FCC Test Report (WLAN)

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FCC ID: AK8J20H088

Test Model: J20H088

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Applicant: Sony Corporation

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Release Control Record

Issue No.	Description	Date Issued
RF160512E02-1	Original release.	July 15, 2016

1 Certificate of Conformity

Product: WLAN/BT Module

Brand: FOXCONN

Test Model: J20H088

Sample Status: ENGINEERING SAMPLE

Applicant: Sony Corporation

Test Date: May 26 to June 16, 2016

Standard: 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 EMC characteristics under the conditions specified in this report.

Prepared by : _____ , **Date:** July 15, 2016
Wendy Wu / Specialist

Approved by : _____ , **Date:** July 15, 2016
May Chen / Manager

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 -11.24dB at 0.41172MHz.
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 -0.1dB at 15540.00MHz, 15720.00MHz, 16740.00MHz, 15690.00MHz, 16650.00MHz., 5470.00MHz
15.407(a)(1/2/3)	Max Average Transmit Power	Pass	Meet the requirement of limit.
---	Occupied Bandwidth Measurement	Pass	Meet the requirement of limit.
15.407(a)(1/2/3)	Peak Power Spectral Density	Pass	Meet the requirement of limit.
15.407(e)	6dB bandwidth	Pass	Meet the requirement of limit. (U-NII-3 Band only)
15.407(g)	Frequency Stability	Pass	Meet the requirement of limit.
15.203	Antenna Requirement	Pass	No antenna connector is used.

*For U-NII-3 band compliance with rule part 15.407(b)(4)(i), the OOBE test plots were recorded in Annex A.

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	Expended Uncertainty (k=2) (±)
Conducted Emissions at mains ports	150kHz ~ 30MHz	2.86 dB
Radiated Emissions up to 1 GHz	30MHz ~ 1GHz	5.19 dB
Radiated Emissions above 1 GHz	1GHz ~ 6GHz	3.43 dB
	6GHz ~ 18GHz	3.49 dB
	18GHz ~ 40GHz	4.11 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT (WLAN)

Product	WLAN/BT Module
Brand	FOXCONN
Test Model	J20H088
Status of EUT	ENGINEERING SAMPLE
Power Supply Rating	3.3Vdc from host equipment
Modulation Type	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode only
Modulation Technology	DSSS, OFDM
Transfer Rate	802.11b: up to 11Mbps 802.11a/g: up to 54Mbps 802.11n: up to 300Mbps 802.11ac: up to 866.7Mbps
Operating Frequency	**2.4GHz**: 2.412GHz ~ 2.462GHz **5GHz:** 5.18GHz ~ 5.24GHz, 5.26GH ~ 5.32GHz, 5.50GHz ~ 5.70GHz, 5.745GHz ~ 5.825GHz
Number of Channel	**2.4GHz:** 802.11b, 802.11g, 802.11n (HT20): 11 **5GHz:** 802.11a, 802.11n (HT20), 802.11ac (VHT20): 24 802.11n (HT40), 802.11ac (VHT40): 11 802.11ac (VHT80): 5
Output Power	**2.4GHz**: 788.298mW **5GHz:** **5.18GHz ~ 5.24GHz** 146.017mW **5.26GH ~ 5.32GHz** 151.651mW **5.50GHz ~ 5.70GHz** 180.181mW **5.745GHz ~ 5.825GHz** 290.377mW
Antenna Type	Refer to Note
Antenna Connector	Refer to Note
Accessory Device	NA
Data Cable Supplied	NA

Note:

1. There are WLAN, BT technology used for the EUT.
2. Simultaneously transmission condition.

Condition	Technology	
1	WLAN (2.4GHz)	Bluetooth
2	WLAN (5GHz)	Bluetooth
Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.		

3. The EUT has two samples, which are identical to each other in all aspects except for the followings:

Model	Sample	Different
J20H088	Sample 1	with Con4/Con5 switch connector
	Sample 2	without Con4/Con5 switch connector
According to above samples, **Sample 1** was selected as representative model for the test and its data was recorded in this report.		

4. The antennas provided to the EUT, please refer to the following table:

For BT used								
Item	Brand	Model	Antenna Gain(dBi) (included cable loss)	Frequency rang (GHz)	Antenna type	Connector type	Cable loss(dB)	Cable length (mm/cm)
1	FOXCONN	WDAN-S1TV0100-DH	-0.82	2.4~2.4835	PIFA	i-pex(MHF)	0.19	100mm(10cm)
2	FOXCONN	ANTS2M1-CSG02-EF	-0.84	2.4~2.4835	PIFA	i-pex(MHF)	0.21	110mm(11cm)
3	FOXCONN	ANTS2M1-CSG03-EF	-0.86	2.4~2.4835	PIFA	i-pex(MHF)	0.23	120mm(12cm)
4	FOXCONN	ANTS2M1-CSG04-EF	-0.88	2.4~2.4835	PIFA	i-pex(MHF)	0.25	130mm(13cm)
5	FOXCONN	ANTS2M1-CSG05-EF	-0.90	2.4~2.4835	PIFA	i-pex(MHF)	0.27	140mm(14cm)
6	FOXCONN	ANTS2M1-CSG06-EF	-0.92	2.4~2.4835	PIFA	i-pex(MHF)	0.29	150mm(15cm)
7	FOXCONN	ANTS2M1-CSG07-EF	-0.93	2.4~2.4835	PIFA	i-pex(MHF)	0.30	160mm(16cm)
8	FOXCONN	ANTS2M1-CSG08-EF	-0.95	2.4~2.4835	PIFA	i-pex(MHF)	0.32	170mm(17cm)
9	FOXCONN	ANTS2M1-CSG09-EF	-0.97	2.4~2.4835	PIFA	i-pex(MHF)	0.34	180mm(18cm)
10	FOXCONN	ANTS2M1-CSG10-EF	-0.99	2.4~2.4835	PIFA	i-pex(MHF)	0.36	190mm(19cm)
11	FOXCONN	ANTS2M1-CSG01-EF	-1.01	2.4~2.4835	PIFA	i-pex(MHF)	0.38	200mm(20cm)
12	FOXCONN	ANTS2M1-CSG11-EF	-1.03	2.4~2.4835	PIFA	i-pex(MHF)	0.40	210mm(21cm)
13	FOXCONN	ANTS2M1-CSG12-EF	-1.05	2.4~2.4835	PIFA	i-pex(MHF)	0.42	220mm(22cm)
14	FOXCONN	ANTS2M1-CSG13-EF	-1.07	2.4~2.4835	PIFA	i-pex(MHF)	0.44	230mm(23cm)
15	FOXCONN	ANTS2M1-CSG14-EF	-1.09	2.4~2.4835	PIFA	i-pex(MHF)	0.46	240mm(24cm)
16	FOXCONN	ANTS2M1-CSG15-EF	-1.11	2.4~2.4835	PIFA	i-pex(MHF)	0.48	250mm(25cm)
17	FOXCONN	ANTS2M1-CSG16-EF	-1.12	2.4~2.4835	PIFA	i-pex(MHF)	0.49	260mm(26cm)
18	FOXCONN	ANTS2M1-CSG17-EF	-1.14	2.4~2.4835	PIFA	i-pex(MHF)	0.51	270mm(27cm)
19	FOXCONN	ANTS2M1-CSG18-EF	-1.16	2.4~2.4835	PIFA	i-pex(MHF)	0.53	280mm(28cm)
20	FOXCONN	ANTS2M1-CSG19-EF	-1.18	2.4~2.4835	PIFA	i-pex(MHF)	0.55	290mm(29cm)
21	FOXCONN	WDAN-S1TV0300-DH	-1.20	2.4~2.4835	PIFA	i-pex(MHF)	0.57	300mm(30cm)
22	FOXCONN	WDAN-S1TV0310-DH	-1.22	2.4~2.4835	PIFA	i-pex(MHF)	0.59	310mm(31cm)
23	FOXCONN	WDAN-S1TV0320-DH	-1.24	2.4~2.4835	PIFA	i-pex(MHF)	0.61	320mm(32cm)
24	FOXCONN	WDAN-S1TV0330-DH	-1.26	2.4~2.4835	PIFA	i-pex(MHF)	0.63	330mm(33cm)
25	FOXCONN	WDAN-S1TV0340-DH	-1.28	2.4~2.4835	PIFA	i-pex(MHF)	0.65	340mm(34cm)
26	FOXCONN	WDAN-S1TV0350-DH	-1.30	2.4~2.4835	PIFA	i-pex(MHF)	0.67	350mm(35cm)

27	FOXCONN	WDAN-S1TV0360-DH	-1.31	2.4~2.4835	PIFA	i-pex(MHF)	0.68	360mm(36cm)
28	FOXCONN	WDAN-S1TV0370-DH	-1.33	2.4~2.4835	PIFA	i-pex(MHF)	0.70	370mm(37cm)
29	FOXCONN	WDAN-S1TV0380-DH	-1.35	2.4~2.4835	PIFA	i-pex(MHF)	0.72	380mm(38cm)
30	FOXCONN	WDAN-S1TV0390-DH	-1.37	2.4~2.4835	PIFA	i-pex(MHF)	0.74	390mm(39cm)
31	FOXCONN	WDAN-S1TV0400-DH	-1.39	2.4~2.4835	PIFA	i-pex(MHF)	0.76	400mm(40cm)
32	FOXCONN	WDAN-S1TV0410-DH	-1.41	2.4~2.4835	PIFA	i-pex(MHF)	0.78	410mm(41cm)
33	FOXCONN	WDAN-S1TV0420-DH	-1.43	2.4~2.4835	PIFA	i-pex(MHF)	0.80	420mm(42cm)
34	FOXCONN	WDAN-S1TV0430-DH	-1.45	2.4~2.4835	PIFA	i-pex(MHF)	0.82	430mm(43cm)
35	FOXCONN	WDAN-S1TV0440-DH	-1.47	2.4~2.4835	PIFA	i-pex(MHF)	0.84	440mm(44cm)
36	FOXCONN	WDAN-S1TV0450-DH	-1.49	2.4~2.4835	PIFA	i-pex(MHF)	0.86	450mm(45cm)
37	FOXCONN	WDAN-S1TV0460-DH	-1.50	2.4~2.4835	PIFA	i-pex(MHF)	0.87	460mm(46cm)
38	FOXCONN	WDAN-S1TV0470-DH	-1.52	2.4~2.4835	PIFA	i-pex(MHF)	0.89	470mm(47cm)
39	FOXCONN	WDAN-S1TV0480-DH	-1.54	2.4~2.4835	PIFA	i-pex(MHF)	0.91	480mm(48cm)
40	FOXCONN	WDAN-S1TV0490-DH	-1.56	2.4~2.4835	PIFA	i-pex(MHF)	0.93	490mm(49cm)
41	FOXCONN	WDAN-S1TV0500-DH	-1.58	2.4~2.4835	PIFA	i-pex(MHF)	0.95	500mm(50cm)
42	FOXCONN	WDAN-S1TV0510-DH	-1.60	2.4~2.4835	PIFA	i-pex(MHF)	0.97	510mm(51cm)
43	FOXCONN	WDAN-S1TV0520-DH	-1.62	2.4~2.4835	PIFA	i-pex(MHF)	0.99	520mm(52cm)
44	FOXCONN	WDAN-S1TV0530-DH	-1.64	2.4~2.4835	PIFA	i-pex(MHF)	1.01	530mm(53cm)
45	FOXCONN	WDAN-S1TV0540-DH	-1.66	2.4~2.4835	PIFA	i-pex(MHF)	1.03	540mm(54cm)
46	FOXCONN	WDAN-S1TV0550-DH	-1.68	2.4~2.4835	PIFA	i-pex(MHF)	1.05	550mm(55cm)
47	FOXCONN	WDAN-S1TV0560-DH	-1.69	2.4~2.4835	PIFA	i-pex(MHF)	1.06	560mm(56cm)
48	FOXCONN	WDAN-S1TV0570-DH	-1.71	2.4~2.4835	PIFA	i-pex(MHF)	1.08	570mm(57cm)
49	FOXCONN	ANTS2M1-CSG20-EF	-1.72	2.4~2.4835	PIFA	i-pex(MHF)	1.09	575mm(57.5cm)
50	FOXCONN	WDAN-S1TV0580-DH	-1.73	2.4~2.4835	PIFA	i-pex(MHF)	1.10	580mm(58cm)
51	FOXCONN	WDAN-S1TV0590-DH	-1.75	2.4~2.4835	PIFA	i-pex(MHF)	1.12	590mm(59cm)
52	FOXCONN	WDAN-S1TV0600-DH	-1.77	2.4~2.4835	PIFA	i-pex(MHF)	1.14	600mm(60cm)
53	FOXCONN	WDAN-S1TV0610-DH	-1.79	2.4~2.4835	PIFA	i-pex(MHF)	1.16	610mm(61cm)
54	FOXCONN	WDAN-S1TV0620-DH	-1.81	2.4~2.4835	PIFA	i-pex(MHF)	1.18	620mm(62cm)
55	FOXCONN	WDAN-S1TV0630-DH	-1.83	2.4~2.4835	PIFA	i-pex(MHF)	1.20	630mm(63cm)
56	FOXCONN	WDAN-S1TV0640-DH	-1.85	2.4~2.4835	PIFA	i-pex(MHF)	1.22	640mm(64cm)
57	FOXCONN	WDAN-S1TV0650-DH	-1.87	2.4~2.4835	PIFA	i-pex(MHF)	1.24	650mm(65cm)
58	FOXCONN	WDAN-S1TV0660-DH	-1.88	2.4~2.4835	PIFA	i-pex(MHF)	1.25	660mm(66cm)
59	FOXCONN	WDAN-S1TV0670-DH	-1.90	2.4~2.4835	PIFA	i-pex(MHF)	1.27	670mm(67cm)
60	FOXCONN	WDAN-S1TV0680-DH	-1.92	2.4~2.4835	PIFA	i-pex(MHF)	1.29	680mm(68cm)
61	FOXCONN	WDAN-S1TV0690-DH	-1.94	2.4~2.4835	PIFA	i-pex(MHF)	1.31	690mm(69cm)
62	FOXCONN	WDAN-S1TV0700-DH	-1.96	2.4~2.4835	PIFA	i-pex(MHF)	1.33	700mm(70cm)
63	FOXCONN	WDAN-S1TV0710-DH	-1.98	2.4~2.4835	PIFA	i-pex(MHF)	1.35	710mm(71cm)
64	FOXCONN	WDAN-S1TV0720-DH	-2.00	2.4~2.4835	PIFA	i-pex(MHF)	1.37	720mm(72cm)
65	FOXCONN	WDAN-S1TV0730-DH	-2.02	2.4~2.4835	PIFA	i-pex(MHF)	1.39	730mm(73cm)
66	FOXCONN	WDAN-S1TV0740-DH	-2.04	2.4~2.4835	PIFA	i-pex(MHF)	1.41	740mm(74cm)
67	FOXCONN	WDAN-S1TV0750-DH	-2.06	2.4~2.4835	PIFA	i-pex(MHF)	1.43	750mm(75cm)
68	FOXCONN	WDAN-S1TV0760-DH	-2.07	2.4~2.4835	PIFA	i-pex(MHF)	1.44	760mm(76cm)

69	FOXCONN	WDAN-S1TV0770-DH	-2.09	2.4~2.4835	PIFA	i-pex(MHF)	1.46	770mm(77cm)
70	FOXCONN	WDAN-S1TV0780-DH	-2.11	2.4~2.4835	PIFA	i-pex(MHF)	1.48	780mm(78cm)
71	FOXCONN	WDAN-S1TV0790-DH	-2.13	2.4~2.4835	PIFA	i-pex(MHF)	1.50	790mm(79cm)
72	FOXCONN	WDAN-S1TV0800-DH	-2.15	2.4~2.4835	PIFA	i-pex(MHF)	1.52	800mm(80cm)
73	FOXCONN	WDAN-S1TV0810-DH	-2.17	2.4~2.4835	PIFA	i-pex(MHF)	1.54	810mm(81cm)
74	FOXCONN	WDAN-S1TV0820-DH	-2.19	2.4~2.4835	PIFA	i-pex(MHF)	1.56	820mm(82cm)
75	FOXCONN	WDAN-S1TV0830-DH	-2.21	2.4~2.4835	PIFA	i-pex(MHF)	1.58	830mm(83cm)
76	FOXCONN	WDAN-S1TV0840-DH	-2.23	2.4~2.4835	PIFA	i-pex(MHF)	1.60	840mm(84cm)
77	FOXCONN	WDAN-S1TV0850-DH	-2.25	2.4~2.4835	PIFA	i-pex(MHF)	1.62	850mm(85cm)
78	FOXCONN	WDAN-S1TV0860-DH	-2.26	2.4~2.4835	PIFA	i-pex(MHF)	1.63	860mm(86cm)
79	FOXCONN	WDAN-S1TV0870-DH	-2.28	2.4~2.4835	PIFA	i-pex(MHF)	1.65	870mm(87cm)
80	FOXCONN	WDAN-S1TV0880-DH	-2.30	2.4~2.4835	PIFA	i-pex(MHF)	1.67	880mm(88cm)
81	FOXCONN	WDAN-S1TV0890-DH	-2.32	2.4~2.4835	PIFA	i-pex(MHF)	1.69	890mm(89cm)
82	FOXCONN	WDAN-S1TV0900-DH	-2.34	2.4~2.4835	PIFA	i-pex(MHF)	1.71	900mm(90cm)
83	FOXCONN	WDAN-S1TV0910-DH	-2.36	2.4~2.4835	PIFA	i-pex(MHF)	1.73	910mm(91cm)
84	FOXCONN	WDAN-S1TV0920-DH	-2.38	2.4~2.4835	PIFA	i-pex(MHF)	1.75	920mm(92cm)
85	FOXCONN	WDAN-S1TV0930-DH	-2.40	2.4~2.4835	PIFA	i-pex(MHF)	1.77	930mm(93cm)
86	FOXCONN	WDAN-S1TV0940-DH	-2.42	2.4~2.4835	PIFA	i-pex(MHF)	1.79	940mm(94cm)
87	FOXCONN	WDAN-S1TV0950-DH	-2.44	2.4~2.4835	PIFA	i-pex(MHF)	1.81	950mm(95cm)
88	FOXCONN	WDAN-S1TV0960-DH	-2.45	2.4~2.4835	PIFA	i-pex(MHF)	1.82	960mm(96cm)
89	FOXCONN	WDAN-S1TV0970-DH	-2.47	2.4~2.4835	PIFA	i-pex(MHF)	1.84	970mm(97cm)
90	FOXCONN	WDAN-S1TV0980-DH	-2.49	2.4~2.4835	PIFA	i-pex(MHF)	1.86	980mm(98cm)
91	FOXCONN	WDAN-S1TV0990-DH	-2.51	2.4~2.4835	PIFA	i-pex(MHF)	1.88	990mm(99cm)
92	FOXCONN	WDAN-S1TV1000-DH	-2.53	2.4~2.4835	PIFA	i-pex(MHF)	1.90	1000mm(100cm)
93	FOXCONN	WDAN-S1TV1010-DH	-2.55	2.4~2.4835	PIFA	i-pex(MHF)	1.92	1010mm(101cm)
94	FOXCONN	WDAN-S1TV1020-DH	-2.57	2.4~2.4835	PIFA	i-pex(MHF)	1.94	1020mm(102cm)
95	FOXCONN	WDAN-S1TV1030-DH	-2.59	2.4~2.4835	PIFA	i-pex(MHF)	1.96	1030mm(103cm)
96	FOXCONN	WDAN-S1TV1040-DH	-2.61	2.4~2.4835	PIFA	i-pex(MHF)	1.98	1040mm(104cm)
97	FOXCONN	WDAN-S1TV1050-DH	-2.63	2.4~2.4835	PIFA	i-pex(MHF)	2.00	1050mm(105cm)
98	FOXCONN	WDAN-S1TV1060-DH	-2.64	2.4~2.4835	PIFA	i-pex(MHF)	2.01	1060mm(106cm)
99	FOXCONN	WDAN-S1TV1070-DH	-2.66	2.4~2.4835	PIFA	i-pex(MHF)	2.03	1070mm(107cm)
100	FOXCONN	WDAN-S1TV1080-DH	-2.68	2.4~2.4835	PIFA	i-pex(MHF)	2.05	1080mm(108cm)
101	FOXCONN	WDAN-S1TV1090-DH	-2.70	2.4~2.4835	PIFA	i-pex(MHF)	2.07	1090mm(109cm)
102	FOXCONN	WDAN-S1TV1100-DH	-2.72	2.4~2.4835	PIFA	i-pex(MHF)	2.09	1100mm(110cm)
103	FOXCONN	WDAN-S1TV1110-DH	-2.74	2.4~2.4835	PIFA	i-pex(MHF)	2.11	1110mm(111cm)
104	FOXCONN	WDAN-S1TV1120-DH	-2.76	2.4~2.4835	PIFA	i-pex(MHF)	2.13	1120mm(112cm)

105	FOXCONN	WDAN-S1TV1130-DH	-2.78	2.4~2.4835	PIFA	i-pex(MHF)	2.15	1130mm(113cm)
106	FOXCONN	WDAN-S1TV1140-DH	-2.80	2.4~2.4835	PIFA	i-pex(MHF)	2.17	1140mm(114cm)
107	FOXCONN	WDAN-S1TV1150-DH	-2.82	2.4~2.4835	PIFA	i-pex(MHF)	2.19	1150mm(115cm)
108	FOXCONN	WDAN-S1TV1160-DH	-2.83	2.4~2.4835	PIFA	i-pex(MHF)	2.20	1160mm(116cm)
109	FOXCONN	WDAN-S1TV1170-DH	-2.85	2.4~2.4835	PIFA	i-pex(MHF)	2.22	1170mm(117cm)
110	FOXCONN	WDAN-S1TV1180-DH	-2.87	2.4~2.4835	PIFA	i-pex(MHF)	2.24	1180mm(118cm)
111	FOXCONN	WDAN-S1TV1190-DH	-2.89	2.4~2.4835	PIFA	i-pex(MHF)	2.26	1190mm(119cm)
112	FOXCONN	WDAN-S1TV1200-DH	-2.91	2.4~2.4835	PIFA	i-pex(MHF)	2.28	1200mm(120cm)
113	FOXCONN	WDAN-S1TV1210-DH	-2.93	2.4~2.4835	PIFA	i-pex(MHF)	2.30	1210mm(121cm)
114	FOXCONN	WDAN-S1TV1220-DH	-2.95	2.4~2.4835	PIFA	i-pex(MHF)	2.32	1220mm(122cm)
115	FOXCONN	WDAN-S1TV1230-DH	-2.97	2.4~2.4835	PIFA	i-pex(MHF)	2.34	1230mm(123cm)
116	FOXCONN	WDAN-S1TV1240-DH	-2.99	2.4~2.4835	PIFA	i-pex(MHF)	2.36	1240mm(124cm)
117	FOXCONN	WDAN-S1TV1250-DH	-3.01	2.4~2.4835	PIFA	i-pex(MHF)	2.38	1250mm(125cm)
118	FOXCONN	WDAN-S1TV1260-DH	-3.02	2.4~2.4835	PIFA	i-pex(MHF)	2.39	1260mm(126cm)
119	FOXCONN	WDAN-S1TV1270-DH	-3.04	2.4~2.4835	PIFA	i-pex(MHF)	2.41	1270mm(127cm)
120	FOXCONN	WDAN-S1TV1280-DH	-3.06	2.4~2.4835	PIFA	i-pex(MHF)	2.43	1280mm(128cm)
121	FOXCONN	WDAN-S1TV1290-DH	-3.08	2.4~2.4835	PIFA	i-pex(MHF)	2.45	1290mm(129cm)
122	FOXCONN	WDAN-S1TV1300-DH	-3.10	2.4~2.4835	PIFA	i-pex(MHF)	2.47	1300mm(130cm)
123	FOXCONN	WDAN-S1TV1310-DH	-3.12	2.4~2.4835	PIFA	i-pex(MHF)	2.49	1310mm(131cm)
124	FOXCONN	WDAN-S1TV1320-DH	-3.14	2.4~2.4835	PIFA	i-pex(MHF)	2.51	1320mm(132cm)
125	FOXCONN	WDAN-S1TV1330-DH	-3.16	2.4~2.4835	PIFA	i-pex(MHF)	2.53	1330mm(133cm)
126	FOXCONN	WDAN-S1TV1340-DH	-3.18	2.4~2.4835	PIFA	i-pex(MHF)	2.55	1340mm(134cm)
127	FOXCONN	WDAN-S1TV1350-DH	-3.20	2.4~2.4835	PIFA	i-pex(MHF)	2.57	1350mm(135cm)
128	FOXCONN	WDAN-S1TV1360-DH	-3.21	2.4~2.4835	PIFA	i-pex(MHF)	2.58	1360mm(136cm)
129	FOXCONN	WDAN-S1TV1370-DH	-3.23	2.4~2.4835	PIFA	i-pex(MHF)	2.60	1370mm(137cm)
130	FOXCONN	WDAN-S1TV1380-DH	-3.25	2.4~2.4835	PIFA	i-pex(MHF)	2.62	1380mm(138cm)
131	FOXCONN	WDAN-S1TV1390-DH	-3.27	2.4~2.4835	PIFA	i-pex(MHF)	2.64	1390mm(139cm)
132	FOXCONN	WDAN-S1TV1400-DH	-3.29	2.4~2.4835	PIFA	i-pex(MHF)	2.66	1400mm(140cm)

