RADIO TEST REPORT ETSI EN 300 440 V2.2.1 (2018-07)

Product : 4G Tablet Trade Mark : Blackview Model Name : Tab 16 Family Model : N/A Report No. : STR221031005005E

Prepared for

DOKE COMMUNICATION (HK) LIMITED

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Prepared by

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TEST RESULT CERTIFICATION

Applicant's name: DOKE COMMUNICATION (HK) LIMITED
Address
WANCHAI HK CHINA
Manufacturer's Name: Shenzhen DOKE Electronic Co.,Ltd
Address
Product description
Product name:: 4G Tablet
Trademark: Blackview
Model and/or type reference : Tab 16
Family Model : N/A
Standards : ETSI EN 300 440 V2.2.1 (2018-07)
This device described above has been tested by NTEK, and the test results show that the

equipment under test (EUT) is in compliance with the of article 3.2 of the Directive 2014/53/EU requirements. And it is applicable only to the tested sample identified in the report. This report shall not be reproduced except in full, without the written approval of NTEK, this document may be altered or revised by NTEK, personnel only, and shall be noted in the revision of the document.

Test Sample Number	T221031001R003
Date of Test	
Date (s) of performance of tests	Nov 02. 2022 ~ Dec 01. 2022
Date of Issue	Dec 02. 2022
Test Result	Pass

Testing Engineer

Men lin

(Allen Liu)

Authorized Signatory :

(Alex Li)

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	F	Revision History	
Report No.	Version	Description	Issued Date
STR221031005005E	Rev.01	Initial issue of report	Dec 02. 2022
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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards: ETSI EN 300 440 V2.2.1 (2018-07)

Clause	Description of Test Item	Remarks	Results
	Transmitter Parameters		<u> </u>
4.2.2	-6 dB channel bandwidth	Conducted	Pass
4.2.2	Effective isotropic radiated power	Conducted	Pass
4.2.3	Permitted range of operation frequencies	Conducted	🔔 Pass 🔨
4.2.4	Unwanted emissions in the spurious domain	Radiated	Pass
4.2.5	Duty cycle	Conducted	Pass
4.2.6	Additional requirements for FHSS equipment	Conducted	N/A
	Receiver Parameters		
4.3.3	Adjacent channel selectivity(For Receiver category 1)	Conducted	N/A
4.3.4	Blocking or desensitization(For Receiver category 1,2,3)	Conducted	Pass
4.3.5	Spurious emissions(For Receiver category 1,2,3)	Radiated	Pass

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Note: The antenna gain provided by customer is used to calculate the EIRP result. NTEK is not responsible for the accuracy of antenna gain parameter

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1.1 TEST FACILITY

Shenzhen NTEK Testing Technology Co., Ltd. Add. : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China

FCC Registered No.: 463705 IC Registered No.:9270A-1 CNAS Registration No.:L5516

1.2 MEASUREMENT 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	Radio frequency	±1 x 10-7
2	RF power (conducted)	±2,5 dB
3	Radiated emission of transmitter, valid to 26,5 GHz	±6 dB
4	Radiated emission of transmitter, valid between	±8 dB
	26,5 GHz and 66 GHz	
5	Radiated emission of receiver, valid to 26,5 GHz	±6 dB
6	Radiated emission of receiver, valid between 26,5	±8 dB
	GHz and 66 GHz	A A
7	Temperature	±1℃
8	Humidity	±5 %
9	Voltage (DC)	±1 %
10	Voltage (AC, < 10 kHz)	±2 %

achieve measurement uncertainties complying with the levels specified in this table. In these cases alone it is acceptable to employ the alternative interpretation procedure specified in EN 300440 V2.2.1 clause 5.9.1.

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2. GENERAL INFORMATION 2.1 GENERAL DESCRIPTION OF EUT

Equipment Trade Mark Model Name Family Model Model Difference	4G Tablet Blackview Tab 16 N/A N/A Operation	
Model Name Family Model	Tab 16 N/A N/A	
Family Model	N/A N/A	
	N/A	
Model Difference		
*	Operation	
the second	Operation	
	Frequency:	5745-5825 MHz for 802.11a/n20/ac20; 5755-5795 MHz for 802.11n40/ac40; 5775MHz for 802.11 ac80;
Arr A	Data Rate:	802.11a: 6,9,12,18,24,36,48,54Mbps; 802.11n(HT20/HT40):MCS0-MCS7; 802.11ac(VHT20/ VHT40/VHT80): NSS1, MCS0-MCS9, NSS2
A S	Modulation	OFDM with BPSK/QPSK/16QAM/64QAM/256QAM
Product Description	Channel No.:	5 channels for 802.11a/n20/ac20 in the 5745-5825MHz band ; 2 channels for 802.11 n40/ac40 in the 5755-5795MHz band ; 1 channels for 802.11 ac80 in the 5775MHz band ;
	Antenna Designation:	PIFA Antenna
	Antenna Gain(Peak)	1dBi
Receiver category	Category 1 e.g. serving hu physical risk to Category 2 e.g. causing in be overcome to Category 3 e.g. Inconvenie	: Highly reliable SRD communication media; iman life inherent systems (may result in a b a person). 2: Medium reliable SRD communication media convenience to persons, which cannot simply by other means. 3: Standard reliable SRD communication media ence to persons, which can simply be other means (e.g. manual).
Channel List	Refer to below	Z X Z
Adapter	Output: 5.0V or 7.0V or 9.0V	V~50/60Hz 0.5A 3.0A -2.0A
Battery	DC 3.8V, 7680	mAh
Rating	DC 3.8V from	battery or DC 5V from Adapter.
Hardware Version	P30-T616-V1.	0-221112-Q
Software Version	Tab_16_NEU_	P30_V1.0_20221122V01

Note:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- 2. Channel list:

Frequency and Channel list for 802.11a/n/ac(20 MHz) band IV (5745-5825MHz):

802.11a/n/ac(20 MHz) Carrier Frequency Channel							
Channel	Frequen cy (MHz)	Channel	Frequen cy (MHz)	Channel	Frequen cy (MHz)	Channel	Frequen cy (MHz)
149	5745	153	5765	157	5785	161	5805
165	5825	1 - -	-	-	-	- 入	

Frequency and Channel list for 802.11n/ac(40MHz) band IV (5755-5795MHz):

	802.11	n/ac 40MHz C	Carrier Frequenc	y Channel	<u>ملہ</u> (
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
151	5755	159	5795	_	Ļ.

Frequency and Channel list for 802.11ac(80MHz) band IV (5775MHz):

Channel	Frequency (MHz)
155	5775

2.2 TEST CONDITIONS

		Normal Test Conditions	Extreme Test Conditions		
	Temperature	15°C - 35°C	-10°C ~ 40°C _{Note1}		
	Relative Humidity	20% - 75%	N/A		
	Power Rating	DC 3.8V	< <u>∕</u> N/A		
	Test voltage	DC 3.8V	DC 4.2V-DC 3.4V Note2		

Note:

(1) The temperature range as declared by the manufacturer; or one of the following specified temperature ranges:

- Temperature category I (General): -20 °C to +55 °C;

- Temperature category II (Portable): -10 °C to +55 °C;

- Temperature category III (Equipment for normal indoor use): 5 °C to +35 °C.

(2) The High Voltage 4.2V and Low Voltage 3.4V was declarated by manufacturer.

