

FCC Test Report

Report No.: RF200406C42-1

FCC ID: 2AQLWYYCBV3

Test Model: Angel

Received Date: Apr. 06, 2020

Test Date: Jun. 16 ~ Jun. 19, 2020

Issued Date: Jun. 30, 2020

Applicant: Yun yun AI Baby camera Co., Ltd.

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



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Table of Contents

Release Control Record	4
1 Certificate of Conformity	5
2 Summary of Test Results.....	6
2.1 Measurement Uncertainty.....	6
2.2 Modification Record	6
3 General Information	7
3.1 General Description of EUT	7
3.2 Description of Test Modes.....	8
3.2.1 Test Mode Applicability and Tested Channel Detail.....	10
3.3 Duty Cycle of Test Signal	12
3.4 Description of Support Units	13
3.4.1 Configuration of System under Test	13
3.5 General Description of Applied Standards and References	14
4 Test Types and Results	15
4.1 Radiated Emission and Bandedge Measurement	15
4.1.1 Limits of Radiated Emission and Bandedge Measurement	15
4.1.2 Test Instruments	17
4.1.3 Test Procedures.....	18
4.1.4 Deviation from Test Standard	18
4.1.5 Test Setup.....	19
4.1.6 EUT Operating Conditions.....	20
4.1.7 Test Results	21
4.2 Conducted Emission Measurement.....	69
4.2.1 Limits of Conducted Emission Measurement	69
4.2.2 Test Instruments	69
4.2.3 Test Procedures.....	70
4.2.4 Deviation from Test Standard	70
4.2.5 Test Setup.....	70
4.2.6 EUT Operating Conditions.....	70
4.2.7 Test Results	71
4.3 Transmit Power Measurement.....	77
4.3.1 Limits of Transmit Power Measurement	77
4.3.2 Test Setup.....	77
4.3.3 Test Instruments	78
4.3.4 Test Procedure	78
4.3.5 Deviation from Test Standard	78
4.3.6 EUT Operating Conditions.....	78
4.3.7 Test Results	79
4.4 Occupied Bandwidth Measurement.....	86
4.4.1 Test Setup.....	86
4.4.2 Test Instruments	86
4.4.3 Test Procedure	86
4.4.4 Test Results	87
4.5 Peak Power Spectral Density Measurement	91
4.5.1 Limits of Peak Power Spectral Density Measurement	91
4.5.2 Test Setup.....	91
4.5.3 Test Instruments	91
4.5.4 Test Procedures.....	91
4.5.5 Deviation from Test Standard	92
4.5.6 EUT Operating Conditions.....	92
4.5.7 Test Results	93
4.6 Frequency Stability	98
4.6.1 Limit of Frequency Stability Measurement	98

4.6.2 Test Setup	98
4.6.3 Test Instruments	98
4.6.4 Test Procedure	98
4.6.5 Deviation from Test Standard	98
4.6.6 EUT Operating Condition	98
4.6.7 Test Results	99
4.7 6 dB Bandwidth Measurement.....	100
4.7.1 Limits of 6 dB Bandwidth Measurement.....	100
4.7.2 Test Setup.....	100
4.7.3 Test Instruments	100
4.7.4 Test Procedure	100
4.7.5 Deviation from Test Standard	100
4.7.6 EUT Operating Condition	100
4.7.7 Test Results	101
5 Pictures of Test Arrangements.....	103
Annex A- Radiated Out of Band Emission (OOBE) Measurement (For U-NII-3 band)	104
Annex B- Band Edge Measurement.....	107
Appendix – Information of the Testing Laboratories	120

Release Control Record

Issue No.	Description	Date Issued
RF200406C42-1	Original Release	Jun. 30, 2020

1 Certificate of Conformity

Product: Cubo AI Baby Monitor

Brand: CuboAi

Test Model: Angel

Sample Status: Production Unit

Applicant: Yun yun AI Baby camera Co., Ltd.

Test Date: Jun. 16 ~ Jun. 19, 2020

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 : Gina Liu, **Date:** Jun. 30, 2020
Gina Liu / Specialist

Approved by : Dylan Chiou, **Date:** Jun. 30, 2020
Dylan Chiou / 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)(6)	AC Power Conducted Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -1.02 dB at 0.66985 MHz.
15.407(b) (1/2/3/4(i/ii)/6)	Radiated Emissions & Band Edge Measurement	Pass	Meet the requirement of limit. Minimum passing margin is -0.7 dB at 5470.00 MHz.
15.407(a)(1/2/3)	Max Average Transmit Power	Pass	Meet the requirement of limit.
---	Occupied Bandwidth Measurement	-	Reference only
15.407(a)(1/2/3)	Peak Power Spectral Density	Pass	Meet the requirement of limit.
15.407(e)	6 dB 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	No antenna connector is used.

Note:

- For U-NII-3 band compliance with rule part 15.407(b)(4)(i), the OOB test plots were recorded in Annex A.
- For U-NII-1, U-NII-2A, U-NII-2C band compliance with rule 15.407(b) of the band-edge items, the test plots were recorded in Annex B. Test Procedures refer to report 4.1.3.
- Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

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

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

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	Cubo AI Baby Monitor
Brand	CuboAi
Test Model	Angel
Status of EUT	Production Unit
Power Supply Rating	5.0 Vdc (adapter & host equipment)
Modulation Type	256QAM, 64QAM, 16QAM, QPSK, BPSK
Modulation Technology	OFDM
Transfer Rate	802.11a: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0 Mbps 802.11n: up to 150.0 Mbps 802.11ac: up to 433.3 Mbps
Operating Frequency	5180 ~ 5240 MHz, 5260 ~ 5320 MHz, 5500 ~ 5720 MHz, 5745 ~ 5825 MHz
Number of Channel	5180 ~ 5240 MHz: 4 for 802.11a, 802.11n (HT20) 2 for 802.11n (HT40) 1 for 802.11ac (VHT80) 5260 ~ 5320 MHz: 4 for 802.11a, 802.11n (HT20) 2 for 802.11n (HT40) 1 for 802.11ac (VHT80) 5500 ~ 5720 MHz: 12 for 802.11a, 802.11n (HT20) 6 for 802.11n (HT40) 3 for 802.11ac (VHT80) 5745 ~ 5825 MHz: 5 for 802.11a, 802.11n (HT20) 2 for 802.11n (HT40) 1 for 802.11ac (VHT80)
Output Power (Measured Max. Average)	117.761 mW for 5180 ~ 5240 MHz 120.504 mW for 5260 ~ 5320 MHz 118.577 mW for 5500 ~ 5720 MHz 122.18 mW for 5745 ~ 5825 MHz
Antenna Type	PCB antenna with 1.80 dBi gain (5180 ~ 5240 MHz) PCB antenna with 1.95 dBi gain (5260 ~ 5320 MHz) PCB antenna with 1.95 dBi gain (5500 ~ 5720 MHz) PCB antenna with 1.95 dBi gain (5745 ~ 5825 MHz)
Antenna Connector	IPEX
Accessory Device	Refer to Note as below
Data Cable Supplied	Refer to Note as below

Note:

1. The EUT incorporates a SISO function. Physically, the EUT provides one completed transmitter and one receiver.

Modulation Mode	Tx Function
802.11a	1TX
802.11n (HT20)	1TX
802.11n (HT40)	1TX
802.11ac (VHT80)	1TX

2. The following accessories were for the End-product.

Product	Brand	Model	Description
Adapter	CuboAi	YJC010W-0502000U	I/P: 100-240 Vac, 50/60 Hz, 500 mA O/P: 5.0 Vdc, 2000 mA
USB Cable 1	CuboAi	AS42-20020033(2M)	2m shielded cable with core
USB Cable 2	CuboAi	AS42-20020034(3M)	3m shielded cable with core

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

For 5180 ~ 5240 MHz

4 channels are provided for 802.11a, 802.11n (HT20):

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

2 channels are provided for 802.11n (HT40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	46	5230

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency (MHz)
42	5210

For 5260 ~ 5320 MHz

4 channels are provided for 802.11a, 802.11n (HT20):

Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	60	5300
56	5280	64	5320

2 channels are provided for 802.11n (HT40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)
54	5270	62	5310

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency (MHz)
58	5290

For 5500 ~ 5720 MHz

12 channels are provided for 802.11a, 802.11n (HT20):

Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	124	5620
104	5520	128	5640
108	5540	132	5660
112	5560	136	5680
116	5580	140	5700
120	5600	144	5720

6 channels are provided for 802.11n (HT40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)
102	5510	126	5630
110	5550	134	5670
118	5590	142	5710

3 channels are provided for 802.11ac (VHT80):

Channel	Frequency (MHz)	Channel	Frequency (MHz)
106	5530	138	5690
122	5610		

For 5745 ~ 5825 MHz:

5 channels are provided for 802.11a, 802.11n (HT20):

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

2 channels are provided for 802.11n (HT40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)
151	5755	159	5795

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency (MHz)
155	5775

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable To				Description
	RE $\geq$ 1G	RE<1G	PLC	APCM	
A	√	√	√	√	EUT with Adapter
B	-	√	√	-	EUT with Notebook
C	-	√	√	-	EUT with Stand

Where **RE $\geq$ 1G**: Radiated Emission above 1 GHz

RE<1G: Radiated Emission below 1 GHz

PLC: Power Line Conducted Emission

APCM: Antenna Port Conducted Measurement

Note:

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. "-" means no effect.
3. For radiated emission (below 1GHz) and power line conducted emission test items, the worst maximum power was selected.

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	Frequency Band (MHz)	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
B	5180-5240	802.11a	36 to 48	36, 40, 48	OFDM	BPSK	6.0
		802.11n (HT20)	36 to 48	36, 40, 48	OFDM	BPSK	6.5
		802.11n (HT40)	38 to 46	38, 46	OFDM	BPSK	13.5
		802.11ac (VHT80)	42	42	OFDM	BPSK	29.3
	5260-5320	802.11a	52 to 64	52, 60, 64	OFDM	BPSK	6.0
		802.11n (HT20)	52 to 64	52, 60, 64	OFDM	BPSK	6.5
		802.11n (HT40)	54 to 62	54, 62	OFDM	BPSK	13.5
		802.11ac (VHT80)	58	58	OFDM	BPSK	29.3
	5500-5720	802.11a	100 to 144	100, 116, 140, 144	OFDM	BPSK	6.0
		802.11n (HT20)	100 to 144	100, 116, 140, 144	OFDM	BPSK	6.5
		802.11n (HT40)	102 to 142	102, 110, 134, 142	OFDM	BPSK	13.5
		802.11ac (VHT80)	106 to 138	106, 122, 138	OFDM	BPSK	29.3
	5745-5825	802.11a	149 to 165	149, 157, 165	OFDM	BPSK	6.0
		802.11n (HT20)	149 to 165	149, 157, 165	OFDM	BPSK	6.5
		802.11n (HT40)	151 to 159	151, 159	OFDM	BPSK	13.5
		802.11ac (VHT80)	155	155	OFDM	BPSK	29.3

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	Frequency Band (MHz)	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
A, B, C	5745-5825	802.11a	149 to 165	165	OFDM	BPSK	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	Frequency Band (MHz)	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
A, B, C	5745-5825	802.11a	149 to 165	165	OFDM	BPSK	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	Frequency Band (MHz)	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
B	5180-5240	802.11a	36 to 48	36, 40, 48	OFDM	BPSK	6.0
		802.11n (HT20)	36 to 48	36, 40, 48	OFDM	BPSK	6.5
		802.11n (HT40)	38 to 46	38, 46	OFDM	BPSK	13.5
		802.11ac (VHT80)	42	42	OFDM	BPSK	29.3
	5260-5320	802.11a	52 to 64	52, 60, 64	OFDM	BPSK	6.0
		802.11n (HT20)	52 to 64	52, 60, 64	OFDM	BPSK	6.5
		802.11n (HT40)	54 to 62	54, 62	OFDM	BPSK	13.5
		802.11ac (VHT80)	58	58	OFDM	BPSK	29.3
	5500-5720	802.11a	100 to 144	100, 116, 140, 144	OFDM	BPSK	6.0
		802.11n (HT20)	100 to 144	100, 116, 140, 144	OFDM	BPSK	6.5
		802.11n (HT40)	102 to 142	102, 110, 134, 142	OFDM	BPSK	13.5
		802.11ac (VHT80)	106 to 138	106, 122, 138	OFDM	BPSK	29.3
	5745-5825	802.11a	149 to 165	149, 157, 165	OFDM	BPSK	6.0
		802.11n (HT20)	149 to 165	149, 157, 165	OFDM	BPSK	6.5
		802.11n (HT40)	151 to 159	151, 159	OFDM	BPSK	13.5
		802.11ac (VHT80)	155	155	OFDM	BPSK	29.3

Test Condition:

Applicable To	Environmental Conditions	Input Power	Tested by
RE $\geq$ 1G	25 deg. C, 65 % RH	120 Vac, 60 Hz	Adair Peng, Titan Hsu
RE<1G	25 deg. C, 65 % RH	120 Vac, 60 Hz	Adair Peng
PLC	25 deg. C, 65 % RH	120 Vac, 60 Hz	Titan Hsu
APCM	25 deg. C, 65 % RH	5 Vdc	Wayne Lin

3.3 Duty Cycle of Test Signal

MODULATION TYPE: BPSK

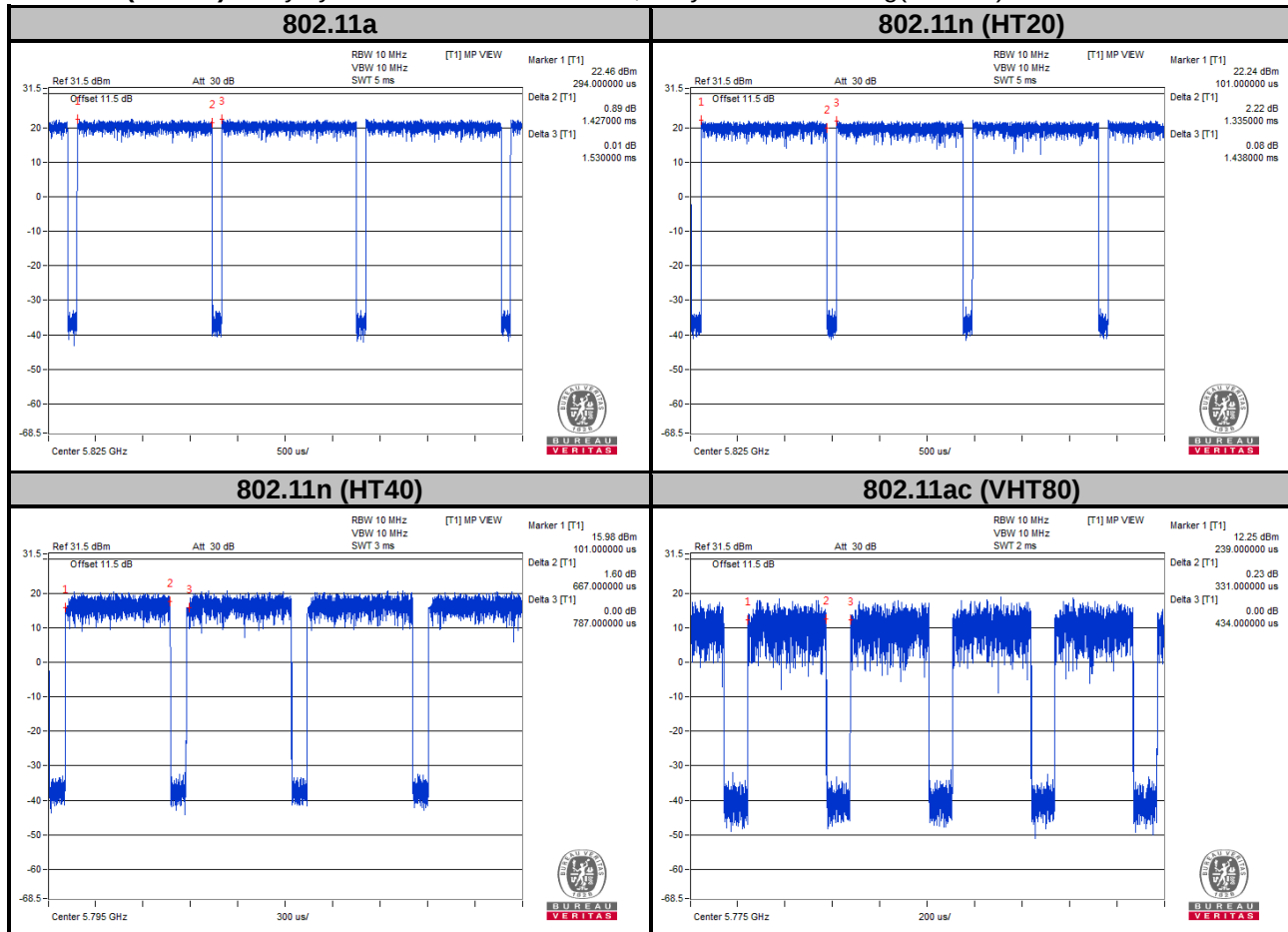
Duty cycle of test signal is < 98 %, duty factor is required.

802.11a: Duty cycle = $1.427/1.53 = 0.933$, Duty factor = $10 * \log(1/0.933) = 0.30$

802.11n (HT20): Duty cycle = $1.335/1.438 = 0.928$, Duty factor = $10 * \log(1/0.928) = 0.32$

802.11n (HT40): Duty cycle = $0.667/0.787 = 0.848$, Duty factor = $10 * \log(1/0.848) = 0.72$

802.11ac (VHT80): Duty cycle = $0.331/0.434 = 0.763$, Duty factor = $10 * \log(1/0.763) = 1.18$



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	E5420	33MJMQ1	N/A	Provided by Lab
B.	Stand	N/A	N/A	N/A	N/A	Provided by Client

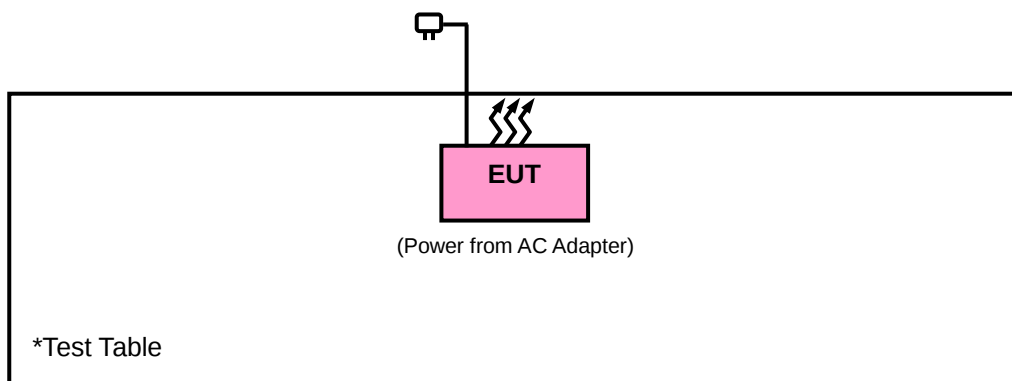
Note:

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

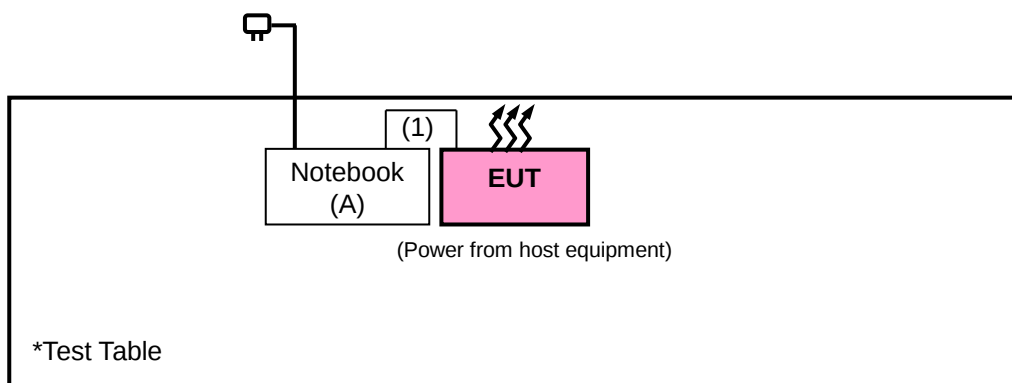
ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	USB Cable	1	2.0	Y	0	Accessory of the EUT

3.4.1 Configuration of System under Test

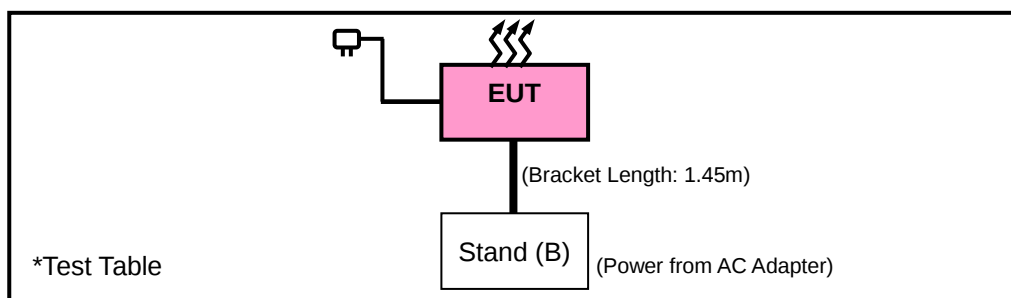
Mode A



Mode B



Mode C



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 Procedures New Rules 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 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.

Limits of Unwanted Emission Out of the Restricted Bands

Applicable To		Limit	
789033 D02 General UNII Test Procedures New Rules v02r01		Field Strength at 3 m	
		PK: 74 (dBμV/m)	AV: 54 (dBμV/m)
Frequency Band	Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
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	☒ 15.407(b)(4)(i)	PK:-27 (dBm/MHz) ^{*1} PK:10 (dBm/MHz) ^{*2} PK:15.6 (dBm/MHz) ^{*3} PK:27 (dBm/MHz) ^{*4}	PK: 68.2 (dBμV/m) ^{*1} PK:105.2 (dBμV/m) ^{*2} PK: 110.8 (dBμV/m) ^{*3} PK:122.2 (dBμV/m) ^{*4}
	☐ 15.407(b)(4)(ii)	Emission limits in section 15.247(d)	

^{*1} beyond 75 MHz or more above of the band edge.

^{*2} below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.

^{*3} below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.

^{*4} 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:

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

4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Date Of Calibration	Due Date Of Calibration
Test Receiver KEYSIGHT	N9038A	MY55420137	Apr. 16, 2020	Apr. 15, 2021
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100039	Jun. 12, 2020	Jun. 11, 2021
Spectrum Analyzer ROHDE & SCHWARZ	FSV40	100980	Apr. 20, 2020	Apr. 19, 2021
BILOG Antenna SCHWARZBECK	VULB9168	9168-160	Nov. 07, 2019	Nov. 06, 2020
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-1169	Nov. 24, 2019	Nov. 23, 2020
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Nov. 24, 2019	Nov. 23, 2020
Preamplifier Agilent (Below 1GHz)	8447D	2944A10638	Jul. 11, 2019	Jul. 10, 2020
Preamplifier Agilent (Above 1GHz)	8449B	3008A02367	Feb. 18, 2020	Feb. 17, 2021
Preamplifier EMC	EMC184045B	980175	Sep. 05, 2019	Sep. 04, 2020
RF signal cable HUBER+SUHNER&EMCI	SUCOFLEX 104 & EMC104-SM-SM8000	CABLE-CH9-02 (248780+171006)	Feb. 18, 2020	Feb. 17, 2021
RF signal cable HUBER+SUHNER	SUCOFLEX 104	CABLE-CH9-(2507 95/4)	Jul. 11, 2019	Jul. 10, 2020
RF signal cable Woken	8D-FB	Cable-CH9-01	Jul. 30, 2019	Jul. 29, 2020
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	NA	NA	NA
Antenna Tower EMCO	2070/2080	512.835.4684	NA	NA
Turn Table EMCO	2087-2.03	NA	NA	NA
Antenna Tower & Turn BV ADT	AT100	AT93021705	NA	NA
Turn Table BV ADT	TT100	TT93021705	NA	NA
Turn Table Controller BV ADT	SC100	SC93021705	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
USB Wideband Power Sensor KEYSIGHT	U2021XA	MY55050005/MY5 5190004/MY55190 007/MY55210005	Jul. 15, 2019	Jul. 14, 2020
STANDARD TEMPERATURE & HUMIDITY CHAMBER TERCHY	MHU-225AU	920842	May 27, 2020	May 26, 2021
DC power supply Keysight	U8002A	MY56330015	NA	NA
Digital Multimeter Fluke	87-III	70360742	Jun. 27, 2019	Jun. 26, 2020

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 9.