133	FOXCONN	WDAN-S1TV1410-DH	-3.31	2.4~2.4835	PIFA	i-pex(MHF)	2.68	1410mm(141cm)
134	FOXCONN	WDAN-S1TV1420-DH	-3.33	2.4~2.4835	PIFA	i-pex(MHF)	2.70	1420mm(142cm)
135	FOXCONN	WDAN-S1TV1430-DH	-3.35	2.4~2.4835	PIFA	i-pex(MHF)	2.72	1430mm(143cm)
136	FOXCONN	WDAN-S1TV1440-DH	-3.37	2.4~2.4835	PIFA	i-pex(MHF)	2.74	1440mm(144cm)
137	FOXCONN	WDAN-S1TV1450-DH	-3.39	2.4~2.4835	PIFA	i-pex(MHF)	2.76	1450mm(145cm)
138	FOXCONN	WDAN-S1TV1460-DH	-3.40	2.4~2.4835	PIFA	i-pex(MHF)	2.77	1460mm(146cm)
139	FOXCONN	WDAN-S1TV1470-DH	-3.42	2.4~2.4835	PIFA	i-pex(MHF)	2.79	1470mm(147cm)
140	FOXCONN	WDAN-S1TV1480-DH	-3.44	2.4~2.4835	PIFA	i-pex(MHF)	2.81	1480mm(148cm)
141	FOXCONN	WDAN-S1TV1490-DH	-3.46	2.4~2.4835	PIFA	i-pex(MHF)	2.83	1490mm(149cm)
142	FOXCONN	WDAN-S1TV1500-DH	-3.48	2.4~2.4835	PIFA	i-pex(MHF)	2.85	1500mm(150cm)
143	FOXCONN	WDAN-S1TV1510-DH	-3.50	2.4~2.4835	PIFA	i-pex(MHF)	2.87	1510mm(151cm)
144	FOXCONN	WDAN-S1TV1520-DH	-3.52	2.4~2.4835	PIFA	i-pex(MHF)	2.89	1520mm(152cm)
145	FOXCONN	WDAN-S1TV1530-DH	-3.54	2.4~2.4835	PIFA	i-pex(MHF)	2.91	1530mm(153cm)
146	FOXCONN	WDAN-S1TV1540-DH	-3.56	2.4~2.4835	PIFA	i-pex(MHF)	2.93	1540mm(154cm)
147	FOXCONN	WDAN-S1TV1550-DH	-3.58	2.4~2.4835	PIFA	i-pex(MHF)	2.95	1550mm(155cm)
148	FOXCONN	WDAN-S1TV1560-DH	-3.59	2.4~2.4835	PIFA	i-pex(MHF)	2.96	1560mm(156cm)
149	FOXCONN	WDAN-S1TV1570-DH	-3.61	2.4~2.4835	PIFA	i-pex(MHF)	2.98	1570mm(157cm)
150	FOXCONN	WDAN-S1TV1580-DH	-3.63	2.4~2.4835	PIFA	i-pex(MHF)	3.00	1580mm(158cm)
151	FOXCONN	WDAN-S1TV1590-DH	-3.65	2.4~2.4835	PIFA	i-pex(MHF)	3.02	1590mm(159cm)
152	FOXCONN	WDAN-S1TV1600-DH	-3.67	2.4~2.4835	PIFA	i-pex(MHF)	3.04	1600mm(160cm)
153	FOXCONN	WDAN-S1TV1610-DH	-3.69	2.4~2.4835	PIFA	i-pex(MHF)	3.06	1610mm(161cm)
154	FOXCONN	WDAN-S1TV1620-DH	-3.71	2.4~2.4835	PIFA	i-pex(MHF)	3.08	1620mm(162cm)
155	FOXCONN	WDAN-S1TV1630-DH	-3.73	2.4~2.4835	PIFA	i-pex(MHF)	3.10	1630mm(163cm)
156	FOXCONN	WDAN-S1TV1640-DH	-3.75	2.4~2.4835	PIFA	i-pex(MHF)	3.12	1640mm(164cm)
157	FOXCONN	WDAN-S1TV1650-DH	-3.77	2.4~2.4835	PIFA	i-pex(MHF)	3.14	1650mm(165cm)
158	FOXCONN	WDAN-S1TV1660-DH	-3.78	2.4~2.4835	PIFA	i-pex(MHF)	3.15	1660mm(166cm)
159	FOXCONN	WDAN-S1TV1670-DH	-3.80	2.4~2.4835	PIFA	i-pex(MHF)	3.17	1670mm(167cm)
160	FOXCONN	WDAN-S1TV1680-DH	-3.82	2.4~2.4835	PIFA	i-pex(MHF)	3.19	1680mm(168cm)

161	FOXCONN	WDAN-S1TV1690-DH	-3.84	2.4~2.4835	PIFA	i-pex(MHF)	3.21	1690mm(169cm)
162	FOXCONN	WDAN-S1TV1700-DH	-3.86	2.4~2.4835	PIFA	i-pex(MHF)	3.23	1700mm(170cm)
163	FOXCONN	WDAN-S1TV1710-DH	-3.88	2.4~2.4835	PIFA	i-pex(MHF)	3.25	1710mm(171cm)
164	FOXCONN	WDAN-S1TV1720-DH	-3.90	2.4~2.4835	PIFA	i-pex(MHF)	3.27	1720mm(172cm)
165	FOXCONN	WDAN-S1TV1730-DH	-3.92	2.4~2.4835	PIFA	i-pex(MHF)	3.29	1730mm(173cm)
166	FOXCONN	WDAN-S1TV1740-DH	-3.94	2.4~2.4835	PIFA	i-pex(MHF)	3.31	1740mm(174cm)
167	FOXCONN	WDAN-S1TV1750-DH	-3.96	2.4~2.4835	PIFA	i-pex(MHF)	3.33	1750mm(175cm)
168	FOXCONN	WDAN-S1TV1760-DH	-3.97	2.4~2.4835	PIFA	i-pex(MHF)	3.34	1760mm(176cm)
169	FOXCONN	WDAN-S1TV1770-DH	-3.99	2.4~2.4835	PIFA	i-pex(MHF)	3.36	1770mm(177cm)
170	FOXCONN	WDAN-S1TV1780-DH	-4.01	2.4~2.4835	PIFA	i-pex(MHF)	3.38	1780mm(178cm)
171	FOXCONN	WDAN-S1TV1790-DH	-4.03	2.4~2.4835	PIFA	i-pex(MHF)	3.40	1790mm(179cm)
172	FOXCONN	WDAN-S1TV1800-DH	-4.05	2.4~2.4835	PIFA	i-pex(MHF)	3.42	1800mm(180cm)
173	FOXCONN	WDAN-S1TV2000-DH	-4.43	2.4~2.4835	PIFA	i-pex(MHF)	3.80	2000mm(200cm)
174	FOXCONN	ANTS2M1-CSG50-EF	2.58	2.4~2.4835	PIFA	i-pex(MHF)	0.25	100mm(10cm)
175	FOXCONN	ANTS2M1-CSG51-EF	2.55	2.4~2.4835	PIFA	i-pex(MHF)	0.28	110mm(11cm)
176	FOXCONN	ANTS2M1-CSG52-EF	2.53	2.4~2.4835	PIFA	i-pex(MHF)	0.31	120mm(12cm)
177	FOXCONN	ANTS2M1-CSG53-EF	2.50	2.4~2.4835	PIFA	i-pex(MHF)	0.33	130mm(13cm)
178	FOXCONN	ANTS2M1-CSG54-EF	2.48	2.4~2.4835	PIFA	i-pex(MHF)	0.36	140mm(14cm)
179	FOXCONN	ANTS2M1-CSG55-EF	2.45	2.4~2.4835	PIFA	i-pex(MHF)	0.38	150mm(15cm)
180	FOXCONN	ANTS2M1-CSG56-EF	2.43	2.4~2.4835	PIFA	i-pex(MHF)	0.41	160mm(16cm)
181	FOXCONN	ANTS2M1-CSG57-EF	2.40	2.4~2.4835	PIFA	i-pex(MHF)	0.43	170mm(17cm)
182	FOXCONN	ANTS2M1-CSG58-EF	2.38	2.4~2.4835	PIFA	i-pex(MHF)	0.46	180mm(18cm)
183	FOXCONN	ANTS2M1-CSG59-EF	2.35	2.4~2.4835	PIFA	i-pex(MHF)	0.48	190mm(19cm)
184	FOXCONN	ANTS2M1-CSG60-EF	2.33	2.4~2.4835	PIFA	i-pex(MHF)	0.51	200mm(20cm)
185	FOXCONN	ANTS2M1-CSG61-EF	2.30	2.4~2.4835	PIFA	i-pex(MHF)	0.53	210mm(21cm)
186	FOXCONN	ANTS2M1-CSG62-EF	2.27	2.4~2.4835	PIFA	i-pex(MHF)	0.56	220mm(22cm)
187	FOXCONN	ANTS2M1-CSG63-EF	2.25	2.4~2.4835	PIFA	i-pex(MHF)	0.58	230mm(23cm)
188	FOXCONN	ANTS2M1-CSG64-EF	2.22	2.4~2.4835	PIFA	i-pex(MHF)	0.61	240mm(24cm)
189	FOXCONN	ANTS2M1-CSG65-EF	2.20	2.4~2.4835	PIFA	i-pex(MHF)	0.64	250mm(25cm)
190	FOXCONN	ANTS2M1-CSG66-EF	2.17	2.4~2.4835	PIFA	i-pex(MHF)	0.66	260mm(26cm)
191	FOXCONN	ANTS2M1-CSG67-EF	2.15	2.4~2.4835	PIFA	i-pex(MHF)	0.69	270mm(27cm)
192	FOXCONN	ANTS2M1-CSG68-EF	2.12	2.4~2.4835	PIFA	i-pex(MHF)	0.71	280mm(28cm)
193	FOXCONN	ANTS2M1-CSG69-EF	2.10	2.4~2.4835	PIFA	i-pex(MHF)	0.74	290mm(29cm)
194	FOXCONN	ANTS2M1-CSG70-EF	2.07	2.4~2.4835	PIFA	i-pex(MHF)	0.76	300mm(30cm)
195	FOXCONN	ANTS2M1-CSG71-EF	2.05	2.4~2.4835	PIFA	i-pex(MHF)	0.79	310mm(31cm)
196	FOXCONN	ANTS2M1-CSG72-EF	2.02	2.4~2.4835	PIFA	i-pex(MHF)	0.81	320mm(32cm)

197	FOXCONN	ANTS2M1-CSG73-EF	2.00	2.4~2.4835	PIFA	i-pex(MHF)	0.84	330mm(33cm)
198	FOXCONN	ANTS2M1-CSG74-EF	1.97	2.4~2.4835	PIFA	i-pex(MHF)	0.86	340mm(34cm)
199	FOXCONN	ANTS2M1-CSG75-EF	1.94	2.4~2.4835	PIFA	i-pex(MHF)	0.89	350mm(35cm)
200	FOXCONN	ANTS2M1-CSG76-EF	1.92	2.4~2.4835	PIFA	i-pex(MHF)	0.92	360mm(36cm)
201	FOXCONN	ANTS2M1-CSG77-EF	1.89	2.4~2.4835	PIFA	i-pex(MHF)	0.94	370mm(37cm)
202	FOXCONN	ANTS2M1-CSG78-EF	1.87	2.4~2.4835	PIFA	i-pex(MHF)	0.97	380mm(38cm)
203	FOXCONN	ANTS2M1-CSG79-EF	1.84	2.4~2.4835	PIFA	i-pex(MHF)	0.99	390mm(39cm)
204	FOXCONN	ANTS2M1-CSG80-EF	1.82	2.4~2.4835	PIFA	i-pex(MHF)	1.02	400mm(40cm)
205	FOXCONN	ANTS2M1-CSG81-EF	1.79	2.4~2.4835	PIFA	i-pex(MHF)	1.04	410mm(41cm)
206	FOXCONN	ANTS2M1-CSG82-EF	1.77	2.4~2.4835	PIFA	i-pex(MHF)	1.07	420mm(42cm)
207	FOXCONN	ANTS2M1-CSG83-EF	1.74	2.4~2.4835	PIFA	i-pex(MHF)	1.09	430mm(43cm)
208	FOXCONN	ANTS2M1-CSG84-EF	1.72	2.4~2.4835	PIFA	i-pex(MHF)	1.12	440mm(44cm)
209	FOXCONN	ANTS2M1-CSG85-EF	1.69	2.4~2.4835	PIFA	i-pex(MHF)	1.14	450mm(45cm)
210	FOXCONN	ANTS2M1-CSG86-EF	1.66	2.4~2.4835	PIFA	i-pex(MHF)	1.17	460mm(46cm)
211	FOXCONN	ANTS2M1-CSG87-EF	1.64	2.4~2.4835	PIFA	i-pex(MHF)	1.19	470mm(47cm)
212	FOXCONN	ANTS2M1-CSG88-EF	1.61	2.4~2.4835	PIFA	i-pex(MHF)	1.22	480mm(48cm)
213	FOXCONN	ANTS2M1-CSG89-EF	1.59	2.4~2.4835	PIFA	i-pex(MHF)	1.25	490mm(49cm)
214	FOXCONN	ANTS2M1-CSG90-EF	1.56	2.4~2.4835	PIFA	i-pex(MHF)	1.27	500mm(50cm)
215	FOXCONN	ANTS2M1-CSG91-EF	1.54	2.4~2.4835	PIFA	i-pex(MHF)	1.30	510mm(51cm)
216	FOXCONN	ANTS2M1-CSG92-EF	1.51	2.4~2.4835	PIFA	i-pex(MHF)	1.32	520mm(52cm)
217	FOXCONN	ANTS2M1-CSG93-EF	1.49	2.4~2.4835	PIFA	i-pex(MHF)	1.35	530mm(53cm)
218	FOXCONN	ANTS2M1-CSG94-EF	1.46	2.4~2.4835	PIFA	i-pex(MHF)	1.37	540mm(54cm)
219	FOXCONN	ANTS2M1-CSG95-EF	1.44	2.4~2.4835	PIFA	i-pex(MHF)	1.40	550mm(55cm)
220	FOXCONN	ANTS2M1-CSG96-EF	1.41	2.4~2.4835	PIFA	i-pex(MHF)	1.42	560mm(56cm)
221	FOXCONN	ANTS2M1-CSG97-EF	1.39	2.4~2.4835	PIFA	i-pex(MHF)	1.45	570mm(57cm)
222	FOXCONN	ANTS2M1-CSG98-EF	1.37	2.4~2.4835	PIFA	i-pex(MHF)	1.46	575mm(57.5cm)
223	FOXCONN	ANTS2M1-CSG99-EF	1.36	2.4~2.4835	PIFA	i-pex(MHF)	1.47	580mm(58cm)
224	FOXCONN	ANTS2M1-CSGA0-EF	1.33	2.4~2.4835	PIFA	i-pex(MHF)	1.50	590mm(59cm)
225	FOXCONN	ANTS2M1-CSGA1-EF	1.31	2.4~2.4835	PIFA	i-pex(MHF)	1.53	600mm(60cm)
226	FOXCONN	ANTS2M1-CSGA2-EF	1.28	2.4~2.4835	PIFA	i-pex(MHF)	1.55	610mm(61cm)
227	FOXCONN	ANTS2M1-CSGA3-EF	1.26	2.4~2.4835	PIFA	i-pex(MHF)	1.58	620mm(62cm)
228	FOXCONN	ANTS2M1-CSGA4-EF	1.23	2.4~2.4835	PIFA	i-pex(MHF)	1.60	630mm(63cm)
229	FOXCONN	ANTS2M1-CSGA5-EF	1.21	2.4~2.4835	PIFA	i-pex(MHF)	1.63	640mm(64cm)
230	FOXCONN	ANTS2M1-CSGA6-EF	1.18	2.4~2.4835	PIFA	i-pex(MHF)	1.65	650mm(65cm)
231	FOXCONN	ANTS2M1-CSGA7-EF	1.16	2.4~2.4835	PIFA	i-pex(MHF)	1.68	660mm(66cm)
232	FOXCONN	ANTS2M1-CSGA8-EF	1.13	2.4~2.4835	PIFA	i-pex(MHF)	1.70	670mm(67cm)
233	FOXCONN	ANTS2M1-CSGA9-EF	1.11	2.4~2.4835	PIFA	i-pex(MHF)	1.73	680mm(68cm)
234	FOXCONN	ANTS2M1-CSGB0-EF	1.08	2.4~2.4835	PIFA	i-pex(MHF)	1.75	690mm(69cm)
235	FOXCONN	ANTS2M1-CSGB1-EF	1.05	2.4~2.4835	PIFA	i-pex(MHF)	1.78	700mm(70cm)
236	FOXCONN	ANTS2M1-CSGB2-EF	1.03	2.4~2.4835	PIFA	i-pex(MHF)	1.80	710mm(71cm)
237	FOXCONN	ANTS2M1-CSGB3-EF	1.00	2.4~2.4835	PIFA	i-pex(MHF)	1.83	720mm(72cm)
238	FOXCONN	ANTS2M1-CSGB4-EF	0.98	2.4~2.4835	PIFA	i-pex(MHF)	1.86	730mm(73cm)

239	FOXCONN	ANTS2M1-CSGB5-EF	0.95	2.4~2.4835	PIFA	i-pex(MHF)	1.88	740mm(74cm)
240	FOXCONN	ANTS2M1-CSGB6-EF	0.93	2.4~2.4835	PIFA	i-pex(MHF)	1.91	750mm(75cm)
241	FOXCONN	ANTS2M1-CSGB7-EF	0.90	2.4~2.4835	PIFA	i-pex(MHF)	1.93	760mm(76cm)
242	FOXCONN	ANTS2M1-CSGB8-EF	0.88	2.4~2.4835	PIFA	i-pex(MHF)	1.96	770mm(77cm)
243	FOXCONN	ANTS2M1-CSGB9-EF	0.85	2.4~2.4835	PIFA	i-pex(MHF)	1.98	780mm(78cm)
244	FOXCONN	ANTS2M1-CSGC0-EF	0.83	2.4~2.4835	PIFA	i-pex(MHF)	2.01	790mm(79cm)
245	FOXCONN	ANTS2M1-CSGC1-EF	0.80	2.4~2.4835	PIFA	i-pex(MHF)	2.03	800mm(80cm)
246	FOXCONN	ANTS2M1-CSGC2-EF	0.78	2.4~2.4835	PIFA	i-pex(MHF)	2.06	810mm(81cm)
247	FOXCONN	ANTS2M1-CSGC3-EF	0.75	2.4~2.4835	PIFA	i-pex(MHF)	2.08	820mm(82cm)
248	FOXCONN	ANTS2M1-CSGC4-EF	0.72	2.4~2.4835	PIFA	i-pex(MHF)	2.11	830mm(83cm)
249	FOXCONN	ANTS2M1-CSGC5-EF	0.70	2.4~2.4835	PIFA	i-pex(MHF)	2.14	840mm(84cm)
250	FOXCONN	ANTS2M1-CSGC6-EF	0.67	2.4~2.4835	PIFA	i-pex(MHF)	2.16	850mm(85cm)
251	FOXCONN	ANTS2M1-CSGC7-EF	0.65	2.4~2.4835	PIFA	i-pex(MHF)	2.19	860mm(86cm)
252	FOXCONN	ANTS2M1-CSGC8-EF	0.62	2.4~2.4835	PIFA	i-pex(MHF)	2.21	870mm(87cm)
253	FOXCONN	ANTS2M1-CSGC9-EF	0.60	2.4~2.4835	PIFA	i-pex(MHF)	2.24	880mm(88cm)
254	FOXCONN	ANTS2M1-CSGD0-EF	0.57	2.4~2.4835	PIFA	i-pex(MHF)	2.26	890mm(89cm)
255	FOXCONN	ANTS2M1-CSGD1-EF	0.55	2.4~2.4835	PIFA	i-pex(MHF)	2.29	900mm(90cm)
256	FOXCONN	ANTS2M1-CSGD2-EF	0.52	2.4~2.4835	PIFA	i-pex(MHF)	2.31	910mm(91cm)
257	FOXCONN	ANTS2M1-CSGD3-EF	0.50	2.4~2.4835	PIFA	i-pex(MHF)	2.34	920mm(92cm)
258	FOXCONN	ANTS2M1-CSGD4-EF	0.47	2.4~2.4835	PIFA	i-pex(MHF)	2.36	930mm(93cm)
259	FOXCONN	ANTS2M1-CSGD5-EF	0.44	2.4~2.4835	PIFA	i-pex(MHF)	2.39	940mm(94cm)
260	FOXCONN	ANTS2M1-CSGD6-EF	0.42	2.4~2.4835	PIFA	i-pex(MHF)	2.42	950mm(95cm)
261	FOXCONN	ANTS2M1-CSGD7-EF	0.39	2.4~2.4835	PIFA	i-pex(MHF)	2.44	960mm(96cm)
262	FOXCONN	ANTS2M1-CSGD8-EF	0.37	2.4~2.4835	PIFA	i-pex(MHF)	2.47	970mm(97cm)
263	FOXCONN	ANTS2M1-CSGD9-EF	0.34	2.4~2.4835	PIFA	i-pex(MHF)	2.49	980mm(98cm)
264	FOXCONN	ANTS2M1-CSGE0-EF	0.32	2.4~2.4835	PIFA	i-pex(MHF)	2.52	990mm(99cm)
265	FOXCONN	ANTS2M1-CSGE1-EF	0.29	2.4~2.4835	PIFA	i-pex(MHF)	2.54	1000mm(100cm)
266	FOXCONN	ANTS2M1-CSGE2-EF	0.27	2.4~2.4835	PIFA	i-pex(MHF)	2.57	1010mm(101cm)
267	FOXCONN	ANTS2M1-CSGE3-EF	0.24	2.4~2.4835	PIFA	i-pex(MHF)	2.59	1020mm(102cm)
268	FOXCONN	ANTS2M1-CSGE4-EF	0.22	2.4~2.4835	PIFA	i-pex(MHF)	2.62	1030mm(103cm)
269	FOXCONN	ANTS2M1-CSGE5-EF	0.19	2.4~2.4835	PIFA	i-pex(MHF)	2.64	1040mm(104cm)
270	FOXCONN	ANTS2M1-CSGE6-EF	0.17	2.4~2.4835	PIFA	i-pex(MHF)	2.67	1050mm(105cm)
271	FOXCONN	ANTS2M1-CSGE7-EF	0.14	2.4~2.4835	PIFA	i-pex(MHF)	2.69	1060mm(106cm)
272	FOXCONN	ANTS2M1-CSGE8-EF	0.11	2.4~2.4835	PIFA	i-pex(MHF)	2.72	1070mm(107cm)
273	FOXCONN	ANTS2M1-CSGE9-EF	0.09	2.4~2.4835	PIFA	i-pex(MHF)	2.75	1080mm(108cm)
274	FOXCONN	ANTS2M1-CSGF0-EF	0.06	2.4~2.4835	PIFA	i-pex(MHF)	2.77	1090mm(109cm)
275	FOXCONN	ANTS2M1-CSGF1-EF	0.04	2.4~2.4835	PIFA	i-pex(MHF)	2.80	1100mm(110cm)

276	FOXCONN	ANTS2M1-CSGF2-EF	0.01	2.4~2.4835	PIFA	i-pex(MHF)	2.82	1110mm(111cm)
277	FOXCONN	ANTS2M1-CSGF3-EF	-0.01	2.4~2.4835	PIFA	i-pex(MHF)	2.85	1120mm(112cm)
278	FOXCONN	ANTS2M1-CSGF4-EF	-0.04	2.4~2.4835	PIFA	i-pex(MHF)	2.87	1130mm(113cm)
279	FOXCONN	ANTS2M1-CSGF5-EF	-0.06	2.4~2.4835	PIFA	i-pex(MHF)	2.90	1140mm(114cm)
280	FOXCONN	ANTS2M1-CSGF6-EF	-0.09	2.4~2.4835	PIFA	i-pex(MHF)	2.92	1150mm(115cm)
281	FOXCONN	ANTS2M1-CSGF7-EF	-0.11	2.4~2.4835	PIFA	i-pex(MHF)	2.95	1160mm(116cm)
282	FOXCONN	ANTS2M1-CSGF8-EF	-0.14	2.4~2.4835	PIFA	i-pex(MHF)	2.97	1170mm(117cm)
283	FOXCONN	ANTS2M1-CSGF9-EF	-0.17	2.4~2.4835	PIFA	i-pex(MHF)	3.00	1180mm(118cm)
284	FOXCONN	ANTS2M1-CSGG0-EF	-0.19	2.4~2.4835	PIFA	i-pex(MHF)	3.03	1190mm(119cm)
285	FOXCONN	ANTS2M1-CSGG1-EF	-0.22	2.4~2.4835	PIFA	i-pex(MHF)	3.05	1200mm(120cm)
286	FOXCONN	ANTS2M1-CSGG2-EF	-0.24	2.4~2.4835	PIFA	i-pex(MHF)	3.08	1210mm(121cm)
287	FOXCONN	ANTS2M1-CSGG3-EF	-0.27	2.4~2.4835	PIFA	i-pex(MHF)	3.10	1220mm(122cm)
288	FOXCONN	ANTS2M1-CSGG4-EF	-0.29	2.4~2.4835	PIFA	i-pex(MHF)	3.13	1230mm(123cm)
289	FOXCONN	ANTS2M1-CSGG5-EF	-0.32	2.4~2.4835	PIFA	i-pex(MHF)	3.15	1240mm(124cm)
290	FOXCONN	ANTS2M1-CSGG6-EF	-0.34	2.4~2.4835	PIFA	i-pex(MHF)	3.18	1250mm(125cm)
291	FOXCONN	ANTS2M1-CSGG7-EF	-0.37	2.4~2.4835	PIFA	i-pex(MHF)	3.20	1260mm(126cm)
292	FOXCONN	ANTS2M1-CSGG8-EF	-0.39	2.4~2.4835	PIFA	i-pex(MHF)	3.23	1270mm(127cm)
293	FOXCONN	ANTS2M1-CSGG9-EF	-0.42	2.4~2.4835	PIFA	i-pex(MHF)	3.25	1280mm(128cm)
294	FOXCONN	ANTS2M1-CSGH0-EF	-0.45	2.4~2.4835	PIFA	i-pex(MHF)	3.28	1290mm(129cm)
295	FOXCONN	ANTS2M1-CSGH1-EF	-0.47	2.4~2.4835	PIFA	i-pex(MHF)	3.30	1300mm(130cm)
296	FOXCONN	ANTS2M1-CSGH2-EF	-0.50	2.4~2.4835	PIFA	i-pex(MHF)	3.33	1310mm(131cm)
297	FOXCONN	ANTS2M1-CSGH3-EF	-0.52	2.4~2.4835	PIFA	i-pex(MHF)	3.36	1320mm(132cm)
298	FOXCONN	ANTS2M1-CSGH4-EF	-0.55	2.4~2.4835	PIFA	i-pex(MHF)	3.38	1330mm(133cm)
299	FOXCONN	ANTS2M1-CSGH5-EF	-0.57	2.4~2.4835	PIFA	i-pex(MHF)	3.41	1340mm(134cm)
300	FOXCONN	ANTS2M1-CSGH6-EF	-0.60	2.4~2.4835	PIFA	i-pex(MHF)	3.43	1350mm(135cm)
301	FOXCONN	ANTS2M1-CSGH7-EF	-0.62	2.4~2.4835	PIFA	i-pex(MHF)	3.46	1360mm(136cm)
302	FOXCONN	ANTS2M1-CSGH8-EF	-0.65	2.4~2.4835	PIFA	i-pex(MHF)	3.48	1370mm(137cm)
303	FOXCONN	ANTS2M1-CSGH9-EF	-0.67	2.4~2.4835	PIFA	i-pex(MHF)	3.51	1380mm(138cm)