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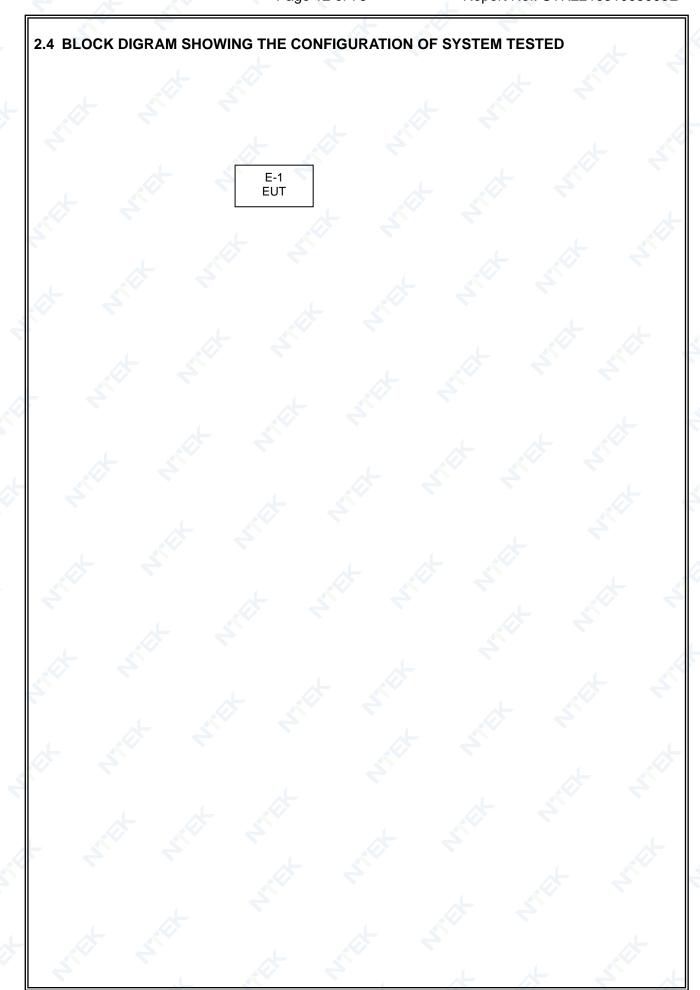
2.3 DESCRIPTION OF TEST CONDITIONS

	For Conducted Test				
Pretest Mode	Description				
Mode 1	802.11a /n/ ac 20 CH149/ CH157/ CH 165				
Mode 2	802.11n/ ac40 CH 151 / CH 159				
Mode 3	802.11 ac80 CH 155				

For Radiated Test					
Final Test Mode Description					
Mode 1	802.11a /n/ ac 20 CH149/ CH157/ CH 165				
Mode 2	802.11n/ ac40 CH 151 / CH 159				
Mode 3	802.11 ac80 CH 155				

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2.5 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

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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.

Equipment	Model/Type No.	Series No.	Note
4G Tablet	Tab 16	N/A	EUT
5			
		4	
			X X
A.	2	* *	
-			

Item	Shielded Type	Ferrite Core		Length		Note	
	×						
					5	·	
			*	5	P		
		<u>k</u> 2				1	
	*	<u> </u>		1			4

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" means "shielded" or "with ferrite core";"NO" means "unshielded" or "without ferrite core"

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2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

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EQUIPMENT TYPE	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
EMI Test Receiver R&S ESPI		ESPI7	101318	2022.04.06	2023.04.05	1 year
Bilog Antenna	TESEQ	CBL6111D	31216	2022.03.30	2023.03.29	1 year
Turn Table	EM 🧹	SC100_1	60531	N/A	N/A	Ň/A
Antnna Mast	EM 🔨	SC100	N/A	N/A	N/A	N/A
Horn Antenna	EM	EM-AH-10180	2011071402	2022.03.31	2023.03.30	1 year
Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2022.04.01	2023.03.31	1 year
Test Cable (30MHz-1GHz)	N/A	R-01	N/A	2022.06.17	2025.06.16	3 year
Test Cable (1-18GHz)	N/A	R-02	N/A	2022.06.17	2025.06.16	3 year
50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2020.05.11	2023.05.10	3 year
Pre-Amplifier	EMC	EMC051835SE	980246	2022.06.17	2023.06.16	1 year
Spectrum Analyzer	Agilent	E4407B	MY45108040	2022.04.01	2023.03.31	1 year
Filter	TRILTHIC	2400MHz	29	2020.04.07	2023.04.06	3 year
Attenuator	Weinschel	33-10-33	AR4010	2020.04.07	2023.04.06	3 year
Attenuator	Weinschel	24-20-34	BP4485	2020.04.07	2023.04.06	3 year
MXA Signal Analyzer	Agilent	N9020A	MY49100060	2022.06.17	2023.06.16	1 year
ESG VETCTOR SIGNAL GENERAROR	Agilent	E4438C	MY45093347	2022.04.01	2023.03.31	1 year
PSG Analog Signal Generator	Agilent	E8257D	MY51110112	2022.06.17	2023.06.16	1 year
Power Splitter	Mini-Circuits/ USA	ZN2PD-63-S+	SF025101428	2020.04.07	2023.04.06	3 year
Coupler	Mini-Circuits	ZADC-10-63-S +	SF794101410	2020.04.07	2023.04.06	3 year
Directional Coupler	MCLI/USA	CB11-20	0D2L51502	2020.07.17	2023.07.16	3 year
Attenuator	Agilent	8495B	MY42147029	2020.04.13	2023.04.12	3 year
Power Meter	DARE	RPR3006W	15I00041SNO 84	2022.06.17	2023.06.16	1 year
MXG Vector Signal Generator	Agilent	N5182A	MY47070317	2022.04.01	2023.03.31	1 year
Wideband Radio Communication Tester Specifications	R&S	CMW500	148500	2022.04.01	2023.03.31	1 year
temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A

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3. EQUIVALENT ISOTROPICALLY RADIATED POWER (E.I.R.P.)

3.1 APPLICABILITY

The equivalent isotropically radiated power requirement shall apply to all transmitters.

3.2 LIMITS

Table 2: Maximum radiated peak power (e.i.r.p.)

Frequency Bands	Power	Application	Notes
2 400 MHz to 2 483,5 MHz	10 mW e.i.r.p.	Non-specific short range devices	
2 400 MHz to 2 483,5 MHz	25 mW e.i.r.p.	Radio determination devices	
(a) 2 446 MHz to 2 454 MHz	500 mW e.i.r.p.	Radio Frequency Identification (RFID) devices	See also table 4 and annex D
(b) 2 446 MHz to 2 454 MHz	4 W e.i.r.p.	Radio Frequency Identification (RFID) devices	See also table 4 and annex D
5 725 MHz to 5 875 MHz	25 mW e.i.r.p.	Non-specific short range devices	
9 200 MHz to 9 500 MHz	25 mW e.i.r.p.	Radio determination devices	
9 500 MHz to 9 975 MHz	25 mW e.i.r.p.	Radio determination devices	
10,5 GHz to 10,6 GHz	500 mW e.i.r.p.	Radio determination devices	
13,4 GHz to 14,0 GHz	25 mW e.i.r.p.	Radio determination devices	
17,1 GHz to 17,3 GHz	400 mW e.i.r.p.	Radio determination devices	See annex F
24,00 GHz to 24,25 GHz	100 mW e.i.r.p.	Non-specific short range devices	
	4	and Radio determination devices	

3.3 GENERAL REQUIREMENTS

1. To measure e.i.r.p. it is first necessary to determine the appropriate method of measurement: see EN 300440 V2.2.1 clauses 4.2.2.3.1 and 4.2.2.3.2. The -6 dB transmitter bandwidth shall be determined using a 100 kHz measuring bandwidth in order to establish which measurement method is applicable:

Со	ndition	Method of measurement
Non spread spectrum transmitters with a -6 dB bandwidth of up to 20 MHz and spread		Refer to section 3.4.1
spectrum transmitters with channel bandwidth of up to 1 MHz;	Spread spectrum equipment with a -6 dB channel bandwidth of 1 MHz or less.	the star
for all other transmitter bandwidths.	☐equipment with a -6 dB bandwidth greater than 20 MHz, and equipment with a duty cycle below 50 %;; ⊠spread spectrum equipment with a channel bandwidth above 1 MHz	Refer to section 3.4.2

2. Measurements shall be performed at normal test conditions.

3.4 TEST PROCEDURES

3.4.1 FOR NON SPREAD SPECTRUM TRANSMITTERS

The measurement shall be repeated at the lowest, the middle, and the highest frequency of the stated frequency range. These frequencies shall be recorded. **Equipment measured as constant envelope modulation equipment**

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For practical reasons, measurements shall be performed only at the highest power level at which the transmitter is intended to operate. The measurement arrangement in figure 2 shall be used. The measurement shall be performed preferably in the absence of modulation.

When it is not possible to measure it in the absence of modulation, this fact shall be stated in test reports.

The transmitter shall be set in continuous transmission mode. If this is not possible, the measurements shall be carried

out in a period shorter than the duration of the transmitted burst. It may be necessary to extend the duration of the burst.

The transmitter shall be connected to an artificial antenna (see clause 5.8.2) and the power delivered to this artificial antenna shall be measured.

