.00	50.12	33.65	16.47	54.00	-3.88	185	209 Average
4 pk	11490.00	60.39	43.92	16.47	74.00	-13.61	185	209 Peak

Remarks:

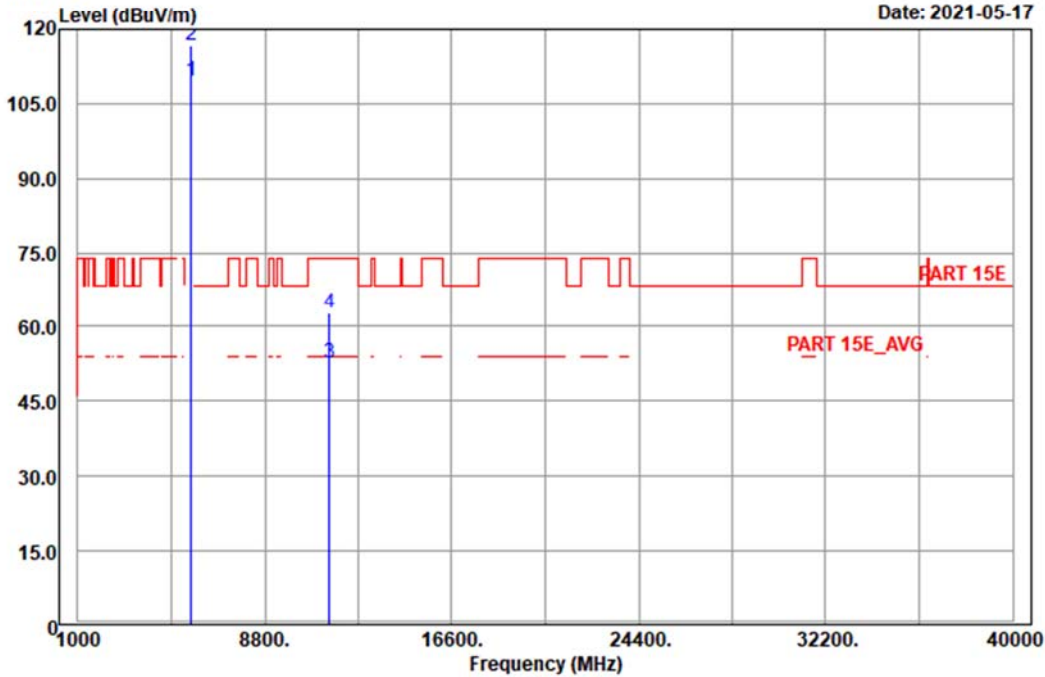
1. Level(dBuV/m) = Read Level(dBuV) + Factor(dB/m)
2. Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Over limit = Level – Limit value
5. The emission levels of other frequencies were very low against the limit.



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9



Site : 966 chamber 1  
 Condition: PART 15E 3m Vertical  
 Remark : 11AX\_HE20\_TX\_CH149  
 Tested by: Karl Lee  
 Rate : MCS0  
 Power : 22/22  
 RB/VB : 1 MHz / 1 KHz

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg	
1	5745.00	109.54	98.66	10.88	-----	-----	197	0	Average
2	5745.00	116.69	105.81	10.88	-----	-----	197	0	Peak
3 pp	11490.00	52.49	36.02	16.47	54.00	-1.51	234	251	Average
4 pk	11490.00	62.65	46.18	16.47	74.00	-11.35	234	251	Peak

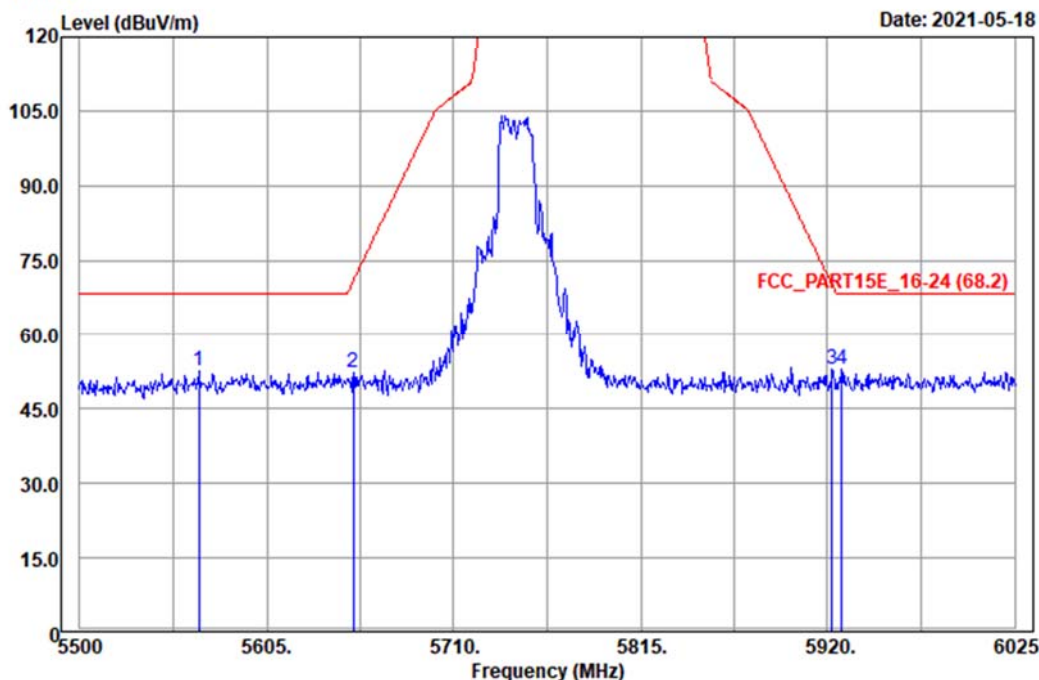
Remarks:

1. Level(dBuV/m) = Read Level(dBuV) + Factor(dB/m)
2. Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Over limit = Level – Limit value
5. The emission levels of other frequencies were very low against the limit.



A D T

Data: 6



Site : 966 chamber 1  
 Condition: FCC\_PART15E\_16-24 (68.2) 3m Horizontal  
 Remark : 11AX\_HE20\_TX\_CH149  
 Tested by: Karl Lee  
 Rate : MCS0  
 Power : 22/22  
 RB/VB : 1 MHz / 1 KHz

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg	
1	5566.68	52.72	42.02	10.70	68.20	-15.48	100	108	Peak
2	5653.83	52.27	41.40	10.87	71.03	-18.76	100	108	Peak
3	5922.63	52.88	41.77	11.11	69.96	-17.08	100	108	Peak
4 pp	5927.88	53.01	41.90	11.11	68.20	-15.19	100	108	Peak

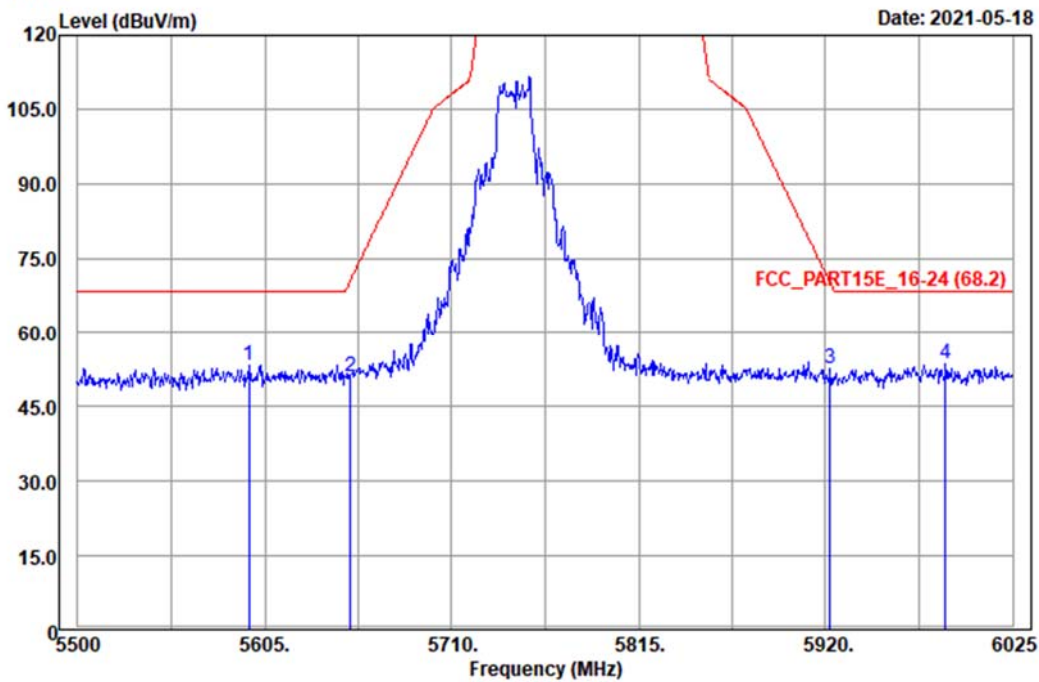
Remarks:

1. Level(dBuV/m) = Read Level(dBuV) + Factor(dB/m)
2. Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Over limit = Level – Limit value
5. The emission levels of other frequencies were very low against the limit.