4.1.3 Test Procedures

For Radiated Emission below 30 MHz

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

Note:

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

For Radiated Emission above 30 MHz

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

Note:

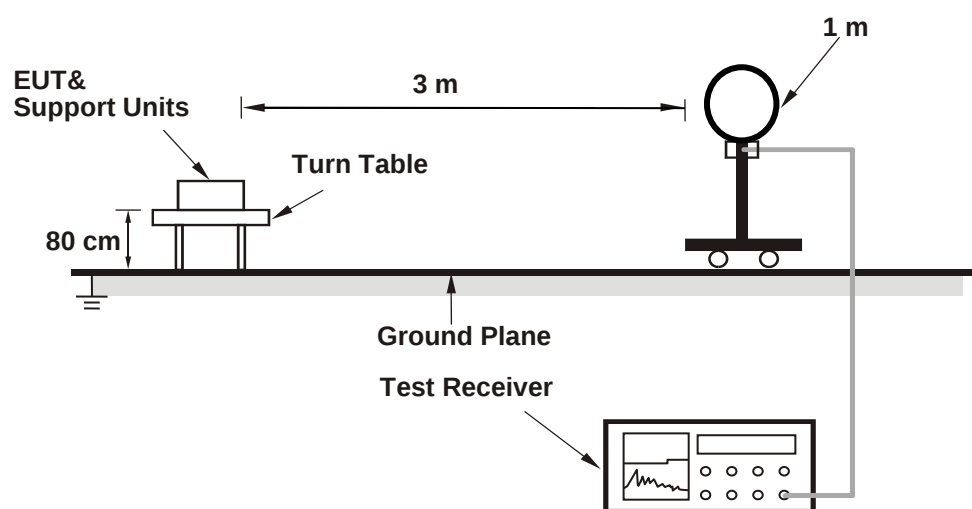
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) or Peak detection (PK) at frequency below 1 GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1 GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10 Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1 GHz.
(11a: RBW = 1 MHz, VBW = 1 kHz ; 11n (HT20): RBW = 1 MHz, VBW = 1 kHz ;
11n (HT40): RBW = 1 MHz, VBW = 3 kHz, 11ac (VHT80): RBW = 1 MHz, VBW = 10 kHz)
4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

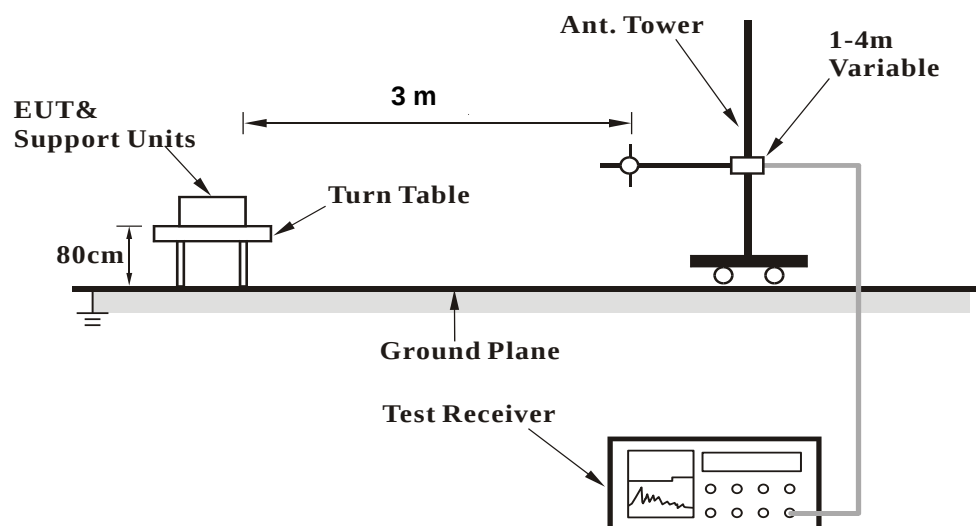
No deviation.

4.1.5 Test Setup

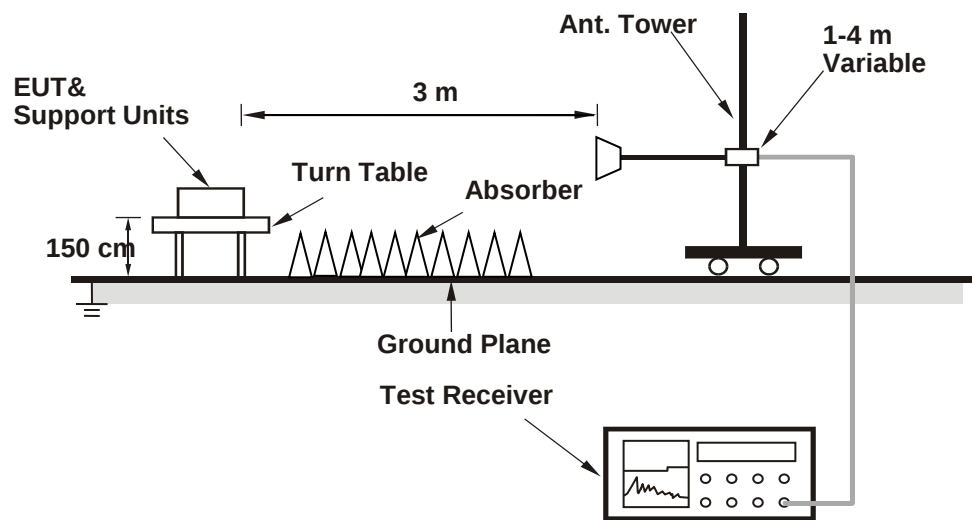
<Radiated Emission below 30 MHz>



<Radiated Emission 30 MHz to 1 GHz>



<Radiated Emission above 1 GHz>



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

4.1.6 EUT Operating Conditions

- Placed the EUT on a testing table.
- Use the software to control the EUT under transmission condition continuously at specific channel frequency.

4.1.7 Test Results

Above 1 GHz Data :

Mode B

802.11a

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	66.4 PK	74.0	-7.6	2.35 H	91	62.3	4.1
2	5150.00	49.6 AV	54.0	-4.4	2.35 H	91	45.5	4.1
3	*5180.00	107.1 PK			2.35 H	91	67.8	39.3
4	*5180.00	97.3 AV			2.35 H	91	58.0	39.3
5	#10360.00	59.9 PK	68.2	-8.3	2.15 H	230	42.7	17.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	69.0 PK	74.0	-5.0	1.82 V	67	64.9	4.1
2	5150.00	52.4 AV	54.0	-1.6	1.82 V	67	48.3	4.1
3	*5180.00	109.7 PK			1.82 V	67	70.4	39.3
4	*5180.00	100.1 AV			1.82 V	67	60.8	39.3
5	#10360.00	59.9 PK	68.2	-8.3	2.75 V	284	42.7	17.2

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 40	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	109.2 PK			2.20 H	86	69.9	39.3
2	*5200.00	99.6 AV			2.20 H	86	60.3	39.3
3	#10400.00	59.7 PK	68.2	-8.5	2.11 H	222	42.3	17.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	111.9 PK			2.05 V	68	72.6	39.3
2	*5200.00	102.3 AV			2.05 V	68	63.0	39.3
3	#10400.00	61.2 PK	68.2	-7.0	2.85 V	293	43.8	17.4

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	108.9 PK			2.13 H	86	69.8	39.1
2	*5240.00	99.4 AV			2.13 H	86	60.3	39.1
3	5350.00	55.1 PK	74.0	-18.9	2.13 H	86	51.0	4.1
4	5350.00	41.6 AV	54.0	-12.4	2.13 H	86	37.5	4.1
5	#10480.00	60.3 PK	68.2	-7.9	2.09 H	213	42.3	18.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	111.4 PK			2.00 V	69	72.3	39.1
2	*5240.00	101.8 AV			2.00 V	69	62.7	39.1
3	5350.00	55.1 PK	74.0	-18.9	2.00 V	69	51.0	4.1
4	5350.00	41.6 AV	54.0	-12.4	2.00 V	69	37.5	4.1
5	#10480.00	60.9 PK	68.2	-7.3	2.77 V	278	42.9	18.0

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	54.8 PK	74.0	-19.2	2.19 H	88	50.7	4.1
2	5150.00	41.4 AV	54.0	-12.6	2.19 H	88	37.3	4.1
3	*5260.00	110.6 PK			2.19 H	88	71.6	39.0
4	*5260.00	100.9 AV			2.19 H	88	61.9	39.0
5	#10520.00	60.8 PK	68.2	-7.4	2.18 H	231	42.5	18.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.4 PK	74.0	-18.6	1.69 V	63	51.3	4.1
2	5150.00	42.1 AV	54.0	-11.9	1.69 V	63	38.0	4.1
3	*5260.00	112.1 PK			1.69 V	63	73.1	39.0
4	*5260.00	102.4 AV			1.69 V	63	63.4	39.0
5	#10520.00	60.8 PK	68.2	-7.4	2.55 V	289	42.5	18.3

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 60	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	110.5 PK			2.19 H	87	71.4	39.1
2	*5300.00	100.8 AV			2.19 H	87	61.7	39.1
3	10600.00	61.4 PK	74.0	-12.6	2.22 H	241	42.5	18.9
4	10600.00	48.2 AV	54.0	-5.8	2.22 H	241	29.3	18.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	112.8 PK			1.73 V	67	73.7	39.1
2	*5300.00	102.9 AV			1.73 V	67	63.8	39.1
3	10600.00	61.2 PK	74.0	-12.8	2.58 V	291	42.3	18.9
4	10600.00	48.1 AV	54.0	-5.9	2.58 V	291	29.2	18.9

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	107.1 PK			2.22 H	88	67.9	39.2
2	*5320.00	97.4 AV			2.22 H	88	58.2	39.2
3	5350.00	65.8 PK	74.0	-8.2	2.22 H	88	61.7	4.1
4	5350.00	50.0 AV	54.0	-4.0	2.22 H	88	45.9	4.1
5	10640.00	60.9 PK	74.0	-13.1	2.22 H	243	42.3	18.6
6	10640.00	47.8 AV	54.0	-6.2	2.22 H	243	29.2	18.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	109.2 PK			2.04 V	66	70.0	39.2
2	*5320.00	99.4 AV			2.04 V	66	60.2	39.2
3	5350.00	66.1 PK	74.0	-7.9	2.04 V	66	62.0	4.1
4	5350.00	52.6 AV	54.0	-1.4	2.04 V	66	48.5	4.1
5	10640.00	60.9 PK	74.0	-13.1	2.59 V	292	42.3	18.6
6	10640.00	47.7 AV	54.0	-6.3	2.59 V	292	29.1	18.6

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	61.8 PK	74.0	-12.2	2.14 H	246	57.3	4.5
2	5460.00	45.1 AV	54.0	-8.9	2.14 H	246	40.6	4.5
3	#5470.00	66.2 PK	68.2	-2.0	2.14 H	246	61.7	4.5
4	*5500.00	106.8 PK			2.14 H	246	67.1	39.7
5	*5500.00	97.2 AV			2.14 H	246	57.5	39.7
6	11000.00	61.1 PK	74.0	-12.9	1.95 H	203	41.8	19.3
7	11000.00	47.8 AV	54.0	-6.2	1.95 H	203	28.5	19.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	59.4 PK	74.0	-14.6	1.52 V	71	54.9	4.5
2	5460.00	44.4 AV	54.0	-9.6	1.52 V	71	39.9	4.5
3	#5470.00	66.5 PK	68.2	-1.7	1.52 V	71	62.0	4.5
4	*5500.00	107.3 PK			1.52 V	71	67.6	39.7
5	*5500.00	97.7 AV			1.52 V	71	58.0	39.7
6	11000.00	61.3 PK	74.0	-12.7	2.53 V	266	42.0	19.3
7	11000.00	47.9 AV	54.0	-6.1	2.53 V	266	28.6	19.3

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	109.7 PK			2.10 H	245	70.0	39.7
2	*5580.00	100.1 AV			2.10 H	245	60.4	39.7
3	11160.00	60.2 PK	74.0	-13.8	2.02 H	210	41.6	18.6
4	11160.00	47.0 AV	54.0	-7.0	2.02 H	210	28.4	18.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	111.5 PK			2.65 V	284	71.8	39.7
2	*5580.00	101.8 AV			2.65 V	284	62.1	39.7
3	11160.00	60.9 PK	74.0	-13.1	1.65 V	271	42.3	18.6
4	11160.00	46.9 AV	54.0	-7.1	1.65 V	271	28.3	18.6

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	104.8 PK			2.18 H	242	65.0	39.8
2	*5700.00	95.3 AV			2.18 H	242	55.5	39.8
3	#5725.00	60.9 PK	68.2	-7.3	2.18 H	242	56.2	4.7
4	11400.00	60.2 PK	74.0	-13.8	1.99 H	193	41.7	18.5
5	11400.00	46.9 AV	54.0	-7.1	1.99 H	193	28.4	18.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	108.0 PK			1.96 V	66	68.2	39.8
2	*5700.00	98.2 AV			1.96 V	66	58.4	39.8
3	#5725.00	66.6 PK	68.2	-1.6	1.96 V	66	61.9	4.7
4	11400.00	60.4 PK	74.0	-13.6	2.47 V	255	41.9	18.5
5	11400.00	46.8 AV	54.0	-7.2	2.47 V	255	28.3	18.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 144	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5720.00	109.0 PK			2.14 H	98	69.0	40.0
2	*5720.00	99.5 AV			2.14 H	98	59.5	40.0
3	#5850.00	56.3 PK	68.2	-11.9	2.14 H	98	51.0	5.3
4	11440.00	59.9 PK	74.0	-14.1	2.11 H	221	41.3	18.6
5	11440.00	46.7 AV	54.0	-7.3	2.11 H	221	28.1	18.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5720.00	112.0 PK			2.71 V	278	72.0	40.0
2	*5720.00	102.2 AV			2.71 V	278	62.2	40.0
3	#5850.00	57.3 PK	68.2	-10.9	2.71 V	278	52.0	5.3
4	11440.00	60.1 PK	74.0	-13.9	2.63 V	288	41.5	18.6
5	11440.00	46.9 AV	54.0	-7.1	2.63 V	288	28.3	18.6

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5745.00	108.9 PK			2.23 H	96	68.9	40.0
2	*5745.00	99.4 AV			2.23 H	96	59.4	40.0
3	11490.00	61.1 PK	74.0	-12.9	1.89 H	213	42.3	18.8
4	11490.00	47.9 AV	54.0	-6.1	1.89 H	213	29.1	18.8
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5745.00	111.7 PK			2.72 V	275	71.7	40.0
2	*5745.00	102.0 AV			2.72 V	275	62.0	40.0
3	11490.00	60.4 PK	74.0	-13.6	2.20 V	243	41.6	18.8
4	11490.00	47.3 AV	54.0	-6.7	2.20 V	243	28.5	18.8

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5785.00	107.9 PK			2.02 H	94	67.7	40.2
2	*5785.00	98.3 AV			2.02 H	94	58.1	40.2
3	11570.00	60.9 PK	74.0	-13.1	1.82 H	216	42.4	18.5
4	11570.00	47.7 AV	54.0	-6.3	1.82 H	216	29.2	18.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5785.00	111.6 PK			2.68 V	277	71.4	40.2
2	*5785.00	101.9 AV			2.68 V	277	61.7	40.2
3	11570.00	60.0 PK	74.0	-14.0	2.31 V	250	41.5	18.5
4	11570.00	46.7 AV	54.0	-7.3	2.31 V	250	28.2	18.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5825.00	107.8 PK			2.19 H	107	67.4	40.4
2	*5825.00	98.1 AV			2.19 H	107	57.7	40.4
3	11650.00	60.7 PK	74.0	-13.3	1.92 H	216	42.2	18.5
4	11650.00	47.5 AV	54.0	-6.5	1.92 H	216	29.0	18.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5825.00	111.6 PK			2.66 V	277	71.2	40.4
2	*5825.00	101.8 AV			2.66 V	277	61.4	40.4
3	11650.00	60.2 PK	74.0	-13.8	2.07 V	241	41.7	18.5
4	11650.00	47.1 AV	54.0	-6.9	2.07 V	241	28.6	18.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

802.11n (HT20)

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	64.7 PK	74.0	-9.3	2.20 H	84	60.6	4.1
2	5150.00	50.8 AV	54.0	-3.2	2.20 H	84	46.7	4.1
3	*5180.00	107.4 PK			2.20 H	84	68.1	39.3
4	*5180.00	97.7 AV			2.20 H	84	58.4	39.3
5	#10360.00	59.7 PK	68.2	-8.5	2.15 H	231	42.5	17.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	67.0 PK	74.0	-7.0	1.81 V	68	62.9	4.1
2	5150.00	52.4 AV	54.0	-1.6	1.81 V	68	48.3	4.1
3	*5180.00	109.9 PK			1.81 V	68	70.6	39.3
4	*5180.00	99.6 AV			1.81 V	68	60.3	39.3
5	#10360.00	59.7 PK	68.2	-8.5	2.72 V	291	42.5	17.2

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 40	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	110.6 PK			2.18 H	84	71.3	39.3
2	*5200.00	100.5 AV			2.18 H	84	61.2	39.3
3	#10400.00	60.0 PK	68.2	-8.2	2.19 H	228	42.6	17.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	111.6 PK			1.81 V	70	72.3	39.3
2	*5200.00	101.3 AV			1.81 V	70	62.0	39.3
3	#10400.00	59.8 PK	68.2	-8.4	2.80 V	293	42.4	17.4

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	109.9 PK			2.17 H	88	70.8	39.1
2	*5240.00	99.8 AV			2.17 H	88	60.7	39.1
3	5350.00	55.1 PK	74.0	-18.9	2.17 H	88	51.0	4.1
4	5350.00	42.2 AV	54.0	-11.8	2.17 H	88	38.1	4.1
5	#10480.00	60.3 PK	68.2	-7.9	2.19 H	233	42.3	18.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	111.6 PK			2.02 V	66	72.5	39.1
2	*5240.00	101.6 AV			2.02 V	66	62.5	39.1
3	5350.00	55.5 PK	74.0	-18.5	2.02 V	66	51.4	4.1
4	5350.00	42.4 AV	54.0	-11.6	2.02 V	66	38.3	4.1
5	#10480.00	60.4 PK	68.2	-7.8	2.78 V	289	42.4	18.0

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.8 PK	74.0	-18.2	2.21 H	87	51.7	4.1
2	5150.00	42.6 AV	54.0	-11.4	2.21 H	87	38.5	4.1
3	*5260.00	111.1 PK			2.21 H	87	72.1	39.0
4	*5260.00	100.9 AV			2.21 H	87	61.9	39.0
5	#10520.00	60.8 PK	68.2	-7.4	2.18 H	234	42.5	18.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.3 PK	74.0	-18.7	1.71 V	66	51.2	4.1
2	5150.00	42.6 AV	54.0	-11.4	1.71 V	66	38.5	4.1
3	*5260.00	112.9 PK			1.71 V	66	73.9	39.0
4	*5260.00	102.5 AV			1.71 V	66	63.5	39.0
5	#10520.00	60.7 PK	68.2	-7.5	2.57 V	286	42.4	18.3

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 60	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	111.7 PK			2.16 H	87	72.6	39.1
2	*5300.00	101.0 AV			2.16 H	87	61.9	39.1
3	10600.00	61.3 PK	74.0	-12.7	2.18 H	225	42.4	18.9
4	10600.00	48.2 AV	54.0	-5.8	2.18 H	225	29.3	18.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	113.0 PK			1.89 V	67	73.9	39.1
2	*5300.00	102.4 AV			1.89 V	67	63.3	39.1
3	10600.00	61.3 PK	74.0	-12.7	2.61 V	292	42.4	18.9
4	10600.00	48.1 AV	54.0	-5.9	2.61 V	292	29.2	18.9

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	108.7 PK			2.12 H	87	69.5	39.2
2	*5320.00	98.4 AV			2.12 H	87	59.2	39.2
3	5350.00	69.8 PK	74.0	-4.2	2.12 H	87	65.7	4.1
4	5350.00	52.4 AV	54.0	-1.6	2.12 H	87	48.3	4.1
5	10640.00	61.1 PK	74.0	-12.9	2.21 H	241	42.5	18.6
6	10640.00	47.9 AV	54.0	-6.1	2.21 H	241	29.3	18.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	110.3 PK			2.03 V	67	71.1	39.2
2	*5320.00	100.2 AV			2.03 V	67	61.0	39.2
3	5350.00	71.4 PK	74.0	-2.6	2.03 V	67	67.3	4.1
4	5350.00	52.8 AV	54.0	-1.2	2.03 V	67	48.7	4.1
5	10640.00	61.0 PK	74.0	-13.0	2.62 V	292	42.4	18.6
6	10640.00	47.9 AV	54.0	-6.1	2.62 V	292	29.3	18.6

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	61.0 PK	74.0	-13.0	2.13 H	244	56.5	4.5
2	5460.00	45.8 AV	54.0	-8.2	2.13 H	244	41.3	4.5
3	#5470.00	65.0 PK	68.2	-3.2	2.13 H	244	60.5	4.5
4	*5500.00	107.4 PK			2.13 H	244	67.7	39.7
5	*5500.00	97.4 AV			2.13 H	244	57.7	39.7
6	11000.00	61.3 PK	74.0	-12.7	1.95 H	195	42.0	19.3
7	11000.00	48.1 AV	54.0	-5.9	1.95 H	195	28.8	19.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	63.7 PK	74.0	-10.3	2.68 V	278	59.2	4.5
2	5460.00	45.7 AV	54.0	-8.3	2.68 V	278	41.2	4.5
3	#5470.00	66.8 PK	68.2	-1.4	2.68 V	278	62.3	4.5
4	*5500.00	108.7 PK			2.68 V	278	69.0	39.7
5	*5500.00	97.5 AV			2.68 V	278	57.8	39.7
6	11000.00	61.4 PK	74.0	-12.6	2.22 V	253	42.1	19.3
7	11000.00	48.0 AV	54.0	-6.0	2.22 V	253	28.7	19.3

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	109.9 PK			2.14 H	247	70.2	39.7
2	*5580.00	99.3 AV			2.14 H	247	59.6	39.7
3	11160.00	60.6 PK	74.0	-13.4	2.05 H	210	42.0	18.6
4	11160.00	46.6 AV	54.0	-7.4	2.05 H	210	28.0	18.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	111.3 PK			2.68 V	282	71.6	39.7
2	*5580.00	101.0 AV			2.68 V	282	61.3	39.7
3	11160.00	60.8 PK	74.0	-13.2	2.25 V	253	42.2	18.6
4	11160.00	46.8 AV	54.0	-7.2	2.25 V	253	28.2	18.6

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	105.2 PK			2.20 H	245	65.4	39.8
2	*5700.00	95.5 AV			2.20 H	245	55.7	39.8
3	#5725.00	62.5 PK	68.2	-5.7	2.20 H	245	57.8	4.7
4	11400.00	60.3 PK	74.0	-13.7	2.00 H	201	41.8	18.5
5	11400.00	46.8 AV	54.0	-7.2	2.00 H	201	28.3	18.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	108.8 PK			2.73 V	277	69.0	39.8
2	*5700.00	97.7 AV			2.73 V	277	57.9	39.8
3	#5725.00	66.7 PK	68.2	-1.5	2.73 V	277	62.0	4.7
4	11400.00	60.5 PK	74.0	-13.5	2.51 V	266	42.0	18.5
5	11400.00	46.9 AV	54.0	-7.1	2.51 V	266	28.4	18.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 144	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5720.00	109.4 PK			2.19 H	99	69.4	40.0
2	*5720.00	98.9 AV			2.19 H	99	58.9	40.0
3	#5850.00	56.2 PK	68.2	-12.0	2.19 H	99	50.9	5.3
4	11440.00	60.1 PK	74.0	-13.9	2.15 H	211	41.5	18.6
5	11440.00	46.9 AV	54.0	-7.1	2.15 H	211	28.3	18.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5720.00	112.9 PK			2.71 V	279	72.9	40.0
2	*5720.00	102.3 AV			2.71 V	279	62.3	40.0
3	#5850.00	56.3 PK	68.2	-11.9	2.71 V	279	51.0	5.3
4	11440.00	60.4 PK	74.0	-13.6	2.44 V	269	41.8	18.6
5	11440.00	47.1 AV	54.0	-6.9	2.44 V	269	28.5	18.6

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5745.00	108.4 PK			2.19 H	107	68.4	40.0
2	*5745.00	98.2 AV			2.19 H	107	58.2	40.0
3	11490.00	60.8 PK	74.0	-13.2	1.92 H	216	42.0	18.8
4	11490.00	48.0 AV	54.0	-6.0	1.92 H	216	29.2	18.8
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5745.00	112.0 PK			2.66 V	278	72.0	40.0
2	*5745.00	101.4 AV			2.66 V	278	61.4	40.0
3	11490.00	60.3 PK	74.0	-13.7	1.99 V	253	41.5	18.8
4	11490.00	46.9 AV	54.0	-7.1	1.99 V	253	28.1	18.8

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5785.00	107.9 PK			2.09 H	100	67.7	40.2
2	*5785.00	97.9 AV			2.09 H	100	57.7	40.2
3	11570.00	60.6 PK	74.0	-13.4	1.92 H	217	42.1	18.5
4	11570.00	47.5 AV	54.0	-6.5	1.92 H	217	29.0	18.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5785.00	111.8 PK			2.70 V	278	71.6	40.2
2	*5785.00	101.7 AV			2.70 V	278	61.5	40.2
3	11570.00	60.2 PK	74.0	-13.8	2.00 V	261	41.7	18.5
4	11570.00	46.9 AV	54.0	-7.1	2.00 V	261	28.4	18.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5825.00	108.4 PK			2.09 H	93	68.0	40.4
2	*5825.00	98.2 AV			2.09 H	93	57.8	40.4
3	11650.00	60.6 PK	74.0	-13.4	1.89 H	221	42.1	18.5
4	11650.00	47.6 AV	54.0	-6.4	1.89 H	221	29.1	18.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5825.00	111.6 PK			2.67 V	275	71.2	40.4
2	*5825.00	101.8 AV			2.67 V	275	61.4	40.4
3	11650.00	60.4 PK	74.0	-13.6	2.05 V	253	41.9	18.5
4	11650.00	47.1 AV	54.0	-6.9	2.05 V	253	28.6	18.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