The equivalent isotropically radiated power is then calculated from the measured value, the known antenna gain, relative to an isotropic antenna, and if applicable, any losses due to cables and connectors in the measurement system.

Equipment measured as non-constant envelope modulation equipment

The measurement shall be performed with test signals D-M2 or D-M3 as appropriate. The transmitter shall be preferably set in continuous transmission mode. If this is not possible, the measurement can be performed in discontinuous mode.

The transmitter shall be connected to an artificial antenna (see clause 5.8.2) and the power delivered to this artificial antenna shall be measured. The measuring instrument shall have a measurement bandwidth not less than sixteen times the channel bandwidth.

The equivalent isotropically radiated power is then calculated from the measured value, the known antenna gain, relative to an isotropic antenna, and if applicable, any losses due to cables and connectors in the measurement system.

3.4.2 FOR ALL OTHER TRANSMITTER BANDWIDTHS

Step 1:

• using a suitable means, the output of the transmitter shall be coupled to a matched diode detector;

- the output of the diode detector shall be connected to the vertical channel of an oscilloscope;
- the combination of the diode detector and the oscilloscope shall be capable of faithfully

reproducing the envelope peaks and the duty cycle of the transmitter output signal;

• the observed duty cycle of the transmitter (Tx on/(Tx on + Tx off)) shall be noted as x, (0 < x < 1)And recorded.

Step 2:

• the average output power of the transmitter shall be determined using a wideband, calibrated RF power meter with a matched thermocouple detector or an equivalent thereof and, where applicable, with an integration period that exceeds the repetition period of the transmitter by a factor 5 or more. The observed value shall be recorded as "A" (in dBm);

• the e.i.r.p. shall be calculated from the above measured power output A, the observed duty cycle x, and the applicable antenna assembly gain "G" in dBi, according to the formula:

 $- P = A + G + 10 \log (1/x);$

- P should be EIRP POWER.

3.5 TEST SETUP LAYOUT



3.6 EUT OPERATION DURING TEST

Where possible, the equipment shall be able to operate in a continuous transmit mode for testing purposes.

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3.7 TEST RESULT FOR -6 DB BANDWIDTH

EUT :	4G Tablet	Model Name :	Tab 16
Temperature :	26°C	Relative Humidity :	60 %
Pressure :	1012 hPa	Test Voltage :	DC 3.8V (NORMAL)
Test Mode :	Mode 1/2/3	7	

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Test data reference attachment

3.8 TEST RESULT FOR E.I.R.P

EUT :	4G Tablet	Model Name :	Tab 16
Temperature :	26°C	Relative Humidity :	60 %
Pressure :	1012 hPa	Test Voltage :	DC 3.8V (NORMAL)
Test Mode :	Mode 1/2/3		

Test data reference attachment

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4. PERMITTED RANGE OF OPERATING FREQUENCIES

4.1 APPLIED PROCEDURES / LIMIT

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The Permitted range of operating frequencies shall apply to all transmitters.

Limits: The width of the power spectrum envelope is fH -fL for a given operating frequency. In equipment that allows adjustment or selection of different operating frequencies, the power envelope takes up different positions in the allowed band. The frequency range is determined by the lowest value of fL and the highest value of fH resulting from the adjustment of the equipment to the lowest and highest operating frequencies.

The occupied bandwidth (i.e. the bandwidth in which 99 % of the wanted emission is contained) of the transmitter shall fall within the assigned frequency band.

For all equipment the frequency range shall lie within the frequency band given by section 3.2, table 2. For non-harmonized frequency bands the available frequency range may differ between national administrations.

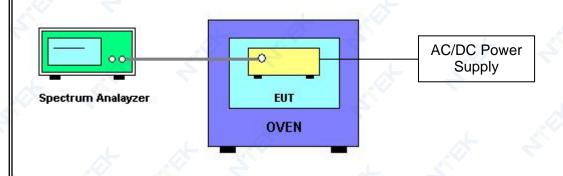
4.2 TEST PROCEDURES

These measurements shall be performed under both normal and extreme operating conditions except for the occupied bandwidth assessment for which measurement at normal operating conditions is sufficient.

The measurement procedure shall be as follows:

- a) put the spectrum analyser in video averaging mode with a minimum of 50 sweeps selected;
- b) select the lowest operating frequency of the equipment under test and activate the transmitter with modulation applied. The RF emission of the equipment shall be displayed on the spectrum analyser;
- c) using the marker of the spectrum analyser, find the lowest frequency below the operating frequency at which the spectral power density drops below the level given in clause 4.2.3. This frequency shall be recorded in the test report;
- d) select the highest operating frequency of the equipment under test and find the highest frequency at which the spectral power density drops below the value given in clause 4.2.3. This frequency shall be recorded in the test report;
- e) the difference between the frequencies measured in steps c) and d) is the operating frequency range. It shall be recorded in the test report.

4.3 TEST SETUP LAYOUT



4.4 EUT OPERATION DURING TEST

The EUT was programmed to be in continuously transmitting mode.

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4.5 TEST RESULTS

EUT :	4G Tablet	Model Name :	Tab 16
Temperature :	26°C	Relative Humidity :	60 %
Pressure :	1012 hPa	Test Voltage :	DC 3.8V (NORMAL)
Test Mode :	тх	7	× ×

Note: The normal test condition refer to attachment for Occupied Channel Bandwidth 802.11a

	Evéreme condition			Frequency ra	ange (MHz)
E	Extreme condition				F _н CH165
T nom (°C)	20	V nom (V)	3.8	5736.633	5833.085
5		V max (V)	4.2	5736.644	5833.093
T min (°C) -10	-10	V nom (V)	3.8	5736.655	5833.101
		V min (V)	3.4	5736.666	5833.109
		V max (V)	4.2	5736.677	5833.117
T max (°C) 40	V nom (V)	3.8	5736.688	5833.125	
	V min (V)	3.4	5736.699	5833.133	
Min. f _L / Max. f _H Band Edges			5736.633	5833.133	
A 4		· ! (-	X	F _L > 5725.0	$F_{L} < 5875.0$
Indoor Use Limits				MHz	MHz 🔶
	Result			Com	plies

802.11n20

F			Frequency	range (MHz)	
EX	treme cond	ition		FL CH149 📈	F _н CH165
T nom (°C)	20	V nom (V)	3.8	5736.325	5833.915
4		V max (V)	4.2	5736.336	5833.923
T min (°C)	-10	V nom (V)	3.8	5736.347	5833.931
		V min (V)	3.4	5736.358	5833.939
	7	V max (V)	4.2	5736.369	5833.947
T max (°C)	40	V nom (V)	3.8	5736.38	5833.955
		V min (V)	3.4	5736.391	5833.963
Min. f∟ /	Max. f _H Ba	and Edges		5736.325	5833.963
<u> </u>				$F_L > 5725.0$	$F_{L} < 5875.0$
In	Indoor Use Limits Result			MHz	MHz
				Con	nplies

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802.11n40

Extreme condition				Frequency	range (MHz)
		F _L CH151	F _н CH159		
T nom (°C)	20	V nom (V)	3.8	5737.047	5813.183
		V max (V)	4.2	5737.058	5813.191
T min (°C)	-10 🗬	V nom (V)	3.8	5737.069	5813.199
		V min (V)	3.4	5737.08	5813.207
		V max (V)	4.2	5737.091	5813.215
T max (°C)	40	V nom (V)	3.8	5737.102	5813.223
	- Č	V min (V)	3.4	5737.113	5813.231
Min.	. f _L / Max	. f _H Band Edg	es	5737.047	5813.231
Indoor Use Limits				F _L > 5725.0 MHz	F _L < 5875.0 MHz
	R	esult	×	Con	nplies

802<u>.11ac20</u>

Extreme condition				Frequency	range (MHz)
	Extreme	condition		FL CH149	F _н CH165
T nom (°C)	20	V nom (V)	3.8	5736.057	5833.675
	_	V max (V)	4.2	5736.068	5833.683
T min (°C)	-10	V nom (V)	3.8	5736.079	5833.691
		V min (V)	3.4	5736.09	5833.699
		V max (V)	4.2	5736.101	5833.707
T max (°C)	40	V nom (V)	3.8	5736.112	5833.715
		V min (V)	3.4	5736.123	5833.723
Min.	f_L / Max.	f _H Band Edge	s	5736.057	5833.723
Indoor Use Limits				F _L > 5725.0 MHz	F _L < 5875.0 MHz
	Re	esult		Con	nplies

