

FCC AND IC CERTIFICATION TEST REPORT

FOR

Applicant	:	Mercku Inc.
Address	:	51 Breithaupt Street, Suite 100 Kitchener, ON Canada, N2H 5G5
Equipment under Test	:	Wi-Fi ROUTER
Model No.	:	M2
Trade Mark	:	MERCKU
FCC ID	:	2APR4-M2
IC	:	23877-M2
Manufacturer	:	Hyku LLC
Address	:	Block B1,Southern Software Park No.1 Software Road, Tangjia Zhuhai, Guangdong, China

Issued By: Dongguan Dongdian Testing Service Co., Ltd.

Add: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park,
Dongguan City, Guangdong Province, China, 523808

Tel: +86-0769-89201699, **E-mail:** ddt@dgddt.com, <http://www.dgddt.com>

REPORT

TABLE OF CONTENTS

	Test report declares.....	4
1.	Summary of test results	7
2.	General test information.....	8
2.1.	Description of EUT	8
2.2.	Accessories of EUT	8
2.3.	Assistant equipment used for test.....	9
2.4.	Block diagram of EUT configuration for test.....	9
2.5.	Deviations of test standard	10
2.6.	Test environment conditions	11
2.7.	Test laboratory	11
2.8.	Measurement uncertainty	11
3.	Equipment used during test.....	12
4.	26dB Bandwidth, 6dB Bandwidth and 99% Bandwidth.....	13
4.1.	Block diagram of test setup	13
4.2.	Limits	13
4.3.	Test Procedure.....	13
4.4.	Test Result	14
4.5.	Original test data	15
5.	Maximum Output Power	32
5.1.	Block diagram of test setup	32
5.2.	Limits	32
5.3.	Test Procedure.....	32
5.4.	Test Result	32
5.5.	Original test data	34
6.	Power Spectral Density.....	51
6.1.	Block diagram of test setup	51
6.2.	Limits	51
6.3.	Test Procedure.....	51
6.4.	Test Result	52
6.5.	Original test data	54
7.	Frequency Stability Measurement	71
7.1.	Limit of Frequency Stability.....	71
7.2.	Measuring Instruments	71
7.3.	Test Procedures	71
7.4.	Test Setup	71
7.5.	Test Result	71

8.	Emissions in restricted frequency bands	78
8.1.	Block diagram of test setup	78
8.2.	Limit.....	79
8.3.	Test Procedure.....	81
8.4.	Test result.....	83
9.	Band Edge Compliance	91
9.1.	Block diagram of test setup	91
9.2.	Limit.....	91
9.3.	Test Procedure.....	92
9.4.	Test result.....	92
10.	Power Line Conducted Emission.....	143
10.1.	Block diagram of test setup	143
10.2.	Power Line Conducted Emission Limits(Class B)	143
10.3.	Test Procedure.....	143
10.4.	Test Result	144
11.	Antenna Requirements	149
11.1.	Limit.....	149
11.2.	Result	149

TEST REPORT DECLARE

Applicant	:	Mercku Inc.
Address	:	51 Breithaupt Street, Suite 100 Kitchener, ON Canada, N2H 5G5
Equipment under Test	:	Wi-Fi ROUTER
Model No	:	M2
Trade Mark	:	MERCKU
Manufacturer 1	:	Hyku LLC
Address 1	:	Block B1,Southern Software Park No.1 Software Road, Tangjia Zhuhai, Guangdong, China
Manufacturer 2	:	ShenZhen Mcdinet Technology Co., Ltd.
Address 2	:	Room 601, Unit A1, Kexing Science Park, No.15 Keyuan Road, Hi-tech Industrial Park, Nanshan, Shenzhen 518057, PRC
Factory	:	Shenzhen Jing Rui Technology Co., Ltd.
Address	:	Second Floor, Building D, Qiao'an Science and Technology Industrial Park, No.308 Wuhe Avenue, Zhangkeng Path Community, Guanhu Street, Longhua District, Shenzhen

Test Standard Used: FCC Rules and Regulations Part 15 Subpart E; RSS-247 Issue 2 February 2017.

Test procedure used: ANSI C63.10:2013, 789033 D02 General UNII Test Procedures New Rules v02r01; KDB662911 D01 Multiple Transmitter Output v02r01; RSS-Gen Issue 5, Apr. 2018.

We Declare:

The equipment described above is tested by Dongguan Dongdian Testing Service Co., Ltd and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Dongguan Dongdian Testing Service Co., Ltd is assumed of full responsibility for the accuracy and completeness of these tests.

After test and evaluation, our opinion is that the equipment provided for test compliance with the requirement of the above FCC&IC standards

Report No:	DDT-R18042804-1E2		
Date of Receipt:	May 07, 2018 and Aug. 20, 2019	Date of Test:	May 07, 2018 ~ Jun. 05, 2018 and Aug. 20, 2019 ~ Sep. 11, 2019

Prepared By:

Ella Gong

Ella Gong/Engineer

Approved By:



Damon Hu/EMC Manager

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Dongguan Dongdian Testing Service Co., Ltd.

Revision history

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	Jun. 05, 2018	
Rev.01	Add a Adapter and Manufacturer	Sep. 11, 2019	Ella Gong

1. Summary of test results

The EUT have been tested according to the applicable standards as referenced below.		
Description of Test Item	Standard	Results
6/26db Bandwidth and 99% Bandwidth	FCC 15.407 (e) RSS-247 Clause 6.2	PASS
Maximum Conducted Output Power	FCC 15.407 (a) RSS-247 Clause 6.2	PASS
Power Spectral Density	FCC 15.407 (a) RSS-247 Clause 6.2	PASS
Frequency Stability Measurement	FCC 15.407 (g)	PASS
Emissions in restricted frequency bands	FCC 15.407 (a) FCC 15.209 FCC 15.205 RSS-247 Clause 6.2 RSS-GEN Clause 8.9	PASS
Band Edge Compliance	FCC 15.407 (a) FCC 15.209 FCC 15.205 RSS-247 Clause 6.2 RSS-GEN Clause 8.9	PASS
Power Line Conducted Emission	FCC 15.207 RSS-GEN Clause 8.8	PASS
Antenna requirement	FCC 15.203 RSS-GEN Clause 8.3	PASS
Dynamic Frequency Selection	FCC 15.407 (h) RSS-247 Clause 6.3	N/A
Note 1: N/A is an abbreviation for Not Applicable.		
Note 2: This report added a Adapter and Manufacturer based on the original report: DDT-R18042804-1E2, these changes don't influence the RF performance, so only radiated emission (below 1GHz) and Power Line Conducted Emissions were tested and recorded in this report, and the original test data was retained in this report.		

2. General test information

2.1. Description of EUT

EUT* Name	: Wi-Fi ROUTER
Model Number	: M2
EUT function description	: Please reference user manual of this device
Power supply	: DC 12V from external AC Adapter
Radio Technology	: IEEE802.11n/a/ac
Operation frequency	: IEEE 802.11a: 5180MHz-5240MHz, 5745MHz-5825MHz IEEE 802.11n HT20: 5180MHz-5240MHz, 5745MHz-5825MHz IEEE 802.11n HT40: 5190MHz-5230MHz, 5755MHz-5795MHz IEEE 802.11ac HT20: 5180MHz-5240MHz, 5745MHz-5825MHz IEEE 802.11ac HT40: 5190MHz-5230MHz, 5755MHz-5795MHz IEEE 802.11ac HT80: 5210MHz, 5775MHz
Modulation	: IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)
Transmitter rate	: IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps IEEE 802.11n HT20: up to 150 Mbps, HT40: up to 300 Mbps IEEE 802.11ac VHT20: up to 150 Mbps, VHT40: up to 300 Mbps VHT80: up to 886.7 Mbps
Antenna Type	: Integrated antenna 1: 5G band maximum PK gain -1dBi Integrated antenna 2: 5G band maximum PK gain -1dBi The EUT incorporates a MIMO function. Physically, it provides two completed transmitters and receivers(2T2R), two transmit signals are completely uncorrelated, then, Direction gain= G_{ANT}
Sample Type	: Series production

Note: EUT is the ab. of equipment under test.

2.2. Accessories of EUT

Description of Accessories	Manufacturer	Model number	Serial No.	Other
Power adapter	MERCKU	EP30-120150WXCA	N/A	Input: 110-240V~50/60Hz 0.5A Max Output: 12V/1.5A
AC/DC ADAPTER	Shenzhen Keyu Power Supply Technology Co., Ltd.	KA1801A-1201500E U	N/A	Input: 110-240V~50/60Hz 0.55A Max Output: 12V/1.5A
Network Cable	N/A	N/A	N/A	Length: 0.5m

2.3. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	EMC Compliance	SN
Notebook	DELL	Latitude D610	FCC DOC	00045-534-136-300

2.4. Block diagram of EUT configuration for test



EUT was connected to Notebook which has a standard LAN PORT connector, and the Notebook will run a special test software “MP_Test. EXE” provided by manufacturer to control EUT work in Continuous Tx mode (>98% duty cycle), and select test channel, wireless mode and data rate.

Tested mode, channel, and data rate information					
Mode	Setting Tx Power (ANT1)	Setting Tx Power (ANT2)	data rate (Mbps) (see Note)	Channel	Frequency (MHz)
IEEE 802.11a	35	/	6	Low :CH36	5180
	34	/	6	Middle: CH40	5200
	33	/	6	High: CH48	5240
	32	/	6	Low :CH149	5745
	32	/	6	Middle: CH157	5785
	32	/	6	High: CH165	5825
IEEE 802.11n HT20	35	31	MCS 8	Low :CH36	5180
	35	31	MCS 8	Middle: CH40	5200
	34	30	MCS 8	High: CH48	5240
	30	25	MCS 8	Low :CH149	5745
	32	22	MCS 8	Middle: CH157	5785
	30	22	MCS 8	High: CH165	5825
IEEE 802.11n HT40	33	29	MCS 8	Low :CH36	5190
	32	28	MCS 8	High: CH44	5230
	29	25	MCS 8	Low: CH149	5755
	30	21	MCS 8	High: CH157	5795
IEEE 802.11ac VHT20	32	29	NSS1 MCS 8	Low :CH36	5180
	31	27	NSS1 MCS 8	Middle: CH40	5200
	31	26	NSS1 MCS 8	High: CH48	5240
	30	25	NSS1 MCS 8	Low :CH149	5745
	32	22	NSS1 MCS 8	Middle: CH157	5785
	30	22	NSS1 MCS 8	High: CH165	5825
IEEE 802.11ac VHT40	30	26	NSS1 MCS 8	Low :CH36	5190
	31	26	NSS1 MCS 8	High: CH44	5230
	29	25	NSS1 MCS 8	Low: CH149	5755
	30	21	NSS1 MCS 8	High: CH157	5795
IEEE 802.11ac VHT80	28	26	NSS1 MCS 8	CH36	5210
	28	24	NSS1 MCS 8	CH149	5775
Note: According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.					

2.5. Deviations of test standard

No Deviation.

2.6. Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature range:	21-25℃
Humidity range:	40-75%
Pressure range:	86-106kPa

2.7. Test laboratory

Dongguan Dongdian Testing Service Co., Ltd

Add: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong Province, China, 523808

Tel: +86-0769-89201699, <http://www.dgddt.com>, Email: ddt@dgddt.com

CNAS Accreditation No. L6451; A2LA Accreditation No. 3870.01

Designation Number: CN1182; Test Firm Registration Number: 540522

Industry Canada site registration number: 10288A-1

2.8. Measurement uncertainty

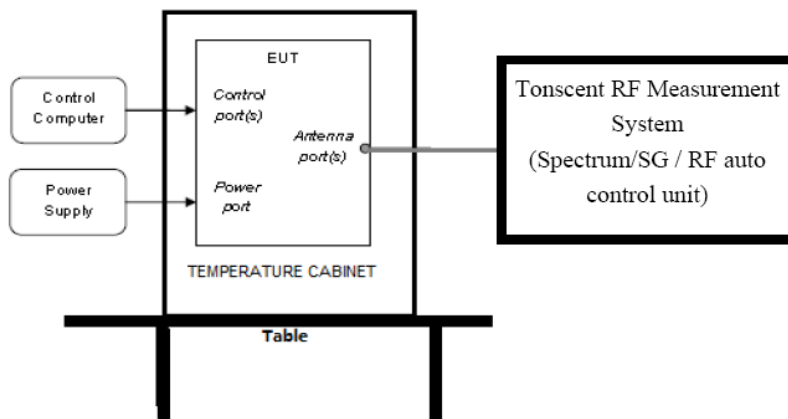
Test Item	Uncertainty
Bandwidth	1.1%
Peak Output Power(Conducted)(Spectrum analyzer)	0.86dB (10 MHz ≤ f < 3.6GHz); 1.38dB (3.6GHz ≤ f < 8GHz)
Peak Output Power(Conducted)(Power Sensor)	0.74dB
Power Spectral Density	0.74dB (10 MHz ≤ f < 3.6GHz); 1.38dB (3.6GHz ≤ f < 8GHz)
Frequencies Stability	6.7 × 10 ⁻⁸ (Antenna couple method) 5.5 × 10 ⁻⁸ (Conducted method)
Conducted spurious emissions	0.86dB (10 MHz ≤ f < 3.6GHz); 1.40dB (3.6GHz ≤ f < 8GHz) 1.66dB (8GHz ≤ f < 22GHz)
Uncertainty for radio frequency (RBW<20kHz)	3×10 ⁻⁸
Temperature	0.4℃
Humidity	2%
Uncertainty for Radiation Emission test (30MHz-1GHz)	4.70 dB (Antenna Polarize: V) 4.84 dB (Antenna Polarize: H)
Uncertainty for Radiation Emission test (1GHz-40GHz)	4.10dB (1-6GHz) 4.40dB (6GHz-18GHz) 3.54dB (18GHz-26GHz) 4.30dB (26GHz-40GHz)
Uncertainty for Power line conduction emission test	3.32dB (150kHz-30MHz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

3. Equipment used during test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
RF Connected Test (Tonscend RF Measurement System)					
Spectrum analyzer	R&S	FSU26	200071	Oct. 23, 2017	1 Year
Spectrum analyzer	Agilent	E4447A	MY50180031	Jun. 16, 2017	1 Year
Wideband Radio Communication tester	R&S	CMW500	117491	Jun. 16, 2017	1 Year
Vector Signal Generator	Agilent	E8267D	US49060192	Oct. 23, 2017	1 Year
Vector Signal Generator	Agilent	N5182A	MY48180737	Jun.16, 2017	1 Year
Power Sensor	Agilent	U2021XA	MY55150010	Oct. 21, 2017	1 Year
Power Sensor	Agilent	U2021XA	MY55150011	Oct. 23, 2017	1 Year
DC Power Source	MATRIS	MPS-3005L-3	D813058W	Aug. 18, 2017	1 Year
Attenuator	Mini-Circuits	BW-S10W2	101109	Aug. 18, 2017	1 Year
RF Cable	Micable	C10-01-01-1	100309	Oct. 21, 2017	1 Year
Temp&Humi Programmable	ZHIXIANG	ZXGDJS-150 L	ZX170110-A	Oct. 21, 2017	1 Year
Test Software	JS Tonscend	JS1120-3	Ver.2.7	N/A	N/A
Radiated Emission Test Chamber 1#					
EMI Test Receiver	R&S	ESU8	100316	Oct. 21, 2017	1 Year
Spectrum analyzer	Agilent	E4447A	MY50180031	Jun. 16, 2017	1 Year
Trilog Broadband Antenna	Schwarzbeck	VULB9163	9163-462	Nov. 09, 2017	1 Year
Active Loop antenna	Schwarzbeck	FMZB-1519	1519-038	Oct. 17, 2017	1 Year
Double Ridged Horn Antenna	R&S	HF907	100276	Oct. 17, 2017	1 Year
Broad Band Horn Antenna	Schwarzbeck	BBHA 9170	790	Nov. 09, 2017	1 Year
Pre-amplifier	A.H.	PAM-0118	360	Oct. 21, 2017	1 Year
Pre-amplifier	TERA-MW	TRLA-0040G 35	101303	Oct. 21, 2017	1 Year
RF Cable	HUBSER	CP-X2+ CP-X1	W11.03+ W12.02	Oct. 21, 2017	1 Year
RF Cable	N/A	SMAJ-SMAJ-1M+ 11M	17070133+17070131	Nov. 08, 2017	1 Year
MI Cable	HUBSER	C10-01-01-1 M	1091629	Oct. 21, 2017	1 Year
Test software	Audix	E3	V 6.11111b	N/A	N/A
Power Line Conducted Emissions Test					
Test Receiver	R&S	ESPI	101761	Oct. 21, 2017	1 Year
LISN 1	R&S	ENV216	101109	Oct. 21, 2017	1 Year
LISN 2	R&S	ESH2-Z5	100309	Oct. 21, 2017	1 Year
Pulse Limiter	R&S	ESH3-Z2	101242	Oct. 21, 2017	1 Year
CE Cable 1	HUBSER	N/A	W10.01	Oct. 21, 2017	1 Year
Test software	Audix	E3	V 6.11111b	N/A	N/A

4. 26dB Bandwidth, 6dB Bandwidth and 99% Bandwidth

4.1. Block diagram of test setup



4.2. Limits

FCC Part15, Subpart E/ RSS-247		
Test Item	Limit	Frequency Range (MHz)
Bandwidth	26 dB Bandwidth	5150-5250
	Minimum 500kHz 6dB Bandwidth	5725-5850

4.3. Test Procedure

(1) Connect EUT's antenna output to spectrum analyzer by RF cable.

Center Frequency	The centre frequency of the channel under test
Detector	Peak
RBW	For 6dB Bandwidth: RBW=300kHz For 26dB Bandwidth: approximately 1% of the emission bandwidth.
VBW	For 6dB Bandwidth: VBW=1MHz For 26dB Bandwidth : >3RBW
Trace	Max hold
Sweep	Auto couple

(2) Allow the trace to stabilize, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 26 dB or 6dB relative to the maximum level measured in the fundamental emission.

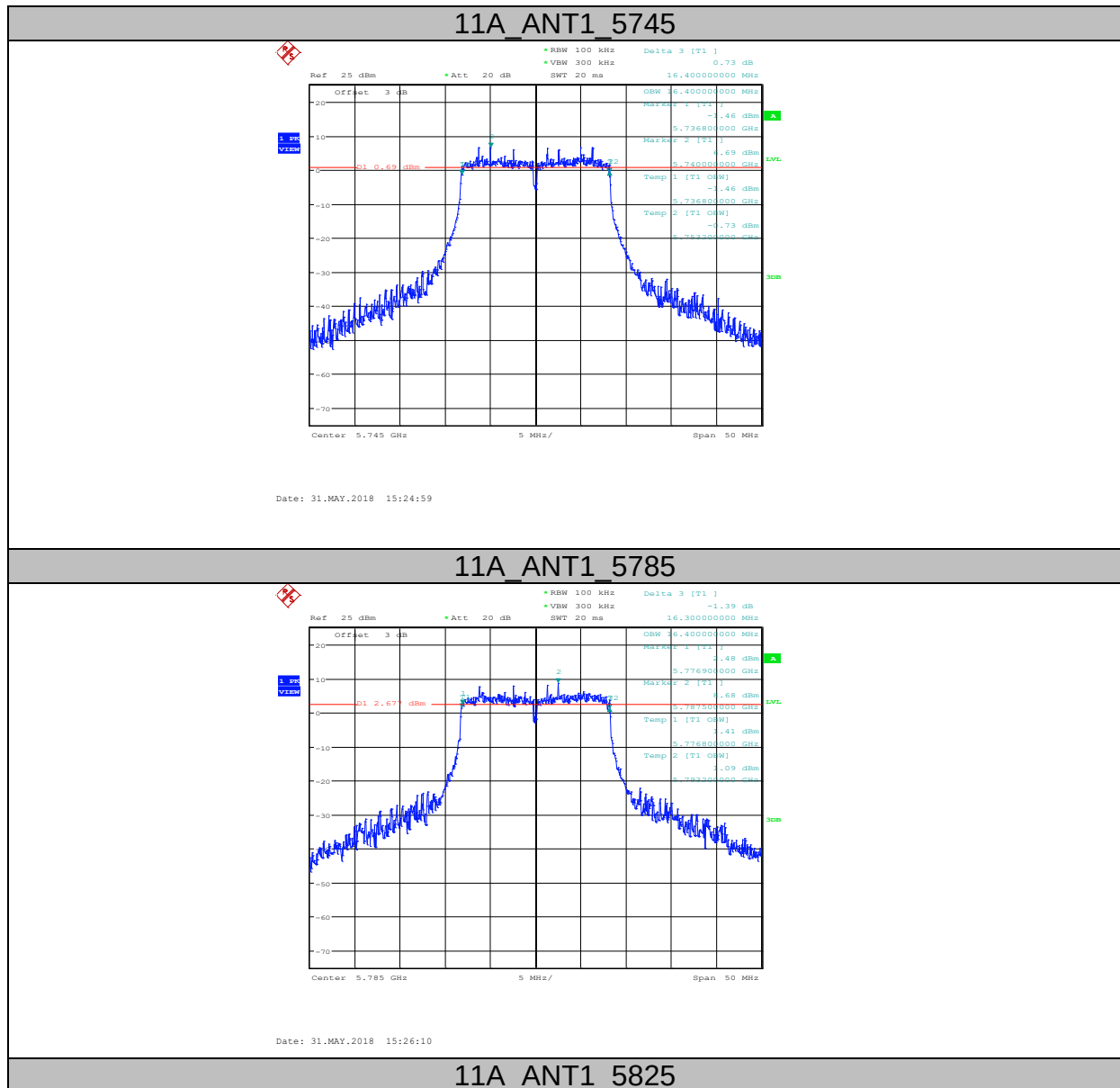
4.4. Test Result

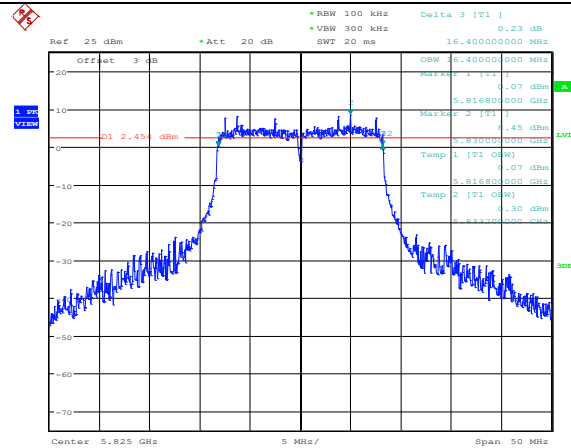
TestMode	Antenna	Channel	99% BW	26dB Bandwidth	Limit	Verdict
11A	ANT1	5180	16.70	20.200	---	PASS
11A	ANT1	5200	16.70	20.550	---	PASS
11A	ANT1	5240	16.70	20.250	---	PASS
11N20	ANT1	5180	17.70	21.150	---	PASS
11N20	ANT2	5180	17.65	20.800	---	PASS
11N20	ANT1	5200	17.75	21.250	---	PASS
11N20	ANT2	5200	17.65	20.650	---	PASS
11N20	ANT1	5240	17.75	21.200	---	PASS
11N20	ANT2	5240	17.65	20.950	---	PASS
11N40	ANT1	5190	36.20	42.900	---	PASS
11N40	ANT2	5190	36.20	40.400	---	PASS
11N40	ANT1	5230	36.30	42.500	---	PASS
11N40	ANT2	5230	36.10	40.600	---	PASS
11AC20	ANT1	5180	17.95	21.200	---	PASS
11AC20	ANT2	5180	17.90	21.350	---	PASS
11AC20	ANT1	5200	17.90	21.250	---	PASS
11AC20	ANT2	5200	17.90	21.300	---	PASS
11AC20	ANT1	5240	17.90	21.150	---	PASS
11AC20	ANT2	5240	17.95	21.300	---	PASS
11AC40	ANT1	5190	36.20	35.800	---	PASS
11AC40	ANT2	5190	36.10	35.700	---	PASS
11AC40	ANT1	5230	36.10	35.800	---	PASS
11AC40	ANT2	5230	36.10	35.800	---	PASS
11AC80	ANT1	5210	75.20	79.800	---	PASS
11AC80	ANT2	5210	75.40	79.000	---	PASS

TestMode	Antenna	Channel	99% BW	6dB Bandwidth	Limit	Verdict
11A	ANT1	5745	16.40	16.400	0.5	PASS
11A	ANT1	5785	16.40	16.300	0.5	PASS
11A	ANT1	5825	16.40	16.400	0.5	PASS
11N20	ANT1	5745	17.50	16.350	0.5	PASS
11N20	ANT2	5745	17.55	16.150	0.5	PASS
11N20	ANT1	5785	17.50	16.150	0.5	PASS
11N20	ANT2	5785	17.55	16.900	0.5	PASS
11N20	ANT1	5825	17.55	16.650	0.5	PASS
11N20	ANT2	5825	17.55	16.650	0.5	PASS
11N40	ANT1	5755	36.10	35.900	0.5	PASS
11N40	ANT2	5755	36.10	35.900	0.5	PASS
11N40	ANT1	5795	36.10	35.300	0.5	PASS
11N40	ANT2	5795	36.10	36.100	0.5	PASS
11AC20	ANT1	5745	17.55	16.800	0.5	PASS
11AC20	ANT2	5745	17.60	16.400	0.5	PASS
11AC20	ANT1	5785	17.50	16.850	0.5	PASS
11AC20	ANT2	5785	17.60	16.850	0.5	PASS
11AC20	ANT1	5825	17.55	17.300	0.5	PASS
11AC20	ANT2	5825	17.60	16.800	0.5	PASS
11AC40	ANT1	5755	36.50	42.100	0.5	PASS

11AC40	ANT2	5755	36.40	41.400	0.5	PASS
11AC40	ANT1	5795	36.40	42.200	0.5	PASS
11AC40	ANT2	5795	36.40	41.500	0.5	PASS
11AC80	ANT1	5775	75.20	79.800	0.5	PASS
11AC80	ANT2	5775	75.40	79.000	0.5	PASS