802.11n (HT40)

CHANNEL	TX Channel 38	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	68.6 PK	74.0	-5.4	2.20 H	86	64.5	4.1
2	5150.00	51.7 AV	54.0	-2.3	2.20 H	86	47.6	4.1
3	*5190.00	104.0 PK			2.20 H	86	64.7	39.3
4	*5190.00	94.1 AV			2.20 H	86	54.8	39.3
5	#10380.00	59.9 PK	68.2	-8.3	2.19 H	233	42.5	17.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	70.2 PK	74.0	-3.8	2.15 V	69	66.1	4.1
2	5150.00	52.5 AV	54.0	-1.5	2.15 V	69	48.4	4.1
3	*5190.00	106.1 PK			2.15 V	69	66.8	39.3
4	*5190.00	95.9 AV			2.15 V	69	56.6	39.3
5	#10380.00	60.0 PK	68.2	-8.2	2.77 V	289	42.6	17.4

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 46	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	60.6 PK	74.0	-13.4	2.23 H	90	56.5	4.1
2	5150.00	45.3 AV	54.0	-8.7	2.23 H	90	41.2	4.1
3	*5230.00	107.3 PK			2.23 H	90	68.2	39.1
4	*5230.00	98.9 AV			2.23 H	90	59.8	39.1
5	5350.00	54.9 PK	74.0	-19.1	2.23 H	90	50.8	4.1
6	5350.00	42.2 AV	54.0	-11.8	2.23 H	90	38.1	4.1
7	#10460.00	60.2 PK	68.2	-8.0	2.23 H	90	42.4	17.8
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	67.0 PK	74.0	-7.0	2.03 V	69	62.9	4.1
2	5150.00	51.1 AV	54.0	-2.9	2.03 V	69	47.0	4.1
3	*5230.00	109.9 PK			2.03 V	69	70.8	39.1
4	*5230.00	99.9 AV			2.03 V	69	60.8	39.1
5	5350.00	57.4 PK	74.0	-16.6	2.03 V	69	53.3	4.1
6	5350.00	43.7 AV	54.0	-10.3	2.03 V	69	39.6	4.1
7	#10460.00	60.4 PK	68.2	-7.8	2.69 V	284	42.6	17.8

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 54	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5270.00	109.1 PK			2.23 H	87	70.0	39.1
2	*5270.00	98.6 AV			2.23 H	87	59.5	39.1
3	5350.00	65.9 PK	74.0	-8.1	2.23 H	87	61.8	4.1
4	5350.00	49.9 AV	54.0	-4.1	2.23 H	87	45.8	4.1
5	#10540.00	60.9 PK	68.2	-7.3	2.29 H	242	42.4	18.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5270.00	109.2 PK			2.06 V	67	70.1	39.1
2	*5270.00	99.5 AV			2.06 V	67	60.4	39.1
3	5350.00	66.5 PK	74.0	-7.5	2.06 V	67	62.4	4.1
4	5350.00	51.0 AV	54.0	-3.0	2.06 V	67	46.9	4.1
5	#10540.00	61.0 PK	68.2	-7.2	2.62 V	288	42.5	18.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 62	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5310.00	103.1 PK			2.16 H	85	63.9	39.2
2	*5310.00	92.6 AV			2.16 H	85	53.4	39.2
3	5350.00	71.5 PK	74.0	-2.5	2.16 H	85	67.4	4.1
4	5350.00	51.9 AV	54.0	-2.1	2.16 H	85	47.8	4.1
5	10620.00	61.1 PK	74.0	-12.9	2.18 H	233	42.3	18.8
6	10620.00	48.0 AV	54.0	-6.0	2.18 H	233	29.2	18.8
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5310.00	104.2 PK			2.04 V	66	65.0	39.2
2	*5310.00	94.2 AV			2.04 V	66	55.0	39.2
3	5350.00	72.1 PK	74.0	-1.9	2.04 V	66	68.0	4.1
4	5350.00	52.8 AV	54.0	-1.2	2.04 V	66	48.7	4.1
5	10620.00	61.2 PK	74.0	-12.8	2.63 V	294	42.4	18.8
6	10620.00	48.0 AV	54.0	-6.0	2.63 V	294	29.2	18.8

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 102	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	60.5 PK	74.0	-13.5	2.09 H	96	56.0	4.5
2	5460.00	46.8 AV	54.0	-7.2	2.09 H	96	42.3	4.5
3	#5470.00	66.2 PK	68.2	-2.0	2.09 H	96	61.7	4.5
4	*5510.00	102.9 PK			2.09 H	96	63.2	39.7
5	*5510.00	92.5 AV			2.09 H	96	52.8	39.7
6	11020.00	61.1 PK	74.0	-12.9	1.88 H	192	42.0	19.1
7	11020.00	47.7 AV	54.0	-6.3	1.88 H	192	28.6	19.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	61.8 PK	74.0	-12.2	2.70 V	277	57.3	4.5
2	5460.00	47.0 AV	54.0	-7.0	2.70 V	277	42.5	4.5
3	#5470.00	67.3 PK	68.2	-0.9	2.70 V	277	62.8	4.5
4	*5510.00	103.0 PK			2.70 V	277	63.3	39.7
5	*5510.00	93.0 AV			2.70 V	277	53.3	39.7
6	11020.00	61.3 PK	74.0	-12.7	2.44 V	255	42.2	19.1
7	11020.00	48.0 AV	54.0	-6.0	2.44 V	255	28.9	19.1

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 110	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	63.1 PK	74.0	-10.9	2.03 H	95	58.6	4.5
2	5460.00	47.7 AV	54.0	-6.3	2.03 H	95	43.2	4.5
3	#5470.00	66.8 PK	68.2	-1.4	2.03 H	95	62.3	4.5
4	*5550.00	106.8 PK			2.03 H	95	67.1	39.7
5	*5550.00	97.0 AV			2.03 H	95	57.3	39.7
6	11100.00	61.1 PK	74.0	-12.9	1.90 H	203	42.5	18.6
7	11100.00	47.6 AV	54.0	-6.4	1.90 H	203	29.0	18.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	63.6 PK	74.0	-10.4	2.67 V	278	59.1	4.5
2	5460.00	47.7 AV	54.0	-6.3	2.67 V	278	43.2	4.5
3	#5470.00	66.2 PK	68.2	-2.0	2.67 V	278	61.7	4.5
4	*5550.00	108.3 PK			2.67 V	278	68.6	39.7
5	*5550.00	98.7 AV			2.67 V	278	59.0	39.7
6	11100.00	61.6 PK	74.0	-12.4	2.58 V	261	43.0	18.6
7	11100.00	48.1 AV	54.0	-5.9	2.58 V	261	29.5	18.6

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 134	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5670.00	104.1 PK			2.24 H	245	64.3	39.8
2	*5670.00	94.2 AV			2.24 H	245	54.4	39.8
3	#5725.00	61.4 PK	68.2	-6.8	2.24 H	245	56.7	4.7
4	11340.00	60.7 PK	74.0	-13.3	1.87 H	198	42.0	18.7
5	11340.00	47.3 AV	54.0	-6.7	1.87 H	198	28.6	18.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5670.00	106.5 PK			2.69 V	279	66.7	39.8
2	*5670.00	96.4 AV			2.69 V	279	56.6	39.8
3	#5725.00	66.7 PK	68.2	-1.5	2.69 V	279	62.0	4.7
4	11340.00	60.8 PK	74.0	-13.2	2.61 V	263	42.1	18.7
5	11340.00	47.5 AV	54.0	-6.5	2.61 V	263	28.8	18.7

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 142	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5710.00	106.0 PK			2.34 H	106	66.0	40.0
2	*5710.00	96.1 AV			2.34 H	106	56.1	40.0
3	#5850.00	55.9 PK	68.2	-12.3	2.34 H	106	50.6	5.3
4	11420.00	60.6 PK	74.0	-13.4	1.88 H	190	42.1	18.5
5	11420.00	47.3 AV	54.0	-6.7	1.88 H	190	28.8	18.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5710.00	109.4 PK			2.65 V	278	69.4	40.0
2	*5710.00	99.7 AV			2.65 V	278	59.7	40.0
3	#5850.00	57.3 PK	68.2	-10.9	2.65 V	278	52.0	5.3
4	11420.00	60.9 PK	74.0	-13.1	2.51 V	243	42.4	18.5
5	11420.00	47.6 AV	54.0	-6.4	2.51 V	243	29.1	18.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 151	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5755.00	106.2 PK			2.09 H	106	66.2	40.0
2	*5755.00	96.1 AV			2.09 H	106	56.1	40.0
3	11510.00	60.9 PK	74.0	-13.1	1.93 H	231	42.0	18.9
4	11510.00	48.2 AV	54.0	-5.8	1.93 H	231	29.3	18.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5755.00	108.8 PK			2.70 V	274	68.8	40.0
2	*5755.00	99.1 AV			2.70 V	274	59.1	40.0
3	11510.00	60.9 PK	74.0	-13.1	2.15 V	262	42.0	18.9
4	11510.00	48.0 AV	54.0	-6.0	2.15 V	262	29.1	18.9

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 159	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5795.00	105.6 PK			2.09 H	99	65.3	40.3
2	*5795.00	95.9 AV			2.09 H	99	55.6	40.3
3	11590.00	60.5 PK	74.0	-13.5	1.95 H	234	42.1	18.4
4	11590.00	47.6 AV	54.0	-6.4	1.95 H	234	29.2	18.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5795.00	109.1 PK			2.66 V	277	68.8	40.3
2	*5795.00	99.1 AV			2.66 V	277	58.8	40.3
3	11590.00	60.1 PK	74.0	-13.9	1.97 V	255	41.7	18.4
4	11590.00	47.3 AV	54.0	-6.7	1.97 V	255	28.9	18.4

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

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CHANNEL	TX Channel 42	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	60.3 PK	74.0	-13.7	2.20 H	89	56.2	4.1
2	5150.00	47.7 AV	54.0	-6.3	2.20 H	89	43.6	4.1
3	*5210.00	99.3 PK			2.20 H	89	60.1	39.2
4	*5210.00	89.5 AV			2.20 H	89	50.3	39.2
5	5350.00	55.3 PK	74.0	-18.7	2.18 H	88	51.2	4.1
6	5350.00	42.8 AV	54.0	-11.2	2.18 H	88	38.7	4.1
7	#10420.00	60.1 PK	74.0	-13.9	2.02 H	233	42.5	17.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	66.6 PK	74.0	-7.4	2.05 V	70	62.5	4.1
2	5150.00	53.1 AV	54.0	-0.9	2.05 V	70	49.0	4.1
3	*5210.00	101.8 PK			2.05 V	70	62.6	39.2
4	*5210.00	91.2 AV			2.05 V	70	52.0	39.2
5	5350.00	55.9 PK	74.0	-18.1	2.06 V	71	51.8	4.1
6	5350.00	43.3 AV	54.0	-10.7	2.06 V	71	39.2	4.1
7	#10420.00	60.1 PK	68.2	-8.1	2.71 V	291	42.5	17.6

REMARKS:

- Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
- Margin value = Emission Level – Limit value
- The other emission levels were very low against the limit.
- " * ": Fundamental frequency.
- " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 58	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	57.7 PK	74.0	-16.3	2.09 H	80	53.6	4.1
2	5150.00	44.5 AV	54.0	-9.5	2.09 H	80	40.4	4.1
3	*5290.00	100.4 PK			2.09 H	80	61.3	39.1
4	*5290.00	90.3 AV			2.09 H	80	51.2	39.1
5	5350.00	67.1 PK	74.0	-6.9	2.09 H	80	63.0	4.1
6	5350.00	53.0 AV	54.0	-1.0	2.09 H	80	48.9	4.1
7	#10580.00	61.2 PK	68.2	-7.0	2.21 H	242	42.4	18.8
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	56.7 PK	74.0	-17.3	1.90 V	66	52.6	4.1
2	5150.00	44.2 AV	54.0	-9.8	1.90 V	66	40.1	4.1
3	*5290.00	102.2 PK			1.90 V	66	63.1	39.1
4	*5290.00	92.0 AV			1.90 V	66	52.9	39.1
5	5350.00	68.4 PK	74.0	-5.6	1.90 V	66	64.3	4.1
6	5350.00	53.1 AV	54.0	-0.9	1.90 V	66	49.0	4.1
7	#10580.00	61.2 PK	68.2	-7.0	2.58 V	285	42.4	18.8

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 106	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	64.7 PK	74.0	-9.3	2.15 H	250	60.2	4.5
2	5460.00	50.9 AV	54.0	-3.1	2.15 H	250	46.4	4.5
3	#5470.00	65.3 PK	68.2	-2.9	2.15 H	250	60.8	4.5
4	*5530.00	98.5 PK			2.15 H	250	58.8	39.7
5	*5530.00	88.3 AV			2.15 H	250	48.6	39.7
6	#5725.00	56.1 PK	68.2	-12.1	2.15 H	250	51.4	4.7
7	11060.00	61.3 PK	74.0	-12.7	2.45 H	220	42.4	18.9
8	11060.00	48.2 AV	54.0	-5.8	2.45 H	220	29.3	18.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	64.3 PK	74.0	-9.7	2.65 V	279	59.8	4.5
2	5460.00	51.3 AV	54.0	-2.7	2.65 V	279	46.8	4.5
3	#5470.00	67.5 PK	68.2	-0.7	2.65 V	279	63.0	4.5
4	*5530.00	100.7 PK			2.65 V	279	61.0	39.7
5	*5530.00	90.7 AV			2.65 V	279	51.0	39.7
6	#5725.00	55.7 PK	68.2	-12.5	2.65 V	279	51.0	4.7
7	11060.00	61.6 PK	74.0	-12.4	2.45 V	259	42.7	18.9
8	11060.00	48.5 AV	54.0	-5.5	2.45 V	259	29.6	18.9

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 122	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	59.8 PK	74.0	-14.2	2.17 H	99	55.3	4.5
2	5460.00	46.8 AV	54.0	-7.2	2.17 H	99	42.3	4.5
3	#5470.00	61.3 PK	68.2	-6.9	2.17 H	99	56.8	4.5
4	*5610.00	102.7 PK			2.17 H	99	62.9	39.8
5	*5610.00	93.0 AV			2.17 H	99	53.2	39.8
6	#5725.00	63.0 PK	68.2	-5.2	2.17 H	99	58.3	4.7
7	11220.00	60.4 PK	74.0	-13.6	1.97 H	222	41.7	18.7
8	11220.00	47.8 AV	54.0	-6.2	1.97 H	222	29.1	18.7

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	60.8 PK	74.0	-13.2	2.70 V	282	56.3	4.5
2	5460.00	48.0 AV	54.0	-6.0	2.70 V	282	43.5	4.5
3	#5470.00	62.6 PK	68.2	-5.6	2.70 V	282	58.1	4.5
4	*5610.00	105.1 PK			2.70 V	282	65.3	39.8
5	*5610.00	95.1 AV			2.70 V	282	55.3	39.8
6	#5725.00	66.7 PK	68.2	-1.5	2.70 V	282	62.0	4.7
7	11220.00	60.7 PK	74.0	-13.3	2.61 V	253	42.0	18.7
8	11220.00	48.2 AV	54.0	-5.8	2.61 V	253	29.5	18.7

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 138	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	57.2 PK	74.0	-16.8	2.22 H	243	52.7	4.5
2	5460.00	44.1 AV	54.0	-9.9	2.22 H	243	39.6	4.5
3	#5470.00	57.7 PK	68.2	-10.5	2.22 H	243	53.2	4.5
4	*5690.00	103.2 PK			2.22 H	243	63.4	39.8
5	*5690.00	93.4 AV			2.22 H	243	53.6	39.8
6	#5850.00	57.0 PK	68.2	-11.2	2.22 H	243	51.7	5.3
7	11380.00	60.1 PK	74.0	-13.9	2.10 H	222	41.6	18.5
8	11380.00	47.7 AV	54.0	-6.3	2.10 H	222	29.2	18.5

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	57.1 PK	74.0	-16.9	2.74 V	278	52.6	4.5
2	5460.00	44.2 AV	54.0	-9.8	2.74 V	278	39.7	4.5
3	#5470.00	58.1 PK	68.2	-10.1	2.74 V	278	53.6	4.5
4	*5690.00	106.7 PK			2.74 V	278	66.9	39.8
5	*5690.00	96.6 AV			2.74 V	278	56.8	39.8
6	#5850.00	59.8 PK	68.2	-8.4	2.74 V	278	54.5	5.3
7	11380.00	60.4 PK	74.0	-13.6	2.39 V	249	41.9	18.5
8	11380.00	48.0 AV	54.0	-6.0	2.39 V	249	29.5	18.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 155	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5650.00	64.3 PK	68.2	-3.9	2.22 H	106	59.9	4.4
2	*5775.00	102.5 PK			2.22 H	106	62.4	40.1
3	*5775.00	92.5 AV			2.22 H	106	52.4	40.1
4	#5925.00	58.4 PK	68.2	-9.8	2.22 H	106	53.1	5.3
5	11550.00	60.8 PK	74.0	-13.2	1.99 H	229	42.1	18.7
6	11550.00	48.1 AV	54.0	-5.9	1.99 H	229	29.4	18.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5650.00	67.0 PK	68.2	-1.2	2.73 V	279	62.6	4.4
2	*5775.00	105.9 PK			2.73 V	279	65.8	40.1
3	*5775.00	95.7 AV			2.73 V	279	55.6	40.1
4	#5925.00	62.4 PK	68.2	-5.8	2.73 V	279	57.1	5.3
5	11550.00	60.9 PK	74.0	-13.1	2.21 V	253	42.2	18.7
6	11550.00	48.3 AV	54.0	-5.7	2.21 V	253	29.6	18.7

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

30 MHz ~ 1 GHz Worst-Case Data:

802.11a

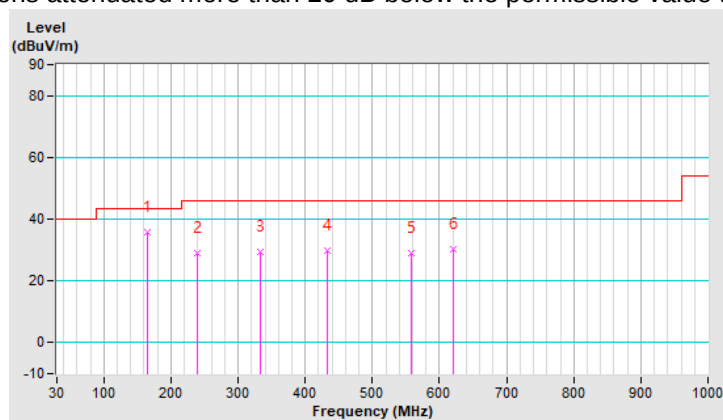
Mode A

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	164.96	35.9 QP	43.5	-7.6	1.50 H	2	44.6	-8.7
2	239.46	29.0 QP	46.0	-17.0	1.50 H	64	38.9	-9.9
3	333.65	29.6 QP	46.0	-16.4	1.00 H	222	35.9	-6.3
4	432.06	29.8 QP	46.0	-16.2	1.50 H	275	32.9	-3.1
5	557.17	29.0 QP	46.0	-17.0	2.00 H	137	29.3	-0.3
6	620.43	30.1 QP	46.0	-15.9	1.00 H	253	28.8	1.3

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

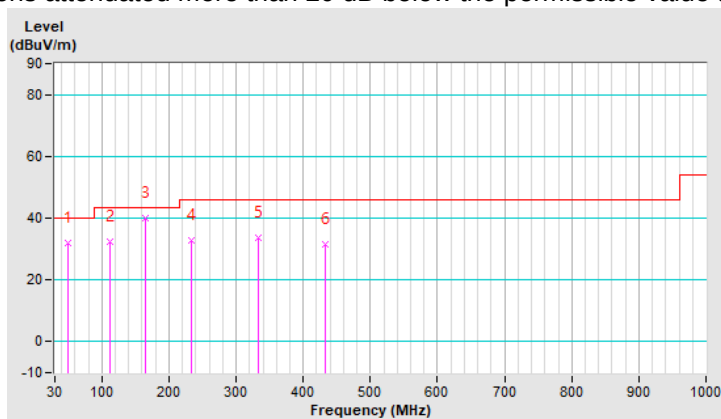


CHANNEL	TX Channel 165	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	49.68	31.8 QP	40.0	-8.2	1.00 V	281	40.6	-8.8
2	111.54	32.4 QP	43.5	-11.1	1.00 V	102	44.2	-11.8
3	164.96	40.0 QP	43.5	-3.5	1.00 V	92	48.7	-8.7
4	232.43	32.9 QP	46.0	-13.1	1.50 V	116	43.7	-10.8
5	333.65	33.6 QP	46.0	-12.4	1.00 V	189	39.9	-6.3
6	432.06	31.5 QP	46.0	-14.5	1.50 V	64	34.6	-3.1

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



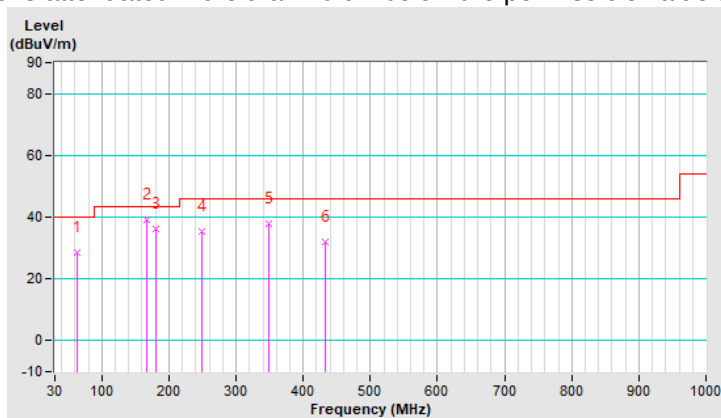
Mode B

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	62.33	28.6 QP	40.0	-11.4	2.00 H	346	38.1	-9.5
2	166.36	39.3 QP	43.5	-4.2	2.00 H	278	48.0	-8.7
3	180.42	36.0 QP	43.5	-7.5	2.00 H	304	45.9	-9.9
4	249.30	35.3 QP	46.0	-10.7	1.00 H	311	44.8	-9.5
5	349.12	37.7 QP	46.0	-8.3	1.00 H	142	44.0	-6.3
6	432.06	31.8 QP	46.0	-14.2	1.51 H	282	34.9	-3.1

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

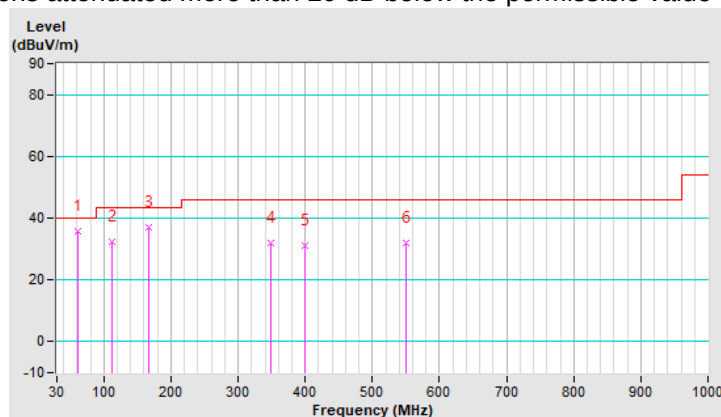


CHANNEL	TX Channel 165	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	60.93	35.9 QP	40.0	-4.1	1.50 V	44	45.3	-9.4
2	111.54	32.2 QP	43.5	-11.3	1.00 V	93	44.0	-11.8
3	166.36	37.2 QP	43.5	-6.3	1.00 V	13	45.9	-8.7
4	349.12	31.9 QP	46.0	-14.1	1.00 V	249	38.2	-6.3
5	399.72	31.2 QP	46.0	-14.8	1.00 V	226	35.7	-4.5
6	550.14	32.0 QP	46.0	-14.0	1.00 V	312	32.5	-0.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



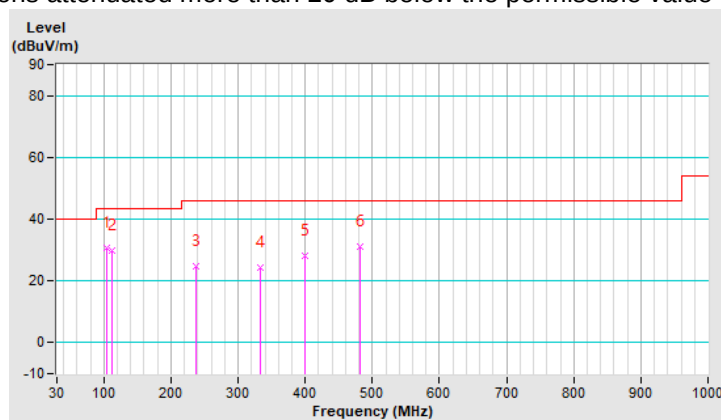
Mode C

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	104.51	30.5 QP	43.5	-13.0	1.99 H	196	42.9	-12.4
2	111.54	29.7 QP	43.5	-13.8	1.99 H	260	41.5	-11.8
3	238.06	24.7 QP	46.0	-21.3	1.00 H	205	34.8	-10.1
4	333.65	24.2 QP	46.0	-21.8	1.49 H	222	30.5	-6.3
5	399.72	28.1 QP	46.0	-17.9	1.00 H	235	32.6	-4.5
6	482.67	31.1 QP	46.0	-14.9	1.00 H	140	33.0	-1.9

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

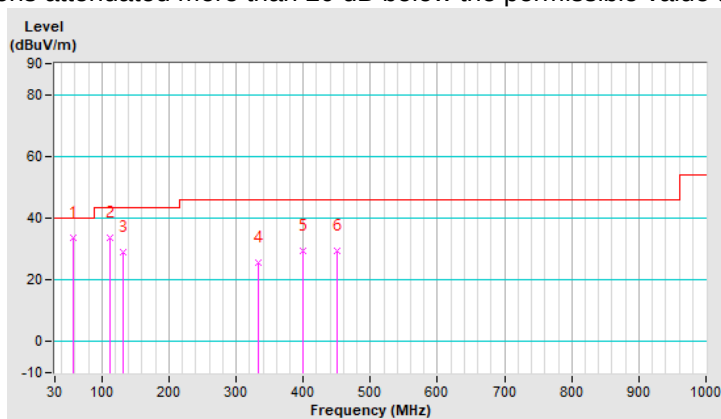


CHANNEL	TX Channel 165	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	56.71	33.5 QP	40.0	-6.5	1.01 V	312	42.6	-9.1
2	111.54	33.5 QP	43.5	-10.0	1.01 V	108	45.3	-11.8
3	131.22	28.9 QP	43.5	-14.6	1.01 V	94	38.8	-9.9
4	333.65	25.6 QP	46.0	-20.4	2.00 V	211	31.9	-6.3
5	399.72	29.3 QP	46.0	-16.7	1.51 V	214	33.8	-4.5
6	450.33	29.5 QP	46.0	-16.5	1.51 V	123	32.1	-2.6

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



4.2 Conducted Emission Measurement

4.2.1 Limits of Conducted Emission Measurement

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

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

4.2.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Test Receiver ROHDE & SCHWARZ	ESCI	100613	Dec. 11, 2019	Dec. 10, 2020
RF signal cable Woken	5D-FB	Cable-cond1-01	Sep. 05, 2019	Sep. 04, 2020
LISN ROHDE & SCHWARZ (EUT)	ENV216	101826	Feb. 20, 2020	Feb. 19, 2021
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	Aug. 22, 2019	Aug. 21, 2020
Software ADT	BV ADT_Cond_ V7.3.7.4	NA	NA	NA

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

4.2.3 Test Procedures

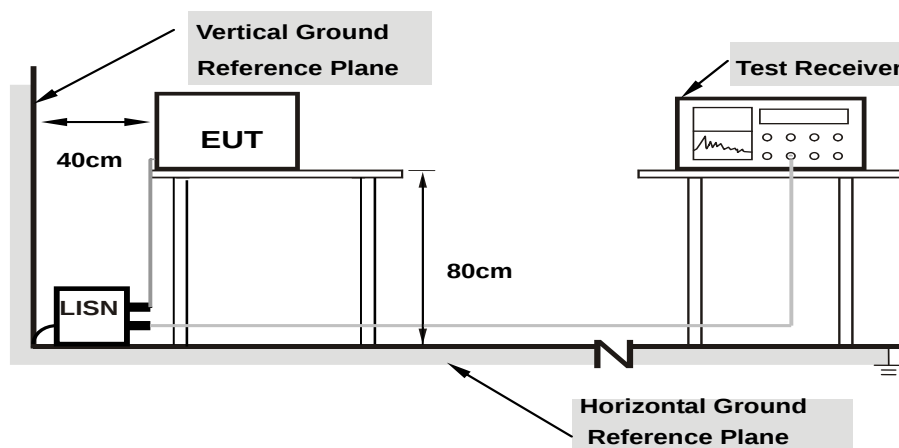
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance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

Note: All modes of operation were investigated and the worst-case emissions are reported.