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	tromo condi	Frequency range (MHz)				
Extreme condition			F _L CH151	F _н CH159		
T nom (°C)	20	V nom (V)	3.8	5737.747	5813.902	
		V max (V)	4.2	5737.758	5813.91	
T min (°C)	-10	V nom (V)	3.8	5737.769	5813.918	
		V min (V)	3.4	5737.78	5813.926	
		V max (V)	4.2	5737.791	5813.934	
T max (°C)	40	V nom (V)	3.8	5737.802	5813.942	
		V min (V)	3.4	5737.813	5813.95	
🤶 Min. f _L /	Max. f _H Ba	nd Edges		5737.747	5813.950	
Indoor Use Limits				F _L > 5725.0 MHz	F _L < 5875.0 MHz	
	Result		1	Complies		

		Frequency range (MHz)			
Extreme condition		F _L CH155	F _н CH155		
T nom (°C)	20	V nom (V)	3.8	5737.486	5812.727
X	·	V max (V)	4.2	5737.497	5812.735
T min (°C)	-10	V nom (V)	3.8	5737.508	5812.743
		V min (V)	3.4	5737.519	5812.751
		V max (V)	4.2 <	5737.53	5812.759
T max (°C)	40	V nom (V)	3.8	5737.541	5812.767
- KAN		V min (V)	3.4	5737.552	5812.775
Min. f _L / I	Max. f _H Ba	nd Edges		5737.486	5812.775
			1	F _L > 5725.0	$F_{L} < 5875.0$
Indoor Use Limits Result			MHz	MHz	
			Complies		

5. UNWANTED EMISSIONS IN THE SPURIOUS DOMAIN

5.1 APPLIED PROCEDURES / LIMIT

The unwanted emissions in the spurious domain requirement shall apply to all transmitters.

2		47 MHz to 74 MHz	* * `	
	State	87.5 MHz to 118 MHz	Other frequencies	Frequencies
	Sidle	174 MHz to 230 MHz	≤□1 000 MHz	> 1 000 MHz
Â		470 MHz to 862 MHz		
	Operating	4 nW /-54dBm 📈	250 nW/-36dBm	1 µW /-30dBm
	Standby	2 nW /-57dBm	2 nW /-57dBm	20 nW /-47dBm

5.2 MEASURING INSTRUMENTS AND SETTING

The following table is the setting of the Spectrum Analyzer.

Setting	
Auto	5
30 MHz	
40GHz	
Positive Peak	
Auto	
For frequency 30MHz~1G:100 kHz~120 kHz	L.
For frequency above 1G:1MHz	
	Auto 30 MHz 40GHz Positive Peak Auto For frequency 30MHz~1G:100 kHz~120 kHz

5.3 TEST PROCEDURES

- a. The EUT was placed on the top of the turntable in open test site area.
- b. The test shall be made in the transmitting mode. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- c. This measurement shall be repeated with the transmitter in standby mode where applicable.
- d. For 30~1000MHz spurious emissions measurement, the broad band bi-log receiving antenna was placed 3 meters far away from the turntable. For above 1G, using Horn antenna .
- e. The broadband receiving antenna was fixed on the same height with the EUT to find each suspected emissions of both horizontal and vertical polarization. Each recorded suspected value is indicated as Read Level (Raw).
- f. Replace the EUT by standard antenna and feed the RF port by signal generator.
- g. Adjust the frequency of the signal generator to the suspected emission and slightly rotate the turntable to locate the position with maximum reading.
- h. Adjust the power level of the signal generator to reach the same reading with Read Level (Raw).
- i. The level of the spurious emission is the power level of (8) plus the gain of the standard antenna in dBi and minus the loss of the cable used between the signal generator and the standard antenna.
- j. If the level calculated in (9) is higher than limit by more than 6dB, then lower the RBW of the spectrum analyzer to 30KHz. If the level of this emission does not change by more than 2dB, then it is taken as narrowband emission, otherwise, wideband emission.
- k. The measurement shall be repeated at the lowest and the highest channel of the stated frequency range.

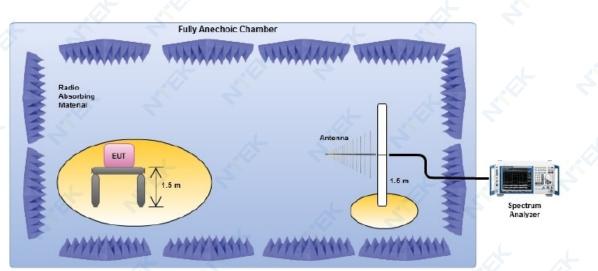
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5.4 TEST SETUP LAYOUT

Radiated Emission Test Set-Up



5.5 EUT OPERATION DURING TEST

The EUT was programmed to be in continuously transmitting mode.

5.6 RESULTS OF STANDBY MODE SPURIOUS EMISSIONS

For the initial investigation on standby mode and receiving mode, no significant differences in spurious emissions were observed between these 2 modes. So test data for standby mode was omitted in this section.

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5.7 TEST RESULTS

EUT:	4G Tablet	Model Name :	Tab 16
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Power :	DC 3.8V (NORMAL)
Test Mode :	TX-802.11n20 mode	~	イ ヘ

Below 1G :

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	Туре
V	43.886	-72.06	14.47	-57.59	-36	-21.59	peak
V	94.66	-84.09	7.22	-76.87	-54	-22.87	peak
V	152.56	-68.8	12.25	-56.55	-36	-20.55	peak
V	200.677	-83.4	13.31	-70.09	-54	-16.09	peak
V	234.347	-70.65	15.91	-54.74	-36	-18.74	peak
V	716.451	-85.19	21.65	-63.54	-54	-9.54	peak
Н	33.397	-72.69	18.31	-54.38	-36	-18.38	peak
H	91.268	-77.45	6.20	-71.25	-54	-17.25	peak
Н	137.917	-74.13	10.27	-63.86	-36	-27.86	peak
Н	192.196	-79.15 🔨	12.05	-67.10	-54	-13.10	peak
Н	294.077	-76.51	12.93	-63.58	36	-27.58	peak
Н	546.987	-87.82	17.58	-70.24	-54 🔨	-16.24	peak

Remark:

Emission Level= Meter Reading+ Factor, Margin= Emission Level- Limit

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Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detecto
(H/V)	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	Туре
		ор	eration frequen	cy:5755 MHz			L-
V	2555.008	-72.39	2.61	-69.78	-30	-39.78	peak
V	4132.53	-74.85	3.32	-71.53	-30	-41.53	peak
V	2113.828	-77.88	8.34	-69.54	-30	-39.54	peak
V	3921.806	-75.66	8.72	-66.94	-30	-36.94	peak
Н	2211.921	-71.15	3.12	-68.03	-30	-38.03	peak
Н	5370.279	-72.79	8.53	-64.26	-30	-34.26	peak
Н	2613.205	-76.86	9.58	-67.28	-30	-37.28	peak
Н	3007.067	-68.75	14.73	-54.02	-30	-24.02	peak
		ор	eration frequen	cy:5785 MHz		~	Å
V	2360.059	-77.76	2.61	-75.15	-30	-45.15	peak
V	3532.149	-67.17	3.32	63.85	-30	-33.85	peak
V	2597.671	-67.88	8.34	-59.54	-30	-29.54	peak
V	4444.129	-69.62	8.72	-60.90	-30	-30.90	peak
V	2438.368	-68.07	3.12	-64.95	-30	-34.95	peak
H	4148.113	-77.71	8.53	-69.18	-30	-39.18	peak
Н	2516.226	-70.3	9.58	-60.72	-30	-30.72	peak
Н	3231.917	-68.89	14.73	-54.16	-30	-24.16	peak
Н	3737.928	-77	14.73	-62.27	-30	-32.27	peak
		🔷 ор	eration frequen	cy:5825 MHz	۲.	-	
V	2517.107	-71.66	2.61	-69.05	-30	-39.05	peak
V	4541.675	-69.15	3.32	-65.83	-30	-35.83	peak
V	2393.869	-70.76	8.34	-62.42	-30	-32.42	peak
V	4413.746	-71.99	8.72	-63.27	-30	-33.27	peak
V	2552.596	-74.23	3.12	-71.11	-30	-41.11	peak
Н	4108.559	-67.95	8.53	-59.42	-30	-29.42	peak
Н	2959.291	-71.04	9.58	-61.46	-30	-31.46	peak
Н	3277.051	-70.71	14.73	-55.98	-30	-25.98	peak
Н	4576.982	-70.38	14.73	-55.65	-30	-25.65	peak

Emission Level= Meter Reading+ Factor, Margin= Emission Level- Limit

Note: Only the worst case 802.11n20 mode recorded in the report.