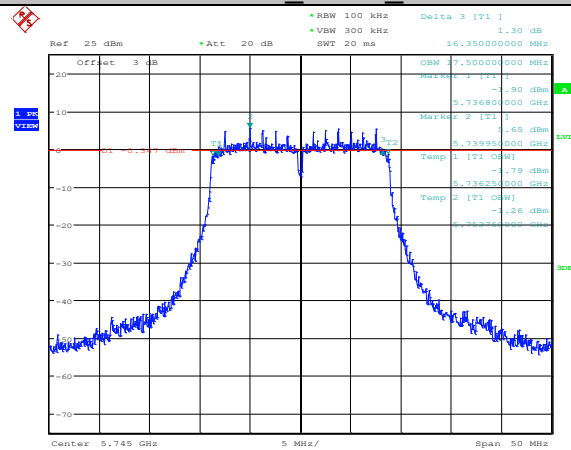
4.5. Original test data





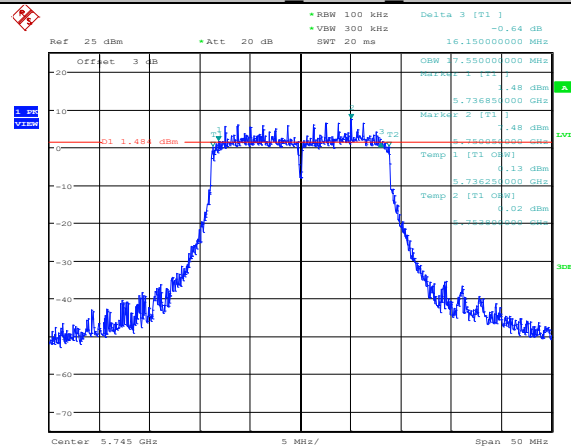
Date: 31.MAY.2018 15:27:16

11N20 ANT1 5745



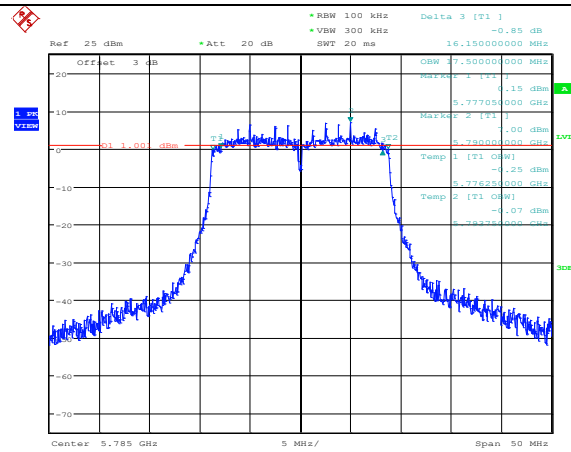
Date: 31.MAY.2018 15:35:22

11N20 ANT2 5745



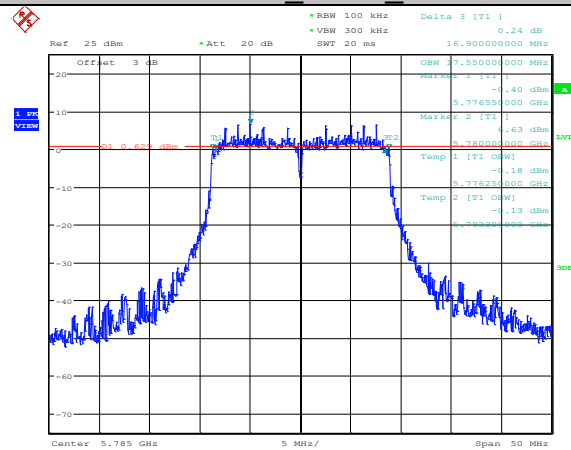
Date: 1.JUN.2018 08:32:12

11N20 ANT1 5785



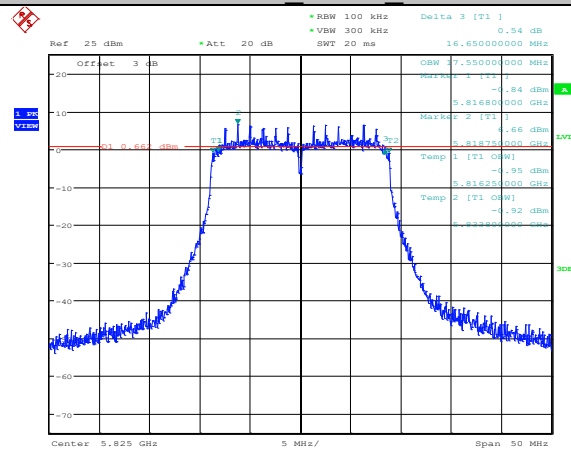
Date: 31.MAY.2018 15:37:11

11N20 ANT2 5785



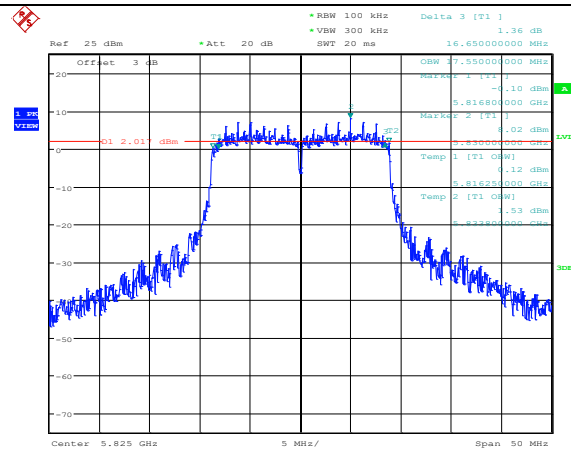
Date: 1.JUN.2018 08:33:21

11N20 ANT1 5825



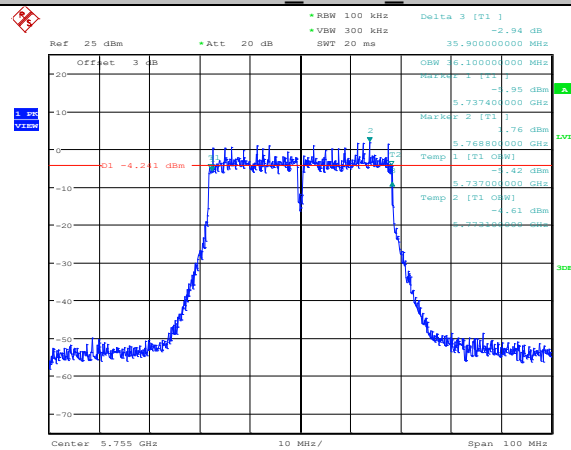
Date: 31.MAY.2018 15:38:27

11N20 ANT2 5825



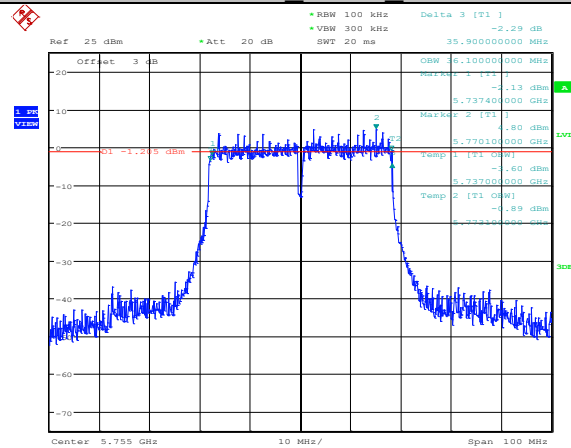
Date: 1.JUN.2018 08:35:23

11N40 ANT1 5755



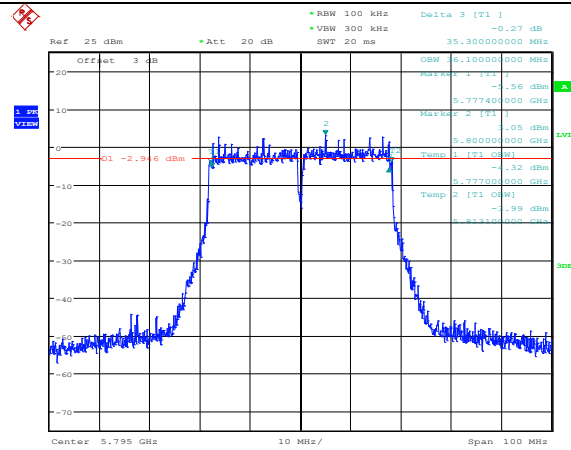
Date: 31.MAY.2018 16:23:08

11N40 ANT2 5755



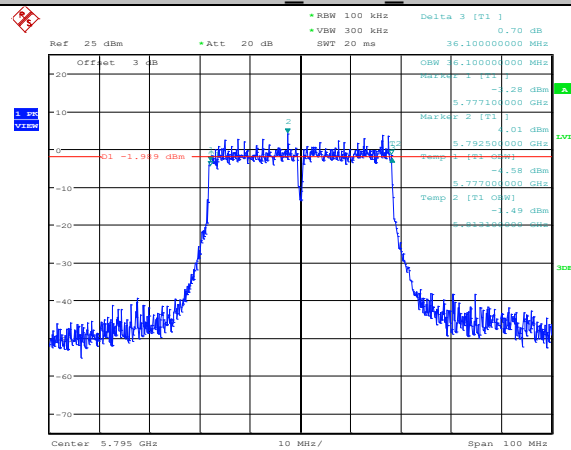
Date: 1.JUN.2018 09:26:44

11N40 ANT1 5795



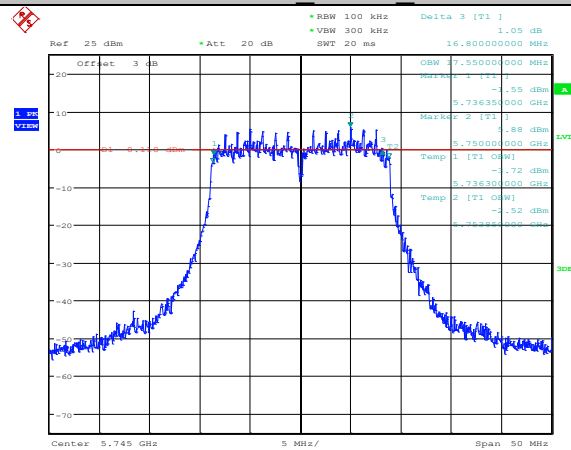
Date: 31.MAY.2018 16:24:42

11N40 ANT2 5795



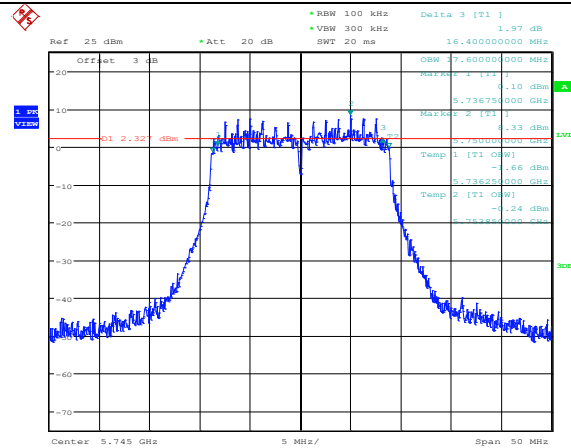
Date: 1.JUN.2018 09:28:04

11AC20 ANT1 5745



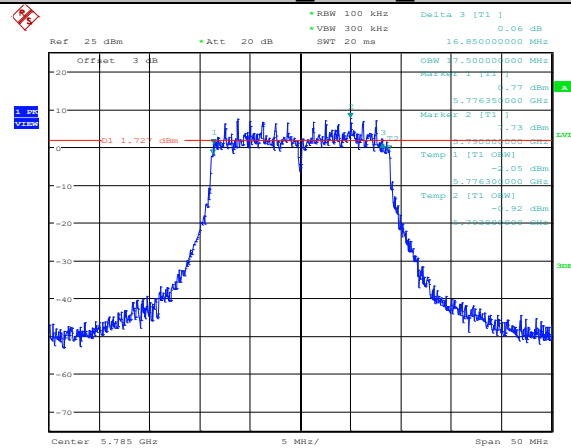
Date: 31.MAY.2018 16:05:15

11AC20 ANT2 5745



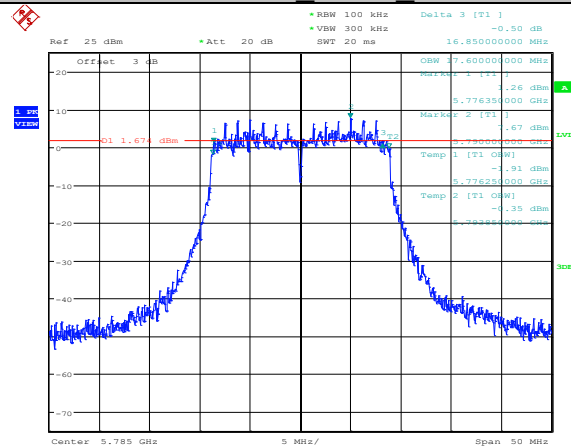
Date: 1.JUN.2018 09:08:36

11AC20 ANT1 5785



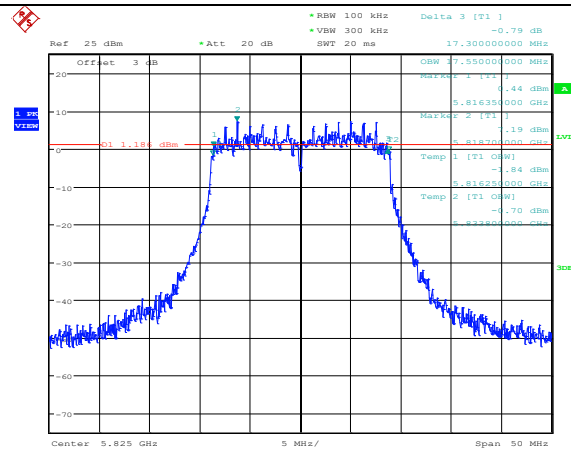
Date: 31.MAY.2018 16:06:42

11AC20 ANT2 5785



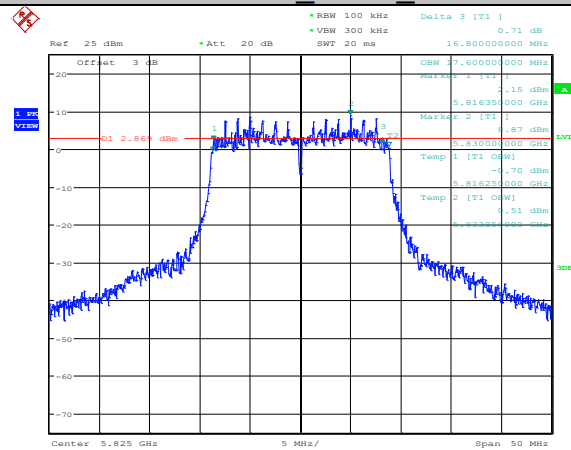
Date: 1.JUN.2018 09:09:45

11AC20 ANT1 5825



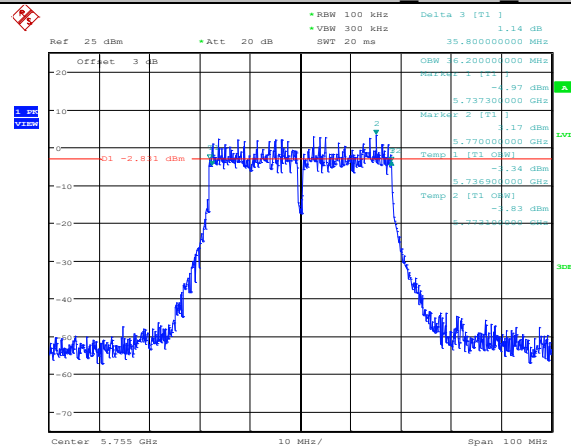
Date: 31.MAY.2018 16:07:54

11AC20 ANT2 5825



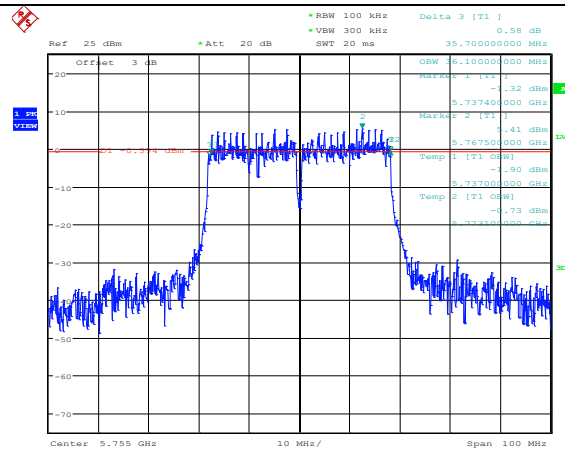
Date: 1.JUN.2018 09:13:04

11AC40 ANT1 5755

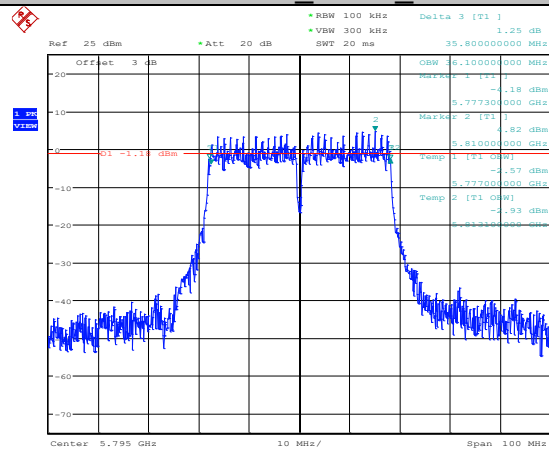


Date: 31.MAY.2018 16:32:25

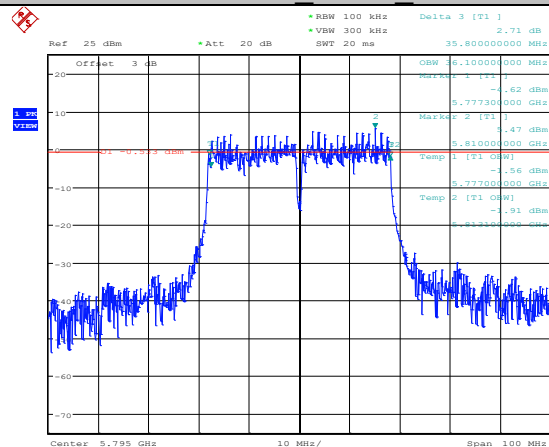
11AC40 ANT2 5755



Date: 1.JUN.2018 09:34:25

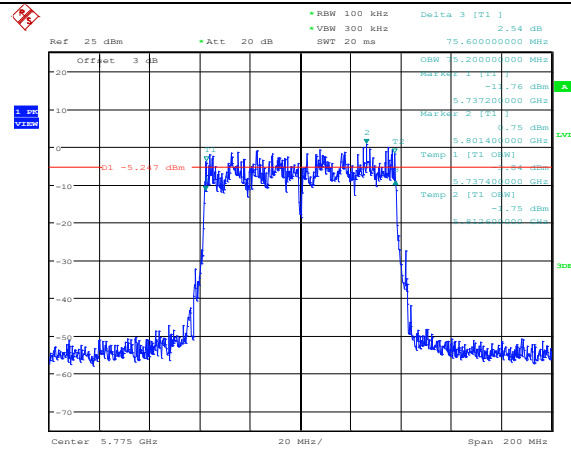
11AC40 ANT1 5795

Date: 31.MAY.2018 16:33:41

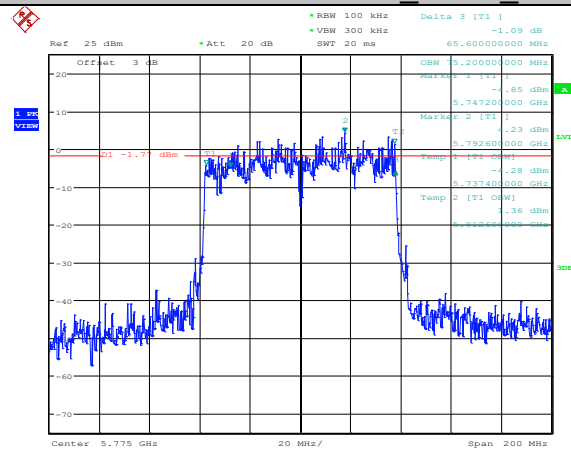
11AC40 ANT2 5795

Date: 1.JUN.2018 09:35:31

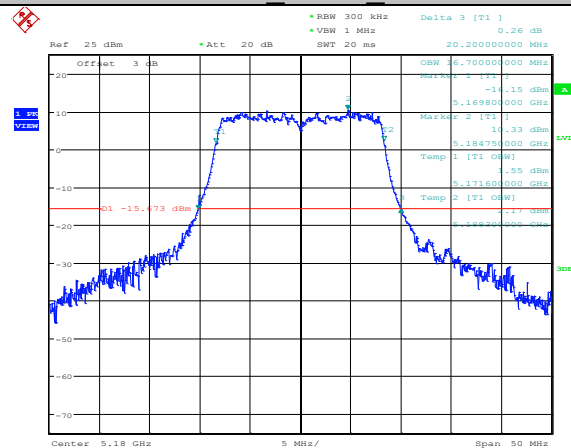
11AC80 ANT1 5775



Date: 31.MAY.2018 16:38:13

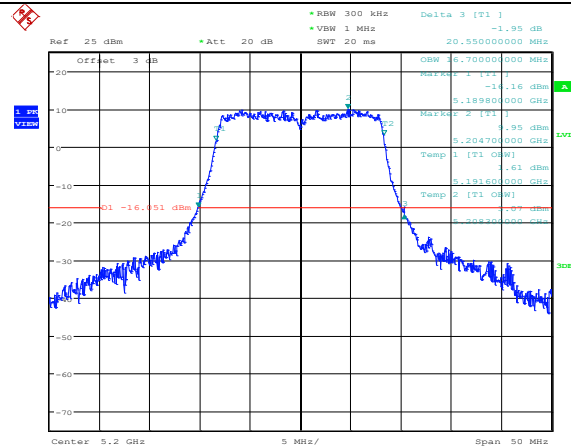
11AC80 ANT2 5775

Date: 1.JUN.2018 09:40:22

11A ANT1 5180

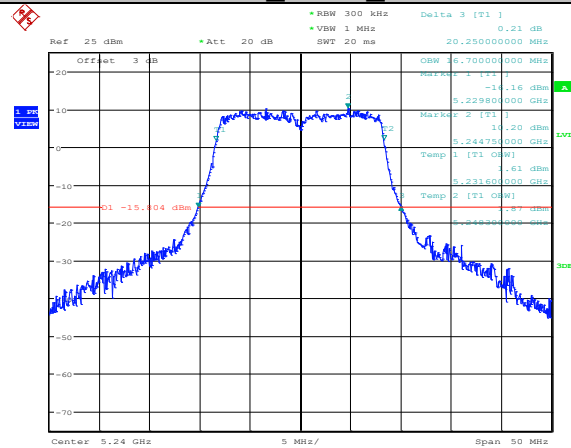
Date: 31.MAY.2018 15:12:05

11A ANT1 5200



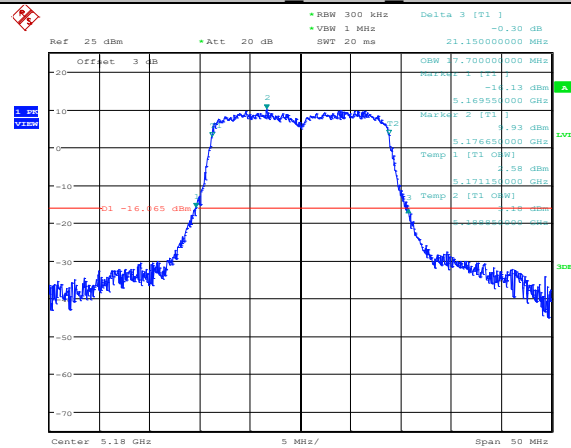
Date: 31.MAY.2018 15:16:55

11A ANT1 5240



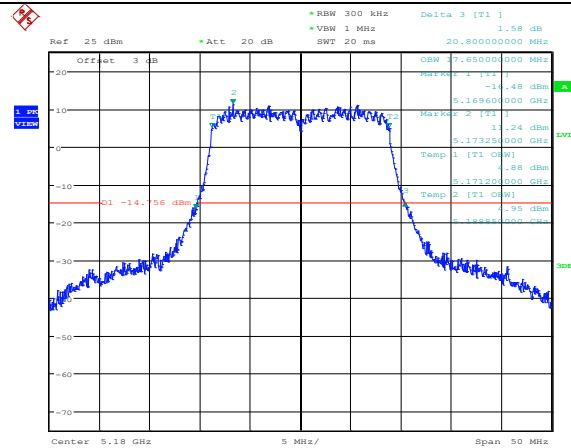
Date: 31.MAY.2018 15:21:25

11N20 ANT1 5180



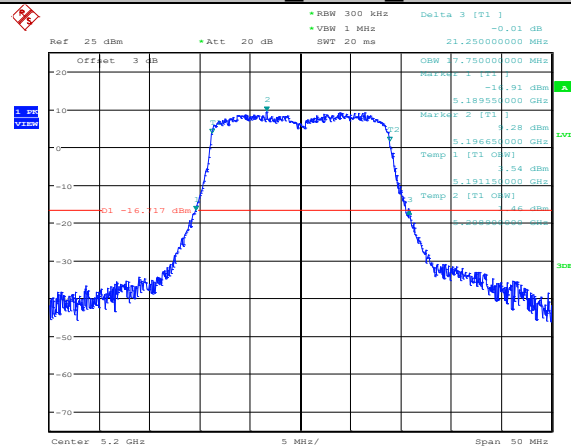
Date: 31.MAY.2018 15:29:50

11N20 ANT2 5180



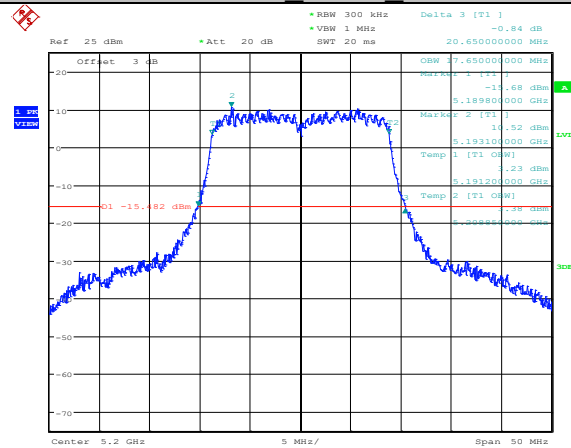
Date: 1.JUN.2018 08:25:05

11N20 ANT1 5200



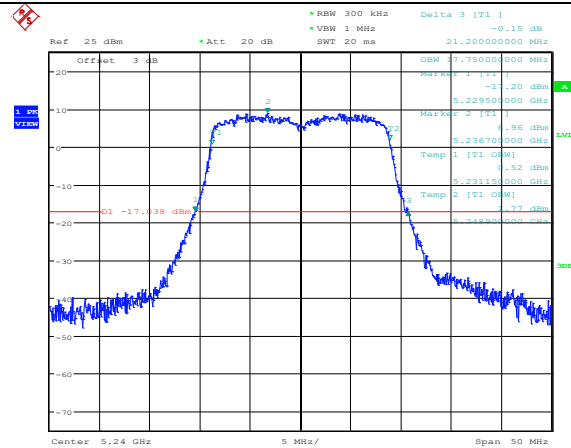
Date: 31.MAY.2018 15:31:14

11N20 ANT2 5200

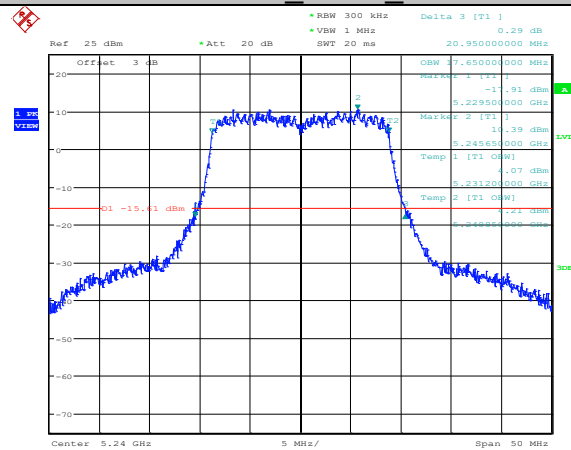


Date: 1.JUN.2018 08:29:46

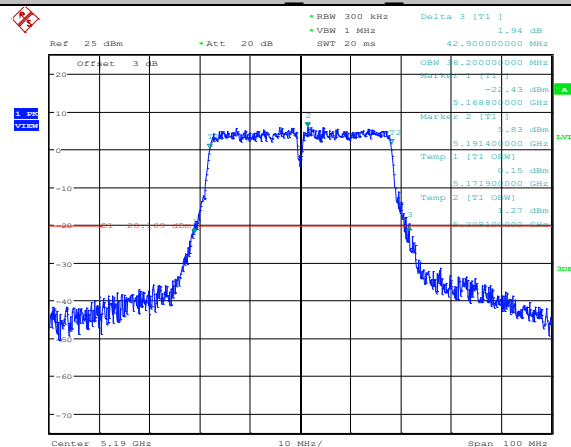
11N20 ANT1 5240



Date: 31.MAY.2018 15:32:38

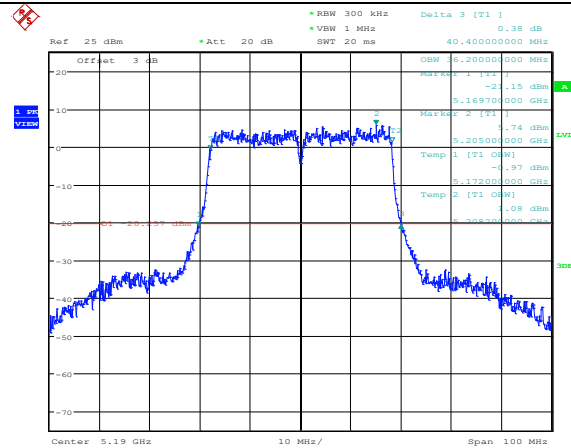
11N20 ANT2 5240

Date: 1.JUN.2018 08:30:55

11N40 ANT1 5190

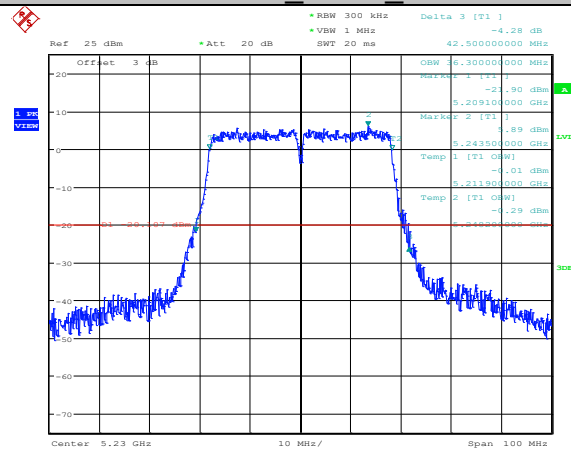
Date: 31.MAY.2018 16:17:28

11N40 ANT2 5190



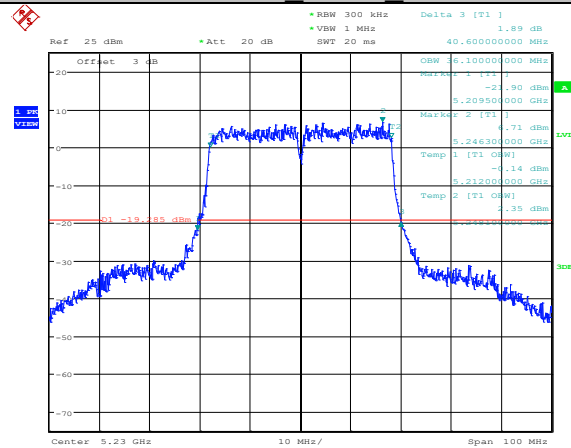
Date: 1.JUN.2018 09:23:22

11N40 ANT1 5230



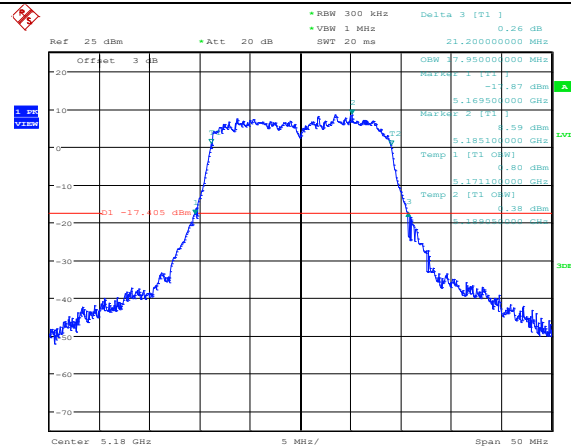
Date: 31.MAY.2018 16:21:10

11N40 ANT2 5230



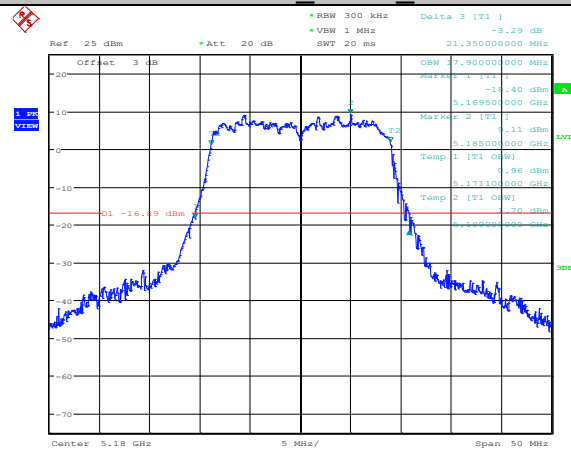
Date: 1.JUN.2018 09:25:24

11AC20 ANT1 5180



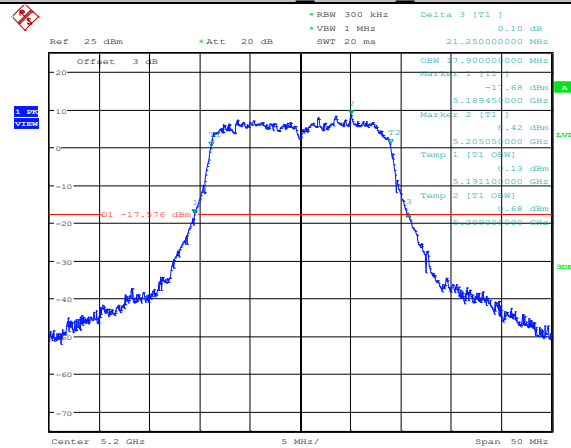
Date: 31.MAY.2018 15:56:38

11AC20 ANT2 5180



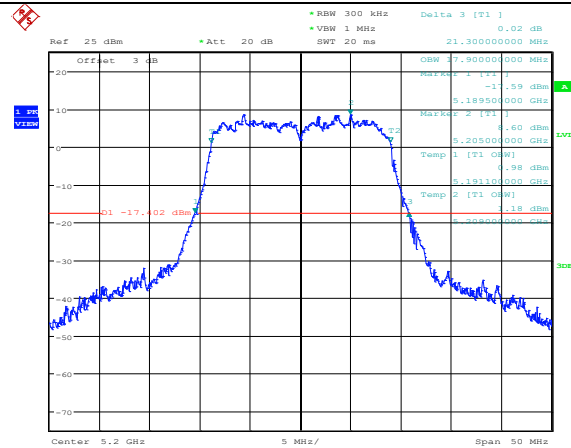
Date: 1.JUN.2018 08:39:57

11AC20 ANT1 5200



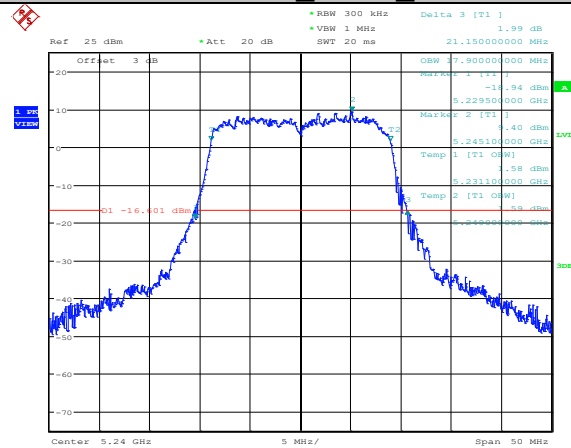
Date: 31.MAY.2018 16:01:14

11AC20 ANT2 5200



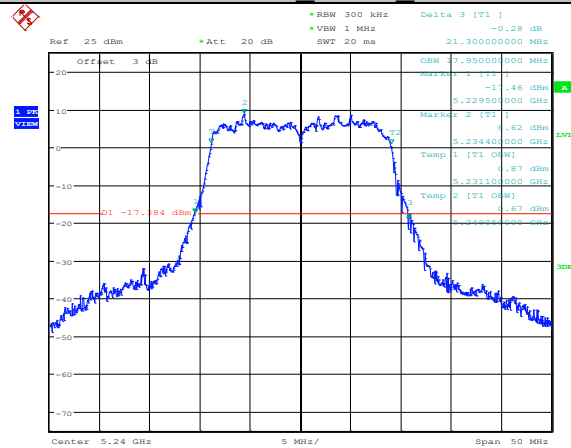
Date: 1.JUN.2018 08:45:58

11AC20 ANT1 5240



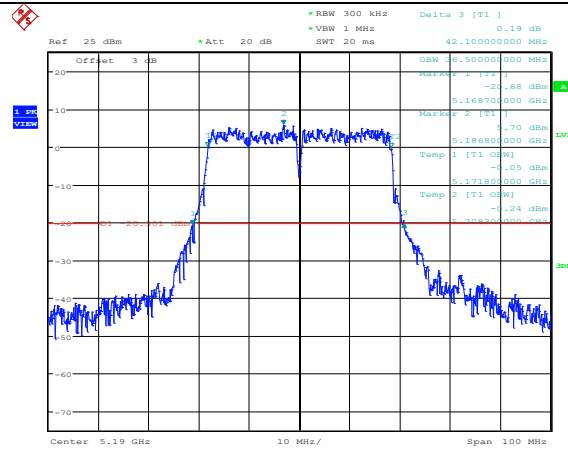
Date: 31.MAY.2018 16:03:32

11AC20 ANT2 5240



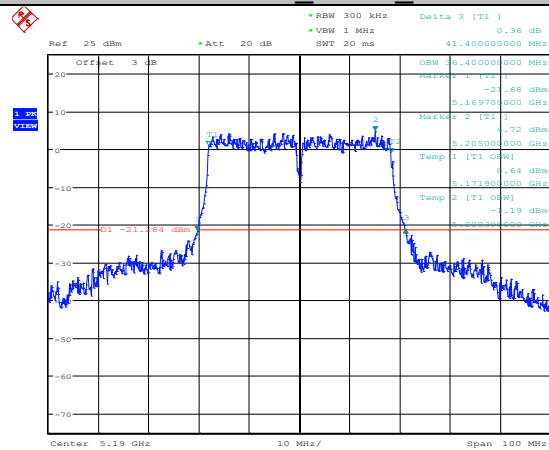
Date: 1.JUN.2018 09:05:05

11AC40 ANT1 5190



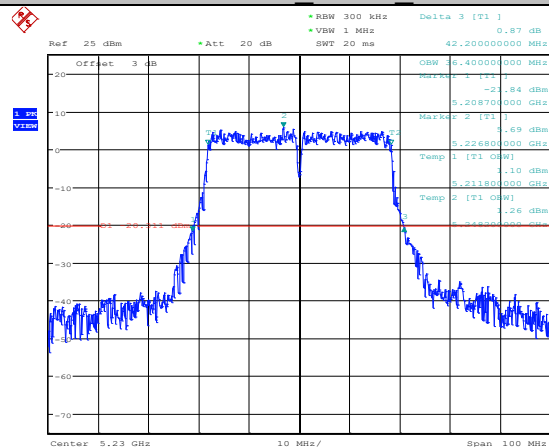
Date: 7.JUN.2018 13:09:49

11AC40 ANT2 5190



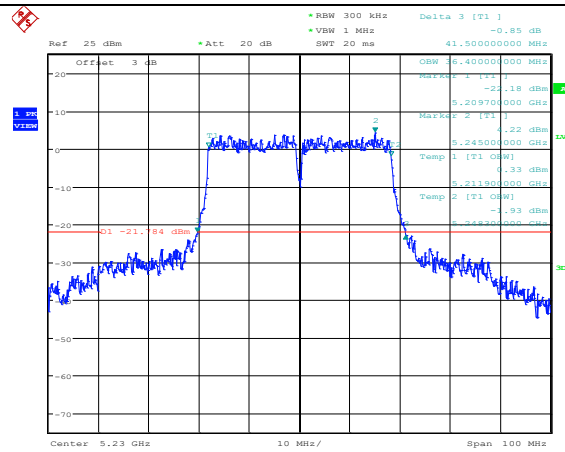
Date: 7.JUN.2018 13:12:44

11AC40 ANT1 5230



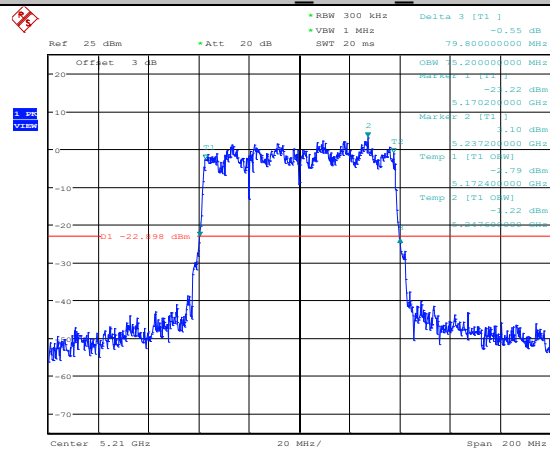
Date: 7.JUN.2018 13:17:00

11AC40 ANT2 5230



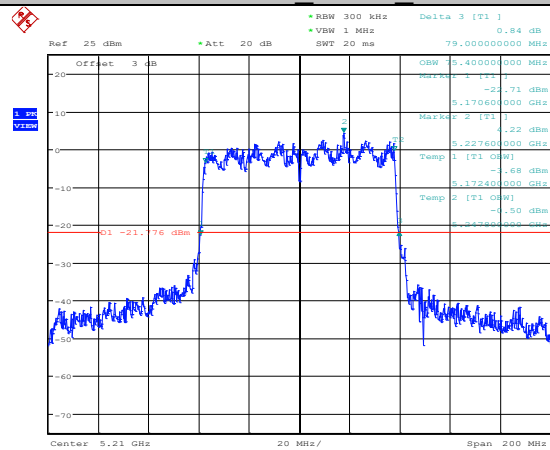
Date: 7.JUN.2018 13:14:56

11AC80 ANT1 5210



Date: 7.JUN.2018 13:19:54

11AC80 ANT2 5210



Date: 7.JUN.2018 13:23:25

5. Maximum Output Power

5.1. Block diagram of test setup

Same as section 4.1

5.2. Limits

FCC Part15, Subpart E/ RSS-247		
Test Item	Limit	Frequency Range (MHz)
Conducted Output Power	For FCC: shall not exceed 250 mW (23.98dBm)	5150-5250
	For RSS: e.i.r.p. power: not exceed 200 mW(23dBm) or $10 + 10 \log_{10} B$	
	1 Watt (30dBm)	5725-5850
Note: For FCC: B=26dB bandwidth, ISED: B=99% bandwidth.		

5.3. Test Procedure

- (1) Connect each EUT's antenna output to Spectrum Analyzer by RF cable and attenuator
- (2) Add each antenna port's results to get the total output power of EUT.

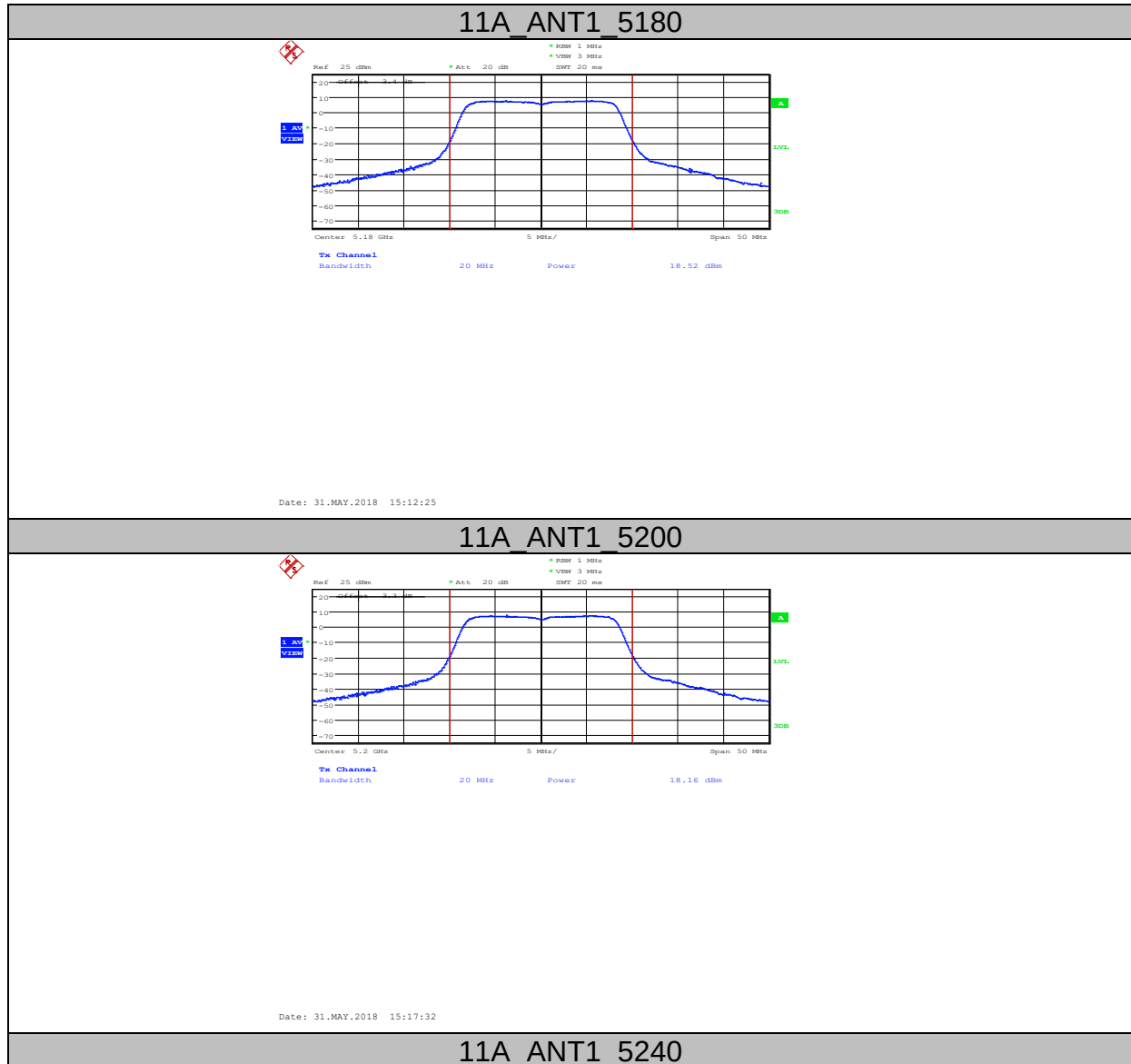
5.4. Test Result

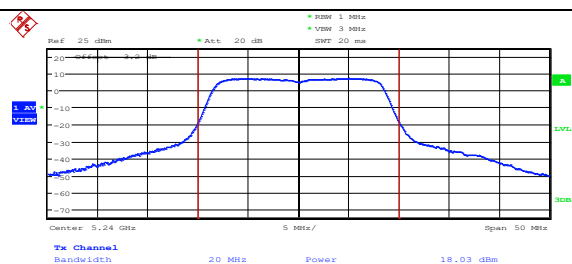
TestMode	Antenna	Channel	Output Power [dBm]	EIRP [dBm]	FCC LIMIT	ISED LIMIT (EIRP10 + 10 log10 B)	Verdict
11A	ANT1	5180	18.52	17.52	23.98	22.15	PASS
11A	ANT1	5200	18.16	17.16	23.98	22.15	PASS
11A	ANT1	5240	18.03	17.03	23.98	22.15	PASS
11A	ANT1	5745	18.19	17.19	30.00	30.00	PASS
11A	ANT1	5785	20.43	19.43	30.00	30.00	PASS
11A	ANT1	5825	20.02	19.02	30.00	30.00	PASS
11N20	ANT1	5180	17.85	16.85	23.98	22.15	PASS
11N20	ANT2	5180	18.44	17.44	23.98	22.15	PASS
11N20	ANT1+ ANT2	5180	21.17	20.17	23.98	22.15	PASS
11N20	ANT1	5200	17.98	16.98	23.98	22.15	PASS
11N20	ANT2	5200	17.78	16.78	23.98	22.15	PASS
11N20	ANT1+ ANT2	5200	20.89	19.89	23.98	22.15	PASS
11N20	ANT1	5240	17.56	16.56	23.98	22.15	PASS
11N20	ANT2	5240	17.91	16.91	23.98	22.15	PASS
11N20	ANT1+ ANT2	5240	20.75	19.75	23.98	22.15	PASS
11N20	ANT1	5745	16.76	15.76	30.00	30.00	PASS
11N20	ANT2	5745	18.23	17.23	30.00	30.00	PASS
11N20	ANT1+ ANT2	5745	20.57	19.57	30.00	30.00	PASS

11N20	ANT1	5785	18.09	17.09	30.00	30.00	PASS
11N20	ANT2	5785	17.97	16.97	30.00	30.00	PASS
11N20	ANT1+ ANT2	5785	21.04	20.04	30.00	30.00	PASS
11N20	ANT1	5825	18.21	17.21	30.00	30.00	PASS
11N20	ANT2	5825	19.08	18.08	30.00	30.00	PASS
11N20	ANT1+ ANT2	5825	21.68	20.68	30.00	30.00	PASS
11N40	ANT1	5190	18.18	17.18	23.98	22.15	PASS
11N40	ANT2	5190	17.58	16.58	23.98	22.15	PASS
11N40	ANT1+ ANT2	5190	20.90	19.90	23.98	22.15	PASS
11N40	ANT1	5230	17.87	16.87	23.98	22.15	PASS
11N40	ANT2	5230	17.84	16.84	23.98	22.15	PASS
11N40	ANT1+ ANT2	5230	20.87	19.87	23.98	22.15	PASS
11N40	ANT1	5755	16.74	15.74	30.00	30.00	PASS
11N40	ANT2	5755	19.28	18.28	30.00	30.00	PASS
11N40	ANT1+ ANT2	5755	21.20	20.20	30.00	30.00	PASS
11N40	ANT1	5795	18.43	17.43	30.00	30.00	PASS
11N40	ANT2	5795	19.08	18.08	30.00	30.00	PASS
11N40	ANT1+ ANT2	5795	21.78	20.78	30.00	30.00	PASS
11AC20	ANT1	5180	18.74	17.74	23.98	22.15	PASS
11AC20	ANT2	5180	19.06	18.06	23.98	22.15	PASS
11AC20	ANT1+ ANT2	5180	21.91	20.91	23.98	22.15	PASS
11AC20	ANT1	5200	17.72	16.72	23.98	22.15	PASS
11AC20	ANT2	5200	18.55	17.55	23.98	22.15	PASS
11AC20	ANT1+ ANT2	5200	21.17	20.17	23.98	22.15	PASS
11AC20	ANT1	5240	19.48	18.48	23.98	22.15	PASS
11AC20	ANT2	5240	18.29	17.29	23.98	22.15	PASS
11AC20	ANT1+ ANT2	5240	21.94	20.94	23.98	22.15	PASS
11AC20	ANT1	5745	19.39	18.39	30.00	30.00	PASS
11AC20	ANT2	5745	20.35	19.35	30.00	30.00	PASS
11AC20	ANT1+ ANT2	5745	22.91	21.91	30.00	30.00	PASS
11AC20	ANT1	5785	20.03	19.03	30.00	30.00	PASS
11AC20	ANT2	5785	20.22	19.22	30.00	30.00	PASS
11AC20	ANT1+ ANT2	5785	23.14	22.14	30.00	30.00	PASS
11AC20	ANT1	5825	20.85	19.85	30.00	30.00	PASS
11AC20	ANT2	5825	21.98	20.98	30.00	30.00	PASS
11AC20	ANT1+ ANT2	5825	24.46	23.46	30.00	30.00	PASS
11AC40	ANT1	5190	18.88	19.22	23.98	22.15	PASS
11AC40	ANT2	5190	19.26	19.35	23.98	22.15	PASS
11AC40	ANT1+ ANT2	5190	22.08	22.30	23.98	22.15	PASS
11AC40	ANT1	5230	19.15	19.42	23.98	22.15	PASS
11AC40	ANT2	5230	18.43	18.83	23.98	22.15	PASS
11AC40	ANT1+ ANT2	5230	21.82	22.15	23.98	22.15	PASS
11AC40	ANT1	5755	20.79	19.79	30.00	30.00	PASS
11AC40	ANT2	5755	23.61	22.61	30.00	30.00	PASS
11AC40	ANT1+ ANT2	5755	25.44	24.44	30.00	30.00	PASS
11AC40	ANT1	5795	20.85	19.85	30.00	30.00	PASS
11AC40	ANT2	5795	21.72	20.72	30.00	30.00	PASS
11AC40	ANT1+ ANT2	5795	24.32	23.32	30.00	30.00	PASS
11AC80	ANT1	5210	18.80	17.80	23.98	22.15	PASS
11AC80	ANT2	5210	19.21	18.21	23.98	22.15	PASS
11AC80	ANT1+ ANT2	5210	22.02	21.02	23.98	22.15	PASS

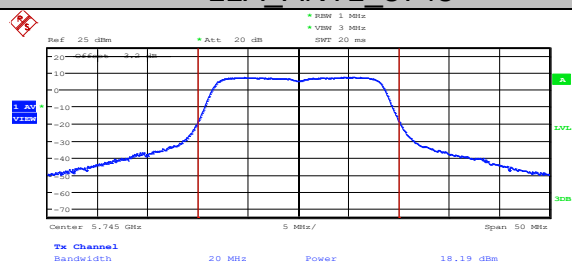
11AC80	ANT1	5775	21.58	20.58	23.98	30.00	PASS
11AC80	ANT2	5775	22.47	21.47	23.98	30.00	PASS
11AC80	ANT1+ ANT2	5775	25.06	24.06	23.98	30.00	PASS

5.5. Original test data





Date: 31.MAY.2018 15:21:45

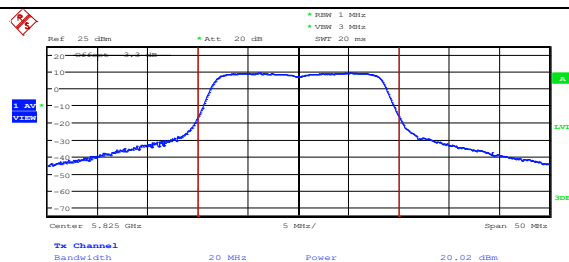
11A ANT1 5745

Date: 31.MAY.2018 15:25:19

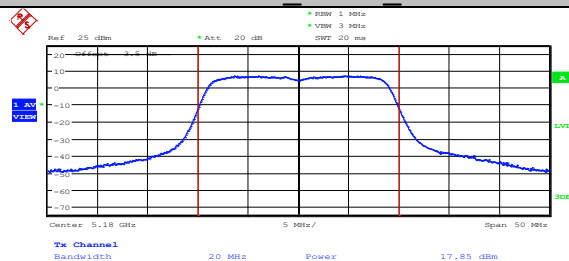
11A ANT1 5785

Date: 31.MAY.2018 15:26:30

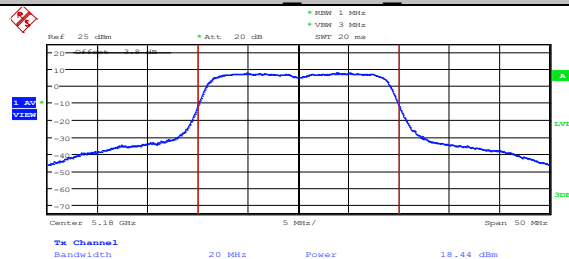
11A ANT1 5825



Date: 31.MAY.2018 15:27:36

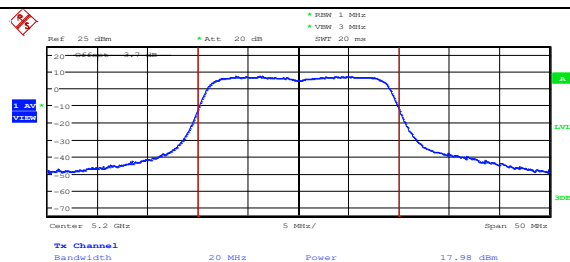
11N20 ANT1 5180

Date: 31.MAY.2018 15:30:10

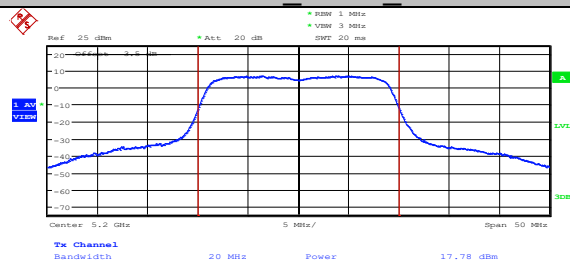
11N20 ANT2 5180

Date: 1.JUN.2018 08:25:25

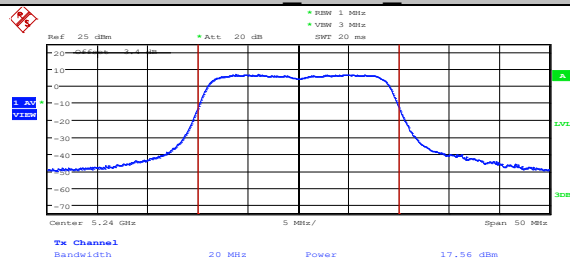
11N20 ANT1 5200



Date: 31.MAY.2018 15:31:34

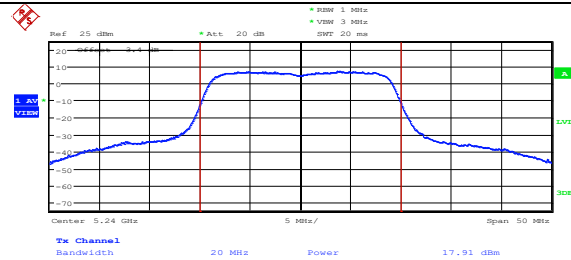
11N20 ANT2 5200

Date: 1.JUN.2018 08:30:06

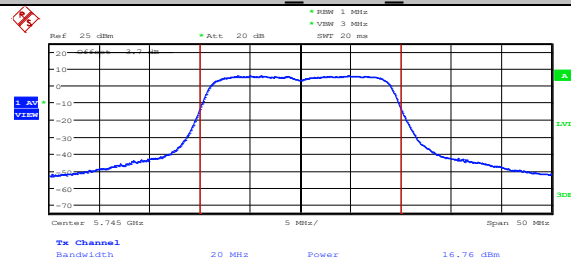
11N20 ANT1 5240

Date: 31.MAY.2018 15:32:58

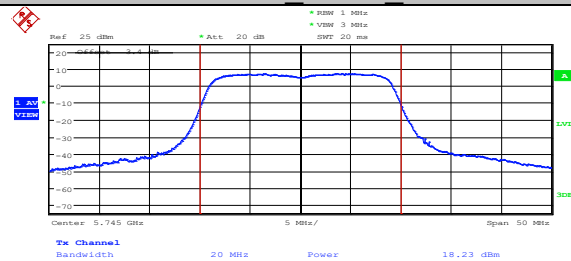
11N20 ANT2 5240



Date: 1.JUN.2018 08:31:15

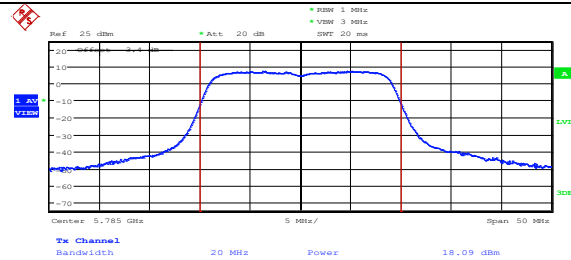
11N20 ANT1 5745

Date: 31.MAY.2018 15:35:42

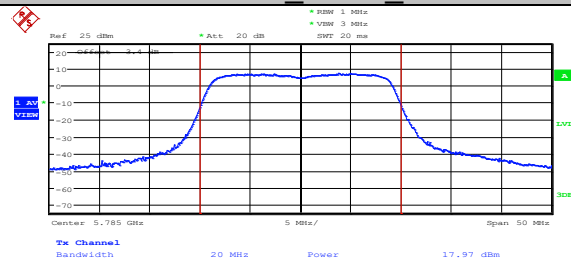
11N20 ANT2 5745

Date: 1.JUN.2018 08:32:31

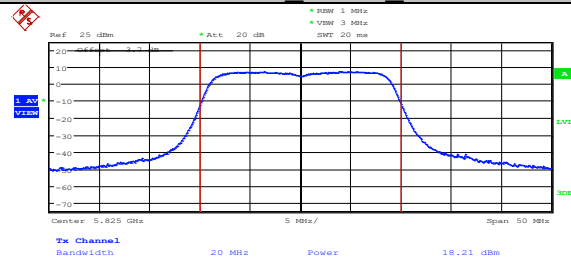
11N20 ANT1 5785



Date: 31.MAY.2018 15:37:31

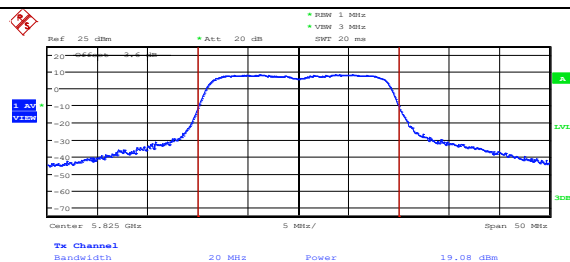
11N20 ANT2 5785

Date: 1.JUN.2018 08:33:40

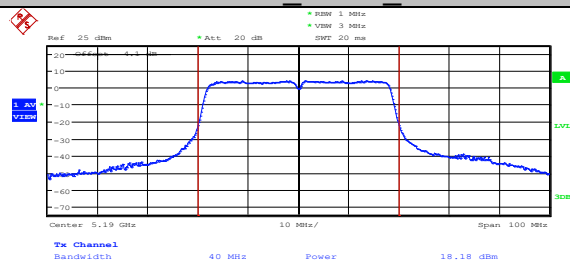
11N20 ANT1 5825

Date: 31.MAY.2018 15:38:47

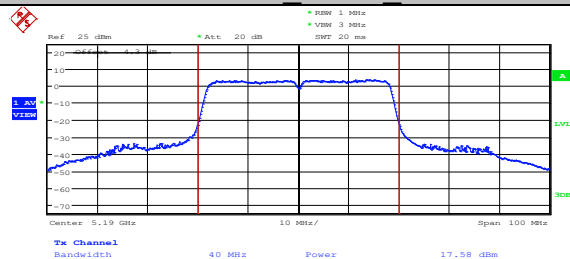
11N20 ANT2 5825



Date: 1.JUN.2018 08:35:43

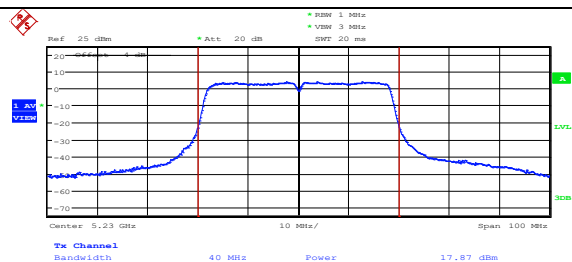
11N40 ANT1 5190

Date: 31.MAY.2018 16:17:48

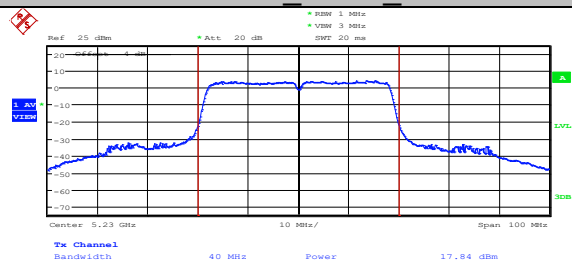
11N40 ANT2 5190

Date: 1.JUN.2018 09:23:42

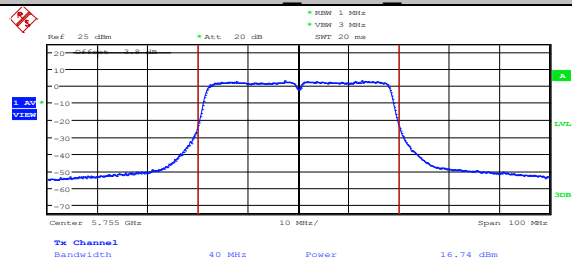
11N40 ANT1 5230



Date: 31.MAY.2018 16:21:30

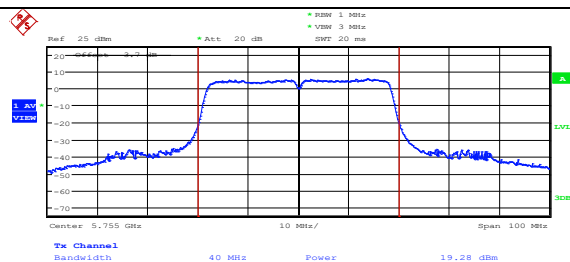
11N40 ANT2 5230

Date: 1.JUN.2018 09:25:44

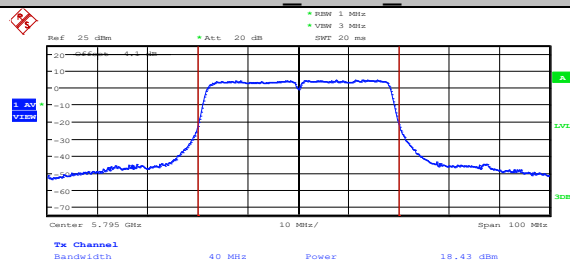
11N40 ANT1 5755

Date: 31.MAY.2018 16:23:28

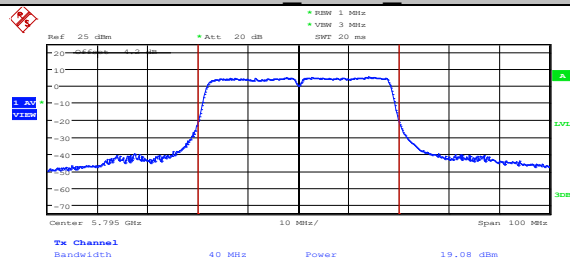
11N40 ANT2 5755



Date: 1.JUN.2018 09:27:03

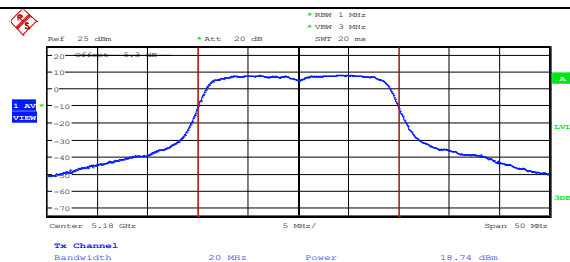
11N40 ANT1 5795

Date: 31.MAY.2018 16:25:02

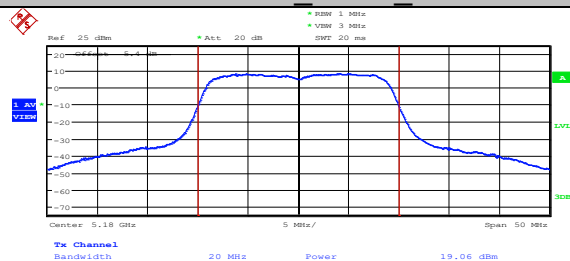
11N40 ANT2 5795

Date: 1.JUN.2018 09:28:23

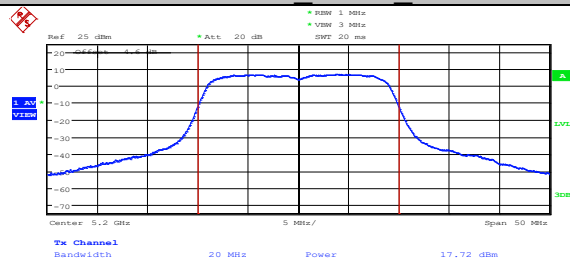
11AC20 ANT1 5180



Date: 31.MAY.2018 15:56:59

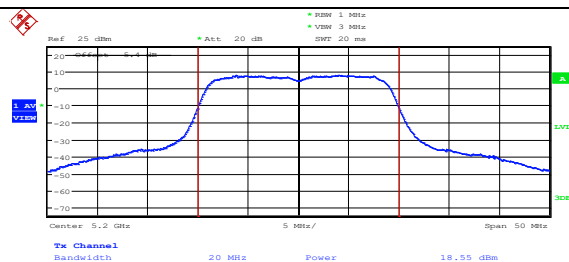
11AC20 ANT2 5180

Date: 1.JUN.2018 08:40:16

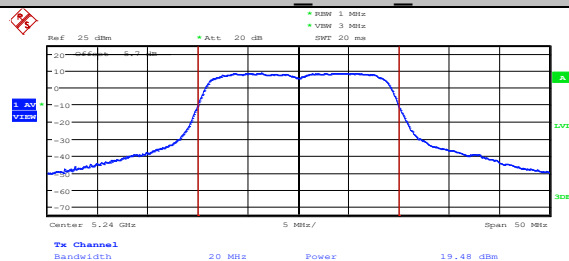
11AC20 ANT1 5200

Date: 31.MAY.2018 16:01:33

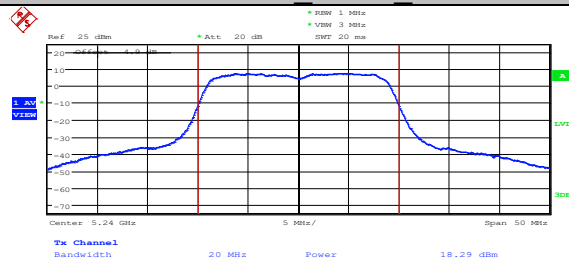
11AC20 ANT2 5200



Date: 1.JUN.2018 08:46:17

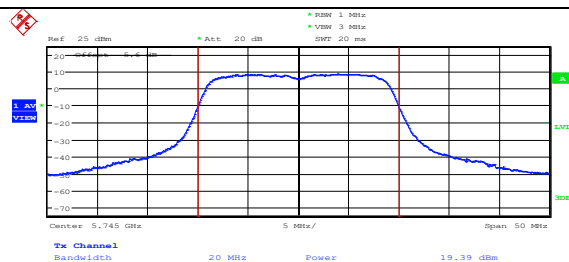
11AC20 ANT1 5240

Date: 31.MAY.2018 16:03:52

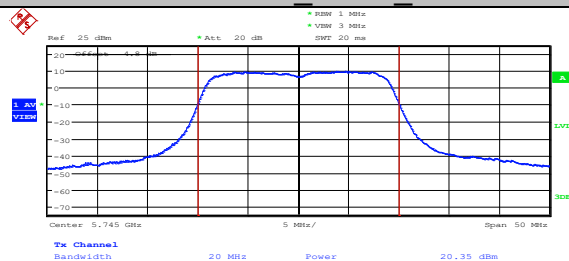
11AC20 ANT2 5240

Date: 1.JUN.2018 09:05:24

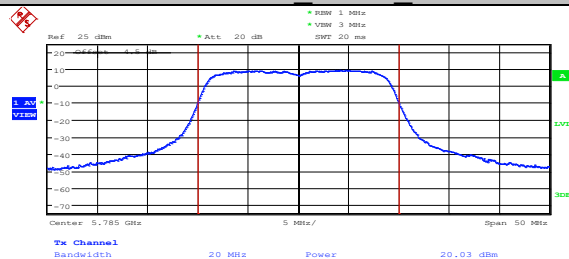
11AC20 ANT1 5745



Date: 31.MAY.2018 16:05:35

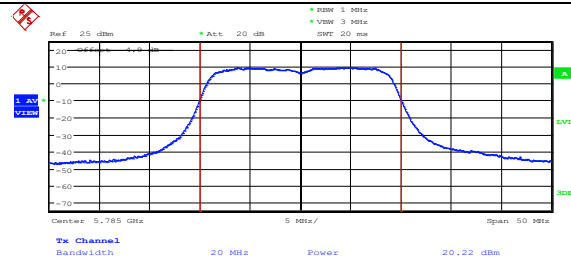
11AC20 ANT2 5745

Date: 1.JUN.2018 09:08:56

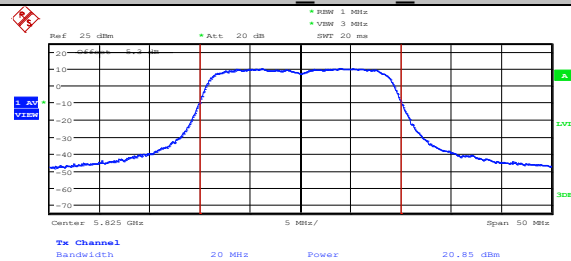
11AC20 ANT1 5785

Date: 31.MAY.2018 16:07:02

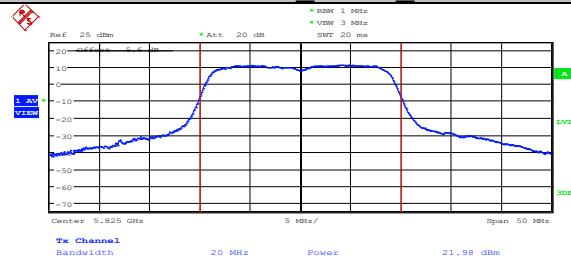
11AC20 ANT2 5785



Date: 1.JUN.2018 09:10:05

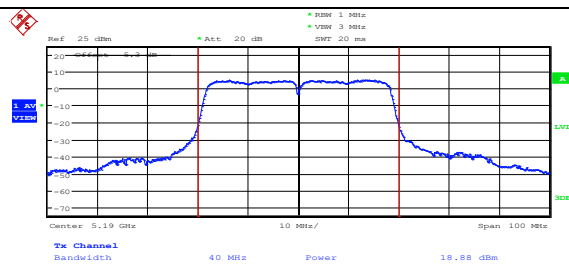
11AC20 ANT1 5825

Date: 31.MAY.2018 16:08:14

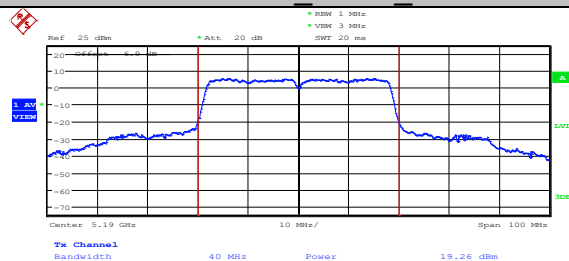
11AC20 ANT2 5825

Date: 1.JUN.2018 09:13:23

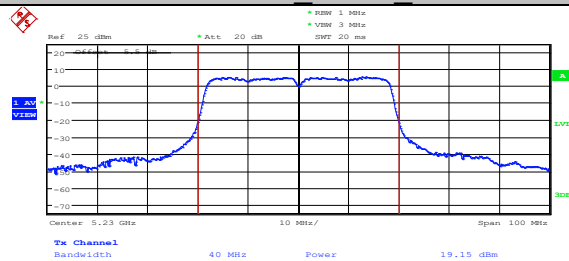
11AC40 ANT1 5190



Date: 7.JUN.2018 13:10:09

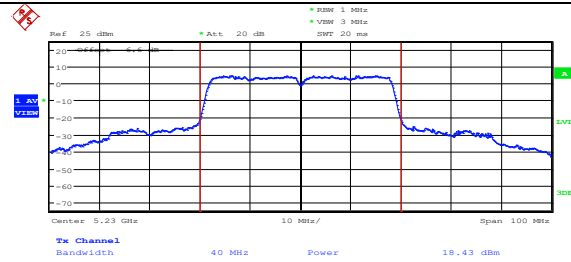
11AC40 ANT2 5190

Date: 7.JUN.2018 13:13:03

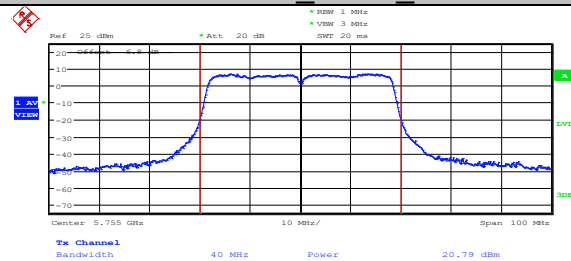
11AC40 ANT1 5230

Date: 7.JUN.2018 13:17:20

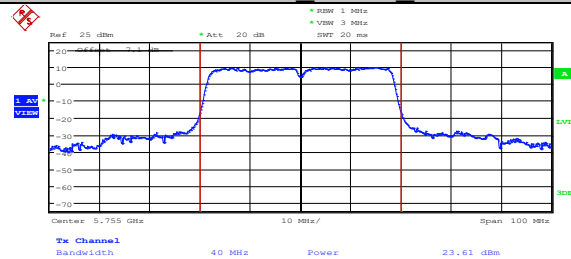
11AC40 ANT2 5230



Date: 7.JUN.2018 13:15:16

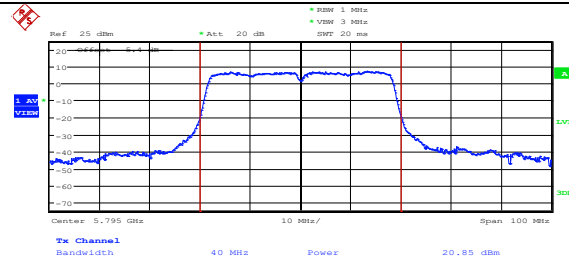
11AC40 ANT1 5755

Date: 31.MAY.2018 16:32:45

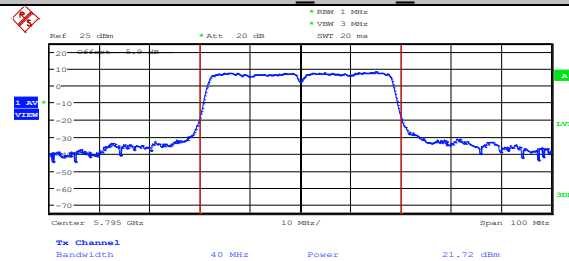
11AC40 ANT2 5755

Date: 1.JUN.2018 09:34:45

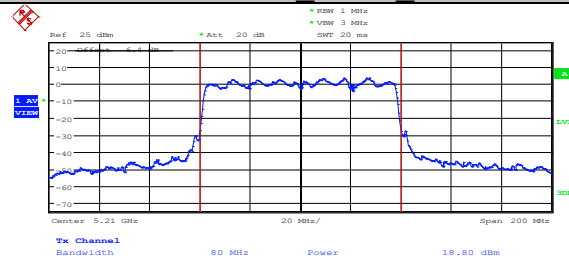
11AC40 ANT1 5795



Date: 31.MAY.2018 16:34:01

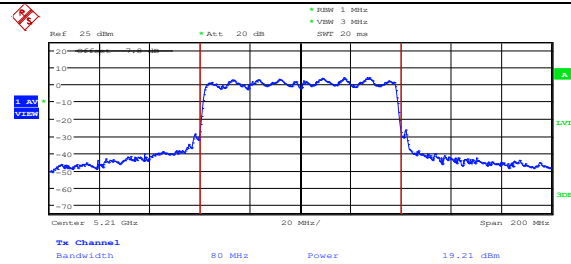
11AC40 ANT2 5795

Date: 1.JUN.2018 09:35:51

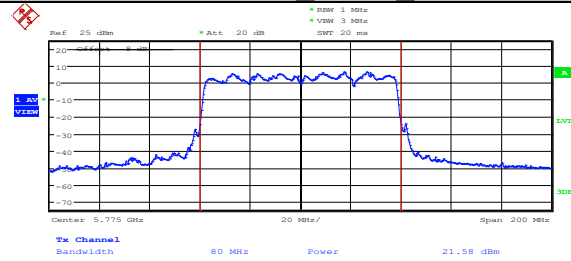
11AC80 ANT1 5210

Date: 7.JUN.2018 13:20:14

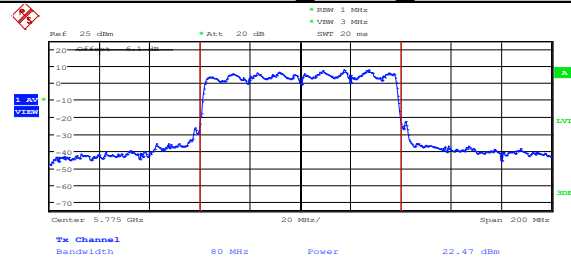
11AC80 ANT2 5210



Date: 7.JUN.2018 15:03:07

11AC80 ANT1 5775

Date: 31.MAY.2018 16:38:33

11AC80 ANT2 5775

Date: 1.JUN.2018 09:40:42

6. Power Spectral Density

6.1. Block diagram of test setup

Same with 4.1

6.2. Limits

FCC Part15, Subpart E		
Test Item	Limit	Frequency Range (MHz)
Power Spectral Density	For FCC: 11dBm/MHz	5150-5250
	For RSS eirp:10dBm/MHz	
	30dBm/500kHz	5725-5850

6.3. Test Procedure

The transmitter output was connected to a spectrum analyzer, use the following settings:
5150MHz~5250MHz

Center Frequency	The centre frequency of the channel under test
Detector	RMS
RBW	1MHz
VBW	$\geq 3 \times \text{RBW}$
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

5725MHz-5850MHz

Center Frequency	The centre frequency of the channel under test
Detector	RMS
RBW	500kHz
VBW	$\geq 3 \times \text{RBW}$
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

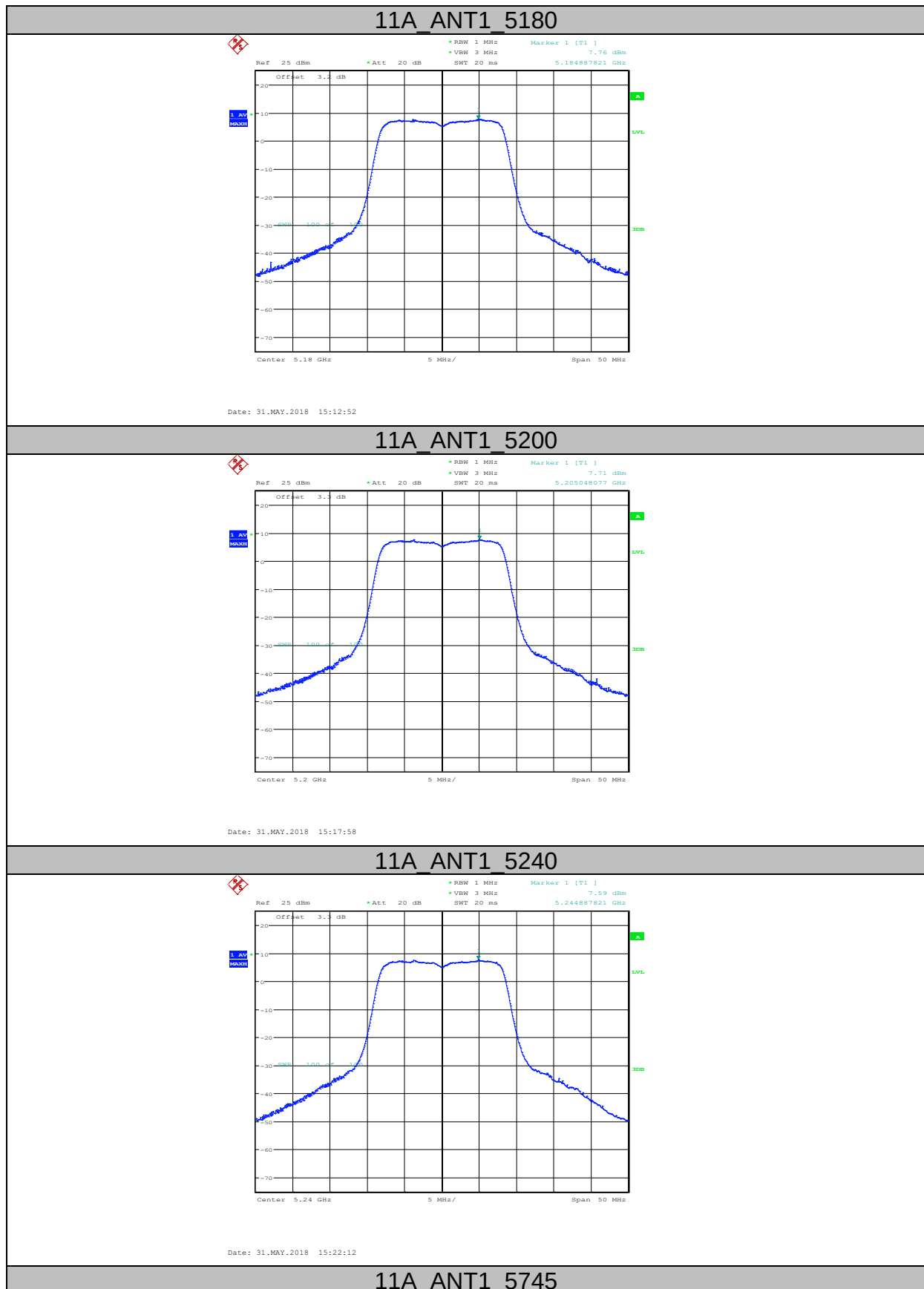
Allow trace to fully stabilize and use the peak marker function to determine the maximum amplitude level within the RBW.