4.2.4 Deviation from Test Standard

No deviation.

4.2.5 Test Setup



- Note:** 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

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

4.2.6 EUT Operating Conditions

- Placed the EUT on a testing table.
- Use the software to control the EUT under transmission condition continuously at specific channel frequency.

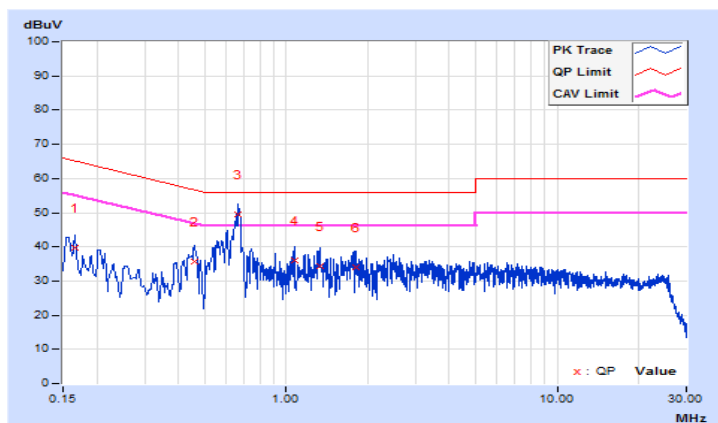
4.2.7 Test Results

Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	23°C, 66%RH
Tested by	Titan Hsu	Test Date	2020/6/19
Test Mode	Mode A		

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16600	9.80	29.95	16.03	39.75	25.83	65.16	55.16	-25.41	-29.33
2	0.45800	9.87	25.94	15.15	35.81	25.02	56.73	46.73	-20.92	-21.71
3	0.66600	9.89	39.74	30.91	49.63	40.80	56.00	46.00	-6.37	-5.20
4	1.07000	9.92	26.17	15.44	36.09	25.36	56.00	46.00	-19.91	-20.64
5	1.33000	9.94	24.24	14.69	34.18	24.63	56.00	46.00	-21.82	-21.37
6	1.81400	9.96	23.94	13.22	33.90	23.18	56.00	46.00	-22.10	-22.82

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

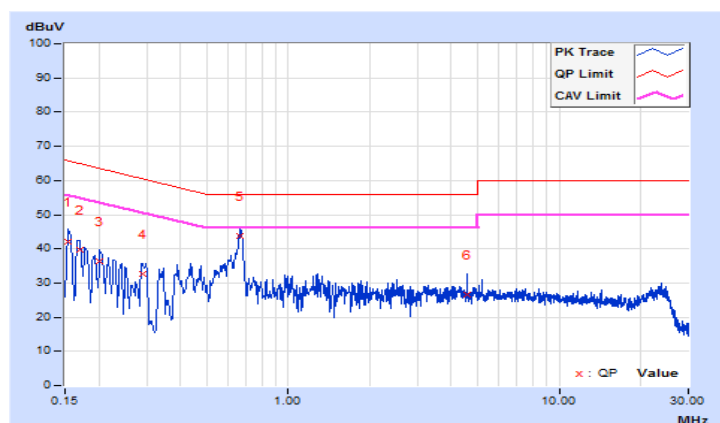


Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	23°C, 66%RH
Tested by	Titan Hsu	Test Date	2020/6/19
Test Mode	Mode A		

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15400	9.82	32.12	17.14	41.94	26.96	65.78	55.78	-23.84	-28.82
2	0.17000	9.82	29.96	15.59	39.78	25.41	64.96	54.96	-25.18	-29.55
3	0.20200	9.81	26.72	14.26	36.53	24.07	63.53	53.53	-27.00	-29.46
4	0.28906	9.85	22.69	7.89	32.54	17.74	60.55	50.55	-28.01	-32.81
5	0.66600	9.92	33.71	26.00	43.63	35.92	56.00	46.00	-12.37	-10.08
6	4.57400	10.10	16.62	7.37	26.72	17.47	56.00	46.00	-29.28	-28.53

Remarks:

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

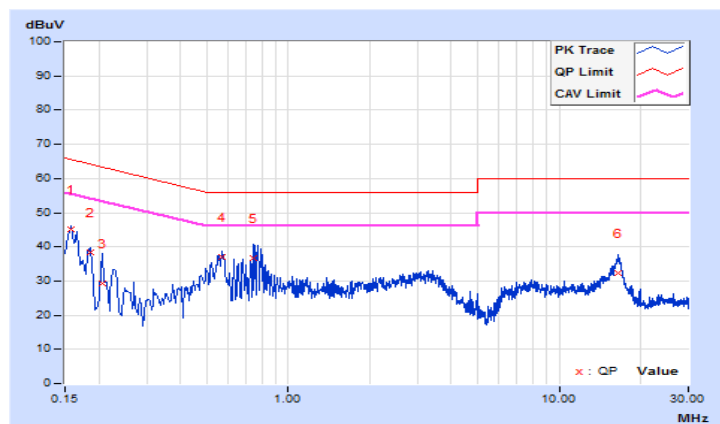


Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	23°C, 66%RH
Tested by	Titan Hsu	Test Date	2020/6/18
Test Mode	Mode B		

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15800	9.63	35.63	28.32	45.26	37.95	65.57	55.57	-20.31	-17.62
2	0.18568	9.62	28.66	21.86	38.28	31.48	64.23	54.23	-25.95	-22.75
3	0.20600	9.62	19.71	4.36	29.33	13.98	63.37	53.37	-34.04	-39.39
4	0.57000	9.66	27.28	19.05	36.94	28.71	56.00	46.00	-19.06	-17.29
5	0.74600	9.67	26.94	14.15	36.61	23.82	56.00	46.00	-19.39	-22.18
6	16.58200	9.90	22.40	13.83	32.30	23.73	60.00	50.00	-27.70	-26.27

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

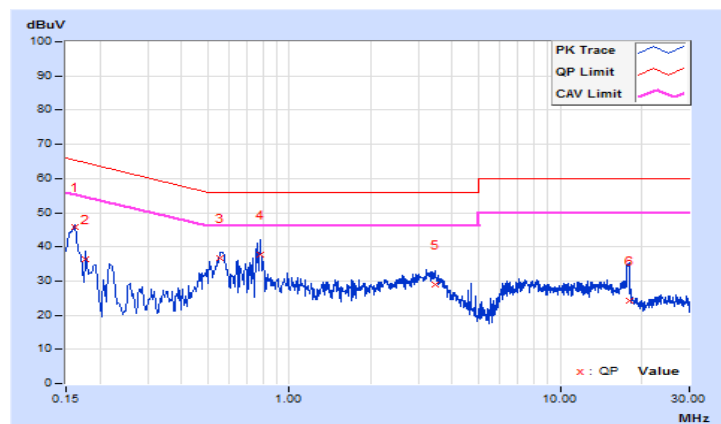


Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	23°C, 66%RH
Tested by	Titan Hsu	Test Date	2020/6/18
Test Mode	Mode B		

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16190	9.66	36.29	27.63	45.95	37.29	65.37	55.37	-19.42	-18.08
2	0.17800	9.65	26.88	13.12	36.53	22.77	64.58	54.58	-28.05	-31.81
3	0.55400	9.68	27.04	17.90	36.72	27.58	56.00	46.00	-19.28	-18.42
4	0.78600	9.69	28.13	15.54	37.82	25.23	56.00	46.00	-18.18	-20.77
5	3.46200	9.80	19.01	13.95	28.81	23.75	56.00	46.00	-27.19	-22.25
6	17.93400	10.01	14.24	8.06	24.25	18.07	60.00	50.00	-35.75	-31.93

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

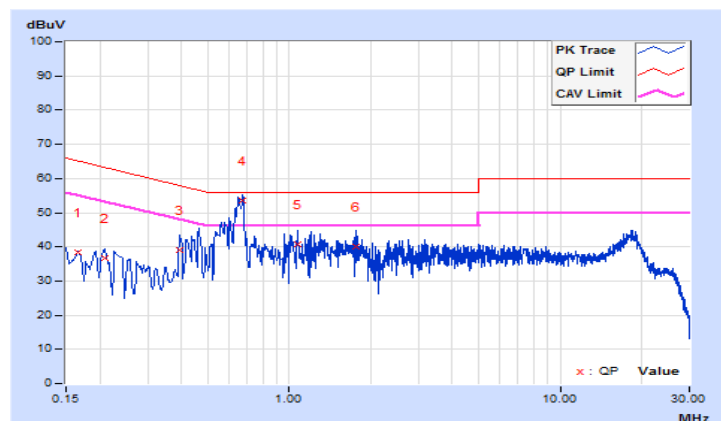


Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	23°C, 66%RH
Tested by	Titan Hsu	Test Date	2020/6/19
Test Mode	Mode C		

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16579	9.63	28.83	18.47	38.46	28.10	65.17	55.17	-26.71	-27.07
2	0.20905	9.62	26.94	18.27	36.56	27.89	63.24	53.24	-26.68	-25.35
3	0.39400	9.65	29.36	20.56	39.01	30.21	57.98	47.98	-18.97	-17.77
4	0.66985	9.66	43.95	35.32	53.61	44.98	56.00	46.00	-2.39	-1.02
5	1.07000	9.68	30.90	20.46	40.58	30.14	56.00	46.00	-15.42	-15.86
6	1.77400	9.72	30.28	20.52	40.00	30.24	56.00	46.00	-16.00	-15.76

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

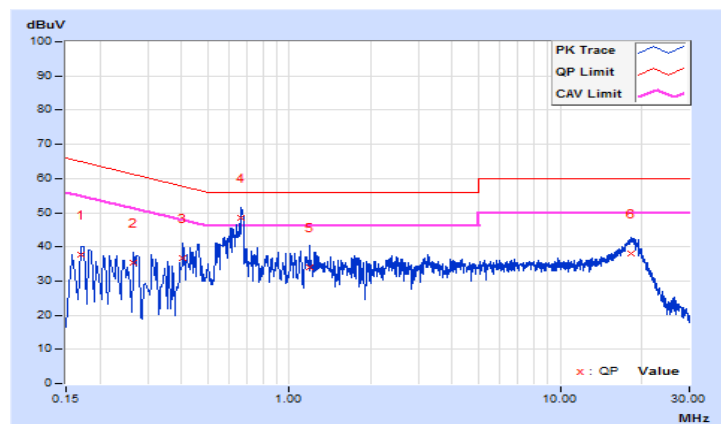


Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	23°C, 66%RH
Tested by	Titan Hsu	Test Date	2020/6/19
Test Mode	Mode C		

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.17000	9.65	28.14	13.88	37.79	23.53	64.96	54.96	-27.17	-31.43
2	0.26600	9.65	25.60	11.74	35.25	21.39	61.24	51.24	-25.99	-29.85
3	0.40600	9.67	26.97	15.02	36.64	24.69	57.73	47.73	-21.09	-23.04
4	0.66600	9.68	38.76	29.15	48.44	38.83	56.00	46.00	-7.56	-7.17
5	1.18600	9.71	24.35	12.40	34.06	22.11	56.00	46.00	-21.94	-23.89
6	18.39000	10.01	27.97	14.87	37.98	24.88	60.00	50.00	-22.02	-25.12

Remarks:

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



4.3 Transmit Power Measurement

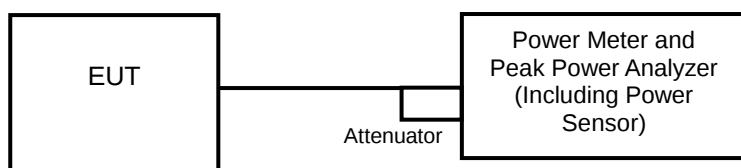
4.3.1 Limits of Transmit Power Measurement

Operation Band	EUT Category		Limit
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p $\leq$ 125 mW (21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
		Indoor Access Point	1 Watt (30 dBm)
	✓	Mobile and Portable client device	250 mW (24 dBm)
U-NII-2A		✓	250 mW (24 dBm) or 11 dBm + 10 log B*
U-NII-2C		✓	250 mW (24 dBm) or 11 dBm + 10 log B*
U-NII-3		✓	1 Watt (30 dBm)

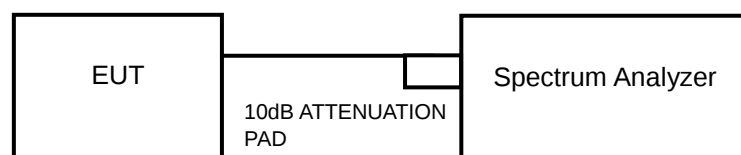
*B is the 26 dB emission bandwidth in megahertz

4.3.2 Test Setup

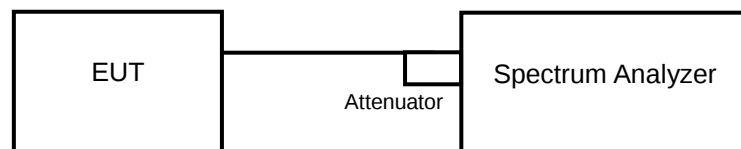
<Power Output Measurement>



or



<26 dB Bandwidth>



4.3.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.3.4 Test Procedure

Average Power Measurement

<802.11a, 802.11n (HT20), 802.11n (HT40), 802.11ac (VHT80)>

Method PM is 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.

<Straddle Channel>

- Set span to encompass the entire 26 dB EBW (or, alternatively, the entire 99 % occupied bandwidth) of the signal.
- Set sweep trigger to "free run".
- Set RBW = 1 MHz.
- Set VBW $\geq$ 3 MHz
- Number of points in sweep $\geq$ 2 Span / RBW.
- Sweep time $\leq$ (number of points in sweep) * T
- Using emission bandwidth to determine the frequency span for integration the channel bandwidth.
- Detector = RMS.
- Trace mode = max hold.
- Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.
- Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument's band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at 1 MHz intervals extending across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the spectrum

26 dB Bandwidth

- Set RBW = approximately 1 % of the emission bandwidth.
- Set the VBW $\geq$ 3 x RBW.
- Detector = Peak.
- Trace mode = max hold.
- Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1 %.

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

Power Output:

802.11a

Channel	Frequency (MHz)	Maximum Conducted Power (mW)	Maximum Conducted Power (dBm)	Power Limit (dBm)	Pass / Fail
36	5180	64.714	18.11	24	Pass
40	5200	105.682	20.24	24	Pass
48	5240	87.902	19.44	24	Pass
52	5260	114.025	20.57	24	Pass
60	5300	107.152	20.30	24	Pass
64	5320	66.834	18.25	24	Pass
100	5500	47.206	16.74	24	Pass
116	5580	110.408	20.43	24	Pass
140	5700	34.277	15.35	24	Pass
144	5720 (U-NII-2C)	32.734	15.15	24	Pass
144	5720 (U-NII-3)	5.984	7.77	30	Pass
149	5745	104.954	20.21	30	Pass
157	5785	96.605	19.85	30	Pass
165	5825	122.18	20.87	30	Pass

Note:

For U-NII-2A, U-NII-2C Band:

1. $11 \text{ dBm} + 10\log (37.76) = 26.77 \text{ dBm} > 24 \text{ dBm}$.
2. $11 \text{ dBm} + 10\log (37.67) = 26.76 \text{ dBm} > 24 \text{ dBm}$.
3. $11 \text{ dBm} + 10\log (27.94) = 25.46 \text{ dBm} > 24 \text{ dBm}$.
4. $11 \text{ dBm} + 10\log (22.11) = 24.45 \text{ dBm} > 24 \text{ dBm}$.
5. $11 \text{ dBm} + 10\log (43.25) = 27.36 \text{ dBm} > 24 \text{ dBm}$.
6. $11 \text{ dBm} + 10\log (21.67) = 24.36 \text{ dBm} > 24 \text{ dBm}$.
7. $11 \text{ dBm} + 10\log (26.04) = 25.16 \text{ dBm} > 24 \text{ dBm}$.

802.11n (HT20)

Channel	Frequency (MHz)	Maximum Conducted Power (mW)	Maximum Conducted Power (dBm)	Power Limit (dBm)	Pass / Fail
36	5180	63.387	18.02	24	Pass
40	5200	117.761	20.71	24	Pass
48	5240	83.56	19.22	24	Pass
52	5260	115.08	20.61	24	Pass
60	5300	120.504	20.81	24	Pass
64	5320	83.368	19.21	24	Pass
100	5500	53.827	17.31	24	Pass
116	5580	112.98	20.53	24	Pass
140	5700	35.4	15.49	24	Pass
144	5720 (U-NII-2C)	15.959	12.03	24	Pass
144	5720 (U-NII-3)	3.758	5.75	30	Pass
149	5745	103.276	20.14	30	Pass
157	5785	102.329	20.10	30	Pass
165	5825	109.144	20.38	30	Pass

Note:

For U-NII-2A, U-NII-2C Band:

1. $11 \text{ dBm} + 10\log (43.03) = 27.34 \text{ dBm} > 24 \text{ dBm}$.
2. $11 \text{ dBm} + 10\log (45.19) = 27.55 \text{ dBm} > 24 \text{ dBm}$.
3. $11 \text{ dBm} + 10\log (38.50) = 26.85 \text{ dBm} > 24 \text{ dBm}$.
4. $11 \text{ dBm} + 10\log (27.42) = 25.38 \text{ dBm} > 24 \text{ dBm}$.
5. $11 \text{ dBm} + 10\log (48.18) = 27.83 \text{ dBm} > 24 \text{ dBm}$.
6. $11 \text{ dBm} + 10\log (25.35) = 25.04 \text{ dBm} > 24 \text{ dBm}$.
7. $11 \text{ dBm} + 10\log (29.23) = 25.66 \text{ dBm} > 24 \text{ dBm}$.

802.11n (HT40)

Channel	Frequency (MHz)	Maximum Conducted Power (mW)	Maximum Conducted Power (dBm)	Power Limit (dBm)	Pass / Fail
38	5190	44.875	16.52	24	Pass
46	5230	73.282	18.65	24	Pass
54	5270	120.504	20.81	24	Pass
62	5310	32.509	15.12	24	Pass
102	5510	36.392	15.61	24	Pass
110	5550	118.577	20.74	24	Pass
134	5670	45.186	16.55	24	Pass
142	5710 (U-NII-2C)	12.218	10.87	24	Pass
142	5710 (U-NII-3)	1.042	0.18	30	Pass
151	5755	105.196	20.22	30	Pass
159	5795	97.051	19.87	30	Pass

Note:

For U-NII-2A, U-NII-2C Band:

1. $11 \text{ dBm} + 10\log (98.78) = 30.95 \text{ dBm} > 24 \text{ dBm}$.
2. $11 \text{ dBm} + 10\log (46.32) = 27.66 \text{ dBm} > 24 \text{ dBm}$.
3. $11 \text{ dBm} + 10\log (45.05) = 27.54 \text{ dBm} > 24 \text{ dBm}$.
4. $11 \text{ dBm} + 10\log (97.27) = 30.88 \text{ dBm} > 24 \text{ dBm}$.
5. $11 \text{ dBm} + 10\log (65.53) = 29.16 \text{ dBm} > 24 \text{ dBm}$.
6. $11 \text{ dBm} + 10\log (61.06) = 28.86 \text{ dBm} > 24 \text{ dBm}$.

802.11ac (VHT80)

Channel	Frequency (MHz)	Maximum Conducted Power (mW)	Maximum Conducted Power (dBm)	Power Limit (dBm)	Pass / Fail
42	5210	37.584	15.75	24	Pass
58	5290	34.514	15.38	24	Pass
106	5530	37.931	15.79	24	Pass
122	5610	78.524	18.95	24	Pass
138	5690 (U-NII-2C)	3.17	5.01	24	Pass
138	5690 (U-NII-3)	0.1242	-9.06	30	Pass
155	5775	101.158	20.05	30	Pass

Note:

For U-NII-2A, U-NII-2C Band:

1. $11 \text{ dBm} + 10\log (81.57) = 30.12 \text{ dBm} > 24 \text{ dBm}$.
2. $11 \text{ dBm} + 10\log (82.96) = 30.19 \text{ dBm} > 24 \text{ dBm}$.
3. $11 \text{ dBm} + 10\log (143.51) = 32.57 \text{ dBm} > 24 \text{ dBm}$.
4. $11 \text{ dBm} + 10\log (126.45) = 32.02 \text{ dBm} > 24 \text{ dBm}$.