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6. DUTY CYCLE

6.1 APPLICABILITY AND DESCRIPTION

Duty Cycle (DC) shall apply to all transmitting equipment except those which utilize Listen Before Talk (LBT) clause 4.4.2, or Detect And Avoid (DAA), clause 4.4.3. RFID transmitters operating in the 2 446 MHz to 2 454 MHz frequency band that transmit at a maximum radiated peak power level of less than 500 mW e.i.r.p. are also excluded.

Duty cycle is the ratio expressed as a percentage, of the cumulative duration of transmissions T_{on_cum} within an observation interval T_{obs} .

$$DC = \left(\frac{T_{on_cum}}{T_{obs}}\right)F_{obs}$$

on an observation bandwidth F_{obs}.

Unless otherwise specified, $T_{\mbox{\tiny obs}}$ is 1 hour and the observation bandwidth $F_{\mbox{\tiny obs}}$ is the operational frequency band

Each transmission consists of an RF emission, or sequence of RF emissions separated by intervals $< T_{Dis}$.

6.2 LIMITS

Table 4 defines the maximum duty cycle within a 1 hour period. Table 4: Duty cycle limits

Francisco Band	Duty avair	Application	Nata
Frequency Band	Duty cycle	Application	Notes
2 400 MHz to 2 483,5 MHz	No Restriction	Generic use	
2 400 MHz to 2 483,5 MHz	No Restriction	Detection, movement and alert applications	
(a) 2 446 MHz to 2 454 MHz	No Restriction	RFID	Limits shown in annex D shall apply
(b) 2 446 MHz to 2 454 MHz	≤ 15 %	RFID	Limits shown in annex D shall apply
5 725 MHz to 5 875 MHz	No Restriction	Generic use	
9 200 MHz to 9 500 MHz	No Restriction	Radiodetermination: radar, detection, movement and alert applications	
9 500 MHz to 9 975 MHz	No Restriction	Radiodetermination: radar, detection, movement and alert applications	* *
10,5 GHz to 10,6 GHz	No Restriction	Radiodetermination: radar, detection, movement and alert applications	
13,4 GHz to 14,0 GHz	No Restriction	Radiodetermination: radar, detection, movement and alert applications	
17,1 GHz to 17,3 GHz	DAA or equivalent techniques	Radiodetermination: GBSAR detecting and movement and alert applications	Limits shown in annex F shall apply
24,00 GHz to 24,25 GHz	No Restriction	Generic use and for Radiodetermination: radar, detection, movement and alert applications	×

For devices with a 100 % duty cycle transmitting an unmodulated carrier most of the time, a time-out shut-off facility shall be implemented in order to improve the efficient use of spectrum. The method of implementation shall be declared by the manufacturer.

6.4 METHOD OF MEASUREMENT

Please refer to EN 300440 V2.2.1 Clause 4.2.5.3.

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6.5 TEST SETUP			
EUT	Spectrum Analyzer	PC (Test Software)	

6.6 TEST RESULTS

EUT:	4G Tablet	Model Name:	Tab 16
Temperature:	26°C	Relative Humidity:	53 %
Pressure:	1012 hPa	Test Voltage:	DC 3.8V (NORMAL)
Test Mode:	Mode 1/2/3		

Test data reference attachment

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7. SPURIOUS EMISSIONS - RX

7.1 APPLIED PROCEDURES / LIMIT

Clause	Test Item	Frequency(MHz)	Limit
	Spurious emissions	30-1000	-57dBm
4.3.5.4	(radiated)	Above 1000	-47dBm

7.2 MEASURING INSTRUMENTS AND SETTING

The following table is the setting of the Spectrum Analyzer.

Spectrum Analyzer	Setting
Attenuation	Auto
Start Frequency	30 MHz
Stop Frequency	40GHz
Detector	Positive Peak
Sweep Time	Auto
RB 🔶	For frequency 30MHz~1G:100 kHz~120 kHz
	For frequency above 1G:1MHz

7.3 TEST PROCEDURES

- a. The EUT was placed on the top of the turntable in open test site area.
- b. The test shall be made in the receiving mode. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- c. For 30~1000MHz spurious emissions measurement, the broad band bi-log receiving antenna was placed 3 meters far away from the turntable.For above 1G, using Horn antenna .
- d. The broadband receiving antenna was fixed on the same height with the EUT to find each suspected emissions of both horizontal and vertical polarization. Each recorded suspected value is indicated as Read Level (Raw).
- e. Replace the EUT by standard antenna and feed the RF port by signal generator.
- f. Adjust the frequency of the signal generator to the suspected emission and slightly rotate the turntable to locate the position with maximum reading.
- g. Adjust the power level of the signal generator to reach the same reading with Read Level (Raw).
- h. The level of the spurious emission is the power level of (7) plus the gain of the standard antenna in dBi and minus the loss of the cable used between the signal generator and the standard antenna.
- i. The measurement shall be repeated at the lowest and the highest channel of the stated frequency range.

7.5 TEST SETUP LAYOUT

This test setup layout is the same as that shown in section 5.4.

7.6 EUT OPERATION DURING TEST

The EUT was programmed to be in continuously receiving mode.

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7.7 TEST RESULTS

EUT :	4G Tablet	Model Name :	Tab 16
Temperature :	26°C	Relative Humidity :	53 %
Pressure :	1012 hPa	Test Power :	DC 3.8V (NORMAL)
Test Mode :	RX-802.11n20 mode	4	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~

Below 1G :

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(H/V)	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	Туре
V	35.72	-82.37	18.82	-63.55	-57	-6.55	peak
V	101.778	-84.71	11.11	-73.60	-57	-16.60	peak
V	203.168	-77.08	11.41	-65.67	-57	-8.67	peak
V	336.146	-82.47	12.72	-69.75	-57	-12.75	peak
V	472.473	-77.71	12.66	-65.05	-57	-8.05	peak
V	663.715	-83.19	12.62	-70.57	-57	-13.57	peak
Н	34.996	-82.4	19.94	-62.46	-57	-5.46	peak
H	116.891	-81.27	10.96	-70.31	-57	-13.31	peak
Н	196.823	-80.34	9.42	-70.92	-57	-13.92	peak
Н	465.792	-83.66	12.65	-71.01	-57	-14.01	peak
Н	581.033	-81.34	11.78	-69.56	-57	-12.56	<pre>> peak</pre>
H	572.652	-77.13	15.38	-61.75	-57 🦯	-4.75	peak
		•					

Remark:

Emission Level= Meter Reading+ Factor, Margin= Emission Level- Limit

Above 1G :

(H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	В)
V	2682.874	-77.98	11.33	-66.65	-47	-19.65	peak
V	5493.514	-81.15	10.97	-70.18	-47	-23.18	peak
V	2471.352	-82.13	10.14	-71.99	-47	-24.99	peak
V	3060.509	-83.89	16.83	-67.06	-47	-20.06	peak 🚽
V	2820.712	-84.34	10.52	-73.82	-47	-26.82	peak
Н	5298.922	-80.58	11.70	-68.88	-47	-21.88	peak
Н	2168.203	-78.59	6.62	-71.97	-47	-24.97	peak
Н	5948.379	-84.95	14.99	-69.96	-47	-22.96	peak 🗸
Н	4165.896	-69.67	8.25	-61.42	-47	-14.42	peak
Н	4663.77	-77.11	14.99	-62.12	-47	-15.12	peak

Remark:

Emission Level= Meter Reading+ Factor, Margin= Emission Level- Limit

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8. ADJACENT CHANNEL SELECTIVITY

8.1 APPLICABILITY

This requirement applies to channelized Category 1 receivers..

8.2 LIMITS

The adjacent channel selectivity of the equipment under specified conditions shall not be less than -30 dBm + k.

The correction factor, k, is as follows:

 $k = -20\log f - 10\log BW$

Where:

- f is the frequency in GHz;

- BW is the channel bandwidth in MHz.

