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# TEST REPORT

**FCC ID: 2AIZN-X620B**

**Product: Mobile phone**

**Model No.: X620B**

**Additional Model No.: N/A**

**Trade Mark: Infinix**

**Report No.: FCC18070037A-5GWi-Fi**

**Issued Date: July 27, 2018**

**Issued for:**

**INFINIX MOBILITY LIMITED  
RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17  
CANTON RD TST KLN HONG KONG**

**Issued By:**

**World Standardization Certification & Testing Group Co., Ltd.  
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# 1. GENERAL INFORMATION

<b>Product:</b>	Mobile phone
<b>Model No.:</b>	X620B
<b>Additional Model:</b>	N/A
<b>Applicant:</b>	INFINIX MOBILITY LIMITED
<b>Address:</b>	RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG
<b>Manufacturer:</b>	SHENZHEN TECNO TECHNOLOGY CO.,LTD.
<b>Address:</b>	1/F-4/F,7/F, BUILDING 3, TAIPINGYANG INDUSTRIAL ZONE, NO.2088, SHENYAN ROAD, YANTIAN DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE, P.R.C
<b>Data of receipt:</b>	July 16, 2018
<b>Date of Test:</b>	July 16, 2018 to July 25, 2018
<b>Applicable Standards:</b>	FCC Rules Part15 Subpart E

The above equipment has been tested by World Standardization Certification & Testing Group Co., Ltd. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

**Tested By:** Pu Shixi  
(Pu Shixi)

**Date:** July 27, 2018

**Check By:** Qin Shuiquan  
(Qin Shuiquan)

**Date:** July 27, 2018

**Approved By:** Wang Fengbing  
(Wang Fengbing)

**Date:** July 27, 2018





### 1.1 GENERAL DESCRIPTION OF EUT

Equipment Type:	Mobile phone
Test Model:	X620B
Additional Model:	N/A
Trade Mark	Infinix
Applicant:	INFINIX MOBILITY LIMITED
Address:	RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG
Manufacturer:	SHENZHEN TECNO TECHNOLOGY CO.,LTD.
Address:	1/F-4/F,7/F, BUILDING 3, TAIPINGYANG INDUSTRIAL ZONE, NO.2088, SHENYAN ROAD, YANTIAN DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE, P.R.C
Hardware version:	V2.1
Software version:	X620B-Q6361A-O-180702V06
Extreme Temp. Tolerance:	-10°C to +65°C
Battery information:	Li-Polymer Battery : BL-35BX Voltage: 3.85V Capacity: 3550mAh/3650mAh(min/typ) Limited Charge Voltage: 4.4V
Adapter Information:	Adapter: CQ-18VX Input: AC 100-240V 50/60Hz 0.5A Output: DC 5.0V---3.0A/ 9.0V---2.0A/ 12.0V---1.5A
Operating Frequency	see the below table
Channels	see the below table
Channel Spacing	see the below table
Modulation Type	see the below table
Antenna Type:	Integral Antenna
Antenna gain:	-1.5dBi
Deviation	None
Condition of Test Sample	Normal





### 1.2 EUT SPECIFICATION:

Items	Description
<b>Modulation</b>	IEEE 802.11a: OFDM IEEE 802.11n: see the below table IEEE 802.11ac: see the below table
<b>Data Modulation</b>	IEEE 802.11n: OFDM (BPSK / QPSK / 16QAM / 64QAM) IEEE 802.11ac: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)
<b>Data Rate (Mbps)</b>	IEEE 802.11a: OFDM 6,9,12,18,24,36,48, and 54 Mbps IEEE 802.11n: MCS 0-15 up to 150 Mbps IEEE 802.11ac: MCS 0-9 up to 866.7 Mbps
<b>Frequency Range</b>	Band 1: 5150 MHz ~ 5250 MHz Band 4: 5725 MHz ~ 5850 MHz
<b>Channel Number</b>	13for 20MHz bandwidth ; 6 for 40MHz bandwidth ;
<b>Communication Mode</b>	<input checked="" type="checkbox"/> IP Based (Load Based) <input type="checkbox"/> Frame Based
<b>TPC Function</b>	<input type="checkbox"/> With TPC <input checked="" type="checkbox"/> Without TPC
<b>Weather Band</b>	<input type="checkbox"/> With 5600~5650MHz <input checked="" type="checkbox"/> Without 5600~5650MHz
<b>Beamforming Function</b>	<input type="checkbox"/> With beamforming <input checked="" type="checkbox"/> Without beamforming
<b>Operating Mode</b>	<input type="checkbox"/> Outdoor access point <input type="checkbox"/> Indoor access point
	<input type="checkbox"/> Fixed point-to-point access points <input checked="" type="checkbox"/> Mobile and portable client devices
	<input type="checkbox"/> Master <input type="checkbox"/> Slave with radar detection
	<input type="checkbox"/> Slave without radar detection

Antenna	One (TX)		
	20 MHz	40 MHz	80 MHz
<b>Band width Mode</b>	20 MHz	40 MHz	80 MHz
<b>IEEE 802.11a</b>	V	X	X
<b>IEEE 802.11n</b>	V	V	X
<b>IEEE 802.11ac</b>	V	V	V

Protocol	Number of Transmit Chains (NTX)	Data Rate / MCS
<b>802.11n (HT20)</b>	1	MCS 0-15
<b>802.11n (HT40)</b>	1	MCS 0-15
<b>802.11ac (HT20)</b>	1	MCS 0-9
<b>802.11ac (HT40)</b>	1	MCS 0-9
<b>802.11ac (HT80)</b>	1	MCS 0-9

Note 1: IEEE Std. 802.11n modulation consists of HT20 and HT40 and HT80 (HT: High Throughput). Then EUT supports HT20 and HT40 and HT80.

Note 2: Modulation modes consist of below configuration:

HT20/HT40: IEEE 802.11n

HT20/HT40/HT80: IEEE 802.11ac





## 2.FACILITIES AND ACCREDITATIONS

All measurement facilities used to collect the measurement data are located at **Building A-B, Baoshi Science & Technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China of the World Standardization Certification & Testing Group Co., Ltd**

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

**Registration Number: 366353**

### 2.1 ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

- USA** NVLAP (The certificate registration number is NVLAP LAB CODE:600142-0)
- Japan** VCCI (The certificate registration number is C-4790, R-3684, G-837)
- Canada** INDUSTRY CANADA (The certificated registration number is 7700A-1)
- China** CNAS (The certificated registration number is L3732)

Copies of granted accreditation certificates are available for downloading from our web site, <http://www.wsct-cert.com>





### 3.TEST DESCRIPTION

#### 3.1MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$  , where expended uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$  , providing a level of confidence of approximately **95 %** .

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 3.2\text{dB}$
2	RF power,conducted	$\pm 0.16\text{dB}$
3	Spurious emissions,conducted	$\pm 0.21\text{dB}$
4	All emissions,radiated(<1G)	$\pm 4.7\text{dB}$
5	All emissions,radiated(>1G)	$\pm 4.7\text{dB}$
6	Temperature	$\pm 0.5^{\circ}\text{C}$
7	Humidity	$\pm 2\%$





### 3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	802.11a
Mode 2	802.11n20
Mode 3	802.11n40
Mode 4	802.11ac20
Mode 5	802.11ac40
Mode 6	802.11ac80

For Conducted Emission	
Final Test Mode	Description
Mode 1	802.11a

For Radiated Emission	
Final Test Mode	Description
Mode 1	802.11a
Mode 2	802.11n20
Mode 3	802.11n40
Mode 4	802.11ac20
Mode 5	802.11ac40
Mode 6	802.11ac80

Note:

- (1) *The measurements are performed at the highest, lowest available channels.*
- (2) *The EUT use new battery.*
- (3) *Record the worst case of each test item in this report.*
- (4) *When we test the equipment, duty cycle ≥ 98%.*







### 3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

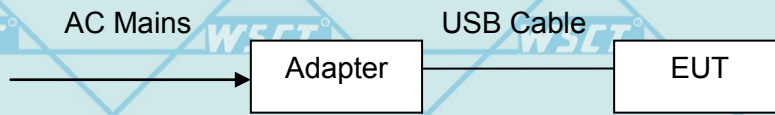
During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of FHSS

Test Software	N/A											
Test program	***#2008#**											
Mode	Test Frequency (MHz)											
	NCB: 20MHz											
802.11a	5180 MHz	5200 MHz	5240 MHz	5825 MHz	5785 MHz	5745 MHz						
802.11n MCS0 VHT20	5180 MHz	5200 MHz	5240 MHz	5825 MHz	5785 MHz	5745 MHz						
802.11ac MCS9 VHT20	5180 MHz	5200 MHz	5240 MHz	5825 MHz	5785 MHz	5745 MHz						
Mode	NCB: 40MHz											
	802.11n MCS0 VHT40	5190 MHz	5230 MHz	5755 MHz	5795 MHz							
802.11ac MCS9 VHT40	5190 MHz	5230 MHz	5755 MHz	5795 MHz								
Mode	NCB: 80MHz											
	802.11ac MCS9 VHT80	5210 MHz	5775 MHz									
During testing, Channel and Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.												





### 3.4 CONFIGURATION OF SYSTEM UNDER TEST



(EUT: Mobile phone)

I/O Port of EUT			
I/O Port Type	Q'TY	Cable	Tested with
USB port	1	1m USB cable, unshielded	1
Power	1	1m	1

### 3.5 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

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

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
1	Adapter	/	CQ-18VX	/	/
2	Earphone	/	N/A	/	/

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.
- (4) The adapter supply by the applicant.





## 4.SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 Subpart C&E			
Standard Section	Test Item	Judgment	Remark
2.1049 15.403(i)	26dB & 99% Bandwidth	PASS	Complies
15.407(e)	6dB Spectrum Bandwidth	PASS	Complies
15.407(a)	Maximum Conducted Output Power	PASS	Complies
15.407(a)	Power Spectral Density	PASS	Complies
15.407(b)	Unwanted Emissions	PASS	Complies
15.207	AC Conducted Emission	PASS	Complies
15.407(g)	Frequency Stability	PASS	Complies
15.203 & 15.407(a)	Antenna Requirement	PASS	Complies

NOTE:

(1)" N/A" denotes test is not applicable in this test report.





## 5. MEASUREMENT INSTRUMENTS

NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	CALIBRATION DATE	CALIBRATION ON DUE.
EMI Test Receiver	R&S	ESCI	100005	08/19/2017	08/18/2018
LISN	AFJ	LS16	16010222119	08/19/2017	08/18/2018
LISN(EUT)	Mestec	AN3016	04/10040	08/19/2017	08/18/2018
Universal Radio Communication Tester	R&S	CMU 200	1100.0008.02	08/19/2017	08/18/2018
Coaxial cable	Megalon	LMR400	N/A	08/12/2017	08/11/2018
GPIB cable	Megalon	GPIB	N/A	08/12/2017	08/11/2018
Spectrum Analyzer	R&S	FSU	100114	08/19/2017	08/18/2018
Pre Amplifier	H.P.	HP8447E	2945A02715	10/13/2017	10/12/2018
Pre-Amplifier	CDSI	PAP-1G18-38	--	10/13/2017	10/12/2018
Bi-log Antenna	SUNOL Sciences	JB3	A021907	09/13/2017	09/12/2018
9*6*6 Anechoic	--	--	--	08/21/2017	08/20/2018
Horn Antenna	COMPLIANCE ENGINEERING	CE18000	--	09/13/2017	09/12/2018
Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-631	08/23/2017	08/22/2018
Cable	TIME MICROWAVE	LMR-400	N-TYPE04	04/25/2018	04/24/2019
System-Controller	CCS	N/A	N/A	N.C.R	N.C.R
Turn Table	CCS	N/A	N/A	N.C.R	N.C.R
Antenna Tower	CCS	N/A	N/A	N.C.R	N.C.R
RF cable	Murata	MXHQ87WA3000	-	08/21/2017	08/20/2018
Loop Antenna	EMCO	6502	00042960	08/22/2017	08/21/2018
Horn Antenna	SCHWARZBECK	BBHA 9170	1123	08/19/2017	08/18/2018
Power meter	Anritsu	ML2487A	6K00003613	08/23/2017	08/22/2018
Power sensor	Anritsu	MX248XD	--	08/19/2017	08/18/2018





## 6. EMC EMISSION TEST

### 6.1 CONDUCTED EMISSION MEASUREMENT

#### 6.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Conducted limit (dB $\mu$ V)		Conducted limit (dB $\mu$ V)
	Quasi-peak	Quasi-peak	
0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz





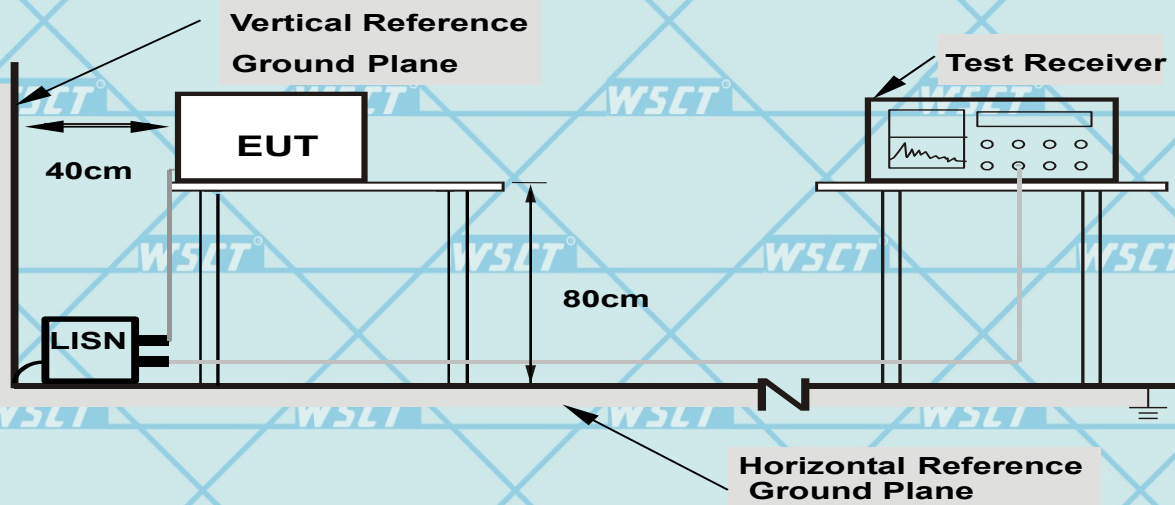
### 6.1.2 TEST PROCEDURE

- The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

### 6.1.3 DEVIATION FROM TEST STANDARD

No deviation

### 6.1.4 TEST SETUP



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

### 6.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

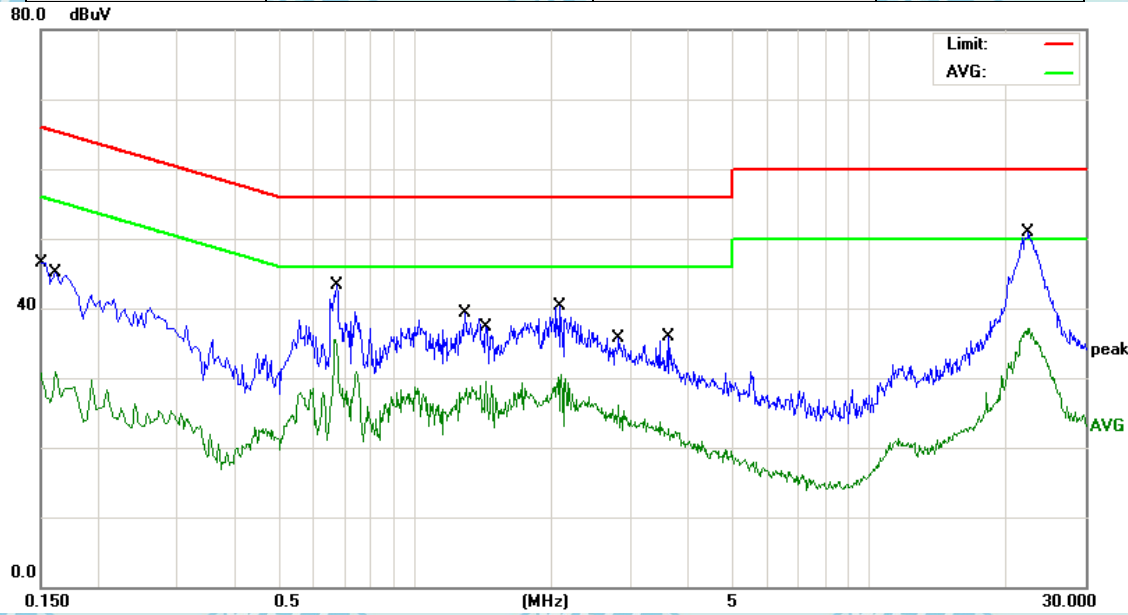




**6.1.6 TEST RESULTS**

Temperature	26 °C	Relative Humidity	54%
Pressure	1010hPa	Phase	L
Test Mode	Mode 1		