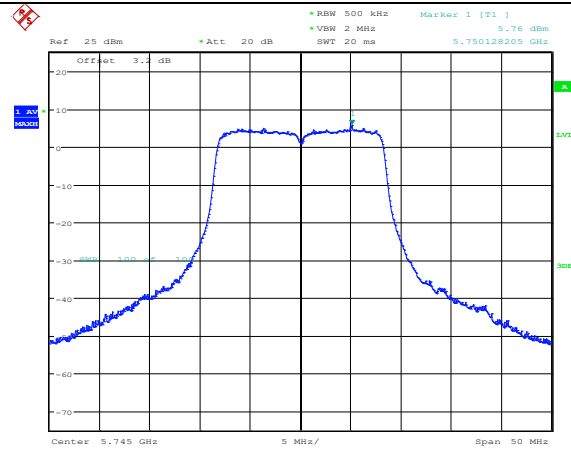
6.4. Test Result

Test Mode	Antenna	Channel	PSD [dBm/MHz]	PSD eirp [dBm/MHz]	FCC Limit [dBm/MHz]	ISED Limit [dBm/MHz]	Verdict
11A	ANT1	5180	7.76	6.76	11.00	10.00	PASS
11A	ANT1	5200	7.71	6.71	11.00	10.00	PASS
11A	ANT1	5240	7.59	6.59	11.00	10.00	PASS
11A	ANT1	5745	5.76	4.76	30.00	30.00	PASS
11A	ANT1	5785	8.17	7.17	30.00	30.00	PASS
11A	ANT1	5825	7.92	6.92	30.00	30.00	PASS
11N20	ANT1	5180	7.09	6.09	11.00	10.00	PASS
11N20	ANT2	5180	7.29	6.29	11.00	10.00	PASS
11N20	ANT1+ANT2	5180	10.20	9.20	11.00	10.00	PASS
11N20	ANT1	5200	7.13	6.13	11.00	10.00	PASS
11N20	ANT2	5200	7.03	6.03	11.00	10.00	PASS
11N20	ANT1+ANT2	5200	10.09	9.09	11.00	10.00	PASS
11N20	ANT1	5240	7.02	6.02	11.00	10.00	PASS
11N20	ANT2	5240	7.43	6.43	11.00	10.00	PASS
11N20	ANT1+ANT2	5240	10.24	9.24	11.00	10.00	PASS
11N20	ANT1	5745	4.16	3.16	30.00	30.00	PASS
11N20	ANT2	5745	5.97	4.97	30.00	30.00	PASS
11N20	ANT1+ANT2	5745	8.17	7.17	30.00	30.00	PASS
11N20	ANT1	5785	5.76	4.76	30.00	30.00	PASS
11N20	ANT2	5785	5.41	4.41	30.00	30.00	PASS
11N20	ANT1+ANT2	5785	8.60	7.60	30.00	30.00	PASS
11N20	ANT1	5825	5.86	4.86	30.00	30.00	PASS
11N20	ANT2	5825	6.80	5.80	30.00	30.00	PASS
11N20	ANT1+ANT2	5825	9.37	8.37	30.00	30.00	PASS
11N40	ANT1	5190	4.19	3.19	11.00	10.00	PASS
11N40	ANT2	5190	3.66	2.66	11.00	10.00	PASS
11N40	ANT1+ANT2	5190	6.94	5.94	11.00	10.00	PASS
11N40	ANT1	5230	4.08	3.08	11.00	10.00	PASS
11N40	ANT2	5230	4.22	3.22	11.00	10.00	PASS
11N40	ANT1+ANT2	5230	7.16	6.16	11.00	10.00	PASS
11N40	ANT1	5755	1.74	0.74	30.00	30.00	PASS
11N40	ANT2	5755	4.07	3.07	30.00	30.00	PASS
11N40	ANT1+ANT2	5755	6.07	5.07	30.00	30.00	PASS
11N40	ANT1	5795	2.53	1.53	30.00	30.00	PASS
11N40	ANT2	5795	3.48	2.48	30.00	30.00	PASS
11N40	ANT1+ANT2	5795	6.04	5.04	30.00	30.00	PASS
11AC20	ANT1	5180	7.36	6.36	11.00	10.00	PASS
11AC20	ANT2	5180	7.79	6.79	11.00	10.00	PASS
11AC20	ANT1+ANT2	5180	10.59	9.59	11.00	10.00	PASS
11AC20	ANT1	5200	7.53	6.53	11.00	10.00	PASS
11AC20	ANT2	5200	7.84	6.84	11.00	10.00	PASS
11AC20	ANT1+ANT2	5200	10.70	9.70	11.00	10.00	PASS
11AC20	ANT1	5240	7.70	6.70	11.00	10.00	PASS
11AC20	ANT2	5240	7.88	6.88	11.00	10.00	PASS
11AC20	ANT1+ANT2	5240	10.80	9.80	11.00	10.00	PASS
11AC20	ANT1	5745	6.84	5.84	30.00	30.00	PASS
11AC20	ANT2	5745	8.51	7.51	30.00	30.00	PASS
11AC20	ANT1+ANT2	5745	10.77	9.77	30.00	30.00	PASS

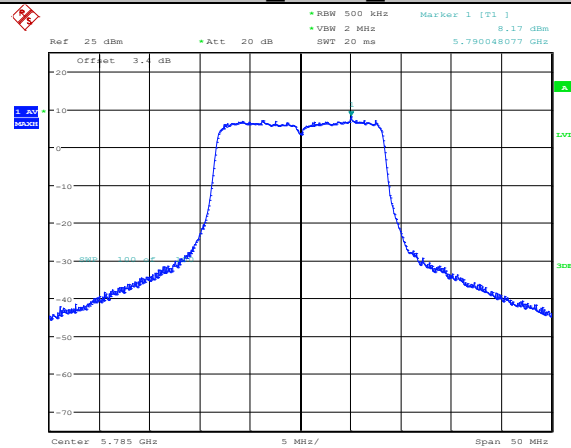
11AC20	ANT1	5785	7.93	6.93	30.00	30.00	PASS
11AC20	ANT2	5785	7.71	6.71	30.00	30.00	PASS
11AC20	ANT1+ANT2	5785	10.83	9.83	30.00	30.00	PASS
11AC20	ANT1	5825	8.44	7.44	30.00	30.00	PASS
11AC20	ANT2	5825	8.93	7.93	30.00	30.00	PASS
11AC20	ANT1+ANT2	5825	11.70	10.70	30.00	30.00	PASS
11AC40	ANT1	5190	5.74	4.74	11.00	10.00	PASS
11AC40	ANT2	5190	7.11	6.11	11.00	10.00	PASS
11AC40	ANT1+ANT2	5190	9.49	8.49	11.00	10.00	PASS
11AC40	ANT1	5230	7.68	6.68	11.00	10.00	PASS
11AC40	ANT2	5230	5.90	4.90	11.00	10.00	PASS
11AC40	ANT1+ANT2	5230	9.89	8.89	11.00	10.00	PASS
11AC40	ANT1	5755	4.41	3.41	30.00	30.00	PASS
11AC40	ANT2	5755	7.42	6.42	30.00	30.00	PASS
11AC40	ANT1+ANT2	5755	9.18	8.18	30.00	30.00	PASS
11AC40	ANT1	5795	6.33	5.33	30.00	30.00	PASS
11AC40	ANT2	5795	6.94	5.94	30.00	30.00	PASS
11AC40	ANT1+ANT2	5795	9.66	8.66	30.00	30.00	PASS
11AC80	ANT1	5210	5.55	4.55	11.00	10.00	PASS
11AC80	ANT2	5210	6.76	5.76	11.00	10.00	PASS
11AC80	ANT1+ANT2	5210	9.21	8.21	11.00	10.00	PASS
11AC80	ANT1	5775	4.01	3.01	30.00	30.00	PASS
11AC80	ANT2	5775	6.31	5.31	30.00	30.00	PASS
11AC80	ANT1+ANT2	5775	8.32	7.32	30.00	30.00	PASS

6.5. Original test data

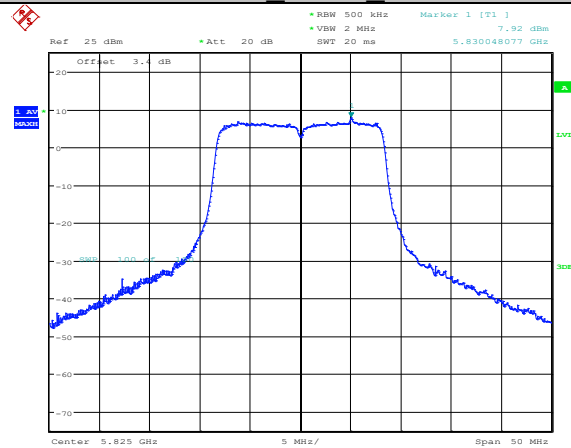




Date: 31.MAY.2018 15:25:46

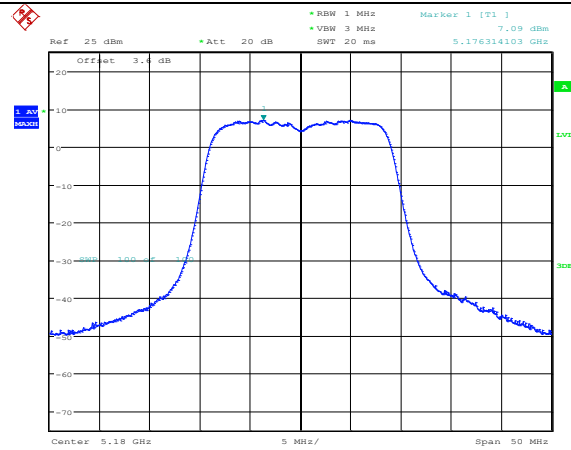
11A ANT1 5785

Date: 31.MAY.2018 15:26:57

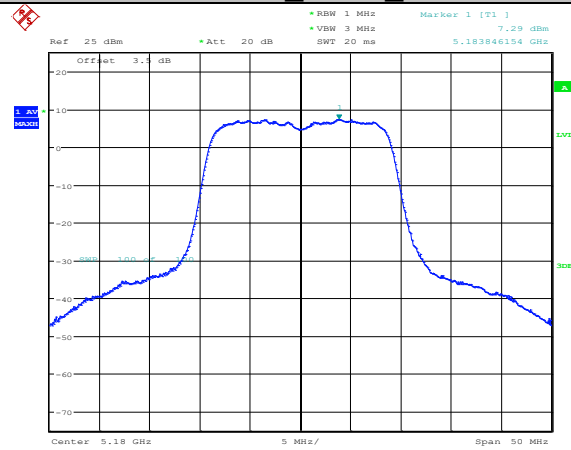
11A ANT1 5825

Date: 31.MAY.2018 15:28:03

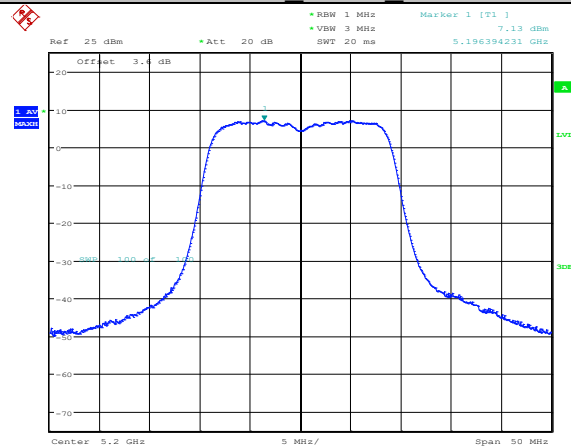
11N20 ANT1 5180



Date: 31.MAY.2018 15:30:37

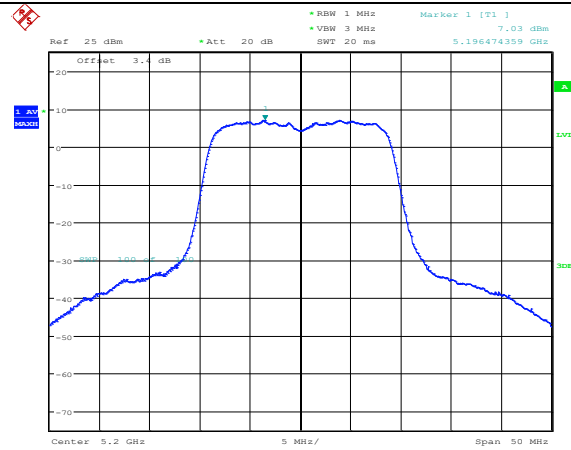
11N20 ANT2 5180

Date: 1.JUN.2018 08:25:52

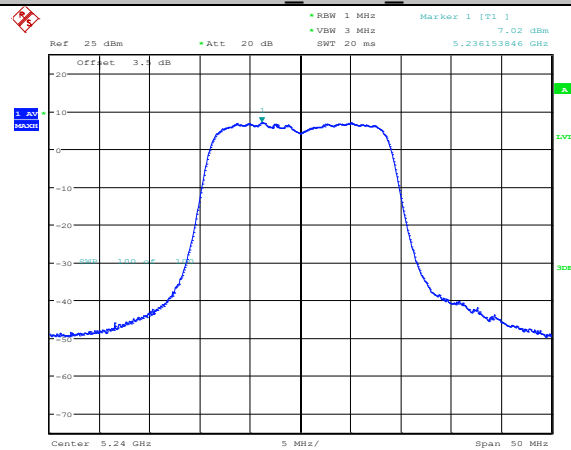
11N20 ANT1 5200

Date: 31.MAY.2018 15:32:01

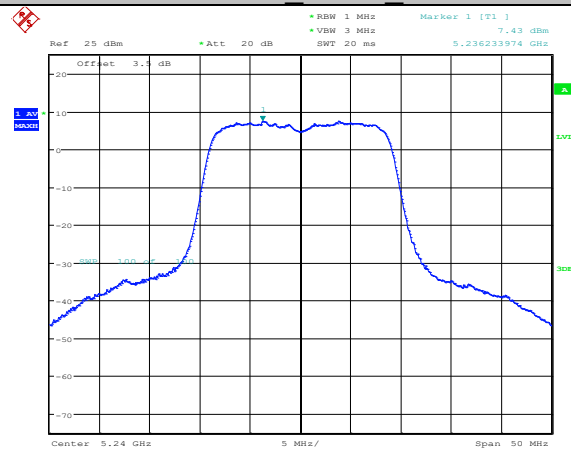
11N20 ANT2 5200



Date: 1.JUN.2018 08:30:32

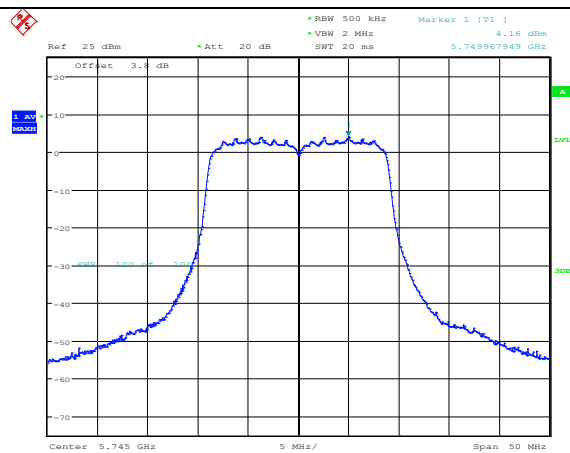
11N20 ANT1 5240

Date: 31.MAY.2018 15:33:25

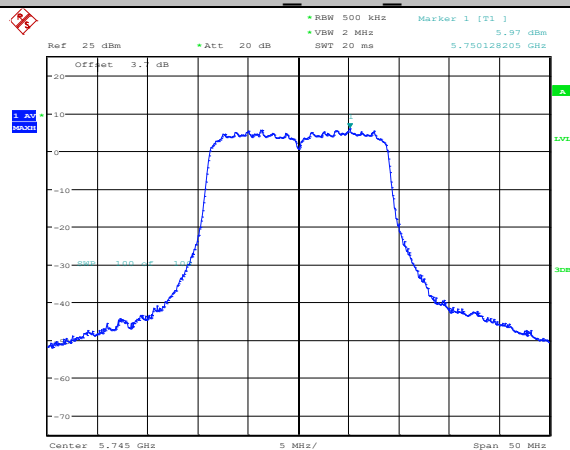
11N20 ANT2 5240

Date: 1.JUN.2018 08:31:41

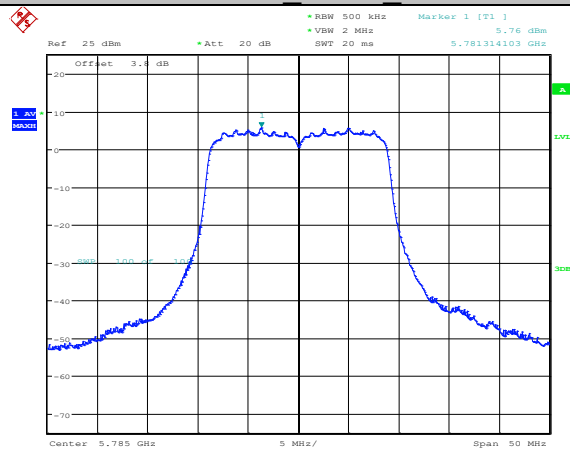
11N20 ANT1 5745



Date: 31.MAY.2018 15:36:09

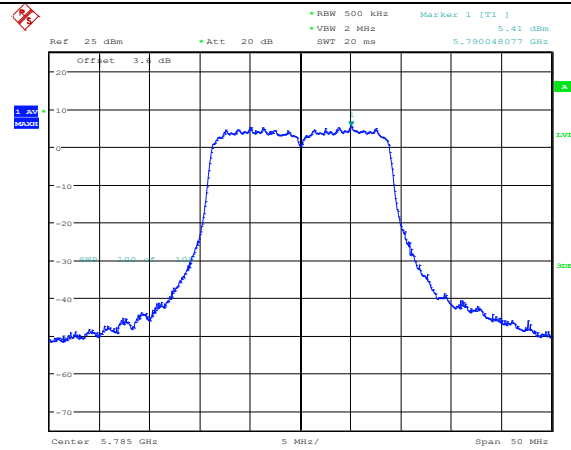
11N20 ANT2 5745

Date: 1.JUN.2018 08:32:58

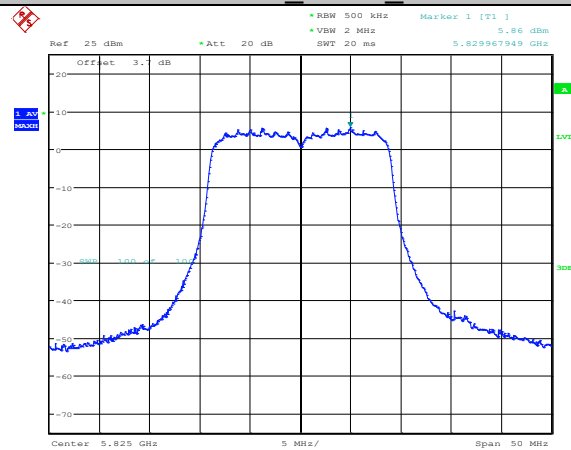
11N20 ANT1 5785

Date: 31.MAY.2018 15:37:58

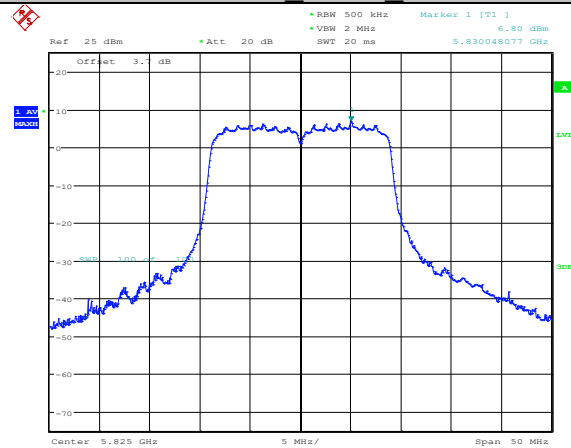
11N20 ANT2 5785



Date: 1.JUN.2018 08:34:07

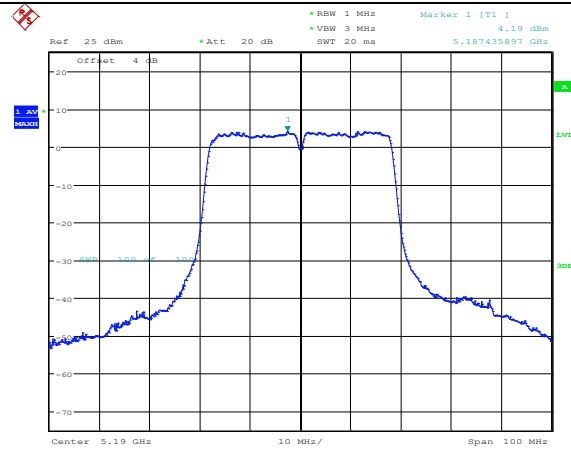
11N20 ANT1 5825

Date: 31.MAY.2018 15:39:14

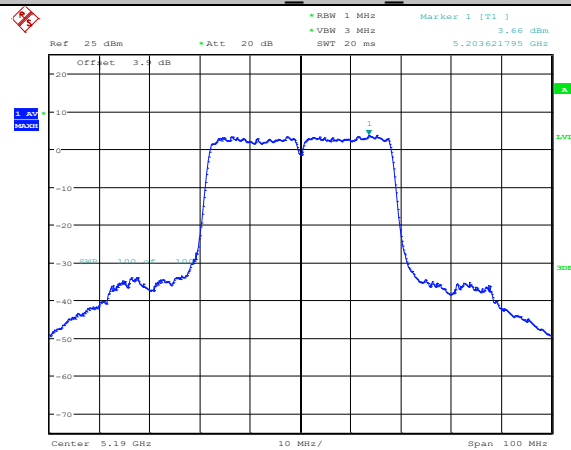
11N20 ANT2 5825

Date: 1.JUN.2018 08:36:09

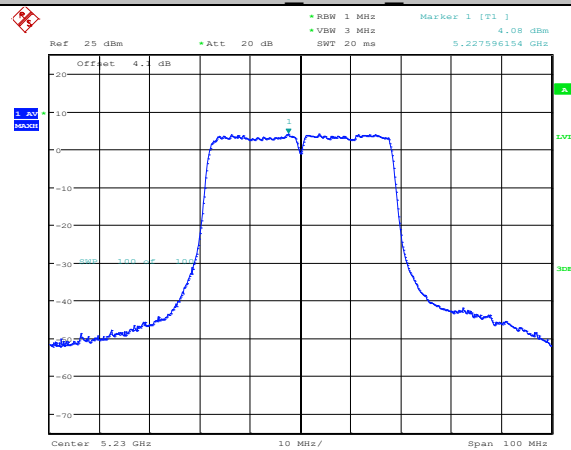
11N40 ANT1 5190



Date: 31.MAY.2018 16:18:15

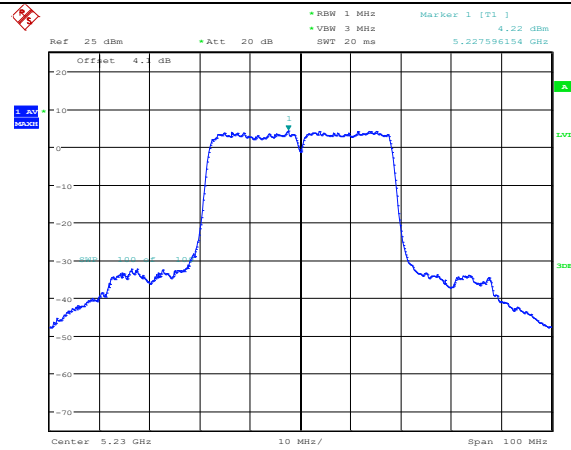
11N40 ANT2 5190

Date: 1.JUN.2018 09:24:09

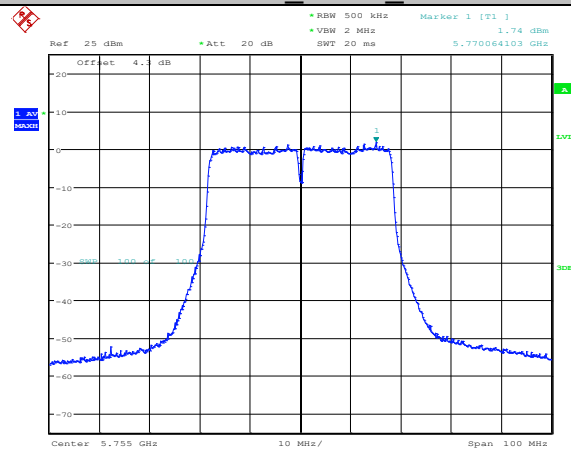
11N40 ANT1 5230

Date: 31.MAY.2018 16:21:57

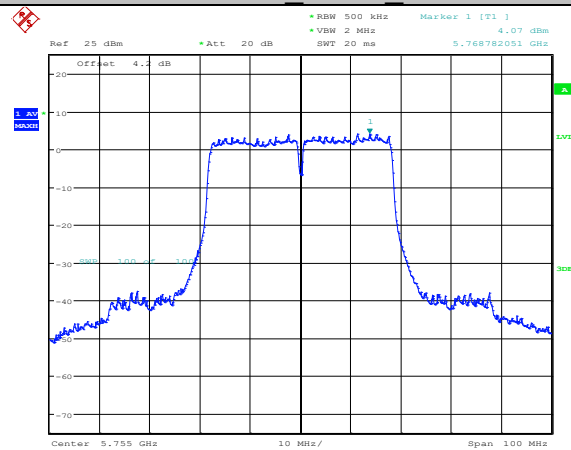
11N40 ANT2 5230



Date: 1.JUN.2018 09:26:10

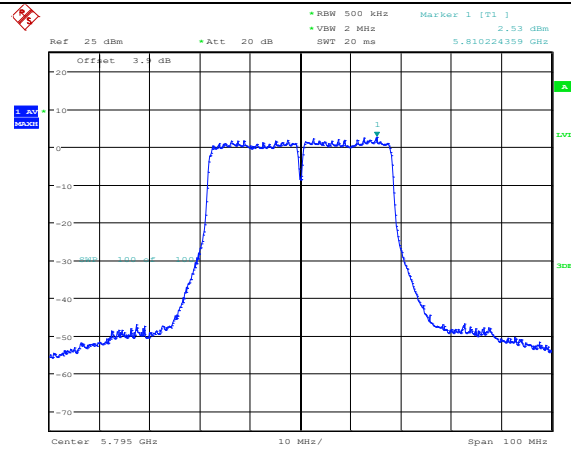
11N40 ANT1 5755

Date: 31.MAY.2018 16:23:55

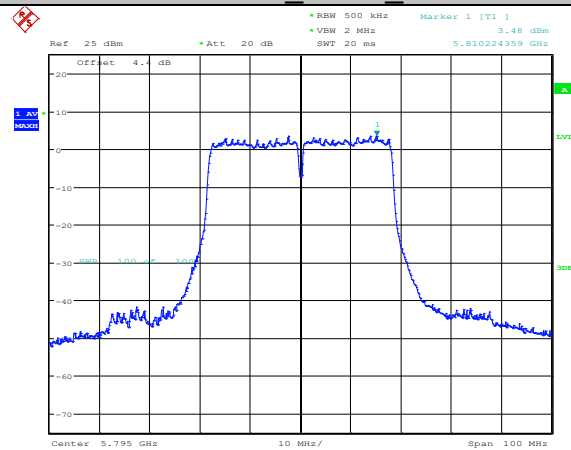
11N40 ANT2 5755

Date: 1.JUN.2018 09:27:30

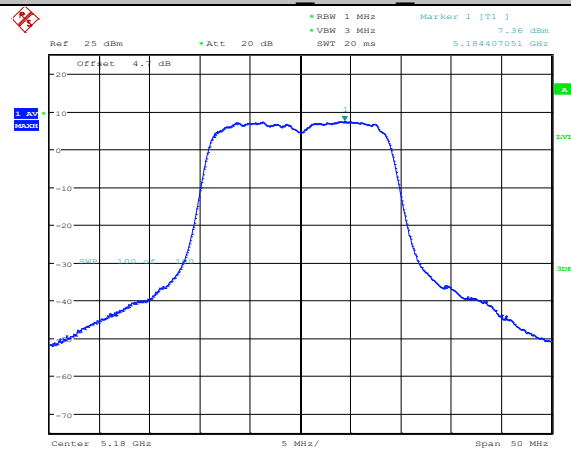
11N40 ANT1 5795



Date: 31.MAY.2018 16:25:29

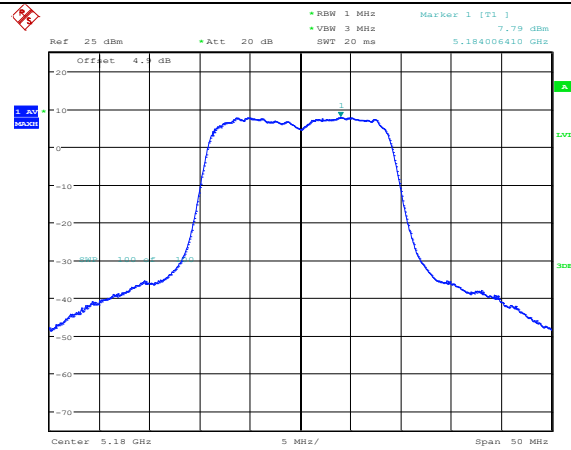
11N40 ANT2 5795

Date: 1.JUN.2018 09:28:50

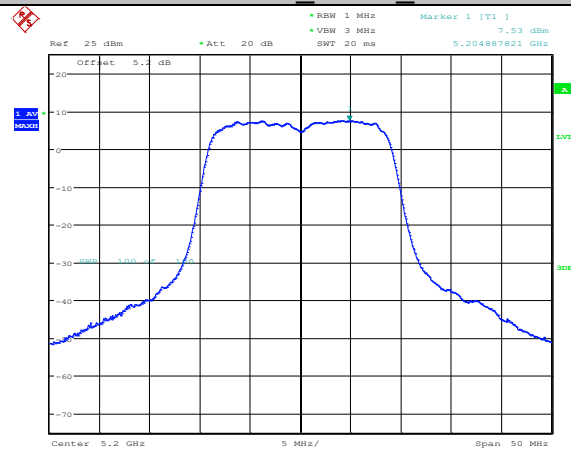
11AC20 ANT1 5180

Date: 31.MAY.2018 15:57:26

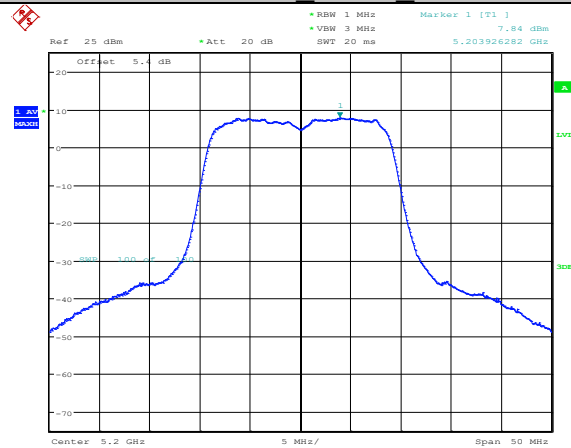
11AC20 ANT2 5180



Date: 1.JUN.2018 08:40:43

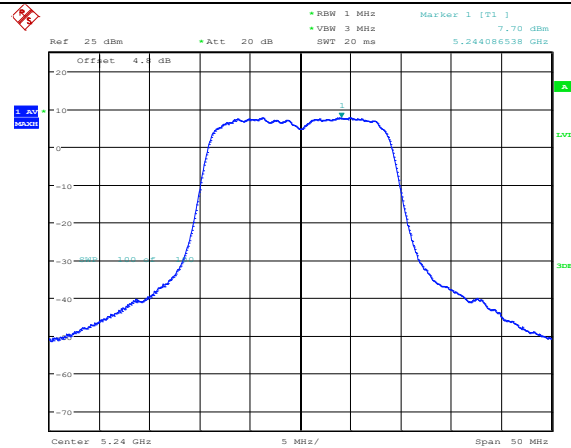
11AC20 ANT1 5200

Date: 31.MAY.2018 16:02:00

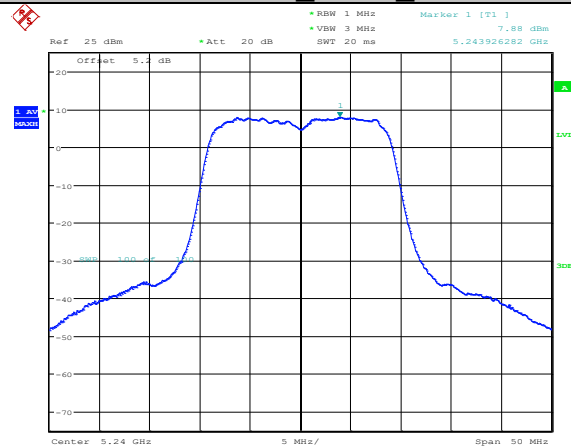
11AC20 ANT2 5200

Date: 1.JUN.2018 08:46:44

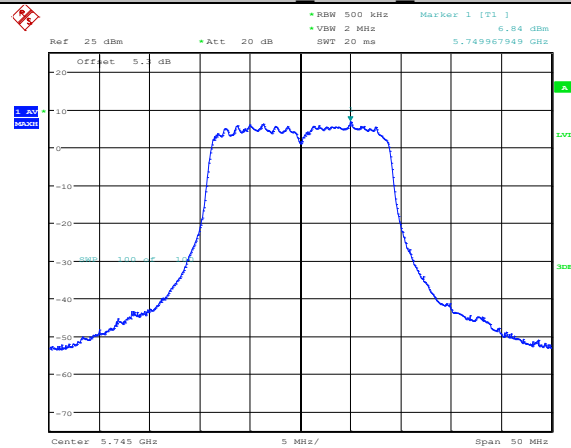
11AC20 ANT1 5240



Date: 31.MAY.2018 16:04:19

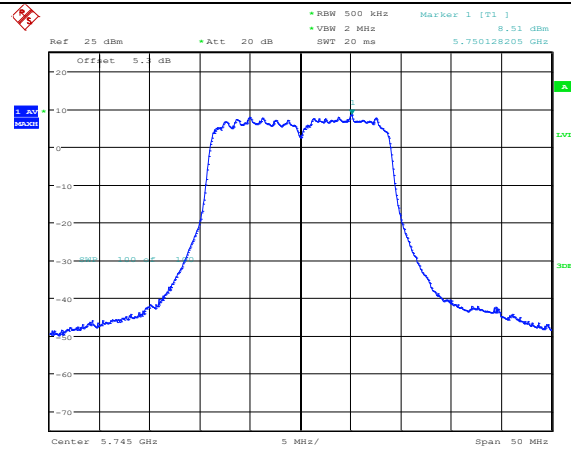
11AC20 ANT2 5240

Date: 1.JUN.2018 09:05:50

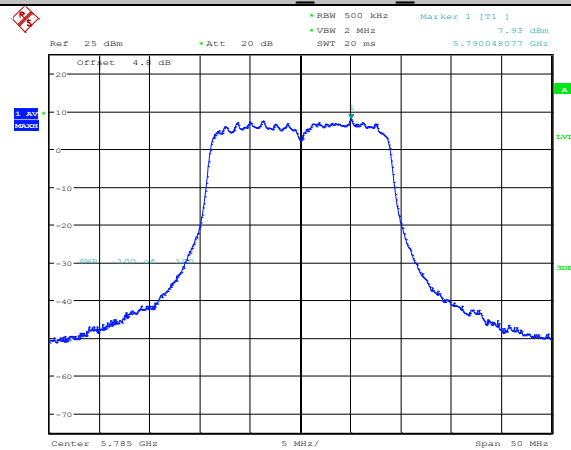
11AC20 ANT1 5745

Date: 31.MAY.2018 16:06:02

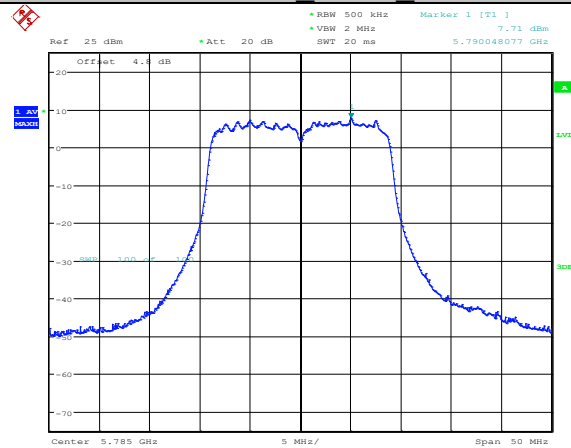
11AC20 ANT2 5745



Date: 1.JUN.2018 09:09:22

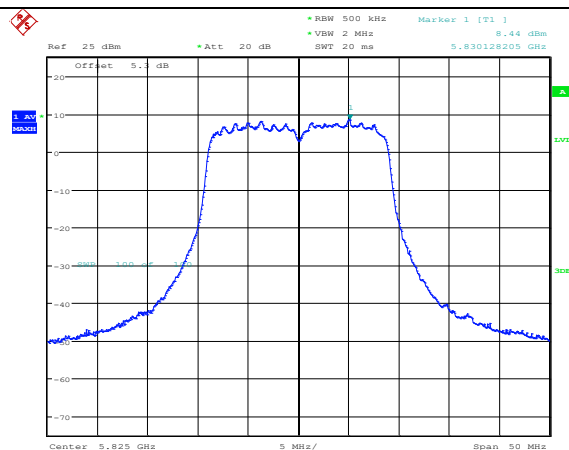
11AC20 ANT1 5785

Date: 31.MAY.2018 16:07:29

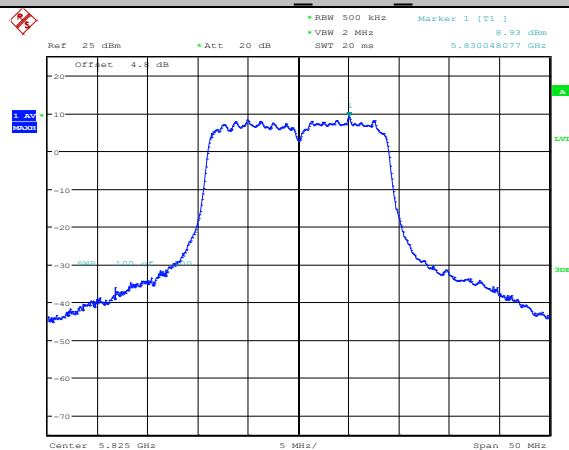
11AC20 ANT2 5785

Date: 1.JUN.2018 09:10:32

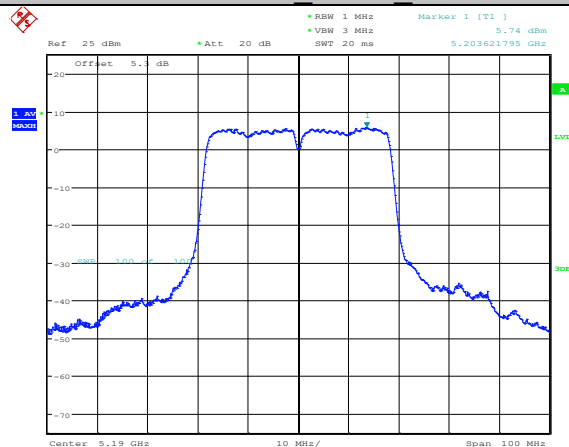
11AC20 ANT1 5825



Date: 31.MAY.2018 16:08:41

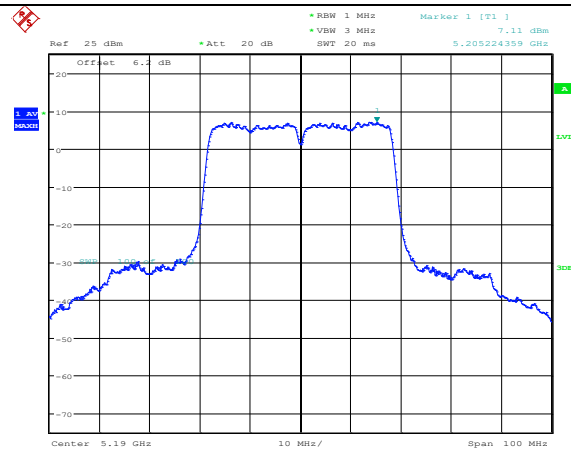
11AC20 ANT2 5825

Date: 1.JUN.2018 09:13:50

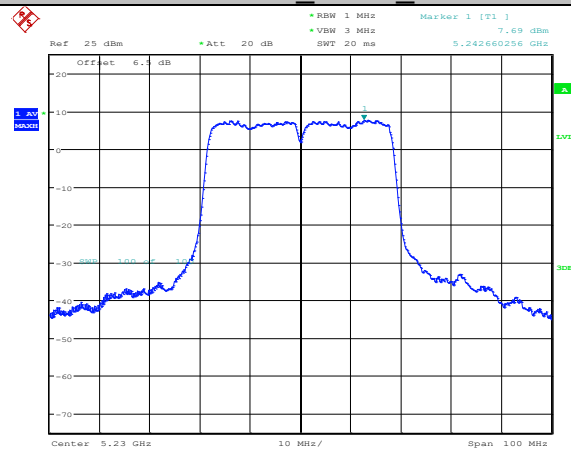
11AC40 ANT1 5190

Date: 31.MAY.2018 16:30:26

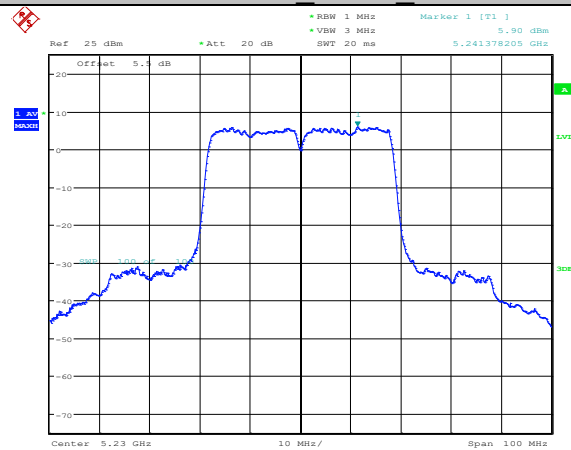
11AC40 ANT2 5190



Date: 1.JUN.2018 09:30:26

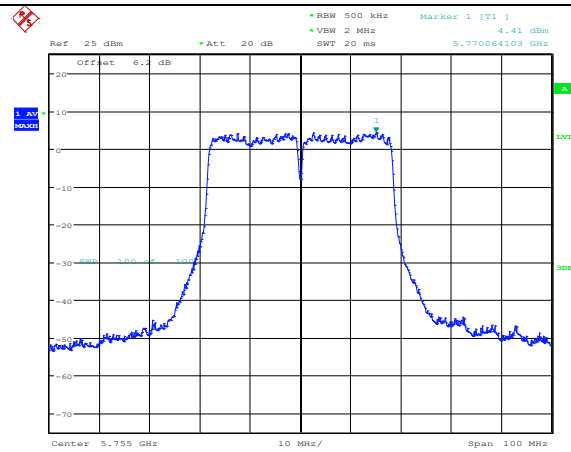
11AC40 ANT1 5230

Date: 31.MAY.2018 16:31:52

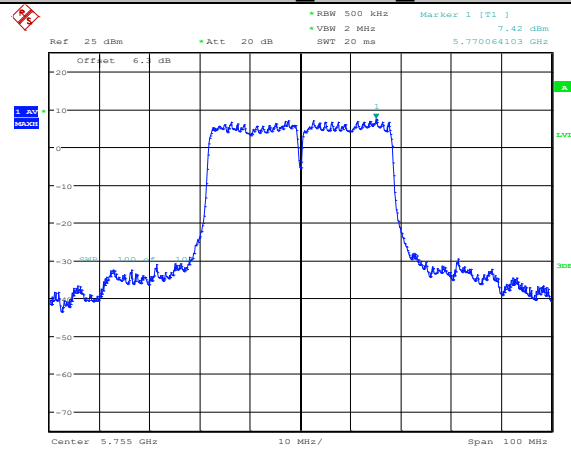
11AC40 ANT2 5230

Date: 1.JUN.2018 09:33:38

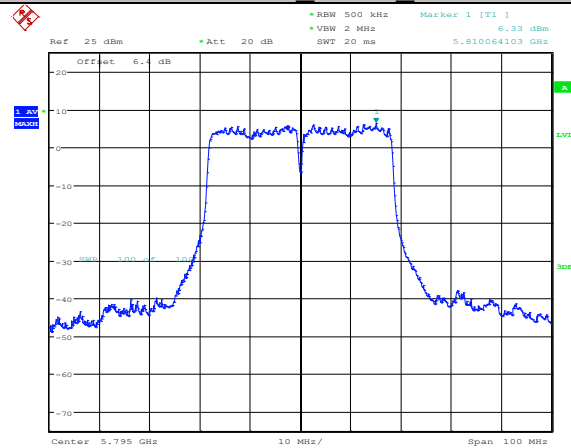
11AC40 ANT1 5755



Date: 31.MAY.2018 16:33:12

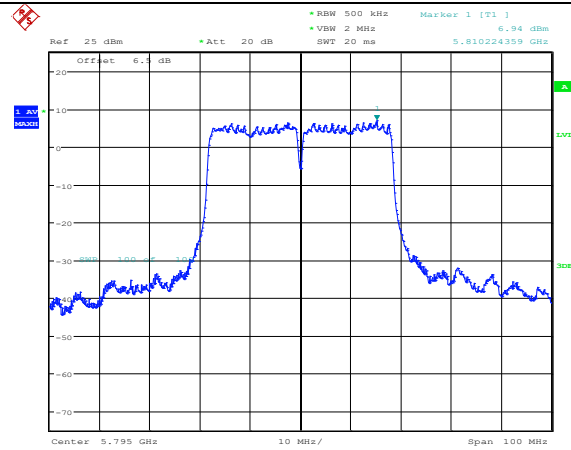
11AC40 ANT2 5755

Date: 1.JUN.2018 09:35:11

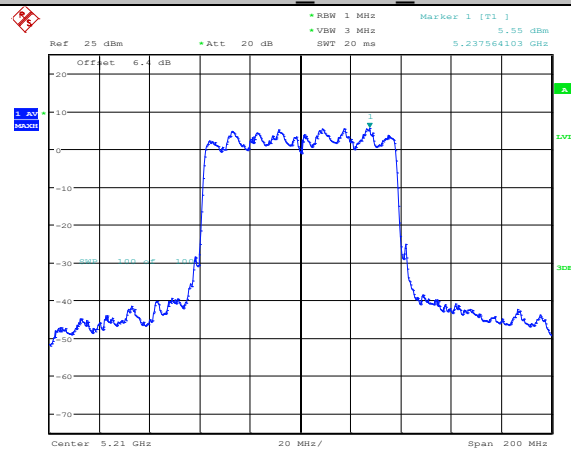
11AC40 ANT1 5795

Date: 31.MAY.2018 16:34:28

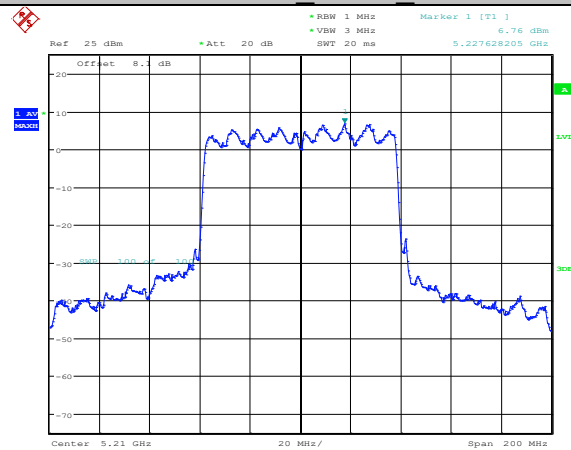
11AC40 ANT2 5795



Date: 1.JUN.2018 09:36:18

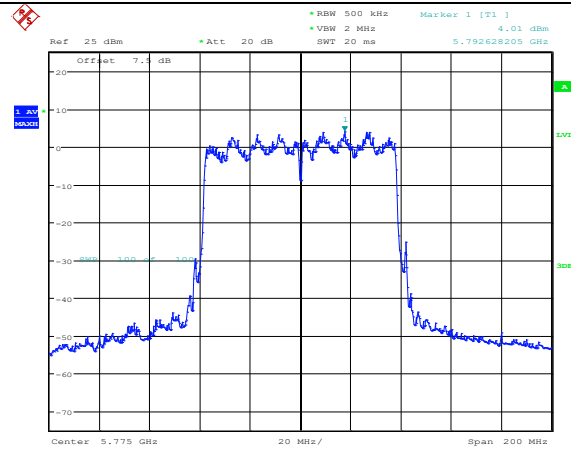
11AC80 ANT1 5210

Date: 31.MAY.2018 16:37:48

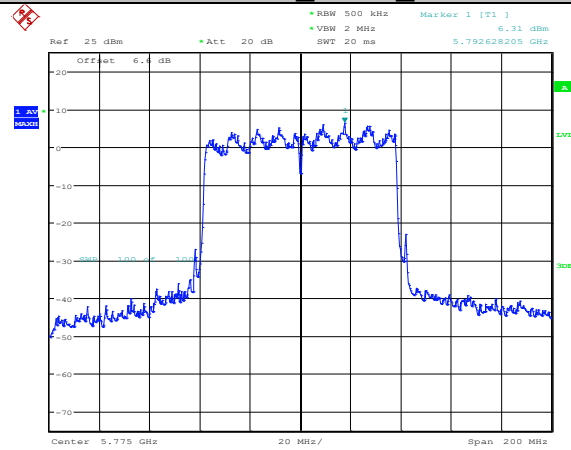
11AC80 ANT2 5210

Date: 1.JUN.2018 09:39:56

11AC80 ANT1 5775



Date: 31.MAY.2018 16:39:00

11AC80 ANT2 5775

Date: 1.JUN.2018 09:41:08

7. Frequency Stability Measurement

7.1. Limit of Frequency Stability

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

7.2. Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

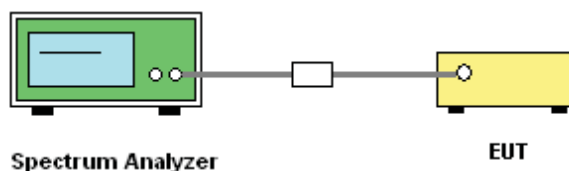
7.3. Test Procedures

(1) To ensure emission at the band edge is maintained within the authorized band, those values shall be measured by radiation emissions at upper and lower frequency points, and finally compensated by frequency deviation as procedures below.