The factor k is limited within the following:

- -40 dB < k < 0 dB.

8.3 METHODS OF MEASUREMENT

This measurement shall be conducted under normal conditions.

Two signal generators A and B shall be connected to the receiver via a combining network to the receiver, either:

a) via a test fixture or a test antenna to the receiver integrated, dedicated or test antenna; or b) directly to the receiver permanent or temporary antenna connector.

The method of coupling to the receiver shall be stated in the test report.

Signal generator A shall be at the nominal frequency of the receiver, with normal modulation of the wanted signal.

Signal generator B shall be unmodulated and shall be adjusted to the adjacent channel centre frequency immediately

above that of the wanted signal.

Initially signal generator B shall be switched off and using signal generator A the level that still gives sufficient

response shall be established. The output level of generator A shall then be increased by 3 dB. Signal generator B is then switched on and adjusted until the wanted criteria are met. This level shall be recorded.

The measurements shall be repeated with signal generator B unmodulated and adjusted to the adjacent channel centre immediately below the wanted signal.

The adjacent channel selectivity shall be recorded for the upper and lower adjacent channels as the level in dBm of the unwanted signal.

For tagging systems (e.g. RF identification, anti-theft, access control, location and similar systems) signal generator A may be replaced by a physical tag positioned at 70 % of the measured system range in metres.

In this case, the adjacent selectivity shall be recorded as the level in dBm of lowest level of the unwanted signal

(generator B) resulting in a non-read of the tag.

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8.5 TEST RESULTS

EUT :	4G Tablet	Model Name	Tab 16
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	N/A
Test Mode :	N/A		

Not applicable.

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9. BLOCKING OR DESENSITIZATION

9.1 APPLICABILITY

This requirement applies to all Category 1, 2, and 3 SRD communication media receivers.

9.2 LIMITS

The blocking level, for any frequency within the specified ranges, shall not be less than the values given in table 6, except at frequencies on which spurious responses are found.

Receiver category	Limit
	-30 dBm + k
2	-45 dBm + k
3	-60 dBm + k

The correction factor, k, is as follows:

k =⊡-20log f -10log BW

Where:

- f is the frequency in GHz;

- BW is the channel bandwidth in MHz.

The factor k is limited within the following:

- -40 dB < k < 0 dB.

9.3 TEST PROCEDURES

This measurement shall be conducted under normal conditions.

Two signal generators A and B shall be connected to the receiver via a combining network to the receiver, either:

a) via a test fixture or a test antenna to the receiver integrated, dedicated or test antenna; or

b) directly to the receiver permanent or temporary antenna connector.

The method of coupling to the receiver shall be stated in the test report.

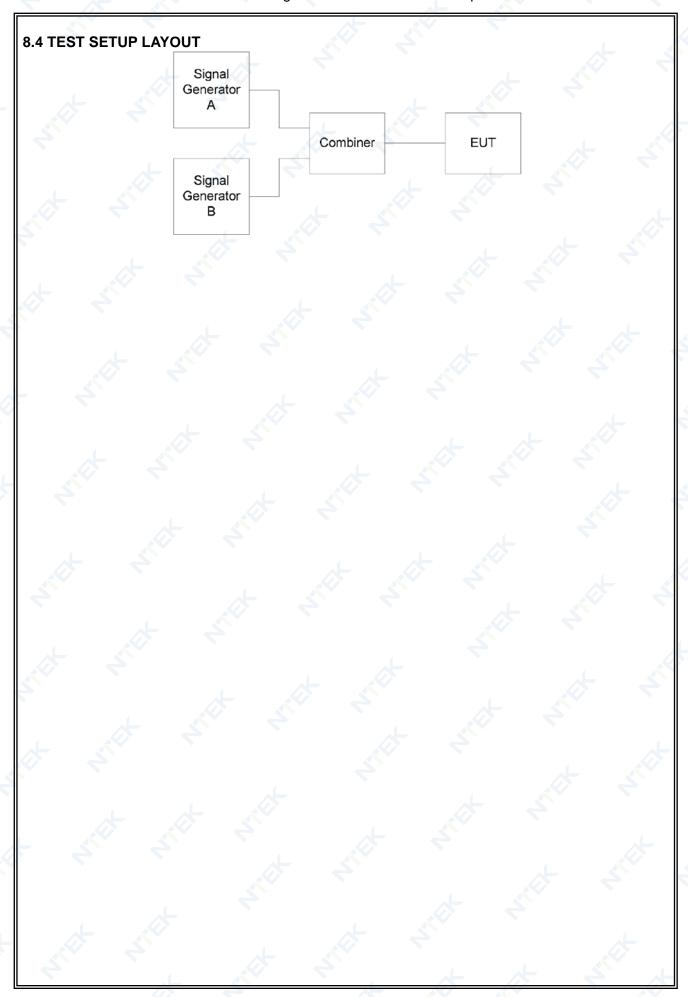
Signal generator A shall be at the nominal frequency of the receiver, with normal modulation of the wanted signal.Signal generator B shall be unmodulated and shall be adjusted to a test frequency at approximately 10 times, 20 times and 50 times of the occupied bandwidth above upper band edge of occupied bandwidth.Initially signal generator B shall be switched off and using signal generator A the level which still gives sufficient response shall be established. The output level of generator A shall then be increased by 3 dB.Signal generator B is then switched on and adjusted until the wanted criteria are met. This level shall be recorded.

The measurement shall be repeated with the test frequency for signal generator B at 10 times, 20 times and 50 times of the occupied bandwidth below the lower band edge of the occupied bandwidth. The blocking or desensitization shall be recorded as the level in dBm of lowest level of the unwanted signal(generator B).

For tagging systems (e.g. RF identification, anti-theft, access control, location and similar systems) signal generator A may be replaced by a physical tag positioned at 70 % of the measured system range in metres. In this case, the blocking or desensitization shall be recorded as the ratio in dB of lowest level of the unwanted signal (generator B) resulting in a non-read of the tag. to the declared sensitivity of the receiver +3 dB.

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9.4 TEST RESULTS

EUT :	4G Tablet	Model Name :	Tab 16
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	DC 3.8V (NORMAL)
Test Mode :	RX 🔶 🖉	2	

802.11a

5745 MHz

Flow= 5736.723MHz; Fhigh= 5753.249MHz, occupied bandwidth=16.526MHz

Receiver category	Frequency offset	Test Frequency (MHz)	Measurement Vause(dB) (Generator A)	Measurement Vause(dB) (Generator B)	≧Limit(dB)
	5745 MHz	5745	-65.47	1	-
	10 times lower band edge of the occupied bandwidth	5571.463	-	-30.21	-87.37(Note1)
	20 times lower band edge of the occupied bandwidth	5406.203	-	-33.22	-87.37
3	50 times lower band edge of the occupied bandwidth	4910.423	L - X	-33.24	-87.37
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	10 times upper band edge of the occupied bandwidth	5918.509	1	-32.14	-87.37
-	20 times upper band edge of the occupied bandwidth	6083.769	-	-32.21	-87.37
Å	50 times upper band edge of the occupied bandwidth	6579.549	- 4	-32.34	-87.37

#### Note1:

The limit : -60 dBm + k

The correction factor, k, is as follows:

 $k = -20\log f - 10\log BW$ 

Where:

- f is the frequency in GHz;
- BW is the occupied bandwidth in MHz.

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#### 802.11a

#### 5825 MHz

Flow=5816.721MHz; Fhigh= 5833.251MHz, occupied bandwidth=16.53MHz

Receiver category	Frequency offset	Test Frequency (MHz)	Measurement Vause(dB) (Generator A)	Measurement Vause(dB) (Generator B)	≧Limit(dB)
	5825 MHz	5825	-65.47	-	-
3 of th 20 t of th 50 t 3 of th 10 ti of th 20 ti of th 50 ti	10 times lower band edge of the occupied bandwidth	5651.421	-	-30.11	-87.49(Note1)
	20 times lower band edge of the occupied bandwidth	5486.121	1	-32.16	-87.49
	50 times lower band edge of the occupied bandwidth	4990.221	<u> Т</u>	-33.11	-87.49
	10 times upper band edge of the occupied bandwidth	5998.551	-	-33.25	-87.49
	20 times upper band edge of the occupied bandwidth	6163.851	<u>ل</u>	-32.16	-87.49
	50 times upper band edge of the occupied bandwidth	6659.751	<u> </u>	-31.24	-87.49

#### Note1:

The limit :

-60 dBm + k

The correction factor, k, is as follows:

 $k = -20 \log f - 10 \log BW$ 

k = -27.49

Where:

- f is the frequency in GHz;

- BW is the occupied bandwidth in MHz.