304	FOXCONN	ANTS2M1-CSGN0-EF	-0.70	2.4~2.4835	PIFA	i-pex(MHF)	3.53	1390mm(139cm)
305	FOXCONN	ANTS2M1-CSGN1-EF	-0.72	2.4~2.4835	PIFA	i-pex(MHF)	3.56	1400mm(140cm)
306	FOXCONN	ANTS2M1-CSGN2-EF	-0.75	2.4~2.4835	PIFA	i-pex(MHF)	3.58	1410mm(141cm)
307	FOXCONN	ANTS2M1-CSGN3-EF	-0.78	2.4~2.4835	PIFA	i-pex(MHF)	3.61	1420mm(142cm)
308	FOXCONN	ANTS2M1-CSGN4-EF	-0.80	2.4~2.4835	PIFA	i-pex(MHF)	3.64	1430mm(143cm)
309	FOXCONN	ANTS2M1-CSGN5-EF	-0.83	2.4~2.4835	PIFA	i-pex(MHF)	3.66	1440mm(144cm)
310	FOXCONN	ANTS2M1-CSGN6-EF	-0.85	2.4~2.4835	PIFA	i-pex(MHF)	3.69	1450mm(145cm)
311	FOXCONN	ANTS2M1-CSGN7-EF	-0.88	2.4~2.4835	PIFA	i-pex(MHF)	3.71	1460mm(146cm)
312	FOXCONN	ANTS2M1-CSGN8-EF	-0.90	2.4~2.4835	PIFA	i-pex(MHF)	3.74	1470mm(147cm)
313	FOXCONN	ANTS2M1-CSGN9-EF	-0.93	2.4~2.4835	PIFA	i-pex(MHF)	3.76	1480mm(148cm)
314	FOXCONN	ANTS2M1-CSGJ0-EF	-0.95	2.4~2.4835	PIFA	i-pex(MHF)	3.79	1490mm(149cm)
315	FOXCONN	ANTS2M1-CSGJ1-EF	-0.98	2.4~2.4835	PIFA	i-pex(MHF)	3.81	1500mm(150cm)
316	FOXCONN	ANTS2M1-CSGJ2-EF	-1.00	2.4~2.4835	PIFA	i-pex(MHF)	3.84	1510mm(151cm)
317	FOXCONN	ANTS2M1-CSGJ3-EF	-1.03	2.4~2.4835	PIFA	i-pex(MHF)	3.86	1520mm(152cm)
318	FOXCONN	ANTS2M1-CSGJ4-EF	-1.06	2.4~2.4835	PIFA	i-pex(MHF)	3.89	1530mm(153cm)
319	FOXCONN	ANTS2M1-CSGJ5-EF	-1.08	2.4~2.4835	PIFA	i-pex(MHF)	3.91	1540mm(154cm)
320	FOXCONN	ANTS2M1-CSGJ6-EF	-1.11	2.4~2.4835	PIFA	i-pex(MHF)	3.94	1550mm(155cm)
321	FOXCONN	ANTS2M1-CSGJ7-EF	-1.13	2.4~2.4835	PIFA	i-pex(MHF)	3.97	1560mm(156cm)
322	FOXCONN	ANTS2M1-CSGJ8-EF	-1.16	2.4~2.4835	PIFA	i-pex(MHF)	3.99	1570mm(157cm)
323	FOXCONN	ANTS2M1-CSGJ9-EF	-1.18	2.4~2.4835	PIFA	i-pex(MHF)	4.02	1580mm(158cm)
324	FOXCONN	ANTS2M1-CSGK0-EF	-1.21	2.4~2.4835	PIFA	i-pex(MHF)	4.04	1590mm(159cm)
325	FOXCONN	ANTS2M1-CSGK1-EF	-1.23	2.4~2.4835	PIFA	i-pex(MHF)	4.07	1600mm(160cm)
326	FOXCONN	ANTS2M1-CSGK2-EF	-1.26	2.4~2.4835	PIFA	i-pex(MHF)	4.09	1610mm(161cm)
327	FOXCONN	ANTS2M1-CSGK3-EF	-1.28	2.4~2.4835	PIFA	i-pex(MHF)	4.12	1620mm(162cm)
328	FOXCONN	ANTS2M1-CSGK4-EF	-1.31	2.4~2.4835	PIFA	i-pex(MHF)	4.14	1630mm(163cm)
329	FOXCONN	ANTS2M1-CSGK5-EF	-1.33	2.4~2.4835	PIFA	i-pex(MHF)	4.17	1640mm(164cm)
330	FOXCONN	ANTS2M1-CSGK6-EF	-1.36	2.4~2.4835	PIFA	i-pex(MHF)	4.19	1650mm(165cm)
331	FOXCONN	ANTS2M1-CSGK7-EF	-1.39	2.4~2.4835	PIFA	i-pex(MHF)	4.22	1660mm(166cm)

332	FOXCONN	ANTS2M1-CSGK8-EF	-1.41	2.4~2.4835	PIFA	i-pex(MHF)	4.25	1670mm(167cm)
333	FOXCONN	ANTS2M1-CSGK9-EF	-1.44	2.4~2.4835	PIFA	i-pex(MHF)	4.27	1680mm(168cm)
334	FOXCONN	ANTS2M1-CSGL0-EF	-1.46	2.4~2.4835	PIFA	i-pex(MHF)	4.30	1690mm(169cm)
335	FOXCONN	ANTS2M1-CSGL1-EF	-1.49	2.4~2.4835	PIFA	i-pex(MHF)	4.32	1700mm(170cm)
336	FOXCONN	ANTS2M1-CSGL2-EF	-1.51	2.4~2.4835	PIFA	i-pex(MHF)	4.35	1710mm(171cm)
337	FOXCONN	ANTS2M1-CSGL3-EF	-1.54	2.4~2.4835	PIFA	i-pex(MHF)	4.37	1720mm(172cm)
338	FOXCONN	ANTS2M1-CSGL4-EF	-1.56	2.4~2.4835	PIFA	i-pex(MHF)	4.40	1730mm(173cm)
339	FOXCONN	ANTS2M1-CSGL5-EF	-1.59	2.4~2.4835	PIFA	i-pex(MHF)	4.42	1740mm(174cm)
340	FOXCONN	ANTS2M1-CSGL6-EF	-1.61	2.4~2.4835	PIFA	i-pex(MHF)	4.45	1750mm(175cm)
341	FOXCONN	ANTS2M1-CSGL7-EF	-1.64	2.4~2.4835	PIFA	i-pex(MHF)	4.47	1760mm(176cm)
342	FOXCONN	ANTS2M1-CSGL8-EF	-1.67	2.4~2.4835	PIFA	i-pex(MHF)	4.50	1770mm(177cm)
343	FOXCONN	ANTS2M1-CSGL9-EF	-1.69	2.4~2.4835	PIFA	i-pex(MHF)	4.52	1780mm(178cm)
344	FOXCONN	ANTS2M1-CSGM0-EF	-1.72	2.4~2.4835	PIFA	i-pex(MHF)	4.55	1790mm(179cm)
345	FOXCONN	ANTS2M1-CSGM1-EF	-1.74	2.4~2.4835	PIFA	i-pex(MHF)	4.58	1800mm(180cm)
346	FOXCONN	ANTS2M1-CSGM2-EF	-2.25	2.4~2.4835	PIFA	i-pex(MHF)	5.08	2000mm(200cm)
347	SAA	SN6506-11-010-C	-2.92	2.4~2.4835	PIFA	i-pex(MHF)	0.50	100mm(10cm)
348	SAA	SN6506-11-011-C	-2.95	2.4~2.4835	PIFA	i-pex(MHF)	0.53	110mm(11cm)
349	SAA	SN6506-11-012-C	-2.97	2.4~2.4835	PIFA	i-pex(MHF)	0.55	120mm(12cm)
350	SAA	SN6506-11-013-C	-3.00	2.4~2.4835	PIFA	i-pex(MHF)	0.58	130mm(13cm)
351	SAA	SN6506-11-014-C	-3.03	2.4~2.4835	PIFA	i-pex(MHF)	0.61	140mm(14cm)
352	SAA	SN6506-11-015-C	-3.05	2.4~2.4835	PIFA	i-pex(MHF)	0.63	150mm(15cm)
353	SAA	SN6506-11-016-C	-3.08	2.4~2.4835	PIFA	i-pex(MHF)	0.66	160mm(16cm)
354	SAA	SN6506-11-017-C	-3.11	2.4~2.4835	PIFA	i-pex(MHF)	0.69	170mm(17cm)
355	SAA	SN6506-11-018-C	-3.13	2.4~2.4835	PIFA	i-pex(MHF)	0.71	180mm(18cm)
356	SAA	SN6506-11-019-C	-3.16	2.4~2.4835	PIFA	i-pex(MHF)	0.74	190mm(19cm)
357	SAA	SN6506-11-020-C	-3.19	2.4~2.4835	PIFA	i-pex(MHF)	0.77	200mm(20cm)
358	SAA	SN6506-11-021-C	-3.21	2.4~2.4835	PIFA	i-pex(MHF)	0.79	210mm(21cm)
359	SAA	SN6506-11-022-C	-3.24	2.4~2.4835	PIFA	i-pex(MHF)	0.82	220mm(22cm)
360	SAA	SN6506-11-023-C	-3.27	2.4~2.4835	PIFA	i-pex(MHF)	0.85	230mm(23cm)
361	SAA	SN6506-11-024-C	-3.29	2.4~2.4835	PIFA	i-pex(MHF)	0.87	240mm(24cm)
362	SAA	SN6506-11-025-C	-3.32	2.4~2.4835	PIFA	i-pex(MHF)	0.90	250mm(25cm)
363	SAA	SN6506-11-026-C	-3.35	2.4~2.4835	PIFA	i-pex(MHF)	0.93	260mm(26cm)
364	SAA	SN6506-11-027-C	-3.37	2.4~2.4835	PIFA	i-pex(MHF)	0.95	270mm(27cm)
365	SAA	SN6506-11-028-C	-3.40	2.4~2.4835	PIFA	i-pex(MHF)	0.98	280mm(28cm)
366	SAA	SN6506-11-029-C	-3.43	2.4~2.4835	PIFA	i-pex(MHF)	1.01	290mm(29cm)

367	SAA	SN6506-11-030-C	-3.48	2.4~2.4835	PIFA	i-pex(MHF)	1.06	300mm(30cm)
368	SAA	SN6506-11-031-C	-3.50	2.4~2.4835	PIFA	i-pex(MHF)	1.08	310mm(31cm)
369	SAA	SN6506-11-032-C	-3.53	2.4~2.4835	PIFA	i-pex(MHF)	1.11	320mm(32cm)
370	SAA	SN6506-11-033-C	-3.56	2.4~2.4835	PIFA	i-pex(MHF)	1.14	330mm(33cm)
371	SAA	SN6506-11-034-C	-3.58	2.4~2.4835	PIFA	i-pex(MHF)	1.16	340mm(34cm)
372	SAA	SN6506-11-035-C	-3.61	2.4~2.4835	PIFA	i-pex(MHF)	1.19	350mm(35cm)
373	SAA	SN6506-11-036-C	-3.63	2.4~2.4835	PIFA	i-pex(MHF)	1.21	360mm(36cm)
374	SAA	SN6506-11-037-C	-3.66	2.4~2.4835	PIFA	i-pex(MHF)	1.24	370mm(37cm)
375	SAA	SN6506-11-038-C	-3.69	2.4~2.4835	PIFA	i-pex(MHF)	1.27	380mm(38cm)
376	SAA	SN6506-11-039-C	-3.71	2.4~2.4835	PIFA	i-pex(MHF)	1.29	390mm(39cm)
377	SAA	SN6506-11-040-C	-3.74	2.4~2.4835	PIFA	i-pex(MHF)	1.32	400mm(40cm)
378	SAA	SN6506-11-041-C	-3.77	2.4~2.4835	PIFA	i-pex(MHF)	1.35	410mm(41cm)
379	SAA	SN6506-11-042-C	-3.79	2.4~2.4835	PIFA	i-pex(MHF)	1.37	420mm(42cm)
380	SAA	SN6506-11-043-C	-3.82	2.4~2.4835	PIFA	i-pex(MHF)	1.40	430mm(43cm)
381	SAA	SN6506-11-044-C	-3.85	2.4~2.4835	PIFA	i-pex(MHF)	1.43	440mm(44cm)
382	SAA	SN6506-11-045-C	-3.87	2.4~2.4835	PIFA	i-pex(MHF)	1.45	450mm(45cm)
383	SAA	SN6506-11-046-C	-3.90	2.4~2.4835	PIFA	i-pex(MHF)	1.48	460mm(46cm)
384	SAA	SN6506-11-047-C	-3.92	2.4~2.4835	PIFA	i-pex(MHF)	1.50	470mm(47cm)
385	SAA	SN6506-11-048-C	-3.95	2.4~2.4835	PIFA	i-pex(MHF)	1.53	480mm(48cm)
386	SAA	SN6506-11-049-C	-3.98	2.4~2.4835	PIFA	i-pex(MHF)	1.56	490mm(49cm)
387	SAA	SN6506-11-050-C	-4.00	2.4~2.4835	PIFA	i-pex(MHF)	1.58	500mm(50cm)
388	SAA	SN6506-11-051-C	-4.03	2.4~2.4835	PIFA	i-pex(MHF)	1.61	510mm(51cm)
389	SAA	SN6506-11-052-C	-4.06	2.4~2.4835	PIFA	i-pex(MHF)	1.64	520mm(52cm)
390	SAA	SN6506-11-053-C	-4.08	2.4~2.4835	PIFA	i-pex(MHF)	1.66	530mm(53cm)
391	SAA	SN6506-11-054-C	-4.11	2.4~2.4835	PIFA	i-pex(MHF)	1.69	540mm(54cm)
392	SAA	SN6506-11-055-C	-4.13	2.4~2.4835	PIFA	i-pex(MHF)	1.71	550mm(55cm)
393	SAA	SN6506-11-056-C	-4.16	2.4~2.4835	PIFA	i-pex(MHF)	1.74	560mm(56cm)
394	SAA	SN6506-11-057-C	-4.19	2.4~2.4835	PIFA	i-pex(MHF)	1.77	575mm(57.5cm)
395	SAA	SN6506-11-058-C	-4.21	2.4~2.4835	PIFA	i-pex(MHF)	1.79	580mm(58cm)
396	SAA	SN6506-11-059-C	-4.24	2.4~2.4835	PIFA	i-pex(MHF)	1.82	590mm(59cm)
397	SAA	SN6506-11-060-C	-4.27	2.4~2.4835	PIFA	i-pex(MHF)	1.85	600mm(60cm)
398	SAA	SN6506-11-061-C	-4.29	2.4~2.4835	PIFA	i-pex(MHF)	1.87	610mm(61cm)
399	SAA	SN6506-11-062-C	-4.32	2.4~2.4835	PIFA	i-pex(MHF)	1.90	620mm(62cm)
400	SAA	SN6506-11-063-C	-4.35	2.4~2.4835	PIFA	i-pex(MHF)	1.93	630mm(63cm)
401	SAA	SN6506-11-064-C	-4.37	2.4~2.4835	PIFA	i-pex(MHF)	1.95	640mm(64cm)
402	SAA	SN6506-11-065-C	-4.40	2.4~2.4835	PIFA	i-pex(MHF)	1.98	650mm(65cm)
403	SAA	SN6506-11-066-C	-4.42	2.4~2.4835	PIFA	i-pex(MHF)	2.00	660mm(66cm)
404	SAA	SN6506-11-067-C	-4.45	2.4~2.4835	PIFA	i-pex(MHF)	2.03	670mm(67cm)
405	SAA	SN6506-11-068-C	-4.48	2.4~2.4835	PIFA	i-pex(MHF)	2.06	680mm(68cm)
406	SAA	SN6506-11-069-C	-4.50	2.4~2.4835	PIFA	i-pex(MHF)	2.08	690mm(69cm)
407	SAA	SN6506-11-070-C	-4.53	2.4~2.4835	PIFA	i-pex(MHF)	2.11	700mm(70cm)
408	SAA	SN6506-11-071-C	-4.56	2.4~2.4835	PIFA	i-pex(MHF)	2.14	710mm(71cm)

409	SAA	SN6506-11-072-C	-4.58	2.4~2.4835	PIFA	i-pex(MHF)	2.16	720mm(72cm)
410	SAA	SN6506-11-073-C	-4.61	2.4~2.4835	PIFA	i-pex(MHF)	2.19	730mm(73cm)
411	SAA	SN6506-11-074-C	-4.63	2.4~2.4835	PIFA	i-pex(MHF)	2.21	740mm(74cm)
412	SAA	SN6506-11-075-C	-4.66	2.4~2.4835	PIFA	i-pex(MHF)	2.24	750mm(75cm)
413	SAA	SN6506-11-076-C	-4.69	2.4~2.4835	PIFA	i-pex(MHF)	2.27	760mm(76cm)
414	SAA	SN6506-11-077-C	-4.71	2.4~2.4835	PIFA	i-pex(MHF)	2.29	770mm(77cm)
415	SAA	SN6506-11-078-C	-4.74	2.4~2.4835	PIFA	i-pex(MHF)	2.32	780mm(78cm)
416	SAA	SN6506-11-079-C	-4.77	2.4~2.4835	PIFA	i-pex(MHF)	2.35	790mm(79cm)
417	SAA	SN6506-11-080-C	-4.79	2.4~2.4835	PIFA	i-pex(MHF)	2.37	800mm(80cm)
418	SAA	SN6506-11-081-C	-4.82	2.4~2.4835	PIFA	i-pex(MHF)	2.40	810mm(81cm)
419	SAA	SN6506-11-082-C	-4.85	2.4~2.4835	PIFA	i-pex(MHF)	2.43	820mm(82cm)
420	SAA	SN6506-11-083-C	-4.87	2.4~2.4835	PIFA	i-pex(MHF)	2.45	830mm(83cm)
421	SAA	SN6506-11-084-C	-4.90	2.4~2.4835	PIFA	i-pex(MHF)	2.48	840mm(84cm)
422	SAA	SN6506-11-085-C	-4.92	2.4~2.4835	PIFA	i-pex(MHF)	2.50	850mm(85cm)
423	SAA	SN6506-11-086-C	-4.95	2.4~2.4835	PIFA	i-pex(MHF)	2.53	860mm(86cm)
424	SAA	SN6506-11-087-C	-4.98	2.4~2.4835	PIFA	i-pex(MHF)	2.56	870mm(87cm)
425	SAA	SN6506-11-088-C	-5.00	2.4~2.4835	PIFA	i-pex(MHF)	2.58	880mm(88cm)
426	SAA	SN6506-11-089-C	-5.03	2.4~2.4835	PIFA	i-pex(MHF)	2.61	890mm(89cm)
427	SAA	SN6506-11-090-C	-5.06	2.4~2.4835	PIFA	i-pex(MHF)	2.64	900mm(90cm)
428	SAA	SN6506-11-091-C	-5.08	2.4~2.4835	PIFA	i-pex(MHF)	2.66	910mm(91cm)
429	SAA	SN6506-11-092-C	-5.11	2.4~2.4835	PIFA	i-pex(MHF)	2.69	920mm(92cm)
430	SAA	SN6506-11-093-C	-5.13	2.4~2.4835	PIFA	i-pex(MHF)	2.71	930mm(93cm)
431	SAA	SN6506-11-094-C	-5.16	2.4~2.4835	PIFA	i-pex(MHF)	2.74	940mm(94cm)
432	SAA	SN6506-11-095-C	-5.19	2.4~2.4835	PIFA	i-pex(MHF)	2.77	950mm(95cm)
433	SAA	SN6506-11-096-C	-5.21	2.4~2.4835	PIFA	i-pex(MHF)	2.79	960mm(96cm)
434	SAA	SN6506-11-097-C	-5.24	2.4~2.4835	PIFA	i-pex(MHF)	2.82	970mm(97cm)
435	SAA	SN6506-11-098-C	-5.27	2.4~2.4835	PIFA	i-pex(MHF)	2.85	980mm(98cm)
436	SAA	SN6506-11-099-C	-5.29	2.4~2.4835	PIFA	i-pex(MHF)	2.87	990mm(99cm)
437	SAA	SN6506-11-100-C	-5.32	2.4~2.4835	PIFA	i-pex(MHF)	2.90	1000mm(100cm)
438	SAA	SN6506-11-101-C	-5.35	2.4~2.4835	PIFA	i-pex(MHF)	2.93	1010mm(101cm)
439	SAA	SN6506-11-102-C	-5.37	2.4~2.4835	PIFA	i-pex(MHF)	2.95	1020mm(102cm)
440	SAA	SN6506-11-103-C	-5.40	2.4~2.4835	PIFA	i-pex(MHF)	2.98	1030mm(103cm)
441	SAA	SN6506-11-104-C	-5.42	2.4~2.4835	PIFA	i-pex(MHF)	3.00	1040mm(104cm)
442	SAA	SN6506-11-105-C	-5.45	2.4~2.4835	PIFA	i-pex(MHF)	3.03	1050mm(105cm)
443	SAA	SN6506-11-106-C	-5.48	2.4~2.4835	PIFA	i-pex(MHF)	3.06	1060mm(106cm)
444	SAA	SN6506-11-107-C	-5.50	2.4~2.4835	PIFA	i-pex(MHF)	3.08	1070mm(107cm)
445	SAA	SN6506-11-108-C	-5.53	2.4~2.4835	PIFA	i-pex(MHF)	3.11	1080mm(108cm)

446	SAA	SN6506-11-109-C	-5.56	2.4~2.4835	PIFA	i-pex(MHF)	3.14	1090mm(109cm)
447	SAA	SN6506-11-110-C	-5.58	2.4~2.4835	PIFA	i-pex(MHF)	3.16	1100mm(110cm)
448	SAA	SN6506-11-111-C	-5.61	2.4~2.4835	PIFA	i-pex(MHF)	3.19	1110mm(111cm)
449	SAA	SN6506-11-112-C	-5.63	2.4~2.4835	PIFA	i-pex(MHF)	3.21	1120mm(112cm)
450	SAA	SN6506-11-113-C	-5.66	2.4~2.4835	PIFA	i-pex(MHF)	3.24	1130mm(113cm)
451	SAA	SN6506-11-114-C	-5.69	2.4~2.4835	PIFA	i-pex(MHF)	3.27	1140mm(114cm)
452	SAA	SN6506-11-115-C	-5.71	2.4~2.4835	PIFA	i-pex(MHF)	3.29	1150mm(115cm)
453	SAA	SN6506-11-116-C	-5.74	2.4~2.4835	PIFA	i-pex(MHF)	3.32	1160mm(116cm)
454	SAA	SN6506-11-117-C	-5.77	2.4~2.4835	PIFA	i-pex(MHF)	3.35	1170mm(117cm)
455	SAA	SN6506-11-118-C	-5.79	2.4~2.4835	PIFA	i-pex(MHF)	3.37	1180mm(118cm)
456	SAA	SN6506-11-119-C	-5.82	2.4~2.4835	PIFA	i-pex(MHF)	3.40	1190mm(119cm)
457	SAA	SN6506-11-120-C	-5.85	2.4~2.4835	PIFA	i-pex(MHF)	3.43	1200mm(120cm)
458	SAA	SN6506-11-121-C	-5.87	2.4~2.4835	PIFA	i-pex(MHF)	3.45	1210mm(121cm)
459	SAA	SN6506-11-122-C	-5.90	2.4~2.4835	PIFA	i-pex(MHF)	3.48	1220mm(122cm)
460	SAA	SN6506-11-123-C	-5.92	2.4~2.4835	PIFA	i-pex(MHF)	3.50	1230mm(123cm)
461	SAA	SN6506-11-124-C	-5.95	2.4~2.4835	PIFA	i-pex(MHF)	3.53	1240mm(124cm)
462	SAA	SN6506-11-125-C	-5.98	2.4~2.4835	PIFA	i-pex(MHF)	3.56	1250mm(125cm)
463	SAA	SN6506-11-126-C	-6.00	2.4~2.4835	PIFA	i-pex(MHF)	3.58	1260mm(126cm)
464	SAA	SN6506-11-127-C	-6.03	2.4~2.4835	PIFA	i-pex(MHF)	3.61	1270mm(127cm)
465	SAA	SN6506-11-128-C	-6.06	2.4~2.4835	PIFA	i-pex(MHF)	3.64	1280mm(128cm)
466	SAA	SN6506-11-129-C	-6.08	2.4~2.4835	PIFA	i-pex(MHF)	3.66	1290mm(129cm)
467	SAA	SN6506-11-130-C	-6.11	2.4~2.4835	PIFA	i-pex(MHF)	3.69	1300mm(130cm)
468	SAA	SN6506-11-131-C	-6.13	2.4~2.4835	PIFA	i-pex(MHF)	3.71	1310mm(131cm)
469	SAA	SN6506-11-132-C	-6.16	2.4~2.4835	PIFA	i-pex(MHF)	3.74	1320mm(132cm)
470	SAA	SN6506-11-133-C	-6.19	2.4~2.4835	PIFA	i-pex(MHF)	3.77	1330mm(133cm)
471	SAA	SN6506-11-134-C	-6.21	2.4~2.4835	PIFA	i-pex(MHF)	3.79	1340mm(134cm)
472	SAA	SN6506-11-135-C	-6.24	2.4~2.4835	PIFA	i-pex(MHF)	3.82	1350mm(135cm)
473	SAA	SN6506-11-136-C	-6.27	2.4~2.4835	PIFA	i-pex(MHF)	3.85	1360mm(136cm)

474	SAA	SN6506-11-137-C	-6.29	2.4~2.4835	PIFA	i-pex(MHF)	3.87	1370mm(137cm)
475	SAA	SN6506-11-138-C	-6.32	2.4~2.4835	PIFA	i-pex(MHF)	3.90	1380mm(138cm)
476	SAA	SN6506-11-139-C	-6.35	2.4~2.4835	PIFA	i-pex(MHF)	3.93	1390mm(139cm)
477	SAA	SN6506-11-140-C	-6.37	2.4~2.4835	PIFA	i-pex(MHF)	3.95	1400mm(140cm)
478	SAA	SN6506-11-141-C	-6.40	2.4~2.4835	PIFA	i-pex(MHF)	3.98	1410mm(141cm)
479	SAA	SN6506-11-142-C	-6.42	2.4~2.4835	PIFA	i-pex(MHF)	4.00	1420mm(142cm)
480	SAA	SN6506-11-143-C	-6.45	2.4~2.4835	PIFA	i-pex(MHF)	4.03	1430mm(143cm)
481	SAA	SN6506-11-144-C	-6.48	2.4~2.4835	PIFA	i-pex(MHF)	4.06	1440mm(144cm)
482	SAA	SN6506-11-145-C	-6.50	2.4~2.4835	PIFA	i-pex(MHF)	4.08	1450mm(145cm)
483	SAA	SN6506-11-146-C	-6.53	2.4~2.4835	PIFA	i-pex(MHF)	4.11	1460mm(146cm)
484	SAA	SN6506-11-147-C	-6.56	2.4~2.4835	PIFA	i-pex(MHF)	4.14	1470mm(147cm)
485	SAA	SN6506-11-148-C	-6.58	2.4~2.4835	PIFA	i-pex(MHF)	4.16	1480mm(148cm)
486	SAA	SN6506-11-149-C	-6.61	2.4~2.4835	PIFA	i-pex(MHF)	4.19	1490mm(149cm)
487	SAA	SN6506-11-150-C	-6.63	2.4~2.4835	PIFA	i-pex(MHF)	4.21	1500mm(150cm)
488	SAA	SN6506-11-151-C	-6.66	2.4~2.4835	PIFA	i-pex(MHF)	4.24	1510mm(151cm)
489	SAA	SN6506-11-152-C	-6.69	2.4~2.4835	PIFA	i-pex(MHF)	4.27	1520mm(152cm)
490	SAA	SN6506-11-153-C	-6.71	2.4~2.4835	PIFA	i-pex(MHF)	4.29	1530mm(153cm)
491	SAA	SN6506-11-154-C	-6.74	2.4~2.4835	PIFA	i-pex(MHF)	4.32	1540mm(154cm)
492	SAA	SN6506-11-155-C	-6.77	2.4~2.4835	PIFA	i-pex(MHF)	4.35	1550mm(155cm)
493	SAA	SN6506-11-156-C	-6.79	2.4~2.4835	PIFA	i-pex(MHF)	4.37	1560mm(156cm)
494	SAA	SN6506-11-157-C	-6.82	2.4~2.4835	PIFA	i-pex(MHF)	4.40	1570mm(157cm)
495	SAA	SN6506-11-158-C	-6.85	2.4~2.4835	PIFA	i-pex(MHF)	4.43	1580mm(158cm)
496	SAA	SN6506-11-159-C	-6.87	2.4~2.4835	PIFA	i-pex(MHF)	4.45	1590mm(159cm)
497	SAA	SN6506-11-160-C	-6.90	2.4~2.4835	PIFA	i-pex(MHF)	4.48	1600mm(160cm)
498	SAA	SN6506-11-161-C	-6.92	2.4~2.4835	PIFA	i-pex(MHF)	4.50	1610mm(161cm)
499	SAA	SN6506-11-162-C	-6.95	2.4~2.4835	PIFA	i-pex(MHF)	4.53	1620mm(162cm)
500	SAA	SN6506-11-163-C	-6.98	2.4~2.4835	PIFA	i-pex(MHF)	4.56	1630mm(163cm)
501	SAA	SN6506-11-164-C	-7.00	2.4~2.4835	PIFA	i-pex(MHF)	4.58	1640mm(164cm)