(2) The EUT was operated at the maximum output power, and connected to the spectrum analyzer, which is set to maximum hold function and peak detector. The peak value of the power envelope was measured and noted. The upper and lower frequency points were respectively measured relatively 10dB lower than the measured peak value.

(3) The frequency deviation was calculated by adding the upper frequency point and the lower frequency point divided by two. Those detailed values of frequency deviation are provided in table below.

7.4. Test Setup



7.5. Test Result

Voltage vs. Frequency Stability								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Signal carrier	ANT1	5180	LV	NT	33500	6.467181	20	PASS
Signal carrier	ANT1	5180	HV	NT	35200	6.795367	20	PASS
Signal carrier	ANT1	5180	NV	NT	29700	5.733591	20	PASS
Signal carrier	ANT2	5180	NV	NT	22400	4.324324	20	PASS
Signal carrier	ANT2	5180	HV	NT	24000	4.633205	20	PASS
Signal carrier	ANT2	5180	LV	NT	23300	4.498069	20	PASS
Signal carrier	ANT1	5190	NV	NT	28900	5.568401	20	PASS
Signal carrier	ANT1	5190	HV	NT	31200	6.011561	20	PASS
Signal carrier	ANT1	5190	LV	NT	30200	5.818882	20	PASS
Signal carrier	ANT2	5190	HV	NT	35800	6.897881	20	PASS
Signal carrier	ANT2	5190	NV	NT	37700	7.263969	20	PASS
Signal carrier	ANT2	5190	LV	NT	35900	6.917148	20	PASS

Signal carrier	ANT1	5200	HV	NT	34200	6.576923	20	PASS
Signal carrier	ANT1	5200	NV	NT	29800	5.730769	20	PASS
Signal carrier	ANT1	5200	LV	NT	32300	6.211538	20	PASS
Signal carrier	ANT2	5200	HV	NT	25600	4.923077	20	PASS
Signal carrier	ANT2	5200	LV	NT	24800	4.769231	20	PASS
Signal carrier	ANT2	5200	NV	NT	25300	4.865385	20	PASS
Signal carrier	ANT1	5210	HV	NT	30100	5.777351	20	PASS
Signal carrier	ANT1	5210	NV	NT	24600	4.721689	20	PASS
Signal carrier	ANT1	5210	LV	NT	28100	5.393474	20	PASS
Signal carrier	ANT2	5210	NV	NT	30700	5.892514	20	PASS
Signal carrier	ANT2	5210	LV	NT	31100	5.96929	20	PASS
Signal carrier	ANT2	5210	HV	NT	31400	6.026871	20	PASS
Signal carrier	ANT1	5230	HV	NT	28200	5.391969	20	PASS
Signal carrier	ANT1	5230	NV	NT	19300	3.690249	20	PASS
Signal carrier	ANT1	5230	LV	NT	25300	4.837476	20	PASS
Signal carrier	ANT2	5230	HV	NT	31400	6.003824	20	PASS
Signal carrier	ANT2	5230	LV	NT	29500	5.640535	20	PASS
Signal carrier	ANT2	5230	NV	NT	30200	5.774379	20	PASS
Signal carrier	ANT1	5240	NV	NT	30200	5.763359	20	PASS
Signal carrier	ANT1	5240	HV	NT	36000	6.870229	20	PASS
Signal carrier	ANT1	5240	LV	NT	33800	6.450382	20	PASS
Signal carrier	ANT2	5240	NV	NT	21800	4.160305	20	PASS
Signal carrier	ANT2	5240	LV	NT	21900	4.179389	20	PASS
Signal carrier	ANT2	5240	HV	NT	24300	4.637405	20	PASS
Signal carrier	ANT1	5745	HV	NT	33600	5.848564	20	PASS
Signal carrier	ANT1	5745	LV	NT	30300	5.274151	20	PASS
Signal carrier	ANT1	5745	NV	NT	23600	4.10792	20	PASS
Signal carrier	ANT2	5745	HV	NT	34700	6.040035	20	PASS
Signal carrier	ANT2	5745	NV	NT	30800	5.361184	20	PASS
Signal carrier	ANT2	5745	LV	NT	31600	5.500435	20	PASS
Signal carrier	ANT1	5755	LV	NT	31500	5.473501	20	PASS
Signal carrier	ANT1	5755	NV	NT	27200	4.726325	20	PASS
Signal carrier	ANT1	5755	HV	NT	33800	5.873154	20	PASS
Signal carrier	ANT2	5755	LV	NT	26300	4.569939	20	PASS
Signal carrier	ANT2	5755	HV	NT	29900	5.195482	20	PASS
Signal carrier	ANT2	5755	NV	NT	22900	3.979149	20	PASS
Signal carrier	ANT1	5775	HV	NT	35300	6.112554	20	PASS
Signal carrier	ANT1	5775	NV	NT	29000	5.021645	20	PASS
Signal carrier	ANT1	5775	LV	NT	33200	5.748918	20	PASS
Signal carrier	ANT2	5775	HV	NT	36200	6.268398	20	PASS
Signal carrier	ANT2	5775	LV	NT	33000	5.714286	20	PASS
Signal carrier	ANT2	5775	NV	NT	31400	5.437229	20	PASS
Signal carrier	ANT1	5785	LV	NT	34300	5.929127	20	PASS
Signal carrier	ANT1	5785	HV	NT	36900	6.378565	20	PASS
Signal carrier	ANT1	5785	NV	NT	28600	4.94382	20	PASS
Signal carrier	ANT2	5785	LV	NT	31100	5.375972	20	PASS
Signal carrier	ANT2	5785	HV	NT	34600	5.980985	20	PASS
Signal carrier	ANT2	5785	NV	NT	29800	5.151253	20	PASS
Signal carrier	ANT1	5795	NV	NT	17200	2.968076	20	PASS
Signal carrier	ANT1	5795	LV	NT	24700	4.262295	20	PASS
Signal carrier	ANT1	5795	HV	NT	28600	4.935289	20	PASS

Signal carrier	ANT2	5795	LV	NT	32300	5.57377	20	PASS
Signal carrier	ANT2	5795	HV	NT	34900	6.022433	20	PASS
Signal carrier	ANT2	5795	NV	NT	29300	5.056083	20	PASS
Signal carrier	ANT1	5825	HV	NT	37100	6.369099	20	PASS
Signal carrier	ANT1	5825	LV	NT	33100	5.682403	20	PASS
Signal carrier	ANT1	5825	NV	NT	26200	4.497854	20	PASS
Signal carrier	ANT2	5825	HV	NT	37600	6.454936	20	PASS
Signal carrier	ANT2	5825	LV	NT	33000	5.665236	20	PASS
Signal carrier	ANT2	5825	NV	NT	31700	5.44206	20	PASS

Temperature vs. Frequency Stability								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Signal carrier	ANT1	5180	NV	-30	36600	7.065637	20	PASS
Signal carrier	ANT1	5180	NV	-20	37300	7.200772	20	PASS
Signal carrier	ANT1	5180	NV	-10	37800	7.297297	20	PASS
Signal carrier	ANT1	5180	NV	0	38000	7.335907	20	PASS
Signal carrier	ANT1	5180	NV	10	37700	7.277992	20	PASS
Signal carrier	ANT1	5180	NV	20	35900	6.930502	20	PASS
Signal carrier	ANT1	5180	NV	30	37700	7.277992	20	PASS
Signal carrier	ANT1	5180	NV	40	37800	7.297297	20	PASS
Signal carrier	ANT1	5180	NV	50	37700	7.277992	20	PASS
Signal carrier	ANT2	5180	NV	-30	26400	5.096525	20	PASS
Signal carrier	ANT2	5180	NV	-20	26800	5.173745	20	PASS
Signal carrier	ANT2	5180	NV	-10	26400	5.096525	20	PASS
Signal carrier	ANT2	5180	NV	0	25800	4.980695	20	PASS
Signal carrier	ANT2	5180	NV	10	25400	4.903475	20	PASS
Signal carrier	ANT2	5180	NV	20	25300	4.88417	20	PASS
Signal carrier	ANT2	5180	NV	30	24400	4.710425	20	PASS
Signal carrier	ANT2	5180	NV	40	26300	5.07722	20	PASS
Signal carrier	ANT2	5180	NV	50	27000	5.212355	20	PASS
Signal carrier	ANT1	5190	NV	-30	32000	6.165703	20	PASS
Signal carrier	ANT1	5190	NV	-20	32000	6.165703	20	PASS
Signal carrier	ANT1	5190	NV	-10	32000	6.165703	20	PASS
Signal carrier	ANT1	5190	NV	0	32300	6.223507	20	PASS
Signal carrier	ANT1	5190	NV	10	32100	6.184971	20	PASS
Signal carrier	ANT1	5190	NV	20	32000	6.165703	20	PASS
Signal carrier	ANT1	5190	NV	30	32500	6.262042	20	PASS
Signal carrier	ANT1	5190	NV	40	32300	6.223507	20	PASS
Signal carrier	ANT1	5190	NV	50	32100	6.184971	20	PASS
Signal carrier	ANT2	5190	NV	-30	35900	6.917148	20	PASS
Signal carrier	ANT2	5190	NV	-20	34000	6.55106	20	PASS
Signal carrier	ANT2	5190	NV	-10	34100	6.570328	20	PASS
Signal carrier	ANT2	5190	NV	0	34400	6.628131	20	PASS
Signal carrier	ANT2	5190	NV	10	34500	6.647399	20	PASS
Signal carrier	ANT2	5190	NV	20	35400	6.820809	20	PASS
Signal carrier	ANT2	5190	NV	30	33800	6.512524	20	PASS
Signal carrier	ANT2	5190	NV	40	35000	6.743738	20	PASS
Signal carrier	ANT2	5190	NV	50	34500	6.647399	20	PASS
Signal carrier	ANT1	5200	NV	-30	35800	6.884615	20	PASS

Signal carrier	ANT1	5200	NV	-20	36100	6.942308	20	PASS
Signal carrier	ANT1	5200	NV	-10	36000	6.923077	20	PASS
Signal carrier	ANT1	5200	NV	0	36100	6.942308	20	PASS
Signal carrier	ANT1	5200	NV	10	34900	6.711538	20	PASS
Signal carrier	ANT1	5200	NV	20	36000	6.923077	20	PASS
Signal carrier	ANT1	5200	NV	30	36300	6.980769	20	PASS
Signal carrier	ANT1	5200	NV	40	36300	6.980769	20	PASS
Signal carrier	ANT1	5200	NV	50	36600	7.038462	20	PASS
Signal carrier	ANT2	5200	NV	-30	28300	5.442308	20	PASS
Signal carrier	ANT2	5200	NV	-20	27900	5.365385	20	PASS
Signal carrier	ANT2	5200	NV	-10	28300	5.442308	20	PASS
Signal carrier	ANT2	5200	NV	0	26900	5.173077	20	PASS
Signal carrier	ANT2	5200	NV	10	27300	5.25000	20	PASS
Signal carrier	ANT2	5200	NV	20	27200	5.230769	20	PASS
Signal carrier	ANT2	5200	NV	30	27300	5.25000	20	PASS
Signal carrier	ANT2	5200	NV	40	26500	5.096154	20	PASS
Signal carrier	ANT2	5200	NV	50	27700	5.326923	20	PASS
Signal carrier	ANT1	5210	NV	-30	30900	5.930902	20	PASS
Signal carrier	ANT1	5210	NV	-20	30800	5.911708	20	PASS
Signal carrier	ANT1	5210	NV	-10	31800	6.103647	20	PASS
Signal carrier	ANT1	5210	NV	0	31400	6.026871	20	PASS
Signal carrier	ANT1	5210	NV	10	32000	6.142035	20	PASS
Signal carrier	ANT1	5210	NV	20	32500	6.238004	20	PASS
Signal carrier	ANT1	5210	NV	30	32600	6.257198	20	PASS
Signal carrier	ANT1	5210	NV	40	32500	6.238004	20	PASS
Signal carrier	ANT1	5210	NV	50	31800	6.103647	20	PASS
Signal carrier	ANT2	5210	NV	-30	31700	6.084453	20	PASS
Signal carrier	ANT2	5210	NV	-20	31000	5.950096	20	PASS
Signal carrier	ANT2	5210	NV	-10	30800	5.911708	20	PASS
Signal carrier	ANT2	5210	NV	0	31400	6.026871	20	PASS
Signal carrier	ANT2	5210	NV	10	31400	6.026871	20	PASS
Signal carrier	ANT2	5210	NV	20	31500	6.046065	20	PASS
Signal carrier	ANT2	5210	NV	30	31600	6.065259	20	PASS
Signal carrier	ANT2	5210	NV	40	31600	6.065259	20	PASS
Signal carrier	ANT2	5210	NV	50	31500	6.046065	20	PASS
Signal carrier	ANT1	5230	NV	-30	29900	5.717017	20	PASS
Signal carrier	ANT1	5230	NV	-20	31000	5.927342	20	PASS
Signal carrier	ANT1	5230	NV	-10	32200	6.156788	20	PASS
Signal carrier	ANT1	5230	NV	0	32200	6.156788	20	PASS
Signal carrier	ANT1	5230	NV	10	32800	6.271511	20	PASS
Signal carrier	ANT1	5230	NV	20	33200	6.347992	20	PASS
Signal carrier	ANT1	5230	NV	30	33200	6.347992	20	PASS
Signal carrier	ANT1	5230	NV	40	32000	6.118547	20	PASS
Signal carrier	ANT1	5230	NV	50	33500	6.405354	20	PASS
Signal carrier	ANT2	5230	NV	-30	34500	6.596558	20	PASS
Signal carrier	ANT2	5230	NV	-20	34300	6.558317	20	PASS
Signal carrier	ANT2	5230	NV	-10	34600	6.615679	20	PASS
Signal carrier	ANT2	5230	NV	0	34400	6.577438	20	PASS
Signal carrier	ANT2	5230	NV	10	34100	6.520076	20	PASS
Signal carrier	ANT2	5230	NV	20	33500	6.405354	20	PASS
Signal carrier	ANT2	5230	NV	30	34600	6.615679	20	PASS

Signal carrier	ANT2	5230	NV	40	33300	6.367113	20	PASS
Signal carrier	ANT2	5230	NV	50	32700	6.25239	20	PASS
Signal carrier	ANT1	5240	NV	-30	37200	7.099237	20	PASS
Signal carrier	ANT1	5240	NV	-20	36800	7.022901	20	PASS
Signal carrier	ANT1	5240	NV	-10	37500	7.156489	20	PASS
Signal carrier	ANT1	5240	NV	0	37900	7.232824	20	PASS
Signal carrier	ANT1	5240	NV	10	37700	7.194656	20	PASS
Signal carrier	ANT1	5240	NV	20	36800	7.022901	20	PASS
Signal carrier	ANT1	5240	NV	30	36600	6.984733	20	PASS
Signal carrier	ANT1	5240	NV	40	37300	7.118321	20	PASS
Signal carrier	ANT1	5240	NV	50	37800	7.213740	20	PASS
Signal carrier	ANT2	5240	NV	-30	30300	5.782443	20	PASS
Signal carrier	ANT2	5240	NV	-20	30500	5.820611	20	PASS
Signal carrier	ANT2	5240	NV	-10	29600	5.648855	20	PASS
Signal carrier	ANT2	5240	NV	0	30400	5.801527	20	PASS
Signal carrier	ANT2	5240	NV	10	26400	5.038168	20	PASS
Signal carrier	ANT2	5240	NV	20	28600	5.458015	20	PASS
Signal carrier	ANT2	5240	NV	30	30000	5.725191	20	PASS
Signal carrier	ANT2	5240	NV	40	27800	5.305344	20	PASS
Signal carrier	ANT2	5240	NV	50	29100	5.553435	20	PASS
Signal carrier	ANT1	5745	NV	-30	38600	6.718886	20	PASS
Signal carrier	ANT1	5745	NV	-20	35400	6.161880	20	PASS
Signal carrier	ANT1	5745	NV	-10	39200	6.823325	20	PASS
Signal carrier	ANT1	5745	NV	0	38600	6.718886	20	PASS
Signal carrier	ANT1	5745	NV	10	36900	6.422977	20	PASS
Signal carrier	ANT1	5745	NV	20	39300	6.840731	20	PASS
Signal carrier	ANT1	5745	NV	30	39300	6.840731	20	PASS
Signal carrier	ANT1	5745	NV	40	38100	6.631854	20	PASS
Signal carrier	ANT1	5745	NV	50	37700	6.562228	20	PASS
Signal carrier	ANT2	5745	NV	-30	35800	6.231506	20	PASS
Signal carrier	ANT2	5745	NV	-20	40400	7.032202	20	PASS
Signal carrier	ANT2	5745	NV	-10	39700	6.910357	20	PASS
Signal carrier	ANT2	5745	NV	0	39200	6.823325	20	PASS
Signal carrier	ANT2	5745	NV	10	38800	6.753699	20	PASS
Signal carrier	ANT2	5745	NV	20	38500	6.701480	20	PASS
Signal carrier	ANT2	5745	NV	30	37400	6.510009	20	PASS
Signal carrier	ANT2	5745	NV	40	36100	6.283725	20	PASS
Signal carrier	ANT2	5745	NV	50	36900	6.422977	20	PASS
Signal carrier	ANT1	5755	NV	-30	37600	6.533449	20	PASS
Signal carrier	ANT1	5755	NV	-20	37500	6.516073	20	PASS
Signal carrier	ANT1	5755	NV	-10	37500	6.516073	20	PASS
Signal carrier	ANT1	5755	NV	0	36400	6.324935	20	PASS
Signal carrier	ANT1	5755	NV	10	36000	6.255430	20	PASS
Signal carrier	ANT1	5755	NV	20	35500	6.168549	20	PASS
Signal carrier	ANT1	5755	NV	30	37500	6.516073	20	PASS
Signal carrier	ANT1	5755	NV	40	36400	6.324935	20	PASS
Signal carrier	ANT1	5755	NV	50	37200	6.463944	20	PASS
Signal carrier	ANT2	5755	NV	-30	36000	6.255430	20	PASS
Signal carrier	ANT2	5755	NV	-20	38000	6.602954	20	PASS
Signal carrier	ANT2	5755	NV	-10	32700	5.682016	20	PASS
Signal carrier	ANT2	5755	NV	0	38200	6.637706	20	PASS

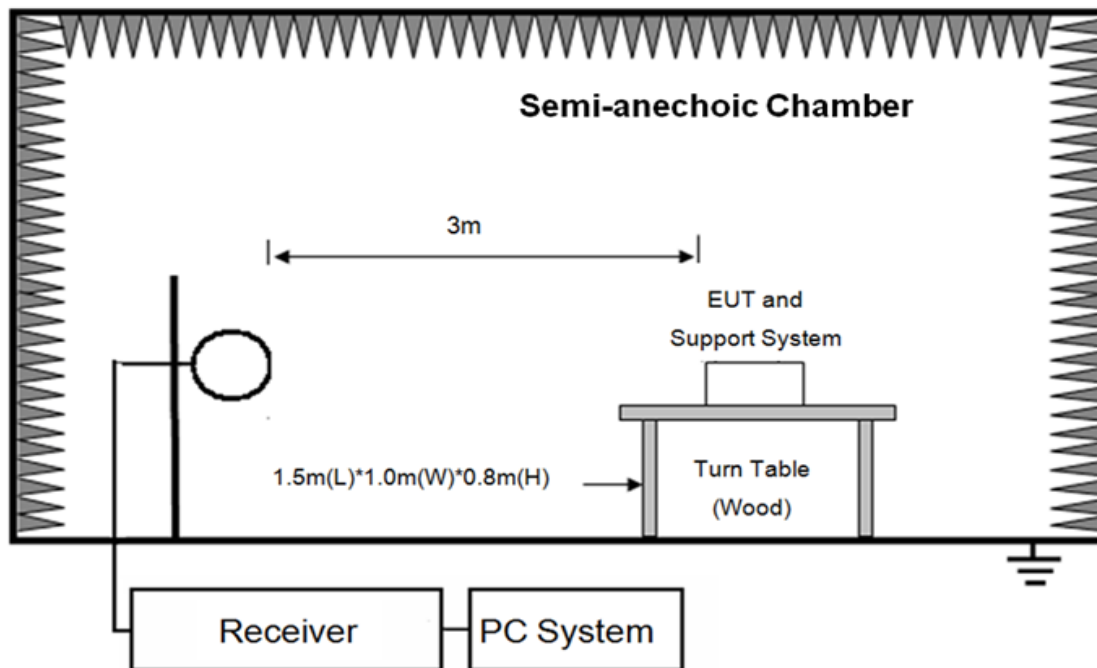
Signal carrier	ANT2	5755	NV	10	35600	6.185925	20	PASS
Signal carrier	ANT2	5755	NV	20	31500	5.473501	20	PASS
Signal carrier	ANT2	5755	NV	30	37400	6.498697	20	PASS
Signal carrier	ANT2	5755	NV	40	37600	6.533449	20	PASS
Signal carrier	ANT2	5755	NV	50	34500	5.994787	20	PASS
Signal carrier	ANT1	5775	NV	-30	38200	6.614719	20	PASS
Signal carrier	ANT1	5775	NV	-20	36800	6.372294	20	PASS
Signal carrier	ANT1	5775	NV	-10	38000	6.580087	20	PASS
Signal carrier	ANT1	5775	NV	0	37300	6.458874	20	PASS
Signal carrier	ANT1	5775	NV	10	38200	6.614719	20	PASS
Signal carrier	ANT1	5775	NV	20	38200	6.614719	20	PASS
Signal carrier	ANT1	5775	NV	30	38200	6.614719	20	PASS
Signal carrier	ANT1	5775	NV	40	37900	6.562771	20	PASS
Signal carrier	ANT1	5775	NV	50	37800	6.545455	20	PASS
Signal carrier	ANT2	5775	NV	-30	41400	7.168831	20	PASS
Signal carrier	ANT2	5775	NV	-20	41900	7.255411	20	PASS
Signal carrier	ANT2	5775	NV	-10	41600	7.203463	20	PASS
Signal carrier	ANT2	5775	NV	0	41600	7.203463	20	PASS
Signal carrier	ANT2	5775	NV	10	41100	7.116883	20	PASS
Signal carrier	ANT2	5775	NV	20	40500	7.012987	20	PASS
Signal carrier	ANT2	5775	NV	30	40500	7.012987	20	PASS
Signal carrier	ANT2	5775	NV	40	39600	6.857143	20	PASS
Signal carrier	ANT2	5775	NV	50	37900	6.562771	20	PASS
Signal carrier	ANT1	5785	NV	-30	39100	6.758859	20	PASS
Signal carrier	ANT1	5785	NV	-20	38200	6.603284	20	PASS
Signal carrier	ANT1	5785	NV	-10	39800	6.879862	20	PASS
Signal carrier	ANT1	5785	NV	0	40500	7.000864	20	PASS
Signal carrier	ANT1	5785	NV	10	40200	6.949006	20	PASS
Signal carrier	ANT1	5785	NV	20	40400	6.983578	20	PASS
Signal carrier	ANT1	5785	NV	30	40200	6.949006	20	PASS
Signal carrier	ANT1	5785	NV	40	39900	6.897148	20	PASS
Signal carrier	ANT1	5785	NV	50	39600	6.845290	20	PASS
Signal carrier	ANT2	5785	NV	-30	41800	7.225583	20	PASS
Signal carrier	ANT2	5785	NV	-20	42000	7.260156	20	PASS
Signal carrier	ANT2	5785	NV	-10	37000	6.395851	20	PASS
Signal carrier	ANT2	5785	NV	0	38700	6.689715	20	PASS
Signal carrier	ANT2	5785	NV	10	39300	6.793431	20	PASS
Signal carrier	ANT2	5785	NV	20	39900	6.897148	20	PASS
Signal carrier	ANT2	5785	NV	30	40500	7.000864	20	PASS
Signal carrier	ANT2	5785	NV	40	41100	7.104581	20	PASS
Signal carrier	ANT2	5785	NV	50	40700	7.035436	20	PASS
Signal carrier	ANT1	5795	NV	-30	37400	6.453840	20	PASS
Signal carrier	ANT1	5795	NV	-20	31100	5.366695	20	PASS
Signal carrier	ANT1	5795	NV	-10	36900	6.367558	20	PASS
Signal carrier	ANT1	5795	NV	0	36400	6.281277	20	PASS
Signal carrier	ANT1	5795	NV	10	35500	6.125971	20	PASS
Signal carrier	ANT1	5795	NV	20	34100	5.884383	20	PASS
Signal carrier	ANT1	5795	NV	30	32600	5.625539	20	PASS
Signal carrier	ANT1	5795	NV	40	37300	6.436583	20	PASS
Signal carrier	ANT1	5795	NV	50	35100	6.056946	20	PASS
Signal carrier	ANT2	5795	NV	-30	37900	6.540121	20	PASS

Signal carrier	ANT2	5795	NV	-20	41800	7.213115	20	PASS
Signal carrier	ANT2	5795	NV	-10	37000	6.384814	20	PASS
Signal carrier	ANT2	5795	NV	10	39200	6.764452	20	PASS
Signal carrier	ANT2	5795	NV	20	39700	6.850733	20	PASS
Signal carrier	ANT2	5795	NV	30	41100	7.092321	20	PASS
Signal carrier	ANT2	5795	NV	40	41400	7.144090	20	PASS
Signal carrier	ANT2	5795	NV	50	40500	6.988783	20	PASS
Signal carrier	ANT1	5825	NV	-30	42400	7.278970	20	PASS
Signal carrier	ANT1	5825	NV	-20	42200	7.244635	20	PASS
Signal carrier	ANT1	5825	NV	-10	41800	7.175966	20	PASS
Signal carrier	ANT1	5825	NV	0	41600	7.141631	20	PASS
Signal carrier	ANT1	5825	NV	10	38300	6.575107	20	PASS
Signal carrier	ANT1	5825	NV	20	39500	6.781116	20	PASS
Signal carrier	ANT1	5825	NV	30	40200	6.901288	20	PASS
Signal carrier	ANT1	5825	NV	40	40900	7.021459	20	PASS
Signal carrier	ANT1	5825	NV	50	41800	7.175966	20	PASS
Signal carrier	ANT2	5825	NV	-30	45200	7.759657	20	PASS
Signal carrier	ANT2	5825	NV	-20	45300	7.776824	20	PASS
Signal carrier	ANT2	5825	NV	-10	44100	7.570815	20	PASS
Signal carrier	ANT2	5825	NV	0	43800	7.519313	20	PASS
Signal carrier	ANT2	5825	NV	10	42200	7.244635	20	PASS
Signal carrier	ANT2	5825	NV	20	41600	7.141631	20	PASS
Signal carrier	ANT2	5825	NV	30	41300	7.090129	20	PASS
Signal carrier	ANT2	5825	NV	40	39700	6.815451	20	PASS
Signal carrier	ANT2	5825	NV	50	44900	7.708155	20	PASS

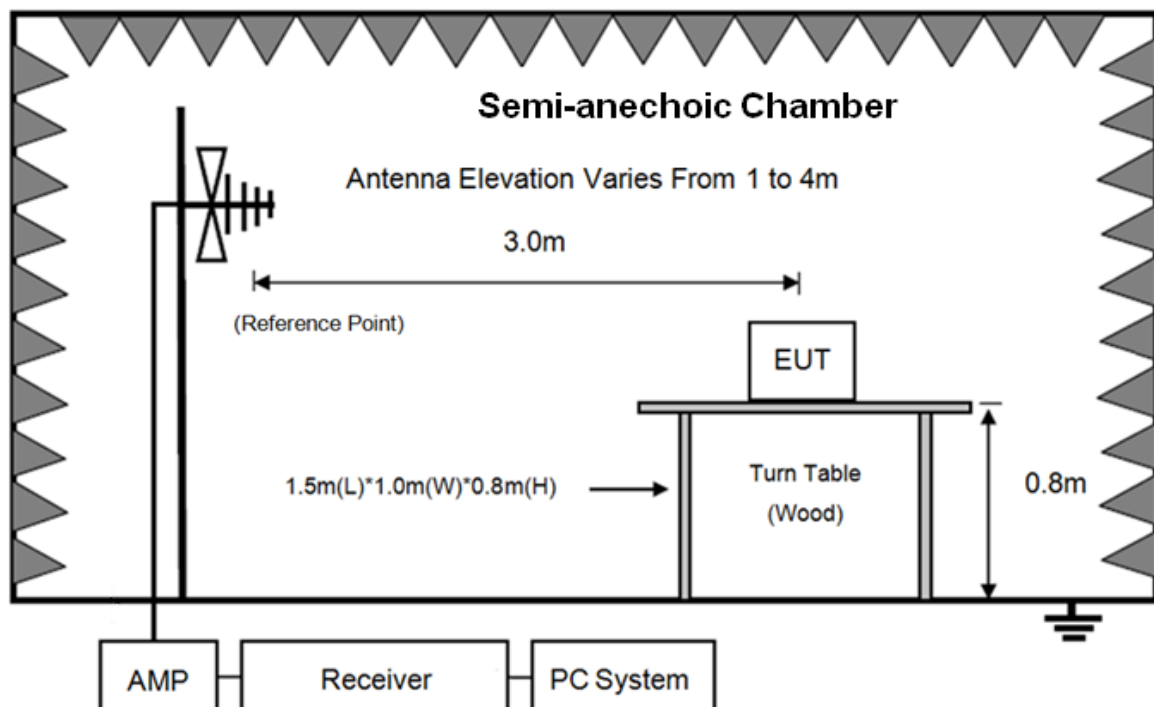
8. Emissions in restricted frequency bands

8.1. Block diagram of test setup

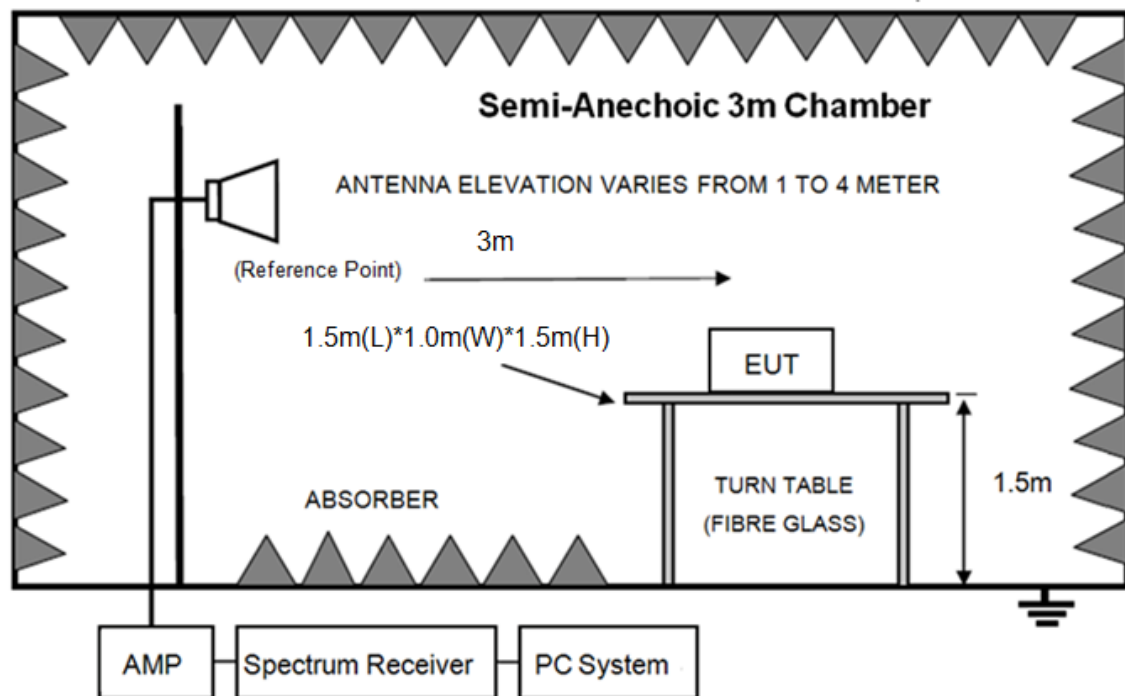
In 3m Anechoic Chamber Test Setup Diagram for 9kHz-30MHz



In 3m Anechoic Chamber Test Setup Diagram for 30MHz-1GHz



In 3m Anechoic Chamber Test Setup Diagram for frequency above 1GHz



Note: For harmonic emissions test a appropriate high pass filter was inserted in the input port of AMP.

8.2. Limit

15.407(b) Undesirable emission limits: Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

(ii) Devices certified before March 2, 2017 with antenna gain greater than 10 dBi may demonstrate compliance with the emission limits in §15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease by March 2, 2018. Devices certified before March 2, 2018 with antenna gain of 10 dBi or less may demonstrate compliance with the emission limits in §15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease before March 2, 2020.

(5) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.

(6) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in §15.207.

(7) The provisions of §15.205 apply to intentional radiators operating under this section.

(8) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency band edges as the design of the equipment permits.

(c) The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

FCC 15.205 Restricted frequency band:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.1772&4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.2072&4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.G
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

FCC 15.209 Limit.

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		μV/m	dB(μV)/m
0.009 ~ 0.490	300	2400/F(kHz)	67.6-20log(F)
0.490 ~ 1.705	30	24000/F(kHz)	87.6-20log(F)
1.705 ~ 30.0	30	30	29.54
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0

Above 1000	3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)
------------	---	---

Note: (1) The emission limits shown in the above table are based on measurements employing a CISPR QP detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000MHz. Radiated emissions limits in these three bands are based on measurements employing an average detector.

(2) At frequencies below 30MHz, measurement may be performed at a distance closer than that specified, and the limit at closer measurement distance can be extrapolated by below formula:

$$\text{Limit}_{3m}(\text{dBuV/m}) = \text{Limit}_{30m}(\text{dBuV/m}) + 40\text{Log}(30m/3m)$$

Limit for this EUT

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209.

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band:

All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

8.3. Test Procedure

- (1) EUT height should be 0.8m for below 1GHz at a semi - anechoic chamber while EUT height should be 1.5m for above 1GHz at full chamber or semi - anechoic chamber ground with absorbers
- (2) Setup EUT and assistant system according clause 2.3 and 8.2
- (3) Test antenna was located 3m from the EUT on an adjustable mast, and the antenna used as below table.

Test frequency range	Test antenna used	Test distance
9kHz-30MHz	Active Loop antenna	3m
30MHz-1GHz	Trilog Broadband Antenna	3m
1GHz-18GHz	Double Ridged Horn Antenna(1GHz-18GHz)	3m
18GHz-40GHz	Horn Antenna(18GHz-40GHz)	1m

According ANSI C63.10:2013 clause 6.4.4.2 and 6.5.3, for measurements below 30 MHz, the loop antenna was positioned with its plane vertical from the EUT and rotated about its vertical axis for maximum response at each azimuth position around the EUT. And the loop antenna also be positioned with its plane horizontal at the specified distance from the EUT. The center of the

loop is 1 m above the ground. for measurement above 30MHz, the Trilog Broadband Antenna or Horn Antenna was located 3m from EUT, Measurements were made with the antenna positioned in both the horizontal and vertical planes of Polarization, and the measurement antenna was varied from 1 m to 4 m. in height above the reference ground plane to obtain the maximum signal strength.

(4) Below pre-scan procedure was first performed in order to find prominent frequency spectrum radiated emissions from 9kHz to 40GHz:

(a) Scanning the peak frequency spectrum with the antenna specified in step (3), and the EUT was rotated 360 degree, the antenna height was varied from 1m to 4m (Except loop antenna, it's fixed 1m above ground.)

(b) Change work frequency or channel of device if practicable.

(c) Change modulation type of device if practicable.

(d) Change power supply range from 85% to 115% of the rated supply voltage

(e) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions.

Spectrum frequency from 9kHz to 40GHz (tenth harmonic of fundamental frequency) was investigated, and no any obvious emission were detected from 9kHz to 30MHz and 18GHz to 40GHz, so below final test was performed with frequency range from 30MHz to 18GHz.

(5) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipment and all of the interface cables were changed according to ANSI C63.10 2013 on Radiated Emission test.

(6) The emissions from 9kHz to 1GHz were measured based on CISPR QP detector except for the frequency bands 9-90kHz, 110-490kHz, for emissions from 9kHz-90kHz,110kHz-490kHz and above 1GHz were measured based on average detector, for emissions above 1GHz, peak emissions also be measured and need comply with Peak limit.

(7) The emissions from 9kHz to 1GHz, QP or average values were measured with EMI receiver with below RBW

Frequency band	RBW
9kHz-150kHz	200Hz
150kHz-30MHz	9kHz
30MHz-1GHz	120kHz

(8) For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1MHz, VBW is set at 3MHz ,Peak detector for Peak measure , RMS detector for AV value

8.4. Test result

PASS. (See below detailed test result)

All the emissions except fundamental emission from 9kHz to 40GHz were comply with 15.209 limit.

Note1: According exploratory test no any obvious emissions were detected from 9kHz to 30MHz and 18GHz to 40GHz, so the final test was performed with frequency range from 30MHz to 18GHz and recorded in below.

Note2: For emissions below 1GHz, according exploratory explorer test, when change Tx mode and channel, have no distinct influence on emissions level, so for emissions below 1GHz, the final test was only performed with EUT working in 11a mode.

Note3: For emissions above 1GHz, 11a ANT1, 11n20, n40, 11ac20, 11ac40,11ac80 mode ANT 1, ANT 2 mode and MIMO mode all have been tested, only 11a ANT 1 mode is the worst case and reported.

Radiated Emission test (below 1GHz)

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#

D:\2018 RE1# Report Data\Q18042804-1E M2\FCC
BELOW1G.EM6

Test Date : 2018-05-15

Tested By : Talent

EUT : Wi-Fi ROUTER

Model Number : M2

Power Supply : AC 120V/ 60Hz

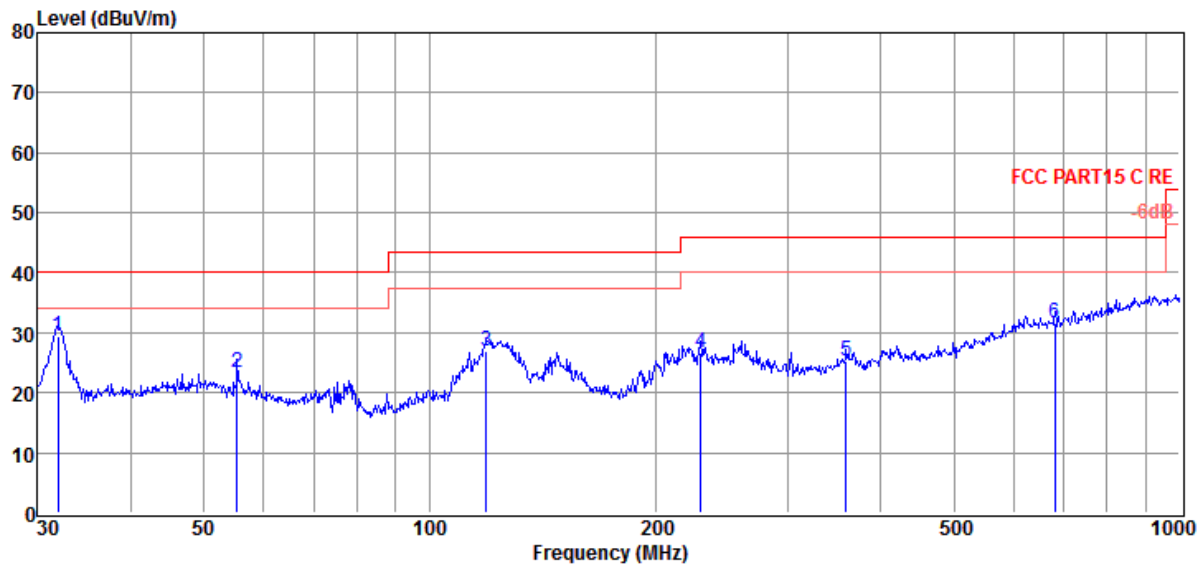
Test Mode : Tx mode

Condition : Temp:24.5'C,Humi:55%,
Press:100.1kPa

Antenna/Distance : 2017 VULB 9163 1#/3m/HORIZONTAL

Memo :

Data: 3



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	31.96	14.78	10.88	0.00	3.80	29.46	40.00	-10.54	QP	HORIZONTAL
2	55.42	6.93	12.45	0.00	4.05	23.43	40.00	-16.57	QP	HORIZONTAL
3	119.02	12.96	9.30	0.00	4.56	26.82	43.50	-16.68	QP	HORIZONTAL
4	230.10	9.40	12.12	0.00	5.19	26.71	46.00	-19.29	QP	HORIZONTAL
5	359.19	4.89	14.49	0.00	5.79	25.17	46.00	-20.83	QP	HORIZONTAL
6	682.35	4.94	19.65	0.00	6.95	31.54	46.00	-14.46	QP	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#

D:\2018 RE1# Report Data\Q18042804-1E M2\FCC
BELOW1G.EM6

Test Date : 2018-05-15

Tested By : Talent

EUT : Wi-Fi ROUTER

Model Number : M2

Power Supply : AC 120V/ 60Hz

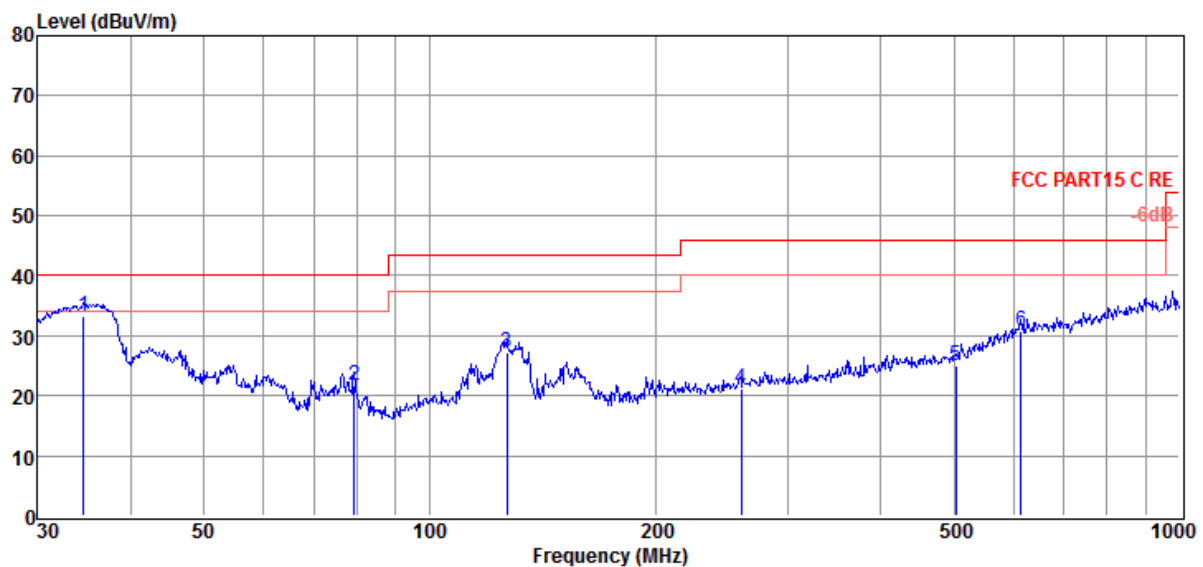
Test Mode : Tx mode

Condition : Temp:24.5'C,Humi:55%,
Press:100.1kPa

Antenna/Distance : 2017 VULB 9163 1#/3m/VERTICAL

Memo :

Data: 4



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV /m)	Over Limit (dB)	Detector	Polarization
1	34.52	18.08	11.47	0.00	3.82	33.37	40.00	-6.63	Peak	VERTICAL
2	79.24	9.83	7.71	0.00	4.24	21.78	40.00	-18.22	Peak	VERTICAL
3	126.77	14.11	8.56	0.00	4.62	27.29	43.50	-16.21	Peak	VERTICAL
4	260.14	3.26	12.67	0.00	5.34	21.27	46.00	-24.73	Peak	VERTICAL
5	502.94	1.98	17.56	0.00	5.36	24.90	46.00	-21.10	Peak	VERTICAL
6	614.21	4.67	19.45	0.00	6.72	30.84	46.00	-15.16	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#

D:\2019 Report test data\Q19080706-1E M2\FCC BELOW
1G.EM6

Test Date : 2019-08-22

Tested By : Huang

EUT : WI-FI ROUTER

Model Number : M2

Power Supply : AC 120V/60Hz with new Adapter

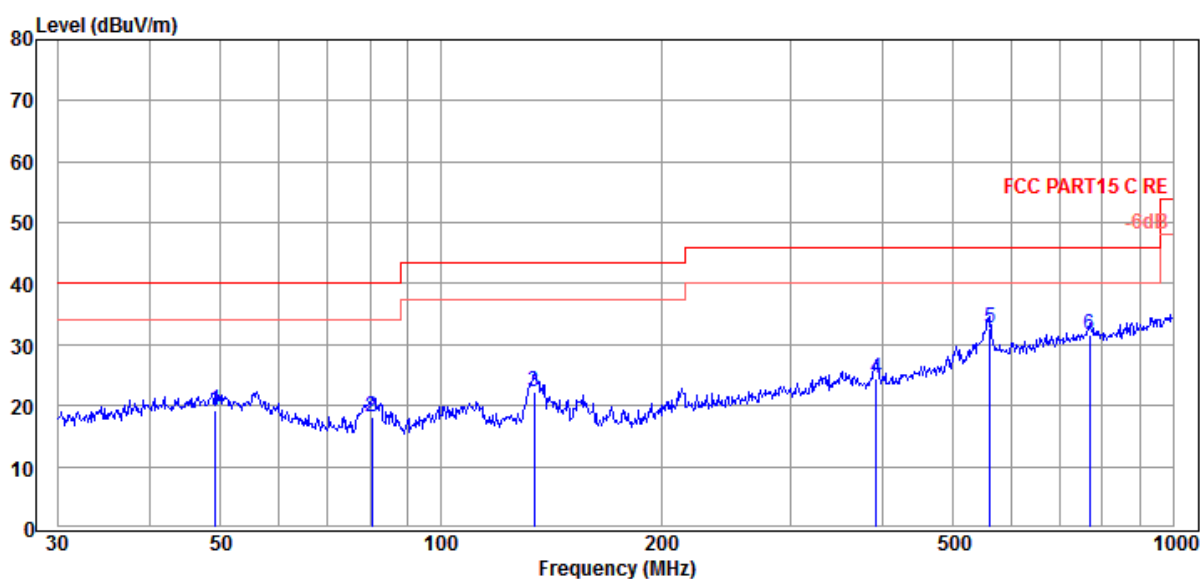
Test Mode : Tx mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2018 VULB 9163 1#/3m/HORIZONTAL

Memo : 5G

Data: 3



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	49.19	0.77	14.51	3.86	19.14	40.00	-20.86	QP	HORIZONTAL
2	80.36	5.23	8.94	4.08	18.25	40.00	-21.75	QP	HORIZONTAL
3	134.09	8.71	9.17	4.39	22.27	43.50	-21.23	QP	HORIZONTAL
4	393.47	3.43	15.51	5.49	24.43	46.00	-21.57	QP	HORIZONTAL
5	562.66	8.76	18.01	5.99	32.76	46.00	-13.24	QP	HORIZONTAL
6	768.75	4.56	20.52	6.54	31.62	46.00	-14.38	QP	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#

D:\2019 Report test data\Q19080706-1E M2\FCC BELOW
1G.EM6

Test Date : 2019-08-22

Tested By : Huang

EUT : WI-FI ROUTER

Model Number : M2

Power Supply : AC 120V/60Hz with new Adapter

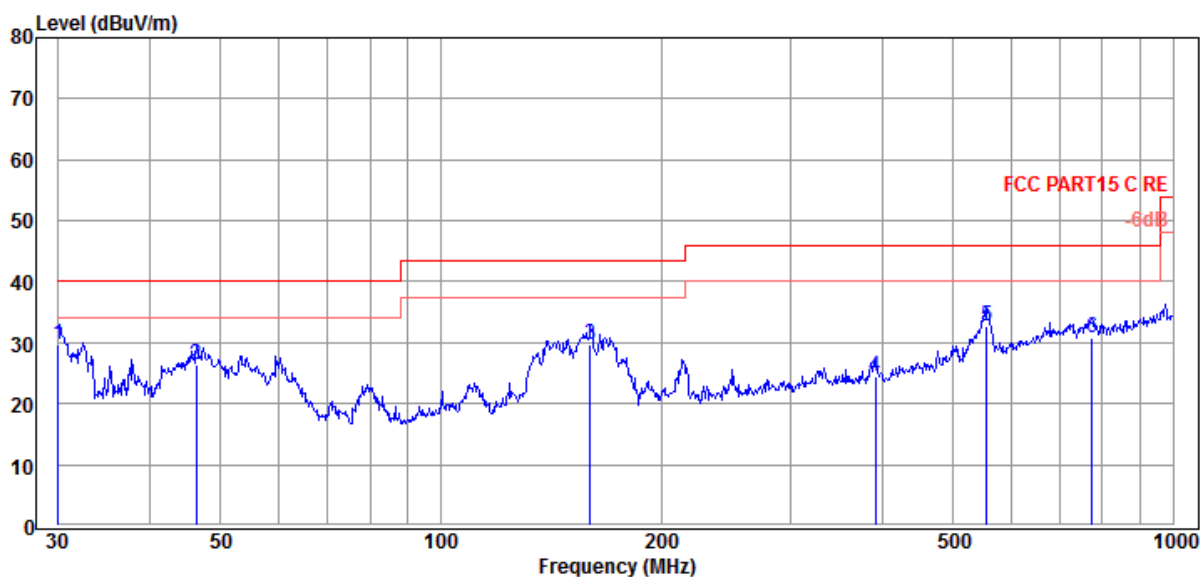
Test Mode : Tx mode

Condition : Temp:24.5°C,Humi:55%,Press:100.1kPa

Antenna/Distance : 2018 VULB 9163 1#/3m/VERTICAL

Memo : 5G

Data: 4



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	30.00	14.82	11.10	3.64	29.56	40.00	-10.44	QP	VERTICAL
2	46.34	8.41	14.19	3.84	26.44	40.00	-13.56	QP	VERTICAL
3	159.78	16.43	8.79	4.59	29.81	43.50	-13.69	QP	VERTICAL
4	392.10	3.41	15.49	5.48	24.38	46.00	-21.62	QP	VERTICAL
5	556.77	8.85	17.93	5.98	32.76	46.00	-13.24	QP	VERTICAL
6	774.16	3.60	20.55	6.55	30.70	46.00	-15.30	QP	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

Radiated Emission test (above 1GHz)

Freq (MHz)	Read level (dBμV)	Antenna Factor (dB/m)	PRM Factor (dB)	Cable Loss (dB)	Result Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector type	Polarization
11a CH36									
7103.00	47.92	36.84	43.53	8.42	49.65	68.20	-18.55	Peak	HORIZONTAL
8854.00	46.96	37.44	44.06	10.20	50.54	68.20	-17.66	Peak	HORIZONTAL
9857.00	47.64	38.06	44.36	10.82	52.16	68.20	-16.04	Peak	HORIZONTAL
10690.00	47.51	38.61	44.30	11.01	52.83	68.20	-15.37	Peak	HORIZONTAL
11370.00	47.46	38.65	44.19	11.03	52.95	68.20	-15.25	Peak	HORIZONTAL
12747.00	46.28	39.05	44.29	11.25	52.29	68.20	-15.91	Peak	HORIZONTAL
6219.00	48.71	35.70	43.27	8.24	49.38	68.20	-18.82	Peak	VERTICAL
8378.00	47.34	37.28	43.91	9.66	50.37	68.20	-17.83	Peak	VERTICAL
9483.00	47.53	37.69	44.24	10.62	51.60	68.20	-16.60	Peak	VERTICAL
10707.00	48.12	38.62	44.29	11.01	53.46	68.20	-14.74	Peak	VERTICAL
11404.00	46.67	38.64	44.19	11.02	52.14	68.20	-16.06	Peak	VERTICAL
13444.00	46.58	39.74	44.46	11.80	53.66	68.20	-14.54	Peak	VERTICAL
11a CH40									
6661.00	46.87	36.05	43.40	8.29	47.81	68.20	-20.39	Peak	HORIZONTAL
7562.00	45.93	37.02	43.67	8.84	48.12	68.20	-20.08	Peak	HORIZONTAL
9551.00	46.35	37.75	44.27	10.66	50.49	68.20	-17.71	Peak	HORIZONTAL
9976.00	46.67	38.18	44.39	10.88	51.34	68.20	-16.86	Peak	HORIZONTAL
10945.00	47.60	38.77	44.26	11.05	53.16	68.20	-15.04	Peak	HORIZONTAL
12220.00	45.43	38.86	44.15	11.05	51.19	68.20	-17.01	Peak	HORIZONTAL
5658.00	50.06	35.56	43.41	7.99	50.20	68.20	-18.00	Peak	VERTICAL
7154.00	48.67	36.86	43.55	8.47	50.45	68.20	-17.75	Peak	VERTICAL
9483.00	46.98	37.69	44.24	10.62	51.05	68.20	-17.15	Peak	VERTICAL
11047.00	46.98	38.78	44.24	11.06	52.58	68.20	-15.62	Peak	VERTICAL
12220.00	47.20	38.86	44.15	11.05	52.96	68.20	-15.24	Peak	VERTICAL
13427.00	46.99	39.73	44.46	11.78	54.04	68.20	-14.16	Peak	VERTICAL
11a CH48									
7188.00	47.89	36.88	43.56	8.50	49.71	68.20	-18.49	Peak	HORIZONTAL
8905.00	46.99	37.46	44.07	10.26	50.64	68.20	-17.56	Peak	HORIZONTAL
9840.00	46.96	38.04	44.35	10.81	51.46	68.20	-16.74	Peak	HORIZONTAL
10656.00	47.31	38.59	44.30	11.00	52.60	68.20	-15.60	Peak	HORIZONTAL
11965.00	46.44	38.88	44.11	10.97	52.18	68.20	-16.02	Peak	HORIZONTAL
13427.00	45.03	39.73	44.46	11.78	52.08	68.20	-16.12	Peak	HORIZONTAL
5658.00	48.91	35.56	43.41	7.99	49.05	68.20	-19.15	Peak	VERTICAL
7188.00	46.97	36.88	43.56	8.50	48.79	68.20	-19.41	Peak	VERTICAL
9840.00	47.20	38.04	44.35	10.81	51.70	68.20	-16.50	Peak	VERTICAL
10724.00	48.12	38.63	44.29	11.01	53.47	68.20	-14.73	Peak	VERTICAL
13444.00	45.25	39.74	44.46	11.80	52.33	68.20	-15.87	Peak	VERTICAL
13886.00	44.72	39.95	44.57	12.24	52.34	68.20	-15.86	Peak	VERTICAL
Conclusion: Pass									
Note: $-27 \text{ dBm/MHz Limit} = 95.2 + \text{EIRP}[\text{dBm}] = 95.2 - 27 = 68.2 \text{ dB}\mu\text{V/m}$ For transmitters operating in the 5150MHz-5250MHz, 5725MHz-5850MHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.									