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No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.1500	31.39	10.44	41.83	65.99	-24.16	QP
2		0.1500	32.09	10.44	42.53	65.99	-23.46	QP
3		0.1620	20.46	10.44	30.90	55.36	-24.46	AVG
4	*	0.6700	25.14	10.38	35.52	46.00	-10.48	AVG
5		0.6740	29.71	10.38	40.09	56.00	-15.91	QP
6		1.2940	22.63	10.33	32.96	56.00	-23.04	QP
7		1.4340	19.15	10.32	29.47	46.00	-16.53	AVG
8		2.0980	24.63	10.29	34.92	56.00	-21.08	QP
9		2.1020	20.18	10.29	30.47	46.00	-15.53	AVG
10		2.8179	15.83	10.27	26.10	46.00	-19.90	AVG
11		3.6100	17.22	10.26	27.48	56.00	-28.52	QP
12		22.3860	27.00	10.11	37.11	50.00	-12.89	AVG
13		22.4500	35.66	10.11	45.77	60.00	-14.23	QP

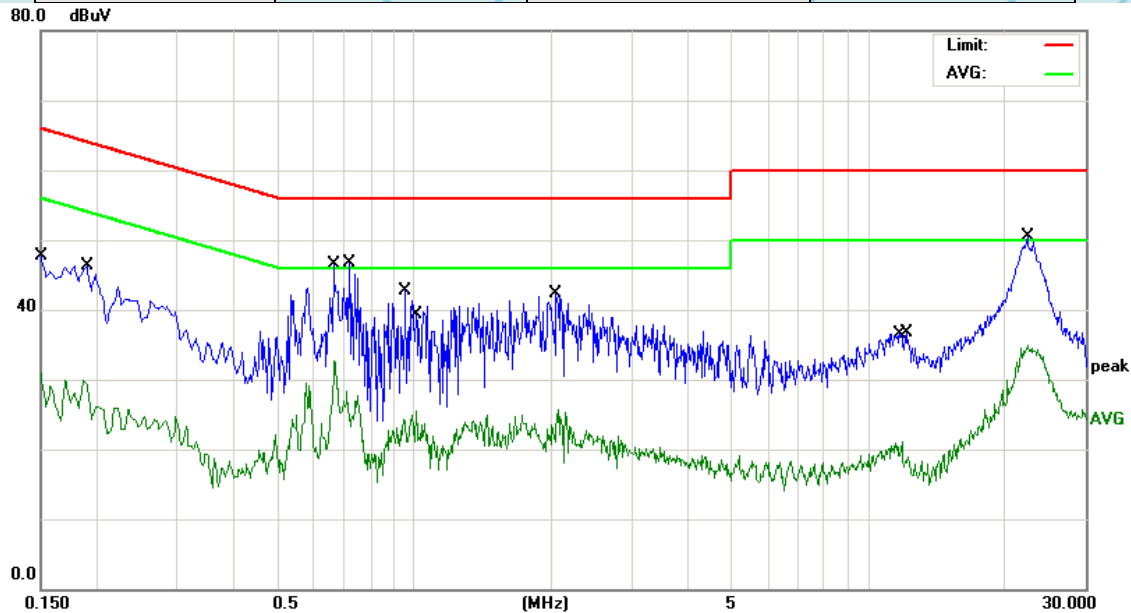
Remark: All the modes have been investigated, and only one mode is presented in this report.





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Temperature	26 °C	Relative Humidity	54%
Pressure	1010hPa	Phase	N
Test Mode	Mode 1		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1500	20.38	10.44	30.82	55.99	-25.17	AVG
2		0.1900	28.66	10.44	39.10	64.03	-24.93	QP
3	*	0.6660	22.31	10.38	32.69	46.00	-13.31	AVG
4		0.7180	25.22	10.37	35.59	56.00	-20.41	QP
5		0.9540	21.95	10.35	32.30	56.00	-23.70	QP
6		1.0060	15.08	10.34	25.42	46.00	-20.58	AVG
7		2.0540	25.71	10.29	36.00	56.00	-20.00	QP
8		2.0660	15.48	10.29	25.77	46.00	-20.23	AVG
9		11.8300	10.95	10.18	21.13	50.00	-28.87	AVG
10		12.1140	18.27	10.17	28.44	60.00	-31.56	QP
11		22.3819	36.03	10.11	46.14	60.00	-13.86	QP
12		22.5060	24.69	10.11	34.80	50.00	-15.20	AVG

Remark: All the modes have been investigated, and only worst mode is presented in this report.







## 6.2 RADIATED EMISSION MEASUREMENT

### 6.2.1 Radiated Emission Limits (Frequency Range 9kHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

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

#### LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 1Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP





## 6.2.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

***Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported***

## 6.2.3 DEVIATION FROM TEST STANDARD

No deviation

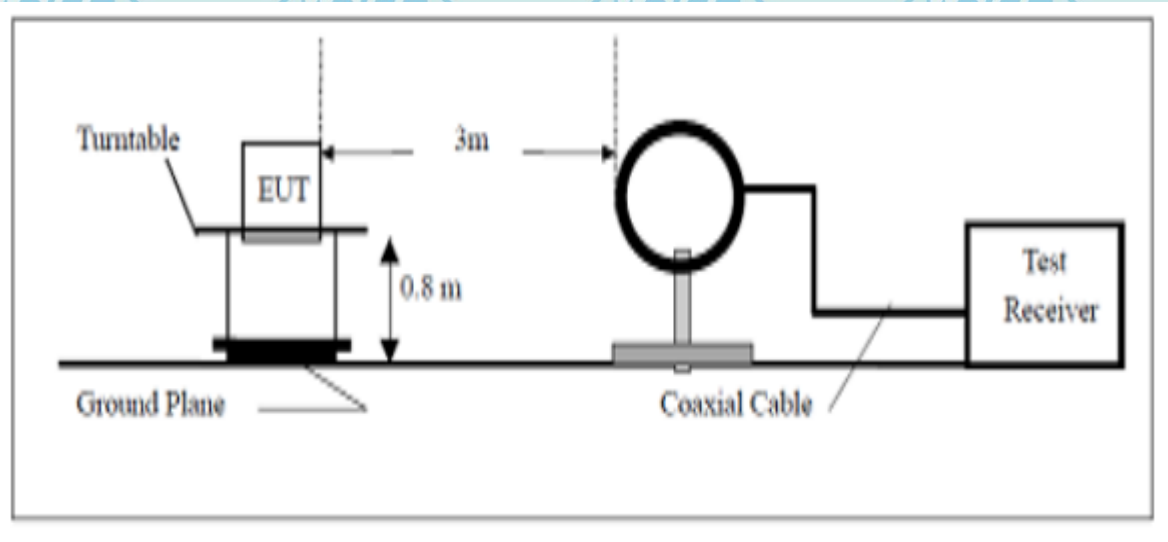




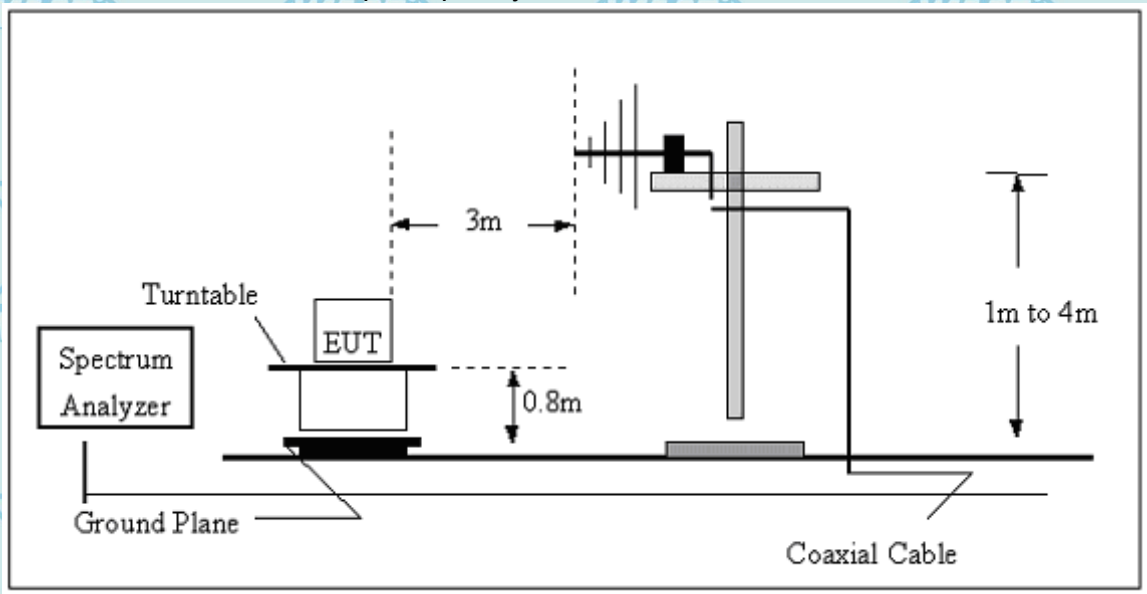
For Question,  
Please Contact with WSCT  
www.wsct-cert.com

**6.2.4 TEST SETUP**

(A) Radiated Emission Test-Up Frequency Below 30MHz

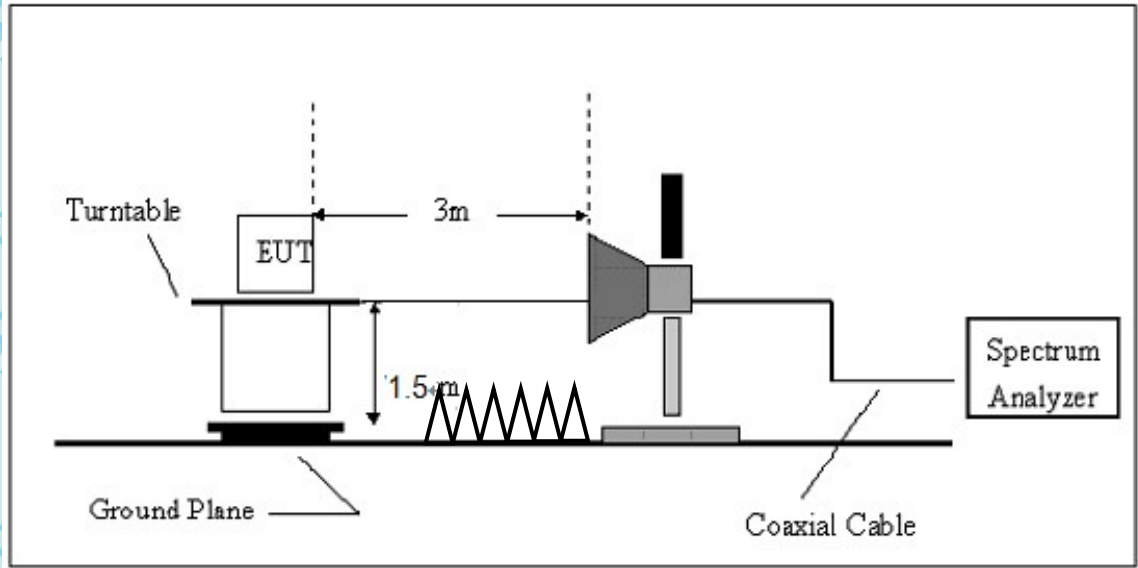


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz





(C) Radiated Emission Test-Up Frequency Above 1GHz



**6.2.5 EUT OPERATING CONDITIONS**

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.





### 6.2.5.1 RESULTS (Below 30 MHz)

Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Polarization	---
Test Mode	Mode 1		

Freq. (MHz)	Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	State P/F
--	--	--	--	P
--	--	--	--	P

**NOTE:**

No result in this part for margin above 20dB.