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## Report No.: STR221031005005E

## 802.11n20

Receiver category	Frequency offset	Test Frequency (MHz)	Measurement Vause(dB) (Generator A)	Measurement Vause(dB) (Generator B)	≧Limit(dB)
	5745 MHz	5745	-65.47	-	-
	10 times lower band edge of the occupied bandwidth	5559.621	-	-33.57	-87.65(Note1)
	20 times lower band edge of the occupied bandwidth	5383.081	1	-33.26	-87.65
3	50 times lower band edge of the occupied bandwidth	4853.461	<u> </u>	-33.29	-87.65
	10 times upper band edge of the occupied bandwidth	5930.355	-	-33.24	-87.65
	20 times upper band edge of the occupied bandwidth	6106.895	<u>ب</u>	-33.57	-87.65
	50 times upper band edge of the occupied bandwidth	6636.515	<u> -                                   </u>	-32.67	-87.65

### Note1:

The limit :

-60 dBm + k

The correction factor, k, is as follows:

 $k = -20 \log f - 10 \log BW$ 

k = -27.65

Where:

- f is the frequency in GHz;

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### Report No.: STR221031005005E

## 802.11n20

## 5825 MHz

Flow= 5816.161MHz; Fhigh= 5833.815MHz, occupied bandwidth=17.654MHz

Receiver category	Frequency offset	Test Frequency (MHz)	Measurement Vause(dB) (Generator A)	Measurement Vause(dB) (Generator B)	≧Limit(dB)
	5825 MHz	5825	-65.47	-	-
	10 times lower band edge of the occupied bandwidth	5639.621	-	-33.26	-87.77(Note1)
	20 times lower band edge of the occupied bandwidth	5463.081	A -	-33.75	-87.77
3	50 times lower band edge of the occupied bandwidth	4933.461	1 1 1	-33.11	-87.77
	10 times upper band edge of the occupied bandwidth	6010.355	-	-32.69	-87.77
	20 times upper band edge of the occupied bandwidth	6186.895	* *	-33.67	-87.77
	50 times upper band edge of the occupied bandwidth	6716.515	<u> </u>	-33.59	-87.77

### Note1:

The limit :

-60 dBm + k

The correction factor, k, is as follows:

 $k = -20 \log f - 10 \log BW$ 

k = -27.77

Where:

- f is the frequency in GHz;

## NTEK 北测

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## Report No.: STR221031005005E

### 802.11n40

5755 MHz

### Flow= 5736.858MHz; Fhigh= 5773.062MHz, occupied bandwidth=36.204MHz

Receiver category	Frequency offset	Test Frequency (MHz)	Measurement Vause(dB) (Generator A)	Measurement Vause(dB) (Generator B)	$\geq$ Limit(dB)
	5755 MHz	5755	-65.47	-	イン
	10 times lower band edge of the occupied bandwidth	5374.818	J.	-31.59	-90.79(Note1)
	20 times lower band edge of the occupied bandwidth	5012.778	<u> </u>	-31.78	-90.79
3	50 times lower band edge of the occupied bandwidth	3926.658	-	-31.21	-90.79
	10 times upper band edge of the occupied bandwidth	6135.102	-	-31.23	-90.79
	20 times upper band edge of the occupied bandwidth	6497.142	<b>卒 - </b>	-33.21	-90.79
50 times up	50 times upper band edge of the occupied bandwidth	7583.262	-	-33.56	-90.79

### Note1:

The limit :

-60 dBm + k

The correction factor, k, is as follows:

k = -20log f -10logBW

k = -30.79

Where:

- f is the frequency in GHz;

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### Report No.: STR221031005005E

## 802.11n40

### 5795 MHz

Flow= 5776.85MHz; Fhigh= 5813.142MHz, occupied bandwidth=36.292MHz

Receiver category	Frequency offset	Test Frequency (MHz)	Measurement Vause(dB) (Generator A)	Measurement Vause(dB) (Generator B)	≧Limit(dB)
	5795 MHz	5795	-65.47	-	-
	10 times lower band edge of the occupied bandwidth	5413.93	-	-31.57	-90.86(Note1)
	20 times lower band edge of the occupied bandwidth	5051.01	1	-32.36	-90.86
3	50 times lower band edge of the occupied bandwidth	3962.25	<u> </u>	-32.61	-90.86
	10 times upper band edge of the occupied bandwidth	6176.062	-	-34.57	-90.86
	20 times upper band edge of the occupied bandwidth	6538.982	<u>ب</u>	-33.26	-90.86
	50 times upper band edge of the occupied bandwidth	7627.742	<u> </u>	-33.26	-90.86

### Note1:

The limit :

-60 dBm + k

The correction factor, k, is as follows:

 $k = -20 \log f - 10 \log BW$ 

k = -30.86

Where:

- f is the frequency in GHz;

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## Report No.: STR221031005005E

## 802.11ac80

5775 MHz

Receiver category	Frequency offset	Test Frequency (MHz)	Measurement Vause(dB) (Generator A)	Measurement Vause(dB) (Generator B)	≧Limit(dB)
	5775 MHz	5775	-65.47	-	大 -
	10 times lower band edge of the occupied bandwidth	4981.004	-	-31.26	-94.02(Note1)
	20 times lower band edge of the occupied bandwidth	4224.924	<u>_</u>	-31.68	-94.02
3	50 times lower band edge of the occupied bandwidth	1956.684	1	-32.36	-94.02
	10 times upper band edge of the occupied bandwidth	6568.772	-	-32.64	-94.02
	20 times upper band edge of the occupied bandwidth	7324.852	\$ · \$	-33.26	-94.02
	50 times upper band edge of the occupied bandwidth	9593.092	-	-32.57	-94.02

Note1:

The limit : -60 dBm + k

The correction factor, k, is as follows:

 $k = -20\log f - 10\log BW$ 

k = -34.02

Where:

- f is the frequency in GHz;