502	SAA	SN6506-11-165-C	-7.03	2.4~2.4835	PIFA	i-pex(MHF)	4.61	1650mm(165cm)
503	SAA	SN6506-11-166-C	-7.06	2.4~2.4835	PIFA	i-pex(MHF)	4.64	1660mm(166cm)
504	SAA	SN6506-11-167-C	-7.08	2.4~2.4835	PIFA	i-pex(MHF)	4.66	1670mm(167cm)
505	SAA	SN6506-11-168-C	-7.11	2.4~2.4835	PIFA	i-pex(MHF)	4.69	1680mm(168cm)
506	SAA	SN6506-11-169-C	-7.13	2.4~2.4835	PIFA	i-pex(MHF)	4.71	1690mm(169cm)
507	SAA	SN6506-11-170-C	-7.16	2.4~2.4835	PIFA	i-pex(MHF)	4.74	1700mm(170cm)
508	SAA	SN6506-11-171-C	-7.19	2.4~2.4835	PIFA	i-pex(MHF)	4.77	1710mm(171cm)
509	SAA	SN6506-11-172-C	-7.21	2.4~2.4835	PIFA	i-pex(MHF)	4.79	1720mm(172cm)
510	SAA	SN6506-11-173-C	-7.24	2.4~2.4835	PIFA	i-pex(MHF)	4.82	1730mm(173cm)
511	SAA	SN6506-11-174-C	-7.27	2.4~2.4835	PIFA	i-pex(MHF)	4.85	1740mm(174cm)
512	SAA	SN6506-11-175-C	-7.29	2.4~2.4835	PIFA	i-pex(MHF)	4.87	1750mm(175cm)
513	SAA	SN6506-11-176-C	-7.32	2.4~2.4835	PIFA	i-pex(MHF)	4.90	1760mm(176cm)
514	SAA	SN6506-11-177-C	-7.35	2.4~2.4835	PIFA	i-pex(MHF)	4.93	1770mm(177cm)
515	SAA	SN6506-11-178-C	-7.37	2.4~2.4835	PIFA	i-pex(MHF)	4.95	1780mm(178cm)
516	SAA	SN6506-11-179-C	-7.40	2.4~2.4835	PIFA	i-pex(MHF)	4.98	1790mm(179cm)
517	SAA	SN6506-11-180-C	-7.42	2.4~2.4835	PIFA	i-pex(MHF)	5.00	1800mm(180cm)
518	SAA	SN6506-11-200-C	-8.31	2.4~2.4835	PIFA	i-pex(MHF)	5.50	2000mm(200cm)

For WLAN used

Antenna Set.	PCB Chain	Brand	Model	Antenna Gain(dBi)	Frequency range (GHz-GHz)	Antenna Type
1	Chain 0	Foxconn Corp.(FIT)	ANTS2M2-CZZ04-EF	1.3	2.4~2.5	Metal PIFA
				3.61	5.15~5.35	
				3.69	5.47~5.725	
				3.06	5.725~5.850	
	Chain 1	Foxconn Corp.(FIT)	ANTS2M2-CZZ03-EF	3.32	2.4~2.5	Metal PIFA
				1.92	5.15~5.35	
				2	5.47~5.725	
				-0.84	5.725~5.850	

6. The EUT incorporates a MIMO function.

2.4GHz Band			
MODULATION MODE	**DATA RATE (MCS)**	**TX & RX CONFIGURATION**	
802.11b	1 ~ 11Mbps	2TX	2RX
802.11g	6 ~ 54Mbps	2TX	2RX
802.11n (HT20)	MCS 0~7	2TX	2RX
	MCS 8~15	2TX	2RX
5GHz Band			
MODULATION MODE	**DATA RATE (MCS)**	**TX & RX CONFIGURATION**	
802.11a	6 ~ 54Mbps	2TX	2RX
802.11n (HT20)	MCS 0~7	2TX	2RX
	MCS 8~15	2TX	2RX
802.11n (HT40)	MCS 0~7	2TX	2RX
	MCS 8~15	2TX	2RX
802.11ac (VHT20)	MCS0~8 Nss=1	2TX	2RX
	MCS0~8 Nss=2	2TX	2RX
802.11ac (VHT40)	MCS0~9 Nss=1	2TX	2RX
	MCS0~9 Nss=2	2TX	2RX
802.11ac (VHT80)	MCS0~9 Nss=1	2TX	2RX
	MCS0~9 Nss=2	2TX	2RX
Note: The modulation and bandwidth are similar for 802.11n mode for 20MHz (40MHz) and 802.11ac mode for 20MHz (40MHz), therefore investigated worst case to representative mode in test report. (Final test mode refer section 3.2.1)			

7. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

3.2 Description of Test Modes

FOR 5180 ~ 5240MHz

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

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

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

Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency
42	5210MHz

FOR 5260 ~ 5320MHz

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

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

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

Channel	Frequency	Channel	Frequency
54	5270 MHz	62	5310 MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency
58	5290MHz

FOR 5500 ~ 5700MHz

11 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

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

5 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency	Channel	Frequency
102	5510 MHz	126	5630 MHz
110	5550 MHz	134	5670 MHz
118	5590 MHz		

2 channels are provided for 802.11ac (VHT80):

Channel	Frequency	Channel	Frequency
106	5530MHz	122	5610 MHz

FOR 5745 ~ 5825MHz:

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

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

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

Channel	Frequency	Channel	Frequency
151	5755MHz	159	5795MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency
155	5775MHz

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable To				Description
	RE≥1G	RE<1G	PLC	APCM	
-	√	√	√	√	-

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

NOTE:
1. The EUT's antenna had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **X-plane**.

Radiated Emission Test (Above 1GHz):

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

Mode	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	BPSK	6
802.11ac (VHT20)		36 to 48	36, 40, 48	OFDM	BPSK	6.5
802.11ac (VHT40)		38 to 46	38, 46	OFDM	BPSK	13.5
802.11ac (VHT80)		42	42	OFDM	BPSK	29.3
802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	BPSK	6
802.11ac (VHT20)		52 to 64	52, 60, 64	OFDM	BPSK	6.5
802.11ac (VHT40)		54 to 62	54, 62	OFDM	BPSK	13.5
802.11ac (VHT80)		58	58	OFDM	BPSK	29.3
802.11a	5500-5700	100 to 140	100, 116, 140	OFDM	BPSK	6
802.11ac (VHT20)		100 to 140	100, 116, 140	OFDM	BPSK	6.5
802.11ac (VHT40)		102 to 134	102, 110, 134	OFDM	BPSK	13.5
802.11ac (VHT80)		106 to 122	106, 122	OFDM	BPSK	29.3
802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	BPSK	6
802.11ac (VHT20)		149 to 165	149, 157, 165	OFDM	BPSK	6.5
802.11ac (VHT40)		151 to 159	151, 159	OFDM	BPSK	13.5
802.11ac (VHT80)		155	155	OFDM	BPSK	29.3

Radiated Emission Test (Below 1GHz):

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

Mode	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
802.11a	5745-5825	149 to 165	157	OFDM	BPSK	6

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.

Mode	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
802.11a	5745-5825	149 to 165	157	OFDM	BPSK	6

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.

Mode	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	BPSK	6
802.11ac (VHT20)		36 to 48	36, 40, 48	OFDM	BPSK	6.5
802.11ac (VHT40)		38 to 46	38, 46	OFDM	BPSK	13.5
802.11ac (VHT80)		42	42	OFDM	BPSK	29.3
802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	BPSK	6
802.11ac (VHT20)		52 to 64	52, 60, 64	OFDM	BPSK	6.5
802.11ac (VHT40)		54 to 62	54, 62	OFDM	BPSK	13.5
802.11ac (VHT80)		58	58	OFDM	BPSK	29.3
802.11a	5500-5700	100 to 140	100, 116, 140	OFDM	BPSK	6
802.11ac (VHT20)		100 to 140	100, 116, 140	OFDM	BPSK	6.5
802.11ac (VHT40)		102 to 134	102, 110, 134	OFDM	BPSK	13.5
802.11ac (VHT80)		106 to 122	106, 122	OFDM	BPSK	29.3
802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	BPSK	6
802.11ac (VHT20)		149 to 165	149, 157, 165	OFDM	BPSK	6.5
802.11ac (VHT40)		151 to 159	151, 159	OFDM	BPSK	13.5
802.11ac (VHT80)		155	155	OFDM	BPSK	29.3

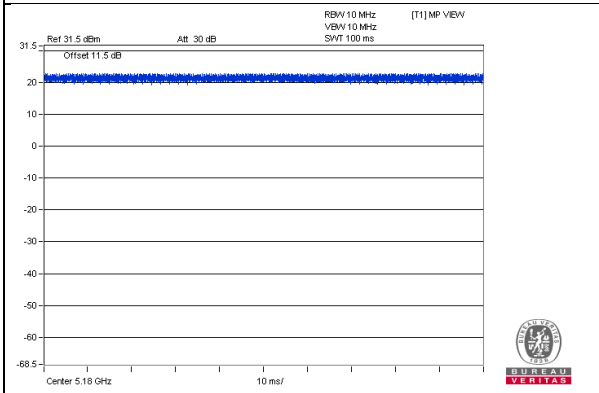
Test Condition:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE≥1G	21deg. C, 69%RH	120Vac, 60Hz	Russell Yeh
RE<1G	24deg. C, 74%RH	120Vac, 60Hz	Russell Yeh
PLC	23deg. C, 72%RH	120Vac, 60Hz	Arthur Yang
APCM	23deg. C, 66%RH	120Vac, 60Hz	Anderson Chen

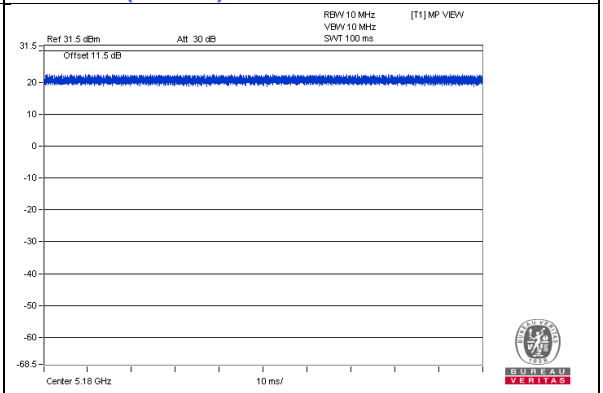
3.3 Duty Cycle of Test Signal

Duty cycle of test signal is 100 %, duty factor is not required.

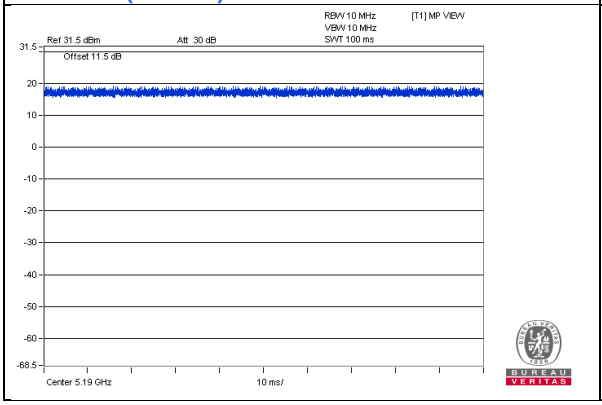
802.11a



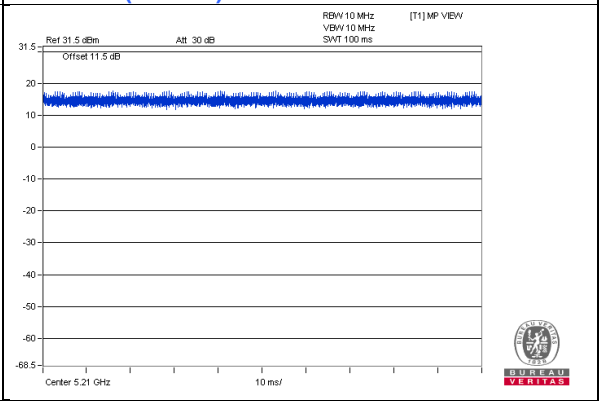
802.11ac (VHT20)



802.11ac (VHT40)



802.11ac (VHT80)



3.4 Description of Support Units

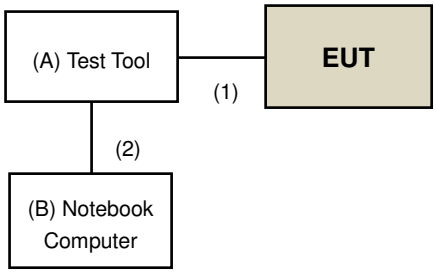
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Test Tool	NA	NA	NA	NA	Supplied by client
B.	Notebook Computer	LENOVO	E440	PF071LWC	NA	Provided by Lab

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

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	Console Cable	1	0.1	No	0	Supplied by client
2.	USB Cable	1	1	Yes	0	Provided by Lab

3.4.1 Configuration of System under Test



3.5 General Description of Applied Standard

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

FCC Part 15, Subpart E (15.407)
KDB 789033 D02 General UNII Test Procedure New Rules v01r02
KDB 662911 D01 Multiple Transmitter Output v02r01
ANSI C63.10-2013

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

NOTE: The EUT has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.

4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

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

NOTE:

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

Limits of unwanted emission out of the restricted bands

Applicable To	Limit	
789033 D02 General UNII Test Procedure New Rules v01r02	FIELD STRENGTH at 3m	
	PK:74 (dBµV/m)	AV:54 (dBµV/m)
Applicable To	EIRP Limit	Equivalent Field Strength at 3m
15.407(b)(1)	PK:-27 (dBm/MHz)	PK:68.2(dBµV/m)
15.407(b)(2)		
15.407(b)(3)		
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)	FIELD STRENGTH at 3m / § 15.247(d),	
	PK:74 (dBµV/m)	AV:54 (dBµV/m)

*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:

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

4.1.2 Test Instruments

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver Agilent	N9038A	MY54450088	July 24, 2015	July 23, 2016
Pre-Amplifier(*) EMCI	EMC001340	980142	Jan. 20, 2016	Jan. 19, 2018
Loop Antenna(*) Electro-Metrics	EM-6879	264	Dec. 16, 2014	Dec. 15, 2016
RF Cable	NA	LOOPCAB-001 LOOPCAB-002	Jan. 18, 2016	Jan. 17, 2017
Pre-Amplifier Mini-Circuits	ZFL-1000VH2B	AMP-ZFL-01	Nov. 11, 2015	Nov. 10, 2016
Trilog Broadband Antenna SCHWARZBECK	VULB 9168	9168-406	Jan. 04, 2016	Jan. 03, 2017
RF Cable	8D	966-4-1 966-4-2 966-4-3	Apr. 02, 2016	Apr. 01, 2017
Horn_Antenna SCHWARZBECK	BBHA 9120D	9120D-783	Jan. 19, 2016	Jan. 18, 2017
Pre-Amplifier Agilent	8449B	3008A01922	Sep. 19, 2015	Sep. 18, 2016
RF Cable	EMC104-SM-SM-2000 EMC104-SM-SM-5000 EMC104-SM-SM-5000	150318 150323 150324	Mar. 30, 2016	Mar. 29, 2017
Pre-Amplifier EMCI	EMC184045	980143	Jan. 15, 2016	Jan. 14, 2017
Horn_Antenna SCHWARZBECK	BBHA 9170	BBHA9170608	Jan. 08, 2016	Jan. 07, 2017
RF Cable	SUCOFLEX 102	36432/2 36441/2	Jan. 16, 2016	Jan. 15, 2017
Software	ADT_Radiated_V8.7.07	NA	NA	NA
Antenna Tower & Turn Table Max-Full	MF-7802	MF780208410	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP02	NA	NA
Spectrum Analyzer R&S	FSP40	100060	May 11, 2016	May 10, 2017
Power meter Anritsu	ML2495A	1014008	May 5, 2016	May 4, 2017
Power sensor Anritsu	MA2411B	0917122	May 5, 2016	May 4, 2017
Temperature & Humidity Chamber Giant Force	GTH-150-40-SP-AR	MAA0812-008	Jan. 15, 2016	Jan. 14, 2017

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 calibration interval of the above test instruments is 24 months and the calibrations are traceable to NML/ROC and NIST/USA.
3. The test was performed in 966 Chamber No. 4.
4. The FCC Site Registration No. is 292998
5. The CANADA Site Registration No. is 20331-2
6 Loop antenna was used for all emissions below 30 MHz.
7. Tested Date: May 26 to June 16, 2016

4.1.3 Test Procedure

a. The EUT was placed on the top of a rotating table 0.8 meters (for below 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

f. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

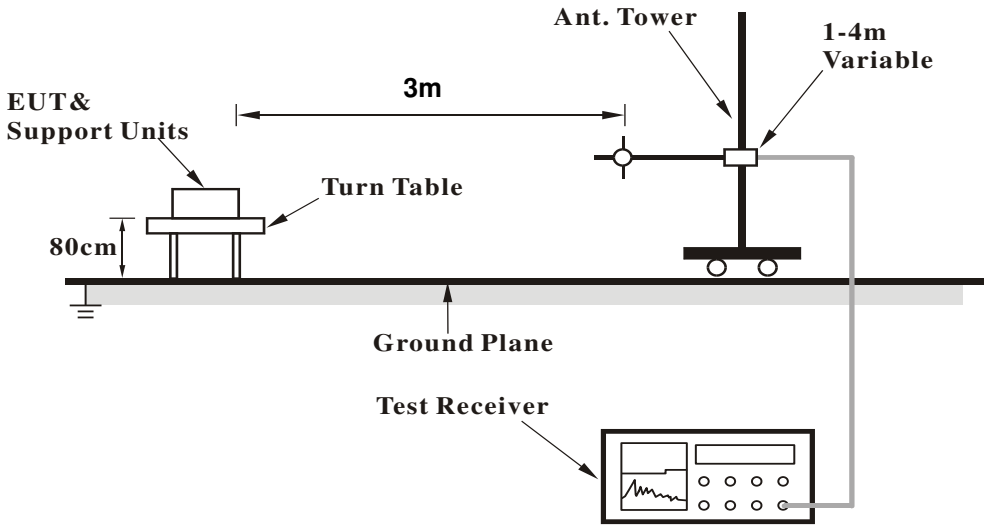
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for RMS Average (Duty cycle < 98%) for Average detection (AV) at frequency above 1GHz, then the measurement results was added to a correction factor (10 log(1/duty cycle)).
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1GHz.
5. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

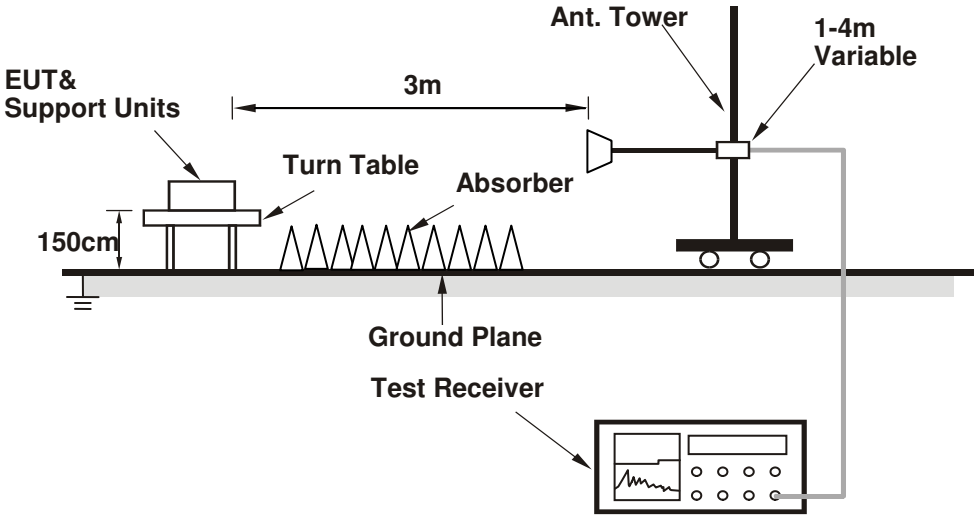
No deviation.

4.1.5 Test Setup

<Frequency Range below 1GHz>



<Frequency Range above 1GHz>



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

4.1.6 EUT Operating Condition

a. Connected the EUT with the Notebook Computer which is placed on remote site.
b. Contorlling software (MT7662UQA.exe[Ver 1.0.3.19]) has been activated to set the EUT on specific status.

4.1.7 Test Results

Above 1GHz Data:

802.11a

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

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	62.30 PK	74.00	-11.70	2.87 H	328	60.70	1.60
2	5150.00	43.90 AV	54.00	-10.10	2.87 H	328	42.30	1.60
3	*5180.00	105.20 PK			2.87 H	328	103.50	1.70
4	*5180.00	95.10 AV			2.87 H	328	93.40	1.70
5	#10360.00	51.00 PK	74.00	-23.00	1.61 H	92	39.30	11.70
6	#10360.00	38.90 AV	54.00	-15.10	1.61 H	92	27.20	11.70
7	15540.00	62.10 PK	74.00	-11.90	3.06 H	248	48.80	13.30
8	15540.00	47.70 AV	54.00	-6.30	3.06 H	248	34.40	13.30
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	63.50 PK	74.00	-10.50	2.94 V	118	61.90	1.60
2	5150.00	46.70 AV	54.00	-7.30	2.94 V	118	45.10	1.60
3	*5180.00	107.70 PK			2.94 V	118	106.00	1.70
4	*5180.00	98.70 AV			2.94 V	118	97.00	1.70
5	#10360.00	51.50 PK	74.00	-22.50	2.49 V	112	39.80	11.70
6	#10360.00	39.50 AV	54.00	-14.50	2.49 V	112	27.80	11.70
7	15540.00	68.70 PK	74.00	-5.30	3.55 V	163	55.40	13.30
8	**15540.00**	**53.90 AV**	**54.00**	**-0.10**	**3.55 V**	**163**	**40.60**	**13.30**

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

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

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	105.50 PK			2.92 H	321	103.70	1.80
2	*5200.00	95.50 AV			2.92 H	321	93.70	1.80
3	#10400.00	51.00 PK	74.00	-23.00	1.62 H	97	39.10	11.90
4	#10400.00	39.10 AV	54.00	-14.90	1.62 H	97	27.20	11.90
5	15600.00	61.90 PK	74.00	-12.10	3.11 H	263	48.60	13.30
6	15600.00	47.80 AV	54.00	-6.20	3.11 H	263	34.50	13.30
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	108.10 PK			2.99 V	133	106.30	1.80
2	*5200.00	99.10 AV			2.99 V	133	97.30	1.80
3	#10400.00	51.40 PK	74.00	-22.60	2.55 V	128	39.50	11.90
4	#10400.00	39.50 AV	54.00	-14.50	2.55 V	128	27.60	11.90
5	15600.00	68.10 PK	74.00	-5.90	3.65 V	166	54.80	13.30
6	15600.00	53.70 AV	54.00	-0.30	3.65 V	166	40.40	13.30

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

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

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	105.70 PK			2.88 H	337	103.90	1.80
2	*5240.00	95.50 AV			2.88 H	337	93.70	1.80
3	#10480.00	50.80 PK	74.00	-23.20	1.66 H	109	38.60	12.20
4	#10480.00	39.00 AV	54.00	-15.00	1.66 H	109	26.80	12.20
5	15720.00	61.60 PK	74.00	-12.40	3.15 H	259	48.40	13.20
6	15720.00	47.70 AV	54.00	-6.30	3.15 H	259	34.50	13.20
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	107.60 PK			2.88 V	133	105.80	1.80
2	*5240.00	98.30 AV			2.88 V	133	96.50	1.80
3	#10480.00	51.20 PK	74.00	-22.80	2.57 V	131	39.00	12.20
4	#10480.00	39.10 AV	54.00	-14.90	2.57 V	131	26.90	12.20
5	15720.00	68.10 PK	74.00	-5.90	3.55 V	163	54.90	13.20
6	**15720.00**	**53.90 AV**	**54.00**	**-0.10**	**3.55 V**	**163**	**40.70**	**13.20**

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

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

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	*5260.00	108.90 PK			2.88 H	313	107.00	1.90
2	*5260.00	98.20 AV			2.88 H	313	96.30	1.90
3	#10520.00	51.00 PK	74.00	-23.00	1.65 H	95	38.50	12.50
4	#10520.00	38.80 AV	54.00	-15.20	1.65 H	95	26.30	12.50
5	15780.00	61.70 PK	74.00	-12.30	3.14 H	261	48.60	13.10
6	15780.00	47.40 AV	54.00	-6.60	3.14 H	261	34.30	13.10
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	*5260.00	111.10 PK			2.92 V	105	109.20	1.90
2	*5260.00	100.90 AV			2.92 V	105	99.00	1.90
3	#10520.00	51.10 PK	74.00	-22.90	2.58 V	135	38.60	12.50
4	#10520.00	39.20 AV	54.00	-14.80	2.58 V	135	26.70	12.50
5	15780.00	69.30 PK	74.00	-4.70	3.93 V	136	56.20	13.10
6	15780.00	53.70 AV	54.00	-0.30	3.93 V	136	40.60	13.10

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

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

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	109.10 PK			2.92 H	327	107.10	2.00
2	*5300.00	98.40 AV			2.92 H	327	96.40	2.00
3	10600.00	51.10 PK	74.00	-22.90	1.63 H	108	38.40	12.70
4	10600.00	39.10 AV	54.00	-14.90	1.63 H	108	26.40	12.70
5	15900.00	61.90 PK	74.00	-12.10	3.15 H	249	48.60	13.30
6	15900.00	47.60 AV	54.00	-6.40	3.15 H	249	34.30	13.30
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	111.30 PK			2.95 V	123	109.30	2.00
2	*5300.00	101.20 AV			2.95 V	123	99.20	2.00
3	10600.00	51.30 PK	74.00	-22.70	2.55 V	135	38.60	12.70
4	10600.00	39.70 AV	54.00	-14.30	2.55 V	135	27.00	12.70
5	15900.00	70.20 PK	74.00	-3.80	3.44 V	152	56.90	13.30
6	15900.00	53.80 AV	54.00	-0.20	3.44 V	152	40.50	13.30

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

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

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	109.10 PK			2.92 H	330	107.10	2.00
2	*5320.00	98.30 AV			2.92 H	330	96.30	2.00
3	5350.00	62.50 PK	74.00	-11.50	2.92 H	330	60.40	2.10
4	5350.00	43.90 AV	54.00	-10.10	2.92 H	330	41.80	2.10
5	10640.00	51.30 PK	74.00	-22.70	1.58 H	84	38.60	12.70
6	10640.00	39.10 AV	54.00	-14.90	1.58 H	84	26.40	12.70
7	15960.00	61.70 PK	74.00	-12.30	3.05 H	255	48.60	13.10
8	15960.00	47.30 AV	54.00	-6.70	3.05 H	255	34.20	13.10
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	111.20 PK			2.94 V	118	109.20	2.00
2	*5320.00	100.90 AV			2.94 V	118	98.90	2.00
3	5350.00	64.00 PK	74.00	-10.00	2.94 V	118	61.90	2.10
4	5350.00	45.80 AV	54.00	-8.20	2.94 V	118	43.70	2.10
5	10640.00	51.30 PK	74.00	-22.70	2.58 V	118	38.60	12.70
6	10640.00	39.30 AV	54.00	-14.70	2.58 V	118	26.60	12.70
7	15960.00	68.10 PK	74.00	-5.90	3.18 V	147	55.00	13.10
8	15960.00	53.70 AV	54.00	-0.30	3.18 V	147	40.60	13.10