Freq (MHz)	Read level (dBμV)	Antenna Factor (dB/m)	PRM Factor (dB)	Cable Loss (dB)	Result Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector type	Polarization
11a CH149									
7137.00	47.02	36.85	43.54	8.45	48.78	68.20	-19.42	Peak	HORIZONTAL
8565.00	45.17	37.33	43.97	9.87	48.40	68.20	-19.80	Peak	HORIZONTAL
9517.00	46.24	37.72	44.26	10.64	50.34	68.20	-17.86	Peak	HORIZONTAL
10129.00	49.25	38.28	44.38	10.91	54.06	68.20	-14.14	Peak	HORIZONTAL
10809.00	47.60	38.69	44.28	11.03	53.04	68.20	-15.16	Peak	HORIZONTAL
12101.00	45.60	38.88	44.13	11.01	51.36	68.20	-16.84	Peak	HORIZONTAL
7222.00	47.89	36.89	43.57	8.53	49.74	68.20	-18.46	Peak	VERTICAL
9296.00	46.26	37.62	44.19	10.52	50.21	68.20	-17.99	Peak	VERTICAL
9993.00	46.57	38.19	44.40	10.89	51.25	68.20	-16.95	Peak	VERTICAL
10928.00	47.32	38.76	44.26	11.05	52.87	68.20	-15.33	Peak	VERTICAL
12934.00	44.27	39.23	44.33	11.32	50.49	68.20	-17.71	Peak	VERTICAL
13427.00	45.10	39.73	44.46	11.78	52.15	68.20	-16.05	Peak	VERTICAL
11a CH157									
7528.00	47.29	37.01	43.66	8.81	49.45	68.20	-18.75	Peak	HORIZONTAL
8395.00	46.64	37.28	43.92	9.68	49.68	68.20	-18.52	Peak	HORIZONTAL
9517.00	47.21	37.72	44.26	10.64	51.31	68.20	-16.89	Peak	HORIZONTAL
10775.00	47.55	38.67	44.28	11.02	52.96	68.20	-15.24	Peak	HORIZONTAL
12356.00	45.94	38.83	44.19	11.11	51.69	68.20	-16.51	Peak	HORIZONTAL
13546.00	44.95	39.82	44.49	11.90	52.18	68.20	-16.02	Peak	HORIZONTAL
6712.00	49.46	36.17	43.41	8.30	50.52	68.20	-17.68	Peak	VERTICAL
7562.00	47.83	37.02	43.67	8.84	50.02	68.20	-18.18	Peak	VERTICAL
8939.00	47.62	37.48	44.08	10.30	51.32	68.20	-16.88	Peak	VERTICAL
9551.00	48.37	37.75	44.27	10.66	52.51	68.20	-15.69	Peak	VERTICAL
10741.00	47.65	38.64	44.29	11.02	53.02	68.20	-15.18	Peak	VERTICAL
13359.00	46.62	39.66	44.44	11.71	53.55	68.20	-14.65	Peak	VERTICAL
11a CH165									
6134.00	47.81	35.70	43.24	8.23	48.50	68.20	-19.70	Peak	HORIZONTAL
7222.00	47.25	36.89	43.57	8.53	49.10	68.20	-19.10	Peak	HORIZONTAL
8820.00	47.21	37.43	44.05	10.16	50.75	68.20	-17.45	Peak	HORIZONTAL
10299.00	47.17	38.38	44.36	10.94	52.13	68.20	-16.07	Peak	HORIZONTAL
10894.00	46.53	38.74	44.27	11.04	52.04	68.20	-16.16	Peak	HORIZONTAL
13376.00	45.41	39.68	44.44	11.73	52.38	68.20	-15.82	Peak	HORIZONTAL
7239.00	46.50	36.90	43.57	8.55	48.38	68.20	-19.82	Peak	VERTICAL
8633.00	46.20	37.35	43.99	9.95	49.51	68.20	-18.69	Peak	VERTICAL
9908.00	47.31	38.11	44.37	10.84	51.89	68.20	-16.31	Peak	VERTICAL
10877.00	46.90	38.73	44.27	11.04	52.40	68.20	-15.80	Peak	VERTICAL
11846.00	45.85	38.81	44.12	10.98	51.52	68.20	-16.68	Peak	VERTICAL
14141.00	43.60	40.42	44.55	12.43	51.90	68.20	-16.30	Peak	VERTICAL
Conclusion: Pass									
Note: $-27 \text{ dBm/MHz Limit} = 95.2 + \text{EIRP}[\text{dBm}] = 95.2 - 27 = 68.2 \text{ dB}\mu\text{V/m}$ For transmitters operating in the 5150MHz-5250MHz, 5725MHz-5850MHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.									

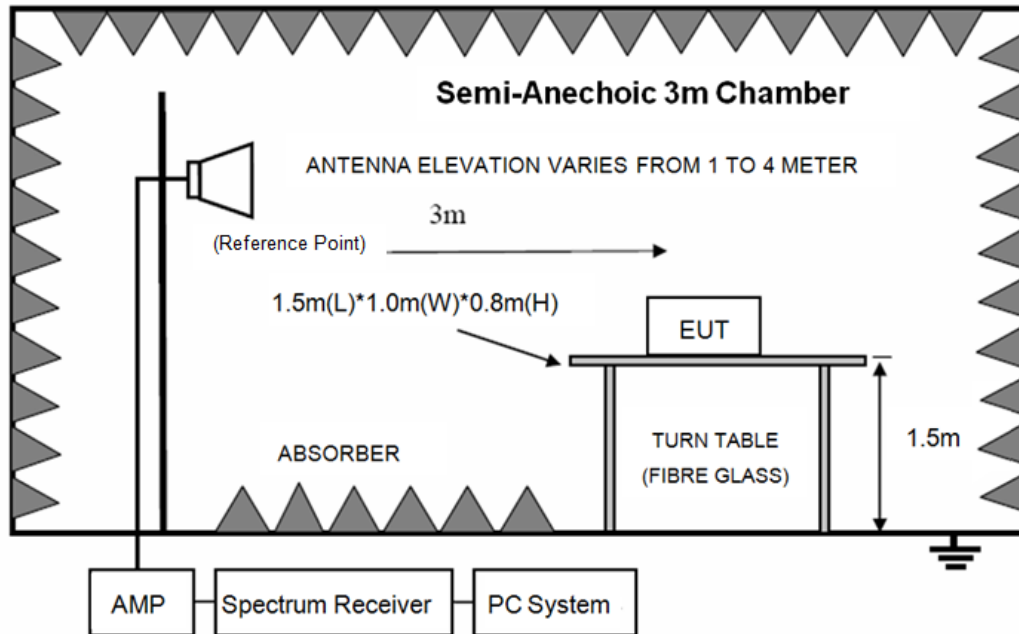
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with QP limit, QP Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

9. Band Edge Compliance

9.1. Block diagram of test setup



9.2. Limit

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27dBm/MHz

For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27dBm/MHz at the band edge.

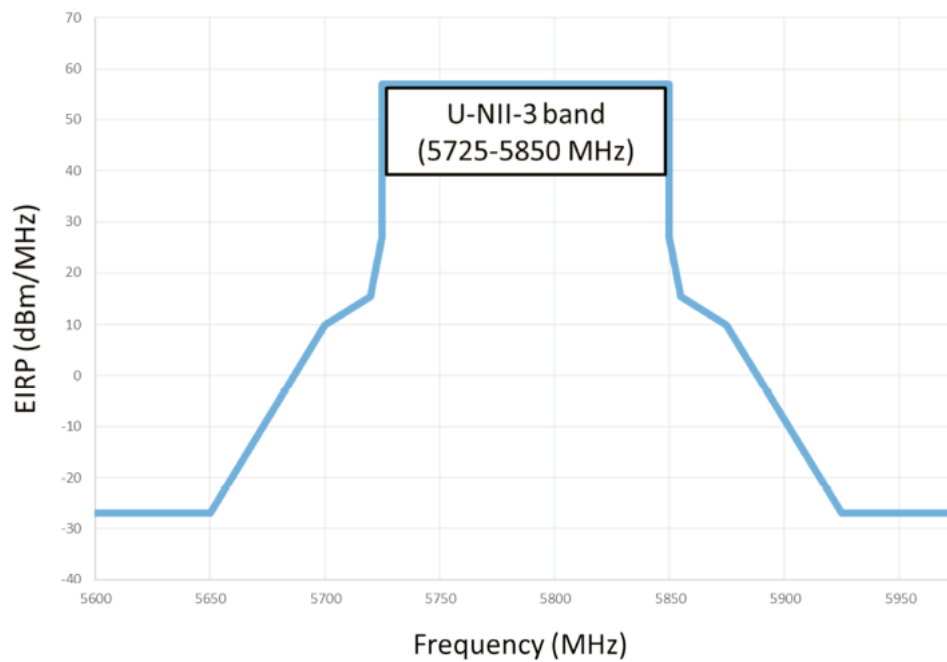


Figure 1. Proposed emission mask

9.3. Test Procedure

Same with clause 8.3 except change investigated frequency range from 5.15-5.25 GHz, 5.725-5.85 GHz.

Remark: All restriction band have been tested, and only the worse case is shown in report.

9.4. Test result

PASS. (See below detailed test result)

Note1: As specified in 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit, however, an out-of-band emission that complies with both the average and peak limits of 15.209 is not required the peak emission limit

Note2: 11a ANT 1, 11n, 11ac mode ANT 1, ANT 2 mode and MIMO mode all have been tested, the worst case in this reported.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#

D:\2018 RE1# Report Data\Q18042804-1E M2\FCC ABOVE1G 5G 5.27.EM6

Test Date : 2018-05-27

Tested By : Talent

EUT : Wi-Fi ROUTER

Model Number : M2

Power Supply : AC 120V/ 60Hz

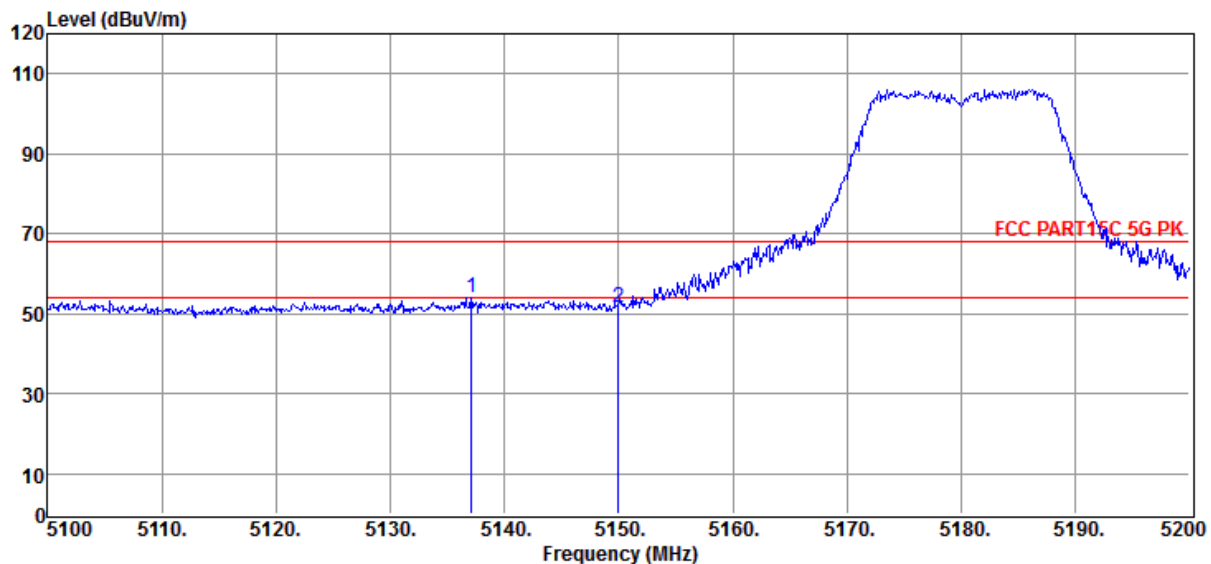
Test Mode : Tx mode

Condition : Temp:24.5'C,Humi:55%,
Press:100.1kPa

Antenna/Distance : 2017 HF907/3m/HORIZONTAL

Memo : 11A 5180

Data: 61



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV /m)	Over Limit (dB)	Detector	Polarization
1	5137.10	54.80	35.14	43.72	7.67	53.89	68.20	-14.31	Peak	HORIZONTAL
2	5150.00	52.39	35.15	43.71	7.67	51.50	68.20	-16.70	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#

D:\2018 RE1# Report Data\Q18042804-1E M2\FCC
ABOVE1G 5G 5.27.EM6

Test Date : 2018-05-27

Tested By : Talent

EUT : Wi-Fi ROUTER

Model Number : M2

Power Supply : AC 120V/ 60Hz

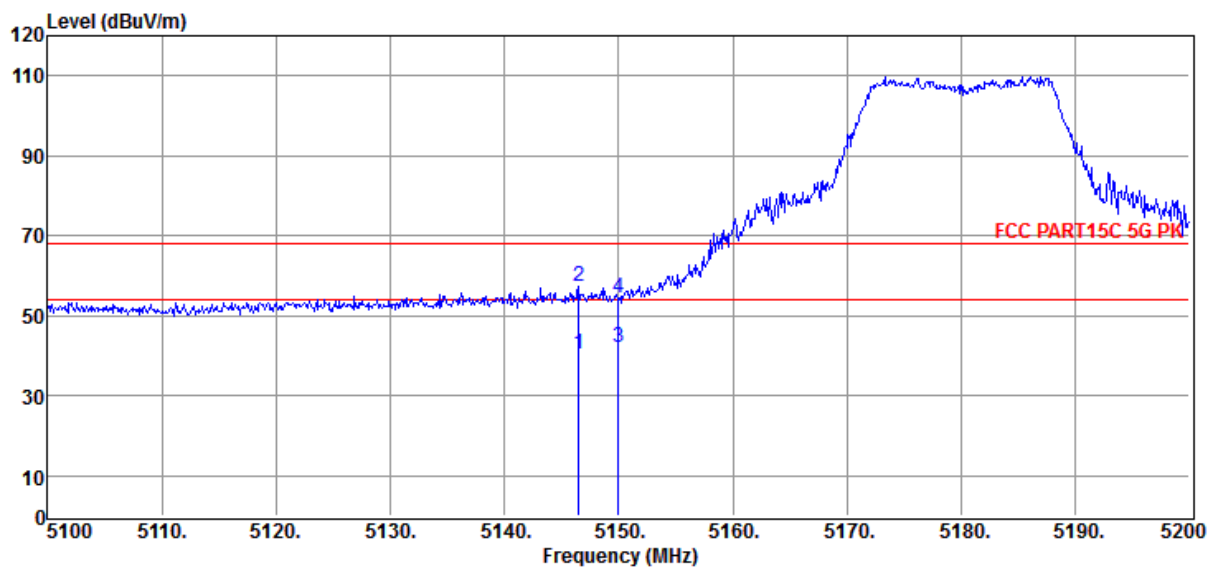
Test Mode : Tx mode

Condition : Temp:24.5'C,Humi:55%,
Press:100.1kPa

Antenna/Distance : 2017 HF907/3m/VERTICAL

Memo : 11A 5180

Data: 62



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV /m)	Over Limit (dB)	Detector	Polarization
1	5146.50	41.22	35.15	43.71	7.67	40.33	54.00	-13.67	Average	VERTICAL
2	5146.50	58.15	35.15	43.71	7.67	57.26	68.20	-10.94	Peak	VERTICAL
3	5150.00	42.83	35.15	43.71	7.67	41.94	54.00	-12.06	Average	VERTICAL
4	5150.00	55.38	35.15	43.71	7.67	54.49	68.20	-13.71	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#

D:\2018 RE1# Report Data\Q18042804-1E M2\FCC
ABOVE1G 5G 5.27.EM6

Test Date : 2018-05-27

Tested By : Talent

EUT : Wi-Fi ROUTER

Model Number : M2

Power Supply : AC 120V/ 60Hz

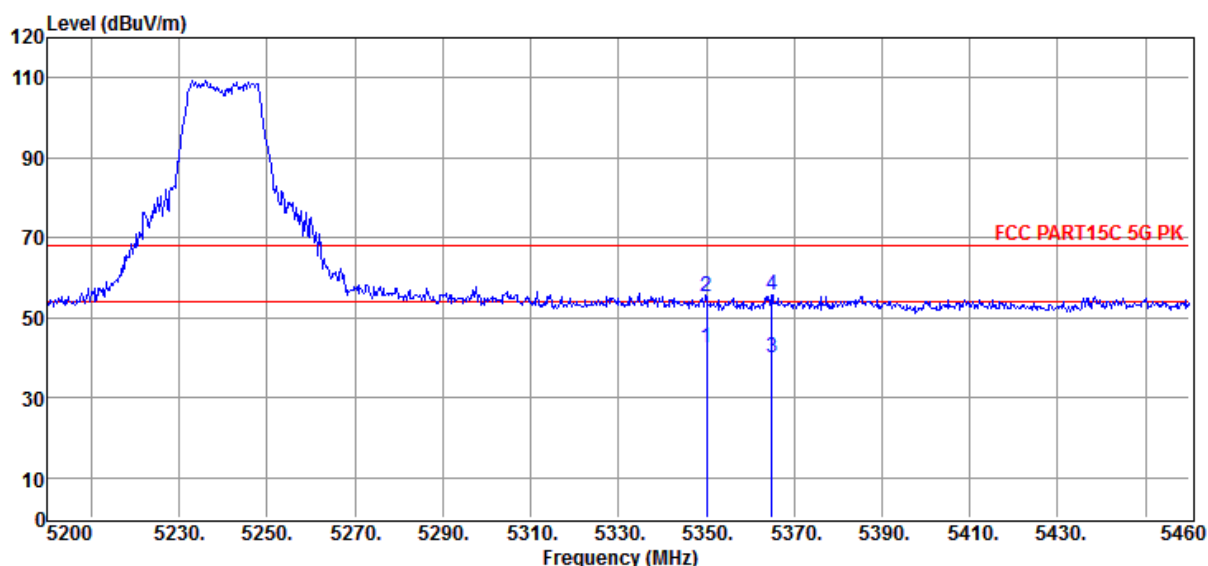
Test Mode : Tx mode

Condition : Temp:24.5'C,Humi:55%,
Press:100.1kPa

Antenna/Distance : 2017 HF907/3m/VERTICAL

Memo : 11A 5240

Data: 63



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV /m)	Over Limit (dB)	Detector	Polarization
1	5350.00	42.85	35.35	43.59	7.80	42.41	54.00	-11.59	Average	VERTICAL
2	5350.00	55.88	35.35	43.59	7.80	55.44	68.20	-12.76	Peak	VERTICAL
3	5364.84	40.21	35.36	43.58	7.81	39.80	54.00	-14.20	Average	VERTICAL
4	5364.84	56.27	35.36	43.58	7.81	55.86	68.20	-12.34	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#

D:\2018 RE1# Report Data\Q18042804-1E M2\FCC
ABOVE1G 5G 5.27.EM6

Test Date : 2018-05-27

Tested By : Talent

EUT : Wi-Fi ROUTER

Model Number : M2

Power Supply : AC 120V/ 60Hz

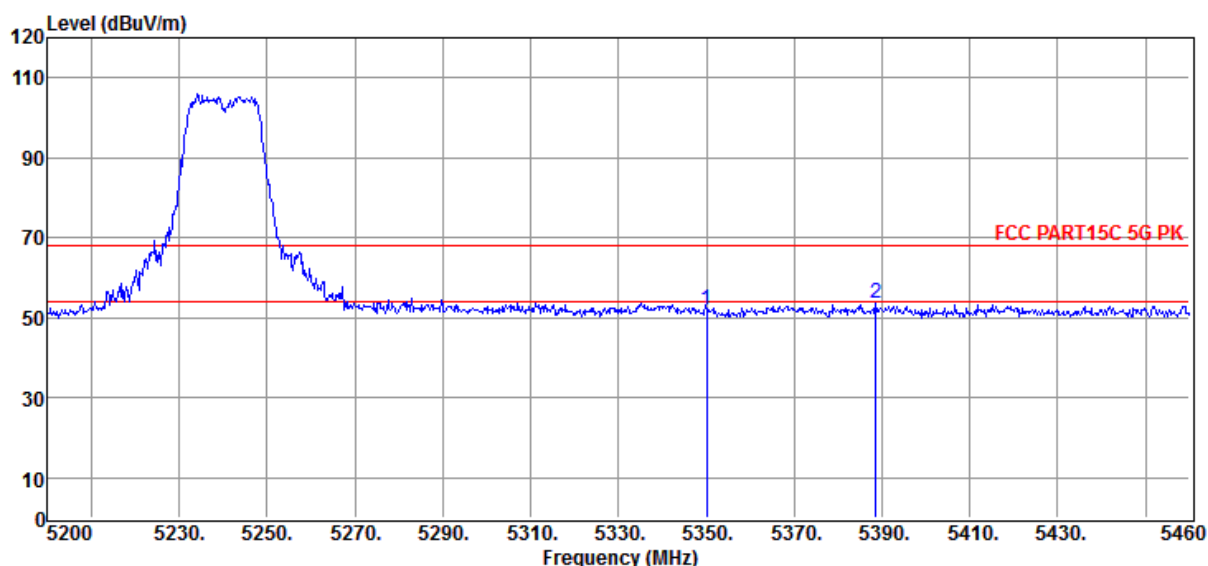
Test Mode : Tx mode

Condition : Temp:24.5'C,Humi:55%,
Press:100.1kPa

Antenna/Distance : 2017 HF907/3m/HORIZONTAL

Memo : 11A 5240

Data: 64



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV /m)	Over Limit (dB)	Detector	Polarization
1	5350.02	52.27	35.35	43.59	7.80	51.83	68.20	-16.37	Peak	HORIZONTAL
2	5388.50	53.78	35.39	43.57	7.82	53.42	68.20	-14.78	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#

D:\2018 RE1# Report Data\Q18042804-1E M2\FCC
ABOVE1G 5G 5.27.EM6

Test Date : 2018-05-27

Tested By : Talent

EUT : Wi-Fi ROUTER

Model Number : M2

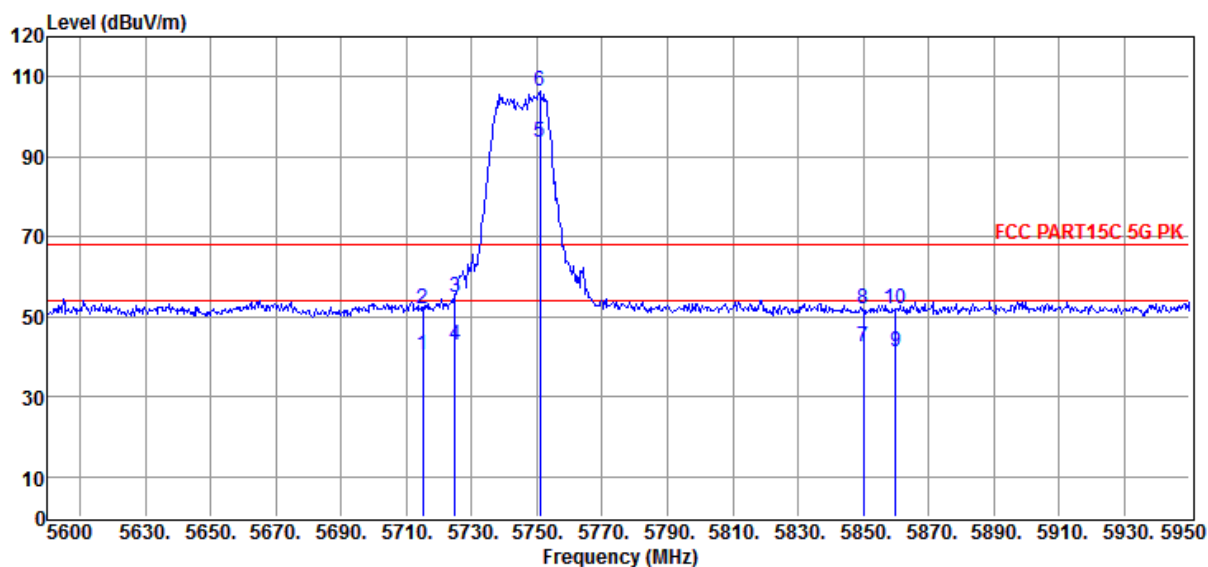
Power Supply : AC 120V/60Hz

Test Mode : Tx mode

Condition : Temp:24.5'C,Humi:55%,
Press:100.1kPa

Antenna/Distance : 2017 HF907/3m/HORIZONTAL

Memo : 11A 5745



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV /m)	Over Limit (dB)	Detector	Polarization
1	5715	42.62	35.59	43.37	8.03	42.87	109.4	-66.53	Average	VERTICAL
2	5715	53.26	35.59	43.37	8.03	53.51	109.4	-55.89	Peak	VERTICAL
3	5725	51.07	35.59	43.37	8.04	51.33	122.2	-70.87	Average	VERTICAL
4	5725	66.65	35.59	43.37	8.04	66.91	122.2	-55.29	Peak	VERTICAL
5	5751.55	96.34	35.6	43.35	8.05	96.64	125.2	-28.56	Average	VERTICAL
6	5751.55	109.06	35.6	43.35	8.05	109.36	125.2	-15.84	Peak	VERTICAL
7	5850	42.11	35.64	43.29	8.12	42.58	122.2	-79.62	Average	VERTICAL
8	5850	51.13	35.64	43.29	8.12	51.6	122.2	-70.6	Peak	VERTICAL
9	5860	41.45	35.64	43.28	8.12	41.93	109.4	-67.47	Average	VERTICAL
10	5860	51.71	35.64	43.28	8.12	52.19	109.4	-16.34	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#

D:\2018 RE1# Report Data\Q18042804-1E M2\FCC
ABOVE1G 5G 5.27.EM6

Test Date : 2018-05-27

Tested By : Talent

EUT : Wi-Fi ROUTER

Model Number : M2

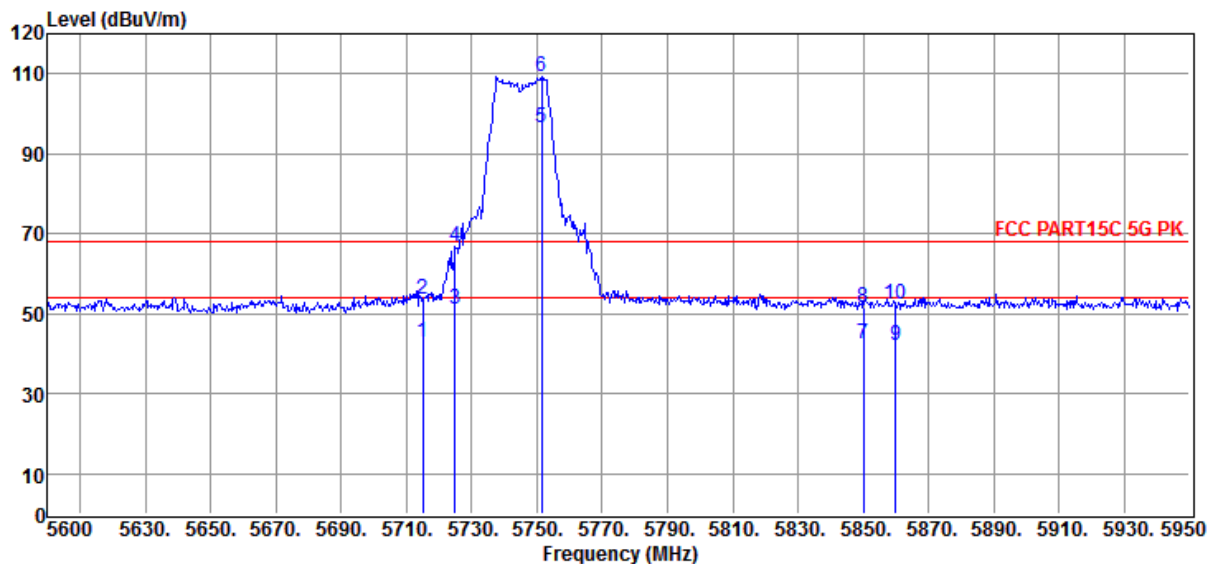
Power Supply : AC 120V/60Hz

Test Mode : Tx mode

Condition : Temp:24.5'C,Humi:55%,
Press:100.1kPa

Antenna/Distance : 2017 HF907/3m/VERTICAL

Memo : 11A 5745



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV /m)	Over Limit (dB)	Detector	Polarization
1	5715	42.62	35.59	43.37	8.03	42.87	109.4	-66.53	Average	VERTICAL
2	5715	53.26	35.59	43.37	8.03	53.51	109.4	-55.89	Peak	VERTICAL
3	5725	51.07	35.59	43.37	8.04	51.33	122.2	-70.87	Average	VERTICAL
4	5725	66.65	35.59	43.37	8.04	66.91	122.2	-55.29	Peak	VERTICAL
5	5751.55	96.34	35.6	43.35	8.05	96.64	125.2	-28.56	Average	VERTICAL
6	5751.55	109.06	35.6	43.35	8.05	109.36	125.2	-15.84	Peak	VERTICAL
7	5850	42.11	35.64	43.29	8.12	42.58	122.2	-79.62	Average	VERTICAL
8	5850	51.13	35.64	43.29	8.12	51.6	122.2	-70.6	Peak	VERTICAL
9	5860	41.45	35.64	43.28	8.12	41.93	109.4	-67.47	Average	VERTICAL
10	5860	51.71	35.64	43.28	8.12	52.19	109.4	-16.34	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#

D:\2018 RE1# Report Data\Q18042804-1E M2\FCC
ABOVE1G 5G 5.27.EM6

Test Date : 2018-05-27

Tested By : Talent

EUT : Wi-Fi ROUTER

Model Number : M2

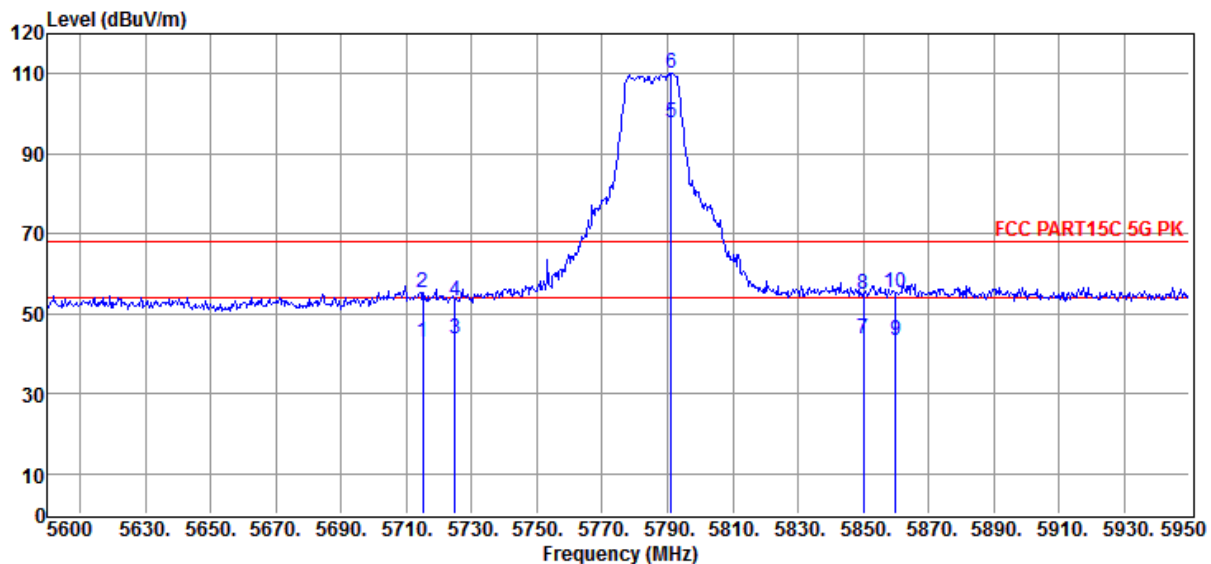
Power Supply : AC 120V/60Hz

Test Mode : Tx mode

Condition : Temp:24.5'C,Humi:55%,
Press:100.1kPa

Antenna/Distance : 2017 HF907/3m/VERTICAL

Memo : 11A 5785



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV /m)	Over Limit (dB)	Detector	Polarization
1	5715	42.74	35.59	43.37	8.03	42.99	109.4	-66.41	Average	VERTICAL
2	5715	54.92	35.59	43.37	8.03	55.17	109.4	-54.23	Peak	VERTICAL
3	5725	43.57	35.59	43.37	8.04	43.83	122.2	-78.37	Average	VERTICAL
4	5725	52.74	35.59	43.37	8.04	53	122.2	-69.20	Peak	VERTICAL
5	5791.1	97.25	35.62	43.33	8.08	97.62	125.2	-27.58	Average	VERTICAL
6	5791.1	109.9	35.62	43.33	8.08	110.27	125.2	-14.93	Peak	VERTICAL
7	5850	43.25	35.64	43.29	8.12	43.72	122.2	-78.48	Average	VERTICAL
8	5850	54.27	35.64	43.29	8.12	54.74	122.2	-67.46	Peak	VERTICAL
9	5860	42.86	35.64	43.28	8.12	43.34	109.4	-66.06	Average	VERTICAL
10	5860	54.64	35.64	43.28	8.12	55.12	109.4	-16.34	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#

D:\2018 RE1# Report Data\Q18042804-1E M2\FCC
ABOVE1G 5G 5.27.EM6

Test Date : 2018-05-27

Tested By : Talent

EUT : Wi-Fi ROUTER

Model Number : M2

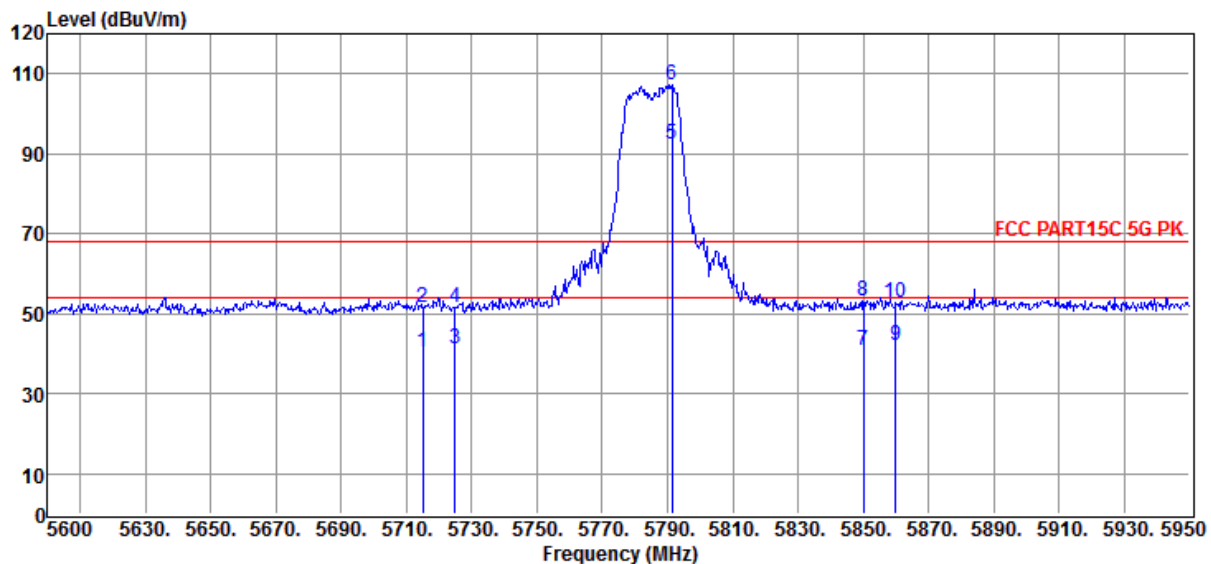
Power Supply : AC 120V/60Hz

Test Mode : Tx mode

Condition : Temp:24.5°C,Humi:55%,
Press:100.1kPa

Antenna/Distance : 2017 HF907/3m/HORIZONTAL

Memo : 11A 5785



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV /m)	Over Limit (dB)	Detector	Polarization
1	5715	40.13	35.59	43.37	8.03	40.38	109.4	-69.02	Average	HORIZONTAL
2	5715	51.38	35.59	43.37	8.03	51.63	109.4	-57.77	Peak	HORIZONTAL
3	5725	40.89	35.59	43.37	8.04	41.15	122.2	-81.05	Average	HORIZONTAL
4	5725	51.14	35.59	43.37	8.04	51.4	122.2	-70.80	Peak	HORIZONTAL
5	5791.45	92.04	35.62	43.33	8.08	92.41	125.2	-32.79	Average	HORIZONTAL
6	5791.45	106.67	35.62	43.33	8.08	107.04	125.2	-18.16	Peak	HORIZONTAL
7	5850	40.25	35.64	43.29	8.12	40.72	122.2	-81.48	Average	HORIZONTAL
8	5850	52.66	35.64	43.29	8.12	53.13	122.2	-69.07	Peak	HORIZONTAL
9	5860	41.42	35.64	43.28	8.12	41.9	109.4	-67.5	Average	HORIZONTAL
10	5860	52.18	35.64	43.28	8.12	52.66	109.4	-16.34	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#

D:\2018 RE1# Report Data\Q18042804-1E M2\FCC
ABOVE1G 5G 5.27.EM6

Test Date : 2018-05-27

Tested By : Talent

EUT : Wi-Fi ROUTER

Model Number : M2

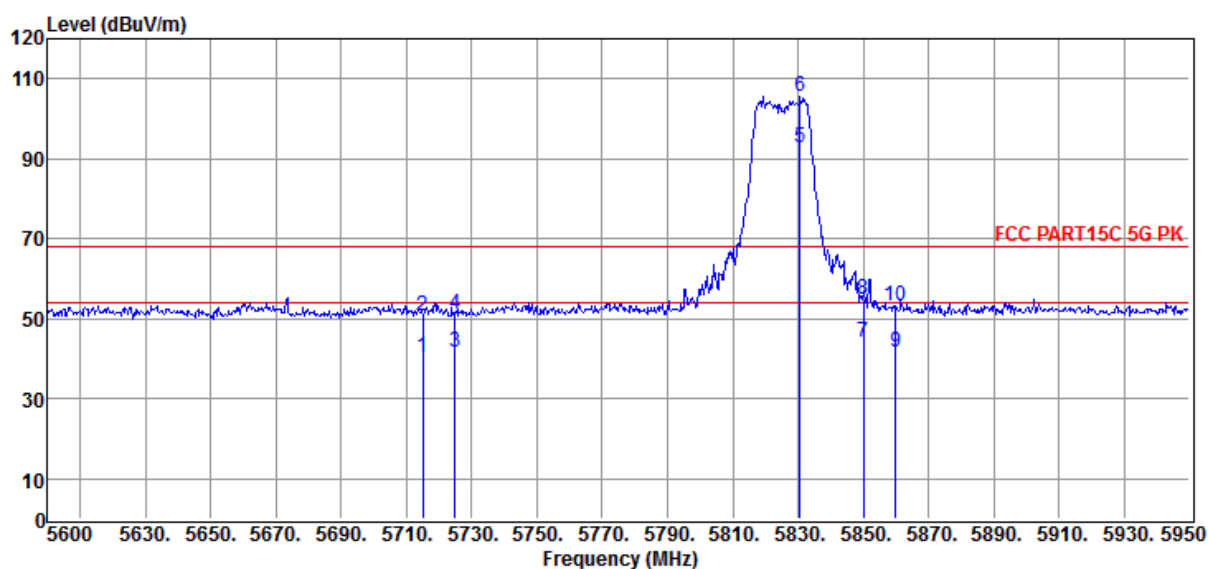
Power Supply : AC 120V/60Hz

Test Mode : Tx mode

Condition : Temp:24.5'C,Humi:55%,
Press:100.1kPa

Antenna/Distance : 2017 HF907/3m/HORIZONTAL

Memo : 11A 5825



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV /m)	Over Limit (dB)	Detector	Polarization
1	5715.00	40.12	35.59	43.37	8.03	40.37	109.4	-69.03	Average	HORIZONTAL
2	5715.00	50.38	35.59	43.37	8.03	50.63	109.4	-58.77	Peak	HORIZONTAL
3	5725.00	41.25	35.59	43.37	8.04	41.51	122.2	-80.69	Average	HORIZONTAL
4	5725.00	51.07	35.59	43.37	8.04	51.33	122.2	-70.87	Peak	HORIZONTAL
5	5830.65	92.46	35.63	43.30	8.10	92.89	125.2	-32.31	Average	HORIZONTAL
6	5830.65	105.17	35.63	43.30	8.10	105.60	125.2	-19.60	Peak	HORIZONTAL
7	5850.00	43.85	35.64	43.29	8.12	44.32	122.2	-77.88	Average	HORIZONTAL
8	5850.00	54.46	35.64	43.29	8.12	54.93	122.2	-67.27	Peak	HORIZONTAL
9	5860.00	41.23	35.64	43.28	8.12	41.71	109.4	-67.69	Average	HORIZONTAL
10	5860.00	52.91	35.64	43.28	8.12	53.39	109.4	-16.34	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#

D:\2018 RE1# Report Data\Q18042804-1E M2\FCC
ABOVE1G 5G 5.27.EM6

Test Date : 2018-05-27

Tested By : Talent

EUT : Wi-Fi ROUTER

Model Number : M2

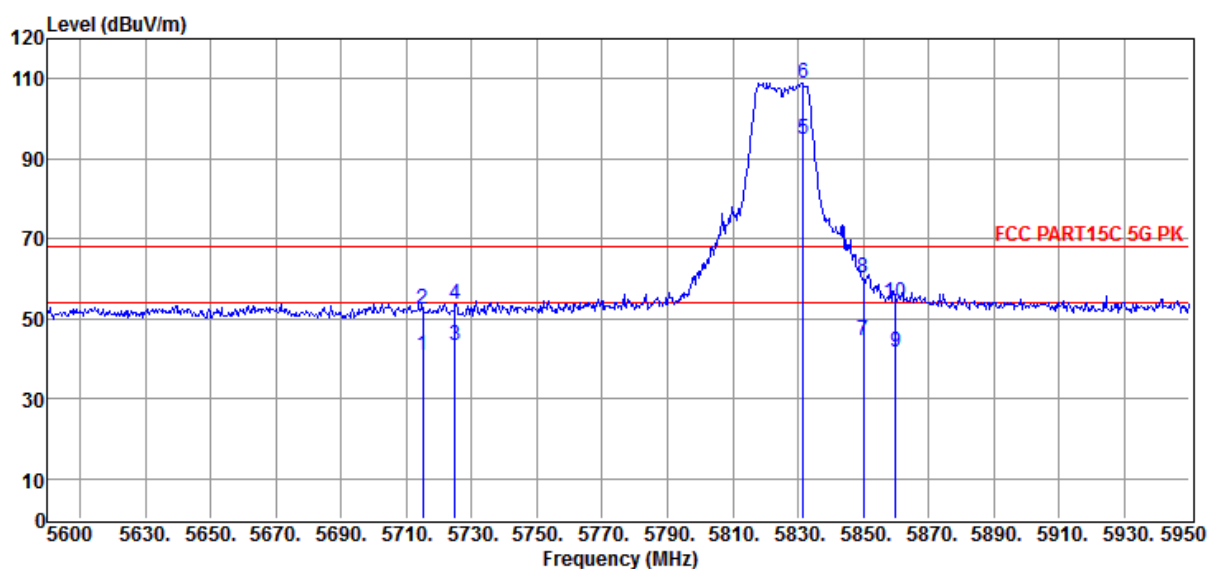
Power Supply : AC 120V/60Hz

Test Mode : Tx mode

Condition : Temp:24.5'C,Humi:55%,
Press:100.1kPa

Antenna/Distance : 2017 HF907/3m/VERTICAL

Memo : 11A 5825



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV /m)	Over Limit (dB)	Detector	Polarization
1	5715.00	40.52	35.59	43.37	8.03	40.77	109.4	-68.63	Average	VERTICAL
2	5715.00	52.31	35.59	43.37	8.03	52.56	109.4	-56.84	Peak	VERTICAL
3	5725.00	43.12	35.59	43.37	8.04	43.38	122.2	-78.82	Average	VERTICAL
4	5725.00	53.42	35.59	43.37	8.04	53.68	122.2	-68.52	Peak	VERTICAL
5	5831.70	94.27	35.63	43.30	8.10	94.70	125.2	-30.50	Average	VERTICAL
6	5831.70	108.47	35.63	43.30	8.10	108.90	125.2	-16.30	Peak	VERTICAL
7	5850.00	44.23	35.64	43.29	8.12	44.70	122.2	-77.50	Average	VERTICAL
8	5850.00	59.76	35.64	43.29	8.12	60.23	122.2	-61.97	Peak	VERTICAL
9	5860.00	40.97	35.64	43.28	8.12	41.45	109.4	-67.95	Average	VERTICAL
10	5860.00	53.71	35.64	43.28	8.12	54.19	109.4	-16.34	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#

D:\2018 RE1# Report Data\Q18042804-1E M2\FCC
ABOVE1G 5G 5.27.EM6

Test Date : 2018-05-27

Tested By : Talent

EUT : Wi-Fi ROUTER

Model Number : M2

Power Supply : AC 120V/60Hz

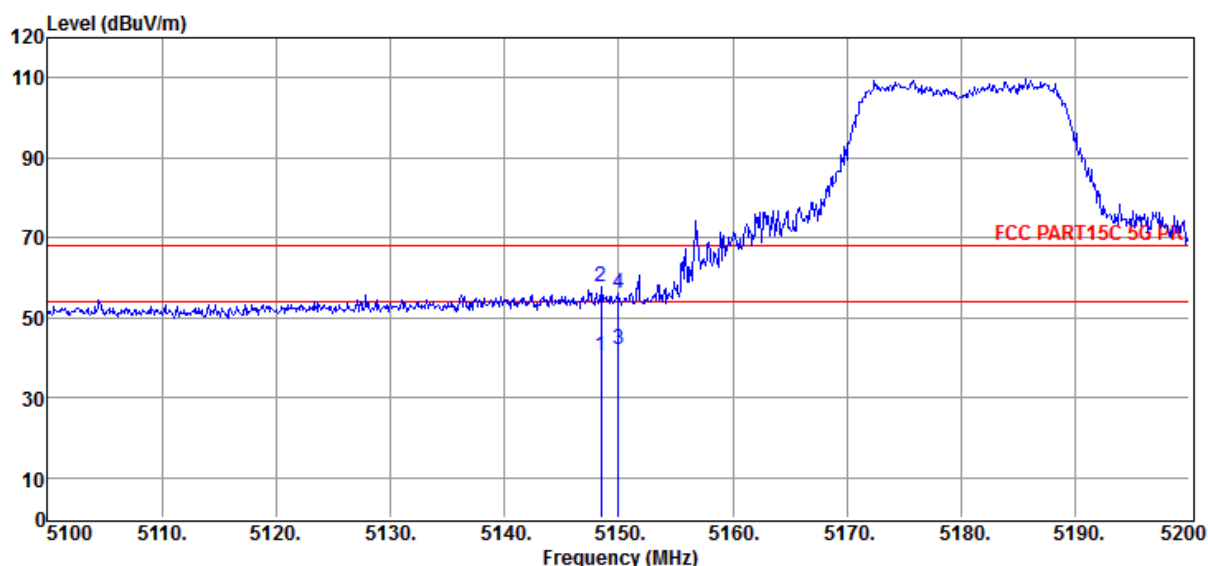
Test Mode : Tx mode

Condition : Temp:24.5'C,Humi:55%,
Press:100.1kPa

Antenna/Distance : 2017 HF907/3m/VERTICAL

Memo : 11N20 5180

Data: 71



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5148.50	41.24	35.15	43.71	7.67	40.35	54.00	-13.65	Average	VERTICAL
2	5148.50	58.46	35.15	43.71	7.67	57.57	68.20	-10.63	Peak	VERTICAL
3	5150.00	42.96	35.15	43.71	7.67	42.07	54.00	-11.93	Average	VERTICAL
4	5150.00	56.81	35.15	43.71	7.67	55.92	68.20	-12.28	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#