Distance extrapolation factor =  $40 \log(\text{specific distance}/\text{test distance})$ (dB);

Limit line = specific limits(dBuV) + distance extrapolation factor.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

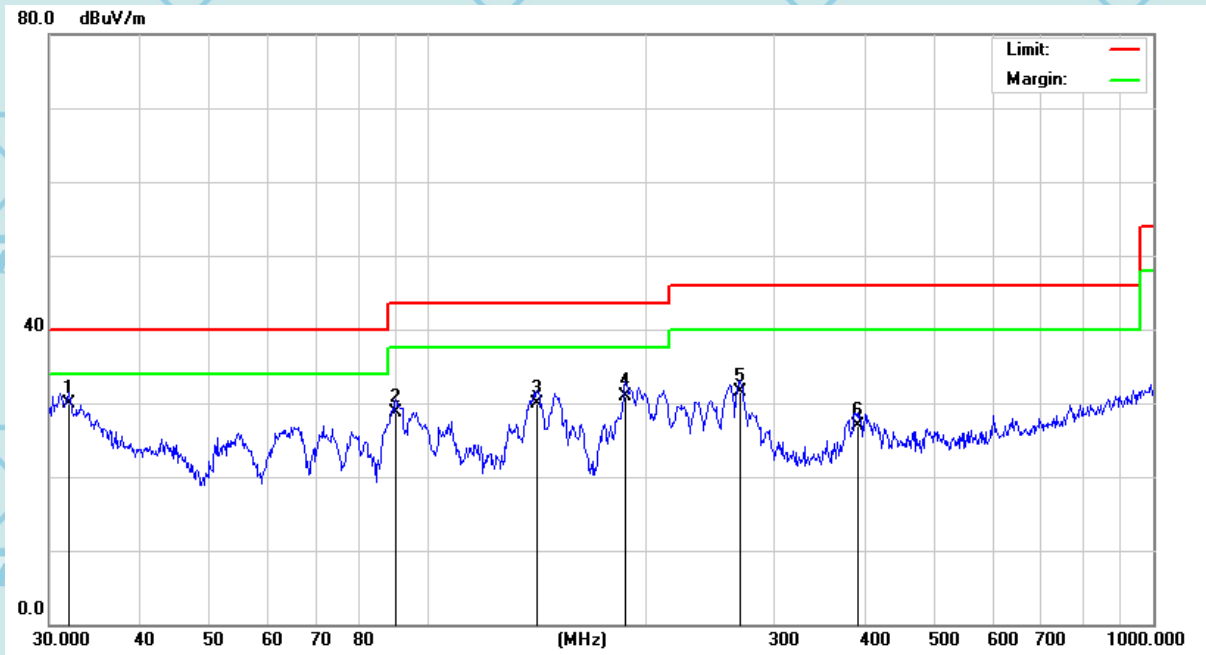




For Question,  
Please Contact with WSCT  
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**6.2.5.2 TEST RESULTS (Between 30M – 1000 MHz)**

Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Polarization :	Horizontal
Test Mode	Mode 1		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	31.9546	25.82	4.05	29.87	40.00	-10.13	QP
2		90.2205	34.63	-5.87	28.76	43.50	-14.74	QP
3		141.3298	34.26	-4.40	29.86	43.50	-13.64	QP
4		187.0958	37.98	-7.14	30.84	43.50	-12.66	QP
5		269.4284	35.33	-3.74	31.59	46.00	-14.41	QP
6		390.7226	28.49	-1.56	26.93	46.00	-19.07	QP

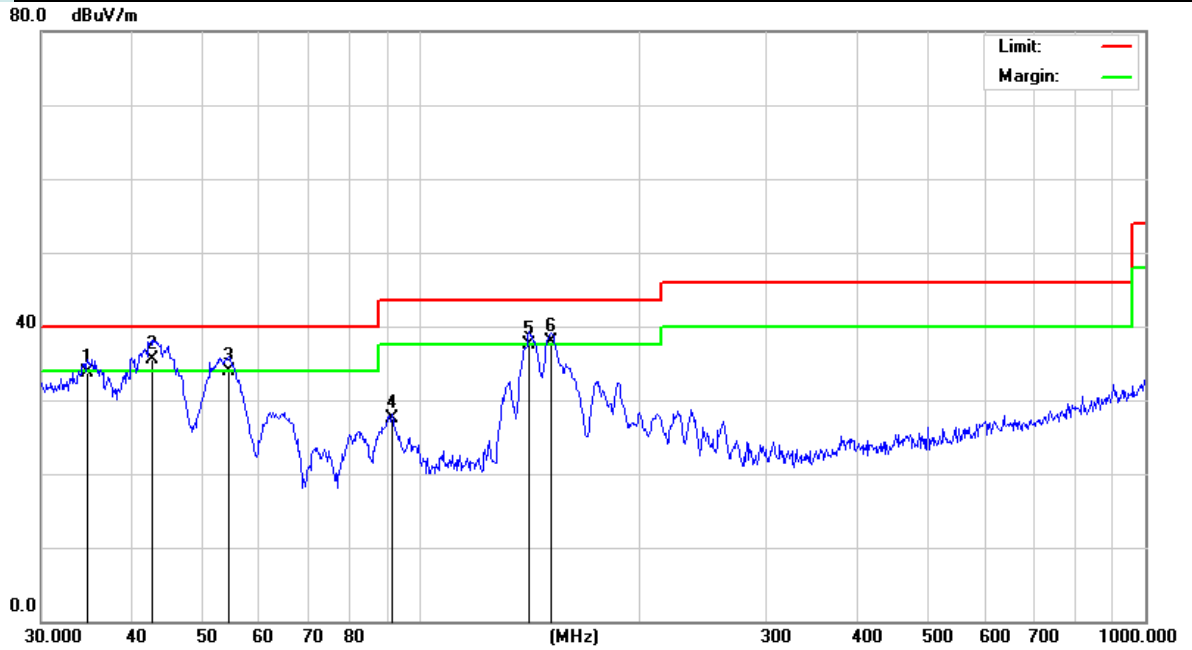
Remark: All the modes have been investigated, and only worst mode is presented in this report.





For Question,  
Please Contact with WSCT  
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Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Polarization :	Vertical
Test Mode	Mode 1		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		34.7602	30.71	2.98	33.69	40.00	-6.31	QP
2	*	42.6000	36.58	-1.09	35.49	40.00	-4.51	QP
3		54.4516	39.39	-5.55	33.84	40.00	-6.16	QP
4		91.4949	33.06	-5.60	27.46	43.50	-16.04	QP
5		141.3298	41.89	-4.40	37.49	43.50	-6.01	QP
6	!	151.5972	42.91	-5.07	37.84	43.50	-5.66	QP

Remark: All the modes have been investigated, and only worst mode is presented in this report.




**6.2.5.3 TEST RESULTS (1GHz to 40GHz)**

Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 1 TX
Frequency	5180MHz		

For Question  
Please Contact with WSCT  
www.wsct-cert.com

Freq. (MHz)	Ant. Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		H/V	PK	AV	PK	AV	PK
10360	V	58.19	39.33	68.2	54	-10.01	-14.67
15540	V	59.13	39.75	68.2	54	-9.07	-14.25
10360	H	59.07	40.88	68.2	54	-9.13	-13.12
15540	H	59.54	39.23	68.2	54	-8.66	-14.77

Remark:

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 1 TX
Frequency	5200MHz		

Freq. (MHz)	Ant. Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		H/V	PK	AV	PK	AV	PK
10400	V	58.69	39.16	68.2	54	-9.51	-14.84
15600	V	58.76	40.99	68.2	54	-9.44	-13.01
10400	H	58.40	39.92	68.2	54	-9.80	-14.08
15600	H	59.01	39.87	68.2	54	-9.19	-14.13

Remark:

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 1 TX
Frequency	5240MHz		

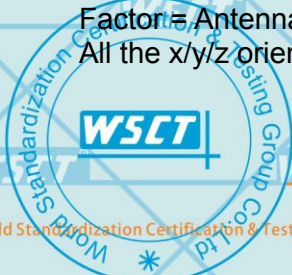
Freq. (MHz)	Ant. Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		H/V	PK	AV	PK	AV	PK
10480	V	58.25	41.33	68.2	54	-9.95	-12.67
15720	V	58.22	40.63	68.2	54	-9.98	-13.37
10480	H	59.29	40.64	68.2	54	-8.91	-13.36
15720	H	58.23	39.16	68.2	54	-9.97	-14.84

Remark:

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.







	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 1 TX
Frequency	5745MHz		

Freq. (MHz)	Ant. Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
11490	V	59.63	40.82	68.2	54	-8.57	-13.18
17235	V	59.98	40.50	68.2	54	-8.22	-13.50
11490	H	58.67	39.04	68.2	54	-9.53	-14.96
17235	H	58.55	40.72	68.2	54	-9.65	-13.28

**Remark:**

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 1 TX
Frequency	5785MHz		

Freq. (MHz)	Ant. Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
11570	V	58.01	40.43	68.2	54	-10.19	-13.57
17355	V	59.25	41.00	68.2	54	-8.95	-13.00
11570	H	58.98	40.02	68.2	54	-9.22	-13.98
17355	H	59.75	39.72	68.2	54	-8.45	-14.28

**Remark:**

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 1 TX
Frequency	5825MHz		

Freq. (MHz)	Ant. Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
11650	V	59.68	40.06	68.2	54	-8.52	-13.94
17475	V	58.64	39.54	68.2	54	-9.56	-14.46
11650	H	59.82	39.42	68.2	54	-8.38	-14.58
17475	H	58.21	39.94	68.2	54	-9.99	-14.06

**Remark:**

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.



Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 2TX
Frequency	5180MHz		

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www.wsct-cert.com

Freq. (MHz)	Ant. Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		H/V	PK	AV	PK	AV	PK
10360	V	60.35	40.42	68.2	54	-7.85	-13.58
15540	V	58.96	40.46	68.2	54	-9.24	-13.54
10360	H	59.25	40.20	68.2	54	-8.95	-13.80
15540	H	58.70	39.59	68.2	54	-9.50	-14.41

**Remark:**

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 1 TX
Frequency	5200MHz		

Freq. (MHz)	Ant. Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		H/V	PK	AV	PK	AV	PK
10400	V	59.25	39.32	68.2	54	-8.95	-14.68
15600	V	59.82	39.93	68.2	54	-8.38	-14.07
10400	H	59.04	40.53	68.2	54	-9.16	-13.47
15600	H	58.73	39.12	68.2	54	-9.47	-14.88

**Remark:**

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 2TX
Frequency	5240MHz		

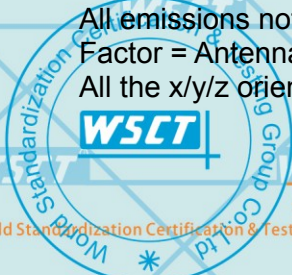
Freq. (MHz)	Ant. Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		H/V	PK	AV	PK	AV	PK
10480	V	59.30	40.83	68.2	54	-8.90	-13.17
15720	V	58.13	40.95	68.2	54	-10.07	-13.05
10480	H	59.63	39.33	68.2	54	-8.57	-14.67
15720	H	58.24	39.58	68.2	54	-9.96	-14.42

**Remark:**

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.





Temperature	20 °C	Relative Humidity	48%	For Question, Please Contact with WSCT www.wsct-cert.com
Pressure	1010 hPa	Test Mode	Mode 2TX	
Frequency	5745MHz			

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
11490	V	60.02	40.22	68.2	54	-8.18	-13.78
17235	V	59.16	40.38	68.2	54	-9.04	-13.62
11490	H	59.35	40.10	68.2	54	-8.85	-13.90
17235	H	58.79	40.27	68.2	54	-9.41	-13.73

**Remark:**

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 1 TX
Frequency	5785MHz		

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
11570	V	59.01	40.29	68.2	54	-9.19	-13.71
17355	V	59.67	39.84	68.2	54	-8.53	-14.16
11570	H	58.70	39.25	68.2	54	-9.50	-14.75
17355	H	59.52	40.24	68.2	54	-8.68	-13.76

**Remark:**

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 2TX
Frequency	5825MHz		

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
11650	V	59.81	41.87	68.2	54	-8.39	-12.13
17475	V	59.86	39.59	68.2	54	-8.34	-14.41
11650	H	59.44	40.19	68.2	54	-8.76	-13.81
17475	H	59.22	39.80	68.2	54	-8.98	-14.20

**Remark:**

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.



Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 3TX
Frequency	5190MHz		

Freq. (MHz)	Ant. Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		H/V	PK	AV	PK	AV	PK
10380	V	60.64	40.90	68.2	54	-7.56	-13.10
15570	V	59.71	40.37	68.2	54	-8.49	-13.63
10380	H	58.20	40.98	68.2	54	-10.00	-13.02
15570	H	59.19	40.92	68.2	54	-9.01	-13.08

**Remark:**

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 3TX
Frequency	5230MHz		

Freq. (MHz)	Ant. Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		H/V	PK	AV	PK	AV	PK
10460	V	58.74	40.40	68.2	54	-9.46	-13.60
15690	V	59.70	39.68	68.2	54	-8.50	-14.32
10460	H	59.66	39.58	68.2	54	-8.54	-14.42
15690	H	59.57	39.16	68.2	54	-8.63	-14.84

**Remark:**

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 3TX
Frequency	5755MHz		

Freq. (MHz)	Ant. Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		H/V	PK	AV	PK	AV	PK
11510	V	59.03	40.12	68.2	54	-9.17	-13.88
17265	V	59.04	40.50	68.2	54	-9.16	-13.50
11510	H	58.14	41.00	68.2	54	-10.06	-13.00
17265	H	59.20	39.77	68.2	54	-9.00	-14.23

**Remark:**

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.



Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 3TX
Frequency	5795MHz		

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
11590	V	58.05	41.33	68.2	54	-10.15	-12.67
17385	V	58.48	39.72	68.2	54	-9.72	-14.28
11590	H	58.10	40.18	68.2	54	-10.10	-13.82
17385	H	59.37	39.11	68.2	54	-8.83	-14.89

**Remark:**

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 4TX
Frequency	5180MHz		

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
10360	V	60.91	40.40	68.2	54	-7.29	-13.60
15540	V	58.39	39.75	68.2	54	-9.81	-14.25
10360	H	59.61	40.27	68.2	54	-8.59	-13.73
15540	H	58.97	39.67	68.2	54	-9.23	-14.33

**Remark:**

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 1 TX
Frequency	5200MHz		

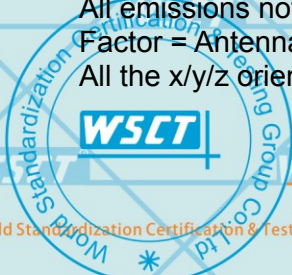
Freq. (MHz)	Ant.Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
10400	V	60.80	40.35	68.2	54	-7.40	-13.65
15600	V	58.03	39.82	68.2	54	-10.17	-14.18
10400	H	58.85	40.39	68.2	54	-9.35	-13.61
15600	H	59.59	39.88	68.2	54	-8.61	-14.12

**Remark:**

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.





Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 4TX
Frequency	5240MHz		

Freq. (MHz)	Ant. Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
10480	V	58.15	41.15	68.2	54	-10.05	-12.85
15720	V	59.57	39.34	68.2	54	-8.63	-14.66
10480	H	59.87	40.44	68.2	54	-8.33	-13.56
15720	H	59.17	39.79	68.2	54	-9.03	-14.21

**Remark:**

All emissions not reported were more than 20dB below the specified limit or in the noise floor.  
 Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 4TX
Frequency	5745MHz		

Freq. (MHz)	Ant. Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
11490	V	59.86	40.01	68.2	54	-8.34	-13.99
17235	V	59.80	39.15	68.2	54	-8.40	-14.85
11490	H	59.80	39.63	68.2	54	-8.40	-14.37
17235	H	58.90	40.00	68.2	54	-9.30	-14.00

**Remark:**

All emissions not reported were more than 20dB below the specified limit or in the noise floor.  
 Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 1 TX
Frequency	5785MHz		

Freq. (MHz)	Ant. Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
11570	V	59.54	40.85	68.2	54	-8.66	-13.15
17355	V	58.61	39.36	68.2	54	-9.59	-14.64
11570	H	59.85	39.25	68.2	54	-8.35	-14.75
17355	H	59.52	40.23	68.2	54	-8.68	-13.77

**Remark:**

All emissions not reported were more than 20dB below the specified limit or in the noise floor.  
 Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.



Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 4TX
Frequency	5825MHz		

Freq. (MHz)	Ant. Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
11650	V	60.22	39.96	68.2	54	-7.98	-14.04
17475	V	59.77	39.61	68.2	54	-8.43	-14.39
11650	H	59.87	39.69	68.2	54	-8.33	-14.31
17475	H	59.54	40.49	68.2	54	-8.66	-13.51

**Remark:**

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 5TX
Frequency	5190MHz		

Freq. (MHz)	Ant. Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
10380	V	59.06	39.91	68.2	54	-9.14	-14.09
15570	V	59.71	39.85	68.2	54	-8.49	-14.15
10380	H	60.00	40.79	68.2	54	-8.20	-13.21
15570	H	59.47	39.37	68.2	54	-8.73	-14.63

**Remark:**

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 5TX
Frequency	5230MHz		

Freq. (MHz)	Ant. Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
10460	V	58.41	40.39	68.2	54	-9.79	-13.61
15690	V	58.55	40.83	68.2	54	-9.65	-13.17
10460	H	58.68	39.14	68.2	54	-9.52	-14.86
15690	H	59.50	40.03	68.2	54	-8.70	-13.97

**Remark:**

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.



Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 5TX
Frequency	5755MHz		

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
11510	V	59.85	40.96	68.2	54	-8.35	-13.04
17265	V	59.96	40.91	68.2	54	-8.24	-13.09
11510	H	58.17	39.58	68.2	54	-10.03	-14.42
17265	H	58.57	39.01	68.2	54	-9.63	-14.99

**Remark:**

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 5TX
Frequency	5795MHz		

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
11590	V	60.44	40.84	68.2	54	-7.76	-13.16
17385	V	58.85	40.39	68.2	54	-9.35	-13.61
11590	H	59.05	40.81	68.2	54	-9.15	-13.19
17385	H	59.74	40.43	68.2	54	-8.46	-13.57

**Remark:**

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 6TX
Frequency	5210MHz		

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
10420	V	59.81	40.40	68.2	54	-8.39	-13.60
15630	V	58.12	40.15	68.2	54	-10.08	-13.85
10420	H	59.73	39.25	68.2	54	-8.47	-14.75
15630	H	58.48	40.19	68.2	54	-9.72	-13.81

**Remark:**

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.





Temperature	20 °C	Relative Humidity	48%	For Question, Please Contact with WSCT www.wsct-cert.com
Pressure	1010 hPa	Test Mode	Mode 6TX	
Frequency	5775MHz			

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
11550	V	59.03	39.45	68.2	54	-9.17	-14.55
17325	V	59.67	39.55	68.2	54	-8.53	-14.45
11550	H	59.37	40.01	68.2	54	-8.83	-13.99
17325	H	58.06	39.89	68.2	54	-10.14	-14.11

**Remark:**

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.





## 7. ANTENNA APPLICATION

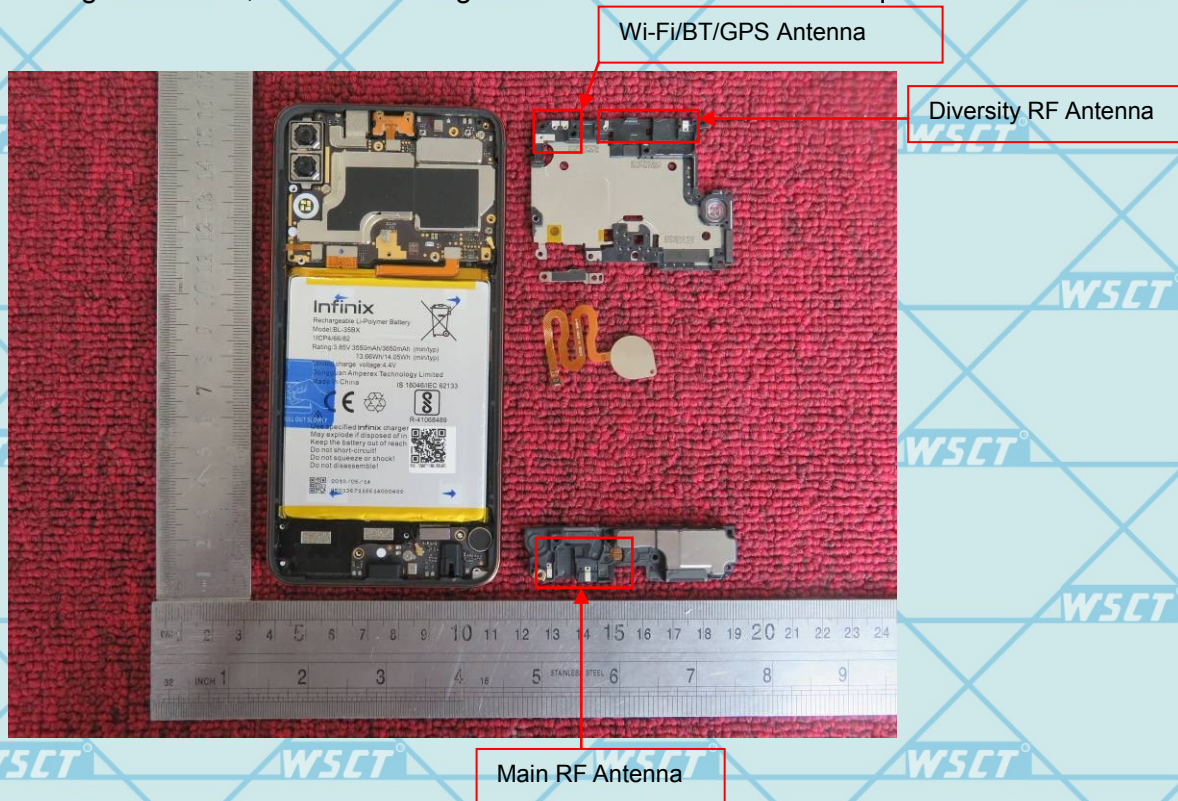
### 7.1 ANTENNA REQUIREMENT

The EUT'S antenna is met the requirement of FCC part 15C section 15.203 and FCC part 15C section 15.407.

FCC part 15C section 15.203 and FCC part 15C section 15.407 requirements: Systems operating in the 5150~5850MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum peak output power of the intentional radiator is reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

### 7.2 RESULT

The EUT's antenna Integral Antenna, The antenna's gain is -1.5dBi and meets the requirement.





# 8 FCC PART 15.407 REQUIREMENTS FOR 802.11A/N SYSTEMS

## 8.1 TEST EQUIPMENT

Please refer to Section 5 this report.

## 8.2 TEST PROCEDURE

<b>26dB Bandwidth and 99% Occupied Bandwidth:</b>	
Test Method:	a)The transmitter was radiated to the spectrum analyzer in peak hold mode. b)Measure the maximum width of the emission that is 26 dB down from the peak of the emission Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement asneeded until the RBW/EBW ratio is approximately 1%.
Test Equipment Setting – 26dB Bandwidth:	Test Equipment Setting – 99% Bandwidth:
a)Attenuation: Auto b)Span Frequency: > 26dB Bandwidth c)RBW: Approximately 1% of the emission bandwidth d)VBW: VBW > RBW e)Detector: Peak f)Trace: Max Hold g)Sweep Time: Auto	a)Span: 1.5 times to 5.0 times the OBW b)RBW: 1 % to 5 % of the OBW c)VBW: ≥3 x RBW d)Detector: Peak e)Trace: Max Hold
<b>6 dB Bandwidth:</b>	
Test Method:	a)The transmitter was radiated to the spectrum analyzer in peak hold mode. b)Test was performed in accordance with KDB789033 D02 v01 for Compliance Testing of UnlicensedNational Information Infrastructure (U-NII) Devices - section (C) Emission Bandwidth. c)Multiple antenna system was performed in accordance with KDB662911 D01 v02r01 Emissions Testing of Transmitters with Multiple Outputs in the Same Band. d)Measured the spectrum width with power higher than 6dB below carrier.
Test Equipment Setting:	
a)Attenuation: Auto b)Span Frequency: > 6dB Bandwidth c)RBW: 100kHz d)VBW: ≥3 x RBW	e)Detector: Peak f)Trace: Max Hold g)Sweep Time: Auto
<b>Maximum Conducted Output Power Measurement:</b>	
Test Method:	a)The transmitter output (antenna port) was connected to the power meter. b)Test was performed in accordance with KDB789033 D02 v01 for Compliance Testing of UnlicensedNational Information Infrastructure (U-NII) Devices - section (E) Maximum conducted output power =>3. Measurement using a Power Meter (PM) =>b) Method PM-G (Measurement using a gated RFaverage power meter). c)Multiple antenna systems was performed in accordance with KDB662911 D01 v02r01 Emissions Testing of Transmitters with Multiple Outputs in the Same Band. d)When measuring maximum conducted output power with multiple antenna systems,add every resultof the values by mathematic formula.
Test Equipment Setting: Detector - Average	
<b>PowerSpectral Density:</b>	
Test Method:	a)The transmitter output (antenna port) was connected RF switch to the spectrum analyzer. b)Test was performed in accordance with KDB789033 D02 v01 for Compliance Testing of UnlicensedNational Information Infrastructure (U-NII) Devices - section (F) Maximum Power Spectral Density (PSD). c)Multiple antenna systems was performed in accordance KDB662911 D01 v02r01 in-Band Power Spectral Density (PSD) Measurements (a) Measure and sum the spectra across the outputs. d)When measuring first spectral bin of output 1 is summed with that in the first spectral bin of output 2and that from the first spectral bin of output 3 and so on up to the Nth output to obtain the value for the first frequency bin of the summed spectrum. The summed spectrum value for each of the other frequency bins is computed in the same way. e)For 5.725~5.85 GHz, the measured result of PSD level must add 10log(500kHz/RBW) and the finalresult should ≤30 dBm.



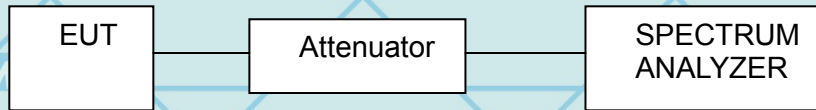


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<p>Test Equipment Setting:</p> <p>a)Attenuation: Auto</p> <p>b)Span Frequency: Encompass the entire emissions bandwidth (EBW) of the signal</p> <p>c)RBW: 1000 kHz</p> <p>d)VBW: 3000 kHz</p> <p>Note: If measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10log(500kHz/RBW) to the measured result, whereas RBW (&lt; 500 kHz) is the reduced resolution bandwidth of this spectrum analyzer set during measurement.</p>	<p>TESTING</p> <p>NVLAQ LAB CODE 600142-0</p> <p>e)Detector: RMS</p> <p>f)Trace: AVERAGE</p> <p>g)Sweep Time: Auto</p> <p>h)Trace Average: 100 times</p>
--	--

<p><b>Frequency Stability Measurement:</b></p>	
<p>Test Method:</p> <p>a)The transmitter output (antenna port) was connected to the spectrum analyzer.</p> <p>b)EUT have transmitted absence of modulation signal and fixed channelize.</p> <p>c)Set the spectrum analyzer span to view the entire absence of modulation emissions bandwidth.</p> <p>d)Set RBW = 10 kHz, VBW = 10 kHz with peak detector and maxhold settings.</p> <p>e)fc is declaring of channel frequency. Then the frequency error formula is <math>(fc-f)/fc \times 106</math> ppm and the limit is less than <math>\pm 20</math>ppm (IEEE 802.11nspecification).</p> <p>f)The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value</p> <p>g)Extreme temperature is 0°C~40°C</p>	
<p>Test Equipment Setting:</p> <p>a)Attenuation: Auto</p> <p>b)Span Frequency: Entire absence of modulation emissions bandwidth</p> <p>c)RBW: 10 kHz</p> <p>d)VBW: 10 kHz</p>	<p>e)Sweep Time: Auto</p>

**8. 2.1 Test Setup**



**8. 2.2 Configuration of the EUT**

Same as section 3.4of this report

**8. 2.3 EUT Operating Condition**

Same as section 3.2of this report.





### 8.3 LIMIT

<b>26dB Bandwidth and 99% Occupied Bandwidth:</b>	
Limit:	No restriction limits.
<b>6 dB Bandwidth:</b>	
Limit:	For digital modulation systems, the minimum 6dB bandwidth shall be at least 500 kHz.
Test Equipment Setting:	
a)Attenuation: Auto	e)Detector: Peak
b)Span Frequency: > 6dB Bandwidth	f)Trace: Max Hold
c)RBW: 100kHz	g)Sweep Time: Auto
d)VBW: ≥ 3 x RBW	
<b>Maximum Conducted Output Power Measurement:</b>	
<input checked="" type="checkbox"/> 5.15~5.25 GHz	
<input type="checkbox"/> Limit of Outdoor access point: The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm) provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).	<input type="checkbox"/> Limit of Indoor access point: The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm) provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
<input type="checkbox"/> Limit of Fixed point-to-point access points: The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm). Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi.	<input checked="" type="checkbox"/> Limit of Mobile and portable client devices: The maximum conducted output power over the frequency band of operation shall not exceed 250 mW (24dBm) provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
<input type="checkbox"/> 5.25-5.35 GHz & <input type="checkbox"/> 5.470-5.725 GHz	
The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW (24dBm) or 11 dBm 10 log B, where B is the 26 dB emission bandwidth in megahertz. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.	
<input checked="" type="checkbox"/> 5.725~5.85 GHz	
The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm). If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power.	
<b>Power Spectral Density</b>	
<input checked="" type="checkbox"/> 5.15~5.25 GHz	
<input type="checkbox"/> Limit of Outdoor access point: 17 dBm/MHz	<input type="checkbox"/> Limit of Indoor access point: 17 dBm/MHz
<input type="checkbox"/> Limit of Fixed point-to-point access points: 17 dBm/MHz	<input checked="" type="checkbox"/> Limit of Mobile and portable client devices: 11 dBm/MHz
<input type="checkbox"/> 5.25-5.35 GHz	11 dBm/MHz
<input type="checkbox"/> 5.470-5.725 GHz	11 dBm/MHz
<input checked="" type="checkbox"/> 5.725~5.85 GHz	30 dBm/500kHz
<b>Frequency Stability Measurement:</b>	
Limit:	In-band emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual. The transmitter center frequency tolerance shall be ± 20 ppm maximum for the 5 GHz band (IEEE 802.11n specification).