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

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

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	#5470.00	51.20 PK	74.00	-22.80	2.90 H	316	48.90	2.30
2	#5470.00	38.50 AV	54.00	-15.50	2.90 H	316	36.20	2.30
3	*5500.00	107.90 PK			2.90 H	316	105.60	2.30
4	*5500.00	97.10 AV			2.90 H	316	94.80	2.30
5	11000.00	51.60 PK	74.00	-22.40	1.56 H	102	38.20	13.40
6	11000.00	39.60 AV	54.00	-14.40	1.56 H	102	26.20	13.40
7	#16500.00	61.90 PK	74.00	-12.10	3.09 H	263	46.30	15.60
8	#16500.00	47.60 AV	54.00	-6.40	3.09 H	263	32.00	15.60
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	#5470.00	54.40 PK	74.00	-19.60	3.20 V	110	52.10	2.30
2	#5470.00	42.30 AV	54.00	-11.70	3.20 V	110	40.00	2.30
3	*5500.00	110.20 PK			3.20 V	110	107.90	2.30
4	*5500.00	99.20 AV			3.20 V	110	96.90	2.30
5	11000.00	51.50 PK	74.00	-22.50	2.60 V	116	38.10	13.40
6	11000.00	39.30 AV	54.00	-14.70	2.60 V	116	25.90	13.40
7	#16500.00	68.30 PK	74.00	-5.70	3.38 V	337	52.70	15.60
8	#16500.00	53.80 AV	54.00	-0.20	3.38 V	337	38.20	15.60

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

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

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	108.30 PK			2.88 H	330	105.80	2.50
2	*5580.00	97.40 AV			2.88 H	330	94.90	2.50
3	11160.00	51.40 PK	74.00	-22.60	1.56 H	93	38.10	13.30
4	11160.00	39.30 AV	54.00	-14.70	1.56 H	93	26.00	13.30
5	#16740.00	61.80 PK	74.00	-12.20	3.16 H	248	45.40	16.40
6	#16740.00	47.90 AV	54.00	-6.10	3.16 H	248	31.50	16.40
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	110.20 PK			3.15 V	117	107.70	2.50
2	*5580.00	99.40 AV			3.15 V	117	96.90	2.50
3	11160.00	51.80 PK	74.00	-22.20	2.54 V	139	38.50	13.30
4	11160.00	39.90 AV	54.00	-14.10	2.54 V	139	26.60	13.30
5	#16740.00	69.20 PK	74.00	-4.80	3.54 V	152	52.80	16.40
6	**#16740.00**	**53.90 AV**	**54.00**	**-0.10**	**3.54 V**	**152**	**37.50**	**16.40**

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

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

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	108.00 PK			2.88 H	333	105.20	2.80
2	*5700.00	97.50 AV			2.88 H	333	94.70	2.80
3	#5725.00	62.00 PK	74.00	-12.00	2.88 H	333	59.20	2.80
4	#5725.00	47.90 AV	54.00	-6.10	2.88 H	333	45.10	2.80
5	11400.00	51.80 PK	74.00	-22.20	2.14 H	99	38.40	13.40
6	11400.00	39.40 AV	54.00	-14.60	2.14 H	99	26.00	13.40
7	#17100.00	56.80 PK	74.00	-17.20	1.59 H	172	38.90	17.90
8	#17100.00	45.40 AV	54.00	-8.60	1.59 H	172	27.50	17.90
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	111.70 PK			3.12 V	110	108.90	2.80
2	*5700.00	101.90 AV			3.12 V	110	99.10	2.80
3	#5725.00	72.60 PK	74.00	-1.40	3.12 V	110	69.80	2.80
4	#5725.00	53.40 AV	54.00	-0.60	3.12 V	110	50.60	2.80
5	11400.00	51.30 PK	74.00	-22.70	2.58 V	138	37.90	13.40
6	11400.00	39.40 AV	54.00	-14.60	2.58 V	138	26.00	13.40
7	#17100.00	68.10 PK	74.00	-5.90	3.66 V	140	50.20	17.90
8	#17100.00	53.10 AV	54.00	-0.90	3.66 V	140	35.20	17.90

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

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

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	#5597.98	54.90 PK	68.20	-13.30	2.91 H	310	52.40	2.50
2	*5745.00	114.60 PK			2.91 H	310	111.80	2.80
3	*5745.00	104.10 AV			2.91 H	310	101.30	2.80
4	#5996.98	55.00 PK	68.20	-13.20	2.91 H	310	51.60	3.40
5	11490.00	50.50 PK	74.00	-23.50	1.60 H	90	37.00	13.50
6	11490.00	38.60 AV	54.00	-15.40	1.60 H	90	25.10	13.50
7	#17235.00	62.40 PK	74.00	-11.60	3.11 H	259	44.00	18.40
8	#17235.00	48.20 AV	54.00	-5.80	3.11 H	259	29.80	18.40
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	54.10 PK	68.20	-14.10	3.42 V	106	51.50	2.60
2	*5745.00	116.60 PK			3.42 V	106	113.80	2.80
3	*5745.00	106.10 AV			3.42 V	106	103.30	2.80
4	#5925.00	53.30 PK	68.20	-14.90	3.42 V	106	50.20	3.10
5	11490.00	51.70 PK	74.00	-22.30	2.51 V	112	38.20	13.50
6	11490.00	39.70 AV	54.00	-14.30	2.51 V	112	26.20	13.50
7	#17235.00	67.20 PK	74.00	-6.80	3.63 V	159	48.80	18.40
8	#17235.00	51.30 AV	54.00	-2.70	3.63 V	159	32.90	18.40

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

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

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	#5609.37	54.20 PK	68.20	-14.00	2.88 H	323	51.60	2.60
2	*5785.00	113.30 PK			2.88 H	323	110.40	2.90
3	*5785.00	103.70 AV			2.88 H	323	100.80	2.90
4	#5982.25	55.10 PK	68.20	-13.10	2.88 H	323	51.80	3.30
5	11570.00	51.50 PK	74.00	-22.50	1.59 H	87	38.30	13.20
6	11570.00	39.50 AV	54.00	-14.50	1.59 H	87	26.30	13.20
7	#17355.00	61.70 PK	74.00	-12.30	3.17 H	277	42.60	19.10
8	#17355.00	47.70 AV	54.00	-6.30	3.17 H	277	28.60	19.10
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	54.70 PK	68.20	-13.50	3.50 V	104	52.10	2.60
2	*5785.00	116.50 PK			3.50 V	104	113.60	2.90
3	*5785.00	106.40 AV			3.50 V	104	103.50	2.90
4	#5925.00	53.50 PK	68.20	-14.70	3.50 V	144	50.40	3.10
5	11570.00	51.70 PK	74.00	-22.30	2.52 V	119	38.50	13.20
6	11570.00	39.90 AV	54.00	-14.10	2.52 V	119	26.70	13.20
7	#17355.00	67.20 PK	74.00	-6.80	3.68 V	161	48.10	19.10
8	#17355.00	51.40 AV	54.00	-2.60	3.68 V	161	32.30	19.10

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

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

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	#5586.10	54.90 PK	68.20	-13.30	2.91 H	331	52.40	2.50
2	*5825.00	115.30 PK			2.91 H	331	112.40	2.90
3	*5825.00	104.30 AV			2.91 H	331	101.40	2.90
4	#5972.75	55.30 PK	68.20	-12.90	2.91 H	331	52.10	3.20
5	11650.00	50.70 PK	74.00	-23.30	1.60 H	86	37.50	13.20
6	11650.00	38.70 AV	54.00	-15.30	1.60 H	86	25.50	13.20
7	#17475.00	61.90 PK	74.00	-12.10	3.15 H	250	42.50	19.40
8	#17475.00	47.70 AV	54.00	-6.30	3.15 H	250	28.30	19.40
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	53.50 PK	68.20	-14.70	3.49 V	102	50.90	2.60
2	*5825.00	116.20 PK			3.49 V	102	113.30	2.90
3	*5825.00	105.90 AV			3.49 V	102	103.00	2.90
4	#5925.00	53.80 PK	68.20	-14.40	3.49 V	102	50.70	3.10
5	11650.00	51.00 PK	74.00	-23.00	2.57 V	120	37.80	13.20
6	11650.00	39.20 AV	54.00	-14.80	2.57 V	120	26.00	13.20
7	#17475.00	66.80 PK	74.00	-7.20	3.59 V	155	47.40	19.40
8	#17475.00	50.80 AV	54.00	-3.20	3.59 V	155	31.40	19.40

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11ac (VHT20)

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

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	62.20 PK	74.00	-11.80	2.86 H	313	60.60	1.60
2	5150.00	44.00 AV	54.00	-10.00	2.86 H	313	42.40	1.60
3	*5180.00	104.80 PK			2.86 H	313	103.10	1.70
4	*5180.00	95.00 AV			2.86 H	313	93.30	1.70
5	#10360.00	51.50 PK	74.00	-22.50	1.67 H	104	39.80	11.70
6	#10360.00	39.40 AV	54.00	-14.60	1.67 H	104	27.70	11.70
7	15540.00	62.20 PK	74.00	-11.80	3.13 H	248	48.90	13.30
8	15540.00	48.10 AV	54.00	-5.90	3.13 H	248	34.80	13.30
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	62.90 PK	74.00	-11.10	2.98 V	124	61.30	1.60
2	5150.00	46.30 AV	54.00	-7.70	2.98 V	124	44.70	1.60
3	*5180.00	107.70 PK			2.98 V	124	106.00	1.70
4	*5180.00	98.90 AV			2.98 V	124	97.20	1.70
5	#10360.00	51.10 PK	74.00	-22.90	2.54 V	129	39.40	11.70
6	#10360.00	39.40 AV	54.00	-14.60	2.54 V	129	27.70	11.70
7	15540.00	69.00 PK	74.00	-5.00	3.60 V	163	55.70	13.30
8	15540.00	53.70 AV	54.00	-0.30	3.60 V	163	40.40	13.30

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

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

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	104.80 PK			2.97 H	325	103.00	1.80
2	*5200.00	94.90 AV			2.97 H	325	93.10	1.80
3	#10400.00	50.50 PK	74.00	-23.50	1.58 H	108	38.60	11.90
4	#10400.00	38.60 AV	54.00	-15.40	1.58 H	108	26.70	11.90
5	15600.00	61.70 PK	74.00	-12.30	3.10 H	264	48.40	13.30
6	15600.00	47.50 AV	54.00	-6.50	3.10 H	264	34.20	13.30
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	108.30 PK			2.95 V	133	106.50	1.80
2	*5200.00	99.20 AV			2.95 V	133	97.40	1.80
3	#10400.00	51.30 PK	74.00	-22.70	2.56 V	125	39.40	11.90
4	#10400.00	39.20 AV	54.00	-14.80	2.56 V	125	27.30	11.90
5	15600.00	67.10 PK	74.00	-6.90	3.30 V	158	53.80	13.30
6	15600.00	53.60 AV	54.00	-0.40	3.30 V	158	40.30	13.30

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

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

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	105.00 PK			2.92 H	333	103.20	1.80
2	*5240.00	95.10 AV			2.92 H	333	93.30	1.80
3	#10480.00	50.40 PK	74.00	-23.60	1.67 H	109	38.20	12.20
4	#10480.00	38.70 AV	54.00	-15.30	1.67 H	109	26.50	12.20
5	15720.00	62.00 PK	74.00	-12.00	3.15 H	273	48.80	13.20
6	15720.00	47.90 AV	54.00	-6.10	3.15 H	273	34.70	13.20
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	108.10 PK			2.96 V	120	106.30	1.80
2	*5240.00	99.20 AV			2.96 V	120	97.40	1.80
3	#10480.00	51.10 PK	74.00	-22.90	2.58 V	138	38.90	12.20
4	#10480.00	39.50 AV	54.00	-14.50	2.58 V	138	27.30	12.20
5	15720.00	67.80 PK	74.00	-6.20	3.56 V	171	54.60	13.20
6	**15720.00**	**53.90 AV**	**54.00**	**-0.10**	**3.56 V**	**171**	**40.70**	**13.20**

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

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

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	*5260.00	109.20 PK			2.97 H	332	107.30	1.90
2	*5260.00	98.70 AV			2.97 H	332	96.80	1.90
3	#10520.00	50.40 PK	74.00	-23.60	1.63 H	109	37.90	12.50
4	#10520.00	38.70 AV	54.00	-15.30	1.63 H	109	26.20	12.50
5	15780.00	62.00 PK	74.00	-12.00	3.12 H	259	48.90	13.10
6	15780.00	48.10 AV	54.00	-5.90	3.12 H	259	35.00	13.10
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	*5260.00	111.20 PK			2.95 V	122	109.30	1.90
2	*5260.00	100.90 AV			2.95 V	122	99.00	1.90
3	#10520.00	51.50 PK	74.00	-22.50	2.60 V	120	39.00	12.50
4	#10520.00	39.90 AV	54.00	-14.10	2.60 V	120	27.40	12.50
5	15780.00	67.00 PK	74.00	-7.00	3.34 V	153	53.90	13.10
6	15780.00	53.60 AV	54.00	-0.40	3.34 V	153	40.50	13.10

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

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

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	108.20 PK			2.92 H	328	106.20	2.00
2	*5300.00	97.80 AV			2.92 H	328	95.80	2.00
3	10600.00	50.70 PK	74.00	-23.30	1.61 H	100	38.00	12.70
4	10600.00	38.80 AV	54.00	-15.20	1.61 H	100	26.10	12.70
5	15900.00	62.30 PK	74.00	-11.70	3.12 H	258	49.00	13.30
6	15900.00	48.20 AV	54.00	-5.80	3.12 H	258	34.90	13.30
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	111.10 PK			2.94 V	133	109.10	2.00
2	*5300.00	101.20 AV			2.94 V	133	99.20	2.00
3	10600.00	50.80 PK	74.00	-23.20	2.57 V	126	38.10	12.70
4	10600.00	39.10 AV	54.00	-14.90	2.57 V	126	26.40	12.70
5	15900.00	70.10 PK	74.00	-3.90	3.84 V	155	56.80	13.30
6	15900.00	53.80 AV	54.00	-0.20	3.84 V	155	40.50	13.30

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

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

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	108.70 PK			2.96 H	335	106.70	2.00
2	*5320.00	98.20 AV			2.96 H	335	96.20	2.00
3	5350.00	62.10 PK	74.00	-11.90	2.96 H	335	60.00	2.10
4	5350.00	43.70 AV	54.00	-10.30	2.96 H	335	41.60	2.10
5	10640.00	50.80 PK	74.00	-23.20	1.57 H	110	38.10	12.70
6	10640.00	38.80 AV	54.00	-15.20	1.57 H	110	26.10	12.70
7	15960.00	62.50 PK	74.00	-11.50	3.05 H	267	49.40	13.10
8	15960.00	48.20 AV	54.00	-5.80	3.05 H	267	35.10	13.10
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	111.40 PK			2.97 V	120	109.40	2.00
2	*5320.00	101.30 AV			2.97 V	120	99.30	2.00
3	5350.00	63.20 PK	74.00	-10.80	2.97 V	120	61.10	2.10
4	5350.00	46.50 AV	54.00	-7.50	2.97 V	120	44.40	2.10
5	10640.00	51.80 PK	74.00	-22.20	2.50 V	122	39.10	12.70
6	10640.00	40.00 AV	54.00	-14.00	2.50 V	122	27.30	12.70
7	15960.00	67.70 PK	74.00	-6.30	3.22 V	154	54.60	13.10
8	15960.00	53.30 AV	54.00	-0.70	3.22 V	154	40.20	13.10

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

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

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	#5470.00	61.80 PK	74.00	-12.20	2.89 H	309	59.50	2.30
2	#5470.00	43.60 AV	54.00	-10.40	2.89 H	309	41.30	2.30
3	*5500.00	107.20 PK			2.89 H	309	104.90	2.30
4	*5500.00	96.60 AV			2.89 H	309	94.30	2.30
5	11000.00	50.90 PK	74.00	-23.10	1.67 H	94	37.50	13.40
6	11000.00	38.80 AV	54.00	-15.20	1.67 H	94	25.40	13.40
7	#16500.00	61.40 PK	74.00	-12.60	3.10 H	251	45.80	15.60
8	#16500.00	47.50 AV	54.00	-6.50	3.10 H	251	31.90	15.60
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	#5470.00	63.00 PK	74.00	-11.00	3.20 V	95	60.70	2.30
2	#5470.00	46.40 AV	54.00	-7.60	3.20 V	95	44.10	2.30
3	*5500.00	110.30 PK			3.20 V	95	108.00	2.30
4	*5500.00	99.30 AV			3.20 V	95	97.00	2.30
5	11000.00	51.20 PK	74.00	-22.80	2.56 V	117	37.80	13.40
6	11000.00	39.20 AV	54.00	-14.80	2.56 V	117	25.80	13.40
7	#16500.00	68.10 PK	74.00	-5.90	3.35 V	333	52.50	15.60
8	#16500.00	53.50 AV	54.00	-0.50	3.35 V	333	37.90	15.60

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

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

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	108.40 PK			2.90 H	323	105.90	2.50
2	*5580.00	97.40 AV			2.90 H	323	94.90	2.50
3	11160.00	51.10 PK	74.00	-22.90	1.57 H	94	37.80	13.30
4	11160.00	39.10 AV	54.00	-14.90	1.57 H	94	25.80	13.30
5	#16740.00	61.50 PK	74.00	-12.50	3.16 H	262	45.10	16.40
6	#16740.00	47.50 AV	54.00	-6.50	3.16 H	262	31.10	16.40
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	110.30 PK			3.16 V	86	107.80	2.50
2	*5580.00	99.00 AV			3.16 V	86	96.50	2.50
3	11160.00	51.90 PK	74.00	-22.10	2.57 V	140	38.60	13.30
4	11160.00	39.80 AV	54.00	-14.20	2.57 V	140	26.50	13.30
5	#16740.00	69.80 PK	74.00	-4.20	3.80 V	147	53.40	16.40
6	#16740.00	53.80 AV	54.00	-0.20	3.80 V	147	37.40	16.40

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

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

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	107.80 PK			2.89 H	308	105.00	2.80
2	*5700.00	97.20 AV			2.89 H	308	94.40	2.80
3	#5725.00	61.40 PK	74.00	-12.60	2.89 H	308	58.60	2.80
4	#5725.00	47.50 AV	54.00	-6.50	2.89 H	308	44.70	2.80
5	11400.00	50.30 PK	74.00	-23.70	1.67 H	107	36.90	13.40
6	11400.00	38.60 AV	54.00	-15.40	1.67 H	107	25.20	13.40
7	#17100.00	62.30 PK	74.00	-11.70	3.17 H	247	44.40	17.90
8	#17100.00	47.90 AV	54.00	-6.10	3.17 H	247	30.00	17.90
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	111.50 PK			3.17 V	114	108.70	2.80
2	*5700.00	101.50 AV			3.17 V	114	98.70	2.80
3	#5725.00	72.10 PK	74.00	-1.90	3.17 V	114	69.30	2.80
4	#5725.00	53.50 AV	54.00	-0.50	3.17 V	114	50.70	2.80
5	11400.00	50.80 PK	74.00	-23.20	2.57 V	138	37.40	13.40
6	11400.00	39.10 AV	54.00	-14.90	2.57 V	138	25.70	13.40
7	#17100.00	68.50 PK	74.00	-5.50	3.69 V	129	50.60	17.90
8	#17100.00	53.20 AV	54.00	-0.80	3.69 V	129	35.30	17.90

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

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

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	#5642.15	54.30 PK	68.20	-13.90	2.88 H	310	51.70	2.60
2	*5745.00	114.20 PK			2.88 H	310	111.40	2.80
3	*5745.00	103.40 AV			2.88 H	310	100.60	2.80
4	#6017.40	56.00 PK	68.20	-12.20	2.88 H	310	52.60	3.40
5	11490.00	51.10 PK	74.00	-22.90	1.65 H	100	37.60	13.50
6	11490.00	39.10 AV	54.00	-14.90	1.65 H	100	25.60	13.50
7	#17235.00	62.50 PK	74.00	-11.50	3.09 H	270	44.10	18.40
8	#17235.00	48.30 AV	54.00	-5.70	3.09 H	270	29.90	18.40
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	53.90 PK	68.20	-14.30	3.48 V	116	51.30	2.60
2	*5745.00	116.40 PK			3.48 V	116	113.60	2.80
3	*5745.00	106.00 AV			3.48 V	116	103.20	2.80
4	#5925.00	53.80 PK	68.20	-14.40	3.48 V	116	50.70	3.10
5	11490.00	51.40 PK	74.00	-22.60	2.55 V	142	37.90	13.50
6	11490.00	39.70 AV	54.00	-14.30	2.55 V	142	26.20	13.50
7	#17235.00	67.80 PK	74.00	-6.20	3.65 V	149	49.40	18.40
8	#17235.00	51.80 AV	54.00	-2.20	3.65 V	149	33.40	18.40

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

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

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	#5574.23	54.60 PK	68.20	-13.60	2.92 H	302	52.10	2.50
2	*5785.00	115.60 PK			2.92 H	309	112.70	2.90
3	*5785.00	103.80 AV			2.92 H	309	100.90	2.90
4	#6015.02	54.80 PK	68.20	-13.40	2.92 H	302	51.40	3.40
5	11570.00	51.40 PK	74.00	-22.60	1.63 H	92	38.20	13.20
6	11570.00	39.40 AV	54.00	-14.60	1.63 H	92	26.20	13.20
7	#17355.00	61.90 PK	74.00	-12.10	3.15 H	267	42.80	19.10
8	#17355.00	47.90 AV	54.00	-6.10	3.15 H	267	28.80	19.10
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	53.90 PK	68.20	-14.30	3.54 V	131	51.30	2.60
2	*5785.00	117.50 PK			3.54 V	131	114.60	2.90
3	*5785.00	106.50 AV			3.54 V	131	103.60	2.90
4	#5925.00	54.20 PK	68.20	-14.00	3.54 V	131	51.10	3.10
5	11570.00	51.20 PK	74.00	-22.80	2.49 V	140	38.00	13.20
6	11570.00	39.10 AV	54.00	-14.90	2.49 V	140	25.90	13.20
7	#17355.00	66.90 PK	74.00	-7.10	3.64 V	153	47.80	19.10
8	#17355.00	51.20 AV	54.00	-2.80	3.64 V	153	32.10	19.10

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

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

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	#5592.75	55.10 PK	68.20	-13.10	2.95 H	329	52.60	2.50
2	*5825.00	116.00 PK			2.95 H	329	113.10	2.90
3	*5825.00	104.00 AV			2.95 H	329	101.10	2.90
4	#5929.05	55.30 PK	68.20	-12.90	2.95 H	329	52.20	3.10
5	11650.00	51.00 PK	74.00	-23.00	1.58 H	109	37.80	13.20
6	11650.00	38.80 AV	54.00	-15.20	1.58 H	109	25.60	13.20
7	#17475.00	62.40 PK	74.00	-11.60	3.13 H	263	43.00	19.40
8	#17475.00	48.20 AV	54.00	-5.80	3.13 H	263	28.80	19.40
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	54.70 PK	68.20	-13.50	3.51 V	0	52.10	2.60
2	*5825.00	118.00 PK			3.51 V	108	115.10	2.90
3	*5825.00	105.90 AV			3.51 V	108	103.00	2.90
4	#5924.77	55.90 PK	68.40	-12.50	3.51 V	0	52.80	3.10
5	11650.00	51.20 PK	74.00	-22.80	2.54 V	135	38.00	13.20
6	11650.00	39.20 AV	54.00	-14.80	2.54 V	135	26.00	13.20
7	#17475.00	67.00 PK	74.00	-7.00	3.68 V	143	47.60	19.40
8	#17475.00	51.10 AV	54.00	-2.90	3.68 V	143	31.70	19.40

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11ac (VHT40)

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

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	61.90 PK	74.00	-12.10	2.87 H	309	60.30	1.60
2	5150.00	48.10 AV	54.00	-5.90	2.87 H	309	46.50	1.60
3	*5190.00	101.70 PK			2.87 H	309	99.90	1.80
4	*5190.00	91.20 AV			2.87 H	309	89.40	1.80
5	#10380.00	51.60 PK	74.00	-22.40	1.60 H	89	39.80	11.80
6	#10380.00	39.50 AV	54.00	-14.50	1.60 H	89	27.70	11.80
7	15570.00	61.60 PK	74.00	-12.40	3.08 H	275	48.30	13.30
8	15570.00	47.50 AV	54.00	-6.50	3.08 H	275	34.20	13.30
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	73.30 PK	74.00	-0.70	3.24 V	102	71.70	1.60
2	5150.00	53.70 AV	54.00	-0.30	3.24 V	102	52.10	1.60
3	*5190.00	104.20 PK			3.24 V	102	102.40	1.80
4	*5190.00	93.80 AV			3.24 V	102	92.00	1.80
5	#10380.00	52.20 PK	74.00	-21.80	2.51 V	127	40.40	11.80
6	#10380.00	40.00 AV	54.00	-14.00	2.51 V	127	28.20	11.80
7	15570.00	65.40 PK	74.00	-8.60	3.58 V	153	52.10	13.30
8	15570.00	51.70 AV	54.00	-2.30	3.58 V	153	38.40	13.30

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

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

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	*5230.00	102.80 PK			2.86 H	327	101.00	1.80
2	*5230.00	92.40 AV			2.86 H	327	90.60	1.80
3	#10460.00	51.10 PK	74.00	-22.90	1.68 H	111	39.00	12.10
4	#10460.00	39.40 AV	54.00	-14.60	1.68 H	111	27.30	12.10
5	15690.00	61.90 PK	74.00	-12.10	3.06 H	255	48.70	13.20
6	15690.00	47.90 AV	54.00	-6.10	3.06 H	255	34.70	13.20
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	*5230.00	105.20 PK			3.29 V	100	103.40	1.80
2	*5230.00	94.70 AV			3.29 V	100	92.90	1.80
3	#10460.00	51.90 PK	74.00	-22.10	2.55 V	115	39.80	12.10
4	#10460.00	40.00 AV	54.00	-14.00	2.55 V	115	27.90	12.10
5	15690.00	66.90 PK	74.00	-7.10	3.63 V	159	53.70	13.20
6	**15690.00**	**53.90 AV**	**54.00**	**-0.10**	**3.63 V**	**159**	**40.70**	**13.20**

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

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

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	102.80 PK			2.95 H	337	100.80	2.00
2	*5270.00	92.30 AV			2.95 H	337	90.30	2.00
3	#10540.00	51.70 PK	74.00	-22.30	1.58 H	84	39.20	12.50
4	#10540.00	39.50 AV	54.00	-14.50	1.58 H	84	27.00	12.50
5	15810.00	62.60 PK	74.00	-11.40	3.16 H	264	49.50	13.10
6	15810.00	48.20 AV	54.00	-5.80	3.16 H	264	35.10	13.10
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	105.60 PK			3.29 V	90	103.60	2.00
2	*5270.00	95.10 AV			3.29 V	90	93.10	2.00
3	#10540.00	51.60 PK	74.00	-22.40	2.59 V	113	39.10	12.50
4	#10540.00	39.70 AV	54.00	-14.30	2.59 V	113	27.20	12.50
5	15810.00	67.40 PK	74.00	-6.60	3.60 V	150	54.30	13.10
6	15810.00	53.60 AV	54.00	-0.40	3.60 V	150	40.50	13.10