D:\2018 RE1# Report Data\Q18042804-1E M2\FCC ABOVE1G 5G 5.27.EM6

Test Date : 2018-05-27

Tested By : Talent

EUT : Wi-Fi ROUTER

Model Number : M2

Power Supply : AC 120V/60Hz

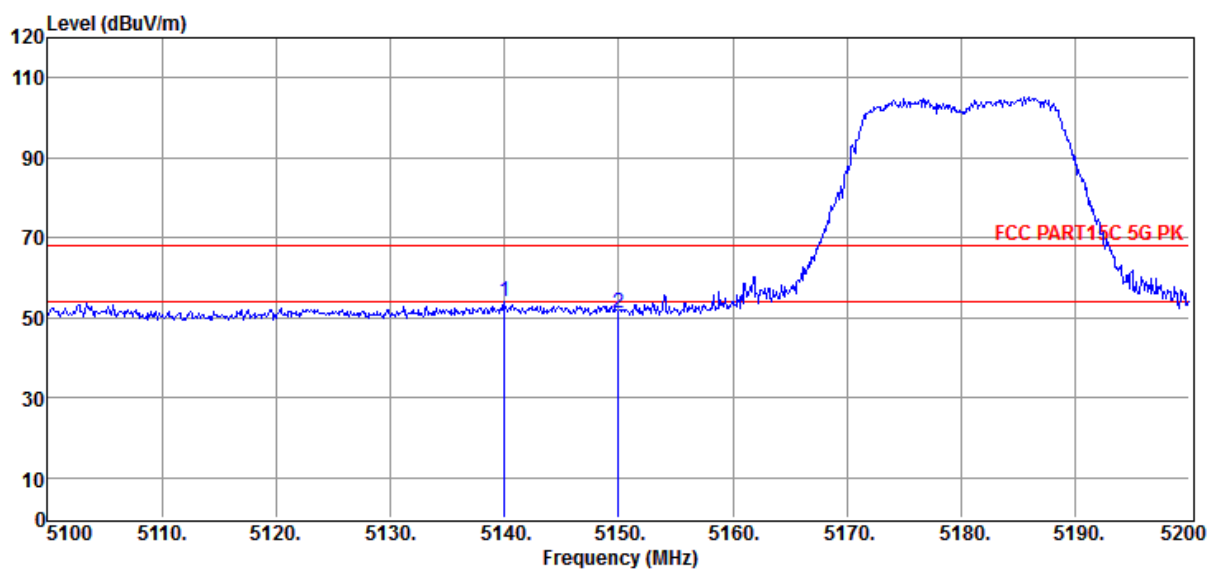
Test Mode : Tx mode

Condition : Temp:24.5'C,Humi:55%,
Press:100.1kPa

Antenna/Distance : 2017 HF907/3m/HORIZONTAL

Memo : 11N20 5180

Data: 72



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV /m)	Over Limit (dB)	Detector	Polarization
1	5140.00	54.92	35.14	43.72	7.67	54.01	68.20	-14.19	Peak	HORIZONTAL
2	5150.00	51.85	35.15	43.71	7.67	50.96	68.20	-17.24	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

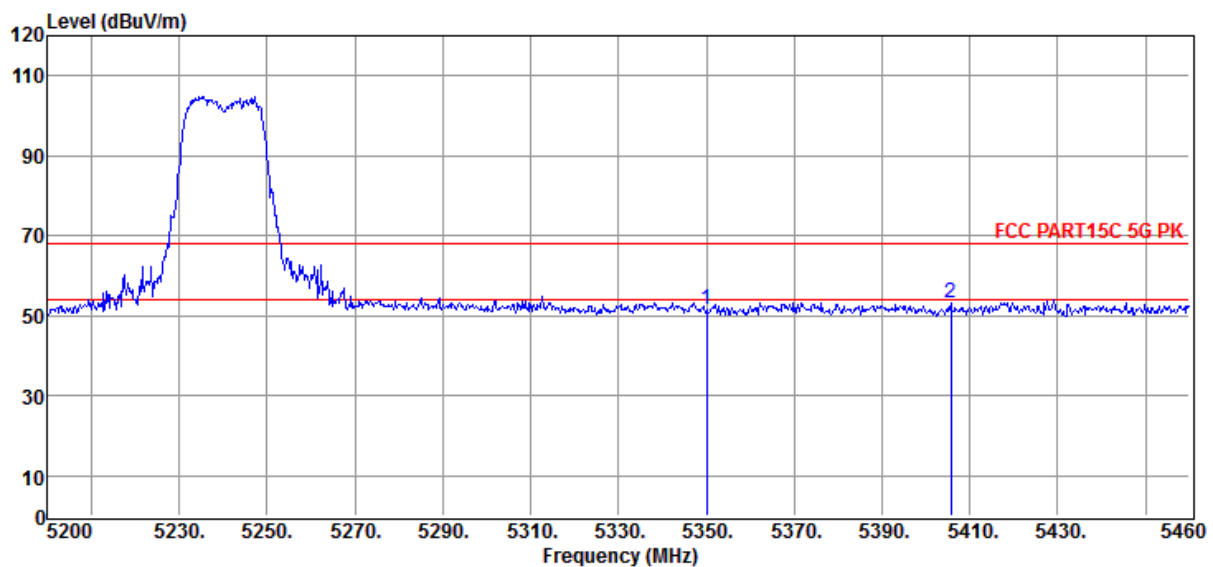
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 1#	D:\2018 RE1# Report Data\Q18042804-1E M2\FCC ABOVE1G 5G 5.27.EM6
Test Date	: 2018-05-27	Tested By : Talent
EUT	: Wi-Fi ROUTER	Model Number : M2
Power Supply	: AC 120V/60Hz	Test Mode : Tx mode
Condition	: Temp:24.5°C,Humi:55%, Press:100.1kPa	Antenna/Distance : 2017 HF907/3m/HORIZONTAL
Memo	: 11N20 5240	

Data: 73



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5350.02	52.02	35.35	43.59	7.80	51.58	68.20	-16.62	Peak	HORIZONTAL
2	5405.66	53.66	35.41	43.56	7.84	53.35	68.20	-14.85	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#

D:\2018 RE1# Report Data\Q18042804-1E M2\FCC
ABOVE1G 5G 5.27.EM6

Test Date : 2018-05-27

Tested By : Talent

EUT : Wi-Fi ROUTER

Model Number : M2

Power Supply : AC 120V/60Hz

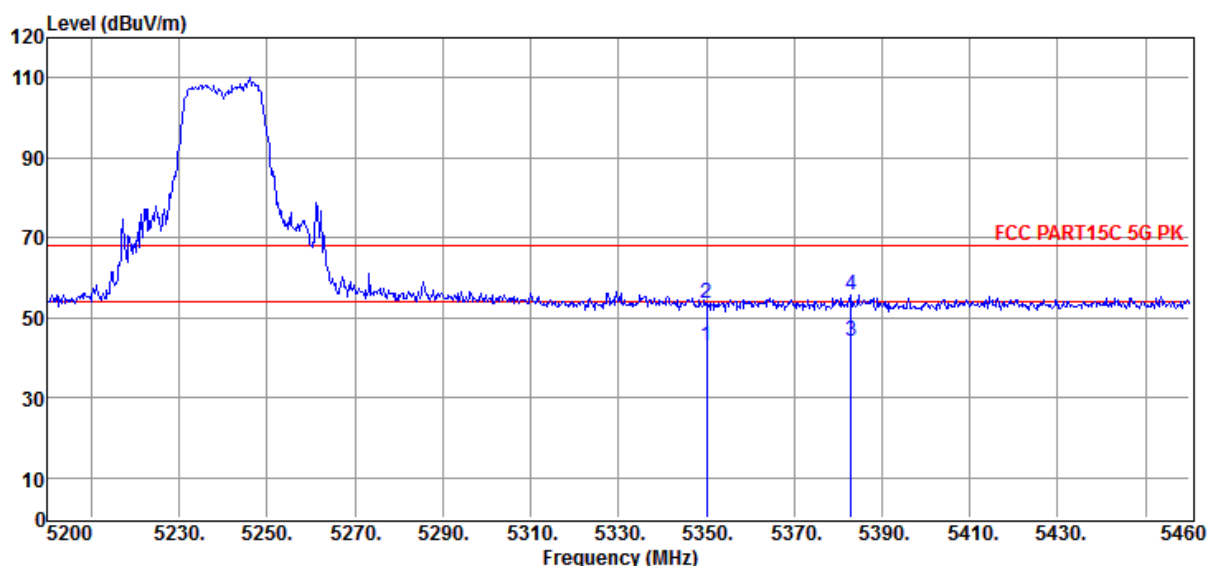
Test Mode : Tx mode

Condition : Temp:24.5°C,Humi:55%,
Press:100.1kPa

Antenna/Distance : 2017 HF907/3m/VERTICAL

Memo : 11N20 5240

Data: 74



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV /m)	Over Limit (dB)	Detector	Polarization
1	5350.00	43.52	35.35	43.59	7.80	43.08	54.00	-10.92	Average	VERTICAL
2	5350.00	53.88	35.35	43.59	7.80	53.44	68.20	-14.76	Peak	VERTICAL
3	5383.04	44.33	35.38	43.57	7.82	43.96	54.00	-10.04	Average	VERTICAL
4	5383.04	55.90	35.38	43.57	7.82	55.53	68.20	-12.67	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#

D:\2018 RE1# Report Data\Q18042804-1E M2\FCC
ABOVE1G 5G 5.27.EM6

Test Date : 2018-05-27

Tested By : Talent

EUT : Wi-Fi ROUTER

Model Number : M2

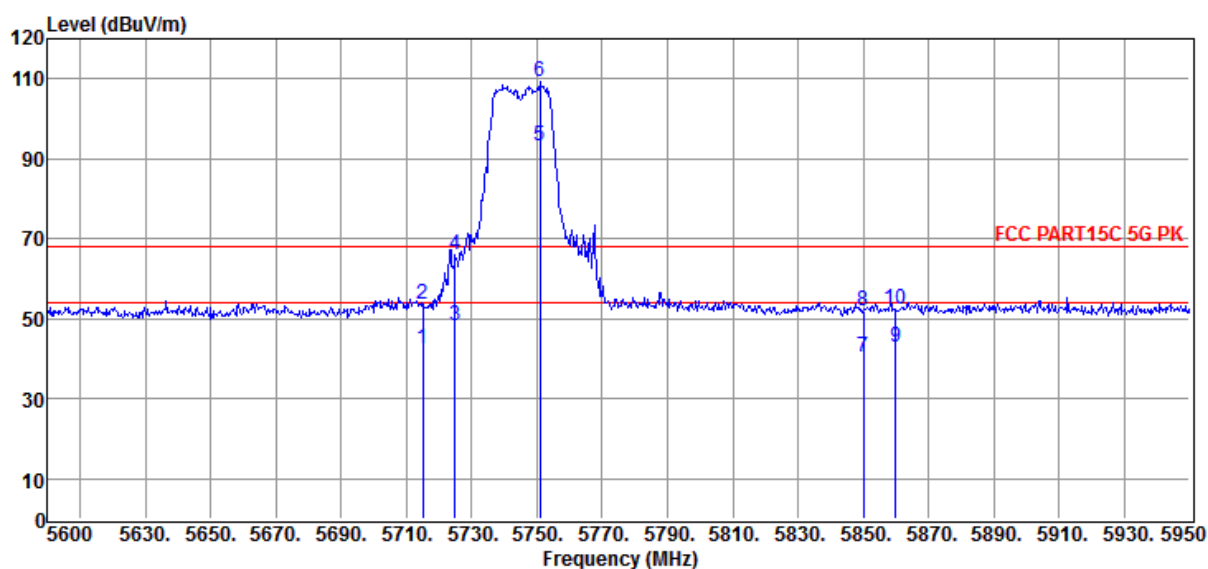
Power Supply : AC 120V/60Hz

Test Mode : Tx mode

Condition : Temp:24.5'C,Humi:55%,
Press:100.1kPa

Antenna/Distance : 2017 HF907/3m/VERTICAL

Memo : 11N20 5745



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV /m)	Over Limit (dB)	Detector	Polarization
1	5715.00	42.05	35.59	43.37	8.03	42.30	109.4	-67.10	Average	VERTICAL
2	5715.00	53.27	35.59	43.37	8.03	53.52	109.4	-55.88	Peak	VERTICAL
3	5725.00	48.12	35.59	43.37	8.04	48.38	122.2	-73.82	Average	VERTICAL
4	5725.00	65.60	35.59	43.37	8.04	65.86	122.2	-56.34	Peak	VERTICAL
5	5750.85	92.77	35.60	43.35	8.05	93.07	125.2	-32.13	Average	VERTICAL
6	5750.85	109.09	35.60	43.35	8.05	109.39	125.2	-15.81	Peak	VERTICAL
7	5850.00	40.15	35.64	43.29	8.12	40.62	122.2	-81.58	Average	VERTICAL
8	5850.00	51.47	35.64	43.29	8.12	51.94	122.2	-70.26	Peak	VERTICAL
9	5860.00	42.34	35.64	43.28	8.12	42.82	109.4	-66.58	Average	VERTICAL
10	5860.00	51.94	35.64	43.28	8.12	52.42	109.4	-16.34	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#

D:\2018 RE1# Report Data\Q18042804-1E M2\FCC
ABOVE1G 5G 5.27.EM6

Test Date : 2018-05-27

Tested By : Talent

EUT : Wi-Fi ROUTER

Model Number : M2

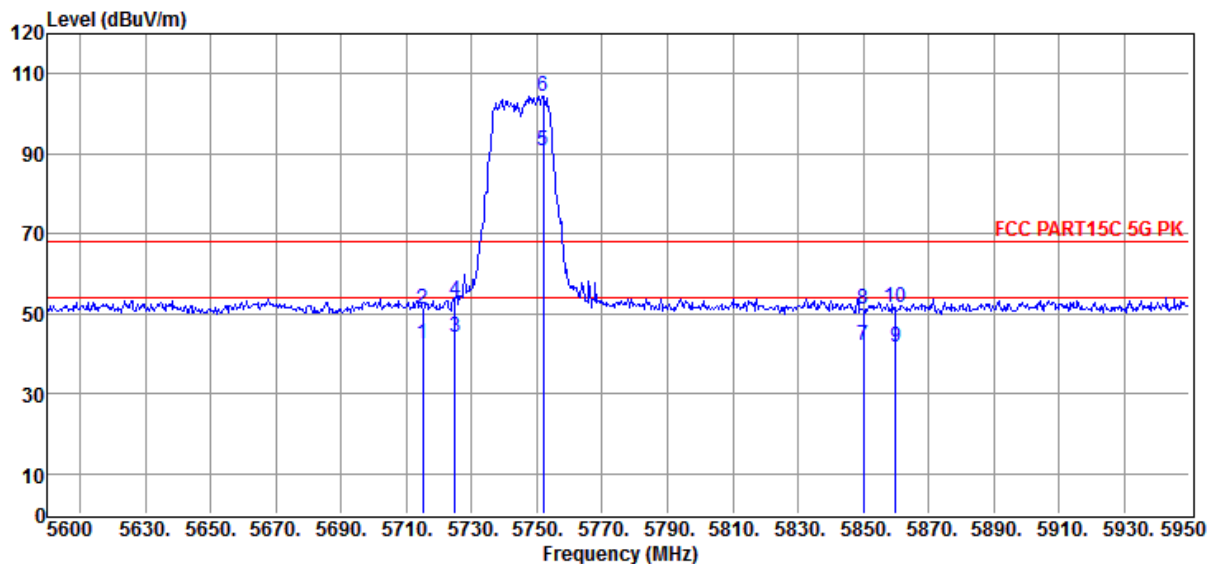
Power Supply : AC 120V/60Hz

Test Mode : Tx mode

Condition : Temp:24.5'C,Humi:55%,
Press:100.1kPa

Antenna/Distance : 2017 HF907/3m/HORIZONTAL

Memo : 11N20 5745



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV /m)	Over Limit (dB)	Detector	Polarization
1	5715.00	42.36	35.59	43.37	8.03	42.61	109.4	-66.79	Average	HORIZONTAL
2	5715.00	51.07	35.59	43.37	8.03	51.32	109.4	-58.08	Peak	HORIZONTAL
3	5725.00	43.70	35.59	43.37	8.04	43.96	122.2	-78.24	Average	HORIZONTAL
4	5725.00	53.08	35.59	43.37	8.04	53.34	122.2	-68.86	Peak	HORIZONTAL
5	5751.90	90.46	35.60	43.35	8.05	90.76	125.2	-34.44	Average	HORIZONTAL
6	5751.90	103.90	35.60	43.35	8.05	104.20	125.2	-21.00	Peak	HORIZONTAL
7	5850.00	41.75	35.64	43.29	8.12	42.22	122.2	-79.98	Average	HORIZONTAL
8	5850.00	50.74	35.64	43.29	8.12	51.21	122.2	-70.99	Peak	HORIZONTAL
9	5860.00	41.28	35.64	43.28	8.12	41.76	109.4	-67.64	Average	HORIZONTAL
10	5860.00	51.25	35.64	43.28	8.12	51.73	109.4	-16.34	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#

D:\2018 RE1# Report Data\Q18042804-1E M2\FCC
ABOVE1G 5G 5.27.EM6

Test Date : 2018-05-27

Tested By : Talent

EUT : Wi-Fi ROUTER

Model Number : M2

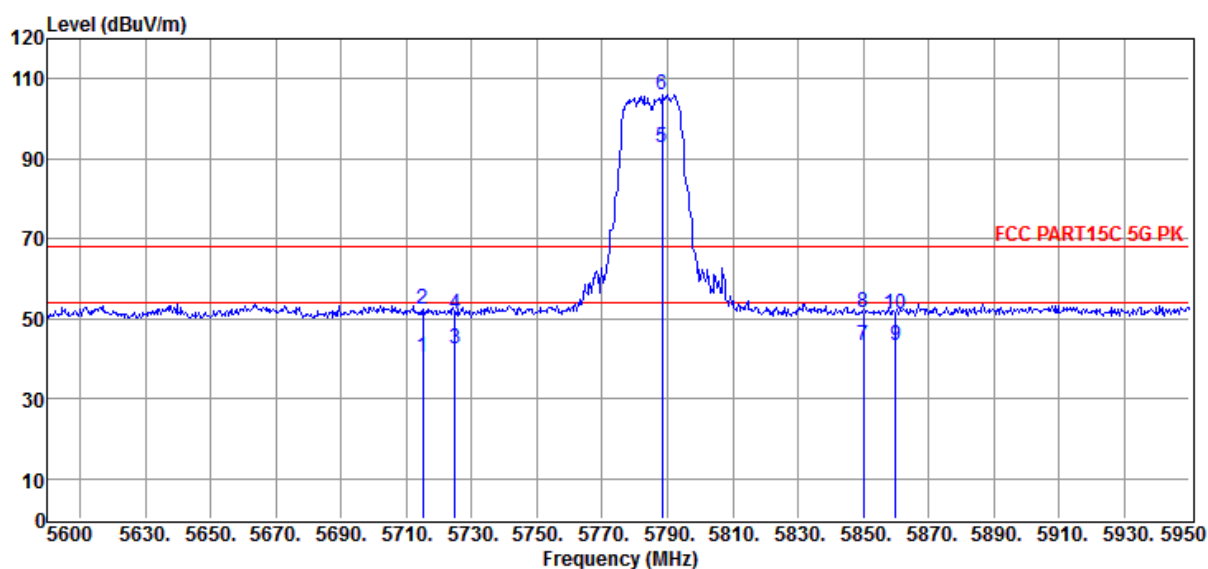
Power Supply : AC 120V/60Hz

Test Mode : Tx mode

Condition : Temp:24.5'C,Humi:55%,
Press:100.1kPa

Antenna/Distance : 2017 HF907/3m/HORIZONTAL

Memo : 11N20 5785



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV /m)	Over Limit (dB)	Detector	Polarization
1	5715.00	40.12	35.59	43.37	8.03	40.37	109.4	-69.03	Average	HORIZONTAL
2	5715.00	51.99	35.59	43.37	8.03	52.24	109.4	-57.16	Peak	HORIZONTAL
3	5725.00	42.36	35.59	43.37	8.04	42.62	122.2	-79.58	Average	HORIZONTAL
4	5725.00	50.67	35.59	43.37	8.04	50.93	122.2	-71.27	Peak	HORIZONTAL
5	5788.30	92.42	35.62	43.33	8.08	92.79	125.2	-32.41	Average	HORIZONTAL
6	5788.30	105.71	35.62	43.33	8.08	106.08	125.2	-19.12	Peak	HORIZONTAL
7	5850.00	42.63	35.64	43.29	8.12	43.10	122.2	-79.10	Average	HORIZONTAL
8	5850.00	51.14	35.64	43.29	8.12	51.61	122.2	-70.59	Peak	HORIZONTAL
9	5860.00	42.75	35.64	43.28	8.12	43.23	109.4	-66.17	Average	HORIZONTAL
10	5860.00	50.77	35.64	43.28	8.12	51.25	109.4	-16.34	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#

D:\2018 RE1# Report Data\Q18042804-1E M2\FCC
ABOVE1G 5G 5.27.EM6

Test Date : 2018-05-27

Tested By : Talent

EUT : Wi-Fi ROUTER

Model Number : M2

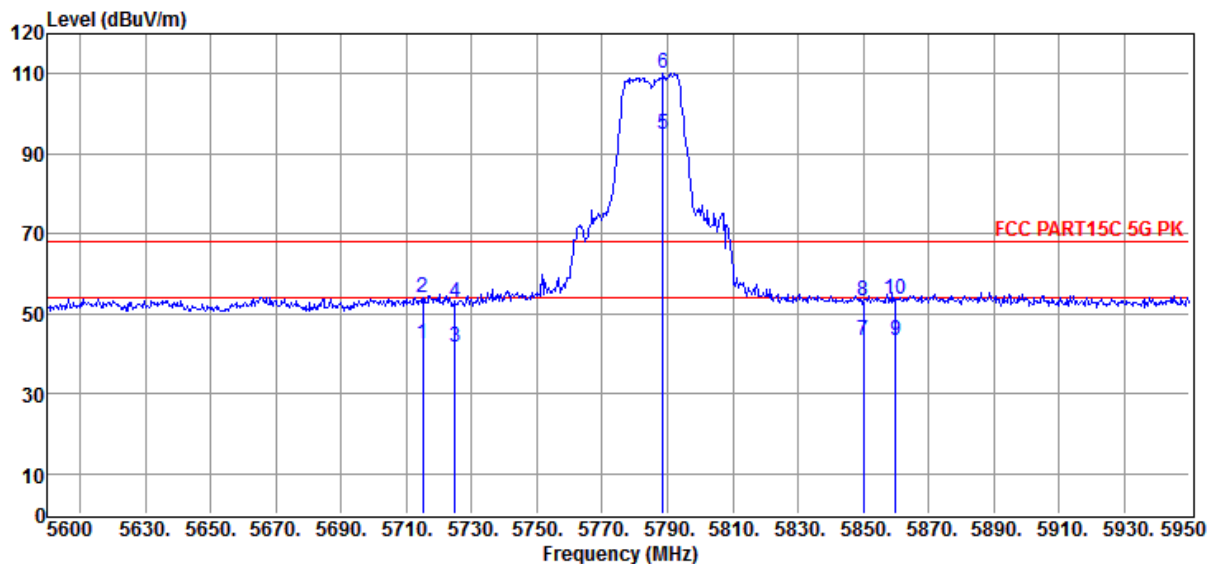
Power Supply : AC 120V/60Hz

Test Mode : Tx mode

Condition : Temp:24.5'C,Humi:55%,
Press:100.1kPa

Antenna/Distance : 2017 HF907/3m/VERTICAL

Memo : 11N20 5785



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV /m)	Over Limit (dB)	Detector	Polarization
1	5715	42.36	35.59	43.37	8.03	42.61	109.4	-66.79	Average	VERTICAL
2	5715	53.83	35.59	43.37	8.03	54.08	109.4	-55.32	Peak	VERTICAL
3	5725	41.36	35.59	43.37	8.04	41.62	122.2	-80.58	Average	VERTICAL
4	5725	52.36	35.59	43.37	8.04	52.62	122.2	-69.58	Peak	VERTICAL
5	5788.65	94.35	35.62	43.33	8.08	94.72	125.2	-30.48	Average	VERTICAL
6	5788.65	109.84	35.62	43.33	8.08	110.21	125.2	-14.99	Peak	VERTICAL
7	5850	42.96	35.64	43.29	8.12	43.43	122.2	-78.77	Average	VERTICAL
8	5850	52.91	35.64	43.29	8.12	53.38	122.2	-68.82	Peak	VERTICAL
9	5860	42.74	35.64	43.28	8.12	43.22	109.4	-66.18	Average	VERTICAL
10	5860	53.02	35.64	43.28	8.12	53.5	109.4	-16.34	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#

D:\2018 RE1# Report Data\Q18042804-1E M2\FCC
ABOVE1G 5G 5.27.EM6

Test Date : 2018-05-27

Tested By : Talent

EUT : Wi-Fi ROUTER

Model Number : M2

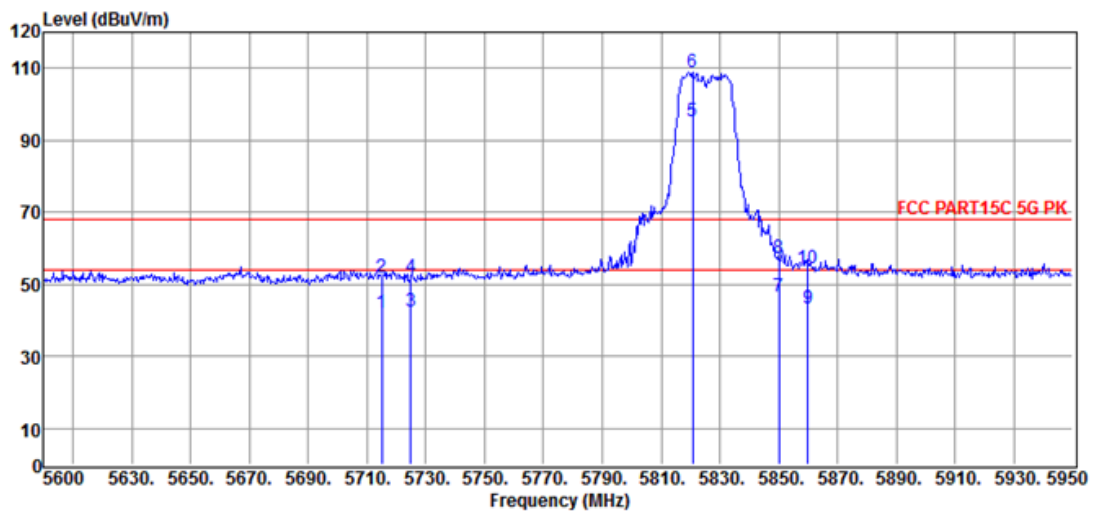
Power Supply : AC 120V/60Hz

Test Mode : Tx mode

Condition : Temp:24.5°C,Humi:55%,
Press:100.1kPa

Antenna/Distance : 2017 HF907/3m/VERTICAL

Memo : 11N20 5825



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5715	41.86	35.59	43.37	8.03	42.11	109.4	-67.29	Average	HORIZONTAL
2	5715	51.52	35.59	43.37	8.03	51.77	109.4	-57.63	Peak	HORIZONTAL
3	5725	42.12	35.59	43.37	8.04	42.38	122.2	-79.82	Average	HORIZONTAL
4	5725	51.82	35.59	43.37	8.04	52.08	122.2	-70.12	Peak	HORIZONTAL
5	5788.65	94.78	35.62	43.33	8.08	95.15	125.2	-30.05	Average	HORIZONTAL
6	5788.65	108.57	35.62	43.33	8.08	108.94	125.2	-16.26	Peak	HORIZONTAL
7	5850	46.23	35.64	43.29	8.12	46.7	122.2	-75.50	Average	HORIZONTAL
8	5850	56.96	35.64	43.29	8.12	57.43	122.2	-64.77	Peak	HORIZONTAL
9	5860	42.96	35.64	43.28	8.12	43.44	109.4	-65.96	Average	HORIZONTAL
10	5860	54.06	35.64	43.28	8.12	54.54	109.4	-16.34	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#

D:\2018 RE1# Report Data\Q18042804-1E M2\FCC
ABOVE1G 5G 5.27.EM6

Test Date : 2018-05-27

Tested By : Talent

EUT : Wi-Fi ROUTER

Model Number : M2

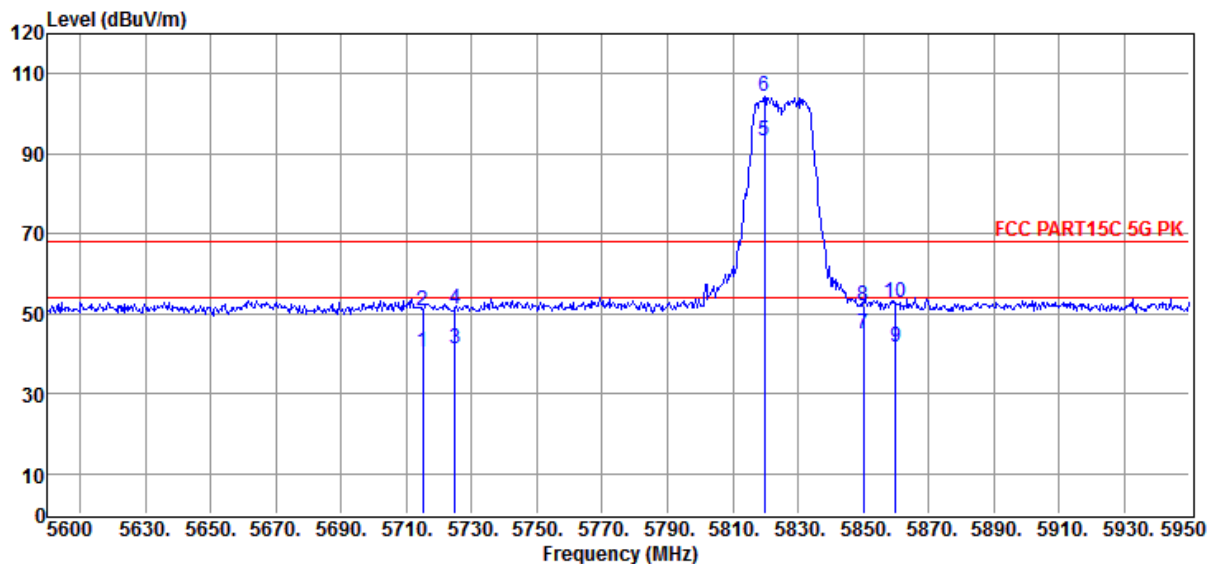
Power Supply : AC 120V/60Hz

Test Mode : Tx mode

Condition : Temp:24.5°C,Humi:55%,
Press:100.1kPa

Antenna/Distance : 2017 HF907/3m/HORIZONTAL

Memo : 11N20 5825



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV /m)	Over Limit (dB)	Detector	Polarization
1	5715	40.36	35.59	43.37	8.03	40.61	109.4	-68.79	Average	HORIZONTAL
2	5715	50.6	35.59	43.37	8.03	50.85	109.4	-58.55	Peak	HORIZONTAL
3	5725	40.85	35.59	43.37	8.04	41.11	122.2	-81.09	Average	HORIZONTAL
4	5725	50.94	35.59	43.37	8.04	51.2	122.2	-71.00	Peak	HORIZONTAL
5	5819.8	92.73	35.63	43.31	8.1	93.15	125.2	-32.05	Average	HORIZONTAL
6	5819.8	103.8	35.63	43.31	8.1	104.22	125.2	-20.98	Peak	HORIZONTAL
7	5850	44.39	35.64	43.29	8.12	44.86	122.2	-77.34	Average	HORIZONTAL
8	5850	51.31	35.64	43.29	8.12	51.78	122.2	-70.42	Peak	HORIZONTAL
9	5860	40.98	35.64	43.28	8.12	41.46	109.4	-67.94	Average	HORIZONTAL
10	5860	52.21	35.64	43.28	8.12	52.69	109.4	-16.34	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#

D:\2018 RE1# Report Data\Q18042804-1E M2\FCC
ABOVE1G 5G 5.27.EM6

Test Date : 2018-05-27

Tested By : Talent

EUT : Wi-Fi ROUTER

Model Number : M2

Power Supply : AC 120V/60Hz

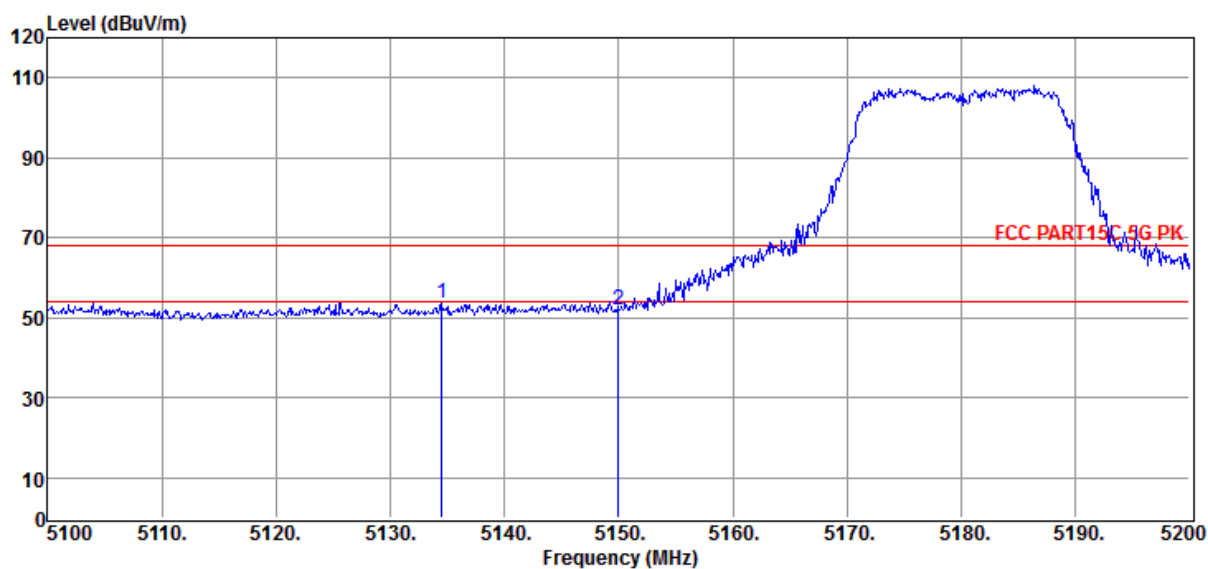
Test Mode : Tx mode

Condition : Temp:24.5°C,Humi:55%,
Press:100.1kPa

Antenna/Distance : 2017 HF907/3m/HORIZONTAL

Memo : 11AC20 5180

Data: 81



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5134.50	54.47	35.13	43.72	7.66	53.54	68.20	-14.66	Peak	HORIZONTAL
2	5150.00	52.93	35.15	43.71	7.67	52.04	68.20	-16.16	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#

D:\2018 RE1# Report Data\Q18042804-1E M2\FCC
ABOVE1G 5G 5.27.EM6

Test Date : 2018-05-27

Tested By : Talent

EUT : Wi-Fi ROUTER

Model Number : M2

Power Supply : AC 120V/60Hz

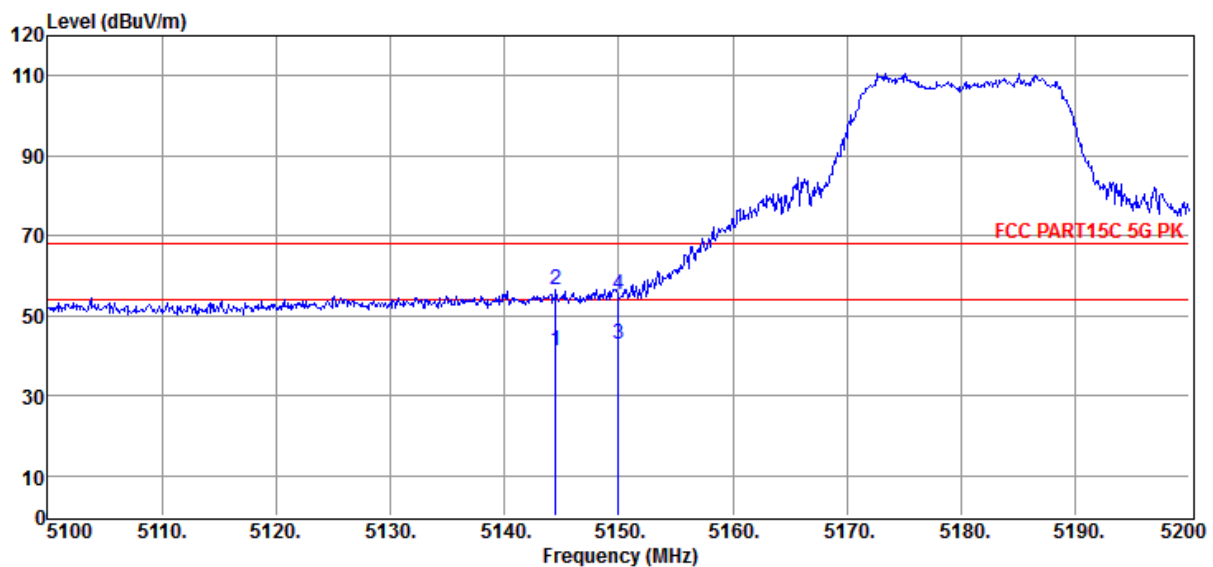
Test Mode : Tx mode

Condition : Temp:24.5'C,Humi:55%,
Press:100.1kPa

Antenna/Distance : 2017 HF907/3m/VERTICAL

Memo : 11AC20 5180

Data: 82



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV /m)	Over Limit (dB)	Detector	Polarization
1	5144.50	42.12	35.14	43.71	7.67	41.22	54.00	-12.78	Average	VERTICAL
2	5144.50	57.20	35.14	43.71	7.67	56.30	68.20	-11.90	Peak	VERTICAL
3	5150.00	43.76	35.15	43.71	7.67	42.87	54.00	-11.13	Average	VERTICAL
4	5150.00	56.07	35.15	43.71	7.67	55.18	68.20	-13.02	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#

D:\2018 RE1# Report Data\Q18042804-1E M2\FCC
ABOVE1G 5G 5.27.EM6

Test Date : 2018-05-27

Tested By : Talent

EUT : Wi-Fi ROUTER

Model Number : M2

Power Supply : AC 120V/60Hz

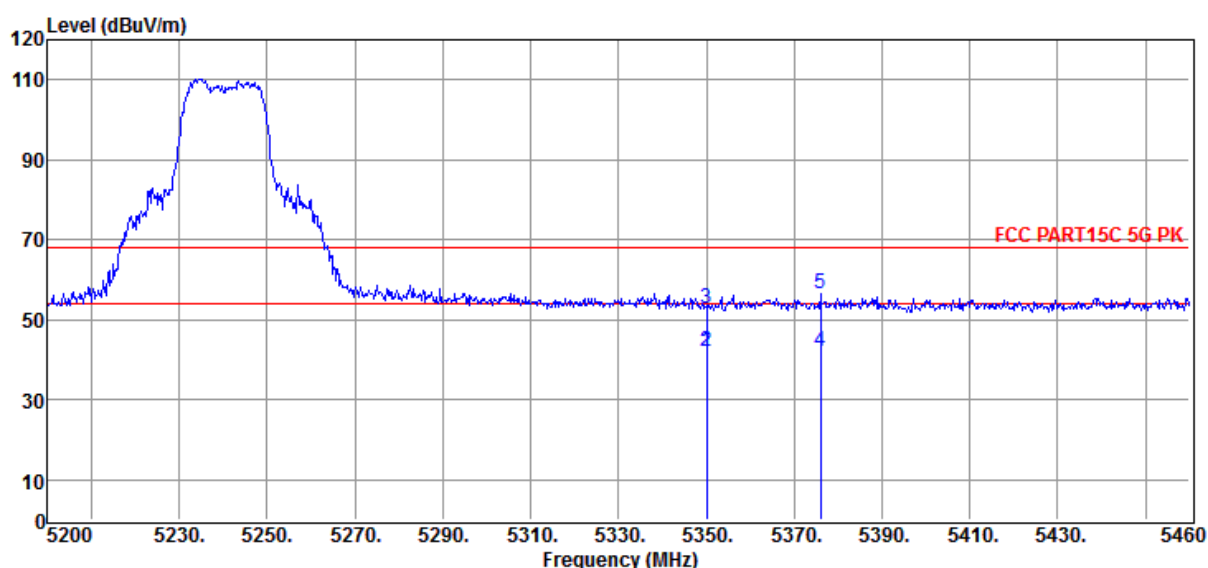
Test Mode : Tx mode

Condition : Temp:24.5'C,Humi:55%,
Press:100.1kPa

Antenna/Distance : 2017 HF907/3m/VERTICAL

Memo : 11AC20 5240

Data: 83



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV /m)	Over Limit (dB)	Detector	Polarization
1	5350.00	42.52	35.35	43.59	7.80	42.08	54.00	-11.92	Average	VERTICAL
2	5350.00	42.52	35.35	43.59	7.80	42.08	54.00	-11.92	Average	VERTICAL
3	5350.00	53.31	35.35	43.59	7.80	52.87	68.20	-15.33	Peak	VERTICAL
4	5376.02	42.62	35.38	43.57	7.82	42.25	54.00	-11.75	Average	VERTICAL
5	5376.02	56.87	35.38	43.57	7.82	56.50	68.20	-11.70	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#

D:\2018 RE1# Report Data\Q18042804-1E M2\FCC
ABOVE1G 5G 5.27.EM6

Test Date : 2018-05-27

Tested By : Talent

EUT : Wi-Fi ROUTER

Model Number : M2

Power Supply : AC 120V/60Hz

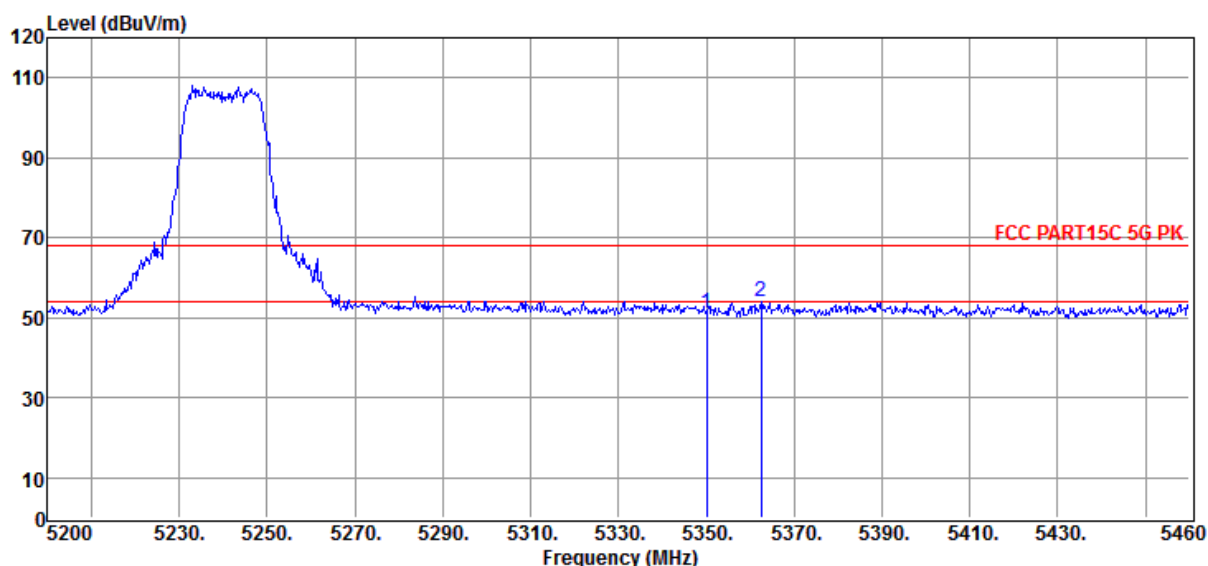
Test Mode : Tx mode

Condition : Temp:24.5°C,Humi:55%,
Press:100.1kPa

Antenna/Distance : 2017 HF907/3m/HORIZONTAL

Memo : 11AC20 5240

Data: 84



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV /m)	Over Limit (dB)	Detector	Polarization
1	5350.00	51.76	35.35	43.59	7.80	51.32	68.20	-16.88	Peak	HORIZONTAL
2	5362.50	54.55	35.36	43.58	7.81	54.14	68.20	-14.06	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#

D:\2018 RE1# Report Data\Q18042804-1E M2\FCC
ABOVE1G 5G 5.27.EM6

Test Date : 2018-05-27

Tested By : Talent

EUT : Wi-Fi ROUTER

Model Number : M2

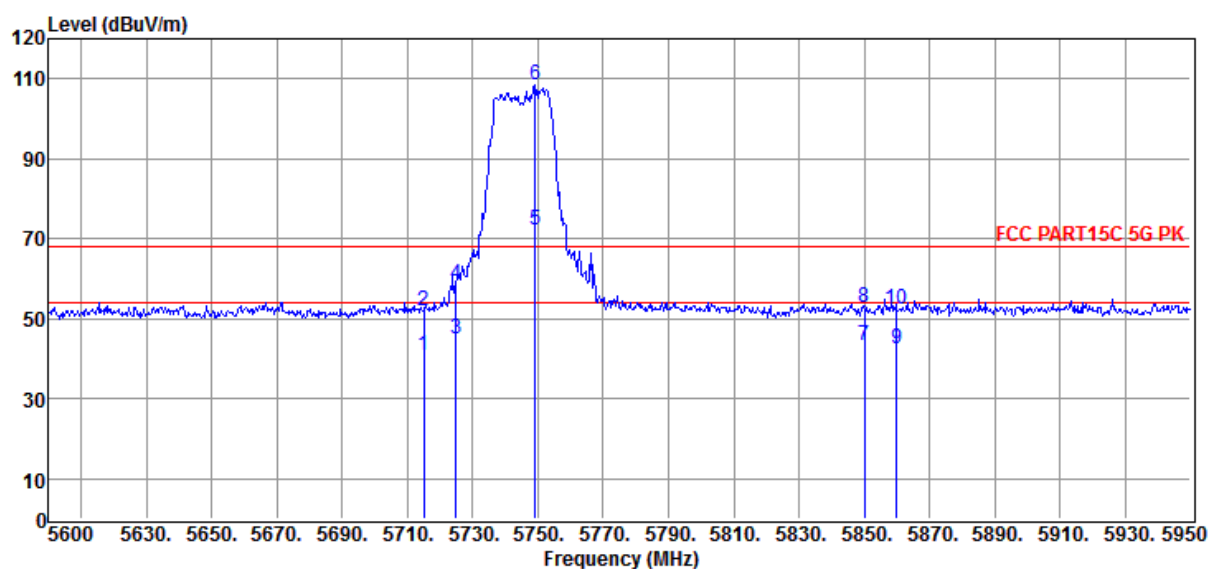
Power Supply : AC 120V/60Hz

Test Mode : Tx mode

Condition : Temp:24.5'C,Humi:55%,
Press:100.1kPa

Antenna/Distance : 2017 HF907/3m/HORIZONTAL

Memo : 11AC20 5745



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV /m)	Over Limit (dB)	Detector	Polarization
1	5715.00	40.75	35.59	43.37	8.03	41.00	109.4	-68.40	Average	HORIZONTAL
2	5715.00	51.60	35.59	43.37	8.03	51.85	109.4	-57.55	Peak	HORIZONTAL
3	5725.00	44.75	35.59	43.37	8.04	45.01	122.2	-77.19	Average	HORIZONTAL
4	5725.00	58.49	35.59	43.37	8.04	58.75	122.2	-63.45	Peak	HORIZONTAL
5	5749.10	71.93	35.60	43.35	8.05	72.23	125.2	-52.97	Average	HORIZONTAL
6	5749.10	107.95	35.60	43.35	8.05	108.25	125.2	-16.95	Peak	HORIZONTAL
7	5850.00	42.63	35.64	43.29	8.12	43.10	122.2	-79.10	Average	HORIZONTAL
8	5850.00	52.33	35.64	43.29	8.12	52.80	122.2	-69.40	Peak	HORIZONTAL
9	5860.00	41.85	35.64	43.28	8.12	42.33	109.4	-67.07	Average	HORIZONTAL
10	5860.00	51.83	35.64	43.28	8.12	52.31	109.4	-16.34	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#

D:\2018 RE1# Report Data\Q18042804-1E M2\FCC
ABOVE1G 5G 5.27.EM6

Test Date : 2018-05-27

Tested By : Talent

EUT : Wi-Fi ROUTER

Model Number : M2

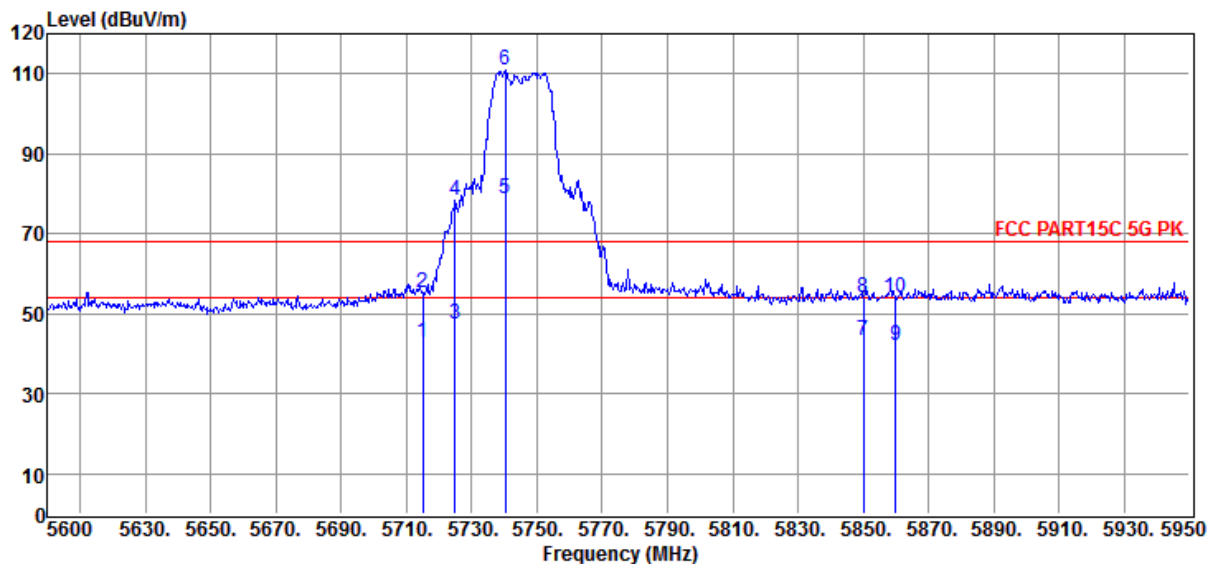
Power Supply : AC 120V/60Hz

Test Mode : Tx mode

Condition : Temp:24.5°C,Humi:55%,
Press:100.1kPa

Antenna/Distance : 2017 HF907/3m/VERTICAL

Memo : 11AC20 5745



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV /m)	Over Limit (dB)	Detector	Polarization
1	5715.00	42.65	35.59	43.37	8.03	42.90	109.4	-66.50	Average	VERTICAL
2	5715.00	55.04	35.59	43.37	8.03	55.29	109.4	-54.11	Peak	VERTICAL
3	5725.00	47.37	35.59	43.37	8.04	47.63	122.2	-74.57	Average	VERTICAL
4	5725.00	77.95	35.59	43.37	8.04	78.21	122.2	-43.99	Peak	VERTICAL
5	5740.35	78.51	35.60	43.36	8.05	78.80	125.2	-46.40	Average	VERTICAL
6	5740.35	110.61	35.60	43.36	8.05	110.90	125.2	-14.30	Peak	VERTICAL
7	5850.00	42.63	35.64	43.29	8.12	43.10	122.2	-79.10	Average	VERTICAL
8	5850.00	53.37	35.64	43.29	8.12	53.84	122.2	-68.36	Peak	VERTICAL
9	5860.00	41.65	35.64	43.28	8.12	42.13	109.4	-67.27	Average	VERTICAL
10	5860.00	53.74	35.64	43.28	8.12	54.22	109.4	-16.34	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#