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### 8. 4 TEST RESULT

#### 26dB Bandwidth&6dB Spectrum Bandwidth and 99% Occupied Bandwidth

Product	: Mobile phone	Test Mode	: See section 2.2
Test Item	: 26dB Bandwidth and 99% Occupied Bandwidth	Temperature	: 25°C
Test Voltage	: DC 3.85V	Humidity	: 56%RH
Test Result	: PASS		

#### 26dB Bandwidth

##### IEEE 802.11a

###### Band1

Channel	Frequency (MHz)	26dBBandwidth (MHz)	FCC Limit (kHz)	Result
36	5180	20.256	--	PASS
40	5200	20.577		PASS
48	5240	19.689		PASS

###### Band4

Channel	Frequency (MHz)	26dBBandwidth (MHz)	FCC Limit (kHz)	Result
149	5745	21.090	--	PASS
157	5785	26.090		PASS
165	5825	25.897		PASS

##### IEEE 802.11n 5G 20MHz

###### Band1

Channel	Frequency (MHz)	26dBBandwidth (MHz)	FCC Limit (kHz)	Result
36	5180	20.128	--	PASS
40	5200	20.064		PASS
48	5240	20.128		PASS

###### Band4

Channel	Frequency (MHz)	26dBBandwidth (MHz)	FCC Limit (kHz)	Result
149	5745	33.397	--	PASS
157	5785	33.654		PASS
165	5825	25.833		PASS

##### IEEE 802.11n 5G 40MHz

###### Band1

Channel	Frequency (MHz)	26dBBandwidth (MHz)	FCC Limit (kHz)	Result
38	5190	40.513	--	PASS
46	5230	40.513		PASS

###### Band4

Channel	Frequency (MHz)	26dBBandwidth (MHz)	FCC Limit (kHz)	Result
151	5755	71.795	--	PASS
159	5795	62.949		PASS

##### IEEE 802.11ac 5G 20MHz

###### Band1

Channel	Frequency (MHz)	26dBBandwidth (MHz)	FCC Limit (kHz)	Result
36	5180	19.808	--	PASS
40	5200	20.513		PASS
48	5240	20.000		PASS





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Band4

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	FCC Limit (kHz)	Result
149	5745	28.077	--	PASS
157	5785	40.577		PASS
165	5825	20.385		PASS

IEEE 802.11ac 5G 40MHz

Band1

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	FCC Limit (kHz)	Result
38	5190	39.103	--	PASS
46	5230	39.519		PASS

Band4

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	FCC Limit (kHz)	Result
151	5755	66.827	--	PASS
159	5795	39.968		PASS

IEEE 802.11ac 5G 80MHz

Band1

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	FCC Limit (kHz)	Result
42	5210	81.53	--	PASS

Band4

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	FCC Limit (kHz)	Result
155	5775	82.05	--	PASS

99% Occupied

IEEE 802.11a

Band1

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	FCC Limit (kHz)	Result
36	5180	16.859	--	PASS
40	5200	17.821		PASS
48	5240	16.859		PASS

Band4

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	FCC Limit (kHz)	Result
149	5745	17.179	--	PASS
157	5785	17.885		PASS
165	5825	17.115		PASS

IEEE 802.11n 5G 20MHz

Band1

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	FCC Limit (kHz)	Result
36	5180	17.692	--	PASS
40	5200	17.692		PASS
48	5240	17.821		PASS





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**Band4**

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	FCC Limit (kHz)	Result
149	5745	18.205	--	PASS
157	5785	17.885		PASS
165	5825	17.821		PASS

**IEEE 802.11n 5G 40MHz**
**Band1**

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	FCC Limit (kHz)	Result
38	5190	36.026	--	PASS
46	5230	36.026		PASS

**Band4**

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	FCC Limit (kHz)	Result
151	5755	36.795	--	PASS
159	5795	36.282		PASS

**IEEE 802.11ac 5G 20MHz**
**Band1**

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	FCC Limit (kHz)	Result
36	5180	17.692	--	PASS
40	5200	17.788		PASS
48	5240	17.692		PASS

**Band4**

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	FCC Limit (kHz)	Result
149	5745	17.885	--	PASS
157	5785	22.981		PASS
165	5825	17.692		PASS

**IEEE 802.11ac 5G 40MHz**
**Band1**

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	FCC Limit (kHz)	Result
38	5190	35.897	--	PASS
46	5230	36.058		PASS

**Band4**

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	FCC Limit (kHz)	Result
151	5755	36.378	--	PASS
159	5795	36.218		PASS

**IEEE 802.11ac 5G 80MHz**
**Band1**

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	FCC Limit (kHz)	Result
42	5210	76.15	--	PASS

**Band4**

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	FCC Limit (kHz)	Result
155	5775	76.15	--	PASS



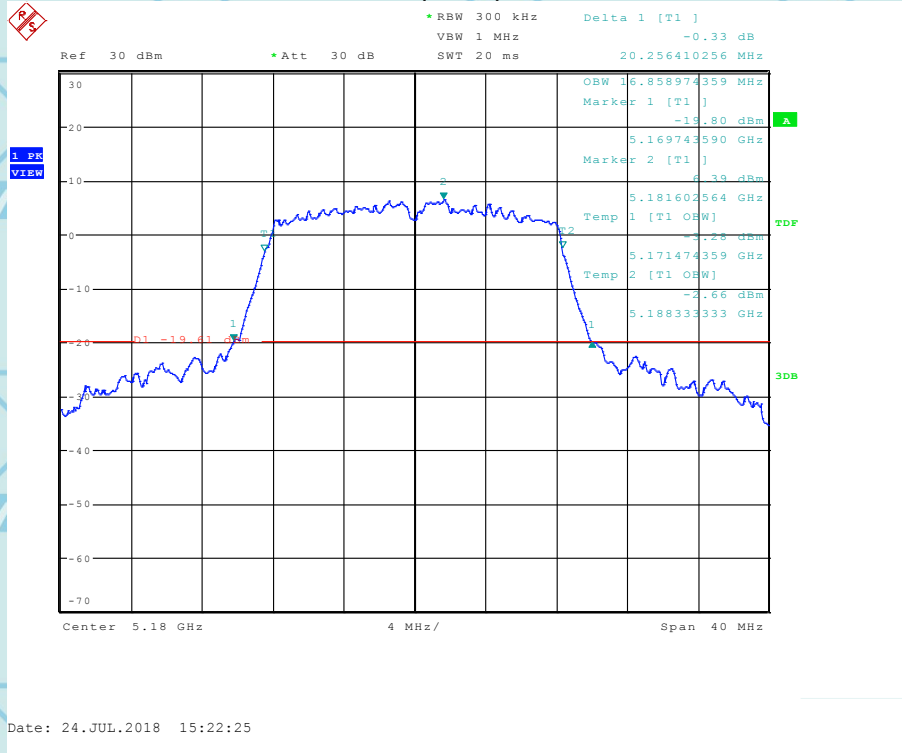




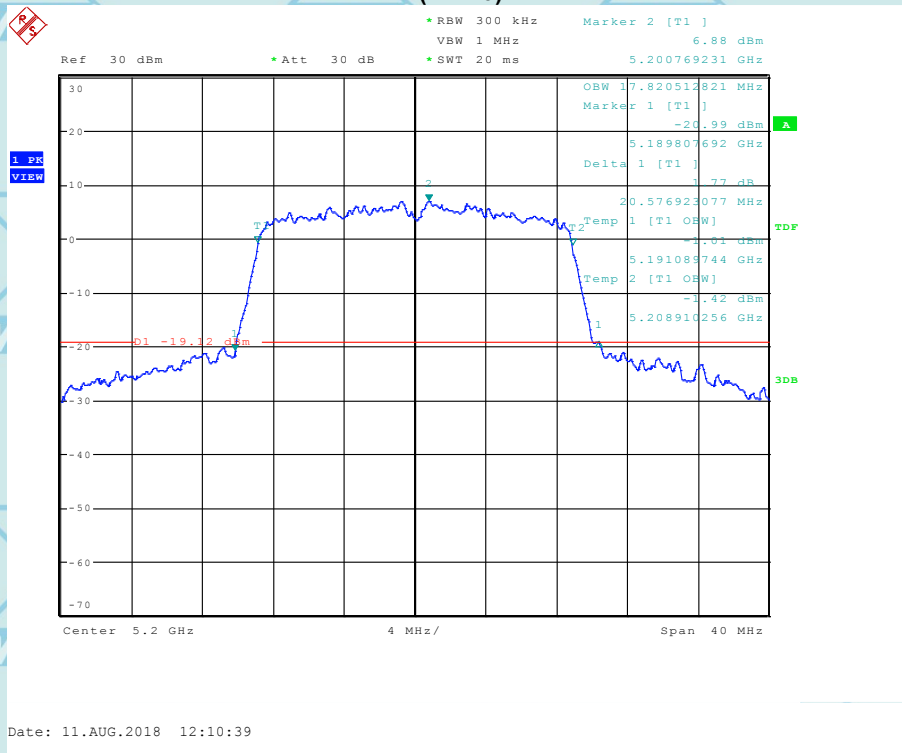
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IEEE 802.11a Band1

(CH 36)



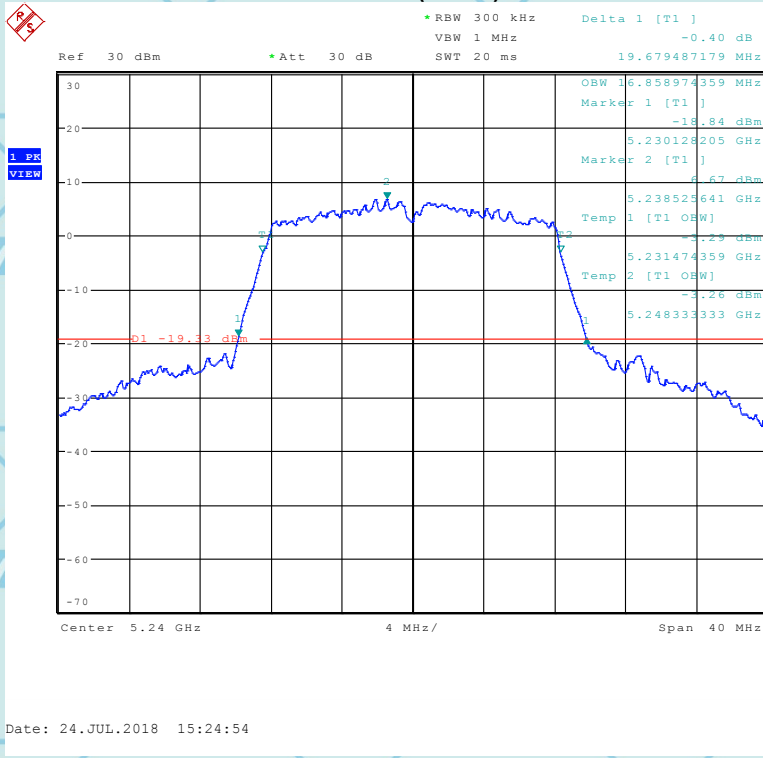
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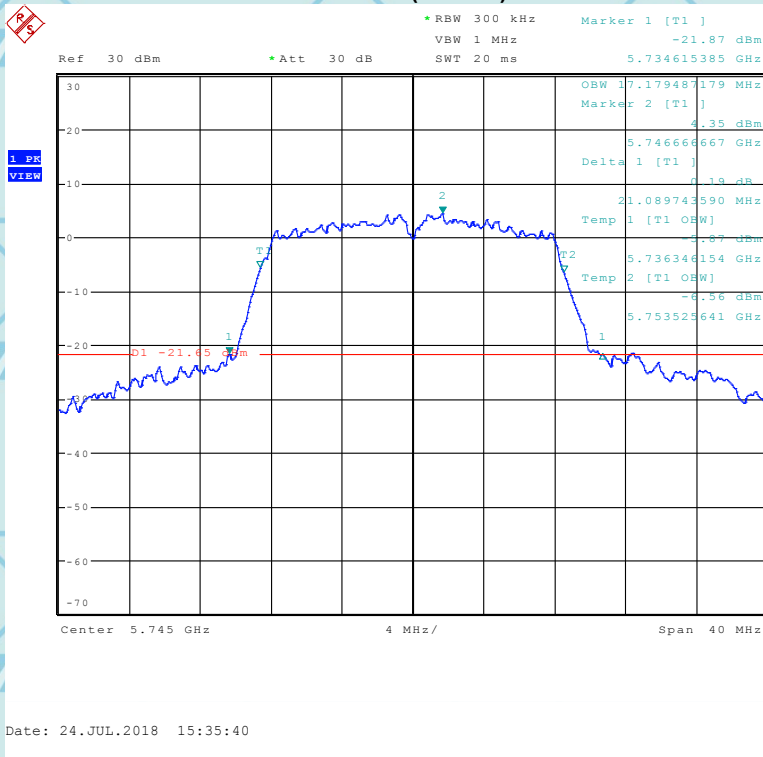
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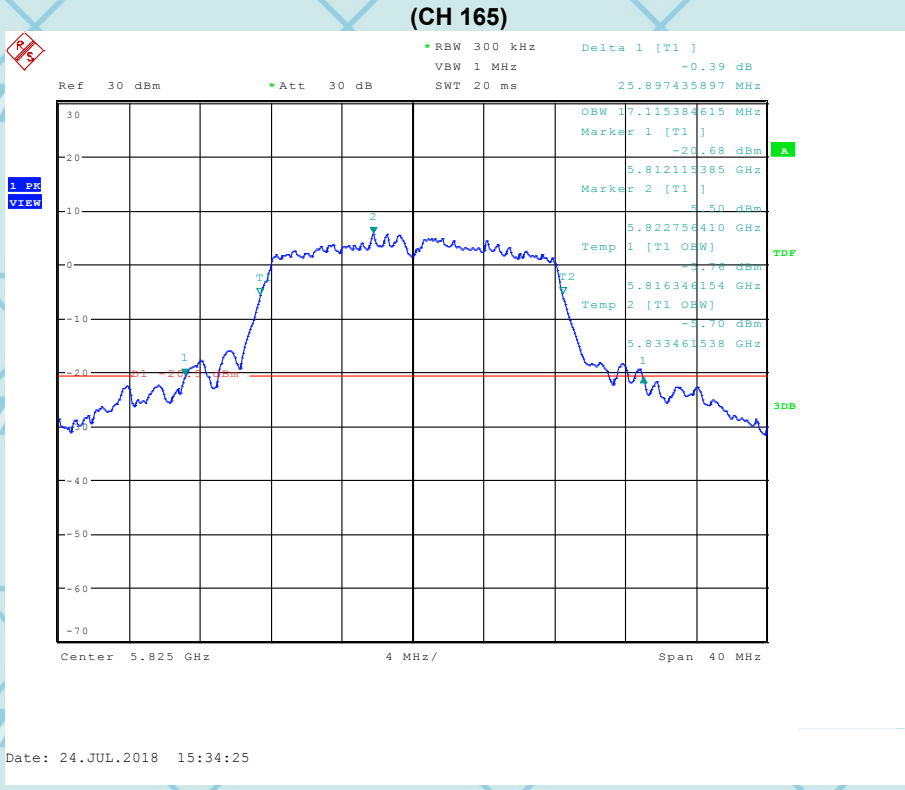
IEEE 802.11a Band4

(CH 149)





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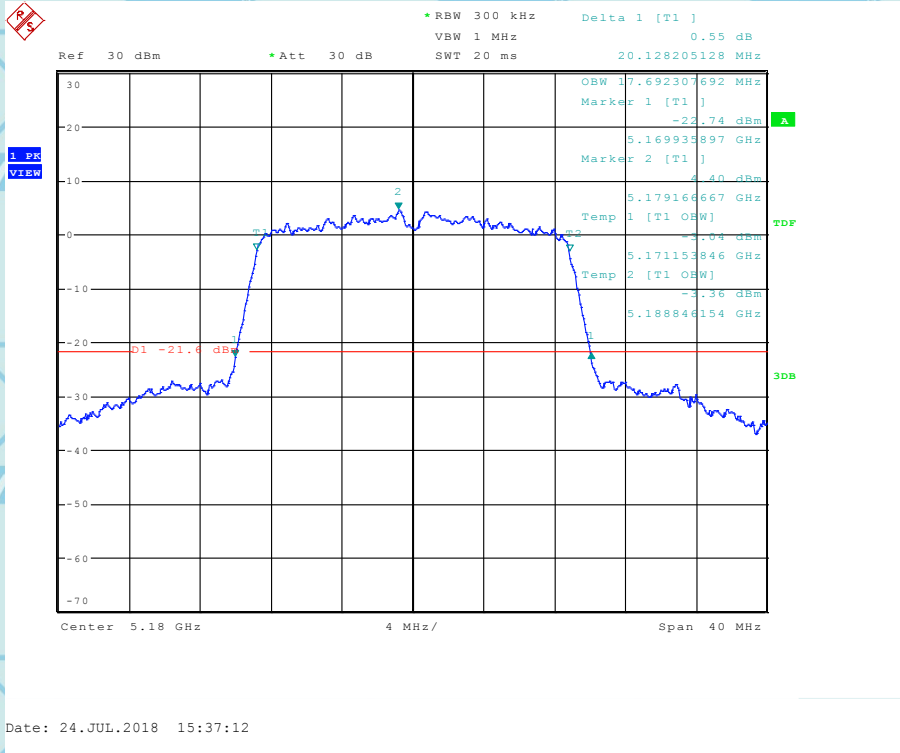