A D T

Data: 7



Site : 966 chamber 1  
 Condition: FCC\_PART15E\_16-24 (68.2) 3m Vertical  
 Remark : 11AX\_HE20\_TX\_CH149  
 Tested by: Karl Lee  
 Rate : MCS0  
 Power : 22/22  
 RB/VB : 1 MHz / 1 KHz

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg	
1	5596.08	53.39	42.64	10.75	68.20	-14.81	197	0	Peak
2	5653.30	51.06	40.19	10.87	70.64	-19.58	197	0	Peak
3	5922.63	52.78	41.67	11.11	69.96	-17.18	197	0	Peak
4 pp	5987.20	53.49	42.18	11.31	68.20	-14.71	197	0	Peak

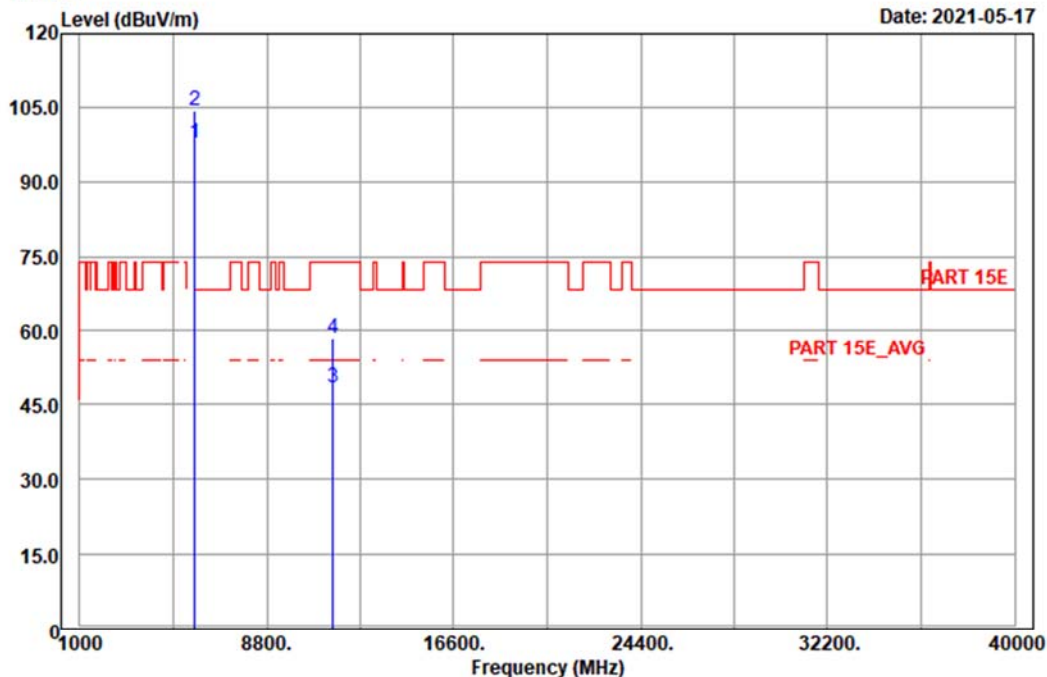
## Remarks:

1. Level(dBuV/m) = Read Level(dBuV) + Factor(dB/m)
2. Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Over limit = Level – Limit value
5. The emission levels of other frequencies were very low against the limit.



A D T

Data: 8



Site : 966 chamber 1  
 Condition: PART 15E 3m Horizontal  
 Remark : 11AX\_HE20\_TX\_CH157  
 Tested by: Karl Lee  
 Rate : MCS0  
 Power : 21.5/21.5  
 RB/VB : 1 MHz / 1 KHz

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg	
1	5785.00	97.67	86.86	10.81	-----	-----	100	108	Average
2	5785.00	104.45	93.64	10.81	-----	-----	100	108	Peak
3 pp	11570.00	48.33	31.84	16.49	54.00	-5.67	194	207	Average
4 pk	11570.00	58.49	42.00	16.49	74.00	-15.51	194	207	Peak

Remarks:

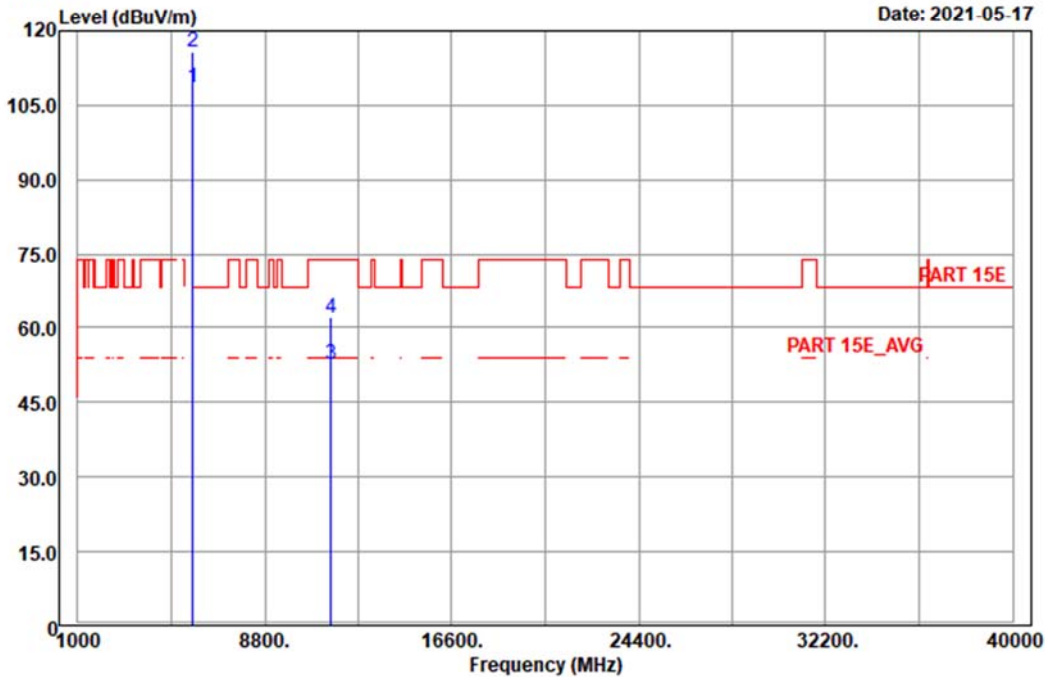
1. Level(dBuV/m) = Read Level(dBuV) + Factor(dB/m)
2. Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Over limit = Level – Limit value
5. The emission levels of other frequencies were very low against the limit.