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

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

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	102.50 PK			2.88 H	323	100.50	2.00
2	*5310.00	92.00 AV			2.88 H	323	90.00	2.00
3	5350.00	61.30 PK	74.00	-12.70	2.88 H	323	59.20	2.10
4	5350.00	47.50 AV	54.00	-6.50	2.88 H	323	45.40	2.10
5	10620.00	51.50 PK	74.00	-22.50	1.62 H	103	38.80	12.70
6	10620.00	39.60 AV	54.00	-14.40	1.62 H	103	26.90	12.70
7	15930.00	62.10 PK	74.00	-11.90	3.08 H	262	48.80	13.30
8	15930.00	47.80 AV	54.00	-6.20	3.08 H	262	34.50	13.30
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	106.00 PK			3.42 V	89	104.00	2.00
2	*5310.00	95.20 AV			3.42 V	89	93.20	2.00
3	5350.00	70.90 PK	74.00	-3.10	3.42 V	89	68.80	2.10
4	5350.00	53.80 AV	54.00	-0.20	3.42 V	89	51.70	2.10
5	10620.00	52.40 PK	74.00	-21.60	2.52 V	130	39.70	12.70
6	10620.00	40.20 AV	54.00	-13.80	2.52 V	130	27.50	12.70
7	15930.00	65.60 PK	74.00	-8.40	3.61 V	161	52.30	13.30
8	15930.00	51.80 AV	54.00	-2.20	3.61 V	161	38.50	13.30

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

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

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	#5470.00	62.10 PK	74.00	-11.90	2.88 H	307	59.80	2.30
2	#5470.00	48.00 AV	54.00	-6.00	2.88 H	307	45.70	2.30
3	*5510.00	105.10 PK			2.88 H	307	102.80	2.30
4	*5510.00	95.20 AV			2.88 H	307	92.90	2.30
5	11020.00	51.10 PK	74.00	-22.90	1.63 H	113	37.70	13.40
6	11020.00	39.10 AV	54.00	-14.90	1.63 H	113	25.70	13.40
7	#16530.00	61.20 PK	74.00	-12.80	3.15 H	278	45.40	15.80
8	#16530.00	47.40 AV	54.00	-6.60	3.15 H	278	31.60	15.80
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	#5470.00	71.50 PK	74.00	-2.50	3.91 V	90	69.20	2.30
2	#5470.00	53.20 AV	54.00	-0.80	3.91 V	90	50.90	2.30
3	*5510.00	107.80 PK			3.91 V	90	105.50	2.30
4	*5510.00	97.40 AV			3.91 V	90	95.10	2.30
5	11020.00	51.90 PK	74.00	-22.10	2.55 V	126	38.50	13.40
6	11020.00	39.60 AV	54.00	-14.40	2.55 V	126	26.20	13.40
7	#16530.00	65.20 PK	74.00	-8.80	3.57 V	166	49.40	15.80
8	#16530.00	51.40 AV	54.00	-2.60	3.57 V	166	35.60	15.80

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

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

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	*5550.00	105.70 PK			2.96 H	315	103.20	2.50
2	*5550.00	95.80 AV			2.96 H	315	93.30	2.50
3	11100.00	51.10 PK	74.00	-22.90	1.62 H	101	37.90	13.20
4	11100.00	39.20 AV	54.00	-14.80	1.62 H	101	26.00	13.20
5	#16650.00	61.60 PK	74.00	-12.40	3.16 H	261	45.40	16.20
6	#16650.00	47.60 AV	54.00	-6.40	3.16 H	261	31.40	16.20
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	*5550.00	108.60 PK			3.21 V	105	106.10	2.50
2	*5550.00	98.10 AV			3.21 V	105	95.60	2.50
3	11100.00	52.20 PK	74.00	-21.80	2.59 V	127	39.00	13.20
4	11100.00	40.10 AV	54.00	-13.90	2.59 V	127	26.90	13.20
5	#16650.00	67.40 PK	74.00	-6.60	3.89 V	153	51.20	16.20
6	**#16650.00**	**53.90 AV**	**54.00**	**-0.10**	**3.89 V**	**153**	**37.70**	**16.20**

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

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

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	109.10 PK			2.95 H	305	106.50	2.60
2	*5670.00	97.60 AV			2.95 H	305	95.00	2.60
3	#5725.00	61.90 PK	74.00	-12.10	2.95 H	305	59.10	2.80
4	#5725.00	47.80 AV	54.00	-6.20	2.95 H	305	45.00	2.80
5	11340.00	51.30 PK	74.00	-22.70	1.60 H	108	37.50	13.80
6	11340.00	39.50 AV	54.00	-14.50	1.60 H	108	25.70	13.80
7	#17010.00	61.50 PK	74.00	-12.50	3.14 H	262	43.70	17.80
8	#17010.00	47.50 AV	54.00	-6.50	3.14 H	262	29.70	17.80
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	111.40 PK			3.59 V	91	108.80	2.60
2	*5670.00	99.90 AV			3.59 V	91	97.30	2.60
3	#5725.00	71.60 PK	74.00	-2.40	3.59 V	91	68.80	2.80
4	#5725.00	53.10 AV	54.00	-0.90	3.59 V	91	50.30	2.80
5	11340.00	52.00 PK	74.00	-22.00	2.54 V	120	38.20	13.80
6	11340.00	39.40 AV	54.00	-14.60	2.54 V	120	25.60	13.80
7	#17010.00	67.20 PK	74.00	-6.80	3.61 V	148	49.40	17.80
8	#17010.00	52.70 AV	54.00	-1.30	3.61 V	148	34.90	17.80

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

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

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	#5645.95	65.40 PK	68.20	-2.80	2.90 H	308	62.80	2.60
2	*5755.00	111.10 PK			2.90 H	308	108.20	2.90
3	*5755.00	100.10 AV			2.90 H	308	97.20	2.90
4	#5940.93	55.30 PK	68.20	-12.90	2.90 H	308	52.20	3.10
5	11510.00	51.60 PK	74.00	-22.40	1.66 H	85	38.10	13.50
6	11510.00	39.50 AV	54.00	-14.50	1.66 H	85	26.00	13.50
7	#17265.00	62.10 PK	74.00	-11.90	3.16 H	251	43.60	18.50
8	#17265.00	47.80 AV	54.00	-6.20	3.16 H	251	29.30	18.50
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	65.20 PK	68.20	-3.00	3.50 V	101	62.60	2.60
2	*5755.00	112.50 PK			3.50 V	101	109.60	2.90
3	*5755.00	102.30 AV			3.50 V	101	99.40	2.90
4	#5933.32	56.30 PK	68.20	-11.90	3.50 V	101	53.20	3.10
5	11510.00	51.80 PK	74.00	-22.20	2.50 V	124	38.30	13.50
6	11510.00	39.50 AV	54.00	-14.50	2.50 V	124	26.00	13.50
7	#17265.00	67.10 PK	74.00	-6.90	3.68 V	150	48.60	18.50
8	#17265.00	50.10 AV	54.00	-3.90	3.68 V	150	31.60	18.50

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

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

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	#5644.52	55.60 PK	68.20	-12.60	2.91 H	305	53.00	2.60
2	*5795.00	111.80 PK			2.91 H	305	108.90	2.90
3	*5795.00	99.80 AV			2.91 H	305	96.90	2.90
4	#5950.90	59.10 PK	68.20	-9.10	2.91 H	305	55.90	3.20
5	11590.00	50.40 PK	74.00	-23.60	1.63 H	89	37.30	13.10
6	11590.00	38.60 AV	54.00	-15.40	1.63 H	89	25.50	13.10
7	#17385.00	61.40 PK	74.00	-12.60	3.17 H	255	42.10	19.30
8	#17385.00	47.50 AV	54.00	-6.50	3.17 H	255	28.20	19.30
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	54.10 PK	68.20	-14.10	3.46 V	100	51.50	2.60
2	*5795.00	113.20 PK			3.46 V	100	110.30	2.90
3	*5795.00	102.00 AV			3.46 V	100	99.10	2.90
4	#5927.63	57.20 PK	68.20	-11.00	3.65 V	100	54.10	3.10
5	11590.00	52.40 PK	74.00	-21.60	2.61 V	141	39.30	13.10
6	11590.00	40.00 AV	54.00	-14.00	2.61 V	141	26.90	13.10
7	#17385.00	67.20 PK	74.00	-6.80	3.69 V	134	47.90	19.30
8	#17385.00	50.20 AV	54.00	-3.80	3.69 V	134	30.90	19.30

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11ac (VHT80)

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

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	61.90 PK	74.00	-12.10	2.89 H	313	60.30	1.60
2	5150.00	47.90 AV	54.00	-6.10	2.89 H	313	46.30	1.60
3	*5210.00	99.80 PK			2.89 H	313	98.00	1.80
4	*5210.00	88.90 AV			2.89 H	313	87.10	1.80
5	#10420.00	50.90 PK	74.00	-23.10	1.61 H	81	38.90	12.00
6	#10420.00	38.90 AV	54.00	-15.10	1.61 H	81	26.90	12.00
7	15630.00	58.30 PK	74.00	-15.70	3.21 H	257	45.00	13.30
8	15630.00	44.20 AV	54.00	-9.80	3.21 H	257	30.90	13.30
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	71.30 PK	74.00	-2.70	3.75 V	94	69.70	1.60
2	5150.00	53.80 AV	54.00	-0.20	3.75 V	94	52.20	1.60
3	*5210.00	101.80 PK			3.75 V	94	100.00	1.80
4	*5210.00	91.00 AV			3.75 V	94	89.20	1.80
5	#10420.00	50.10 PK	74.00	-23.90	2.52 V	130	38.10	12.00
6	#10420.00	38.40 AV	54.00	-15.60	2.52 V	130	26.40	12.00
7	15630.00	64.90 PK	74.00	-9.10	3.72 V	150	51.60	13.30
8	15630.00	47.50 AV	54.00	-6.50	3.72 V	150	34.20	13.30

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

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

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	*5290.00	100.20 PK			2.87 H	330	98.20	2.00
2	*5290.00	89.40 AV			2.87 H	330	87.40	2.00
3	5350.00	61.40 PK	74.00	-12.60	2.87 H	330	59.30	2.10
4	5350.00	47.20 AV	54.00	-6.80	2.87 H	330	45.10	2.10
5	#10580.00	51.30 PK	74.00	-22.70	1.66 H	69	38.60	12.70
6	#10580.00	39.00 AV	54.00	-15.00	1.66 H	69	26.30	12.70
7	15870.00	58.70 PK	74.00	-15.30	3.21 H	255	45.40	13.30
8	15870.00	44.50 AV	54.00	-9.50	3.21 H	255	31.20	13.30
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	*5290.00	102.00 PK			3.10 V	96	100.00	2.00
2	*5290.00	91.60 AV			3.10 V	96	89.60	2.00
3	5350.00	70.20 PK	74.00	-3.80	3.10 V	96	68.10	2.10
4	5350.00	53.70 AV	54.00	-0.30	3.10 V	96	51.60	2.10
5	#10580.00	50.10 PK	74.00	-23.90	2.52 V	117	37.40	12.70
6	#10580.00	38.40 AV	54.00	-15.60	2.52 V	117	25.70	12.70
7	15870.00	64.30 PK	74.00	-9.70	3.73 V	148	51.00	13.30
8	15870.00	47.10 AV	54.00	-6.90	3.73 V	148	33.80	13.30

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

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

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	#5470.00	61.40 PK	74.00	-12.60	2.98 H	329	59.10	2.30
2	#5470.00	47.50 AV	54.00	-6.50	2.98 H	329	45.20	2.30
3	*5530.00	101.10 PK			2.98 H	329	98.70	2.40
4	*5530.00	89.80 AV			2.98 H	329	87.40	2.40
5	11060.00	51.60 PK	74.00	-22.40	1.64 H	90	38.30	13.30
6	11060.00	39.30 AV	54.00	-14.70	1.64 H	90	26.00	13.30
7	#16590.00	58.50 PK	74.00	-15.50	3.27 H	259	42.20	16.30
8	#16590.00	44.30 AV	54.00	-9.70	3.27 H	259	28.00	16.30
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	#5470.00	71.60 PK	74.00	-2.40	3.01 V	102	69.30	2.30
2	**#5470.00**	**53.90 AV**	**54.00**	**-0.10**	**3.01 V**	**102**	**51.60**	**2.30**
3	*5530.00	103.00 PK			3.01 V	102	100.60	2.40
4	*5530.00	91.60 AV			3.01 V	102	89.20	2.40
5	11060.00	49.70 PK	74.00	-24.30	2.49 V	142	36.40	13.30
6	11060.00	38.20 AV	54.00	-15.80	2.49 V	142	24.90	13.30
7	#16590.00	65.00 PK	74.00	-9.00	3.75 V	162	48.70	16.30
8	#16590.00	47.80 AV	54.00	-6.20	3.75 V	162	31.50	16.30

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

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

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	*5610.00	106.30 PK			2.86 H	324	103.70	2.60
2	*5610.00	94.10 AV			2.86 H	324	91.50	2.60
3	#5725.00	61.60 PK	74.00	-12.40	2.86 H	324	58.80	2.80
4	#5725.00	47.70 AV	54.00	-6.30	2.86 H	324	44.90	2.80
5	11220.00	51.40 PK	74.00	-22.60	1.65 H	92	37.90	13.50
6	11220.00	39.30 AV	54.00	-14.70	1.65 H	92	25.80	13.50
7	#16830.00	58.50 PK	74.00	-15.50	3.18 H	269	41.40	17.10
8	#16830.00	44.50 AV	54.00	-9.50	3.18 H	269	27.40	17.10
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	*5610.00	108.10 PK			3.27 V	100	105.50	2.60
2	*5610.00	96.40 AV			3.27 V	100	93.80	2.60
3	#5725.00	68.40 PK	74.00	-5.60	3.27 V	100	65.60	2.80
4	#5725.00	53.20 AV	54.00	-0.80	3.27 V	100	50.40	2.80
5	11220.00	50.30 PK	74.00	-23.70	2.52 V	144	36.80	13.50
6	11220.00	38.70 AV	54.00	-15.30	2.52 V	144	25.20	13.50
7	#16830.00	65.10 PK	74.00	-8.90	3.70 V	143	48.00	17.10
8	#16830.00	48.60 AV	54.00	-5.40	3.70 V	143	31.50	17.10

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

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

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	#5651.65	65.30 PK	74.00	-8.70	2.89 H	315	62.70	2.60
2	#5651.65	47.20 AV	54.00	-6.80	2.89 H	315	44.60	2.60
3	*5775.00	106.90 PK			2.89 H	315	104.00	2.90
4	*5775.00	95.20 AV			2.89 H	315	92.30	2.90
5	#5925.25	60.30 PK	74.00	-13.70	2.89 H	315	57.20	3.10
6	#5925.25	43.60 AV	54.00	-10.40	2.89 H	315	40.50	3.10
7	11550.00	50.60 PK	74.00	-23.40	1.65 H	88	37.30	13.30
8	11550.00	38.80 AV	54.00	-15.20	1.65 H	88	25.50	13.30
9	#17325.00	58.20 PK	74.00	-15.80	3.23 H	247	39.30	18.90
10	#17325.00	44.20 AV	54.00	-9.80	3.23 H	247	25.30	18.90
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	71.30 PK	74.00	-2.70	3.64 V	102	68.70	2.60
2	#5650.00	53.60 AV	54.00	-0.40	3.64 V	102	51.00	2.60
3	*5775.00	109.60 PK			3.64 V	102	106.70	2.90
4	*5775.00	97.80 AV			3.64 V	102	94.90	2.90
5	#5919.07	67.50 PK	74.00	-6.50	3.64 V	102	64.40	3.10
6	#5919.07	50.30 AV	54.00	-3.70	3.64 V	102	47.20	3.10
7	11550.00	49.50 PK	74.00	-24.50	2.46 V	127	36.20	13.30
8	11550.00	38.00 AV	54.00	-16.00	2.46 V	127	24.70	13.30
9	#17325.00	64.80 PK	74.00	-9.20	3.67 V	144	45.90	18.90
10	#17325.00	48.60 AV	54.00	-5.40	3.67 V	144	29.70	18.90

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Below 1GHz Data:

802.11a

CHANNEL	TX Channel 157	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	below 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	109.39	25.60 QP	43.50	-17.90	1.50 H	303	37.10	-11.50
2	169.46	35.80 QP	43.50	-7.70	2.00 H	279	44.90	-9.10
3	260.79	41.10 QP	46.00	-4.90	1.00 H	142	50.60	-9.50
4	322.45	39.00 QP	46.00	-7.00	1.00 H	258	46.20	-7.20
5	403.23	29.40 QP	46.00	-16.60	1.00 H	91	34.70	-5.30
6	608.75	37.30 QP	46.00	-8.70	1.50 H	108	37.60	-0.30
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	108.30	22.80 QP	43.50	-20.70	1.00 V	119	34.30	-11.50
2	163.71	32.40 QP	43.50	-11.10	1.00 V	121	41.10	-8.70
3	241.99	27.60 QP	46.00	-18.40	2.00 V	275	37.80	-10.20
4	282.37	32.50 QP	46.00	-13.50	1.50 V	337	41.00	-8.50
5	405.39	28.50 QP	46.00	-17.50	1.00 V	270	33.70	-5.20
6	612.44	26.50 QP	46.00	-19.50	1.50 V	325	26.70	-0.20

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

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 0.50MHz.

4.2.2 Test Instruments

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver R&S	ESCS 30	100375	May 09, 2016	May 08, 2017
Line-Impedance Stabilization Network (for EUT) SCHWARZBECK	NSLK-8127	8127-522	Sep. 01, 2015	Aug. 31, 2016
Line-Impedance Stabilization Network (for Peripheral) R&S	ENV216	100072	June 11, 2015	June 10, 2016
RF Cable	5D-FB	COCCAB-001	Mar. 08, 2016	Mar. 07, 2017
10 dB PAD Mini-Circuits	HAT-10+	CONATT-002	Sep. 14, 2015	Sep. 13, 2016
50 ohms Terminator	N/A	EMC-03	Sep. 23, 2015	Sep. 22, 2016
50 ohms Terminator	N/A	EMC-02	Oct. 01, 2015	Sep. 30, 2016
50 ohms Terminator	E1-011315	13	Dec. 11 2015	Dec. 10 2016
Software BVADT	BVADT_Cond_ V7.3.7.3	NA	NA	NA

Note:

1. The calibration interval of the above test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in Shielded Room No. C.
3 The VCCI Con C Registration No. is C-3611.
4 Tested Date: May 30, 2016

4.2.3 Test Procedure

a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.

b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

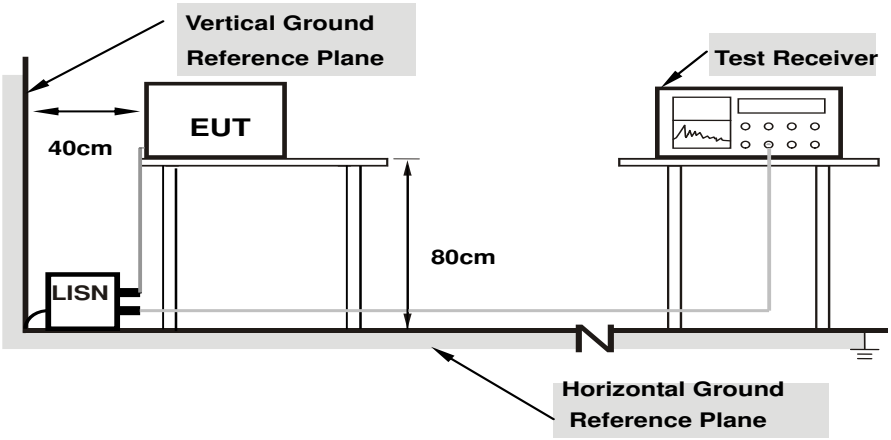
c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

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.

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

4.2.6 EUT Operating Condition

Same as 4.1.6.

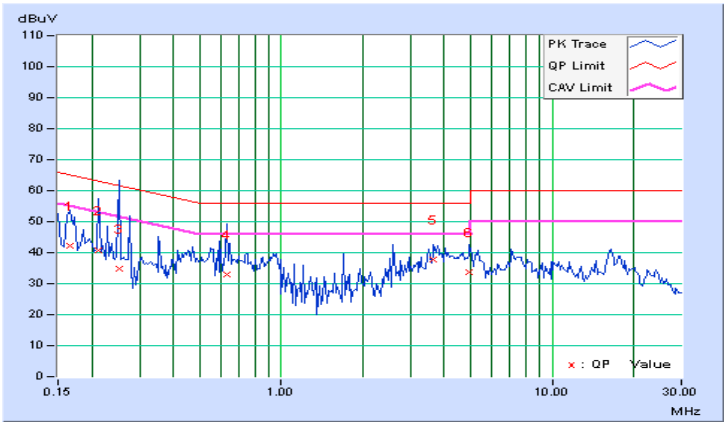
4.2.7 Test Results

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16562	10.31	32.00	13.19	42.31	23.50	65.18	55.18	-22.87	-31.68
2	0.21250	10.28	30.53	21.74	40.81	32.02	63.11	53.11	-22.30	-21.09
3	0.25156	10.29	24.49	11.64	34.78	21.93	61.71	51.71	-26.93	-29.78
4	0.63438	10.27	22.56	11.91	32.83	22.18	56.00	46.00	-23.17	-23.82
5	3.65625	10.40	27.22	21.14	37.62	31.54	56.00	46.00	-18.38	-14.46
6	4.96094	10.45	23.14	16.56	33.59	27.01	56.00	46.00	-22.41	-18.99

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.

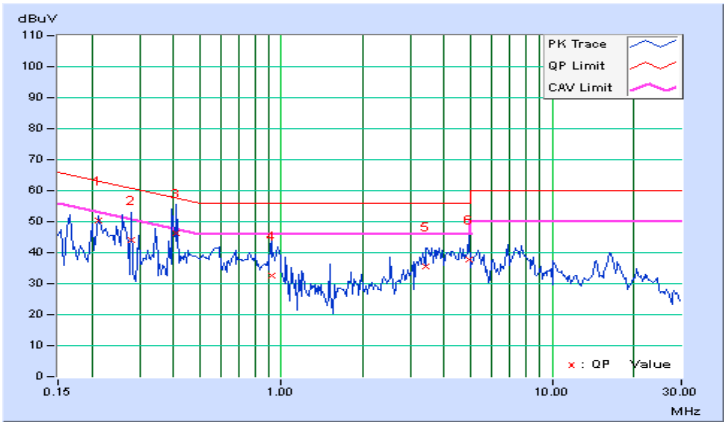


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.21250	10.26	40.25	22.18	50.51	32.44	63.11	53.11	-12.60	-20.67
2	0.27891	10.27	33.74	12.69	44.01	22.96	60.85	50.85	-16.84	-27.89
3	**0.41172**	**10.28**	**36.09**	**9.79**	**46.37**	**20.07**	**57.61**	**47.61**	**-11.24**	**-27.54**
4	0.91953	10.23	22.19	9.81	32.42	20.04	56.00	46.00	-23.58	-25.96
5	3.43359	10.39	25.24	19.55	35.63	29.94	56.00	46.00	-20.37	-16.06
6	4.94141	10.46	27.22	21.81	37.68	32.27	56.00	46.00	-18.32	-13.73

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 Measurment

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 ≦ 125mW(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	250mW (24 dBm)
U-NII-2A	√		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-2C	√		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-3	√		1 Watt (30 dBm)

*B is the 26 dB emission bandwidth in megahertz

Per KDB 662911 Method of conducted output power measurement on IEEE 802.11 devices,

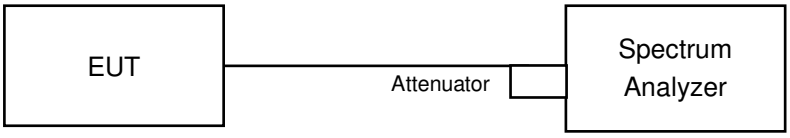
Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT};
Array Gain = 5 log(N_{ANT}/N_{SS}) dB or 3 dB, whichever is less for 20-MHz channel widths with $N_{ANT} \geq 5$.

For power measurements on all other devices: Array Gain = 10 log(N_{ANT}/N_{SS}) dB.

4.3.2 Test Setup

FOR POWER OUTPUT MEASUREMENT

FOR 26dB OCCUPIED BANDWIDTH



4.3.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.3.4 Test Procedure

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.

4.3.5 Deviation from Test Standard

No deviation.