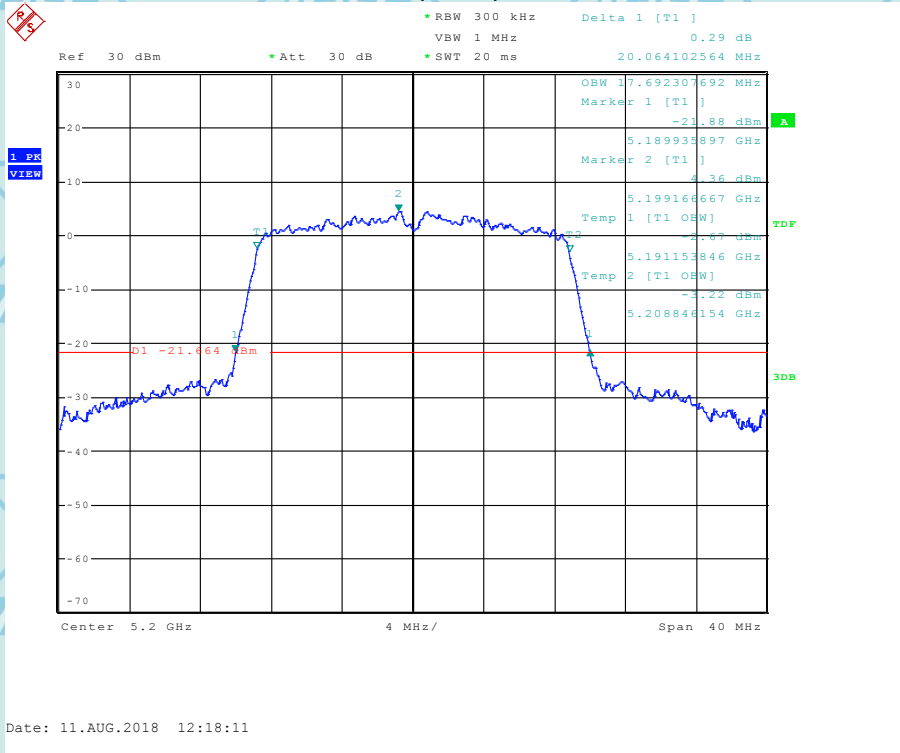
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**IEEE 802.11n 5G 20MHz Band1**

**(CH 36)**



**(CH 40)**



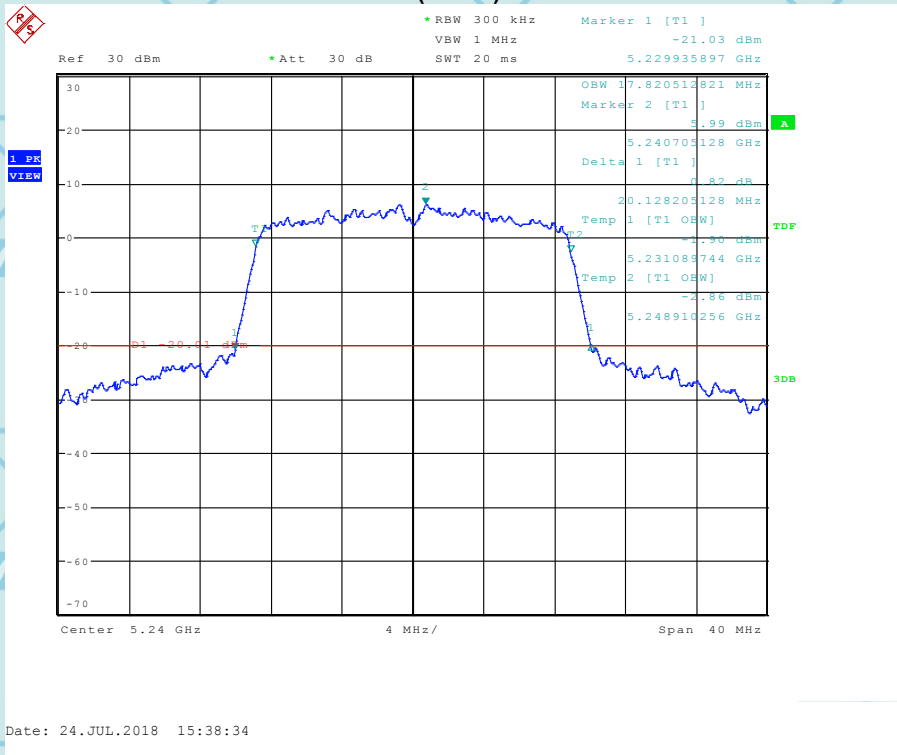
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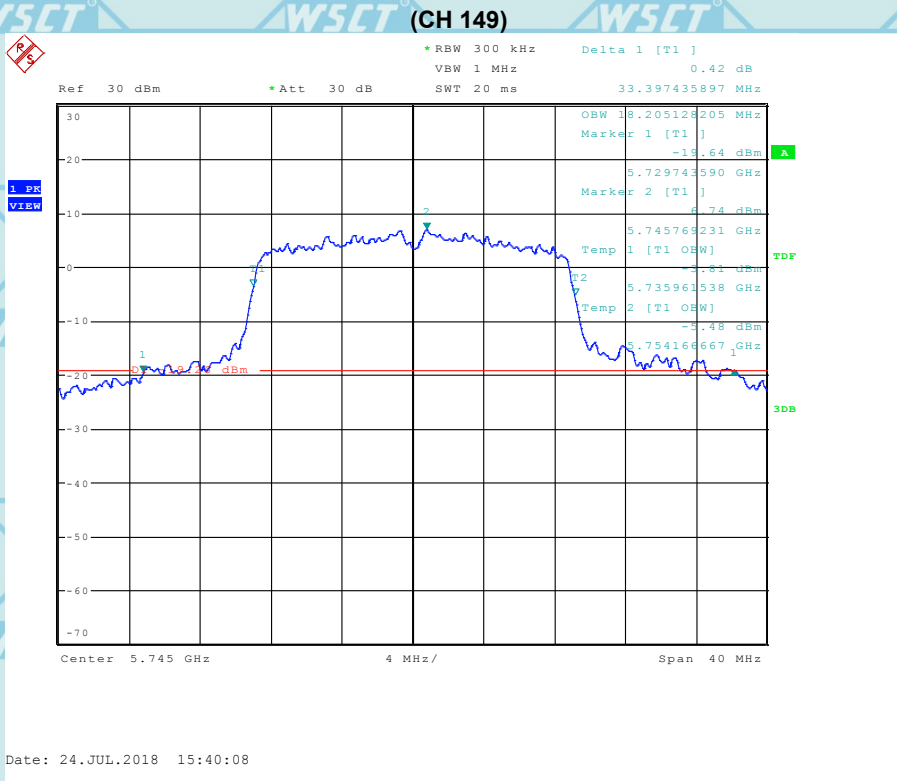
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**IEEE 802.11n 5G 20MHz Band4**



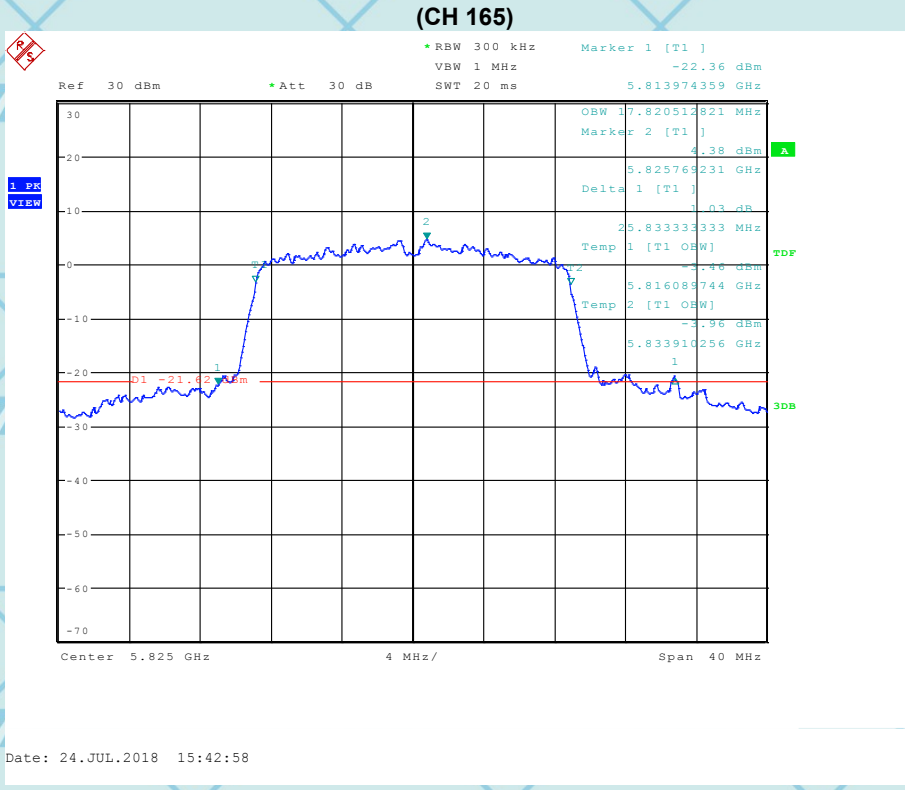
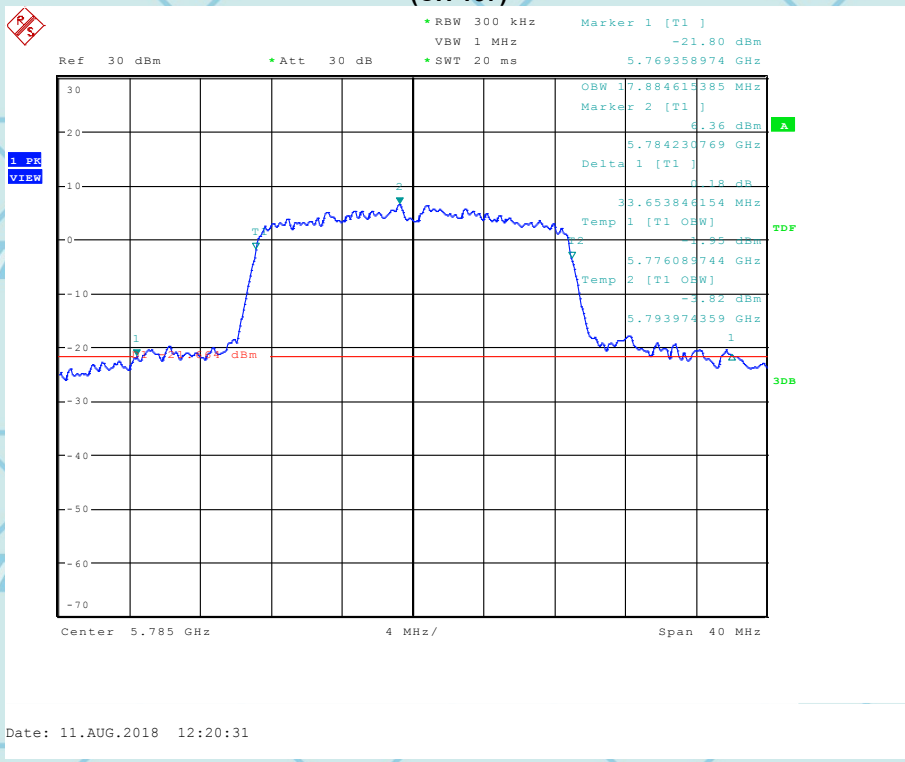
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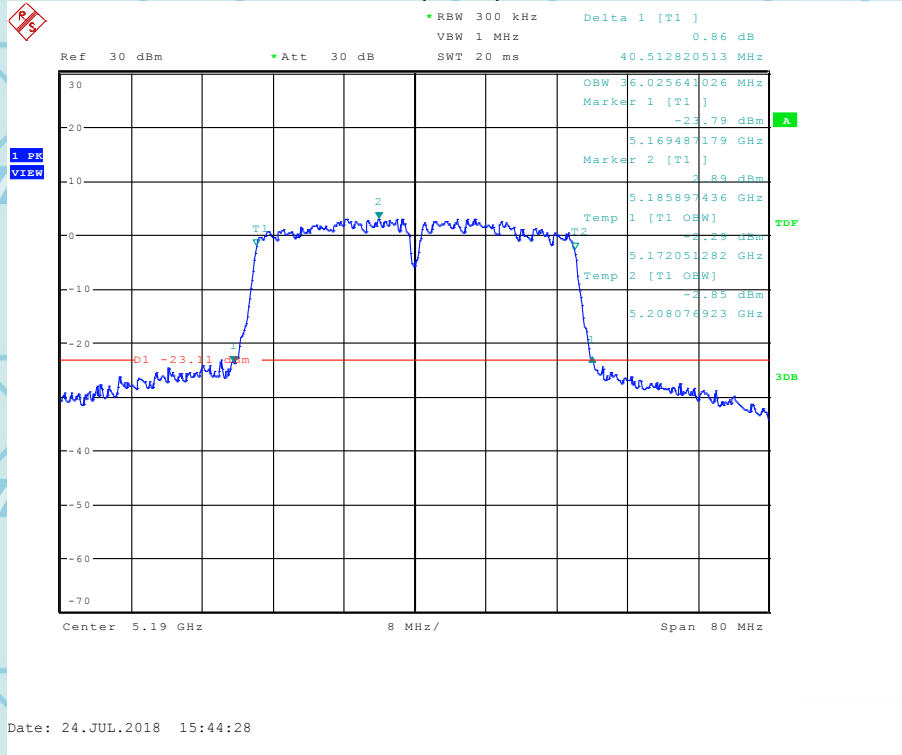




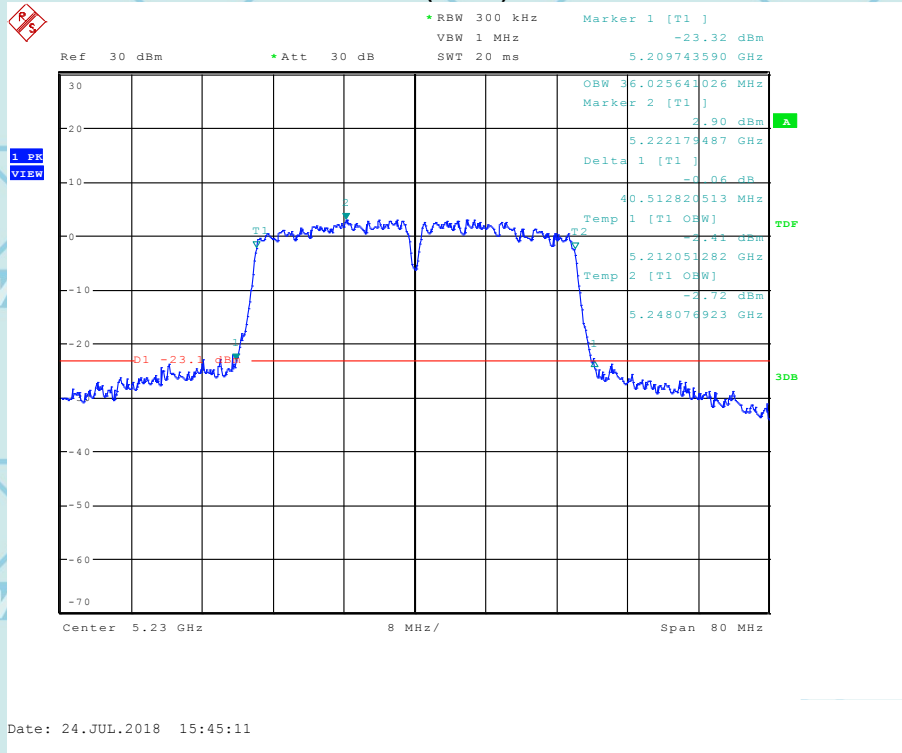
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IEEE 802.11n 5G 40MHz Band1