A D T

Data: 9



Site : 966 chamber 1  
 Condition: PART 15E 3m Vertical  
 Remark : 11AX\_HE20\_TX\_CH157  
 Tested by: Karl Lee  
 Rate : MCS0  
 Power : 21.5/21.5  
 RB/VB : 1 MHz / 1 KHz

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg	
1	5785.00	108.41	97.60	10.81	-----	-----	197	0	Average
2	5785.00	115.82	105.01	10.81	-----	-----	197	0	Peak
3 pp	11570.00	52.77	36.28	16.49	54.00	-1.23	108	250	Average
4 pk	11570.00	62.25	45.76	16.49	74.00	-11.75	108	250	Peak

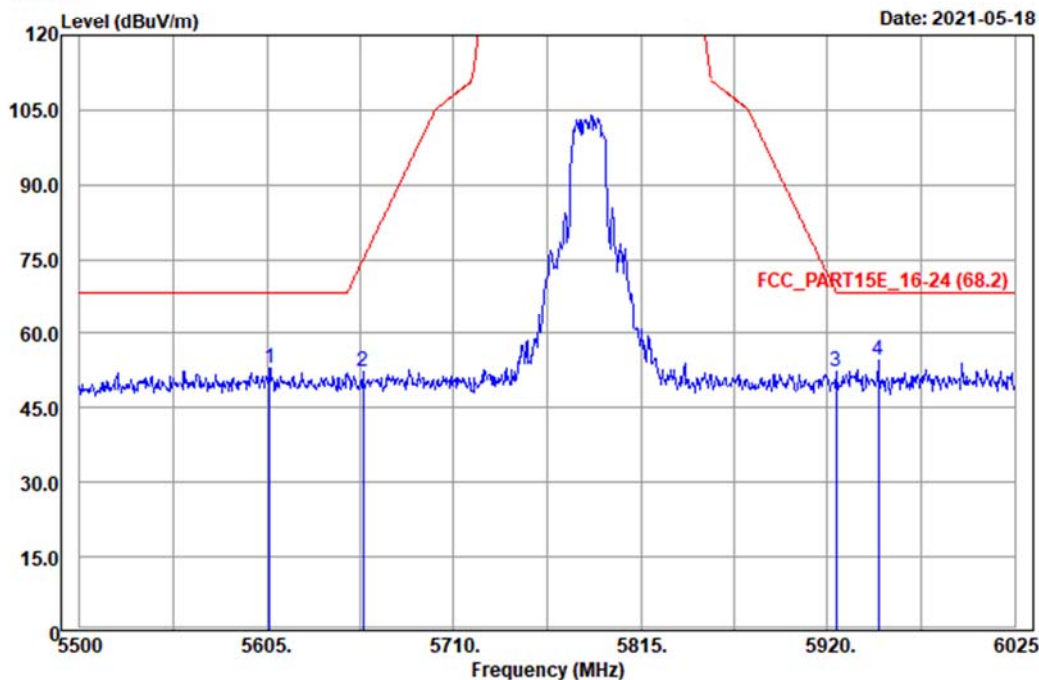
## Remarks:

1. Level(dBuV/m) = Read Level(dBuV) + Factor(dB/m)
2. Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Over limit = Level – Limit value
5. The emission levels of other frequencies were very low against the limit.



A D T

Data: 6



Site : 966 chamber 1  
 Condition: FCC\_PART15E\_16-24 (68.2) 3m Horizontal  
 Remark : 11AX\_HE20\_TX\_CH157  
 Tested by: Karl Lee  
 Rate : MCS0  
 Power : 21.5/21.5  
 RB/VB : 1 MHz / 1 KHz

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Apos	TPos	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg	
1	5606.58	53.07	42.32	10.75	68.20	-15.13	100	108	Peak
2	5659.08	52.19	41.32	10.87	74.92	-22.73	100	108	Peak
3	5924.73	52.30	41.19	11.11	68.40	-16.10	100	108	Peak
4 pp	5948.35	54.50	43.32	11.18	68.20	-13.70	100	108	Peak

Remarks:

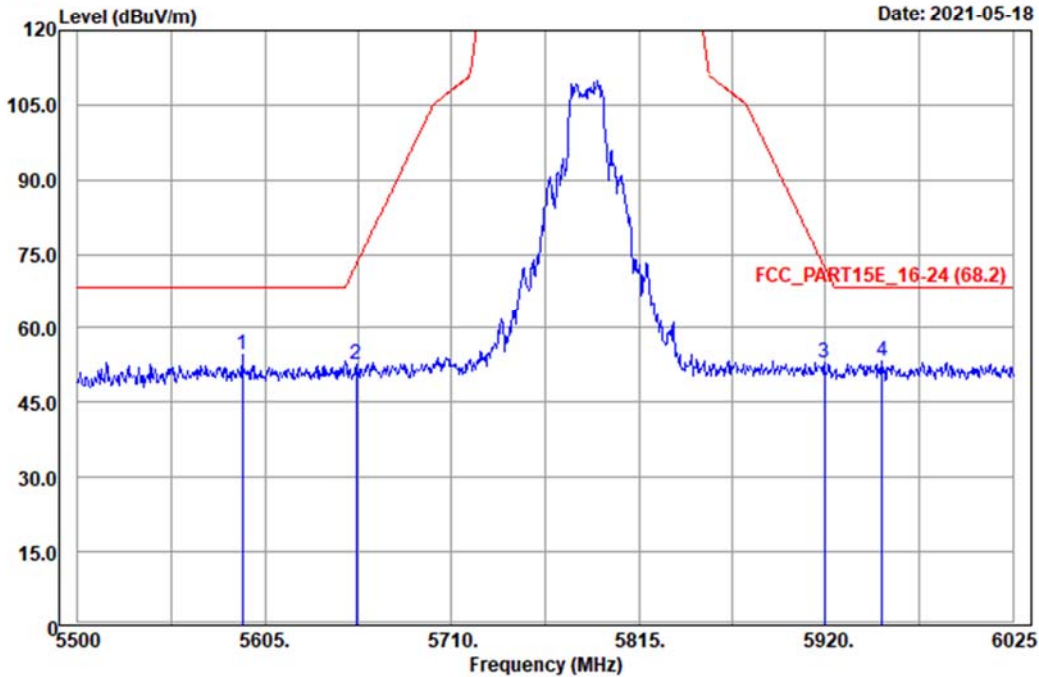
1. Level(dBuV/m) = Read Level(dBuV) + Factor(dB/m)
2. Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Over limit = Level – Limit value
5. The emission levels of other frequencies were very low against the limit.



## Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 7



Site : 966 chamber 1  
 Condition: FCC\_PART15E\_16-24 (68.2) 3m Vertical  
 Remark : 11AX\_HE20\_TX\_CH157  
 Tested by: Karl Lee  
 Rate : MCS0  
 Power : 21.5/21.5  
 RB/VB : 1 MHz / 1 KHz

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg	
1 pp	5592.40	54.53	43.78	10.75	68.20	-13.67	197	0	Peak
2	5656.45	52.53	41.66	10.87	72.97	-20.44	197	0	Peak
3	5919.48	53.09	42.00	11.09	72.29	-19.20	197	0	Peak
4	5951.50	53.25	42.06	11.19	68.20	-14.95	197	0	Peak

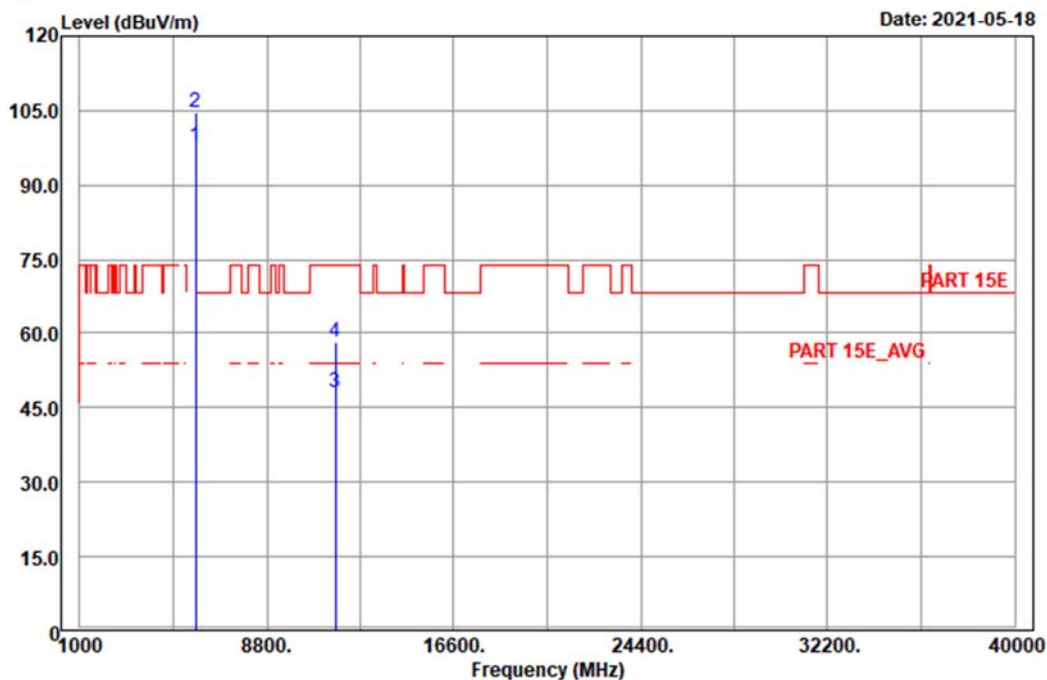
## Remarks:

- Level(dBuV/m) = Read Level(dBuV) + Factor(dB/m)
- Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
- The other emission levels were very low against the limit.
- Over limit = Level – Limit value
- The emission levels of other frequencies were very low against the limit.