26 dB Bandwidth:
802.11a

Channel	Frequency (MHz)	26 dBc Bandwidth (MHz)
36	5180	23.53
40	5200	34.16
48	5240	32.35
52	5260	37.76
60	5300	37.67
64	5320	27.94
100	5500	22.11
116	5580	43.25
140	5700	21.67
144	5720 (U-NII-2C)	26.04
144	5720 (U-NII-3)	15.53

802.11n (HT20)

Channel	Frequency (MHz)	26 dBc Bandwidth (MHz)
36	5180	27.93
40	5200	40.93
48	5240	38.47
52	5260	43.03
60	5300	45.19
64	5320	38.50
100	5500	27.42
116	5580	48.18
140	5700	25.35
144	5720 (U-NII-2C)	29.23
144	5720 (U-NII-3)	19.68

802.11n (HT40)

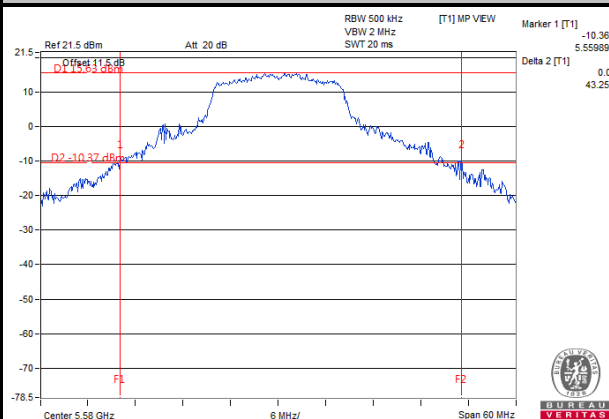
Channel	Frequency (MHz)	26 dBc Bandwidth (MHz)
38	5190	50.11
46	5230	80.06
54	5270	98.78
62	5310	46.32
102	5510	45.05
110	5550	97.27
134	5670	65.53
142	5710 (U-NII-2C)	61.06
142	5710 (U-NII-3)	33.20

802.11ac (VHT80)

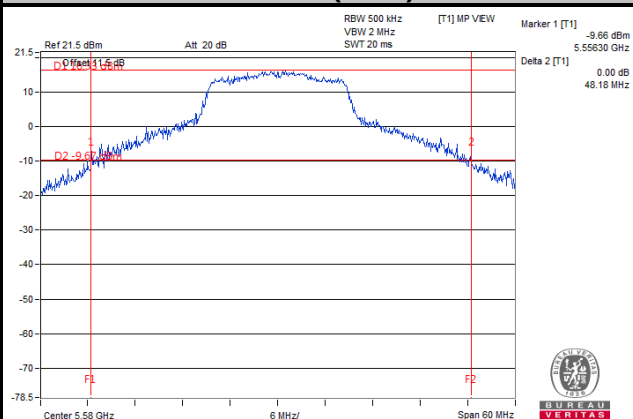
Channel	Frequency (MHz)	26 dBc Bandwidth (MHz)
42	5210	83.80
58	5290	81.57
106	5530	82.96
122	5610	143.51
138	5690 (U-NII-2C)	126.45
138	5690 (U-NII-3)	63.48

Spectrum Plot of Worst Value

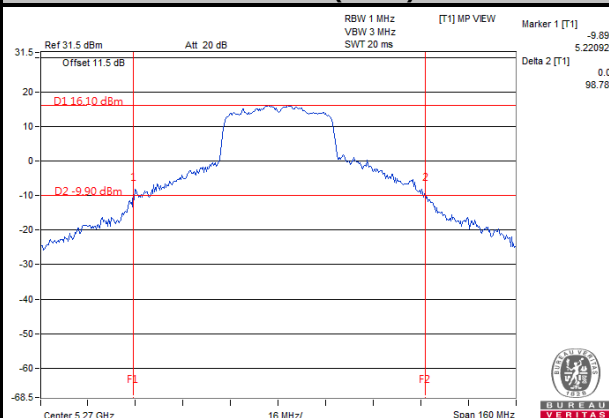
802.11a



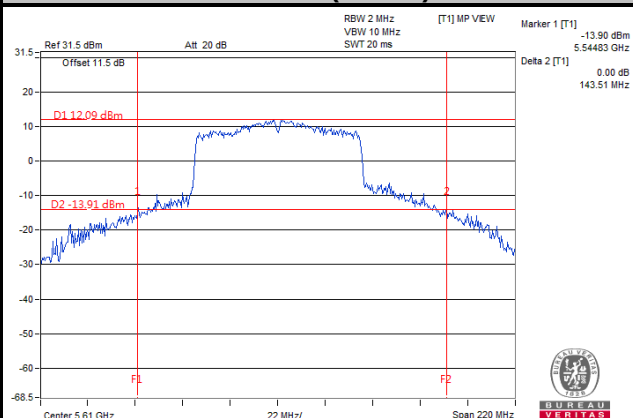
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



EUT MAXIMUM CONDUCTED POWER

802.11a

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	114.025	20.57
5470~5725	110.408	20.43

Note: Manufacturer provides Transmit Power Control description to meet this requirement.

802.11n (HT20)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	120.504	20.81
5470~5725	112.98	20.53

Note: Manufacturer provides Transmit Power Control description to meet this requirement.

802.11n (HT40)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	120.504	20.81
5470~5725	118.577	20.74

Note: Manufacturer provides Transmit Power Control description to meet this requirement.

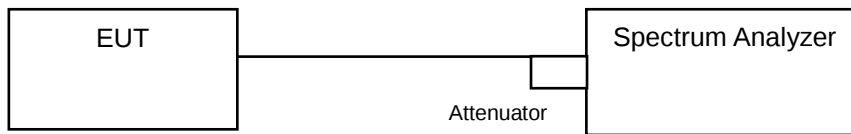
802.11ac (VHT80)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	34.514	15.38
5470~5725	78.524	18.95

Note: Manufacturer provides Transmit Power Control description to meet this requirement.

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 SAMPLE. 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 Test Results

802.11a

Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)
36	5180	17.16
40	5200	20.16
48	5240	18.24
52	5260	21.60
60	5300	21.48
64	5320	17.40
100	5500	16.92
116	5580	25.56
140	5700	17.04
144	5720 (U-NII-2C)	17.72
144	5720 (U-NII-3)	7.00
149	5745	28.18
157	5785	27.79
165	5825	32.64

802.11n (HT20)

Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)
36	5180	18.12
40	5200	22.80
48	5240	19.08
52	5260	22.44
60	5300	23.64
64	5320	18.60
100	5500	18.00
116	5580	28.56
140	5700	18.00
144	5720 (U-NII-2C)	20.00
144	5720 (U-NII-3)	9.88
149	5745	28.75
157	5785	29.13
165	5825	28.75

802.11n (HT40)

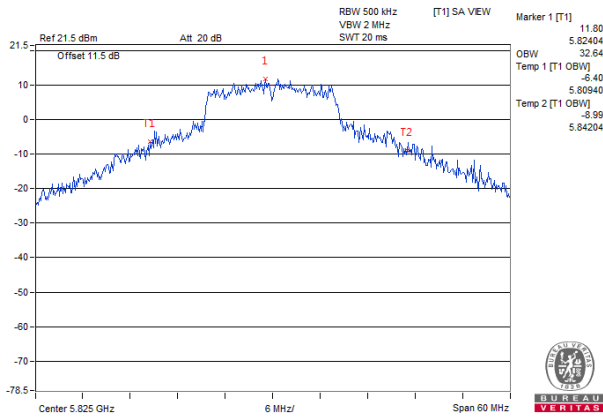
Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)
38	5190	36.48
46	5230	37.92
54	5270	46.08
62	5310	36.48
102	5510	36.48
110	5550	57.36
134	5670	36.72
142	5710 (U-NII-2C)	41.64
142	5710 (U-NII-3)	13.32
151	5755	58.80
159	5795	58.08

802.11ac (VHT80)

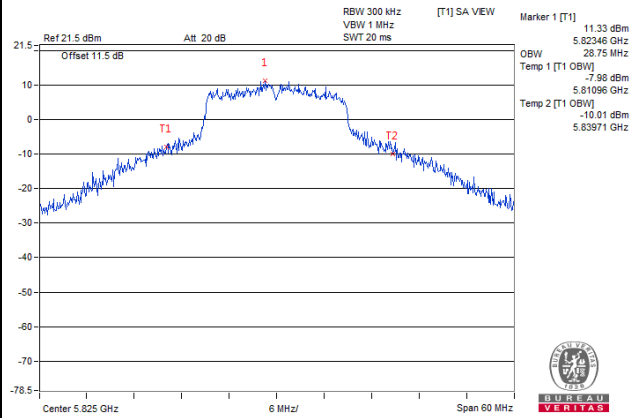
Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)
42	5210	75.84
58	5290	75.36
106	5530	75.36
122	5610	81.60
138	5690 (U-NII-2C)	88.28
138	5690 (U-NII-3)	21.16
155	5775	111.36

Spectrum Plot of Worst Value

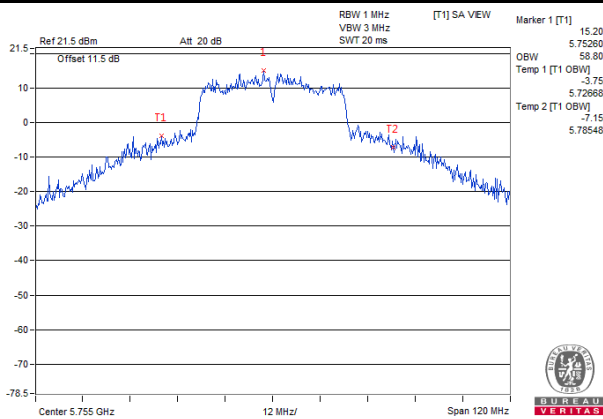
802.11a



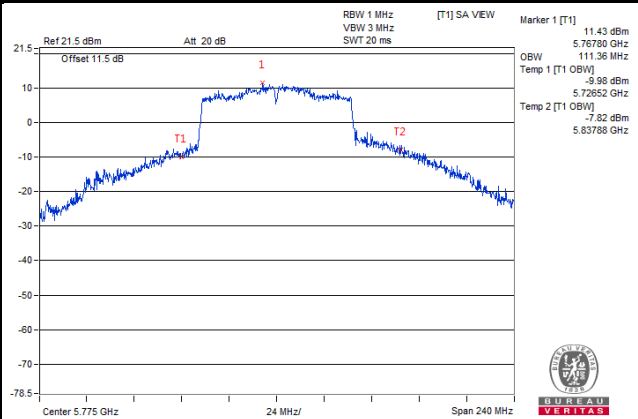
802.11n (HT20)



802.11n (HT40)



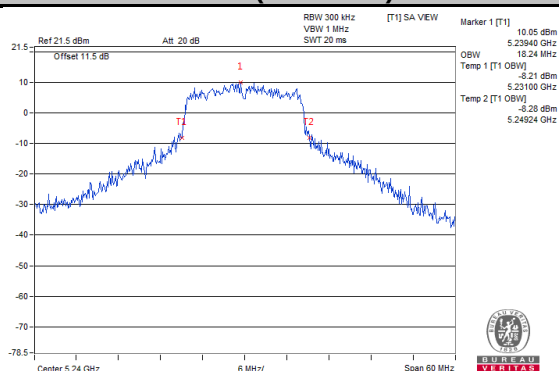
802.11ac (VHT80)



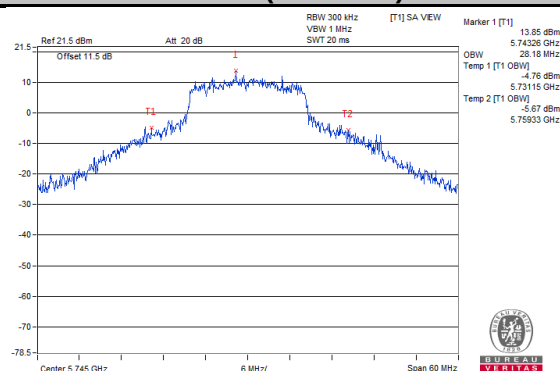
Spectrum Plot for Nearby DFS Band

802.11a

Ch 48 (5240 MHz)

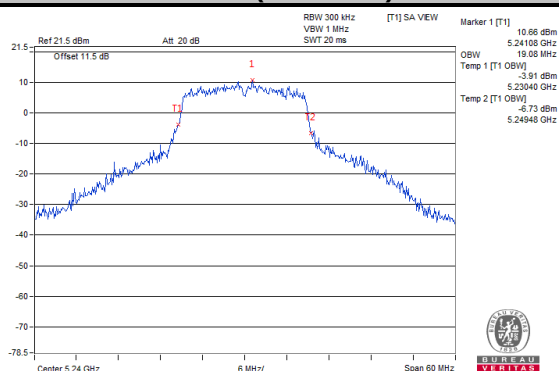


Ch 149 (5745 MHz)

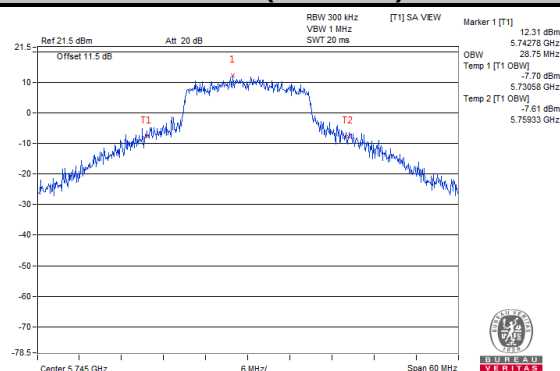


802.11n (HT20)

Ch 48 (5240 MHz)

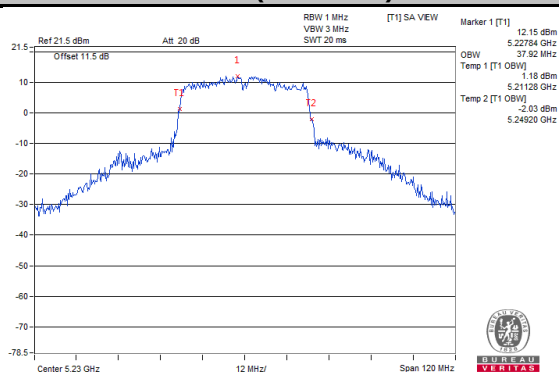


Ch 149 (5745 MHz)

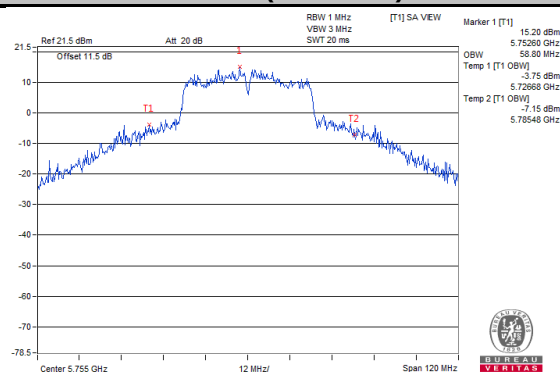


802.11n (HT40)

Ch 46 (5230 MHz)

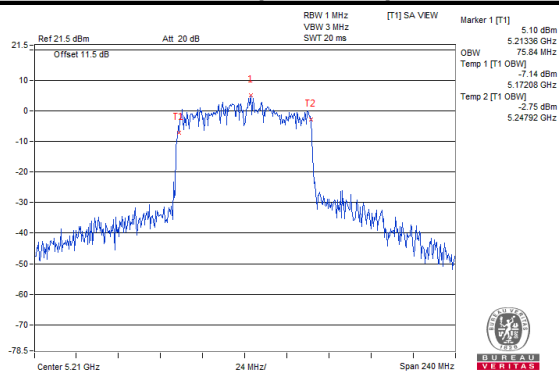


Ch 151 (5755 MHz)

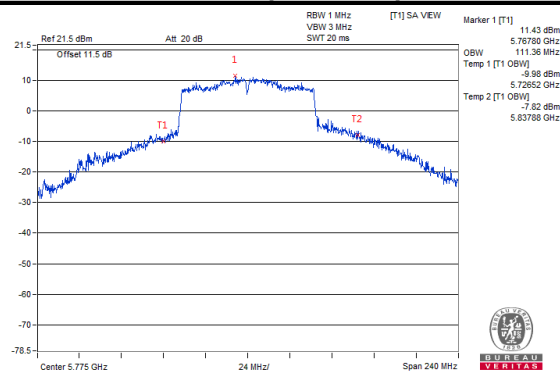


802.11ac (VHT80)

Ch 42 (5210 MHz)



Ch 155 (5775 MHz)

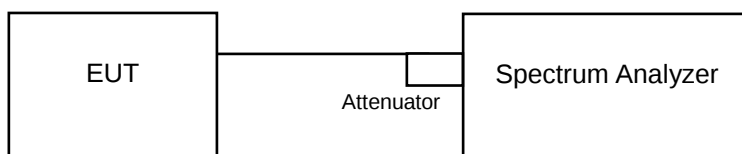


4.5 Peak Power Spectral Density Measurement

4.5.1 Limits of Peak Power Spectral Density Measurement

Operation Band	EUT Category		Limit
U-NII-1		Outdoor Access Point	17 dBm/MHz
		Fixed point-to-point Access Point	
		Indoor Access Point	
	√	Mobile and Portable client device	11 dBm/MHz
U-NII-2A		√	11 dBm/MHz
U-NII-2C		√	11 dBm/MHz
U-NII-3		√	30 dBm/500 kHz

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

For U-NII-1, U-NII-2A, U-NII-2C band:

Using method SA-2 Duty cycle <98%

1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW = 1 MHz, Set VBW ≥ 3 RBW, Detector = RMS
3. Sweep time = auto, trigger set to "free run".
4. Trace average at least 100 traces in power averaging mode.
5. Record the max value and add 10 log (1/duty cycle)

※ For U-NII-3: with duty cycle & Duty cycle <98 %

1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW = 300 kHz, Set VBW ≥ 1 RBW, Detector = RMS
3. Use the peak marker function to determine the maximum power level in any 300 kHz band segment within the fundamental EBW.
4. Scale the observed power level to an equivalent value in 500 kHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where $BWCF = 10\log(500 \text{ kHz} / 300 \text{ kHz})$.
5. Sweep time = auto, trigger set to "free run".
6. Trace average at least 100 traces in power averaging mode.
7. Record the max value and add 10 log (1/duty cycle)

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

For U-NII-1, U-NII-2A, U-NII-2C Band

802.11a

Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor (dB)	PSD with Duty Factor (dBm/MHz)	Maximum Limit (dBm/MHz)	Pass / Fail
36	5180	5.22	0.30	5.52	11	Pass
40	5200	7.23	0.30	7.53	11	Pass
48	5240	5.88	0.30	6.18	11	Pass
52	5260	7.52	0.30	7.82	11	Pass
60	5300	7.69	0.30	7.99	11	Pass
64	5320	5.36	0.30	5.66	11	Pass
100	5500	4.59	0.30	4.89	11	Pass
116	5580	8.57	0.30	8.87	11	Pass
140	5700	3.20	0.30	3.50	11	Pass
144	5720 (U-NII-2C)	7.26	0.30	7.56	11	Pass

Note: Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT20)

Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor (dB)	PSD with Duty Factor (dBm/MHz)	Maximum Limit (dBm/MHz)	Pass / Fail
36	5180	4.56	0.32	4.88	11	Pass
40	5200	7.43	0.32	7.75	11	Pass
48	5240	5.34	0.32	5.66	11	Pass
52	5260	7.11	0.32	7.43	11	Pass
60	5300	7.82	0.32	8.14	11	Pass
64	5320	5.85	0.32	6.17	11	Pass
100	5500	4.59	0.32	4.91	11	Pass
116	5580	8.76	0.32	9.08	11	Pass
140	5700	3.32	0.32	3.64	11	Pass
144	5720 (U-NII-2C)	7.45	0.32	7.77	11	Pass

Note: Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT40)

Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor (dB)	PSD with Duty Factor (dBm/MHz)	Maximum Limit (dBm/MHz)	Pass / Fail
38	5190	0.07	0.72	0.79	11	Pass
46	5230	1.48	0.72	2.20	11	Pass
54	5270	3.77	0.72	4.49	11	Pass
62	5310	-1.29	0.72	-0.57	11	Pass
102	5510	-1.22	0.72	-0.50	11	Pass
110	5550	4.93	0.72	5.65	11	Pass
134	5670	0.82	0.72	1.54	11	Pass
142	5710 (U-NII-2C)	3.26	0.72	3.98	11	Pass

Note: Refer to section 3.3 for duty cycle spectrum plot.

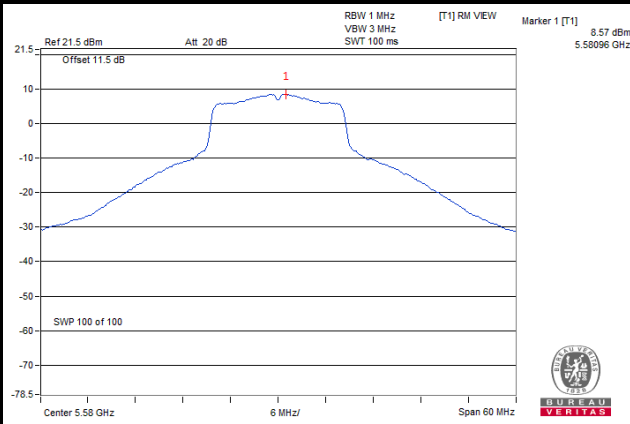
802.11ac (VHT80):

Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor (dB)	PSD with Duty Factor (dBm/MHz)	Maximum Limit (dBm/MHz)	Pass / Fail
42	5210	-5.74	1.18	-4.56	11	Pass
58	5290	-5.46	1.18	-4.28	11	Pass
106	5530	-4.98	1.18	-3.80	11	Pass
122	5610	0.17	1.18	1.35	11	Pass
138	5690 (U-NII-2C)	0.19	1.18	1.37	11	Pass

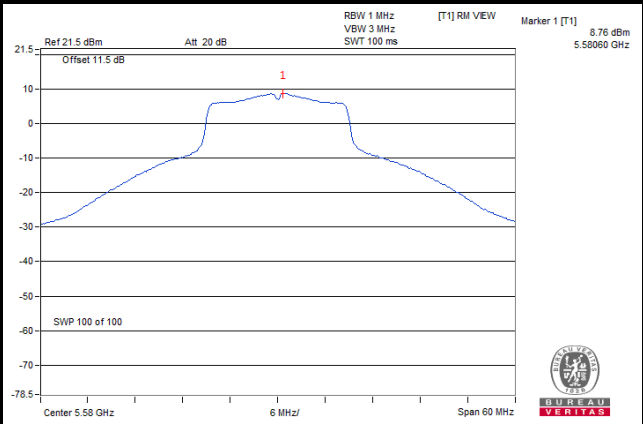
Note: Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

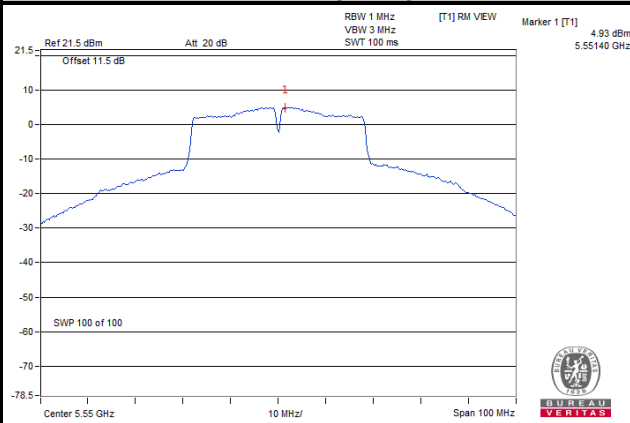
802.11a



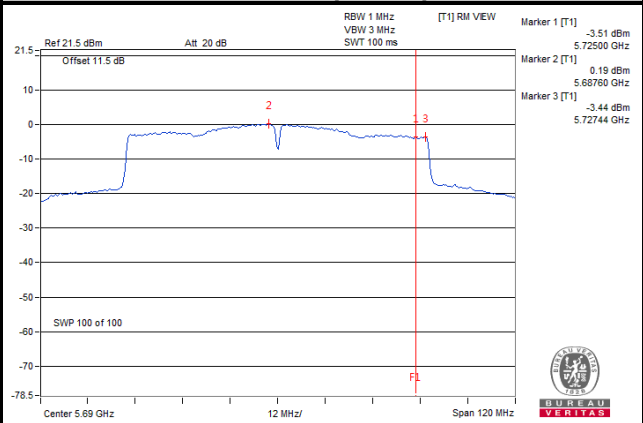
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



For U-NII-3 Band

802.11a

Channel	Frequency (MHz)	PSD w/o Duty Factor		Duty Factor (dB)	PSD with Duty Factor (dBm/500 kHz)	Limit (dBm/500 kHz)	Pass / Fail
		(dBm/300 kHz)	(dBm/500 kHz)				
144	5720 (U-NII-3)	-4.59	-2.37	0.30	-2.07	30	Pass
149	5745	-0.11	2.11	0.30	2.41	30	Pass
157	5785	-1.44	0.78	0.30	1.08	30	Pass
165	5825	-2.8	-0.58	0.30	-0.28	30	Pass

Note: Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT20)

Channel	Frequency (MHz)	PSD w/o Duty Factor		Duty Factor (dB)	PSD with Duty Factor (dBm/500 kHz)	Limit (dBm/500 kHz)	Pass / Fail
		(dBm/300 kHz)	(dBm/500 kHz)				
144	5720 (U-NII-3)	-4.13	-1.91	0.32	-1.59	30	Pass
149	5745	-2.36	-0.14	0.32	0.18	30	Pass
157	5785	-2.21	0.01	0.32	0.33	30	Pass
165	5825	-2.45	-0.23	0.32	0.09	30	Pass

Note: Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT40)

Channel	Frequency (MHz)	PSD w/o Duty Factor		Duty Factor (dB)	PSD with Duty Factor (dBm/500 kHz)	Limit (dBm/500 kHz)	Pass / Fail
		(dBm/300 kHz)	(dBm/500 kHz)				
142	5710 (U-NII-3)	-8.44	-6.22	0.72	-5.5	30	Pass
151	5755	-6.71	-4.49	0.72	-3.77	30	Pass
159	5795	-7.43	-5.21	0.72	-4.49	30	Pass

Note: Refer to section 3.3 for duty cycle spectrum plot.