(CH 38)



(CH 46)

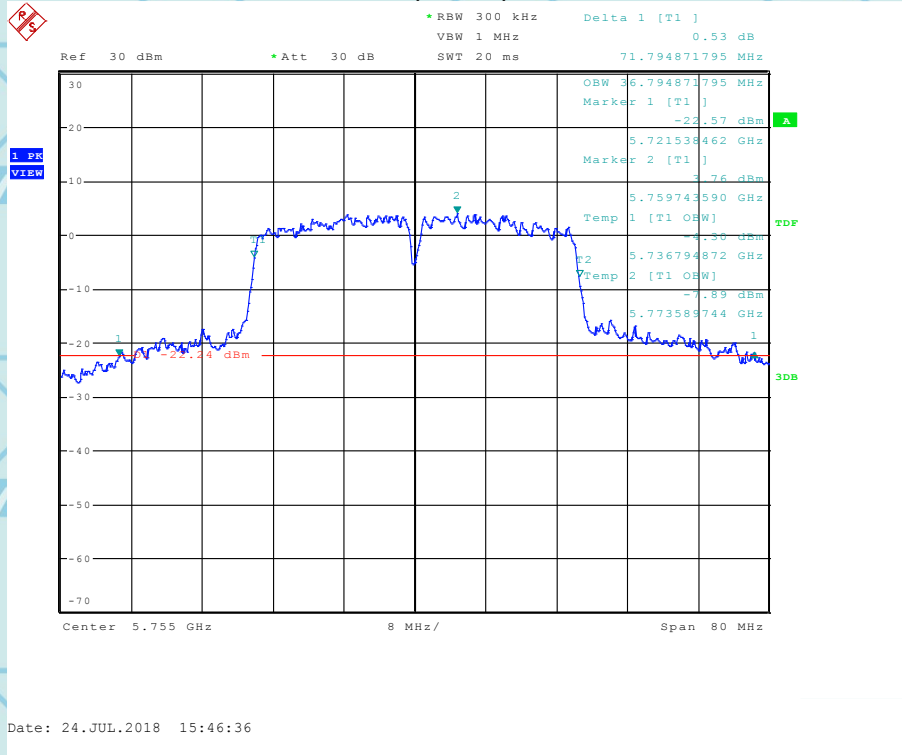




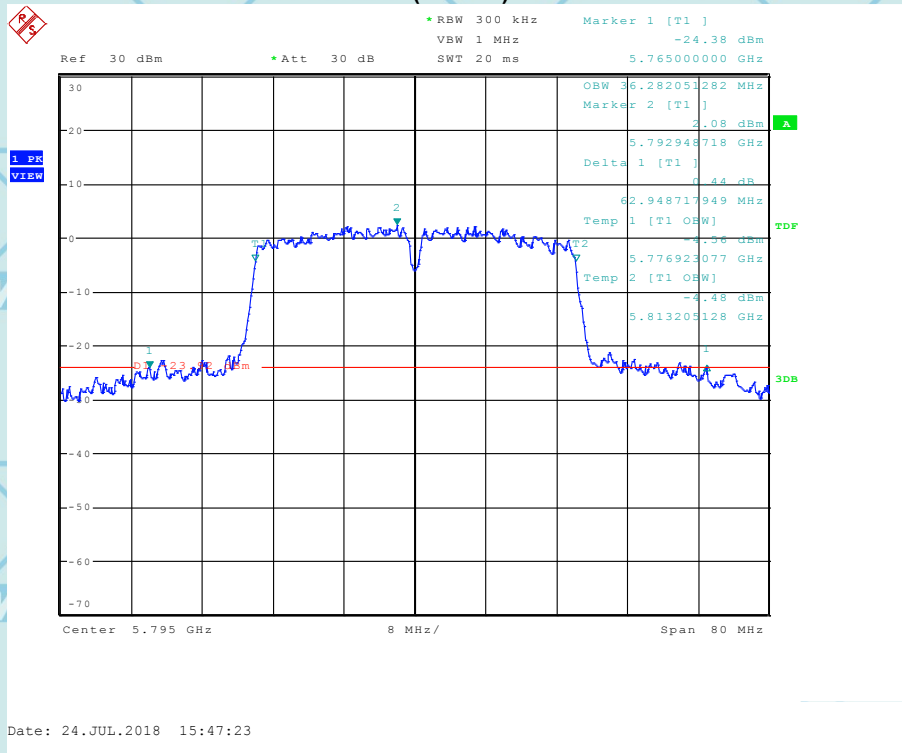
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IEEE 802.11n 5G 40MHz Band4

(CH 151)



(CH 159)



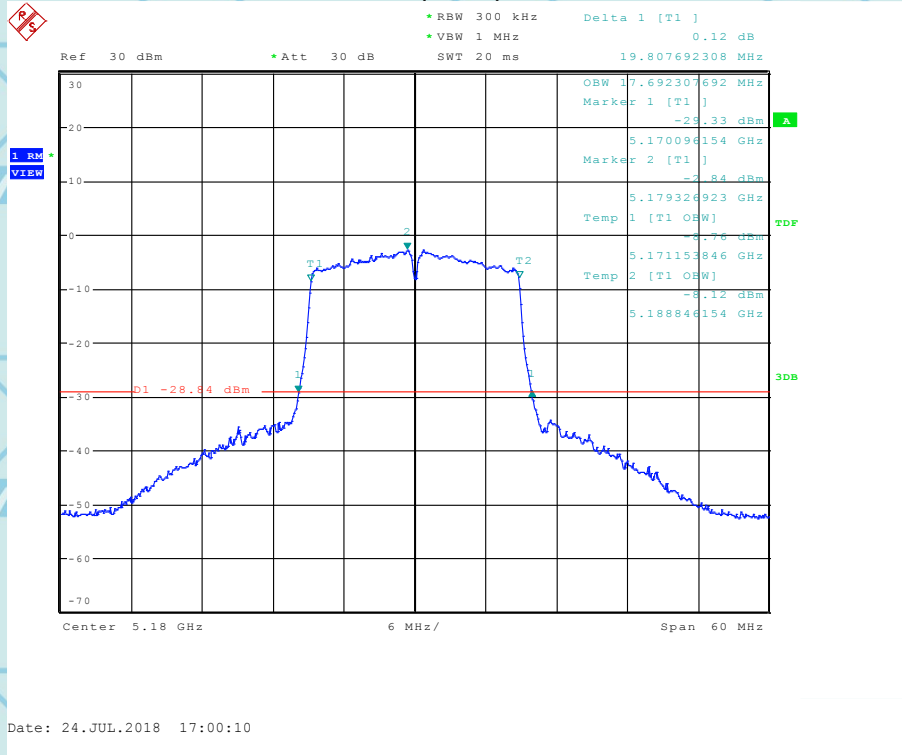




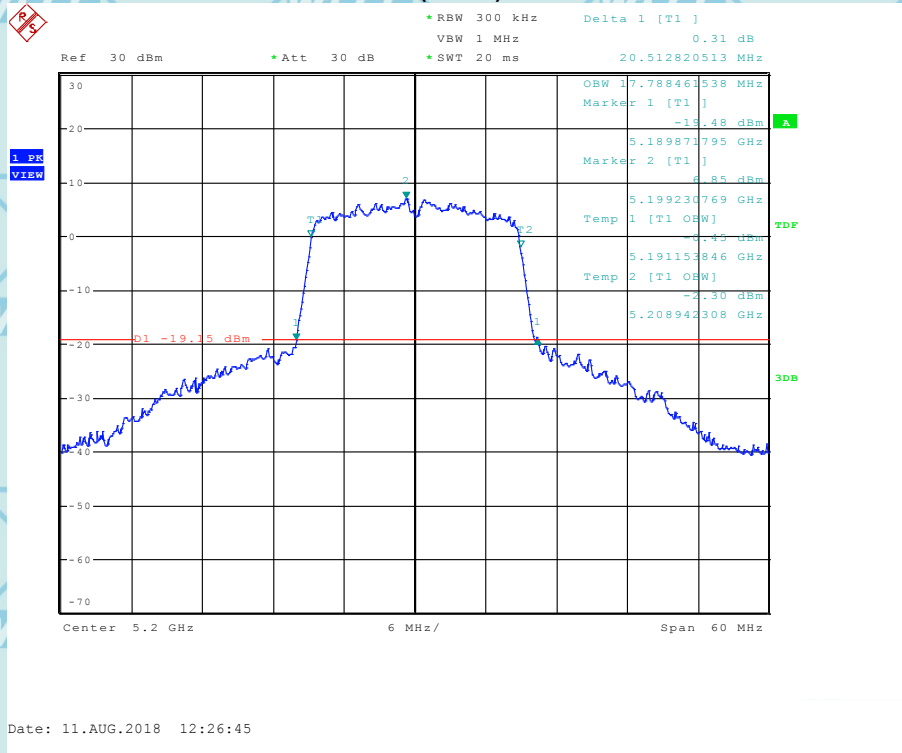
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IEEE 802.11ac 5G 20MHz Band1

(CH 36)



(CH 40)



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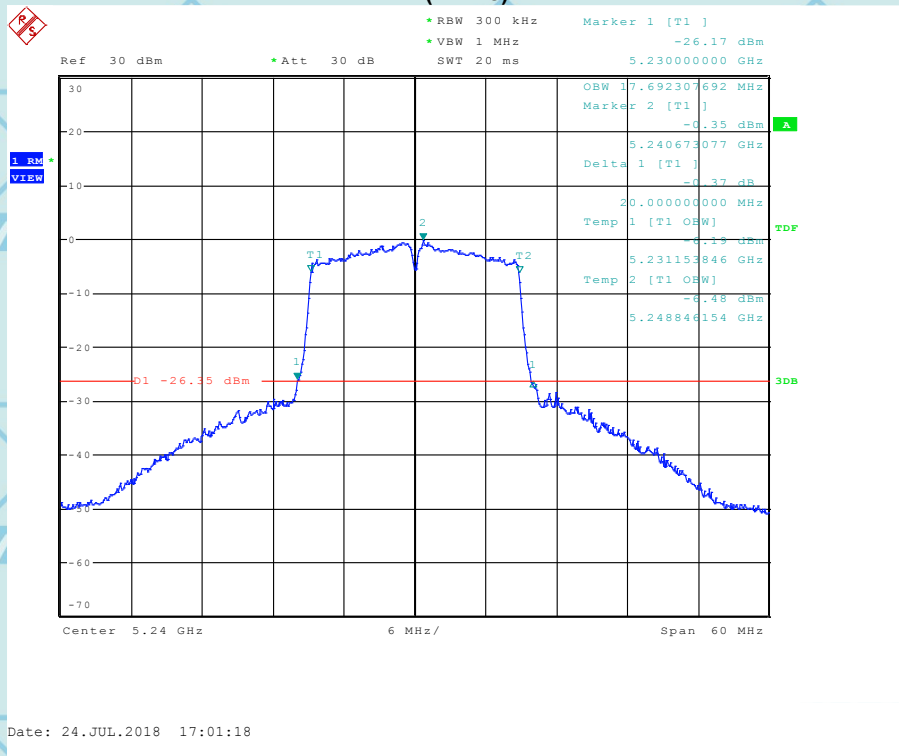
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 TEL: 86-755-26996143/26996144/26996145/26996192 FAX: 86-755-86376605 E-mail: Fengbing.Wang@wsct-cert.com Http: www.wsct-cert.com

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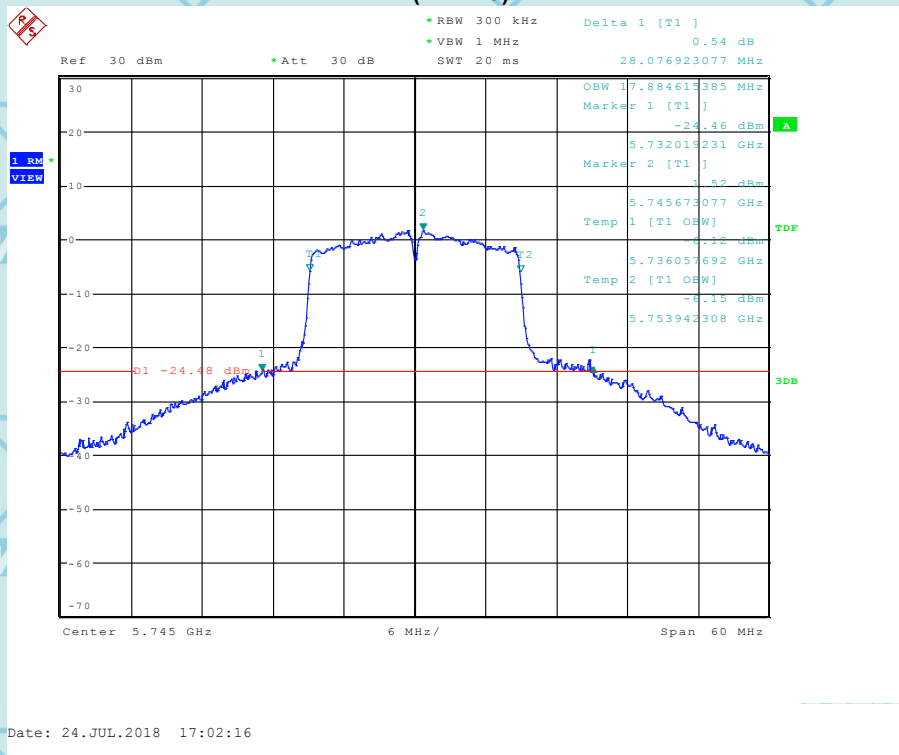
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**(CH 48)**