D:\2018 RE1# Report Data\Q18042804-1E M2\FCC
ABOVE1G 5G 5.27.EM6

Test Date : 2018-05-27

Tested By : Talent

EUT : Wi-Fi ROUTER

Model Number : M2

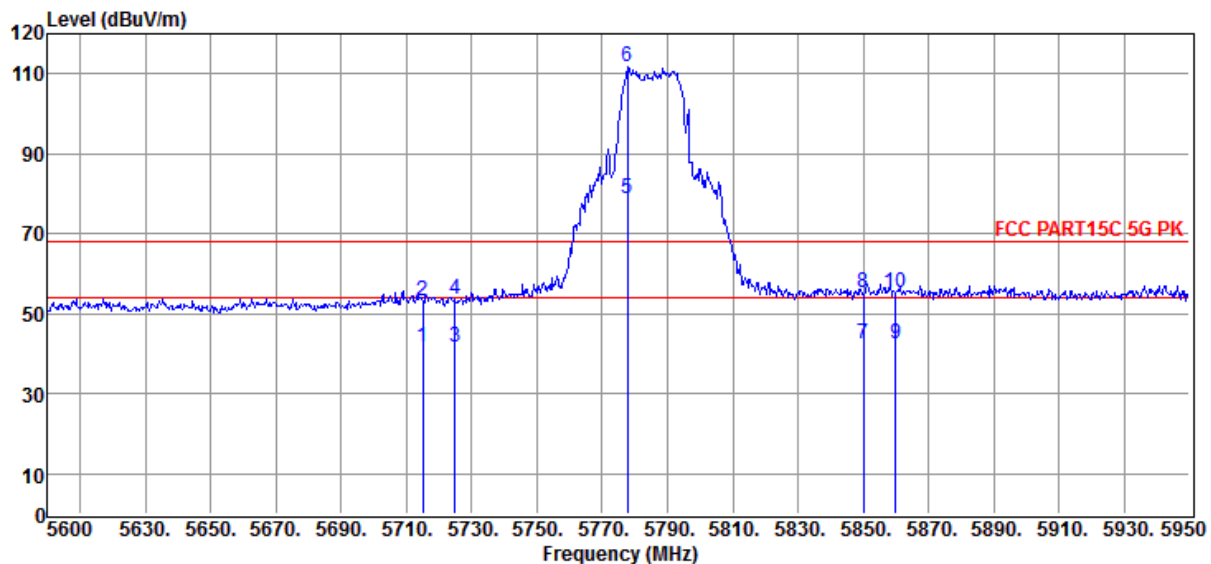
Power Supply : AC 120V/60Hz

Test Mode : Tx mode

Condition : Temp:24.5°C,Humi:55%,
Press:100.1kPa

Antenna/Distance : 2017 HF907/3m/VERTICAL

Memo : 11AC20 5785



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV /m)	Over Limit (dB)	Detector	Polarization
1	5715.00	41.48	35.59	43.37	8.03	41.73	109.4	-67.67	Average	VERTICAL
2	5715.00	53.08	35.59	43.37	8.03	53.33	109.4	-56.07	Peak	VERTICAL
3	5725.00	41.37	35.59	43.37	8.04	41.63	122.2	-80.57	Average	VERTICAL
4	5725.00	53.39	35.59	43.37	8.04	53.65	122.2	-68.55	Peak	VERTICAL
5	5777.80	78.55	35.61	43.33	8.07	78.90	125.2	-46.30	Average	VERTICAL
6	5777.80	111.47	35.61	43.33	8.07	111.82	125.2	-13.38	Peak	VERTICAL
7	5850.00	41.83	35.64	43.29	8.12	42.30	122.2	-79.90	Average	VERTICAL
8	5850.00	54.91	35.64	43.29	8.12	55.38	122.2	-66.82	Peak	VERTICAL
9	5860.00	41.99	35.64	43.28	8.12	42.47	109.4	-66.93	Average	VERTICAL
10	5860.00	54.69	35.64	43.28	8.12	55.17	109.4	-16.34	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#

D:\2018 RE1# Report Data\Q18042804-1E M2\FCC
ABOVE1G 5G 5.27.EM6

Test Date : 2018-05-27

Tested By : Talent

EUT : Wi-Fi ROUTER

Model Number : M2

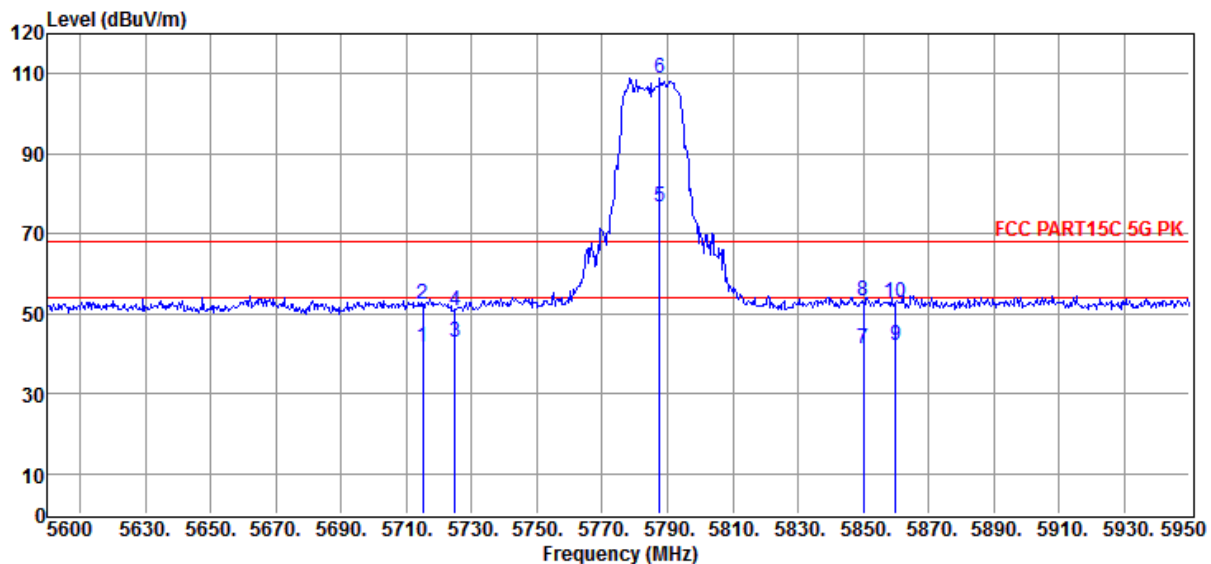
Power Supply : AC 120V/60Hz

Test Mode : Tx mode

Condition : Temp:24.5°C,Humi:55%,
Press:100.1kPa

Antenna/Distance : 2017 HF907/3m/HORIZONTAL

Memo : 11AC20 5785



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV /m)	Over Limit (dB)	Detector	Polarization
1	5715	41.36	35.59	43.37	8.03	41.61	109.4	-67.79	Average	HORIZONTAL
2	5715	52.26	35.59	43.37	8.03	52.51	109.4	-56.89	Peak	HORIZONTAL
3	5725	42.66	35.59	43.37	8.04	42.92	122.2	-79.28	Average	HORIZONTAL
4	5725	50.58	35.59	43.37	8.04	50.84	122.2	-71.36	Peak	HORIZONTAL
5	5787.6	76.34	35.62	43.33	8.08	76.71	125.2	-48.49	Average	HORIZONTAL
6	5787.6	108.52	35.62	43.33	8.08	108.89	125.2	-16.31	Peak	HORIZONTAL
7	5850	40.69	35.64	43.29	8.12	41.16	122.2	-81.04	Average	HORIZONTAL
8	5850	52.8	35.64	43.29	8.12	53.27	122.2	-68.93	Peak	HORIZONTAL
9	5860	41.69	35.64	43.28	8.12	42.17	109.4	-67.23	Average	HORIZONTAL
10	5860	52.23	35.64	43.28	8.12	52.71	109.4	-16.34	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#

D:\2018 RE1# Report Data\Q18042804-1E M2\FCC ABOVE1G 5G 5.27.EM6

Test Date : 2018-05-27

Tested By : Talent

EUT : Wi-Fi ROUTER

Model Number : M2

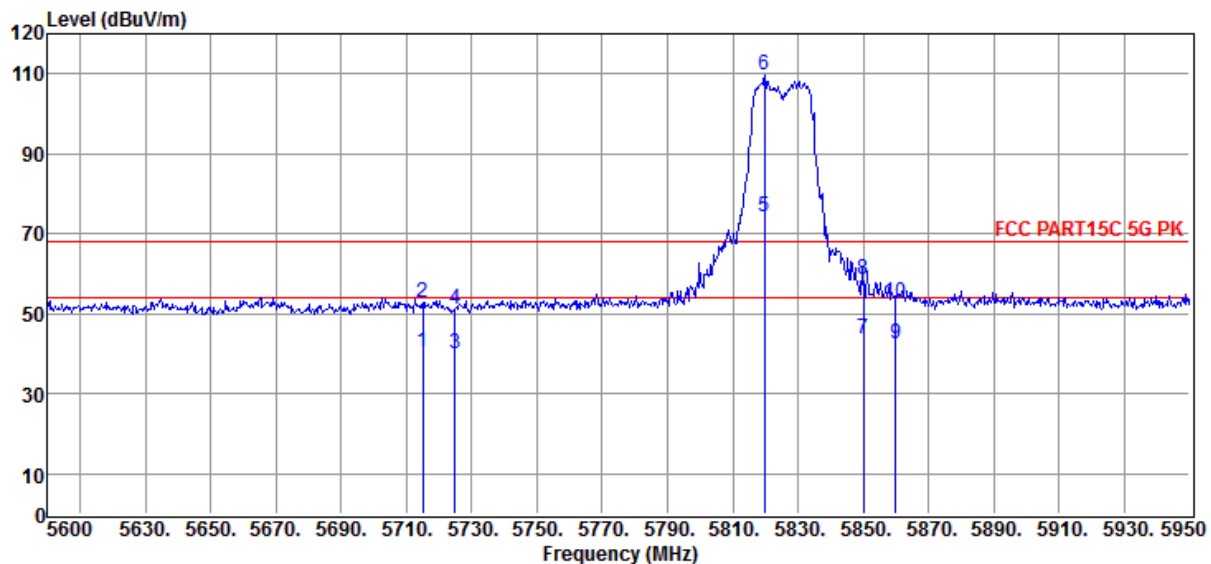
Power Supply : AC 120V/60Hz

Test Mode : Tx mode

Condition : Temp:24.5'C,Humi:55%,
Press:100.1kPa

Antenna/Distance : 2017 HF907/3m/HORIZONTAL

Memo : 11AC20 5825



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV /m)	Over Limit (dB)	Detector	Polarization
1	5715	40.18	35.59	43.37	8.03	40.43	109.4	-68.97	Average	HORIZONTAL
2	5715	52.34	35.59	43.37	8.03	52.59	109.4	-56.81	Peak	HORIZONTAL
3	5725	39.68	35.59	43.37	8.04	39.94	122.2	-82.26	Average	HORIZONTAL
4	5725	51.05	35.59	43.37	8.04	51.31	122.2	-70.89	Peak	HORIZONTAL
5	5819.8	73.82	35.63	43.31	8.1	74.24	125.2	-50.96	Average	HORIZONTAL
6	5819.8	109.12	35.63	43.31	8.1	109.54	125.2	-15.66	Peak	HORIZONTAL
7	5850	43.22	35.64	43.29	8.12	43.69	122.2	-78.51	Average	HORIZONTAL
8	5850	58.28	35.64	43.29	8.12	58.75	122.2	-63.45	Peak	HORIZONTAL
9	5860	41.87	35.64	43.28	8.12	42.35	109.4	-67.05	Average	HORIZONTAL
10	5860	52.13	35.64	43.28	8.12	52.61	109.4	-16.34	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#

D:\2018 RE1# Report Data\Q18042804-1E M2\FCC
ABOVE1G 5G 5.27.EM6

Test Date : 2018-05-27

Tested By : Talent

EUT : Wi-Fi ROUTER

Model Number : M2

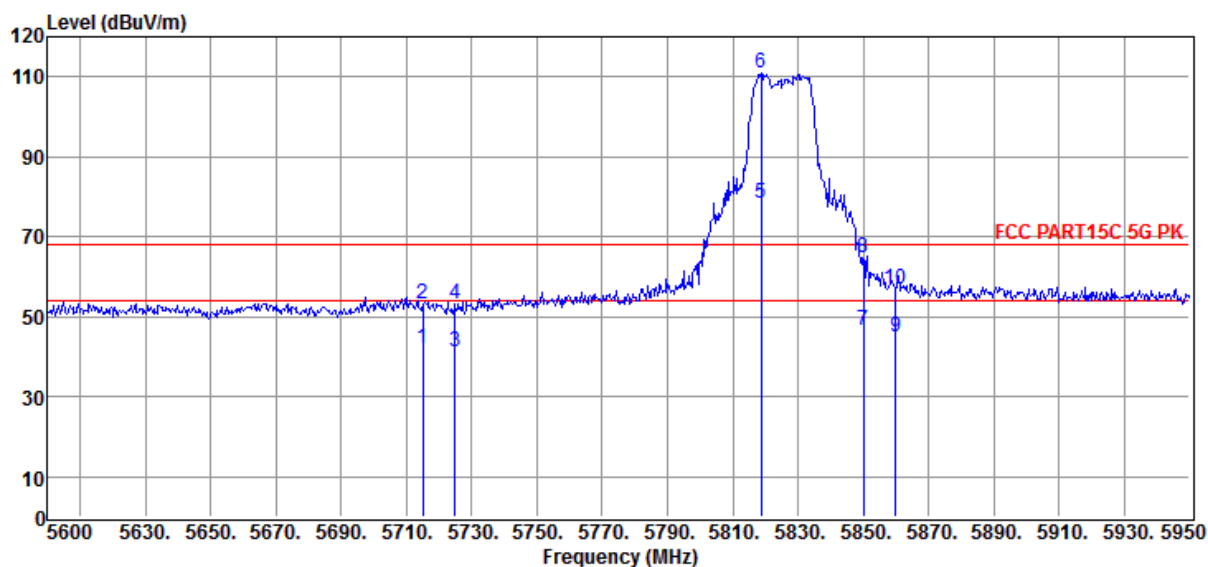
Power Supply : AC 120V/60Hz

Test Mode : Tx mode

Condition : Temp:24.5'C,Humi:55%,
Press:100.1kPa

Antenna/Distance : 2017 HF907/3m/VERTICAL

Memo : 11AC20 5825



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV /m)	Over Limit (dB)	Detector	Polarization
1	5715.00	41.86	35.59	43.37	8.03	42.11	109.4	-67.29	Average	VERTICAL
2	5715.00	52.77	35.59	43.37	8.03	53.02	109.4	-56.38	Peak	VERTICAL
3	5725.00	40.91	35.59	43.37	8.04	41.17	122.2	-81.03	Average	VERTICAL
4	5725.00	52.82	35.59	43.37	8.04	53.08	122.2	-69.12	Peak	VERTICAL
5	5818.75	77.81	35.63	43.31	8.10	78.23	125.2	-46.97	Average	VERTICAL
6	5818.75	110.63	35.63	43.31	8.10	111.05	125.2	-14.15	Peak	VERTICAL
7	5850.00	45.96	35.64	43.29	8.12	46.43	122.2	-75.77	Average	VERTICAL
8	5850.00	64.33	35.64	43.29	8.12	64.80	122.2	-57.40	Peak	VERTICAL
9	5860.00	44.53	35.64	43.28	8.12	45.01	109.4	-64.39	Average	VERTICAL
10	5860.00	56.41	35.64	43.28	8.12	56.89	109.4	-16.34	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

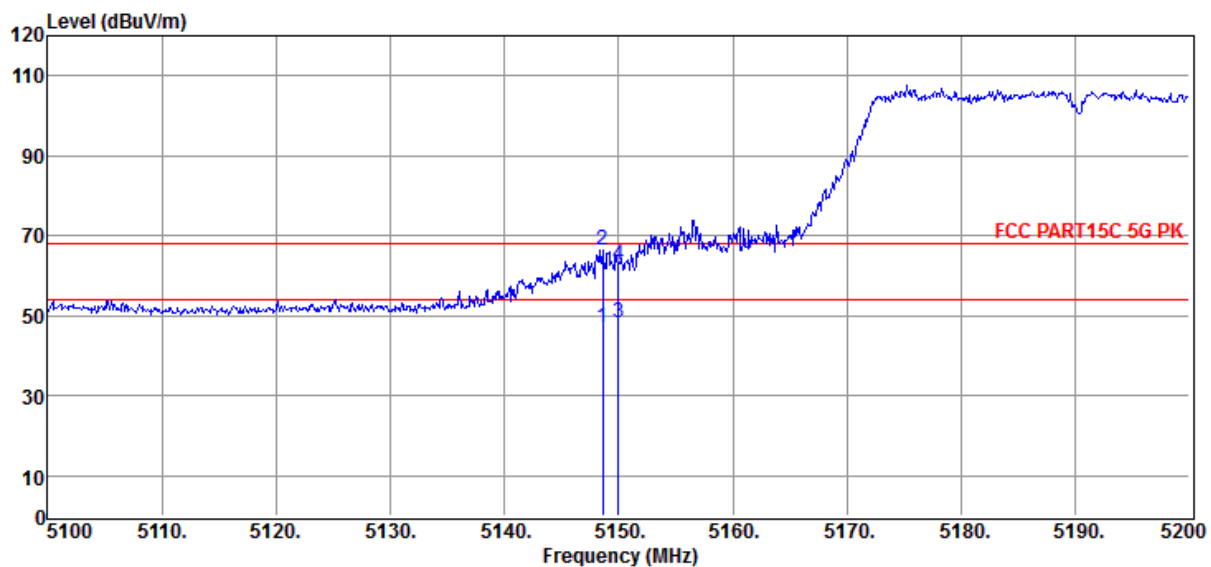
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#
Test Date : 2018-05-27
EUT : Wi-Fi ROUTER
Power Supply : AC 120V/60Hz
Condition : Temp:24.5'C,Humi:55%,
 Press:100.1kPa
Memo : 11N40 5190

D:\2018 RE1# Report Data\Q18042804-1E M2\FCC
 ABOVE1G 5G 5.27.EM6
Tested By : Talent
Model Number : M2
Test Mode : Tx mode
Antenna/Distance : 2017 HF907/3m/VERTICAL

Data: 91



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5148.60	48.01	35.15	43.71	7.67	47.12	54.00	-6.88	Average	VERTICAL
2	5148.60	67.31	35.15	43.71	7.67	66.42	68.20	-1.78	Peak	VERTICAL
3	5150.00	49.05	35.15	43.71	7.67	48.16	54.00	-5.84	Average	VERTICAL
4	5150.00	63.50	35.15	43.71	7.67	62.61	68.20	-5.59	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#

D:\2018 RE1# Report Data\Q18042804-1E M2\FCC
ABOVE1G 5G 5.27.EM6

Test Date : 2018-05-27

Tested By : Talent

EUT : Wi-Fi ROUTER

Model Number : M2

Power Supply : AC 120V/60Hz

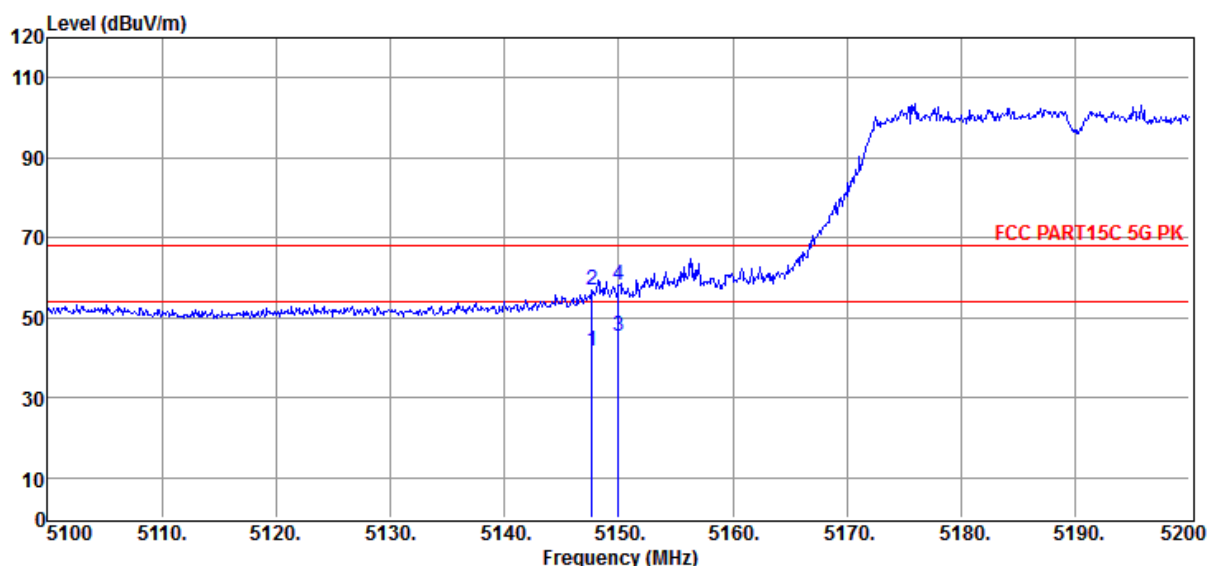
Test Mode : Tx mode

Condition : Temp:24.5'C,Humi:55%,
Press:100.1kPa

Antenna/Distance : 2017 HF907/3m/HORIZONTAL

Memo : 11N40 5190

Data: 92



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV /m)	Over Limit (dB)	Detector	Polarization
1	5147.70	42.69	35.15	43.71	7.67	41.80	54.00	-12.20	Average	HORIZONTAL
2	5147.70	57.69	35.15	43.71	7.67	56.80	68.20	-11.40	Peak	HORIZONTAL
3	5150.00	46.25	35.15	43.71	7.67	45.36	54.00	-8.64	Average	HORIZONTAL
4	5150.00	58.88	35.15	43.71	7.67	57.99	68.20	-10.21	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

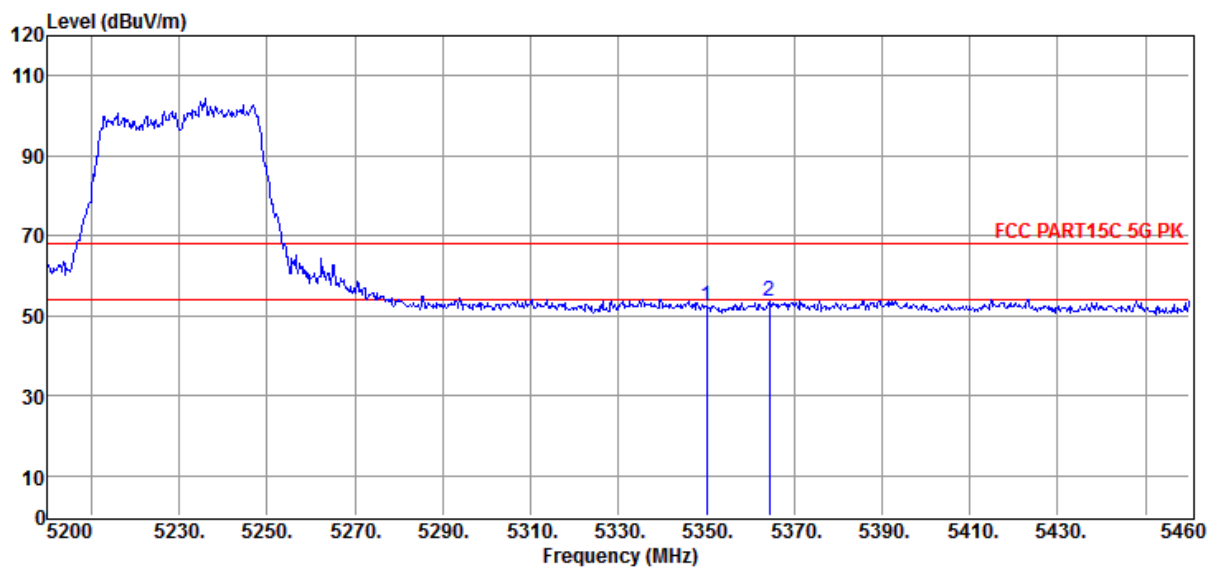
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 1#	D:\2018 RE1# Report Data\Q18042804-1E M2\FCC ABOVE1G 5G 5.27.EM6
Test Date	: 2018-05-27	Tested By : Talent
EUT	: Wi-Fi ROUTER	Model Number : M2
Power Supply	: AC 120V/60Hz	Test Mode : Tx mode
Condition	: Temp:24.5'C,Humi:55%, Press:100.1kPa	Antenna/Distance : 2017 HF907/3m/HORIZONTAL
Memo	: 11N40 5230	

Data: 93



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV /m)	Over Limit (dB)	Detector	Polarization
1	5350.00	52.66	35.35	43.59	7.80	52.22	68.20	-15.98	Peak	HORIZONTAL
2	5364.32	54.19	35.36	43.58	7.81	53.78	68.20	-14.42	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#

D:\2018 RE1# Report Data\Q18042804-1E M2\FCC
ABOVE1G 5G 5.27.EM6

Test Date : 2018-05-27

Tested By : Talent

EUT : Wi-Fi ROUTER

Model Number : M2

Power Supply : AC 120V/60Hz

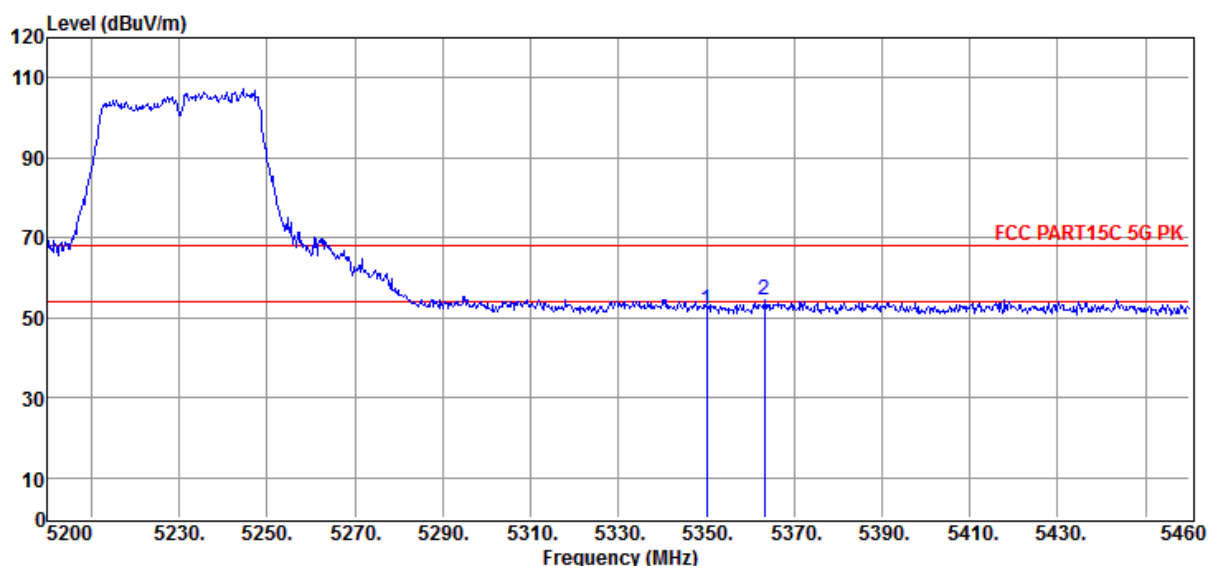
Test Mode : Tx mode

Condition : Temp:24.5'C,Humi:55%,
Press:100.1kPa

Antenna/Distance : 2017 HF907/3m/VERTICAL

Memo : 11N40 5230

Data: 94



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV /m)	Over Limit (dB)	Detector	Polarization
1	5350.00	52.42	35.35	43.59	7.80	51.98	68.20	-16.22	Peak	VERTICAL
2	5363.28	54.70	35.36	43.58	7.81	54.29	68.20	-13.91	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#

D:\2018 RE1# Report Data\Q18042804-1E M2\FCC
ABOVE1G 5G 5.27.EM6

Test Date : 2018-05-27

Tested By : Talent

EUT : Wi-Fi ROUTER

Model Number : M2

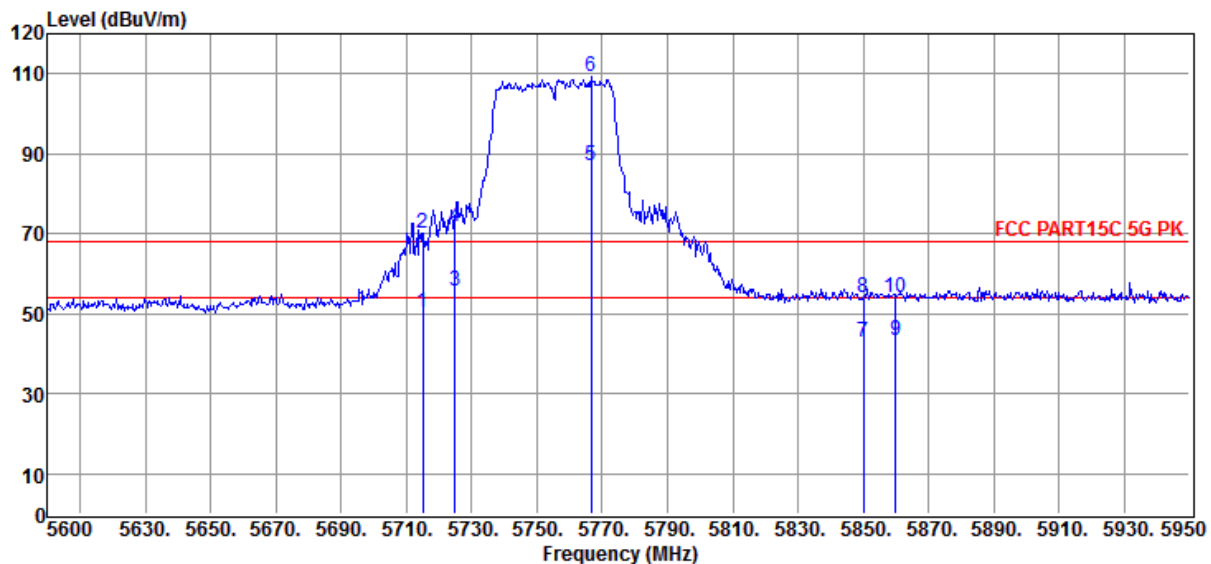
Power Supply : AC 120V/60Hz

Test Mode : Tx mode

Condition : Temp:24.5°C,Humi:55%,
Press:100.1kPa

Antenna/Distance : 2017 HF907/3m/VERTICAL

Memo : 11N40 5755



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5715.00	50.03	35.59	43.37	8.03	50.28	109.4	-59.12	Average	VERTICAL
2	5715.00	69.95	35.59	43.37	8.03	70.20	109.4	-39.20	Peak	VERTICAL
3	5725.00	55.51	35.59	43.37	8.04	55.77	122.2	-66.43	Average	VERTICAL
4	5725.00	71.46	35.59	43.37	8.04	71.72	122.2	-50.48	Peak	VERTICAL
5	5766.60	86.84	35.61	43.34	8.06	87.17	125.2	-38.03	Average	HORIZONTAL
6	5766.60	108.96	35.61	43.34	8.06	109.29	125.2	-15.91	Peak	VERTICAL
7	5850.00	42.40	35.64	43.29	8.12	42.87	122.2	-79.33	Average	VERTICAL
8	5850.00	53.62	35.64	43.29	8.12	54.09	122.2	-68.11	Peak	VERTICAL
9	5860.05	42.84	35.64	43.28	8.12	43.32	109.4	-66.08	Average	VERTICAL
10	5860.05	53.42	35.64	43.28	8.12	53.90	109.4	-16.34	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#

D:\2018 RE1# Report Data\Q18042804-1E M2\FCC ABOVE1G 5G 5.27.EM6

Test Date : 2018-05-27

Tested By : Talent

EUT : Wi-Fi ROUTER

Model Number : M2

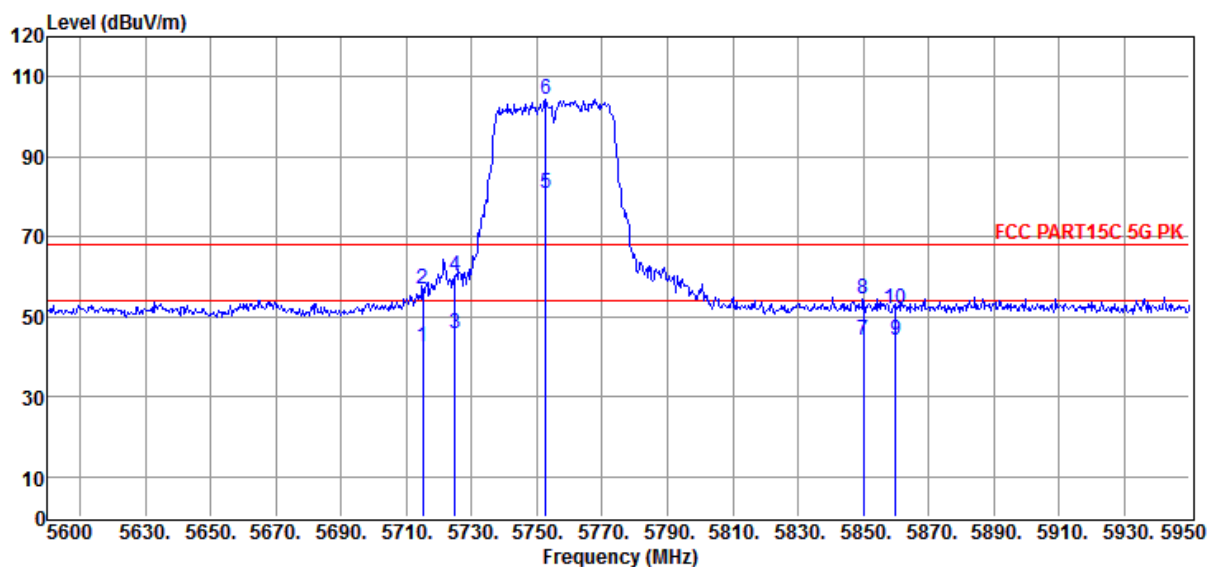
Power Supply : AC 120V/60Hz

Test Mode : Tx mode

Condition : Temp:24.5'C,Humi:55%,
Press:100.1kPa

Antenna/Distance : 2017 HF907/3m/HORIZONTAL

Memo : 11N40 5755



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV /m)	Over Limit (dB)	Detector	Polarization
1	5715.00	42.12	35.59	43.37	8.03	42.37	109.4	-67.03	Average	HORIZONTAL
2	5715.00	56.48	35.59	43.37	8.03	56.73	109.4	-52.67	Peak	HORIZONTAL
3	5725.00	45.69	35.59	43.37	8.04	45.95	122.2	-76.25	Average	HORIZONTAL
4	5725.00	59.82	35.59	43.37	8.04	60.08	122.2	-62.12	Peak	HORIZONTAL
5	5752.60	80.46	35.60	43.35	8.05	80.76	125.2	-44.44	Average	HORIZONTAL
6	5752.60	103.94	35.60	43.35	8.05	104.24	125.2	-20.96	Peak	HORIZONTAL
7	5850.00	43.65	35.64	43.29	8.12	44.12	122.2	-78.08	Average	HORIZONTAL
8	5850.00	54.14	35.64	43.29	8.12	54.61	122.2	-67.59	Peak	HORIZONTAL
9	5860.00	43.74	35.64	43.28	8.12	44.22	109.4	-65.18	Average	HORIZONTAL
10	5860.00	51.52	35.64	43.28	8.12	52.00	109.4	-16.34	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#

D:\2018 RE1# Report Data\Q18042804-1E M2\FCC ABOVE1G 5G 5.27.EM6

Test Date : 2018-05-27

Tested By : Talent

EUT : Wi-Fi ROUTER

Model Number : M2

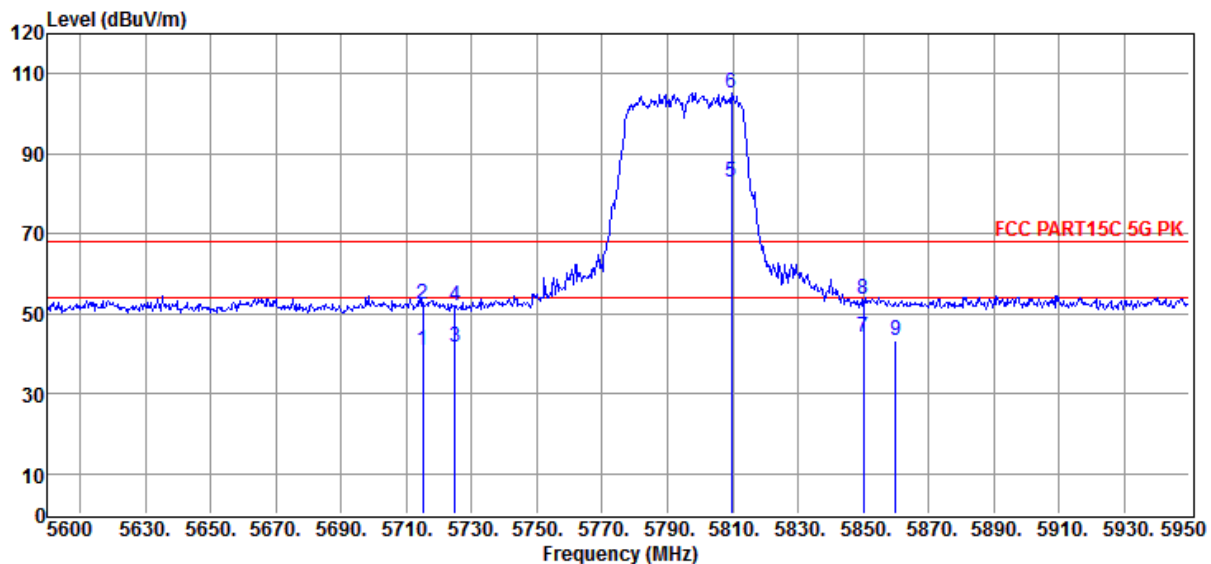
Power Supply : AC 120V/60Hz

Test Mode : Tx mode

Condition : Temp:24.5'C,Humi:55%,
Press:100.1kPa

Antenna/Distance : 2017 HF907/3m/HORIZONTAL

Memo : 11N40 5775



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV /m)	Over Limit (dB)	Detector	Polarization
1	5715.00	40.54	35.59	43.37	8.03	40.79	109.4	-68.61	Average	HORIZONTAL
2	5715.00	52.06	35.59	43.37	8.03	52.31	109.4	-57.09	Peak	HORIZONTAL
3	5725.00	41.36	35.59	43.37	8.04	41.62	122.2	-80.58	Average	HORIZONTAL
4	5725.00	51.69	35.59	43.37	8.04	51.95	122.2	-70.25	Peak	HORIZONTAL
5	5809.65	82.65	35.62	43.31	8.09	83.05	125.2	-42.15	Average	HORIZONTAL
6	5809.65	104.72	35.62	43.31	8.09	105.12	125.2	-20.08	Peak	HORIZONTAL
7	5850.00	43.45	35.64	43.29	8.12	43.92	122.2	-78.28	Average	HORIZONTAL
8	5850.00	53.15	35.64	43.29	8.12	53.62	122.2	-68.58	Peak	HORIZONTAL
9	5860.00	42.99	35.64	43.28	8.12	43.47	109.4	-65.93	Average	HORIZONTAL
10	5860.00	51.50	35.64	43.28	8.12	51.98	109.4	-16.36	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#

D:\2018 RE1# Report Data\Q18042804-1E M2\FCC
ABOVE1G 5G 5.27.EM6

Test Date : 2018-05-27

Tested By : Talent

EUT : Wi-Fi ROUTER

Model Number : M2

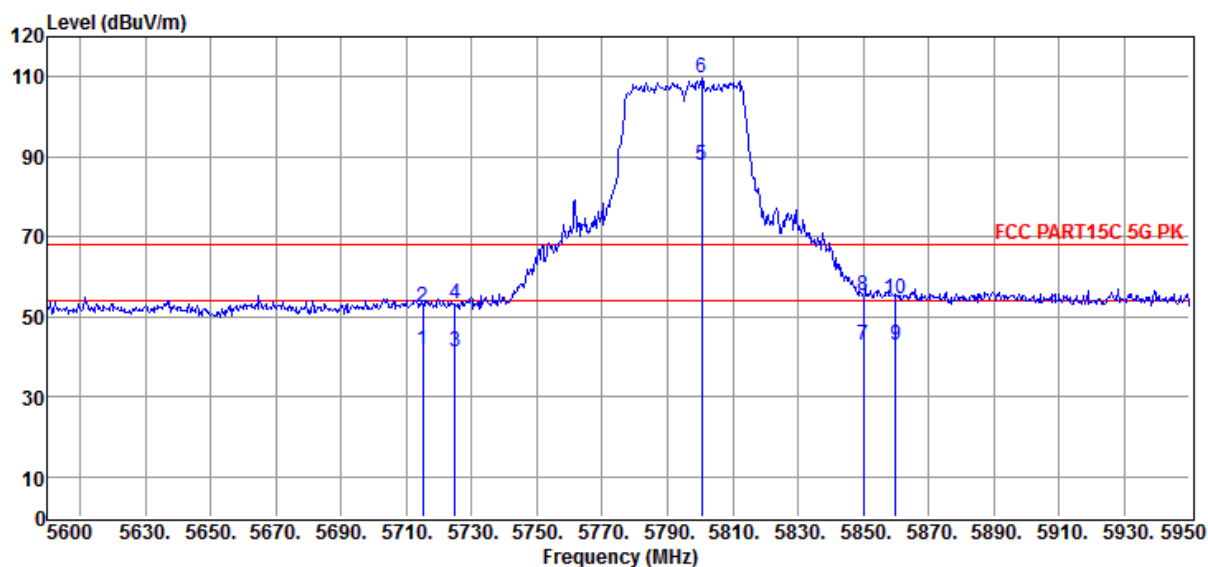
Power Supply : AC 120V/60Hz

Test Mode : Tx mode

Condition : Temp:24.5'C,Humi:55%,
Press:100.1kPa

Antenna/Distance : 2017 HF907/3m/VERTICAL

Memo : 11N40 5775



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5715.00	41.31	35.59	43.37	8.03	41.56	109.4	-67.84	Average	VERTICAL
2	5715.00	52.08	35.59	43.37	8.03	52.33	109.4	-57.07	Peak	VERTICAL
3	5725.00	41.00	35.59	43.37	8.04	41.26	122.2	-80.94	Average	VERTICAL
4	5725.00	52.75	35.59	43.37	8.04	53.01	122.2	-69.19	Peak	VERTICAL
5	5800.55	87.48	35.62	43.32	8.08	87.86	125.2	-37.34	Average	VERTICAL
6	5800.55	109.24	35.62	43.32	8.08	109.62	125.2	-15.58	Peak	VERTICAL
7	5850.00	42.33	35.64	43.29	8.12	42.80	122.2	-79.40	Average	VERTICAL
8	5850.00	54.93	35.64	43.29	8.12	55.40	122.2	-66.80	Peak	VERTICAL
9	5860.00	42.35	35.64	43.28	8.12	42.83	109.4	-66.57	Average	VERTICAL
10	5860.00	54.12	35.64	43.28	8.12	54.60	109.4	-16.36	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#

D:\2018 RE1# Report Data\Q18042804-1E M2\FCC
ABOVE1G 5G 5.27.EM6

Test Date : 2018-05-27

Tested By : Talent

EUT : Wi-Fi ROUTER

Model Number : M2

Power Supply : AC 120V/60Hz

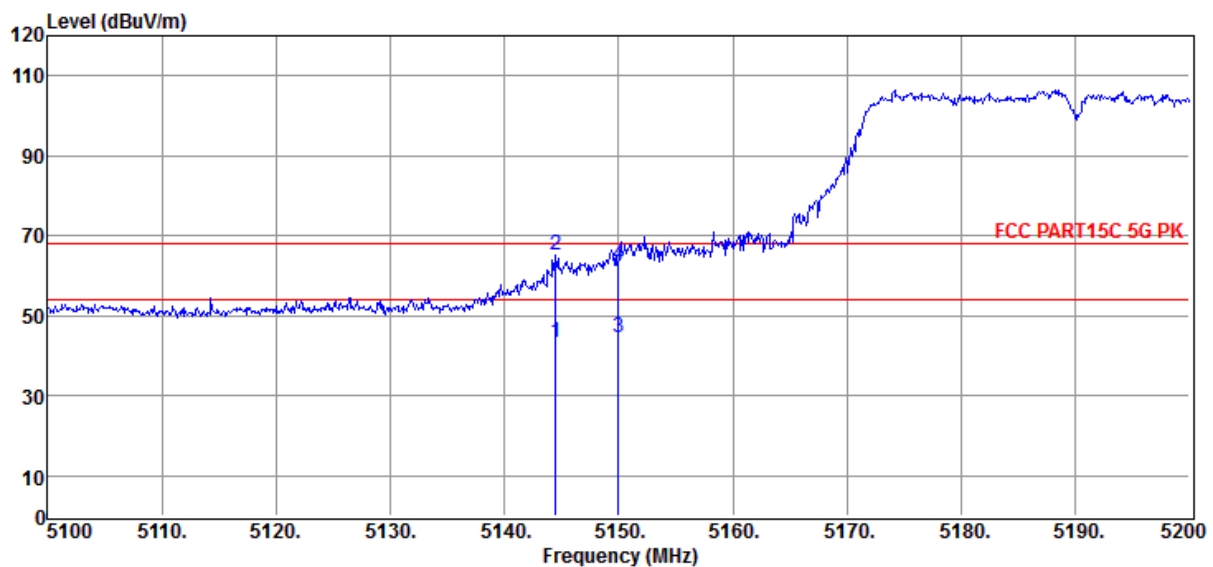
Test Mode : Tx mode

Condition : Temp:24.5'C,Humi:55%,
Press:100.1kPa

Antenna/Distance : 2017 HF907/3m/VERTICAL

Memo : 11AC40 5190

Data: 100



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV /m)	Over Limit (dB)	Detector	Polarization
1	5144.50	44.24	35.14	43.71	7.67	43.34	54.00	-10.66	Average	VERTICAL
2	5144.50	66.12	35.14	43.71	7.67	65.22	68.20	-2.98	Peak	VERTICAL
3	5150.00	45.39	35.15	43.71	7.67	44.50	54.00	-9.50	Average	VERTICAL
4	5150.00	63.56	35.15	43.71	7.67	62.67	68.20	-5.53	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#

D:\2018 RE1# Report Data\Q18042804-1E M2\FCC
ABOVE1G 5G 5.27.EM6

Test Date : 2018-05-27

Tested By : Talent

EUT : Wi-Fi ROUTER

Model Number : M2

Power Supply : AC 120V/60Hz

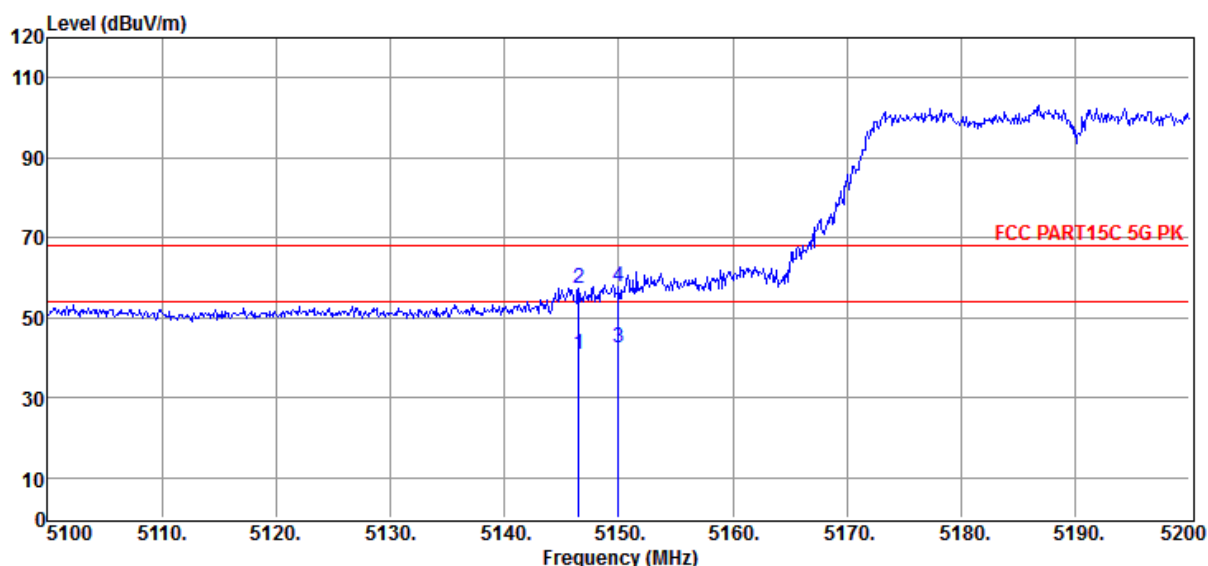
Test Mode : Tx mode

Condition : Temp:24.5'C,Humi:55%,
Press:100.1kPa

Antenna/Distance : 2017 HF907/3m/HORIZONTAL

Memo : 11AC40 5190

Data: 101



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV /m)	Over Limit (dB)	Detector	Polarization
1	5146.50	41.65	35.15	43.71	7.67	40.76	54.00	-13.24	Average	HORIZONTAL
2	5146.50	58.36	35.15	43.71	7.67	57.47	68.20	-10.73	Peak	HORIZONTAL
3	5150.00	43.56	35.15	43.71	7.67	42.67	54.00	-11.33	Average	HORIZONTAL
4	5150.00	58.71	35.15	43.71	7.67	57.82	68.20	-10.38	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

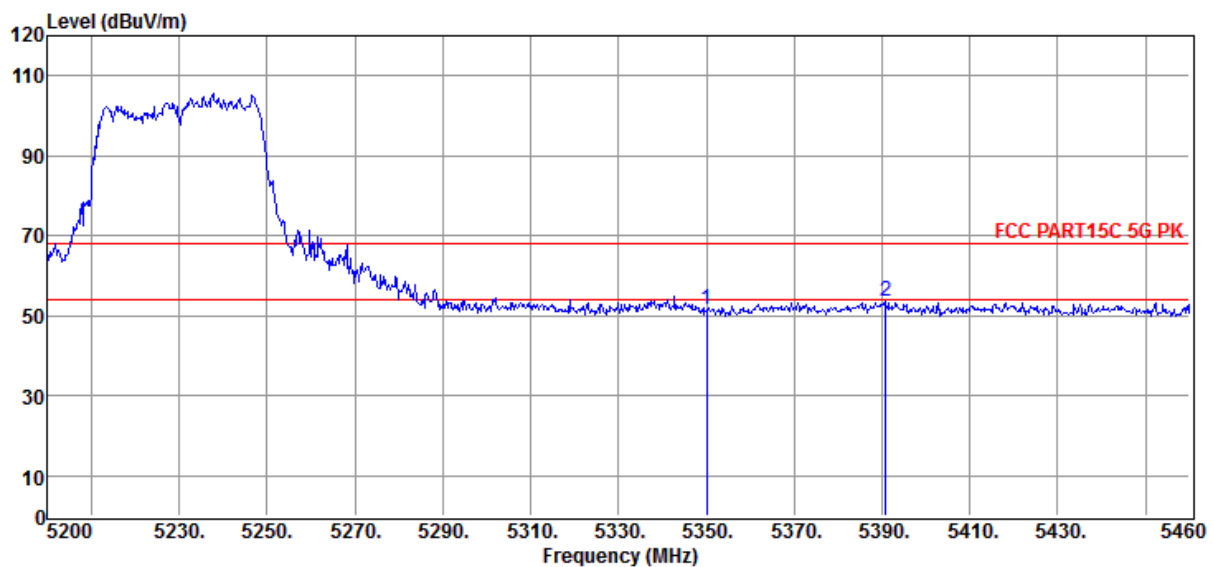
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#
Test Date : 2018-05-27
EUT : Wi-Fi ROUTER
Power Supply : AC 120V/60Hz
Condition : Temp:24.5'C,Humi:55%,
 Press:100.1kPa
Memo : 11AC40 5230

D:\2018 RE1# Report Data\Q18042804-1E M2\FCC
 ABOVE1G 5G 5.27.EM6
Tested By : Talent
Model Number : M2
Test Mode : Tx mode
Antenna/Distance : 2017 HF907/3m/HORIZONTAL

Data: 102



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5350.00	52.04	35.35	43.59	7.80	51.60	68.20	-16.60	Peak	HORIZONTAL
2	5390.84	53.83	35.39	43.57	7.83	53.48	68.20	-14.72	Peak	HORIZONTAL