A D T

Data: 8



Site : 966 chamber 1  
 Condition: PART 15E 3m Horizontal  
 Remark : 11AX\_HE20\_TX\_CH165  
 Tested by: Karl Lee  
 Rate : MCS0  
 Power : 21.5/21.5  
 RB/VB : 1 MHz / 1 KHz

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Apos	TPos	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg	
1	5825.00	97.74	86.86	10.88	-----	-----	100	108	Average
2	5825.00	104.53	93.65	10.88	-----	-----	100	108	Peak
3 pp	11650.00	47.97	31.19	16.78	54.00	-6.03	215	196	Average
4 pk	11650.00	58.22	41.44	16.78	74.00	-15.78	215	196	Peak

Remarks:

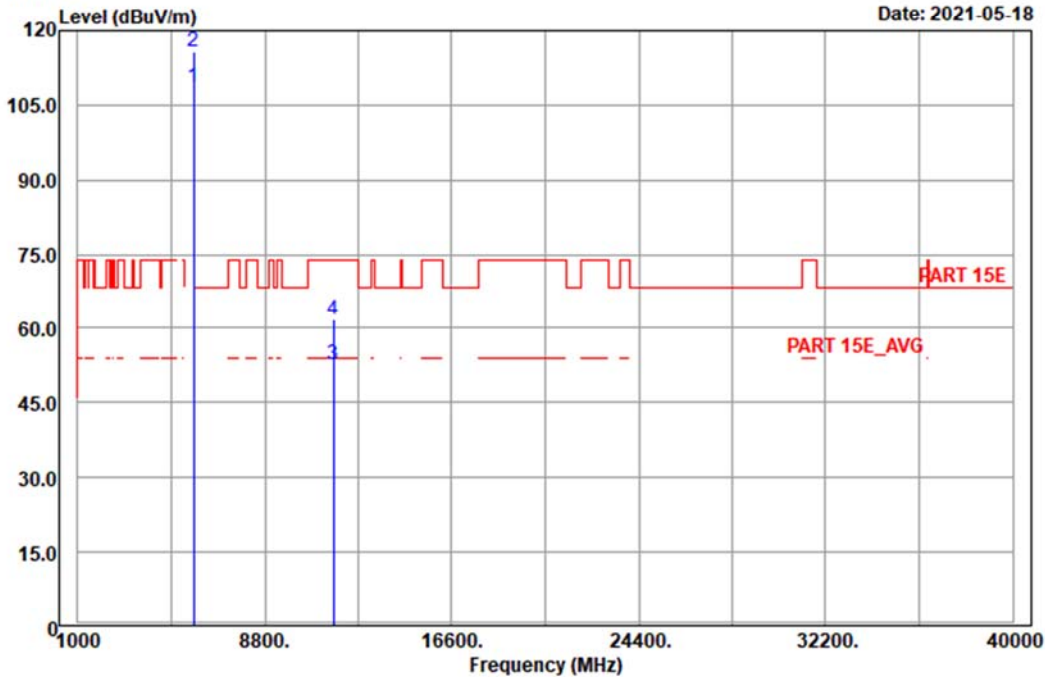
1. Level(dBuV/m) = Read Level(dBuV) + Factor(dB/m)
2. Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Over limit = Level – Limit value
5. The emission levels of other frequencies were very low against the limit.



## Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9



Site : 966 chamber 1  
 Condition: PART 15E 3m Vertical  
 Remark : 11AX\_HE20\_TX\_CH165  
 Tested by: Karl Lee  
 Rate : MCS0  
 Power : 21.5/21.5  
 RB/VB : 1 MHz / 1 KHz

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg	
1	5825.00	108.55	97.67	10.88	-----	-----	197	0	Average
2	5825.00	115.74	104.86	10.88	-----	-----	197	0	Peak
3 pp	11650.00	52.78	36.00	16.78	54.00	-1.22	106	257	Average
4 pk	11650.00	61.73	44.95	16.78	74.00	-12.27	106	257	Peak

## Remarks:

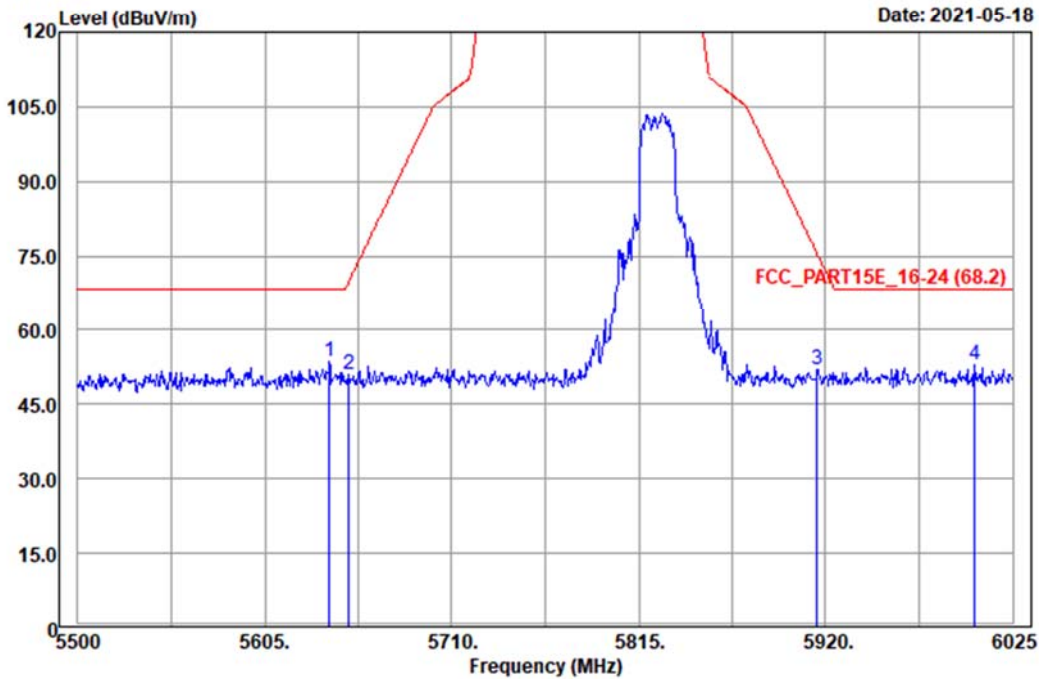
1. Level(dBuV/m) = Read Level(dBuV) + Factor(dB/m)
2. Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Over limit = Level – Limit value
5. The emission levels of other frequencies were very low against the limit.



## Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6



Site : 966 chamber 1  
 Condition: FCC\_PART15E\_16-24 (68.2) 3m Horizontal  
 Remark : 11AX\_HE20\_TX\_CH165  
 Tested by: Karl Lee  
 Rate : MCS0  
 Power : 21.5/21.5  
 RB/VB : 1 MHz / 1 KHz

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg	
1 pp	5641.23	53.74	42.91	10.83	68.20	-14.46	100	108	Peak
2	5652.25	50.85	39.98	10.87	69.86	-19.01	100	108	Peak
3	5915.28	51.96	40.87	11.09	75.40	-23.44	100	108	Peak
4	6004.00	53.01	41.68	11.33	68.20	-15.19	100	108	Peak