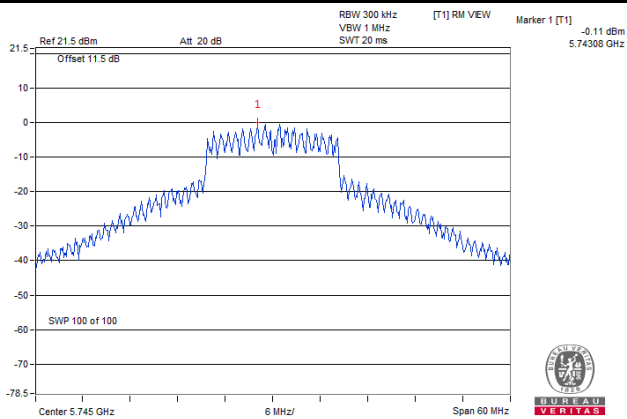
802.11ac (VHT80)

Channel	Frequency (MHz)	PSD w/o Duty Factor		Duty Factor (dB)	PSD with Duty Factor (dBm/500 kHz)	Limit (dBm/500 kHz)	Pass / Fail
		(dBm/300 kHz)	(dBm/500 kHz)				
138	5690 (U-NII-3)	-13.73	-11.51	1.18	-10.33	30	Pass
155	5775	-8.5	-6.28	1.18	-5.1	30	Pass

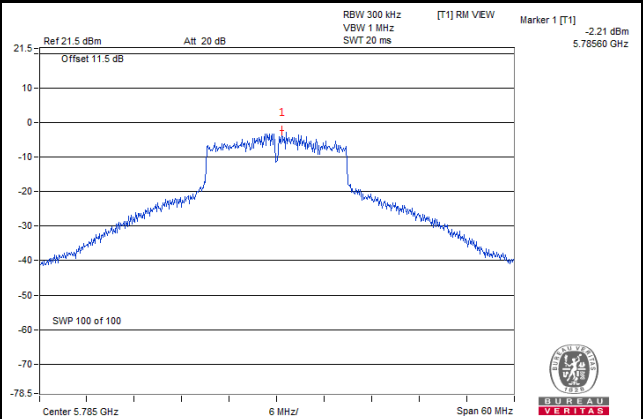
Note: Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

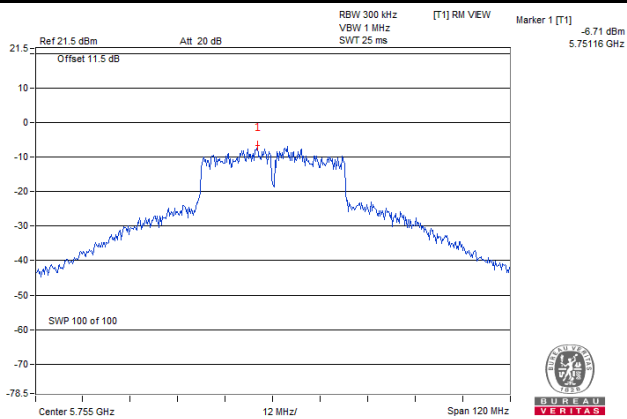
802.11a



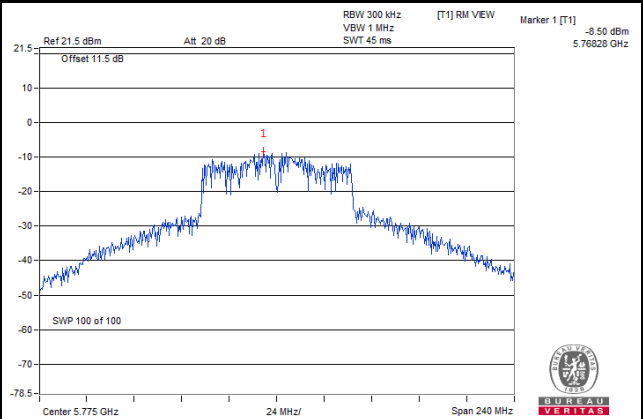
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)

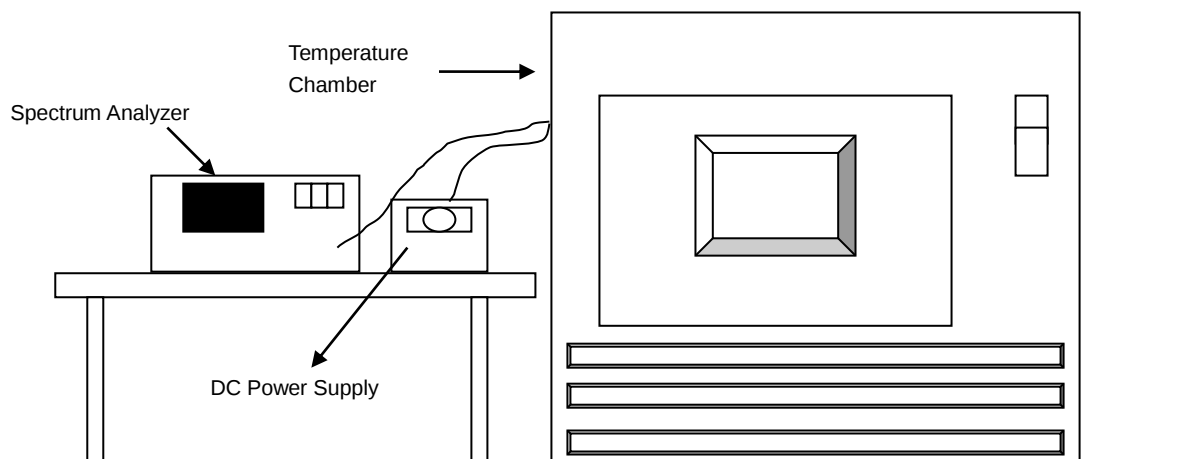


4.6 Frequency Stability

4.6.1 Limit of Frequency Stability Measurement

The frequency of the carrier signal shall be maintained within band of operation.

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

- The EUT was placed inside the environmental test chamber and powered by nominal DC voltage.
- Turn the EUT on and couple its output to a spectrum analyzer.
- Turn the EUT off and set the chamber to the highest temperature specified.
- Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 Minutes.
- Repeat step (d) with the temperature chamber set to the next desired temperature until measurements down to the lowest specified temperature have been completed.
- The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 Minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

4.6.5 Deviation from Test Standard

No deviation.

4.6.6 EUT Operating Condition

Set the EUT transmit at un-modulation mode to test frequency stability.

4.6.7 Test Results

Frequency Stability Versus Temp.									
Operating Frequency: 5180 MHz									
Temp. (°C)	Power Supply (Vdc)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)
45	5	5180.0176	PASS	5180.0213	PASS	5180.0184	PASS	5180.0213	PASS
40	5	5179.9904	PASS	5179.9907	PASS	5179.9901	PASS	5179.9909	PASS
30	5	5179.9999	PASS	5179.9985	PASS	5179.9975	PASS	5180.0013	PASS
20	5	5180.0165	PASS	5180.017	PASS	5180.0166	PASS	5180.017	PASS
10	5	5180.0091	PASS	5180.0084	PASS	5180.0111	PASS	5180.0095	PASS
0	5	5180.0033	PASS	5180.0046	PASS	5180.0028	PASS	5180.0011	PASS

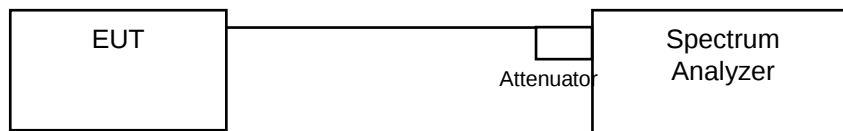
Frequency Stability Versus Voltage									
Operating Frequency: 5180 MHz									
Temp. (°C)	Power Supply (Vdc)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)
20	5.75	5180.0167	PASS	5180.0165	PASS	5180.0164	PASS	5180.0176	PASS
	5	5180.0165	PASS	5180.017	PASS	5180.0166	PASS	5180.017	PASS
	4.25	5180.0156	PASS	5180.0162	PASS	5180.0162	PASS	5180.0175	PASS

4.7 6 dB Bandwidth Measurement

4.7.1 Limits of 6 dB Bandwidth Measurement

The minimum of 6 dB Bandwidth Measurement is 0.5 MHz.

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

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

4.7.5 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

802.11a

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
144	5720 (U-NII-3)	2.85	0.5	Pass
149	5745	16.08	0.5	Pass
157	5785	15.84	0.5	Pass
165	5825	16.12	0.5	Pass

802.11n (HT20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
144	5720 (U-NII-3)	3.47	0.5	Pass
149	5745	16.95	0.5	Pass
157	5785	17.33	0.5	Pass
165	5825	17.34	0.5	Pass

802.11n (HT40)

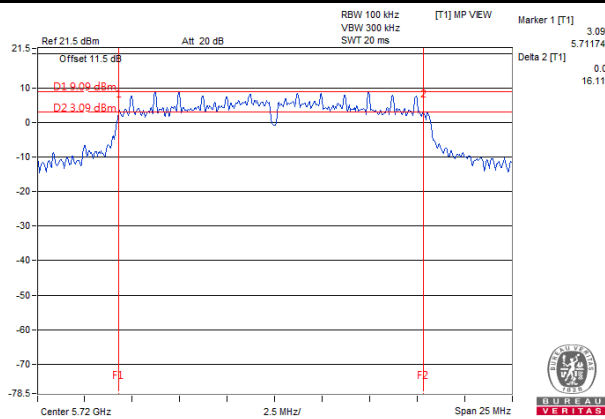
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
142	5710 (U-NII-3)	2.91	0.5	Pass
151	5755	35.80	0.5	Pass
159	5795	36.13	0.5	Pass

802.11ac (VHT80)

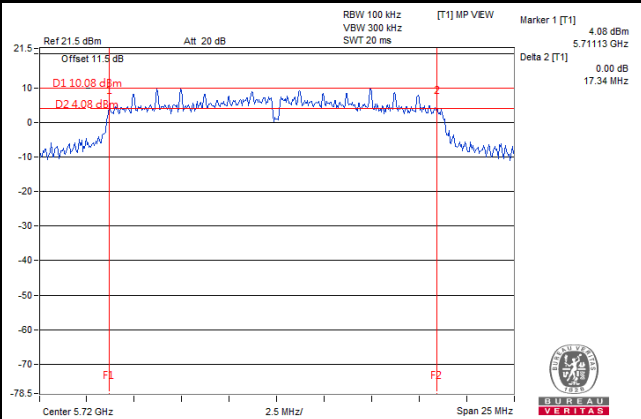
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
138	5690 (U-NII-3)	2.70	0.5	Pass
155	5775	75.53	0.5	Pass

Spectrum Plot of Worst Value

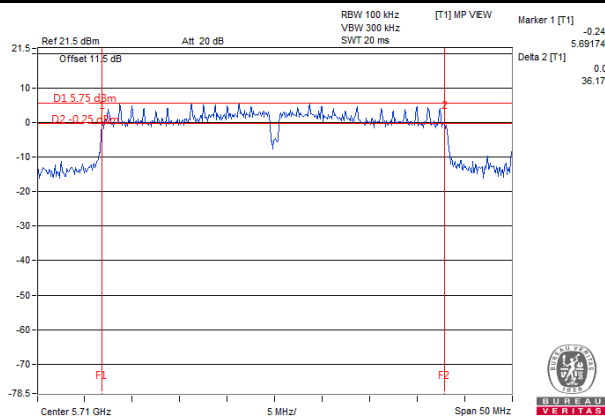
802.11a



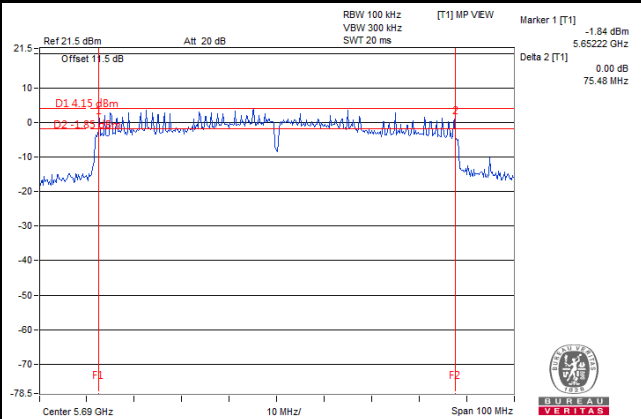
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Note:

For Ch144 (UNII-3 Band): The 6 dB bandwidth above 5725 MHz = Marker 1 + Delta 2 – 5725 MHz

For Ch142 (UNII-3 Band): The 6 dB bandwidth above 5725 MHz = Marker 1 + Delta 2 – 5725 MHz

For Ch138 (UNII-3 Band): The 6 dB bandwidth above 5725 MHz = Marker 1 + Delta 2 – 5725 MHz

5 Pictures of Test Arrangements

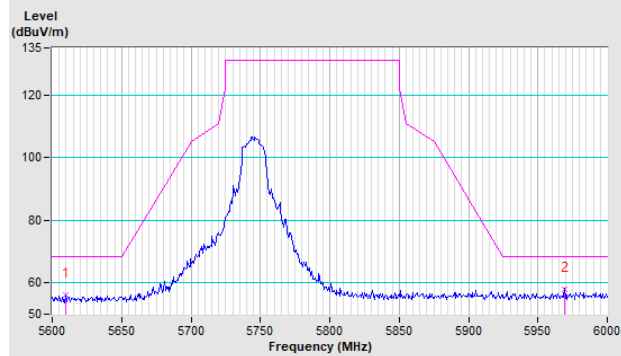
Please refer to the attached file (Test Setup Photo).

Annex A- Radiated Out of Band Emission (OOBE) Measurement (For U-NII-3 band)

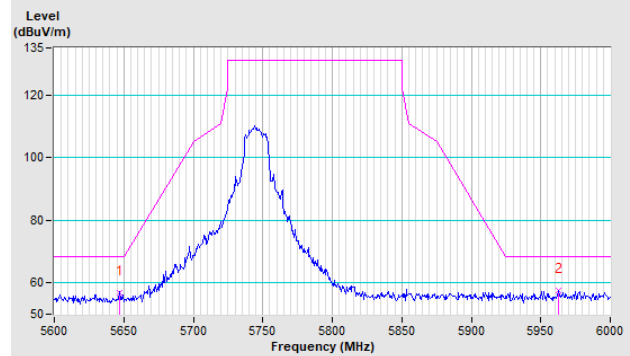
802.11a

CH 149 5745 MHz

Horizontal

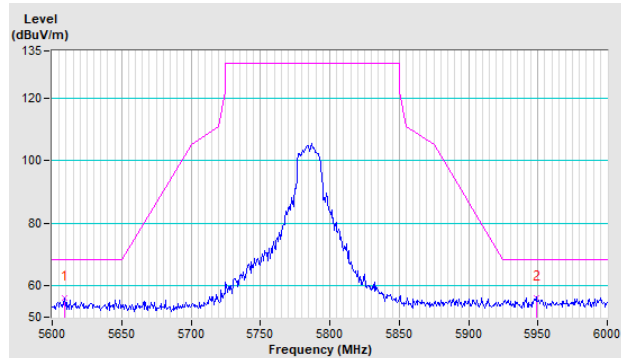


Vertical

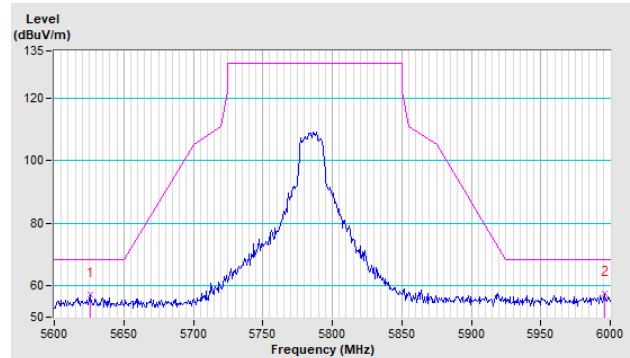


CH 157 5785 MHz

Horizontal

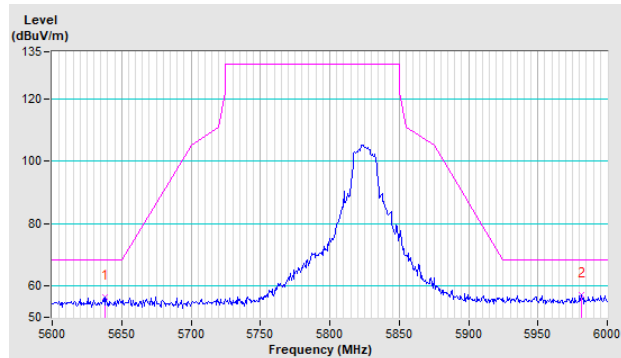


Vertical

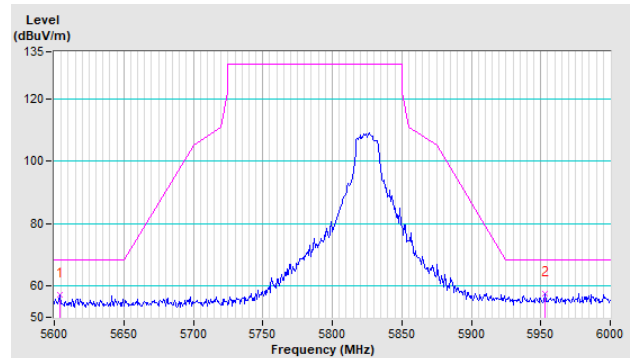


CH 165 5825 MHz

Horizontal



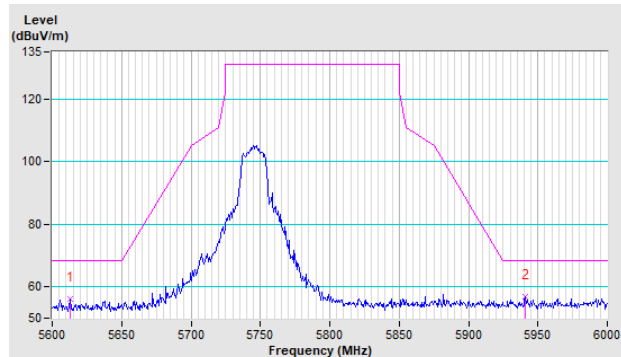
Vertical



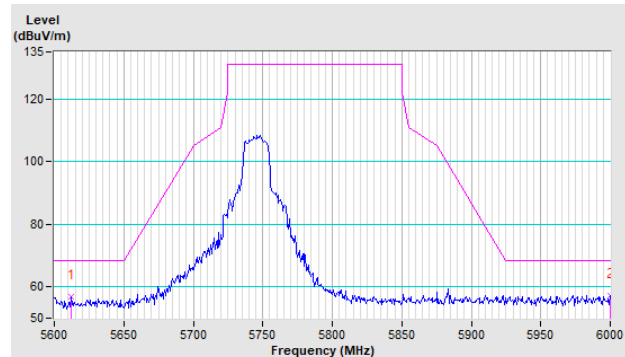
802.11n (HT20)

CH 149 5745 MHz

Horizontal

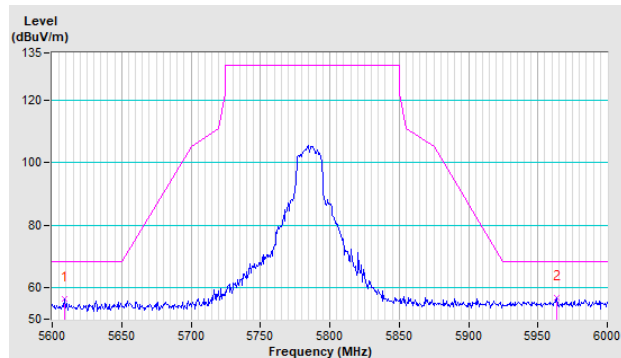


Vertical

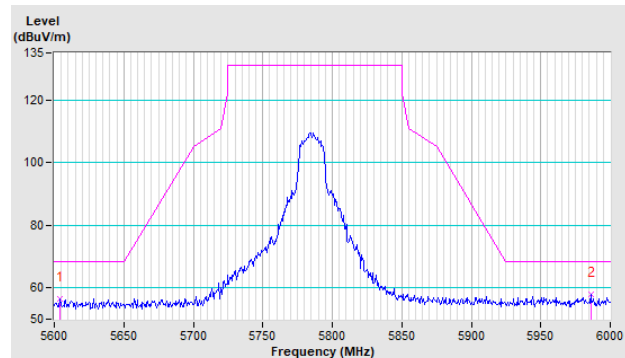


CH 157 5785 MHz

Horizontal

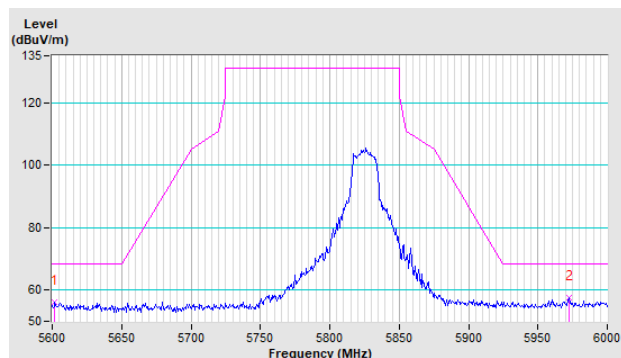


Vertical

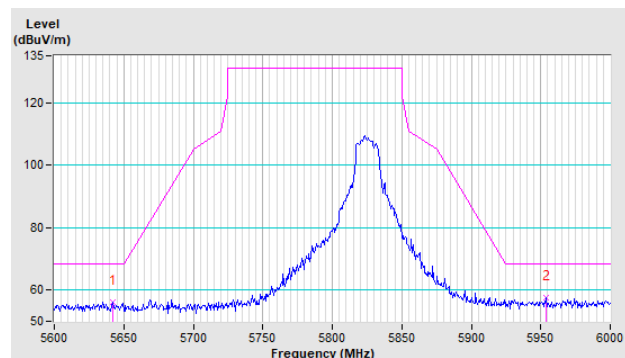


CH 165 5825 MHz

Horizontal



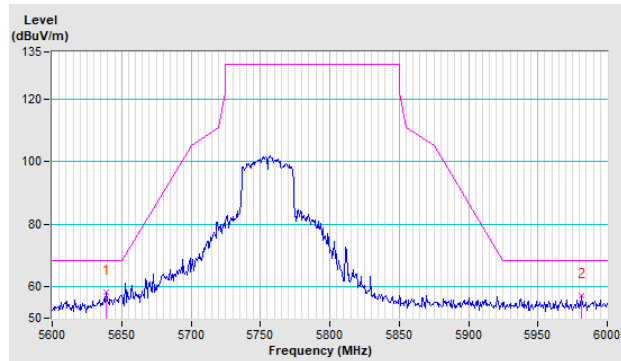
Vertical



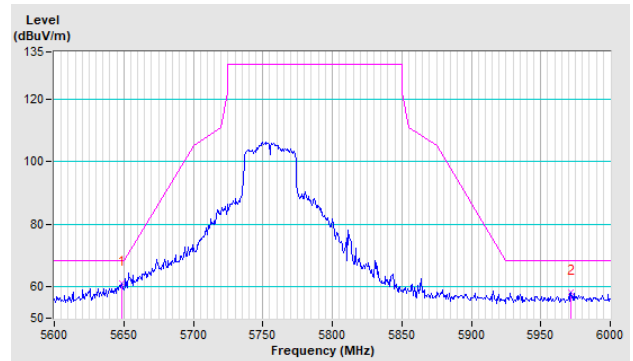
802.11n (HT40)

CH 151 5755 MHz

Horizontal

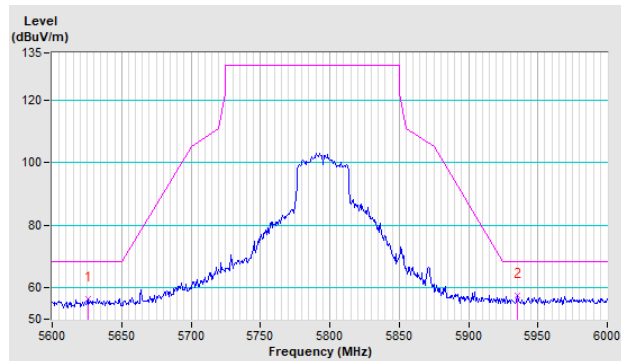


Vertical

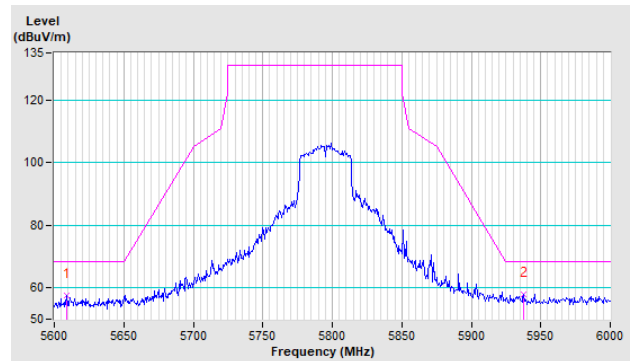


CH 159 5795 MHz

Horizontal



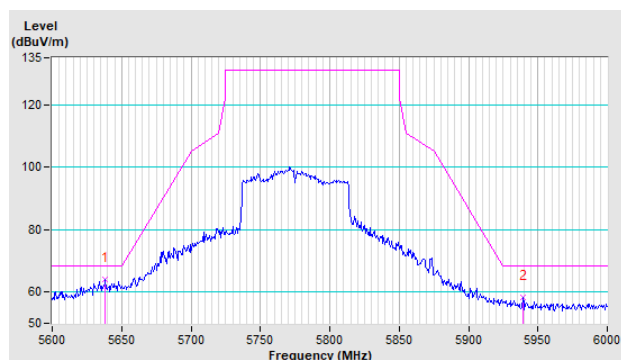
Vertical



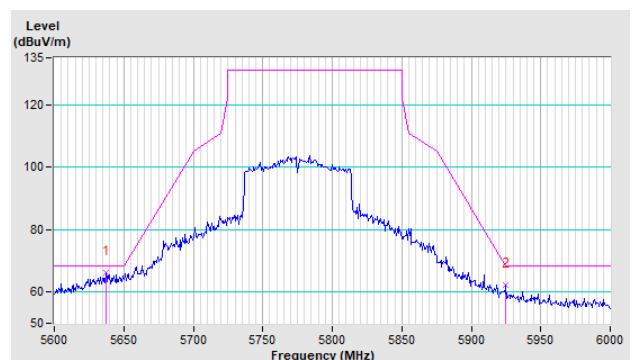
802.11ac (VHT80)