4.3.6 EUT Operating Condition

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

4.3.7 Test Result

802.11a

Power Output:

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	17.63	17.38	112.645	20.52	24	Pass
40	5200	17.61	17.44	113.14	20.54	24	Pass
48	5240	17.41	16.95	104.626	20.20	24	Pass
52	5260	17.61	16.87	106.318	20.27	24	Pass
60	5300	17.79	17.01	110.351	20.43	24	Pass
64	5320	17.77	17.04	110.423	20.43	24	Pass
100	5500	17.81	18.17	126.01	21.00	24	Pass
120	5600	17.63	18.12	122.806	20.89	24	Pass
140	5700	18.01	17.96	125.758	21.00	24	Pass
149	5745	21.21	21.95	288.805	24.61	30	Pass
157	5785	21.19	22.01	290.377	24.63	30	Pass
165	5825	21.27	21.92	289.565	24.62	30	Pass

26dB OCCUPIED BANDWIDTH

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	24.21	25.43
60	5300	25.14	26.49
64	5320	23.16	26.57
100	5500	25.32	23.25
120	5600	20.08	30.01
140	5700	28.83	33.38

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth

Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C >			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
52	5260	24.21	24.83 > 24
60	5300	25.14	25.00 > 24
64	5320	23.16	24.64 > 24
100	5500	23.25	24.66 > 24
120	5600	20.08	24.02 > 24
140	5700	28.83	25.59 > 24

802.11ac (VHT20)

Power Output:

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	17.33	17.05	104.774	20.20	24	Pass
40	5200	17.65	17.11	109.614	20.40	24	Pass
48	5240	17.57	16.81	105.121	20.22	24	Pass
52	5260	17.61	16.87	106.318	20.27	24	Pass
60	5300	17.96	17.76	122.221	20.87	24	Pass
64	5320	17.65	16.92	107.414	20.31	24	Pass
100	5500	17.71	17.63	116.963	20.68	24	Pass
120	5600	18.41	17.96	131.86	21.20	24	Pass
140	5700	17.27	17.11	104.737	20.20	24	Pass
149	5745	21.11	21.92	284.719	24.54	30	Pass
157	5785	21.09	21.97	285.927	24.56	30	Pass
165	5825	21.13	21.87	283.533	24.53	30	Pass

26dB OCCUPIED BANDWIDTH

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	28.85	33.57
60	5300	31.65	36.05
64	5320	31.43	27.53
100	5500	26.96	28.47
120	5600	30.30	28.94
140	5700	36.68	34.85

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth

Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C >			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
52	5260	28.85	25.60 > 24
60	5300	31.65	26.00 > 24
64	5320	27.53	25.39 > 24
100	5500	26.96	25.30 > 24
120	5600	28.94	25.61 > 24
140	5700	34.85	26.42 > 24

802.11ac (VHT40)

Power Output:

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
38	5190	17.41	17.76	114.785	20.60	24	Pass
46	5230	18.81	18.45	146.017	21.64	24	Pass
54	5270	18.96	18.63	151.651	21.81	24	Pass
62	5310	17.15	17.96	114.397	20.58	24	Pass
102	5510	18.27	18.43	136.806	21.36	24	Pass
110	5550	18.81	19.89	173.532	22.39	24	Pass
134	5670	19.67	19.42	180.181	22.56	24	Pass
151	5755	21.27	21.89	288.493	24.60	30	Pass
159	5795	21.23	21.81	284.444	24.54	30	Pass

26dB OCCUPIED BANDWIDTH

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
54	5270	71.48	71.83
62	5310	69.25	69.51
102	5510	57.09	59.87
118	5590	69.07	71.30
134	5670	88.05	72.58

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth

Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C >			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
54	5270	71.48	29.54 > 24
62	5310	69.25	29.40 > 24
102	5510	57.09	28.56 > 24
118	5590	69.07	29.39 > 24
134	5670	72.58	29.60 > 24

802.11ac (VHT80)

Power Output:

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
42	5210	16.31	15.68	79.739	19.02	24	Pass
58	5290	15.01	14.46	59.621	17.75	24	Pass
106	5530	14.47	14.68	57.366	17.59	24	Pass
122	5610	18.96	18.97	157.591	21.98	24	Pass
155	5775	19.96	19.61	190.494	22.80	30	Pass

26dB OCCUPIED BANDWIDTH

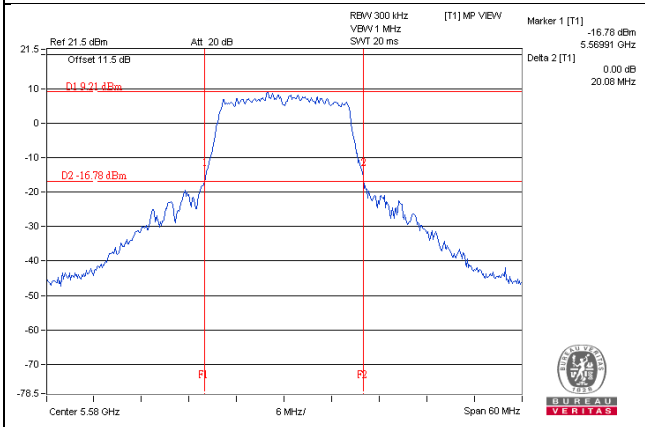
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	93.33	87.54
106	5530	81.72	81.74
122	5610	117.10	140.74

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth

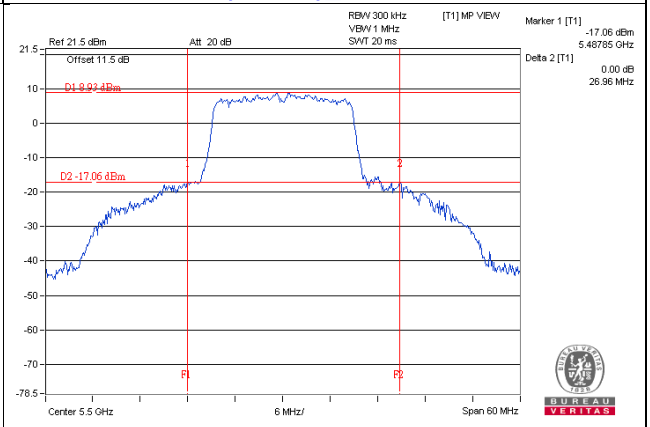
Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C >			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
58	5290	87.54	30.42 > 24
106	5530	81.72	30.12 > 24
122	5610	117.10	31.68 > 24

Spectrum Plot of Worst Value

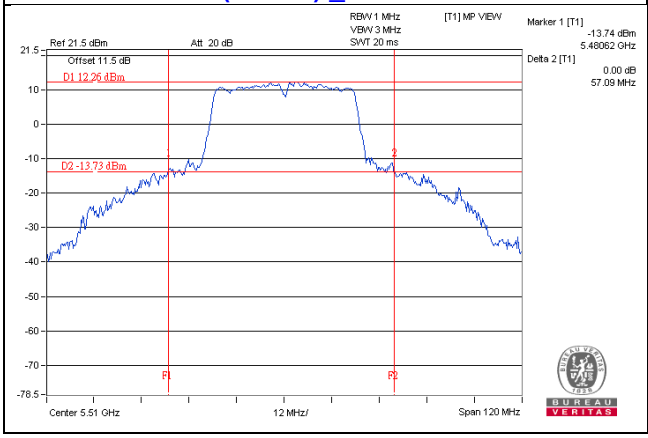
802.11a_Chain 0 / CH116



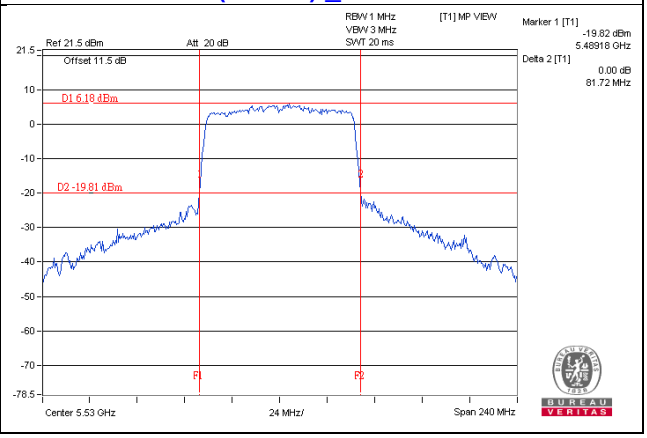
802.11ac (VHT20)_Chain 0 / CH100



802.11ac (VHT40) _Chain 0 / CH102

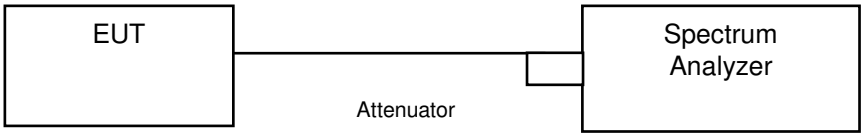


802.11ac (VHT80) _Chain 0 / CH106



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 Result

802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	OCCUPIED BANDWIDTH (MHz)	
		CHAIN 0	CHAIN 1
36	5180	17.76	16.92
40	5200	17.64	16.92
48	5240	16.80	16.92
52	5260	16.80	16.92
60	5300	16.92	16.92
64	5320	16.80	16.92
100	5500	17.04	16.80
116	5580	16.56	16.92
140	5700	17.28	17.28
149	5745	27.72	27.36
157	5785	28.32	26.40
165	5825	26.04	25.92

802.11ac (VHT20)

CHANNEL	CHANNEL FREQUENCY (MHz)	OCCUPIED BANDWIDTH (MHz)	
		CHAIN 0	CHAIN 1
36	5180	17.88	18.00
40	5200	17.88	17.88
48	5240	17.88	18.00
52	5260	17.88	18.00
60	5300	18.00	18.24
64	5320	17.88	17.88
100	5500	17.88	17.88
116	5580	17.88	17.88
140	5700	18.72	18.24
149	5745	30.60	30.48
157	5785	29.04	29.88
165	5825	29.52	29.16

802.11ac (VHT40)

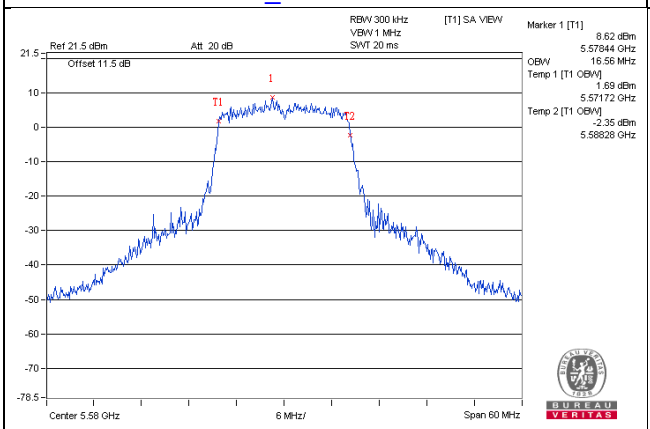
CHANNEL	CHANNEL FREQUENCY (MHz)	OCCUPIED BANDWIDTH (MHz)	
		CHAIN 0	CHAIN 1
38	5190	36.96	36.72
46	5230	36.72	36.96
54	5270	37.20	36.96
62	5310	36.72	36.72
102	5510	36.48	36.72
110	5550	36.24	37.20
134	5670	45.36	36.96
151	5755	57.12	59.76
159	5795	55.68	61.44

802.11ac (VHT80)

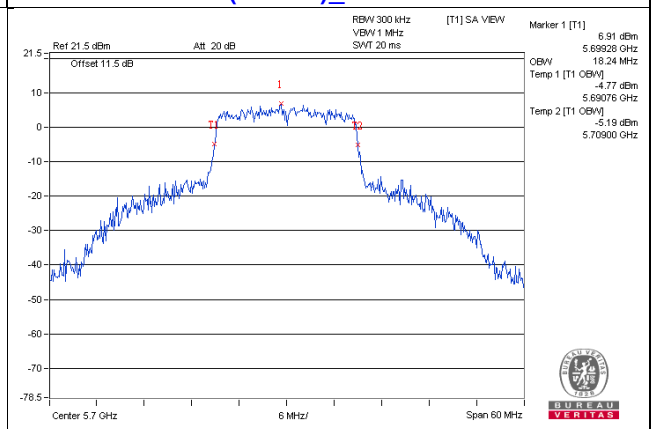
CHANNEL	CHANNEL FREQUENCY (MHz)	OCCUPIED BANDWIDTH (MHz)	
		CHAIN 0	CHAIN 1
42	5210	75.84	74.88
58	5290	75.36	75.36
106	5530	74.88	75.36
122	5610	75.36	76.32
155	5775	86.40	85.92

Spectrum Plot of Worst Value

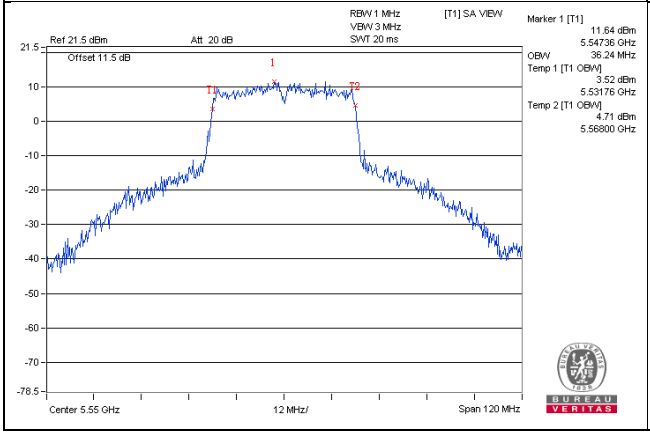
802.11a_Chain 0 / CH116



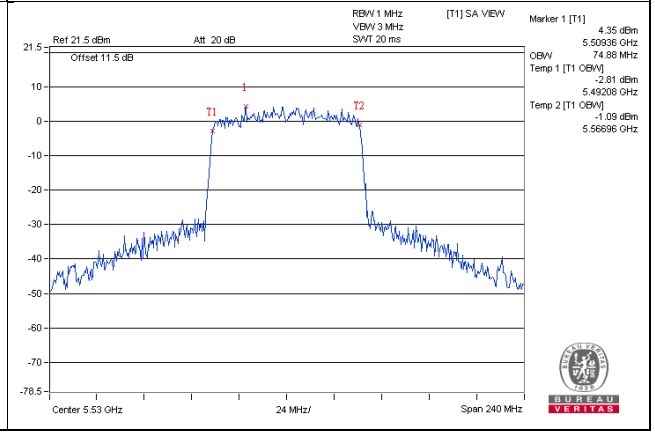
802.11ac (VHT20)_Chain 1 / CH140



8802.11ac (VHT40) _Chain 0 / CH110

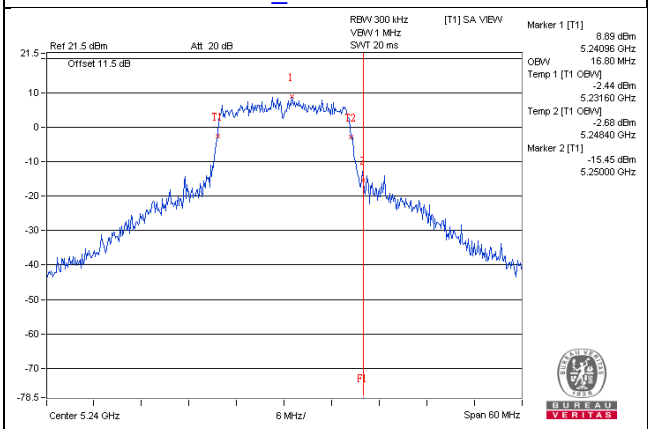


802.11ac (VHT80) _Chain 0 / CH106

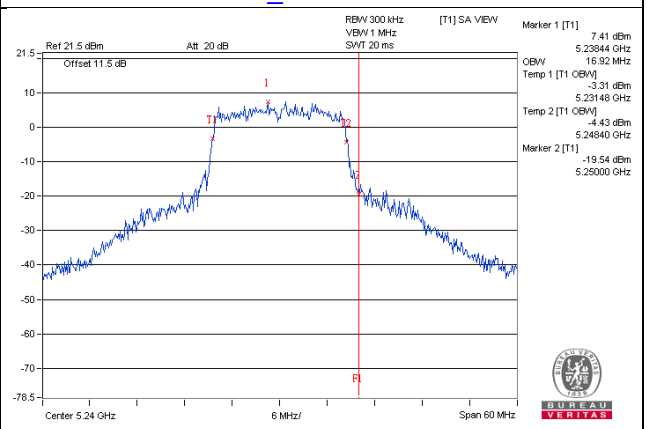


Spectrum Plot for nearby DFS band (DFS is required, if 99%OCP straddle into U-NII 2A band)

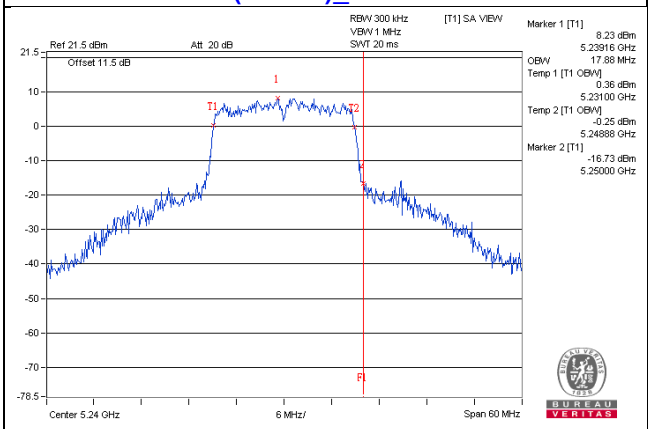
802.11a_Chain 0 / CH48



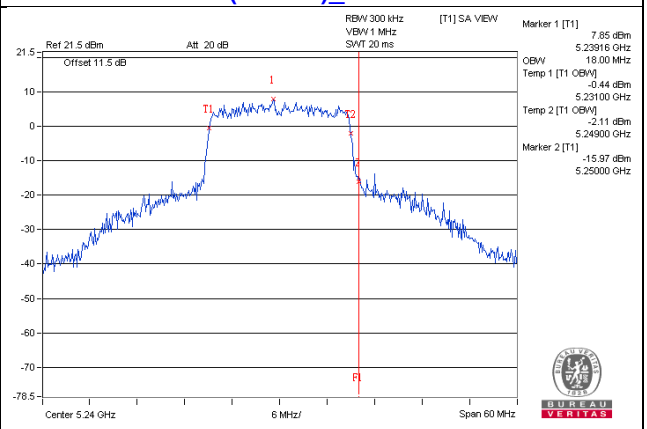
802.11a_Chain 1 / CH48



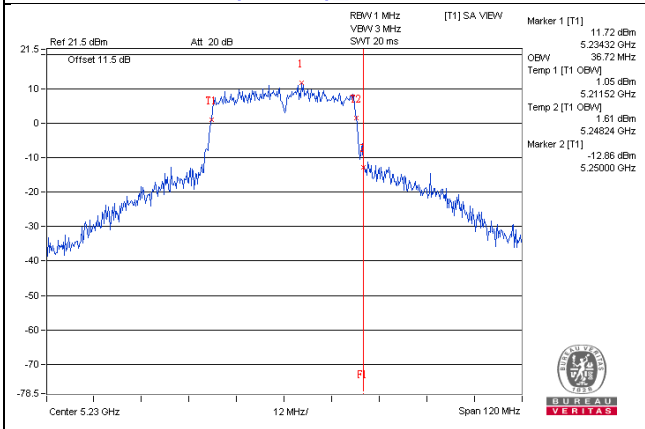
802.11ac (VHT20)_Chain 0 / CH48



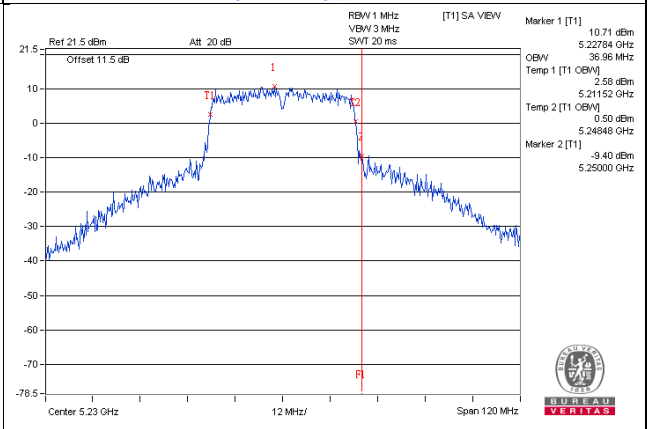
802.11ac (VHT20)_Chain 1 / CH48



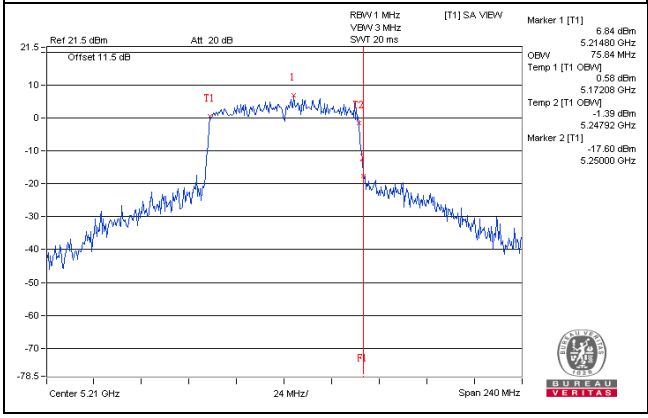
802.11ac (VHT40)_Chain 0 / CH46



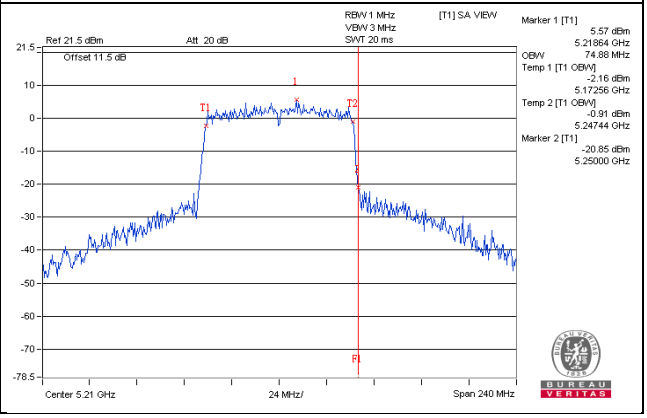
802.11ac (VHT40)_Chain 1 / CH46



802.11ac (VHT80)_Chain 0 / CH58



802.11ac (VHT80)_Chain 1 / CH58

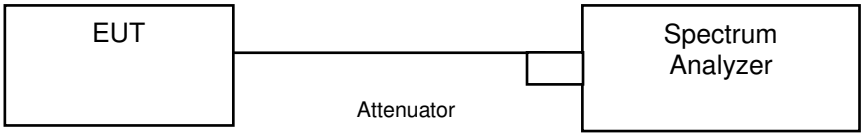


4.5 Peak Power Spectral Density Measurement

4.5.1 Limits of Peak Power Spectral Density Measurement

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

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 Procedure

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

Using method SA-1

1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW = 1 MHz, Set VBW ≥ 3 MHz, 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

For U-NII-3:

1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW = 300 kHz, Set VBW ≥ 1 MHz, 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 = 10log(500 kHz/300kHz)
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

4.5.5 Deviation from Test Standard

No deviation.

4.5.6 EUT Operating Condition

Same as Item 4.3.6.

4.5.7 Test Results

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

802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total Power Density (dBm/MHz)	MAX. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
36	5180	4.86	4.39	7.64	11	Pass
40	5200	5.22	3.45	7.43	11	Pass
48	5240	4.85	3.45	7.22	11	Pass
52	5260	4.24	3.57	6.93	11	Pass
60	5300	4.38	3.93	7.17	11	Pass
64	5320	4.35	3.93	7.16	11	Pass
100	5500	6.51	4.26	8.54	11	Pass
116	5580	3.98	5.37	7.74	11	Pass
140	5700	5.78	3.82	7.92	11	Pass

Note: 1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.

2. UNII-1 & UNII-2A: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2 / 2] = 5.82\text{dBi} < 6\text{dBi}$, so the power density limit shall not be reduced.

3. UNII-2C: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2 / 2] = 5.9\text{dBi} < 6\text{dBi}$, so the power density limit shall not be reduced.

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total Power Density (dBm/MHz)	MAX. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
36	5180	4.18	4.11	7.16	11	Pass
40	5200	4.28	3.90	7.10	11	Pass
48	5240	4.67	4.02	7.37	11	Pass
52	5260	4.60	4.44	7.53	11	Pass
60	5300	4.01	4.68	7.37	11	Pass
64	5320	4.00	3.08	6.57	11	Pass
100	5500	4.47	4.58	7.54	11	Pass
116	5580	5.05	4.66	7.87	11	Pass
140	5700	3.76	3.18	6.49	11	Pass

Note: 1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.

2. UNII-1 & UNII-2A: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2 / 2] = 5.82\text{dBi} < 6\text{dBi}$, so the power density limit shall not be reduced.

3. UNII-2C: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2 / 2] = 5.9\text{dBi} < 6\text{dBi}$, so the power density limit shall not be reduced.

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total Power Density (dBm/MHz)	MAX. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
38	5190	0.71	0.66	3.70	11	Pass
46	5230	1.31	1.53	4.43	11	Pass
54	5270	1.35	1.78	4.58	11	Pass
62	5310	0.81	0.64	3.74	11	Pass
102	5510	1.85	1.63	4.75	11	Pass
110	5550	2.19	3.24	5.76	11	Pass
134	5670	2.03	0.36	4.29	11	Pass

Note: 1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. UNII-1 & UNII-2A: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2$ / 2] = 5.82dBi < 6dBi , so the power density limit shall not be reduced.
3. UNII-2C: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2$ / 2] = 5.9dBi < 6dBi , so the power density limit shall not be reduced.

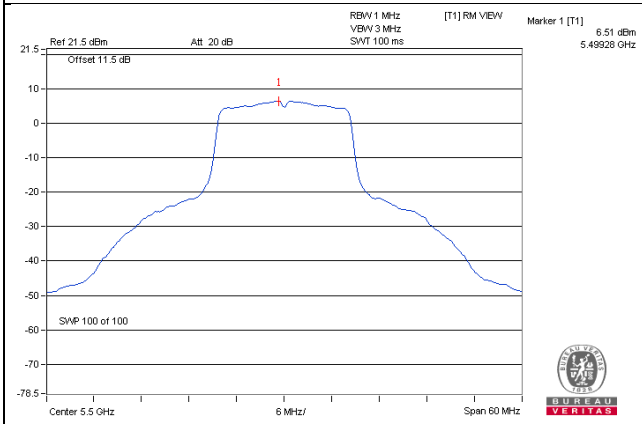
802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total Power Density (dBm/MHz)	MAX. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
42	5210	-3.08	-4.20	-0.59	17	Pass
58	5290	-4.83	-5.75	-2.25	11	Pass
106	5530	-4.67	-5.55	-2.08	11	Pass
122	5610	-1.98	-1.62	1.21	11	Pass

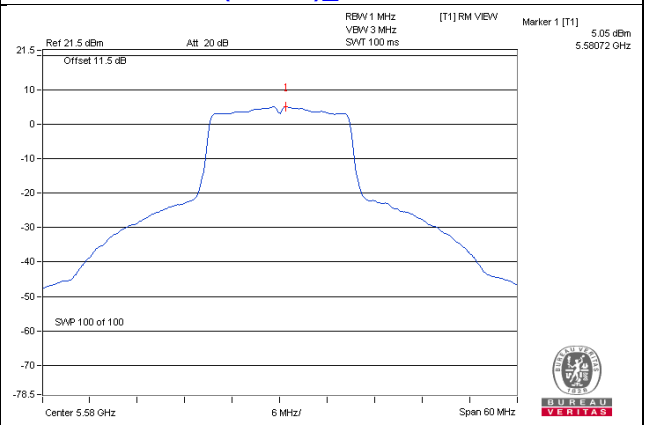
Note: 1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. UNII-1 & UNII-2A: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2$ / 2] = 5.82dBi < 6dBi , so the power density limit shall not be reduced.
3. UNII-2C: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2$ / 2] = 5.9dBi < 6dBi , so the power density limit shall not be reduced.

Spectrum Plot of Worst Value

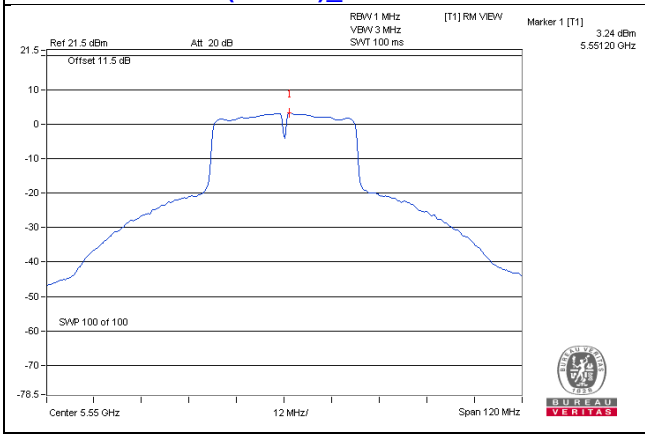
802.11a_Chain 0 / CH100



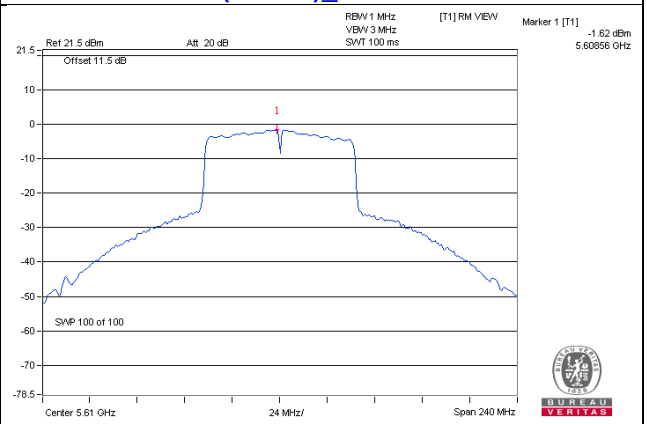
802.11ac (VHT20)_Chain 0 / CH116



802.11ac (VHT40)_Chain 1 / CH110



802.11ac (VHT80)_Chain 1 / CH122



For U-NII-3:

802.11a

TX chain	Channel	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	10 log (N=2) dB	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass /Fail
0	149	5745	0.74	2.96	3.01	5.97	30.00	Pass
	157	5785	0.37	2.59	3.01	5.60	30.00	Pass
	165	5825	-0.07	2.15	3.01	5.16	30.00	Pass
1	149	5745	-1.74	0.48	3.01	3.49	30.00	Pass
	157	5785	-2.25	-0.03	3.01	2.98	30.00	Pass
	165	5825	-2.18	0.04	3.01	3.05	30.00	Pass

Note: 1. Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2$ / 2] = 4.34dBi < 6dBi , so the power density limit shall not be reduced..