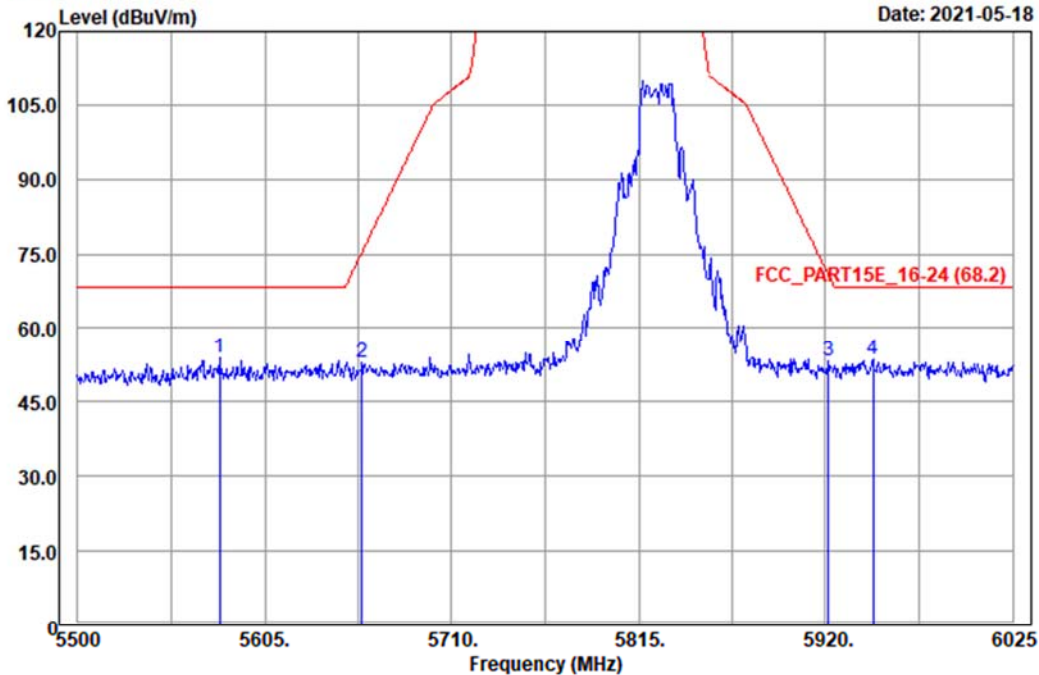
## Remarks:

1. Level(dBuV/m) = Read Level(dBuV) + Factor(dB/m)
2. Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Over limit = Level – Limit value
5. The emission levels of other frequencies were very low against the limit.



A D T

Data: 7



Site : 966 chamber 1  
 Condition: FCC\_PART15E\_16-24 (68.2) 3m Vertical  
 Remark : 11AX\_HE20\_TX\_CH165  
 Tested by: Karl Lee  
 Rate : MCS0  
 Power : 21.5/21.5  
 RB/VB : 1 MHz / 1 KHz

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg	
1 pp	5579.80	53.92	43.21	10.71	68.20	-14.28	197	0	Peak
2	5659.60	52.97	42.10	10.87	75.30	-22.33	197	0	Peak
3	5921.58	53.32	42.21	11.11	70.73	-17.41	197	0	Peak
4	5946.78	53.74	42.56	11.18	68.20	-14.46	197	0	Peak

## Remarks:

1. Level(dBuV/m) = Read Level(dBuV) + Factor(dB/m)
2. Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Over limit = Level – Limit value
5. The emission levels of other frequencies were very low against the limit.

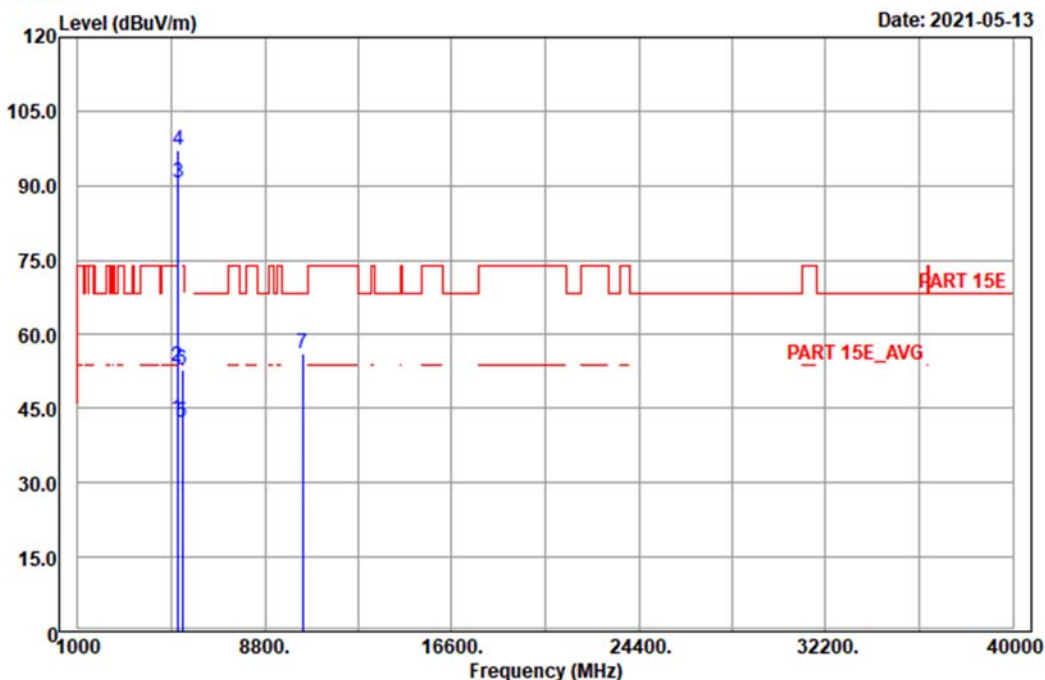
802.11ax (HE40)



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 17



Site : 966 chamber 1  
 Condition: PART 15E 3m Horizontal  
 Remark : 11AX\_HE40\_TX\_CH38  
 Tested by: Charles Hsiao  
 Rate : MCS0  
 Power : 15/15  
 RB/VB : 1 MHz / 1 KHz

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg	
1 pp	5150.00	42.80	32.75	10.05	54.00	-11.20	108	116	Average
2	5150.00	53.70	43.65	10.05	74.00	-20.30	108	116	Peak
3	5190.00	90.67	80.55	10.12	-----	-----	108	116	Average
4	5190.00	97.15	87.03	10.12	-----	-----	108	116	Peak
5	5350.00	42.32	32.09	10.23	54.00	-11.68	108	116	Average
6	5350.00	52.98	42.75	10.23	74.00	-21.02	108	116	Peak
7 pk	10380.00	56.37	40.27	16.10	68.20	-11.83	200	6	Peak

Remarks:

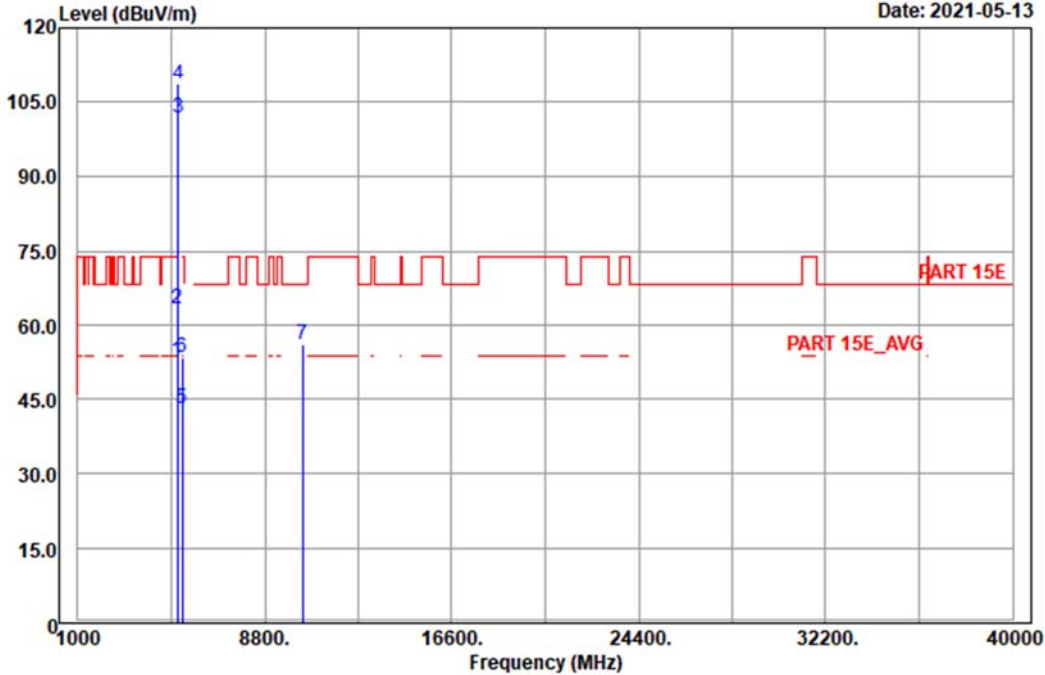
1. Level(dBuV/m) = Read Level(dBuV) + Factor(dB/m)
2. Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Over limit = Level – Limit value
5. The emission levels of other frequencies were very low against the limit.