CH 155 5775 MHz

Horizontal

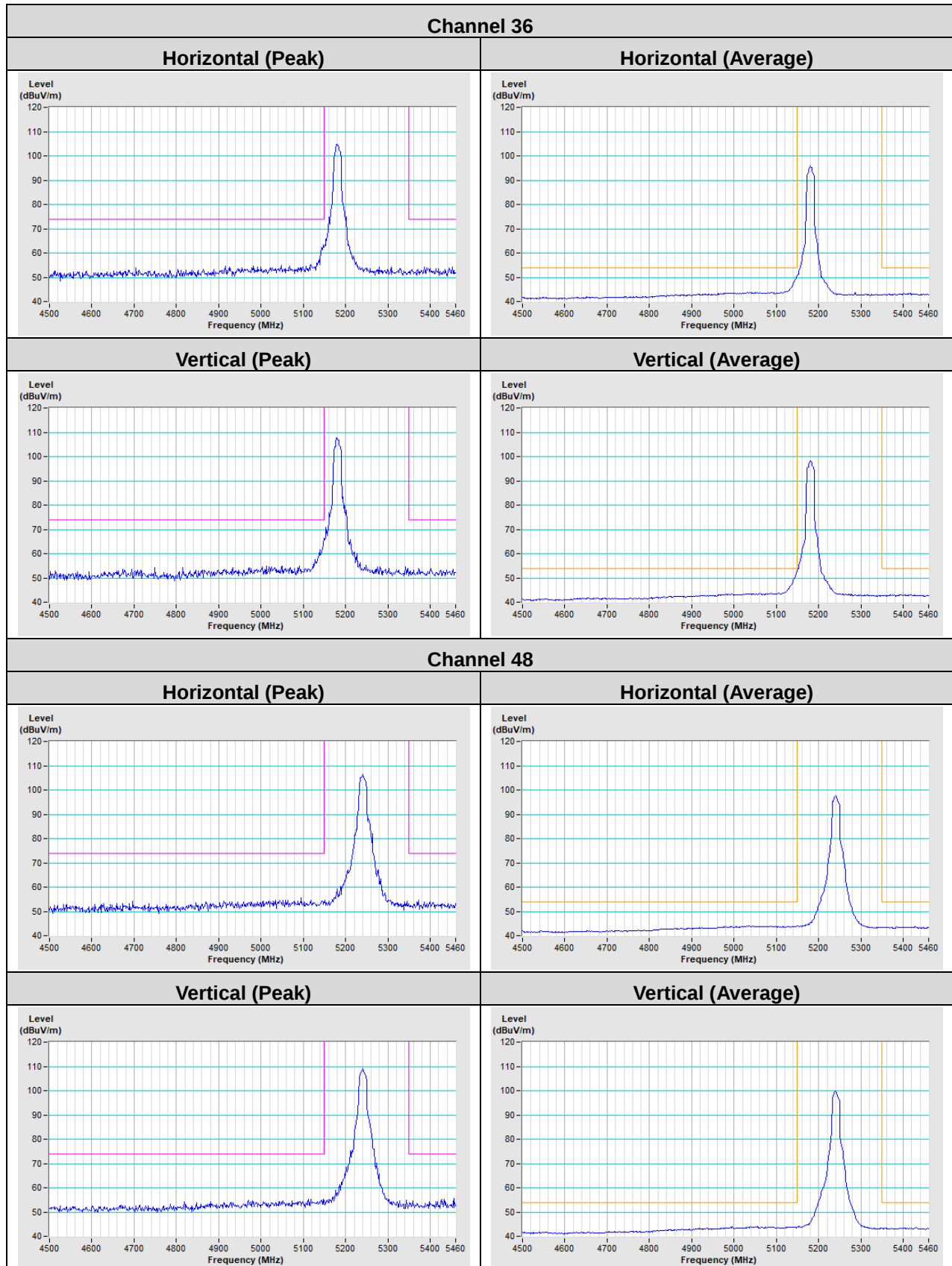


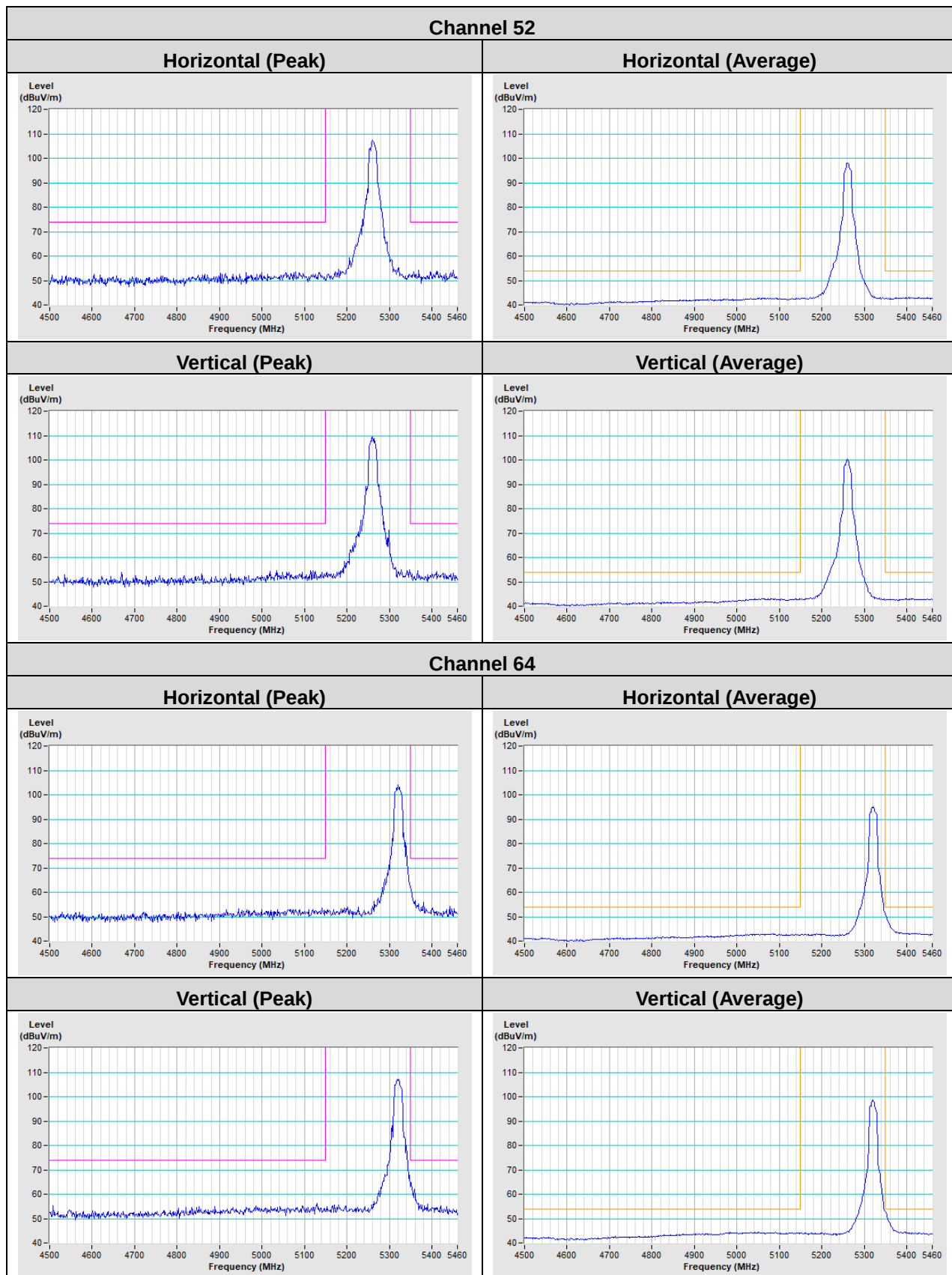
Vertical

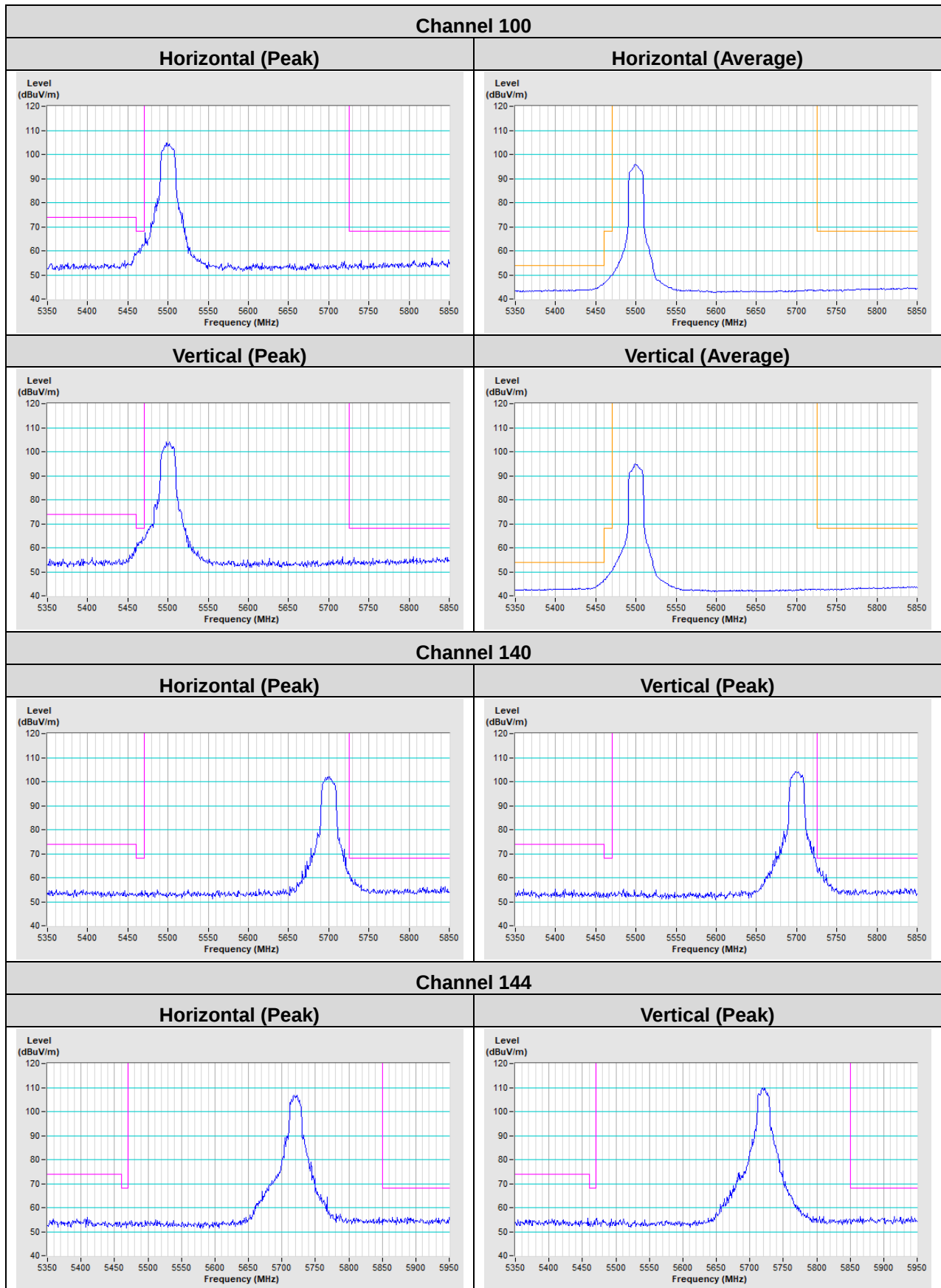


Annex B- Band Edge Measurement

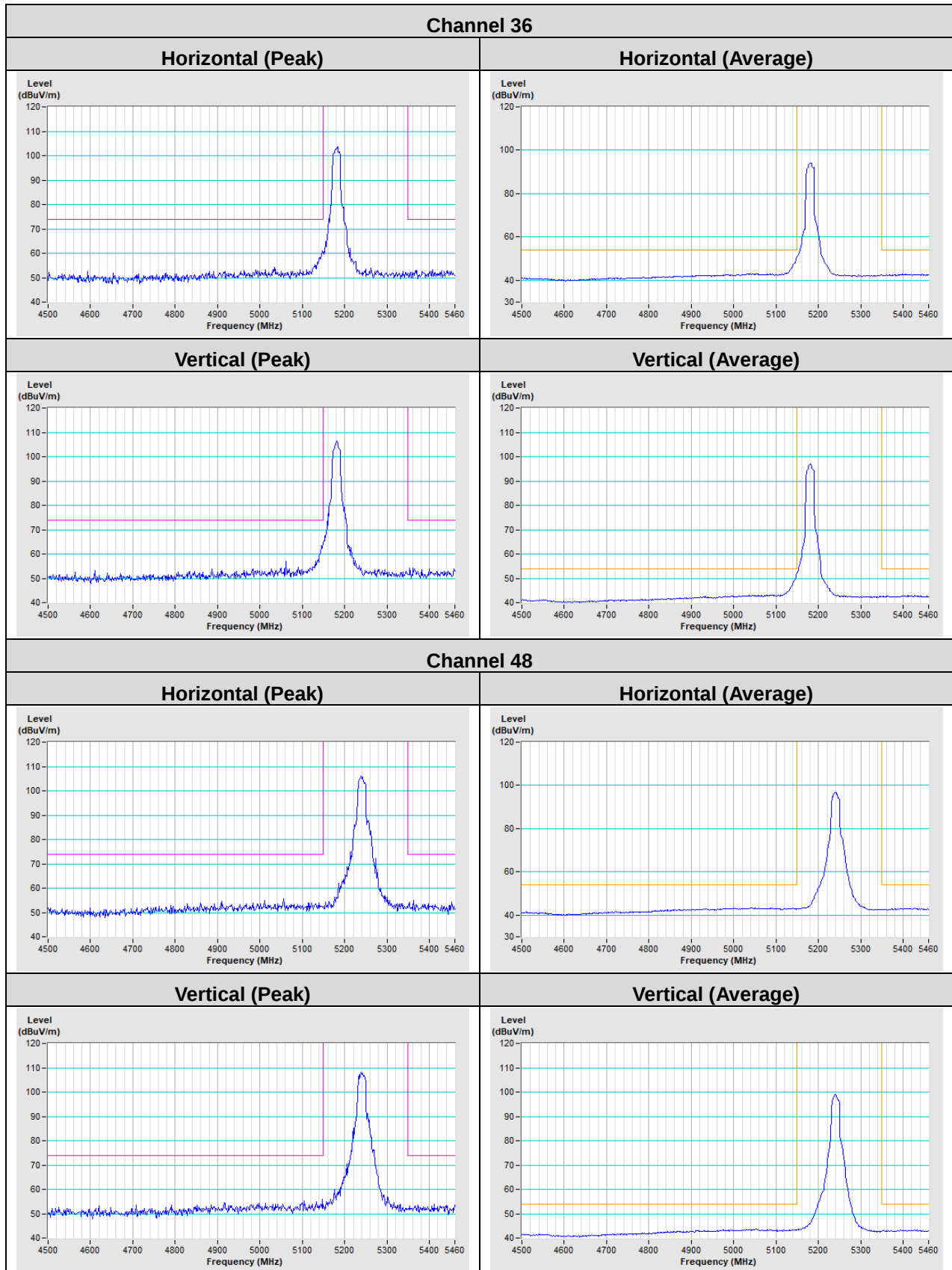
802.11a

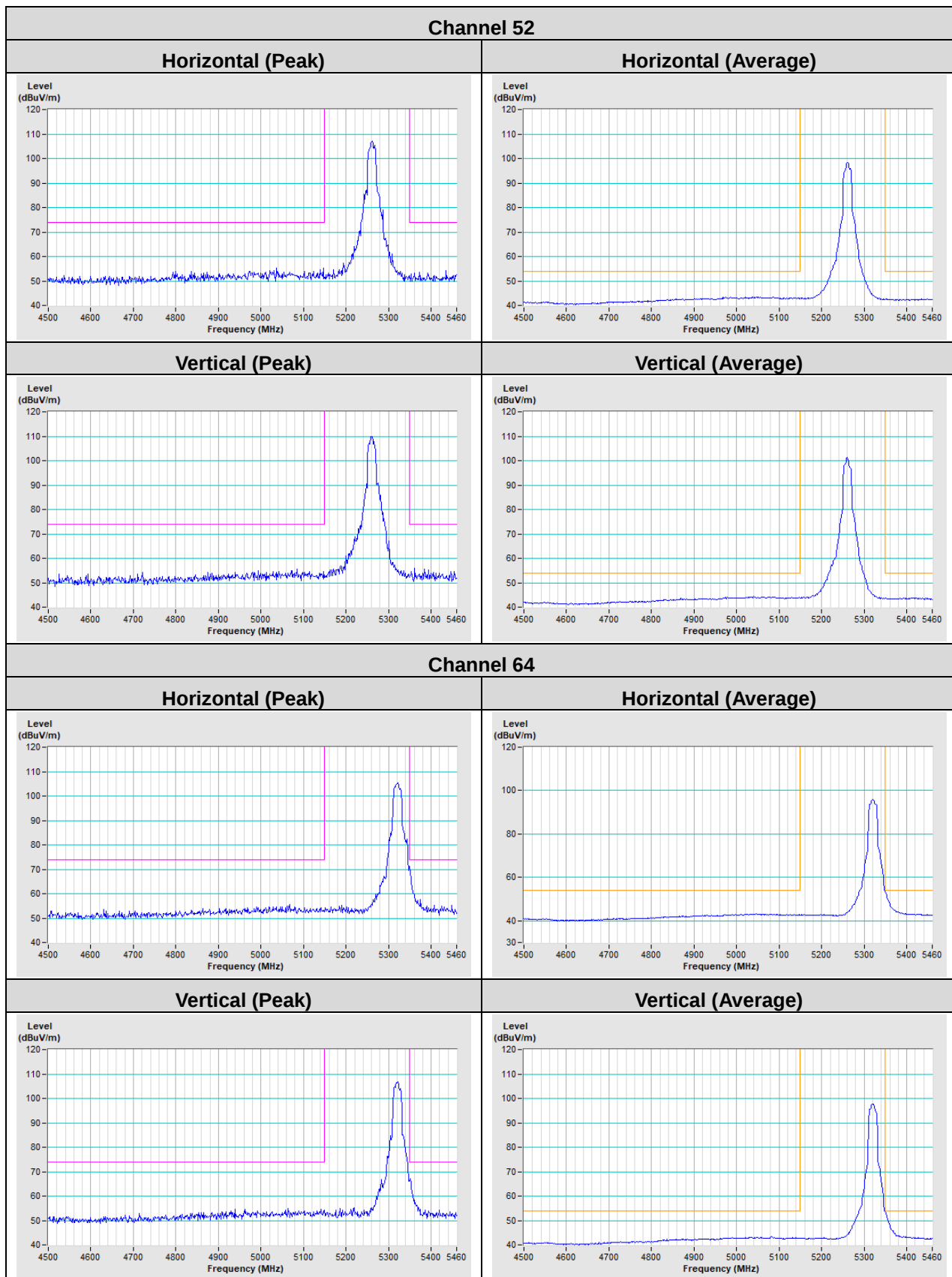


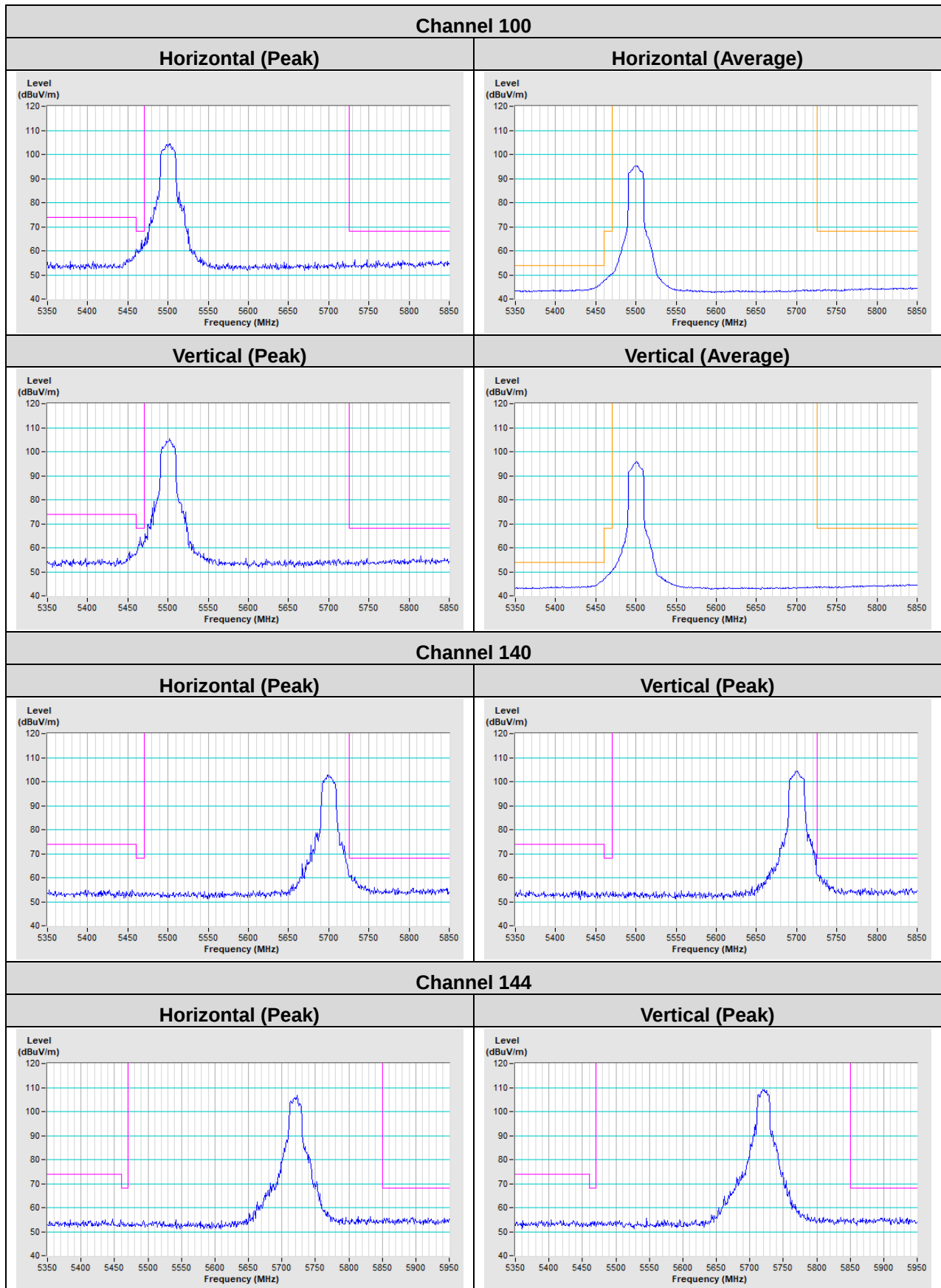




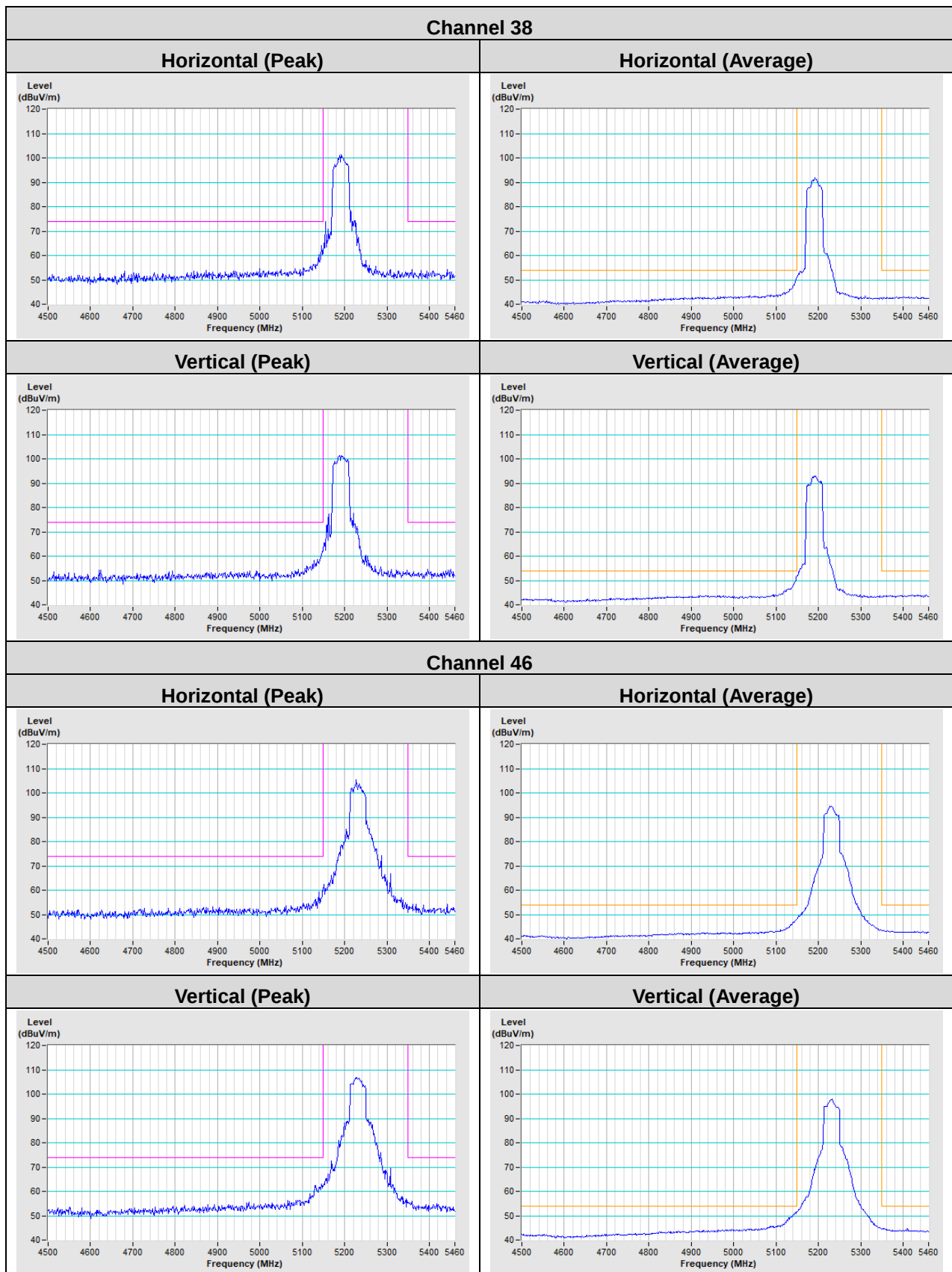
802.11n (HT20)