802.11ac (VHT20)

TX chain	Channel	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	10 log (N=2) dB	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass /Fail
0	149	5745	-1.95	0.27	3.01	3.28	30.00	Pass
	157	5785	-2.23	-0.01	3.01	3.00	30.00	Pass
	165	5825	-2.10	0.12	3.01	3.13	30.00	Pass
1	149	5745	-2.06	0.16	3.01	3.17	30.00	Pass
	157	5785	-2.35	-0.13	3.01	2.88	30.00	Pass
	165	5825	-2.45	-0.23	3.01	2.78	30.00	Pass

Note: 1. Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2$ / 2] = 4.34dBi < 6dBi , so the power density limit shall not be reduced..

802.11ac (VHT40)

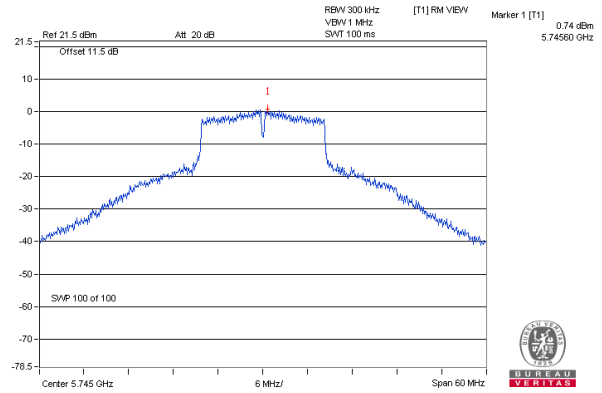
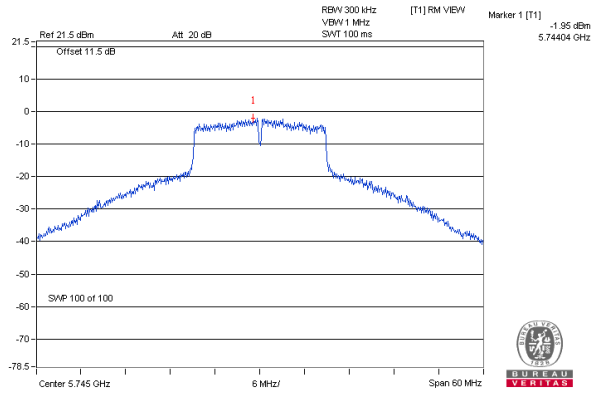
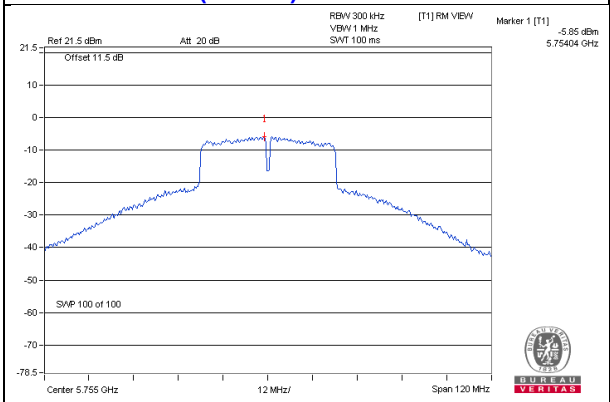
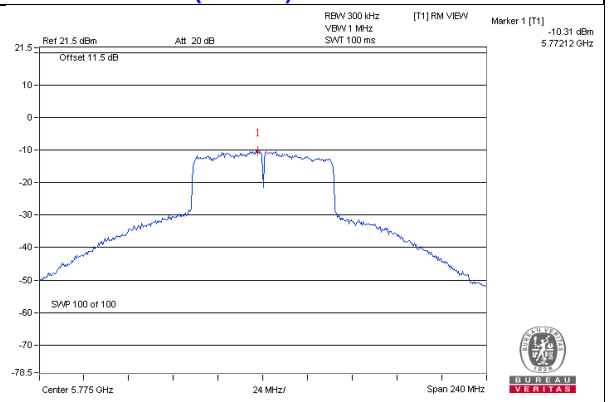
TX chain	Channel	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	10 log (N=2) dB	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass /Fail
0	151	5755	-5.86	-3.64	3.01	-0.63	30.00	Pass
	159	5795	-5.91	-3.69	3.01	-0.68	30.00	Pass
1	151	5755	-5.85	-3.63	3.01	-0.62	30.00	Pass
	159	5795	-6.15	-3.93	3.01	-0.92	30.00	Pass

Note: 1. Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2$ / 2] = 4.34dBi < 6dBi , so the power density limit shall not be reduced..

802.11ac (VHT80)

TX chain	Channel	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	10 log (N=2) dB	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass /Fail
0	155	5775	-10.31	-8.09	3.01	-5.08	30.00	Pass
1	155	5775	-10.64	-8.42	3.01	-5.41	30.00	Pass

Note: 1. Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2$ / 2] = 4.34dBi < 6dBi , so the power density limit shall not be reduced..

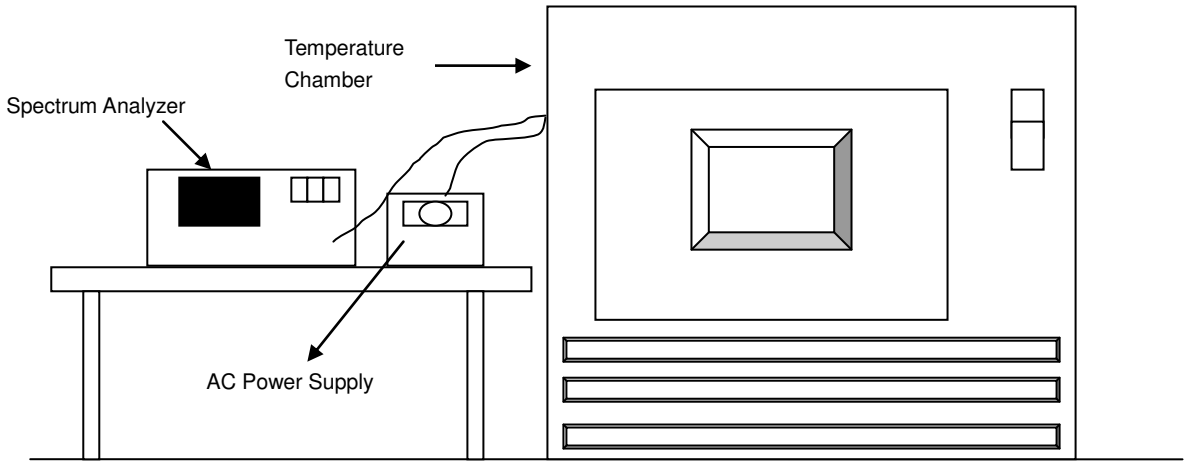
Spectrum Plot of Worst Value	
802.11a – Chain 0: CH 149	**802.11ac (VHT20) – Chain 0: CH 149**
	
802.11ac (VHT40) – Chain 1: CH 151	**802.11ac (VHT80) – Chain 0: CH 155**
	

4.6 Frequency Stability Measurement

4.6.1 Limits 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

a. The EUT was placed inside the environmental test chamber and powered by nominal AC voltage.
b. Turn the EUT on and couple its output to a spectrum analyzer.
c. Turn the EUT off and set the chamber to the highest temperature specified.
d. 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.
e. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
f. 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. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
50	120	5179.9763	Pass	5179.9776	Pass	5179.9797	Pass	5179.9796	Pass
40	120	5179.9926	Pass	5179.9908	Pass	5179.9931	Pass	5179.9907	Pass
30	120	5180.0268	Pass	5180.0273	Pass	5180.0263	Pass	5180.0235	Pass
20	120	5179.9984	Pass	5179.9989	Pass	5179.9974	Pass	5179.9986	Pass
10	120	5179.9834	Pass	5179.9836	Pass	5179.9816	Pass	5179.9854	Pass
0	120	5180.0136	Pass	5180.0174	Pass	5180.0151	Pass	5180.0154	Pass
-10	120	5179.9901	Pass	5179.9892	Pass	5179.9893	Pass	5179.9926	Pass
-20	120	5179.9881	Pass	5179.9907	Pass	5179.9917	Pass	5179.9906	Pass
-30	120	5180.0243	Pass	5180.0246	Pass	5180.0222	Pass	5180.0223	Pass

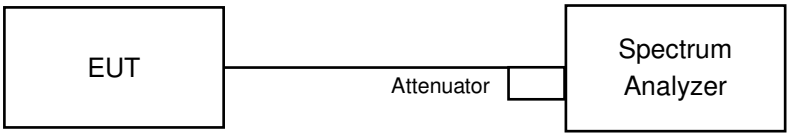
Frequency Stability Versus Voltage									
Operating Frequency: 5180 MHz									
TEMP. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
20	138	5179.9983	Pass	5179.9998	Pass	5179.9968	Pass	5179.9979	Pass
	120	5179.9984	Pass	5179.9989	Pass	5179.9974	Pass	5179.9986	Pass
	102	5179.9988	Pass	5179.9996	Pass	5179.9969	Pass	5179.9992	Pass

4.7 6dB Bandwidth Measurment

4.7.1 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is 0.5MHz.

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

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

4.7.5 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)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
149	5745	16.46	16.47	0.5	PASS
157	5785	16.50	16.47	0.5	PASS
165	5825	16.45	16.46	0.5	PASS

802.11ac (VHT20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
149	5745	17.72	17.82	0.5	PASS
157	5785	17.79	17.76	0.5	PASS
165	5825	17.76	17.70	0.5	PASS

802.11ac (VHT40)

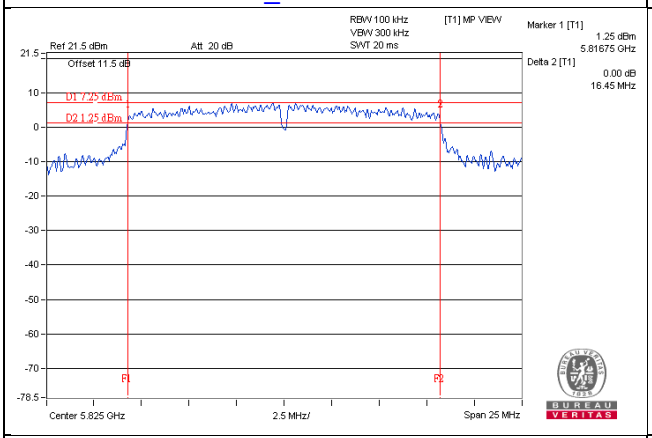
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
151	5755	36.47	36.48	0.5	PASS
159	5795	36.46	36.47	0.5	PASS

802.11ac (VHT80)

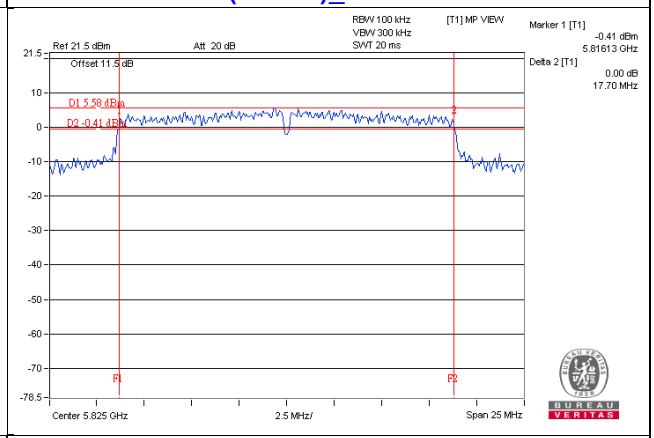
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
155	5775	76.33	76.09	0.5	PASS

Spectrum Plot of Worst Value

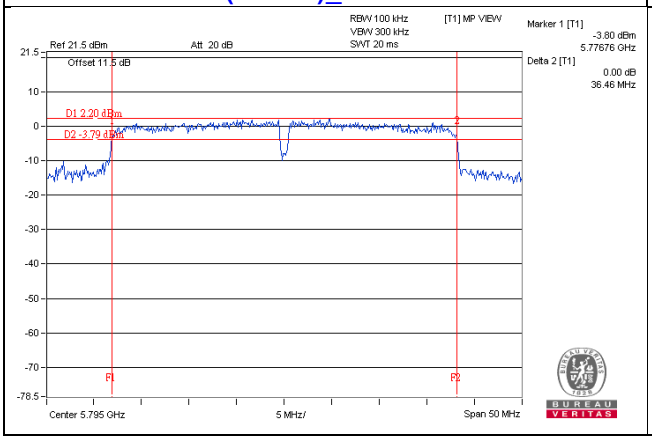
802.11a_Chain 0 / CH165



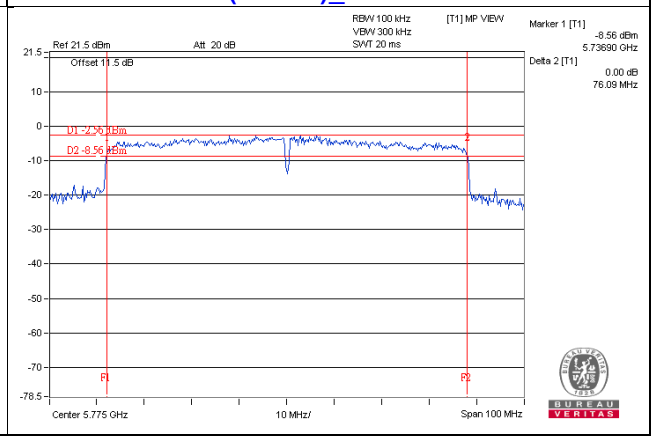
802.11ac (VHT20)_Chain 1 / CH165



802.11ac (VHT40)_Chain 0 / CH159



802.11ac (VHT80)_Chain 1 / CH155



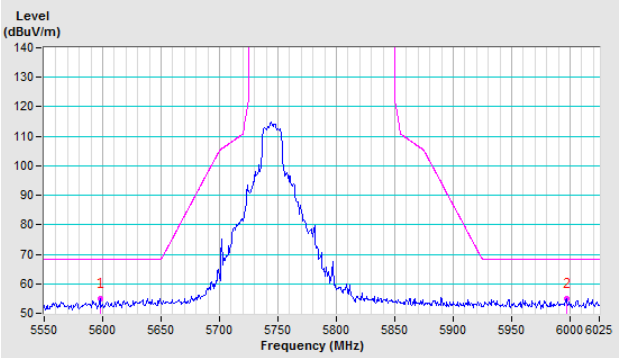
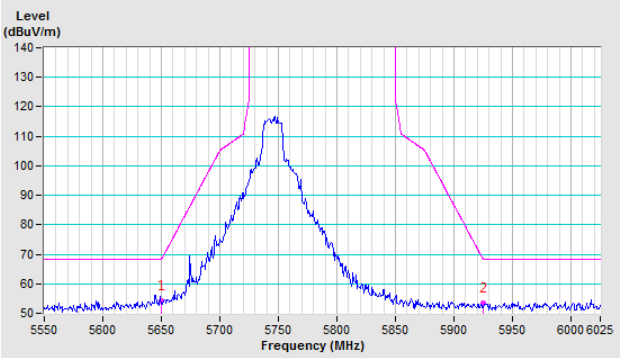
5 Pictures of Test Arrangements

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

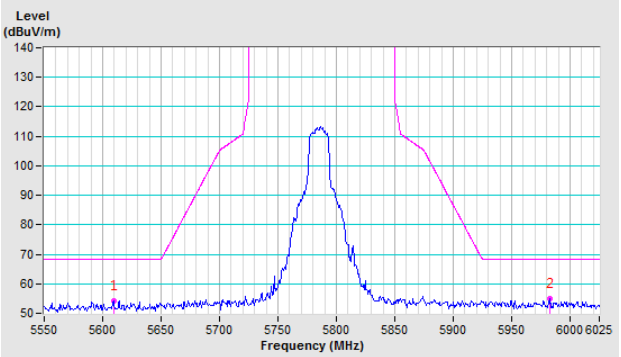
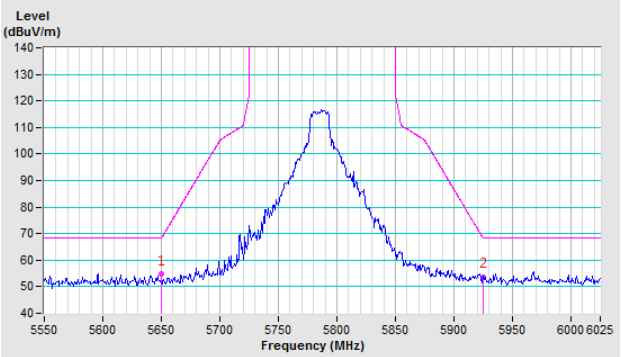
Annex A- Radiated Out of Band Emisison (OOBE) Measurement (For U-NII-3 band)

802.11a

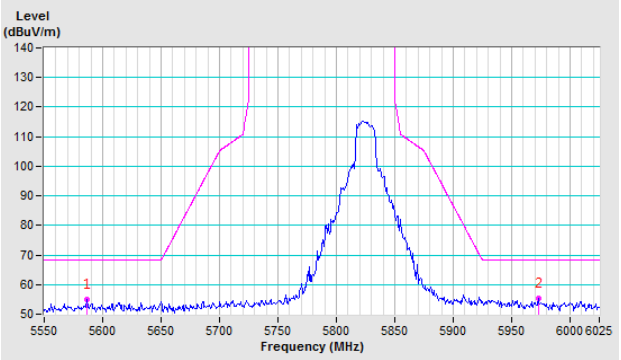
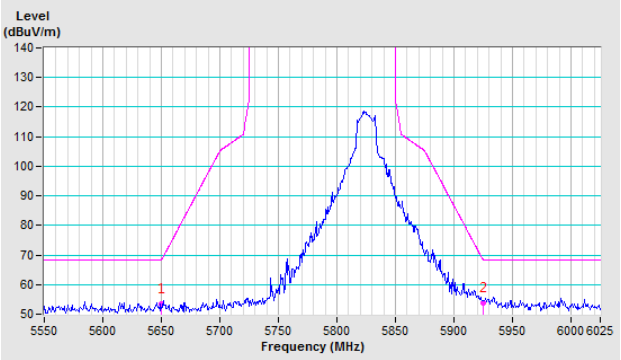
CH 149 5745 MHz

Horizontal	Vertical
	

CH 157 5785 MHz

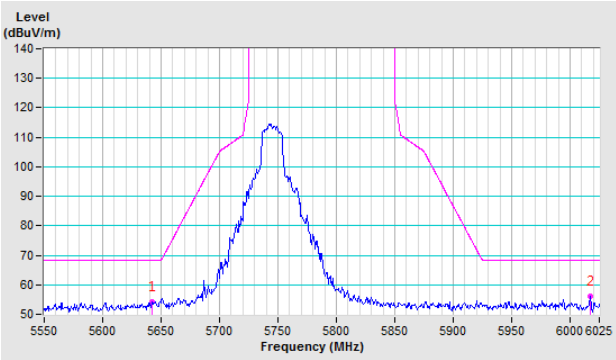
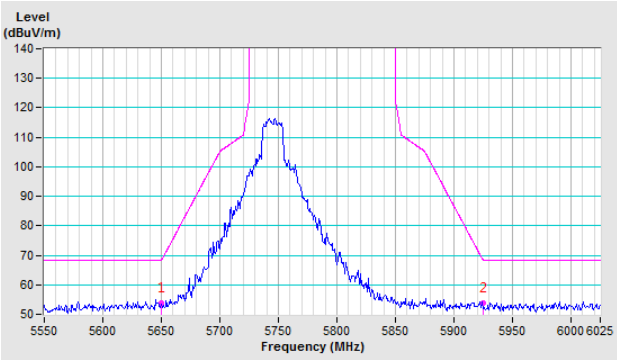
Horizontal	Vertical
	

CH 165 5825 MHz

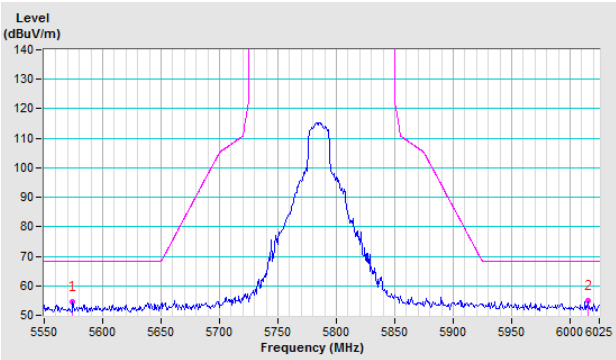
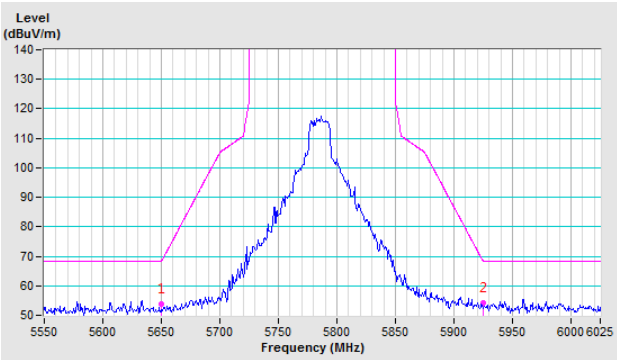
Horizontal	Vertical
	

802.11ac (VHT20)

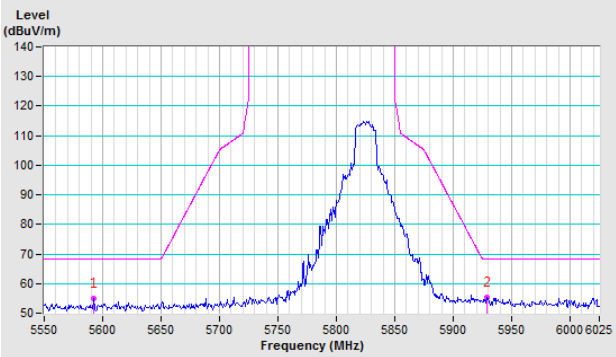
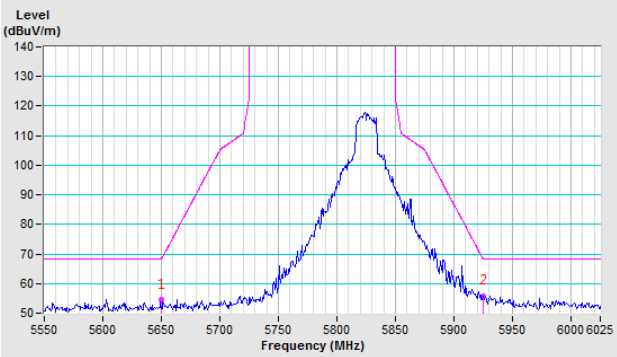
CH 149 5745 MHz

Horizontal	Vertical
	

CH 157 5785 MHz

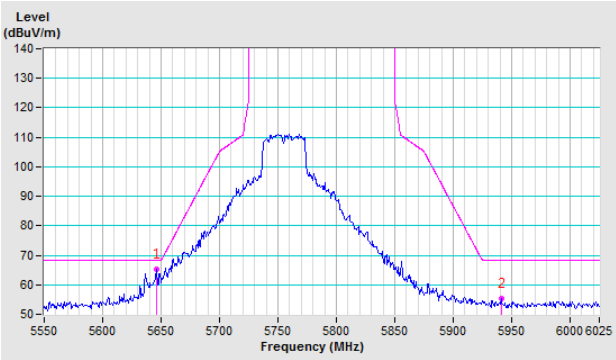
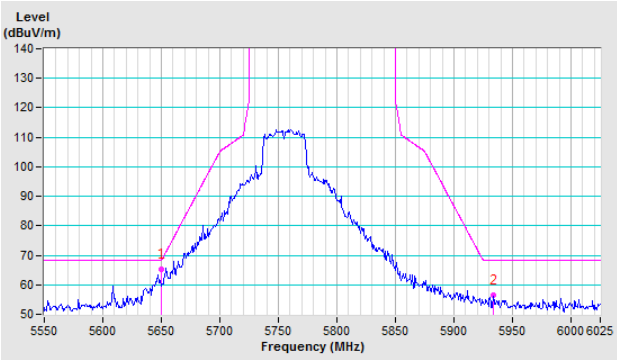
Horizontal	Vertical
	

CH 165 5825 MHz

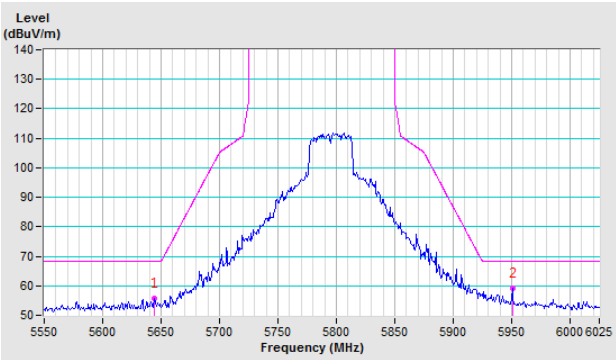
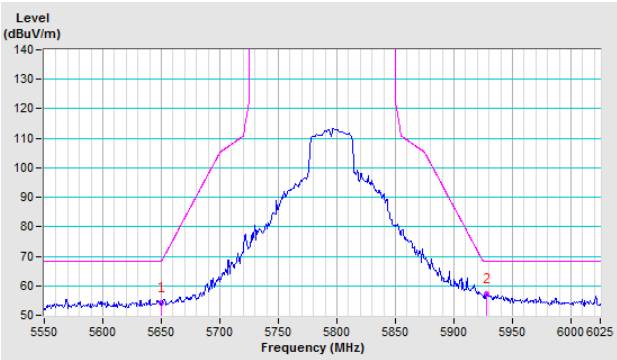
Horizontal	Vertical
	

802.11ac (VHT40)

CH 151 5755 MHz

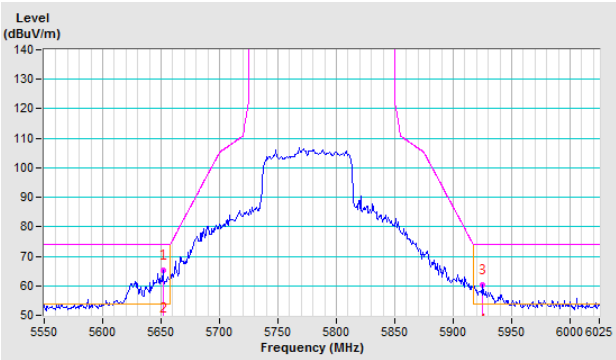
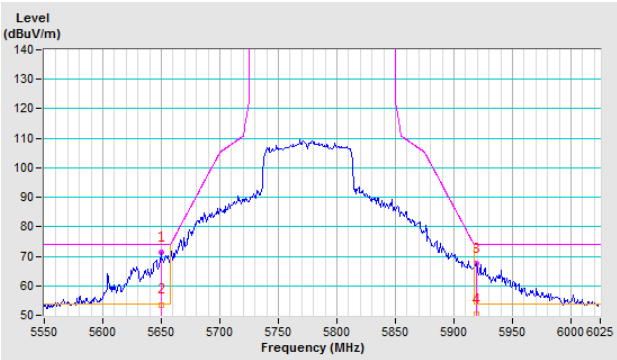
Horizontal	Vertical
	

CH 159 5795 MHz

Horizontal	Vertical
	

802.11ac (VHT80)

CH 155 5775 MHz

Horizontal	Vertical
	

Appendix – Information on 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 accredited and approved according to ISO/IEC 17025.

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

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Hwa Ya EMC/RF/Safety Lab
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Email: 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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