A D T

Data: 18



Site : 966 chamber 1  
 Condition: PART 15E 3m Vertical  
 Remark : 11AX\_HE40\_TX\_CH38  
 Tested by: Charles Hsiao  
 Rate : MCS0  
 Power : 15/15  
 RB/VB : 1 MHz / 1 KHz

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg	
1 pp	5150.00	52.99	42.94	10.05	54.00	-1.01	182	20	Average
2 pk	5150.00	63.60	53.55	10.05	74.00	-10.40	182	20	Peak
3	5190.00	101.64	91.52	10.12	-----	-----	181	0	Average
4	5190.00	108.44	98.32	10.12	-----	-----	181	0	Peak
5	5350.00	43.21	32.98	10.23	54.00	-10.79	181	0	Average
6	5350.00	53.78	43.55	10.23	74.00	-20.22	181	0	Peak
7	10380.00	56.27	40.17	16.10	68.20	-11.93	201	285	Peak

## Remarks:

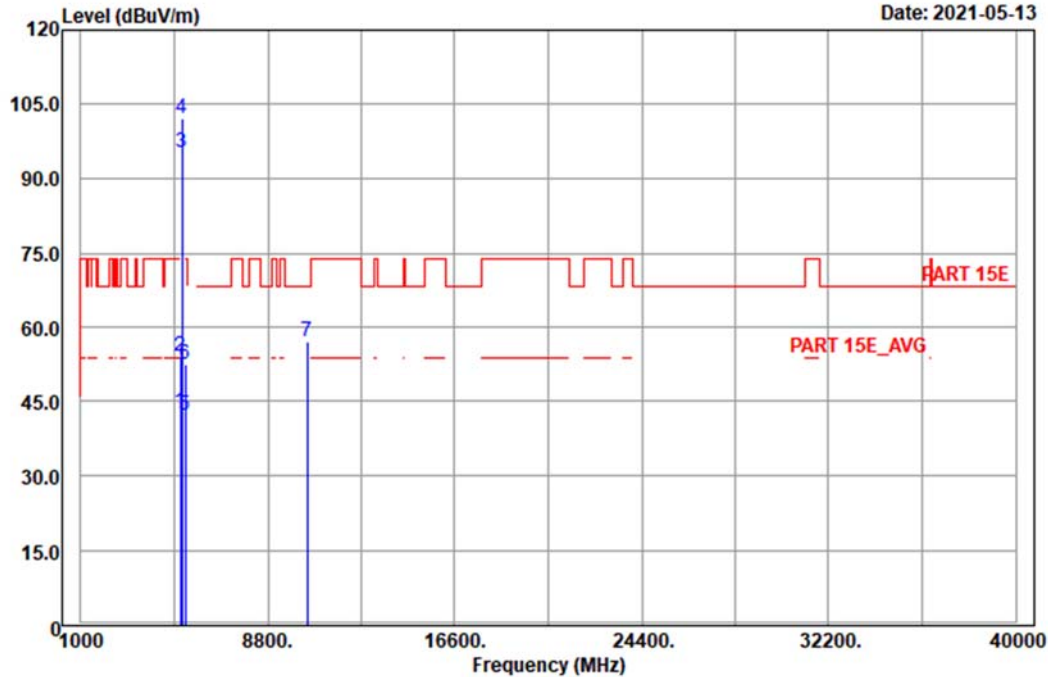
- Level(dBuV/m) = Read Level(dBuV) + Factor(dB/m)
- Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
- The other emission levels were very low against the limit.
- Over limit = Level – Limit value
- The emission levels of other frequencies were very low against the limit.



A D T

Data: 17

Date: 2021-05-13



Site : 966 chamber 1  
 Condition: PART 15E 3m Horizontal  
 Remark : 11AX\_HE40\_TX\_CH46  
 Tested by: Charles Hsiao  
 Rate : MCS0  
 Power : 25/25  
 RB/VB : 1 MHz / 1 KHz

	Read	Limit	Over	APos	TPos	Remark
Freq	Level	Factor	Line	Limit		
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm deg
1 av	5150.00	42.93	32.88	10.05	54.00	-11.07 108 116 Average
2	5150.00	54.34	44.29	10.05	74.00	-19.66 108 116 Peak
3	5230.00	95.29	85.15	10.14	-----	----- 108 116 Average
4	5230.00	102.07	91.93	10.14	-----	----- 108 116 Peak
5	5350.00	42.20	31.97	10.23	54.00	-11.80 108 116 Average
6	5350.00	52.80	42.57	10.23	74.00	-21.20 108 116 Peak
7 pp	10460.00	57.17	41.17	16.00	68.20	-11.03 200 6 Peak

## Remarks:

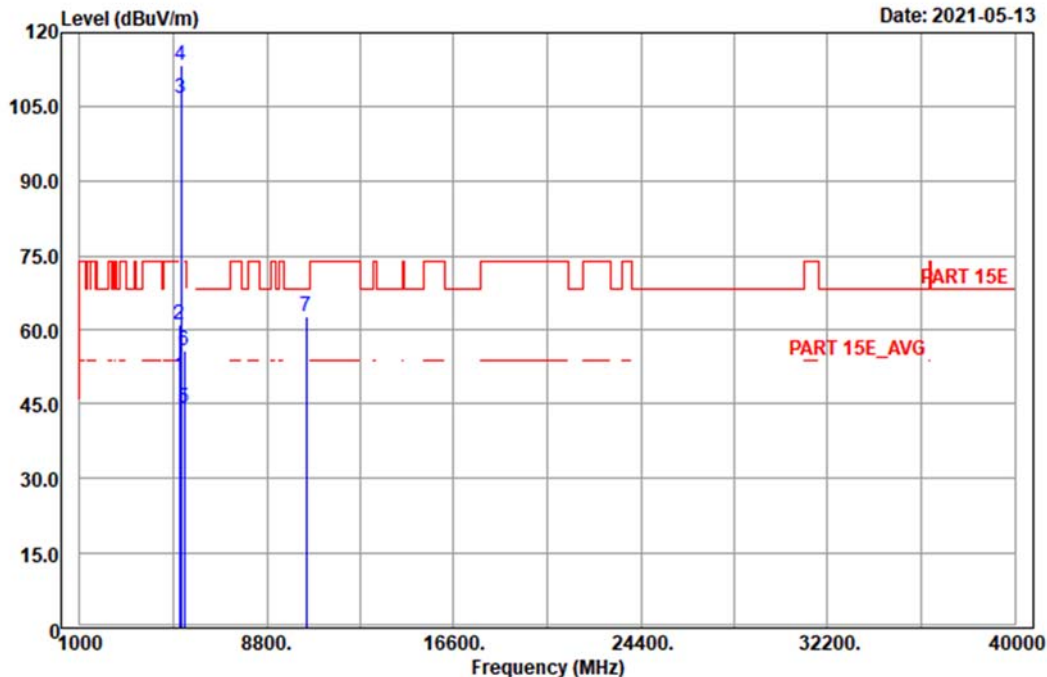
- Level(dBuV/m) = Read Level(dBuV) + Factor(dB/m)
- Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
- The other emission levels were very low against the limit.
- Over limit = Level – Limit value
- The emission levels of other frequencies were very low against the limit.