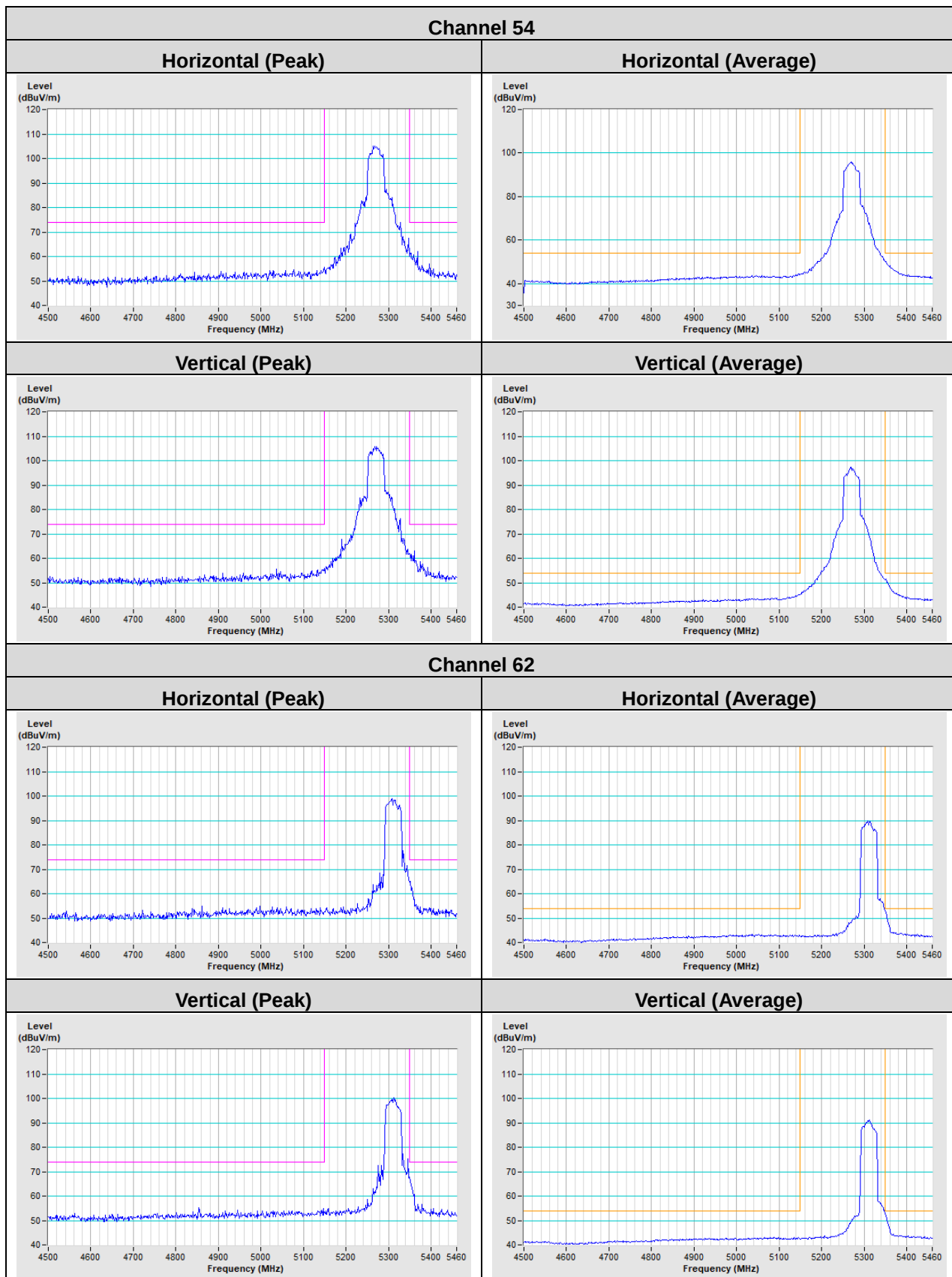






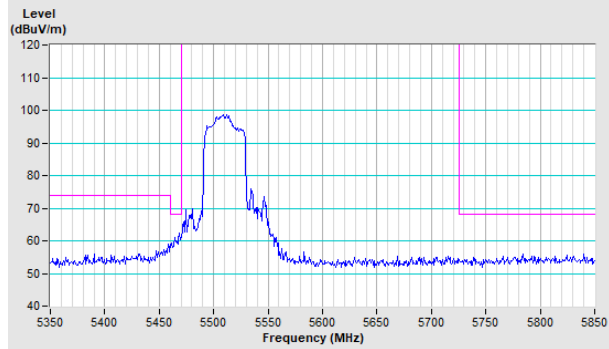
802.11n (HT40)



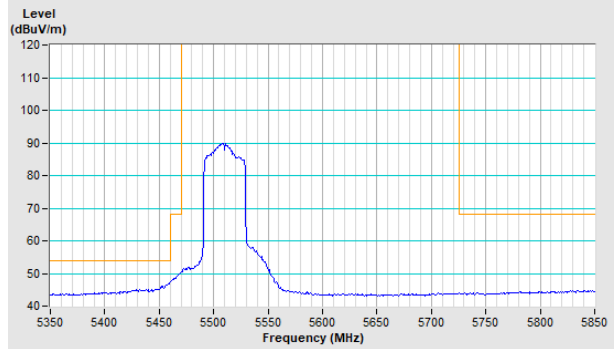


Channel 102

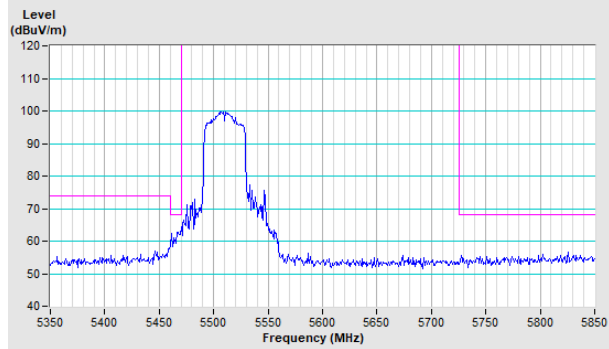
Horizontal (Peak)



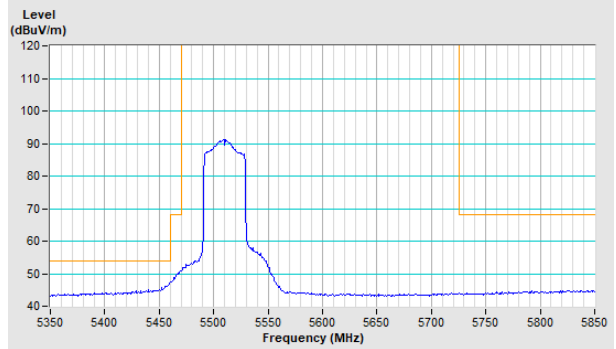
Horizontal (Average)



Vertical (Peak)

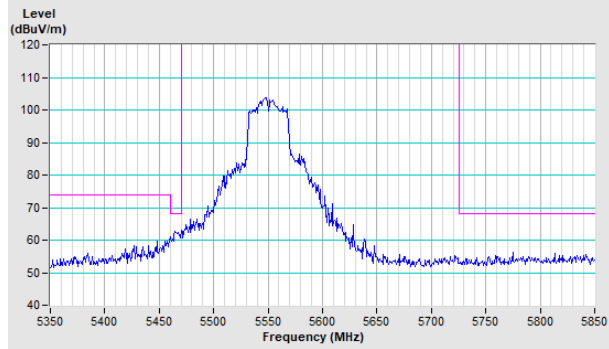


Vertical (Average)

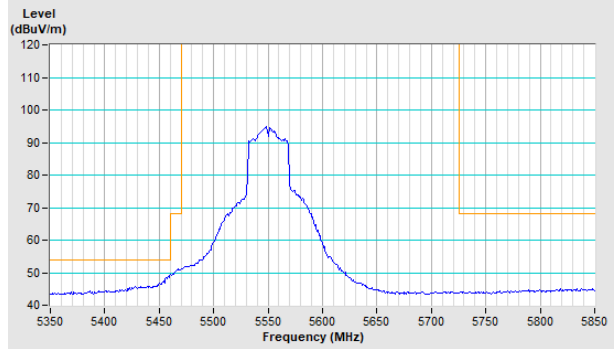


Channel 110

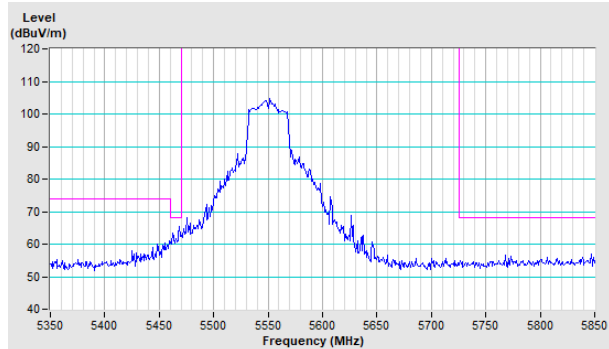
Horizontal (Peak)



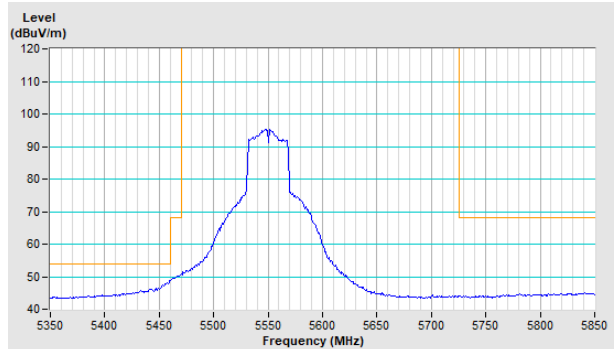
Horizontal (Average)

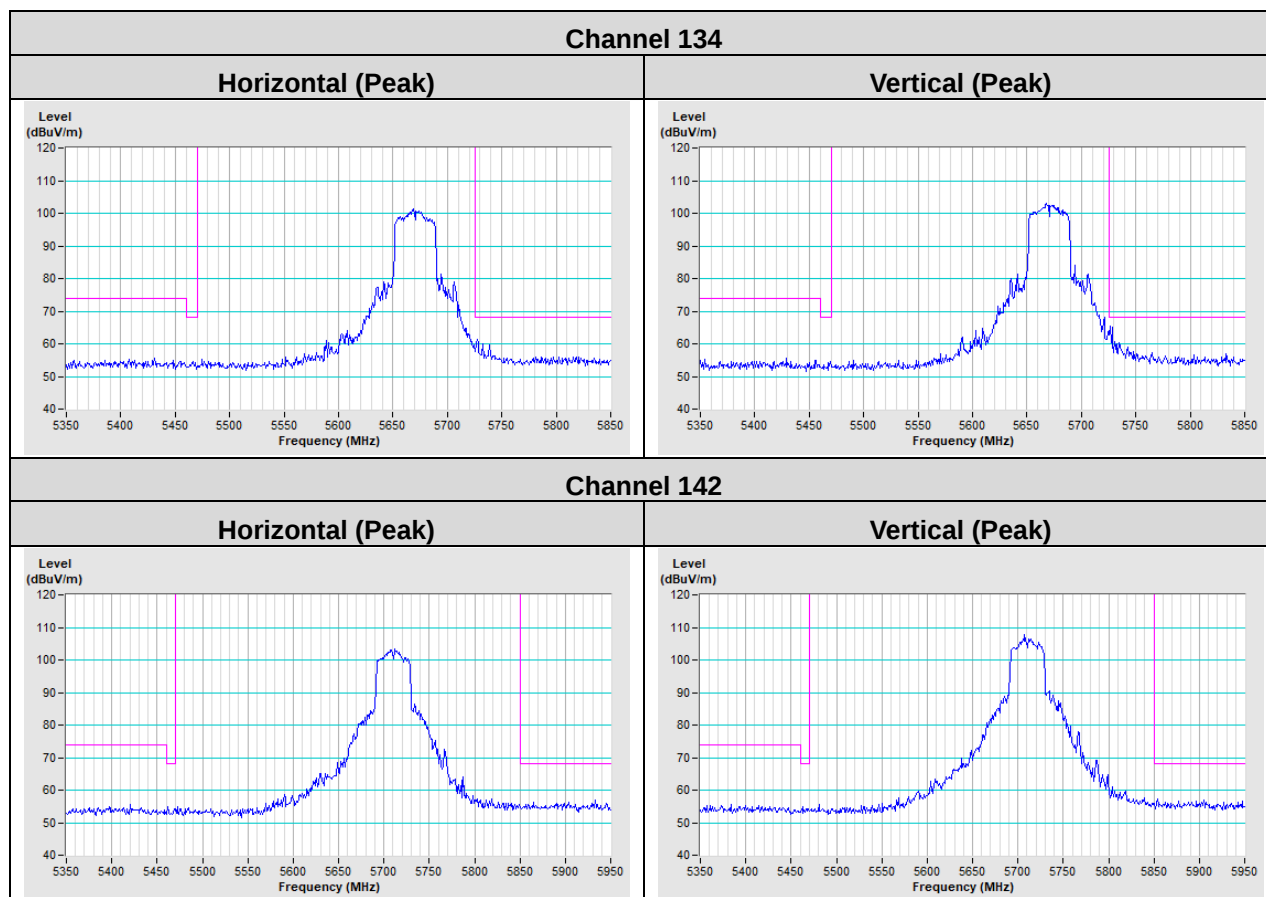


Vertical (Peak)

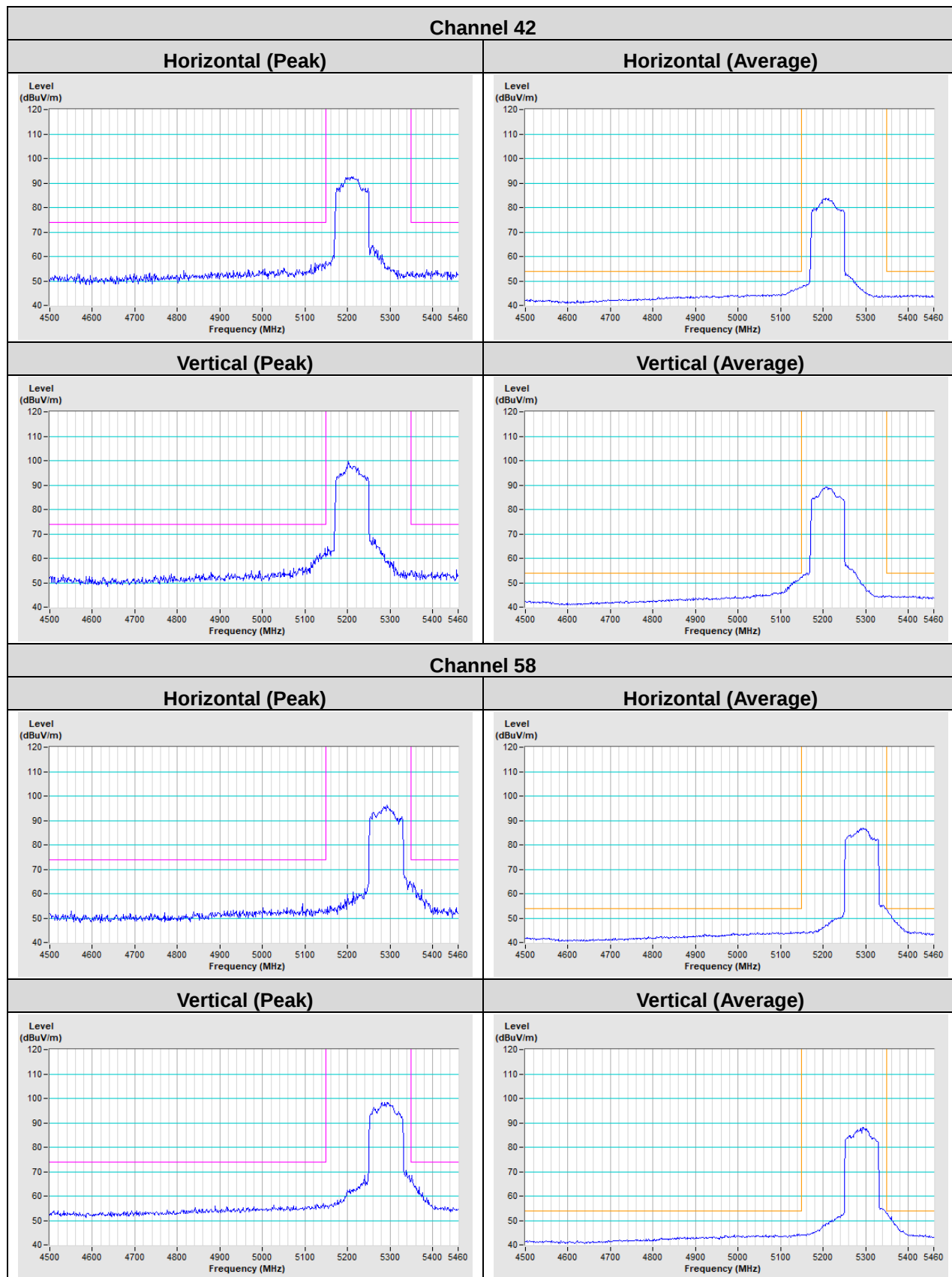


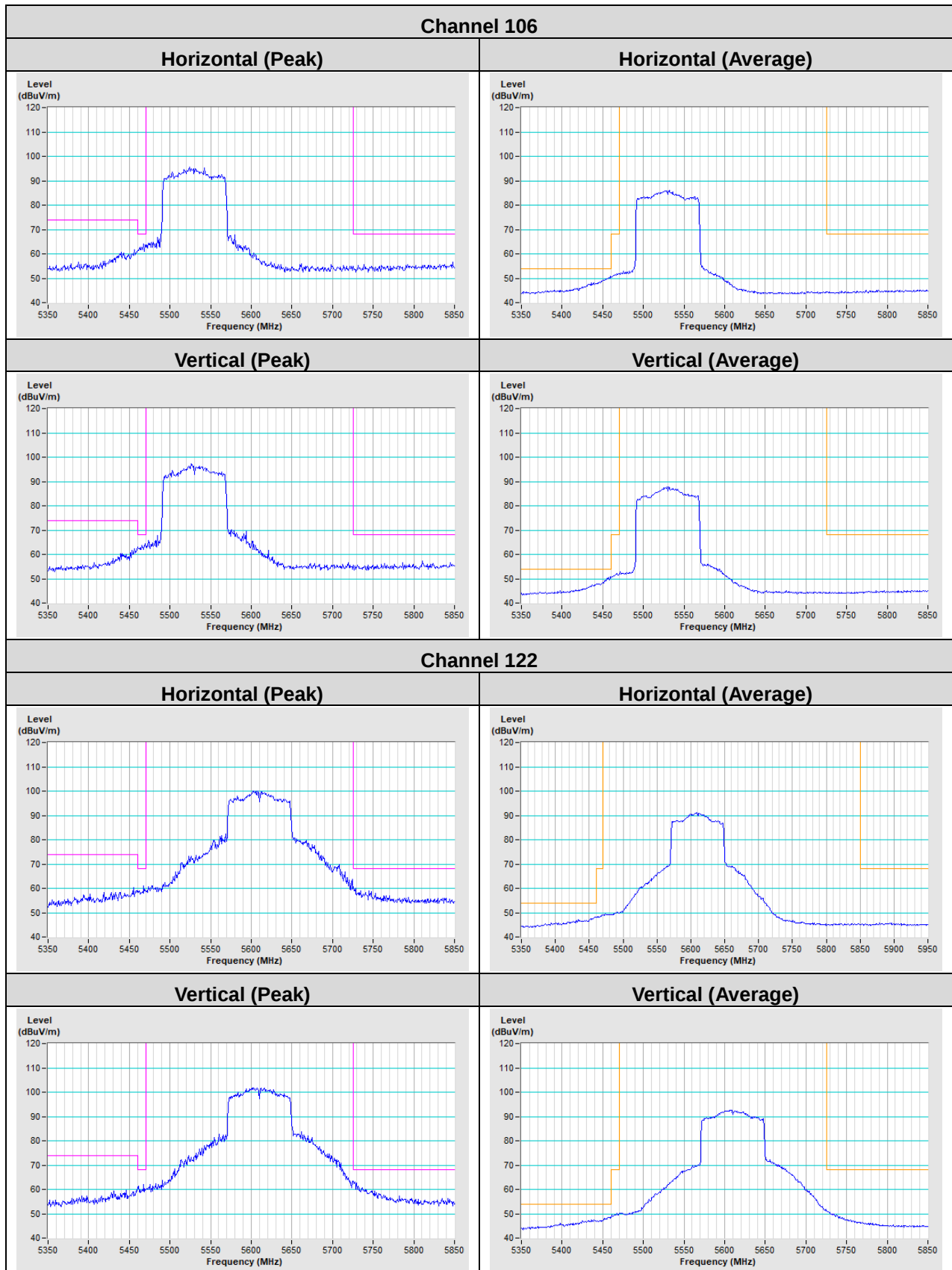
Vertical (Average)





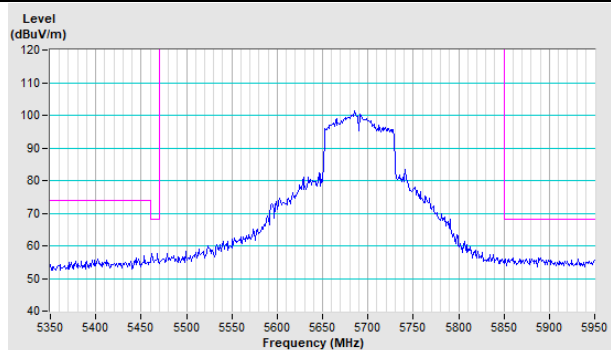
802.11ac (VHT80)



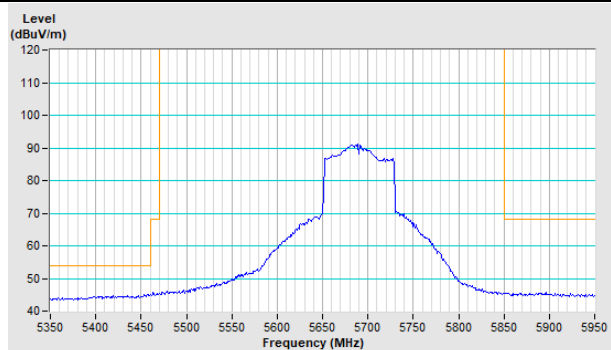


Channel 138

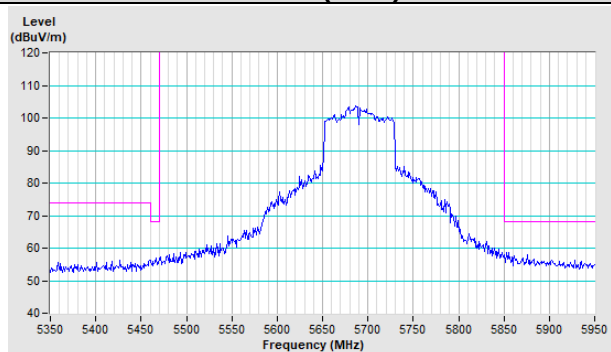
Horizontal (Peak)



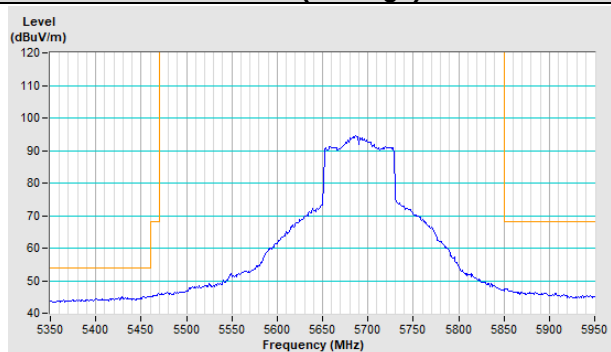
Horizontal (Average)



Vertical (Peak)



Vertical (Average)



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:

Lin Kou EMC/RF Lab

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-3-6668565

Fax: 886-3-6668323

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Tel: 886-3-3183232

Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com

Web Site: www.bureauveritas-adt.com

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

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