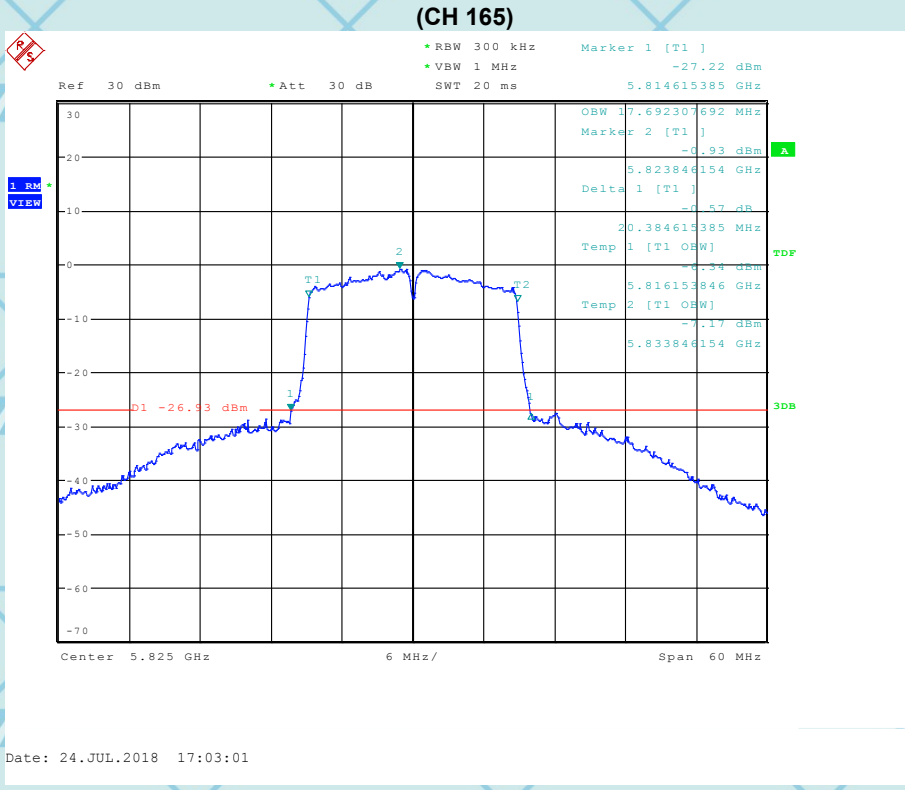
**IEEE 802.11ac 5G 20MHz Band4**

**(CH 149)**





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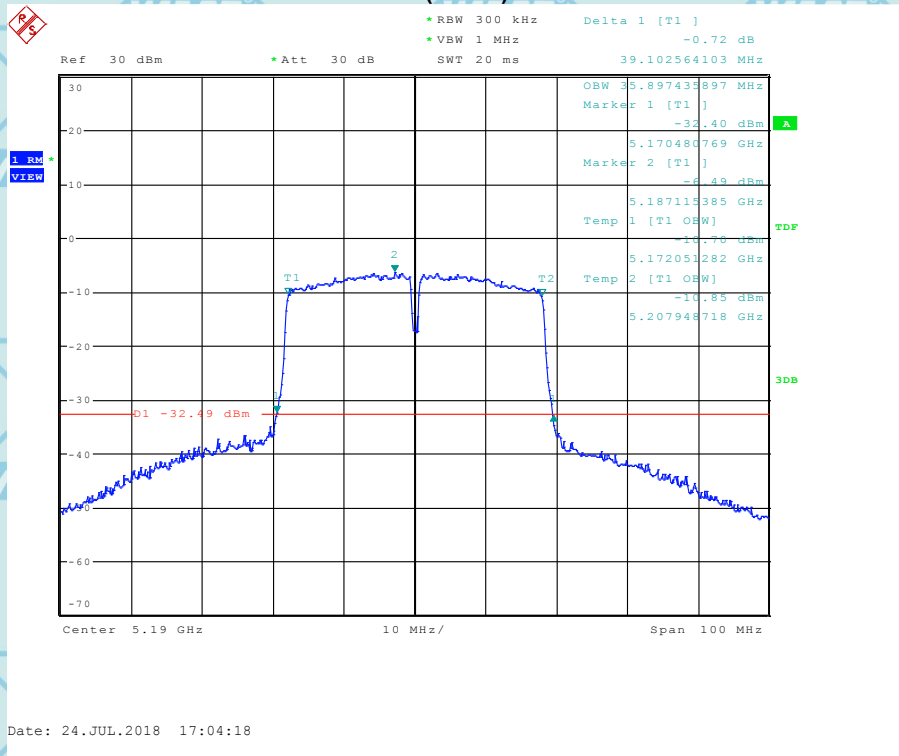




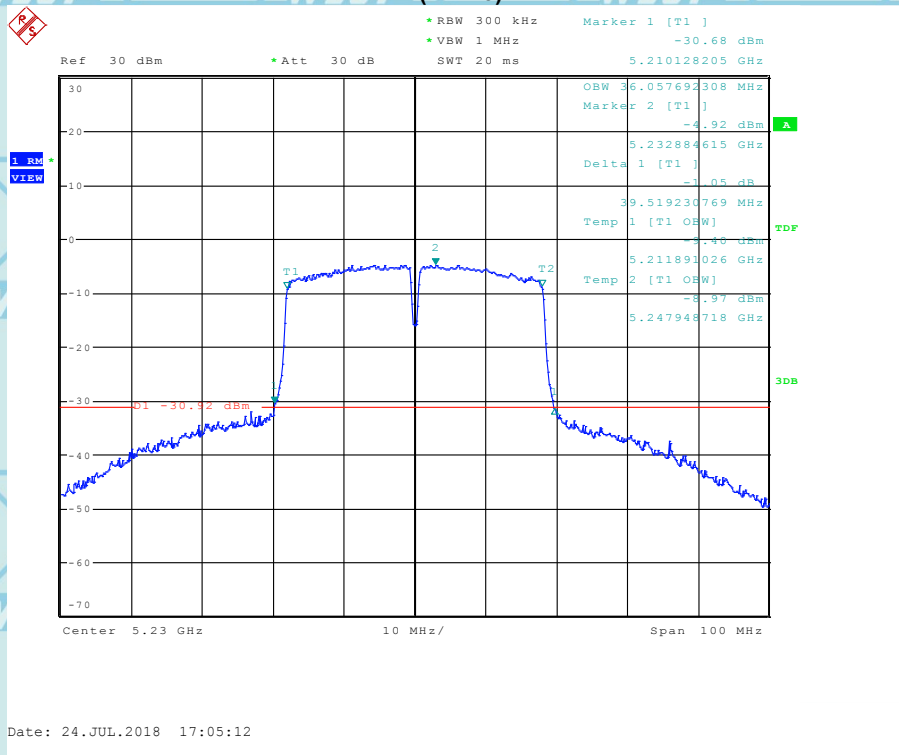
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**IEEE 802.11ac 5G 40MHz Band1**

**(CH 38)**



**(CH 46)**



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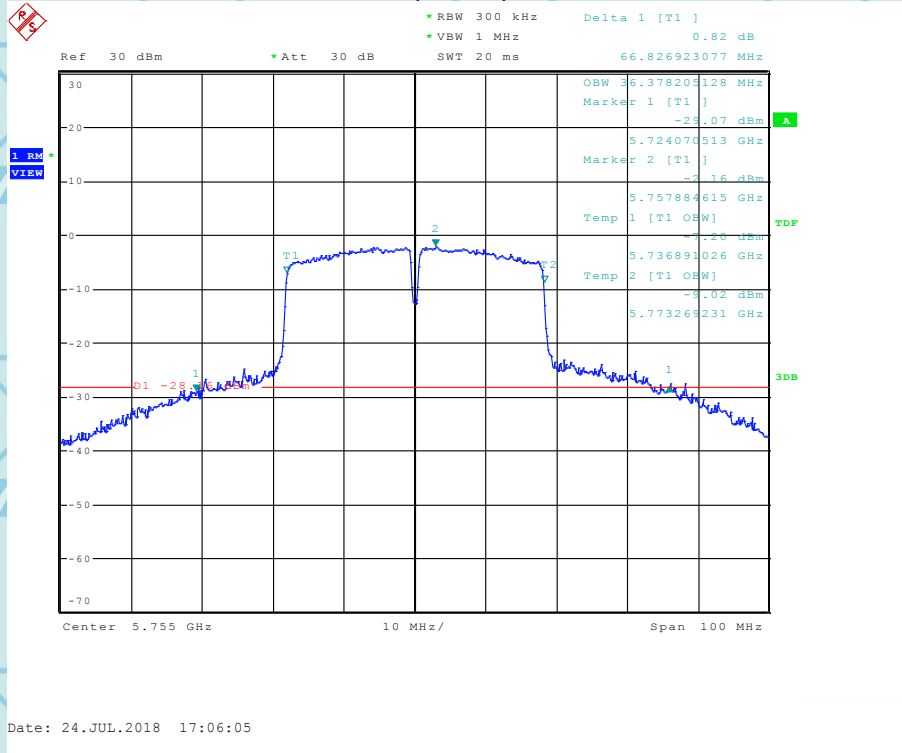
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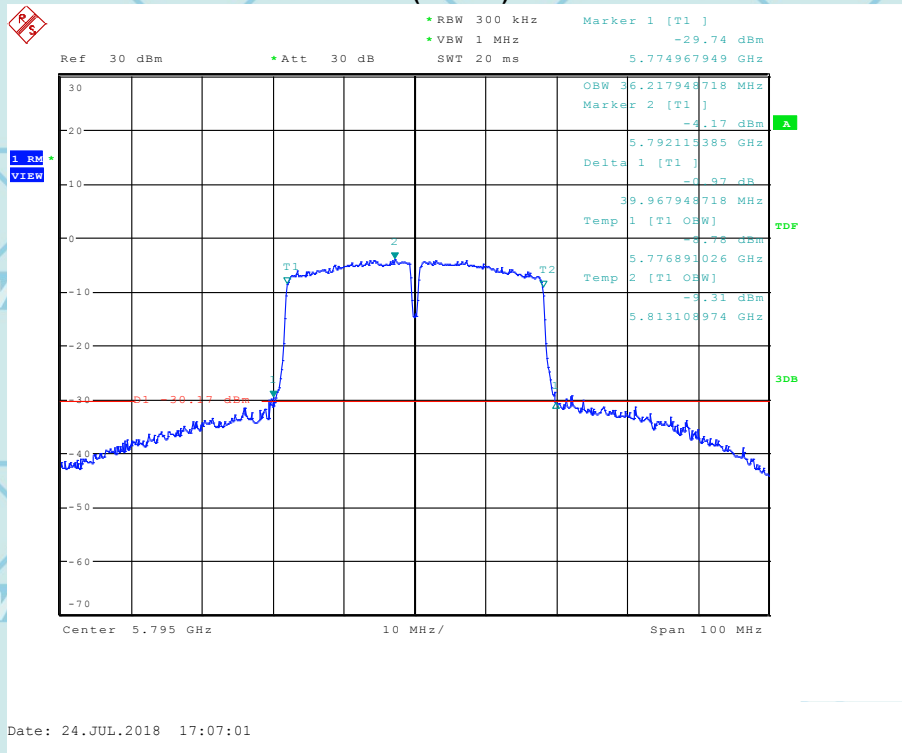
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IEEE 802.11ac 5G 40MHz Band4

(CH 151)



(CH 159)



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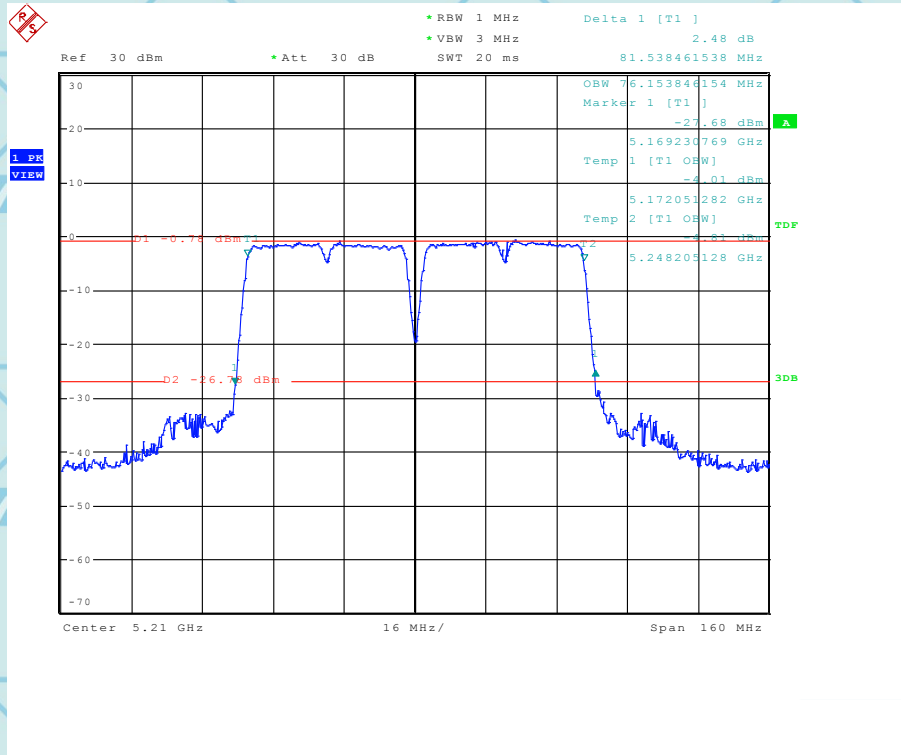
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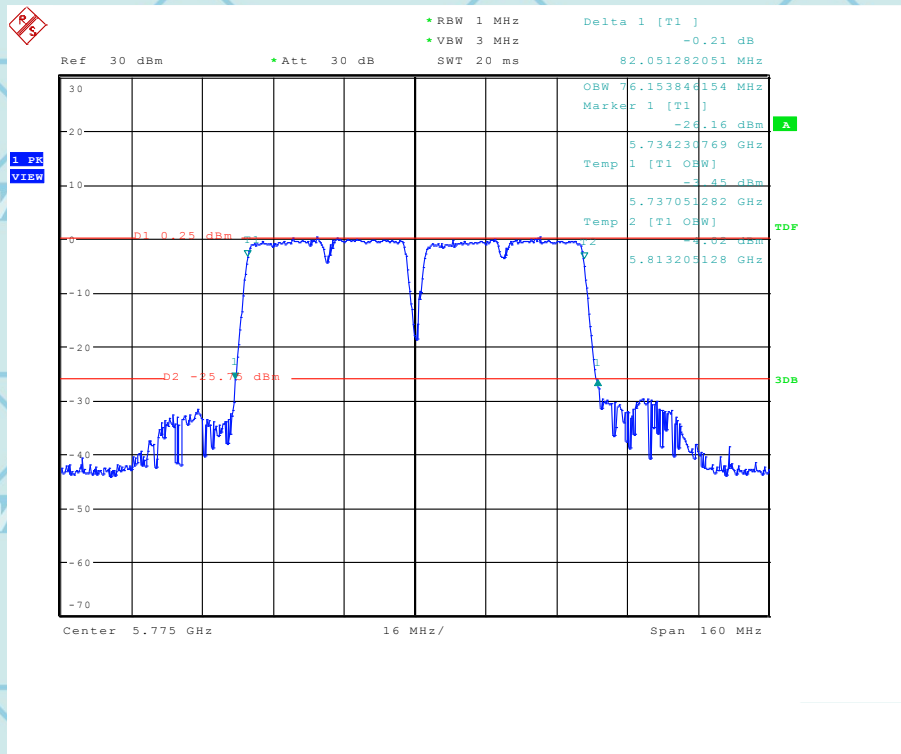
IEEE 802.11ac 5G 80MHz Band1

(CH 42)



IEEE 802.11ac 5G 80MHz Band4

(CH 5775)





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**6 dB Bandwidth**

<b>Product</b>	: Mobile phone	<b>Test Mode</b>	: See Section 2.2
<b>Test Item</b>	: 6 dB BW	<b>Temperature</b>	: 25°C
<b>Test Voltage</b>	: DC 3.85V	<b>Humidity</b>	: 56%RH
<b>Test Result</b>	: <b>PASS</b>		

**IEEE 802.11a**

Channel	Measured Frequency (MHz)	6 dB Bandwidth (MHz)	Limit
36	5180	16.44	> 0.5MHz
40	5200	17.66	> 0.5MHz
48	5240	16.41	> 0.5MHz

**Channel 36**