A D T

Data: 18

Date: 2021-05-13



Site : 966 chamber 1  
 Condition: PART 15E 3m Vertical  
 Remark : 11AX\_HE40\_TX\_CH46  
 Tested by: Charles Hsiao  
 Rate : MCS0  
 Power : 25/25  
 RB/VB : 1 MHz / 1 KHz

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg	
1 pp	5150.00	50.74	40.69	10.05	54.00	-3.26	181	0	Average
2	5150.00	61.01	50.96	10.05	74.00	-12.99	181	0	Peak
3	5230.00	106.44	96.30	10.14	-----	-----	181	0	Average
4	5230.00	113.42	103.28	10.14	-----	-----	181	0	Peak
5	5350.00	44.30	34.07	10.23	54.00	-9.70	181	0	Average
6	5350.00	56.01	45.78	10.23	74.00	-17.99	181	0	Peak
7 pk	10460.00	62.63	46.63	16.00	68.20	-5.57	201	285	Peak

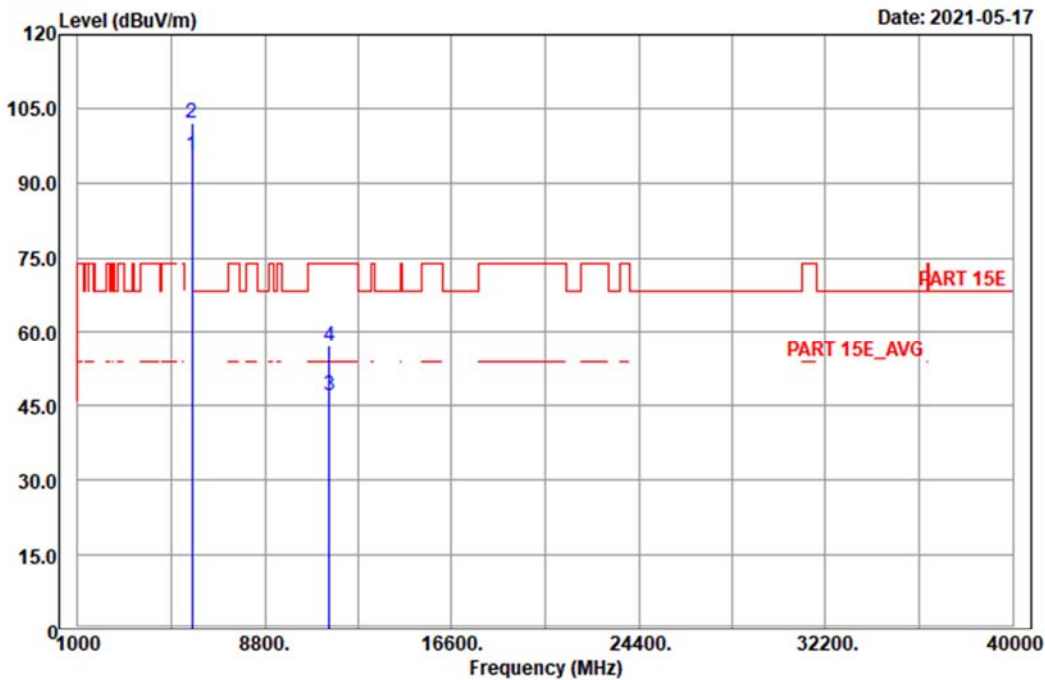
Remarks:

1. Level(dBuV/m) = Read Level(dBuV) + Factor(dB/m)
2. Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Over limit = Level – Limit value
5. The emission levels of other frequencies were very low against the limit.



A D T

Data: 8



Site : 966 chamber 1  
 Condition: PART 15E 3m Horizontal  
 Remark : 11AX\_HE40\_TX\_CH151  
 Tested by: Karl Lee  
 Rate : MCS0  
 Power : 24.5/24.5  
 RB/VB : 1 MHz / 1 KHz

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg	
1	5755.00	95.64	84.74	10.90	-----	-----	100	108	Average
2	5755.00	102.14	91.24	10.90	-----	-----	100	108	Peak
3 pp	11510.00	47.09	30.58	16.51	54.00	-6.91	204	209	Average
4 pk	11510.00	57.32	40.81	16.51	74.00	-16.68	204	209	Peak

## Remarks:

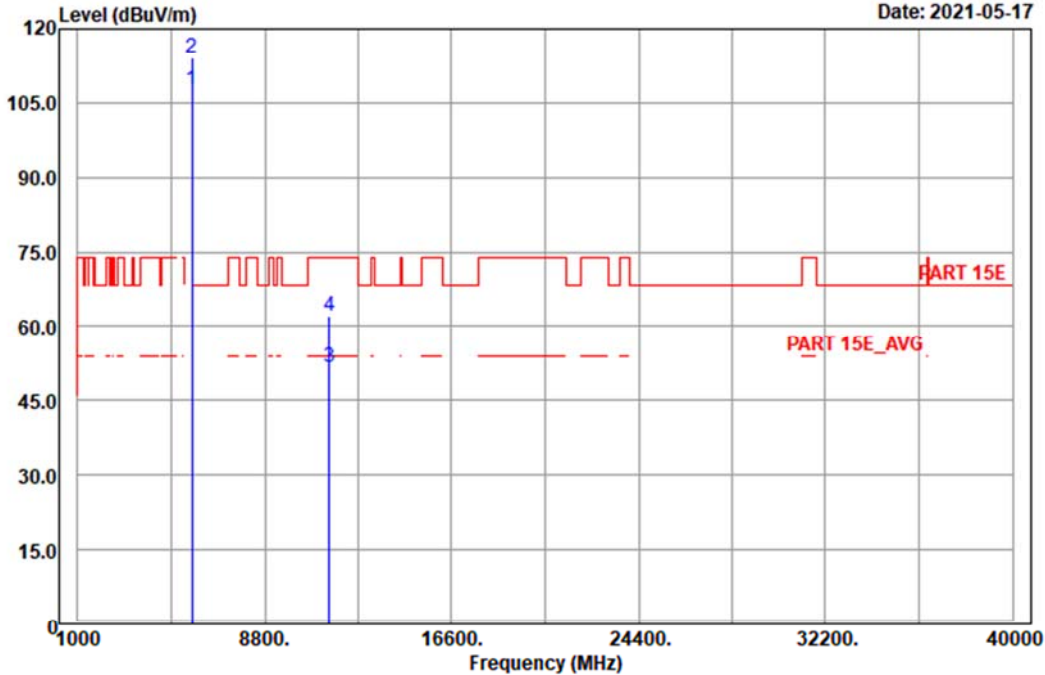
1. Level(dBuV/m) = Read Level(dBuV) + Factor(dB/m)
2. Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Over limit = Level – Limit value
5. The emission levels of other frequencies were very low against the limit.



## Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9



Site : 966 chamber 1  
 Condition: PART 15E 3m Vertical  
 Remark : 11AX\_HE40\_TX\_CH151  
 Tested by: Karl Lee  
 Rate : MCS0  
 Power : 24.5/24.5  
 RB/VB : 1 MHz / 1 KHz

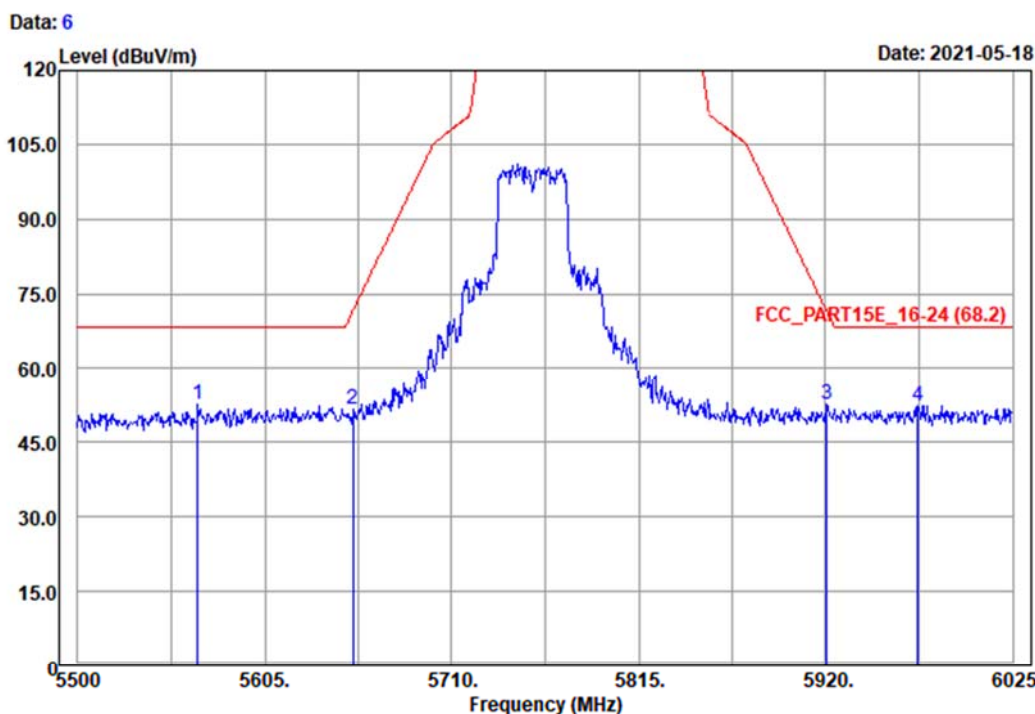
	Freq	Level	Read Level	Factor	Limit	Over Limit	APos	TPos	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg	
1	5755.00	107.42	96.52	10.90	-----	-----	197	0	Average
2	5755.00	114.00	103.10	10.90	-----	-----	197	0	Peak
3 pp	11510.00	51.67	35.16	16.51	54.00	-2.33	216	268	Average
4 pk	11510.00	62.17	45.66	16.51	74.00	-11.83	216	268	Peak

## Remarks:

1. Level(dBuV/m) = Read Level(dBuV) + Factor(dB/m)
2. Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Over limit = Level – Limit value
5. The emission levels of other frequencies were very low against the limit.