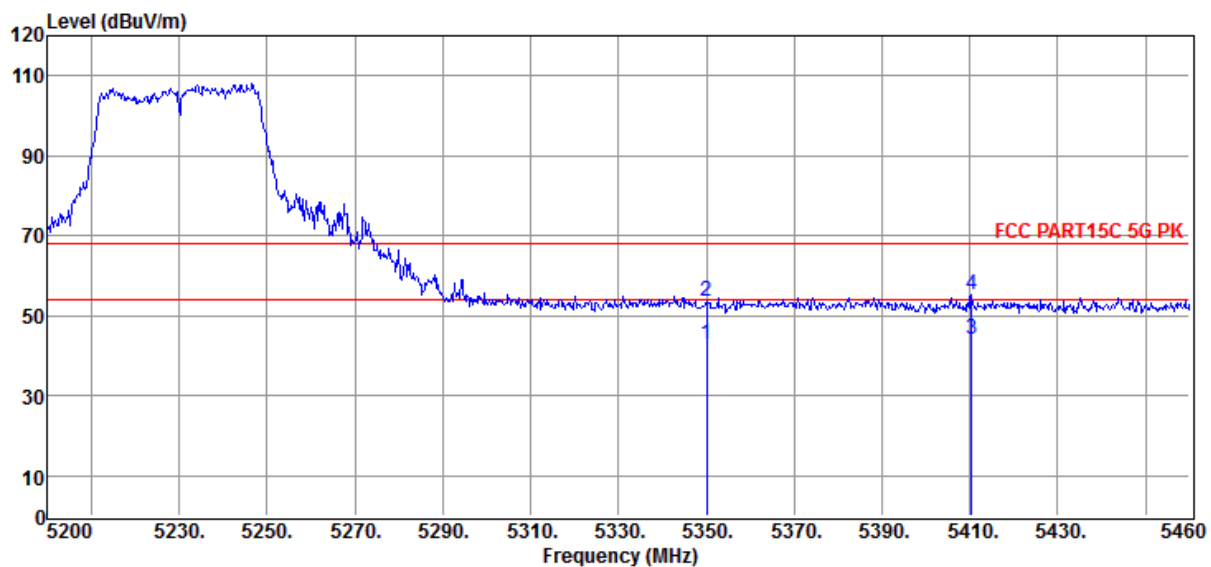
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#
Test Date : 2018-05-27
EUT : Wi-Fi ROUTER
Power Supply : AC 120V/60Hz
Condition : Temp:24.5'C,Humi:55%,
 Press:100.1kPa
Memo : 11AC40 5230

D:\2018 RE1# Report Data\Q18042804-1E M2\FCC
 ABOVE1G 5G 5.27.EM6
Tested By : Talent
Model Number : M2
Test Mode : Tx mode
Antenna/Distance : 2017 HF907/3m/VERTICAL

Data: 103



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV /m)	Over Limit (dB)	Detector	Polarization
1	5350.00	43.52	35.35	43.59	7.80	43.08	54.00	-10.92	Average	VERTICAL
2	5350.00	54.01	35.35	43.59	7.80	53.57	68.20	-14.63	Peak	VERTICAL
3	5410.34	44.23	35.41	43.55	7.84	43.93	54.00	-10.07	Average	VERTICAL
4	5410.34	55.71	35.41	43.55	7.84	55.41	68.20	-12.79	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#

D:\2018 RE1# Report Data\Q18042804-1E M2\FCC
ABOVE1G 5G 5.27.EM6

Test Date : 2018-05-27

Tested By : Talent

EUT : Wi-Fi ROUTER

Model Number : M2

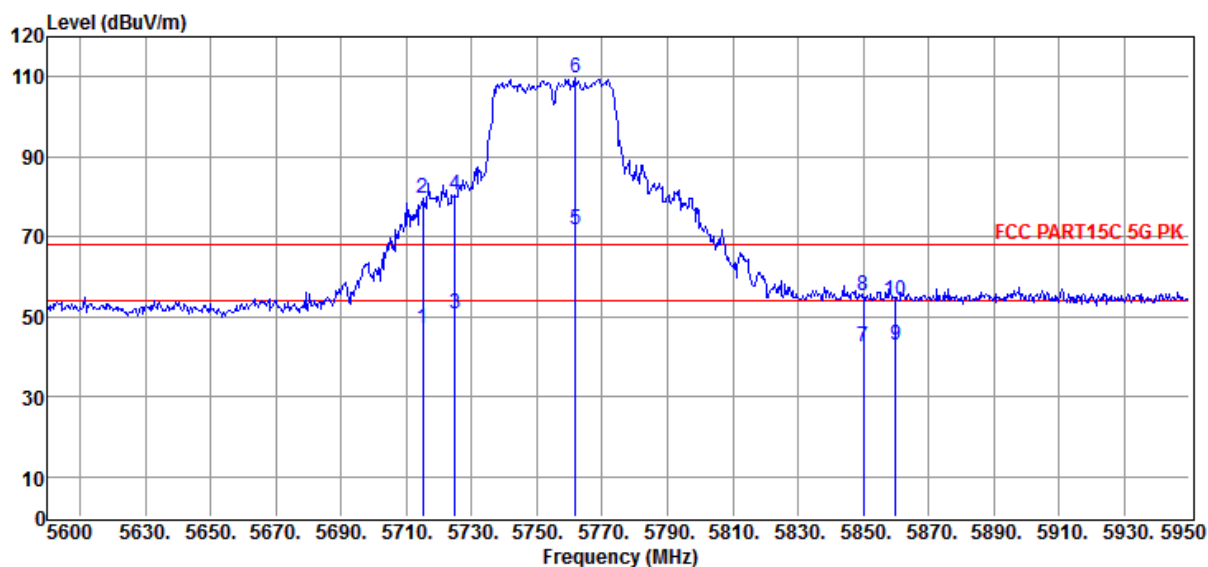
Power Supply : AC 120V/60Hz

Test Mode : Tx mode

Condition : Temp:24.5'C,Humi:55%,
Press:100.1kPa

Antenna/Distance : 2017 HF907/3m/VERTICAL

Memo : 11AC40 5755



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV /m)	Over Limit (dB)	Detector	Polarization
1	5715.0	46.9	35.6	43.4	8.0	47.1	109.4	-62.27	Average	VERTICAL
2	5715.0	79.4	35.6	43.4	8.0	79.7	109.4	-29.75	Peak	VERTICAL
3	5725.0	50.4	35.6	43.4	8.0	50.6	122.2	-71.57	Average	VERTICAL
4	5725.0	80.2	35.6	43.4	8.0	80.5	122.2	-41.75	Peak	VERTICAL
5	5761.7	71.3	35.6	43.3	8.1	71.6	125.2	-53.59	Average	VERTICAL
6	5761.7	109.4	35.6	43.3	8.1	109.7	125.2	-15.50	Peak	VERTICAL
7	5850.0	41.8	35.6	43.3	8.1	42.3	122.2	-79.89	Average	VERTICAL
8	5850.0	54.7	35.6	43.3	8.1	55.2	122.2	-67.04	Peak	VERTICAL
9	5860.0	42.4	35.6	43.3	8.1	42.9	109.4	-66.55	Average	VERTICAL
10	5860.0	53.7	35.6	43.3	8.1	54.2	109.4	-16.36	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#

D:\2018 RE1# Report Data\Q18042804-1E M2\FCC
ABOVE1G 5G 5.27.EM6

Test Date : 2018-05-27

Tested By : Talent

EUT : Wi-Fi ROUTER

Model Number : M2

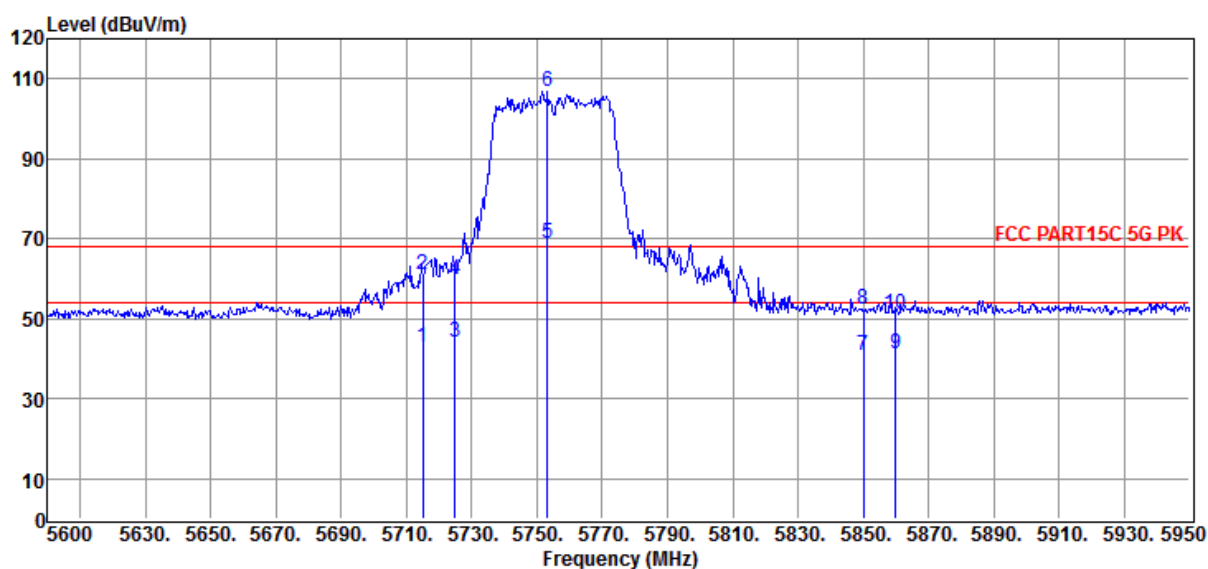
Power Supply : AC 120V/60Hz

Test Mode : Tx mode

Condition : Temp:24.5°C,Humi:55%,
Press:100.1kPa

Antenna/Distance : 2017 HF907/3m/HORIZONTAL

Memo : 11AC40 5755



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV /m)	Over Limit (dB)	Detector	Polarization
1	5715.00	42.68	35.59	43.37	8.03	42.93	109.4	-66.47	Average	HORIZONTAL
2	5715.00	60.85	35.59	43.37	8.03	61.10	109.4	-48.30	Peak	HORIZONTAL
3	5725.00	43.88	35.59	43.37	8.04	44.14	122.2	-78.06	Average	HORIZONTAL
4	5725.00	59.69	35.59	43.37	8.04	59.95	122.2	-62.25	Peak	HORIZONTAL
5	5753.30	68.54	35.60	43.35	8.05	68.84	125.2	-56.36	Average	HORIZONTAL
6	5753.30	106.32	35.60	43.35	8.05	106.62	125.2	-18.58	Peak	HORIZONTAL
7	5850.00	40.23	35.64	43.29	8.12	40.70	122.2	-81.50	Average	HORIZONTAL
8	5850.00	51.81	35.64	43.29	8.12	52.28	122.2	-69.92	Peak	HORIZONTAL
9	5860.00	40.84	35.64	43.28	8.12	41.32	109.4	-68.08	Average	HORIZONTAL
10	5860.00	50.58	35.64	43.28	8.12	51.06	109.4	-16.36	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#

D:\2018 RE1# Report Data\Q18042804-1E M2\FCC ABOVE1G 5G 5.27.EM6

Test Date : 2018-05-27

Tested By : Talent

EUT : Wi-Fi ROUTER

Model Number : M2

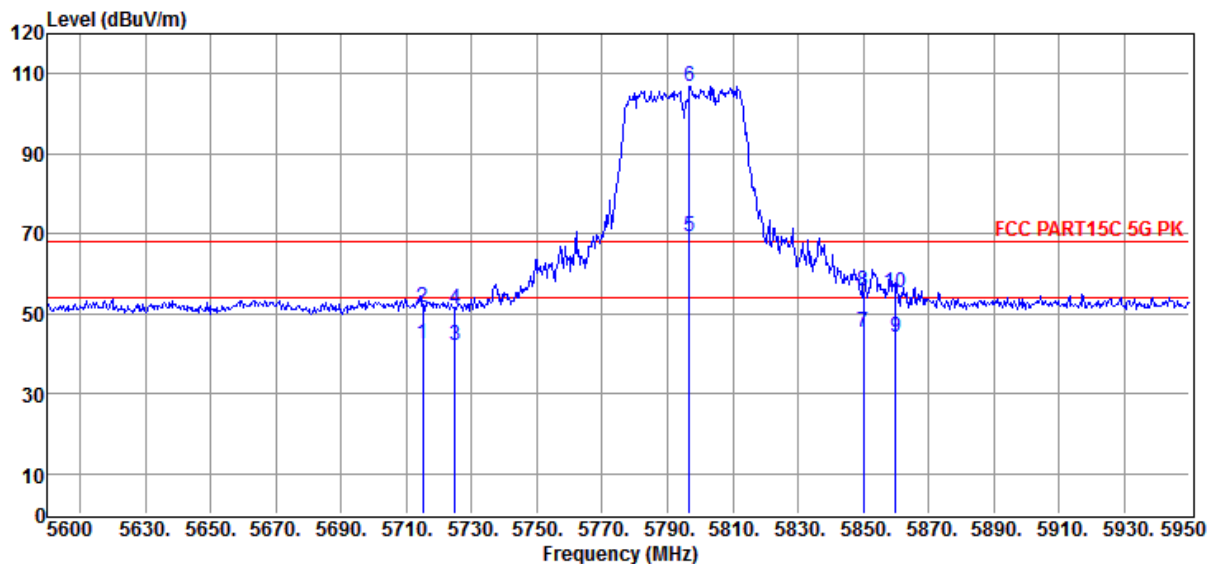
Power Supply : AC 120V/60Hz

Test Mode : Tx mode

Condition : Temp:24.5'C,Humi:55%,
Press:100.1kPa

Antenna/Distance : 2017 HF907/3m/HORIZONTAL

Memo : 11AC40 5795



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV /m)	Over Limit (dB)	Detector	Polarization
1	5715.00	42.35	35.59	43.37	8.03	42.60	109.4	-66.80	Average	HORIZONTAL
2	5715.00	51.35	35.59	43.37	8.03	51.60	109.4	-57.80	Peak	HORIZONTAL
3	5725.00	41.97	35.59	43.37	8.04	42.23	122.2	-79.97	Average	HORIZONTAL
4	5725.00	51.03	35.59	43.37	8.04	51.29	122.2	-70.91	Peak	HORIZONTAL
5	5796.70	68.76	35.62	43.32	8.08	69.14	125.2	-56.06	Average	HORIZONTAL
6	5796.70	106.58	35.62	43.32	8.08	106.96	125.2	-18.24	Peak	HORIZONTAL
7	5850.00	44.96	35.64	43.29	8.12	45.43	122.2	-76.77	Average	HORIZONTAL
8	5850.00	55.07	35.64	43.29	8.12	55.54	122.2	-66.66	Peak	HORIZONTAL
9	5860.00	43.52	35.64	43.28	8.12	44.00	109.4	-65.40	Average	HORIZONTAL
10	5860.00	54.94	35.64	43.28	8.12	55.42	109.4	-16.36	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#

D:\2018 RE1# Report Data\Q18042804-1E M2\FCC
ABOVE1G 5G 5.27.EM6

Test Date : 2018-05-27

Tested By : Talent

EUT : Wi-Fi ROUTER

Model Number : M2

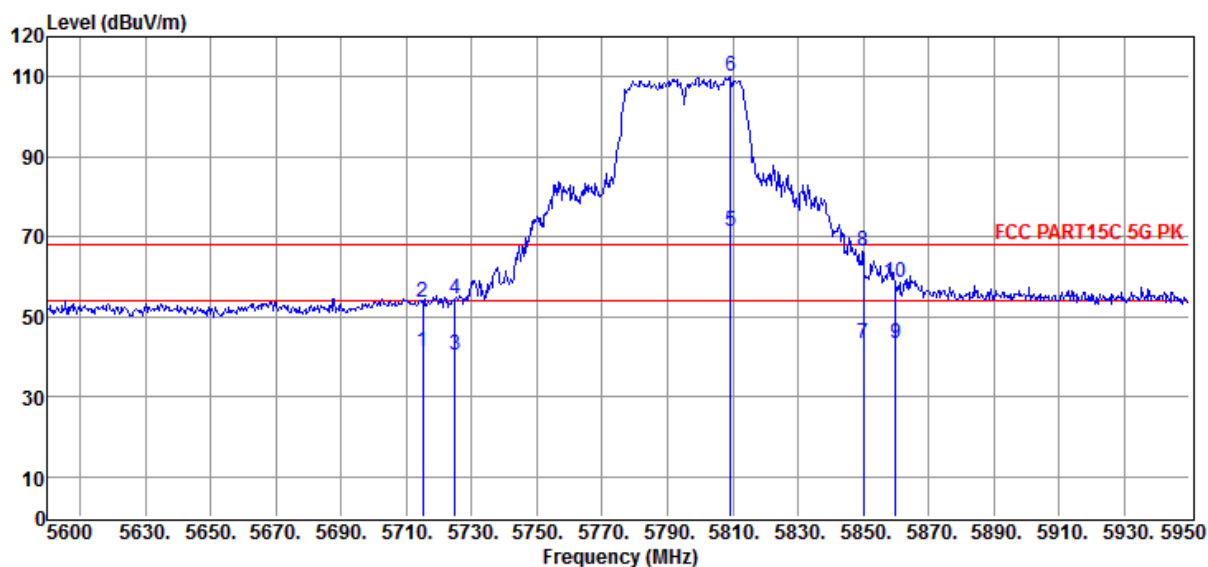
Power Supply : AC 120V/60Hz

Test Mode : Tx mode

Condition : Temp:24.5'C,Humi:55%,
Press:100.1kPa

Antenna/Distance : 2017 HF907/3m/VERTICAL

Memo : 11AC40 5795



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV /m)	Over Limit (dB)	Detector	Polarization
1	5715.00	40.89	35.59	43.37	8.03	41.14	109.4	-68.26	Average	VERTICAL
2	5715.00	53.16	35.59	43.37	8.03	53.41	109.4	-55.99	Peak	VERTICAL
3	5725.00	40.34	35.59	43.37	8.04	40.60	122.2	-81.60	Average	VERTICAL
4	5725.00	54.30	35.59	43.37	8.04	54.56	122.2	-67.64	Peak	VERTICAL
5	5809.30	70.94	35.62	43.31	8.09	71.34	125.2	-53.86	Average	VERTICAL
6	5809.30	109.81	35.62	43.31	8.09	110.21	125.2	-14.99	Peak	VERTICAL
7	5850.00	42.91	35.64	43.29	8.12	43.38	122.2	-78.82	Average	VERTICAL
8	5850.00	66.12	35.64	43.29	8.12	66.59	122.2	-55.61	Peak	VERTICAL
9	5860.00	42.79	35.64	43.28	8.12	43.27	109.4	-66.13	Average	VERTICAL
10	5860.00	57.96	35.64	43.28	8.12	58.44	109.4	-16.36	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

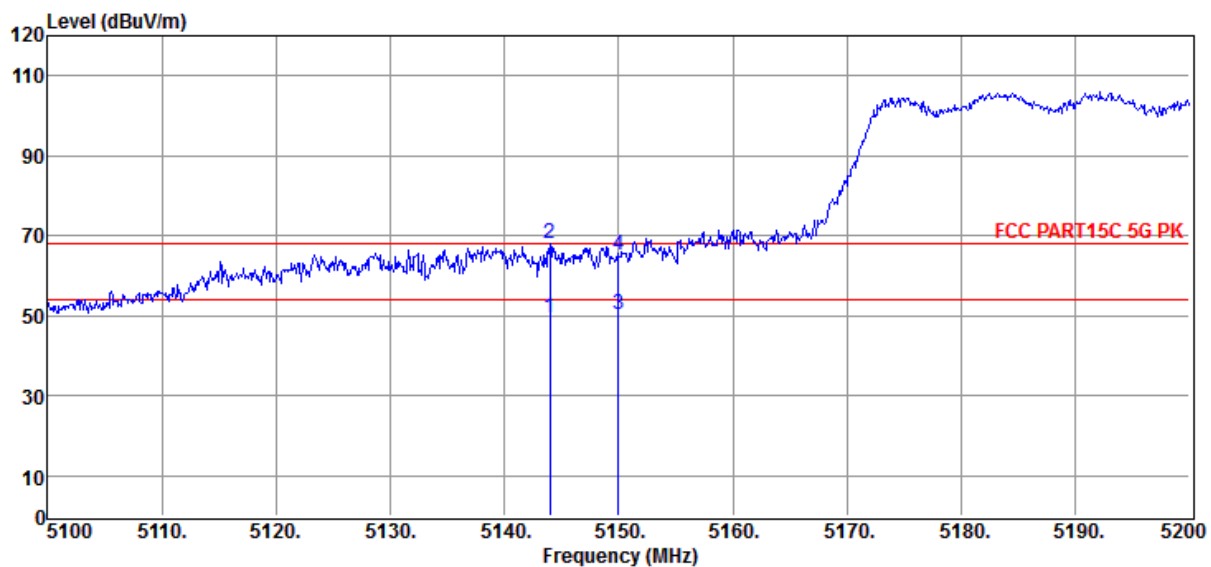
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#
Test Date : 2018-05-27
EUT : Wi-Fi ROUTER
Power Supply : AC 120V/60Hz
Condition : Temp:24.5'C,Humi:55%,
 Press:100.1kPa
Memo : 11AC80 5210

D:\2018 RE1# Report Data\Q18042804-1E M2\FCC
 ABOVE1G 5G 5.27.EM6
Tested By : Talent
Model Number : M2
Test Mode : Tx mode
Antenna/Distance : 2017 HF907/3m/VERTICAL

Data: 108



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5144.00	50.24	35.14	43.71	7.67	49.34	54.00	-4.66	Average	VERTICAL
2	5144.00	68.80	35.14	43.71	7.67	67.90	68.20	-0.30	Peak	VERTICAL
3	5150.00	51.04	35.15	43.71	7.67	50.15	54.00	-3.85	Average	VERTICAL
4	5150.00	66.01	35.15	43.71	7.67	65.12	68.20	-3.08	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#

D:\2018 RE1# Report Data\Q18042804-1E M2\FCC
ABOVE1G 5G 5.27.EM6

Test Date : 2018-05-27

Tested By : Talent

EUT : Wi-Fi ROUTER

Model Number : M2

Power Supply : AC 120V/60Hz

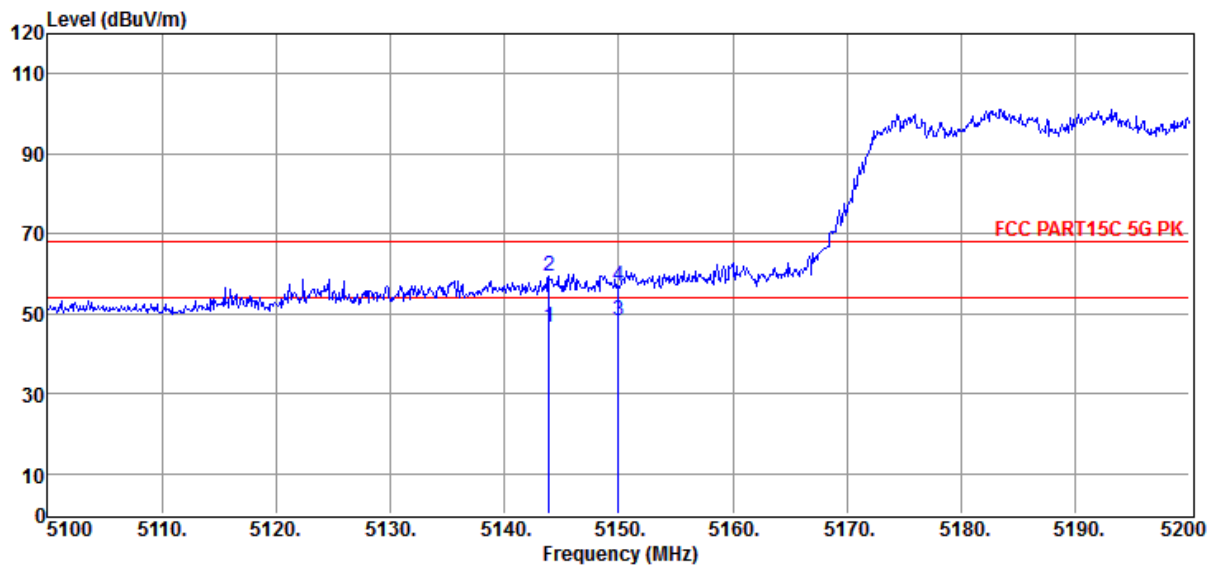
Test Mode : Tx mode

Condition : Temp:24.5'C,Humi:55%,
Press:100.1kPa

Antenna/Distance : 2017 HF907/3m/HORIZONTAL

Memo : 11AC80 5210

Data: 109



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV /m)	Over Limit (dB)	Detector	Polarization
1	5143.90	47.70	35.14	43.71	7.67	46.80	54.00	-7.20	Average	HORIZONTAL
2	5143.90	60.44	35.14	43.71	7.67	59.54	68.20	-8.66	Peak	HORIZONTAL
3	5150.00	48.97	35.15	43.71	7.67	48.08	54.00	-5.92	Average	HORIZONTAL
4	5150.00	57.89	35.15	43.71	7.67	57.00	68.20	-11.20	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#

D:\2018 RE1# Report Data\Q18042804-1E M2\FCC
ABOVE1G 5G 5.27.EM6

Test Date : 2018-05-27

Tested By : Talent

EUT : Wi-Fi ROUTER

Model Number : M2

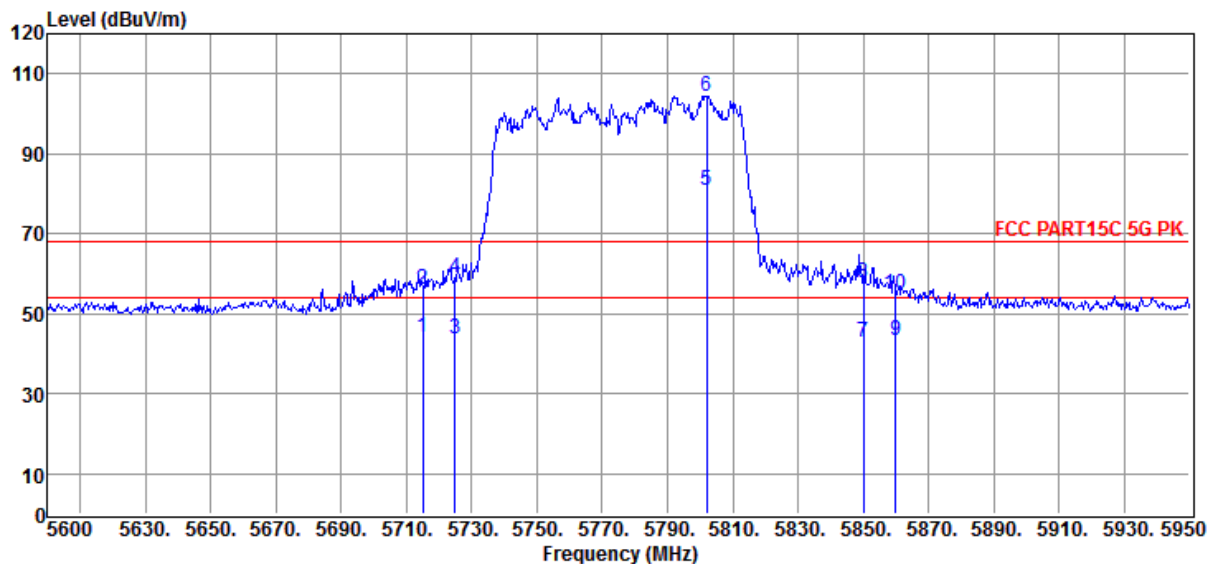
Power Supply : AC 120V/60Hz

Test Mode : Tx mode

Condition : Temp:24.5'C,Humi:55%,
Press:100.1kPa

Antenna/Distance : 2017 HF907/3m/HORIZONTAL

Memo : 11AC80 5775



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV /m)	Over Limit (dB)	Detector	Polarization
1	5715.00	43.95	35.59	43.37	8.03	44.20	109.4	-65.20	Average	HORIZONTAL
2	5715.00	55.99	35.59	43.37	8.03	56.24	109.4	-53.16	Peak	HORIZONTAL
3	5725.00	43.44	35.59	43.37	8.04	43.70	122.2	-78.50	Average	HORIZONTAL
4	5725.00	58.71	35.59	43.37	8.04	58.97	122.2	-63.23	Peak	HORIZONTAL
5	5801.95	80.62	35.62	43.32	8.09	81.01	125.2	-44.19	Average	HORIZONTAL
6	5801.95	104.08	35.62	43.32	8.09	104.47	125.2	-20.73	Peak	HORIZONTAL
7	5850.00	42.33	35.64	43.29	8.12	42.80	122.2	-79.40	Average	HORIZONTAL
8	5850.00	57.34	35.64	43.29	8.12	57.81	122.2	-64.39	Peak	HORIZONTAL
9	5860.00	42.63	35.64	43.28	8.12	43.11	109.4	-66.29	Average	HORIZONTAL
10	5860.00	54.28	35.64	43.28	8.12	54.76	109.4	-16.36	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#

D:\2018 RE1# Report Data\Q18042804-1E M2\FCC ABOVE1G 5G 5.27.EM6

Test Date : 2018-05-27

Tested By : Talent

EUT : Wi-Fi ROUTER

Model Number : M2

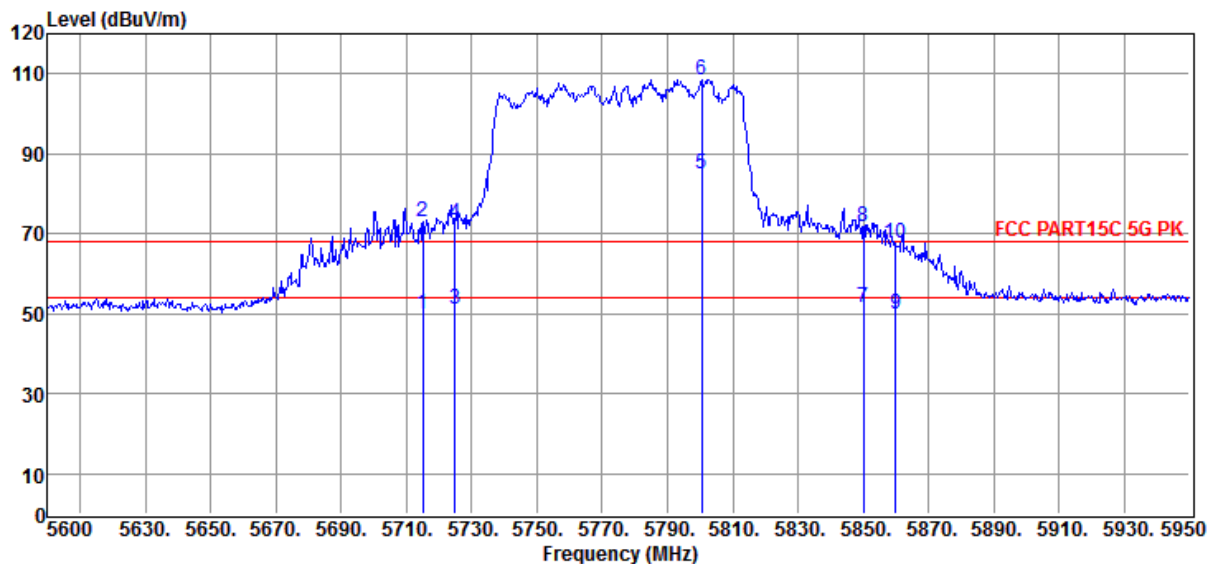
Power Supply : AC 120V/60Hz

Test Mode : Tx mode

Condition : Temp:24.5'C,Humi:55%,
Press:100.1kPa

Antenna/Distance : 2017 HF907/3m/VERTICAL

Memo : 11AC80 5775



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV /m)	Over Limit (dB)	Detector	Polarization
1	5715.00	49.60	35.59	43.37	8.03	49.85	109.4	-59.55	Average	VERTICAL
2	5715.00	72.89	35.59	43.37	8.03	73.14	109.4	-36.26	Peak	VERTICAL
3	5725.00	51.00	35.59	43.37	8.04	51.26	122.2	-70.94	Average	VERTICAL
4	5725.00	72.29	35.59	43.37	8.04	72.55	122.2	-49.65	Peak	VERTICAL
5	5800.55	84.65	35.62	43.32	8.08	85.03	125.2	-40.17	Average	VERTICAL
6	5800.55	108.28	35.62	43.32	8.08	108.66	125.2	-16.54	Peak	VERTICAL
7	5850.00	51.10	35.64	43.29	8.12	51.57	122.2	-70.63	Average	VERTICAL
8	5850.00	71.41	35.64	43.29	8.12	71.88	122.2	-50.32	Peak	VERTICAL
9	5860.00	49.31	35.64	43.28	8.12	49.79	109.4	-59.61	Average	VERTICAL
10	5860.00	67.17	35.64	43.28	8.12	67.65	109.4	-16.36	Peak	VERTICAL

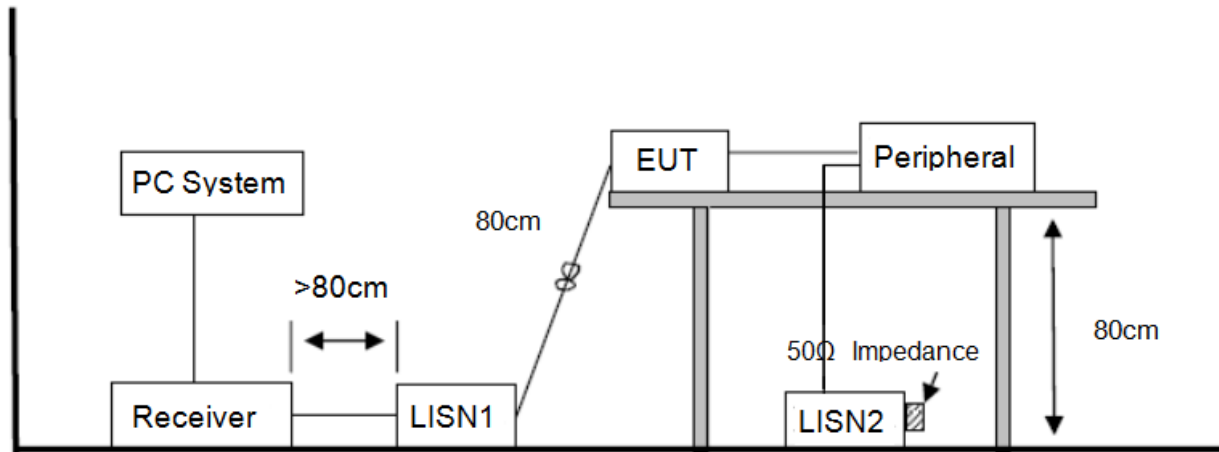
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

10. Power Line Conducted Emission

10.1. Block diagram of test setup



10.2. Power Line Conducted Emission Limits(Class B)

Frequency	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Note 1: * Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.

10.3. Test Procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80cm above the ground plane.

Configuration EUT to simulate typical usage as described in clause 2.3 and test equipment as described in clause 10.2 of this report.

All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in clause 2.3 were scanned during the preliminary test.

After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 kHz.

10.4. Test Result

PASS. (See below detailed test result)

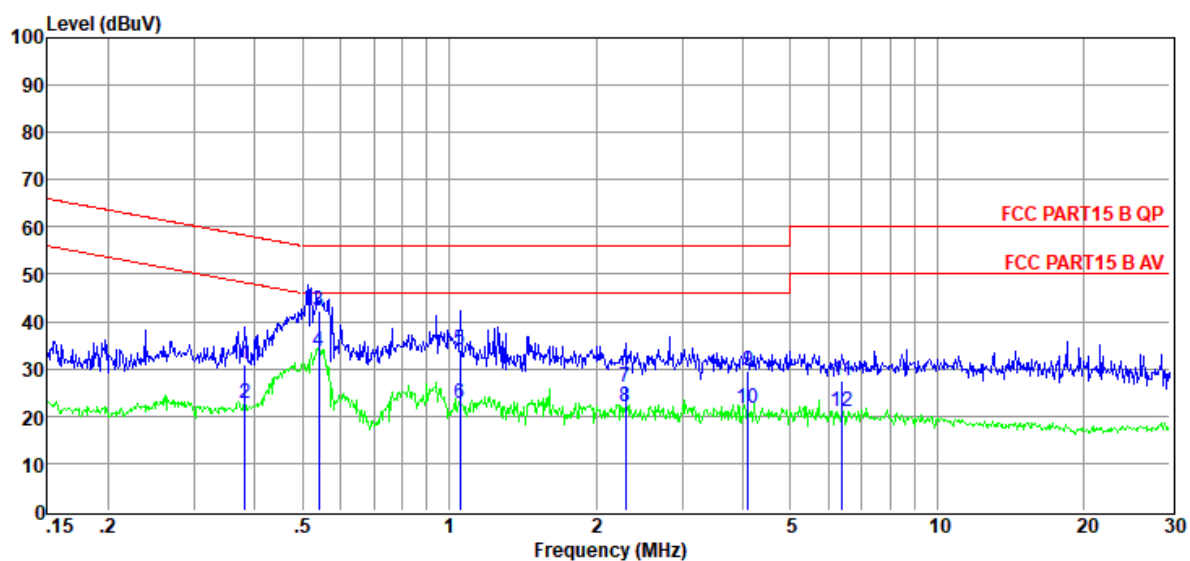
Note1: All emissions not reported below are too low against the prescribed limits.

Note2: "----" means peak detection; "----" means average detection

Note3: Pre-test AC conducted emission at both voltage AC 120V/60Hz and AC 240V/50Hz, recorded worst case.

TR-4-E-010 Conducted Emission Test Result

Test Site	: DDT 1# Shield Room	D:\2018 CE Test Data\Y\Yi Wang\CE.EM6
Test Date	: 2018-05-31	Tested By : Shaul
EUT	: Wi-Fi ROUTER	Model Number : M2
Power Supply	: AC 120V/60Hz	Test Mode : Tx mode
Condition	: Temp:24.5°C,Humi:55%, Press:100.1kPa	LISN : 2017 ENV216/LINE
Memo	:	



Item	Freq.	Read Level	LISN Factor	Cable Loss	Pulse Limiter Factor	Result Level	Limit Line	Over Limit	Detector	Phase
(Mark)	(MHz)	(dBμV)	(dB)	(dB)	(dB)	(dBμV)	(dBμV)	(dB)		
1	0.38	11.64	9.53	0.04	9.83	31.04	58.25	-27.21	QP	LINE
2	0.38	3.35	9.53	0.04	9.83	22.75	48.25	-25.50	Average	LINE
3	0.54	22.84	9.54	0.05	9.81	42.24	56.00	-13.76	QP	LINE
4	0.54	14.32	9.54	0.05	9.81	33.72	46.00	-12.28	Average	LINE
5	1.05	14.41	9.57	0.14	9.86	33.98	56.00	-22.02	QP	LINE
6	1.05	3.22	9.57	0.14	9.86	22.79	46.00	-23.21	Average	LINE
7	2.30	6.40	9.61	0.12	9.87	26.00	56.00	-30.00	QP	LINE
8	2.30	2.51	9.61	0.12	9.87	22.11	46.00	-23.89	Average	LINE
9	4.09	9.90	9.63	0.10	9.87	29.50	56.00	-26.50	QP	LINE
10	4.09	1.92	9.63	0.10	9.87	21.52	46.00	-24.48	Average	LINE
11	6.39	7.82	9.69	0.11	9.88	27.50	60.00	-32.50	QP	LINE
12	6.39	1.45	9.69	0.11	9.88	21.13	50.00	-28.87	Average	LINE

Note: 1. Result Level = Read Level + LISN Factor + Pulse Limiter Factor + Cable loss.

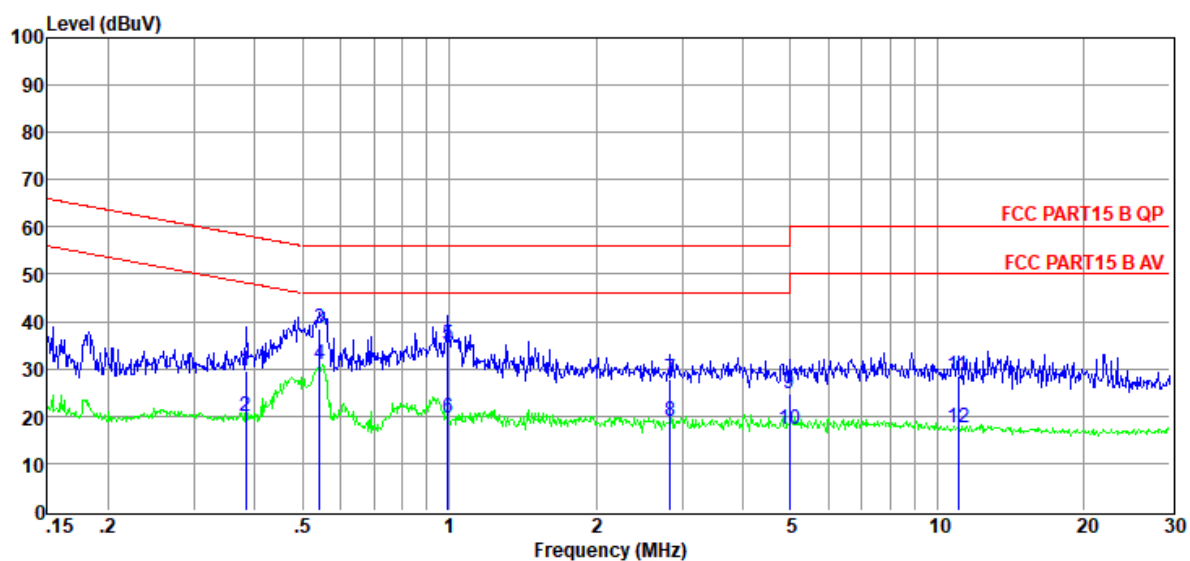
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).

4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

TR-4-E-010 Conducted Emission Test Result

Test Site	: DDT 1# Shield Room	D:\2018 CE Test Data\Y\Yi Wang\CE.EM6
Test Date	: 2018-05-31	Tested By : Shaul
EUT	: Wi-Fi ROUTER	Model Number : M2
Power Supply	: AC 120V/60Hz	Test Mode : Tx mode
Condition	: Temp:24.5°C,Humi:55%, Press:100.1kPa	LISN : 2017 ENV216/NEUTRAL
Memo	:	



Item	Freq.	Read Level	LISN Factor	Cable Loss	Pulse Limiter Factor	Result Level	Limit Line	Over Limit	Detector	Phase
(Mark)	(MHz)	(dBμV)	(dB)	(dB)	(dB)	(dBμV)	(dBμV)	(dB)		
1	0.38	10.15	9.37	0.04	9.83	29.39	58.21	-28.82	QP	NEUTRAL
2	0.38	0.57	9.37	0.04	9.83	19.81	48.21	-28.40	Average	NEUTRAL
3	0.54	19.17	9.34	0.05	9.81	38.37	56.00	-17.63	QP	NEUTRAL
4	0.54	11.63	9.34	0.05	9.81	30.83	46.00	-15.17	Average	NEUTRAL
5	0.99	15.78	9.30	0.14	9.86	35.08	56.00	-20.92	QP	NEUTRAL
6	0.99	0.17	9.30	0.14	9.86	19.47	46.00	-26.53	Average	NEUTRAL
7	2.84	8.61	9.32	0.11	9.87	27.91	56.00	-28.09	QP	NEUTRAL
8	2.84	-0.40	9.32	0.11	9.87	18.90	46.00	-27.10	Average	NEUTRAL
9	4.98	5.57	9.28	0.10	9.87	24.82	56.00	-31.18	QP	NEUTRAL
10	4.98	-2.03	9.28	0.10	9.87	17.22	46.00	-28.78	Average	NEUTRAL
11	11.02	9.04	9.44	0.12	9.90	28.50	60.00	-31.50	QP	NEUTRAL
12	11.02	-1.82	9.44	0.12	9.90	17.64	50.00	-32.36	Average	NEUTRAL

Note: 1. Result Level = Read Level + LISN Factor + Pulse Limiter Factor + Cable loss.

2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).

4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

TR-4-E-010 Conducted Emission Test Result

: DDT 1# Shield Room

D:\2019 CE report data\Q19080706-1E\20190830 CE.EM6

Test Date : 2019-08-30

Tested By : Eddie

EUT : Wi-Fi ROUTER

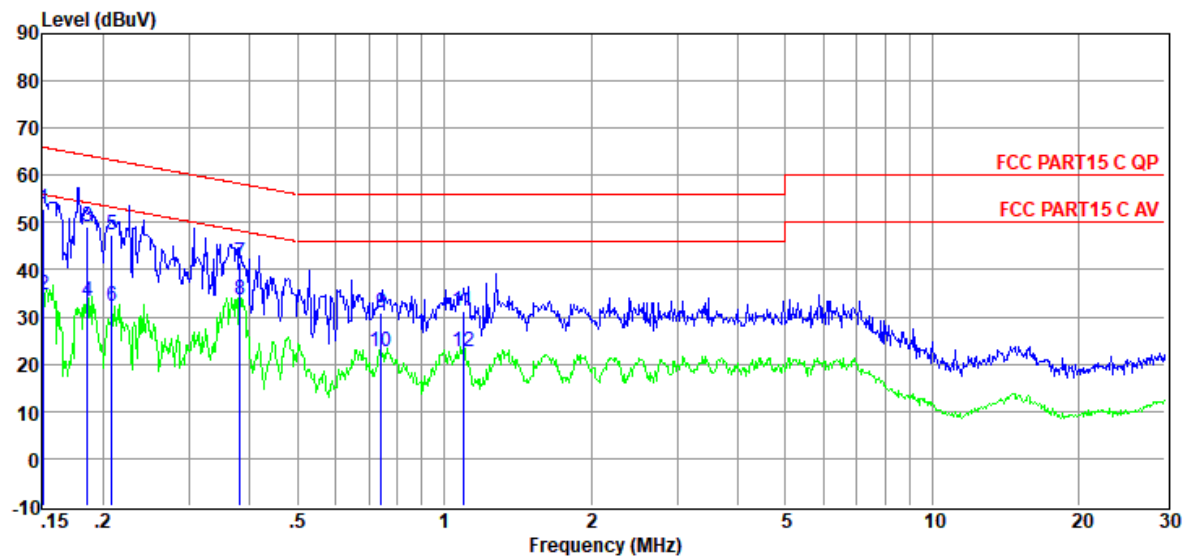
Model Number : M2

Power Supply : AC 120V/60Hz with new Adapter

Test Mode : Tx mode

Condition : Temp:24.5°C,Humi:55%,Press:101.4KPa LISN : 2018 ENV216/NEUTRAL

Memo :



Item	Freq.	Read Level	LISN Factor	Cable Loss	Pulse Limiter Factor	Result Level	Limit Line	Over Limit	Detector	Phase
(Mark)	(MHz)	(dBμV)	(dB)	(dB)	(dB)	(dBμV)	(dBμV)	(dB)		
1	0.15	33.46	9.64	0.02	9.86	52.98	65.96	-12.98	QP	NEUTRAL
2	0.15	15.15	9.64	0.02	9.86	34.67	55.96	-21.29	Average	NEUTRAL
3	0.19	29.70	9.64	0.02	9.86	49.22	64.24	-15.02	QP	NEUTRAL
4	0.19	13.69	9.64	0.02	9.86	33.21	54.24	-21.03	Average	NEUTRAL
5	0.21	27.88	9.64	0.02	9.86	47.40	63.27	-15.87	QP	NEUTRAL
6	0.21	12.60	9.64	0.02	9.86	32.12	53.27	-21.15	Average	NEUTRAL
7	0.38	22.14	9.64	0.02	9.86	41.66	58.25	-16.59	QP	NEUTRAL
8	0.38	14.24	9.64	0.02	9.86	33.76	48.25	-14.49	Average	NEUTRAL
9	0.74	11.37	9.64	0.04	9.86	30.91	56.00	-25.09	QP	NEUTRAL
10	0.74	3.20	9.64	0.04	9.86	22.74	46.00	-23.26	Average	NEUTRAL
11	1.09	11.63	9.64	0.09	9.87	31.23	56.00	-24.77	QP	NEUTRAL
12	1.09	2.88	9.64	0.09	9.87	22.48	46.00	-23.52	Average	NEUTRAL

Note: 1. Result Level = Read Level + LISN Factor + Pulse Limiter Factor + Cable loss.

2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).

4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

TR-4-E-010 Conducted Emission Test Result

: DDT 1# Shield Room

D:\2019 CE report data\Q19080706-1E\20190830 CE.EM6

Test Date : 2019-08-30

Tested By : Eddie

EUT : Wi-Fi ROUTER

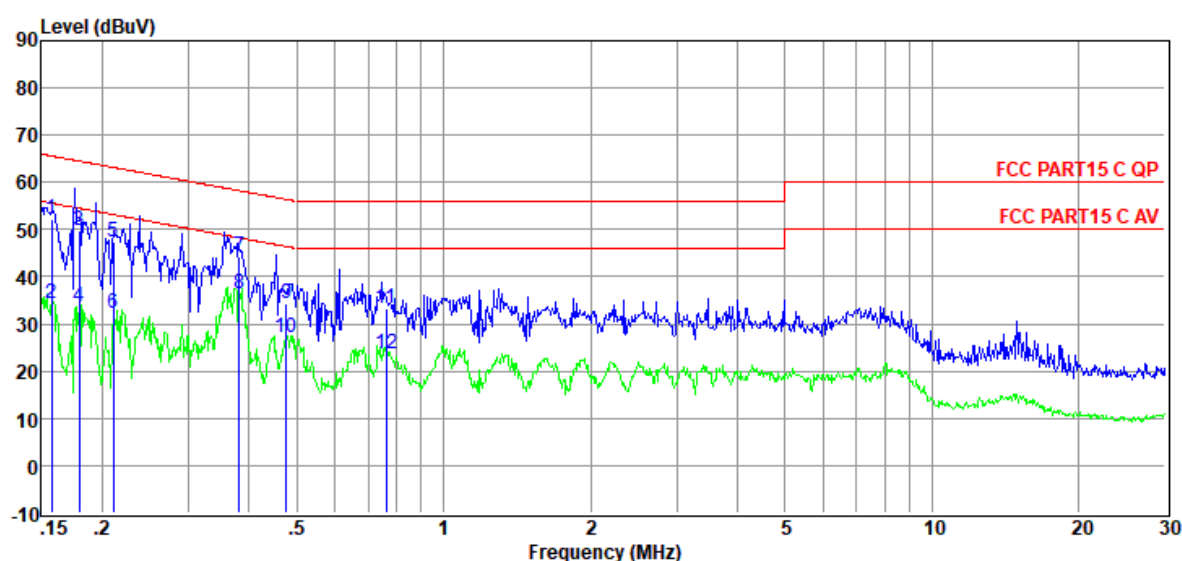
Model Number : M2

Power Supply : AC 120V/60Hz with new Adapter

Test Mode : Tx mode

Condition : Temp:24.5°C,Humi:55%,Press:101.4KPa LISN : 2018 ENV216/LINE

Memo :



Item	Freq.	Read Level	LISN Factor	Cable Loss	Pulse Limiter Factor	Result Level	Limit Line	Over Limit	Detector	Phase
(Mark)	(MHz)	(dBμV)	(dB)	(dB)	(dB)	(dBμV)	(dBμV)	(dB)		
1	0.16	32.55	9.63	0.02	9.86	52.06	65.60	-13.54	QP	LINE
2	0.16	14.91	9.63	0.02	9.86	34.42	55.60	-21.18	Average	LINE
3	0.18	30.45	9.63	0.02	9.86	49.96	64.50	-14.54	QP	LINE
4	0.18	13.97	9.63	0.02	9.86	33.48	54.50	-21.02	Average	LINE
5	0.21	27.91	9.63	0.02	9.86	47.42	63.18	-15.76	QP	LINE
6	0.21	12.70	9.63	0.02	9.86	32.21	53.18	-20.97	Average	LINE
7	0.38	24.63	9.64	0.02	9.86	44.15	58.25	-14.10	QP	LINE
8	0.38	16.82	9.64	0.02	9.86	36.34	48.25	-11.91	Average	LINE
9	0.48	14.98	9.64	0.02	9.86	34.50	56.41	-21.91	QP	LINE
10	0.48	7.75	9.64	0.02	9.86	27.27	46.41	-19.14	Average	LINE
11	0.76	13.65	9.64	0.04	9.86	33.19	56.00	-22.81	QP	LINE
12	0.76	4.23	9.64	0.04	9.86	23.77	46.00	-22.23	Average	LINE

Note: 1. Result Level = Read Level + LISN Factor + Pulse Limiter Factor + Cable loss.

2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).

4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

11. Antenna Requirements

11.1. Limit

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.407 (a), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

11.2. Result

The antennas used for this product are integrated antenna and other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is -1dBi.

END OF REPORT