A D T



Site : 966 chamber 1  
 Condition: FCC\_PART15E\_16-24 (68.2) 3m Horizontal  
 Remark : 11AX\_HE40\_TX\_CH151  
 Tested by: Karl Lee  
 Rate : MCS0  
 Power : 24.5/24.5  
 RB/VB : 1 MHz / 1 KHz

	Freq	Level	Read Level	Factor	Limit	Over Limit	APos	TPos	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg	
1	pp 5567.20	52.56	41.86	10.70	68.20	-15.64	100	108	Peak
2	5654.35	51.57	40.70	10.87	71.42	-19.85	100	108	Peak
3	5920.53	52.55	41.46	11.09	71.51	-18.96	100	108	Peak
4	5971.98	52.46	41.21	11.25	68.20	-15.74	100	108	Peak

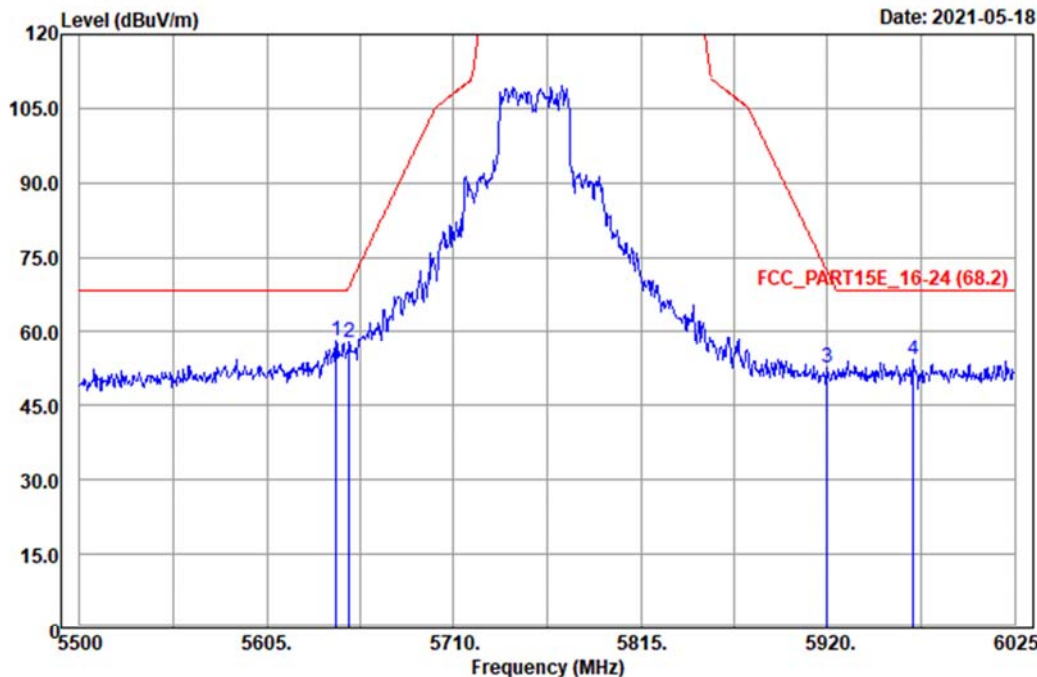
Remarks:

1. Level(dBuV/m) = Read Level(dBuV) + Factor(dB/m)
2. Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Over limit = Level – Limit value
5. The emission levels of other frequencies were very low against the limit.



A D T

Data: 7



Site : 966 chamber 1  
 Condition: FCC\_PART15E\_16-24 (68.2) 3m Vertical  
 Remark : 11AX\_HE40\_TX\_CH151  
 Tested by: Karl Lee  
 Rate : MCS0  
 Power : 24.5/24.5  
 RB/VB : 1 MHz / 1 KHz

	Freq	Level	Read	Limit	Over	APos	TPos	Remark
	MHz	dBuV/m	Level	Line	Limit	cm	deg	
			dBuV	dB/m	dBuV/m	dB		
1 pp	5643.85	58.17	47.34	10.83	68.20	-10.03	197	0 Peak
2	5651.20	58.01	47.14	10.87	69.09	-11.08	197	0 Peak
3	5920.00	52.67	41.58	11.09	71.90	-19.23	197	0 Peak
4	5968.30	54.32	43.09	11.23	68.20	-13.88	197	0 Peak

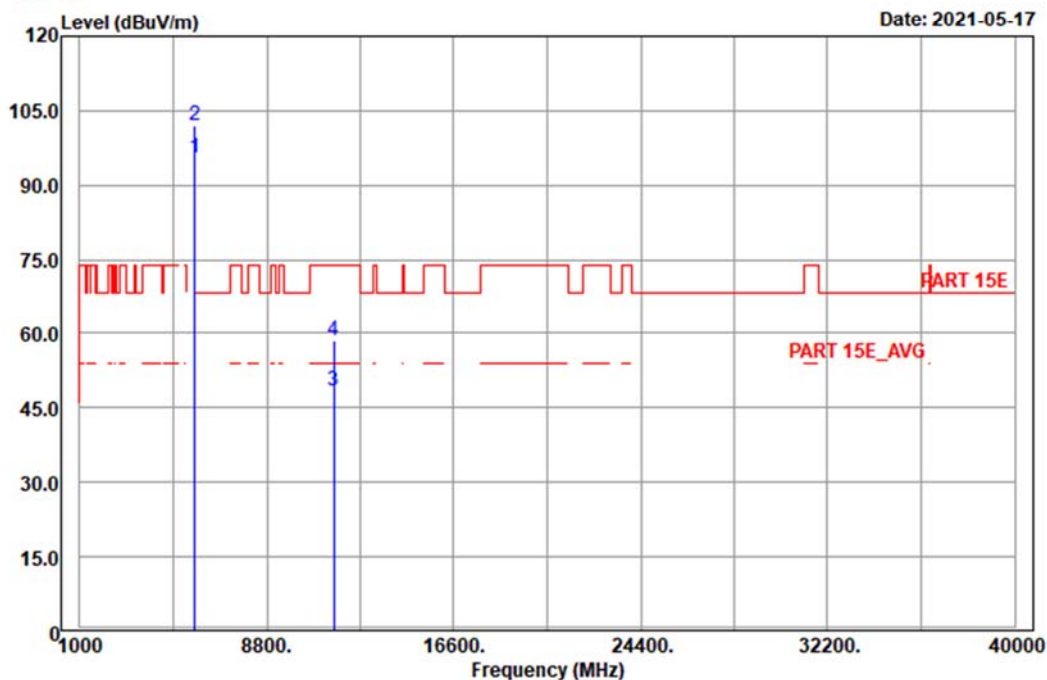
Remarks:

1. Level(dBuV/m) = Read Level(dBuV) + Factor(dB/m)
2. Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Over limit = Level – Limit value
5. The emission levels of other frequencies were very low against the limit.



A D T

Data: 8



Site : 966 chamber 1  
 Condition: PART 15E 3m Horizontal  
 Remark : 11AX\_HE40\_TX\_CH159  
 Tested by: Karl Lee  
 Rate : MCS0  
 Power : 25/25  
 RB/VB : 1 MHz / 1 KHz

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg	
1	5795.00	95.62	84.80	10.82	-----	-----	100	108	Average
2	5795.00	102.13	91.31	10.82	-----	-----	100	108	Peak
3 pp	11590.00	48.43	31.92	16.51	54.00	-5.57	177	216	Average
4 pk	11590.00	58.61	42.10	16.51	74.00	-15.39	177	216	Peak

Remarks:

1. Level(dBuV/m) = Read Level(dBuV) + Factor(dB/m)
2. Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Over limit = Level – Limit value
5. The emission levels of other frequencies were very low against the limit.