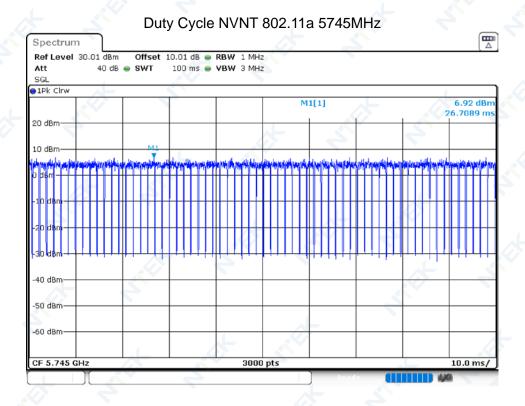
Report No.: STR221031005005E

## **10. TEST RESULTS**

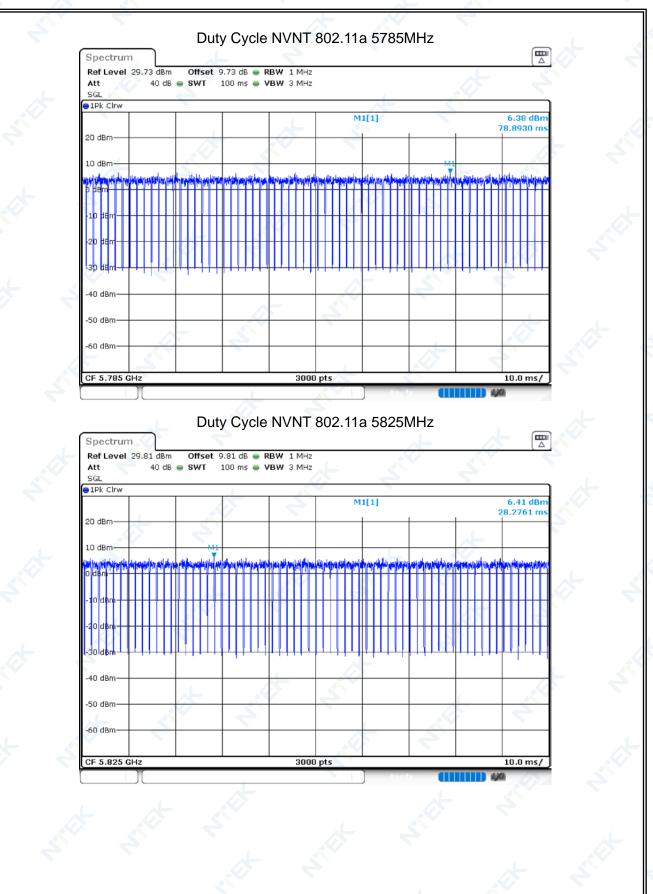
## 10.<u>1 DUTY CYCLE</u>

Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)
NVNT	802.11a	5745	91.9	0.37
NVNT	802.11a	5785	91.87	0.37
NVNT	802.11a	5825	91.57	0.38
NVNT	802.11ac20	5745	90.63	0.43
NVNT	802.11ac20	5785	90.77	0.42
NVNT	802.11ac20	5825	99.27	0.03
<b>NVNT</b>	802.11ac40	5755	79.97	0.97
NVNT	802.11ac40	5795	78.93	1.03
NVNT	802.11ac80 🧷	5775	65.1	1.86
NVNT	802.11n(HT20)	5745	89.2	0.5
NVNT	802.11n(HT20)	5785	90.53	0.43
	802.11n(HT20)	5825	90.47	0.44
NVNT	802.11n(HT40)	5755	<u> </u>	0.9
NVNT	802.11n(HT40)	5795	80.87	0.92

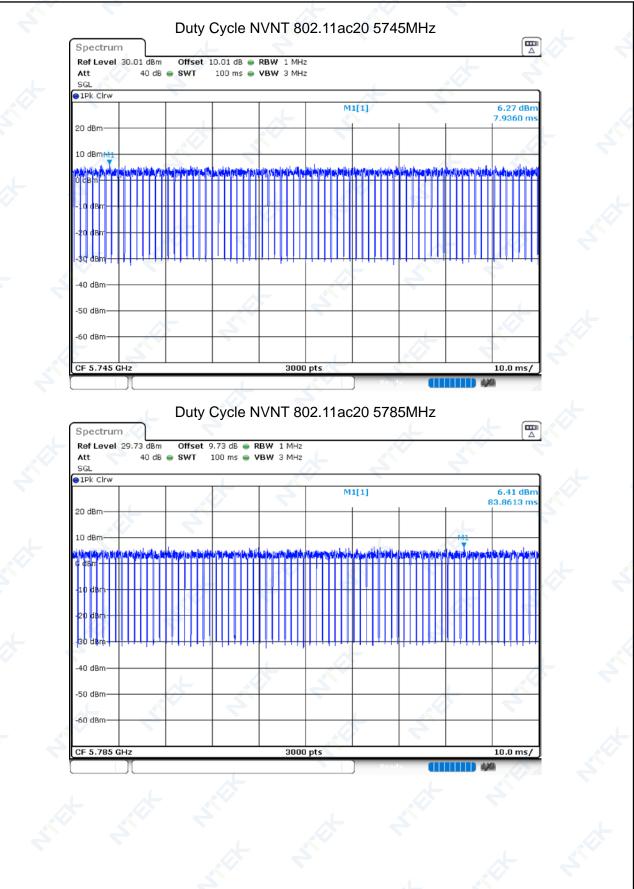
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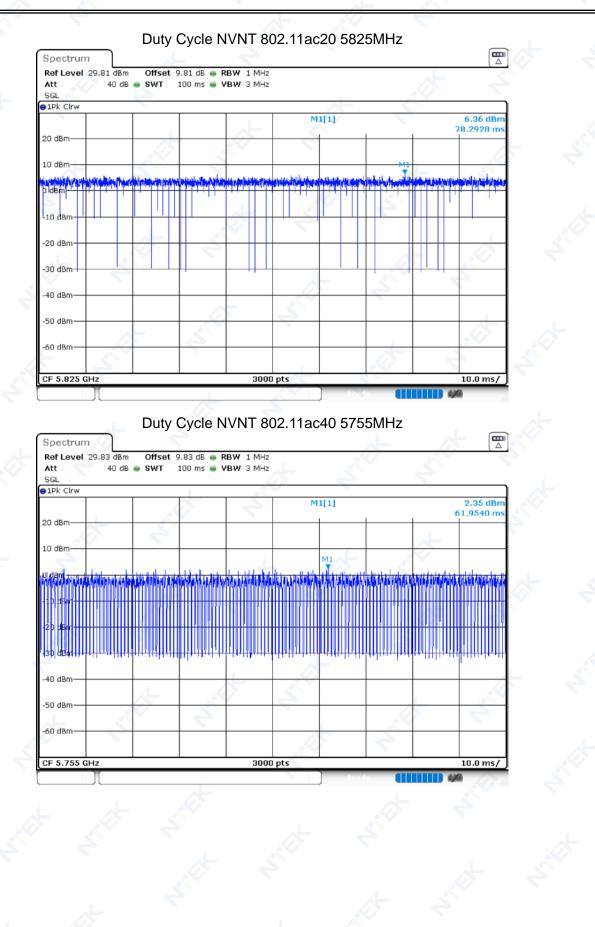
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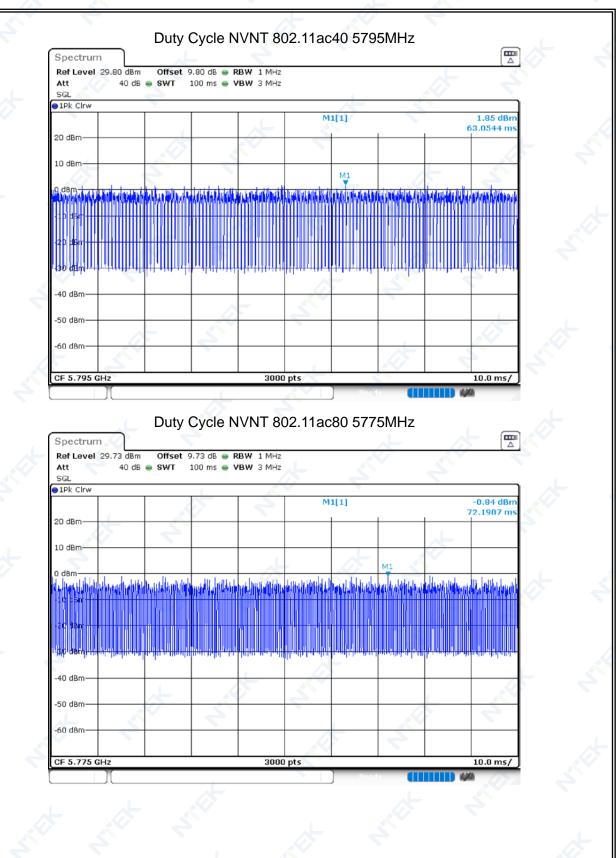
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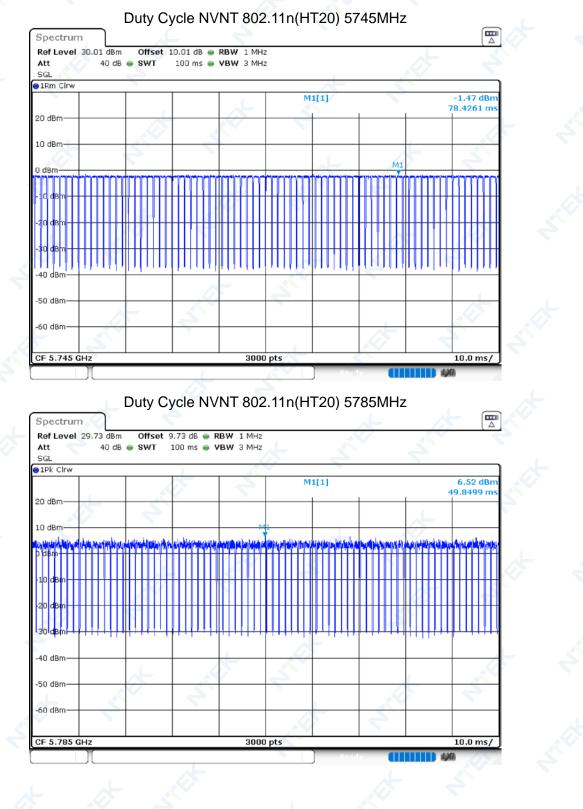


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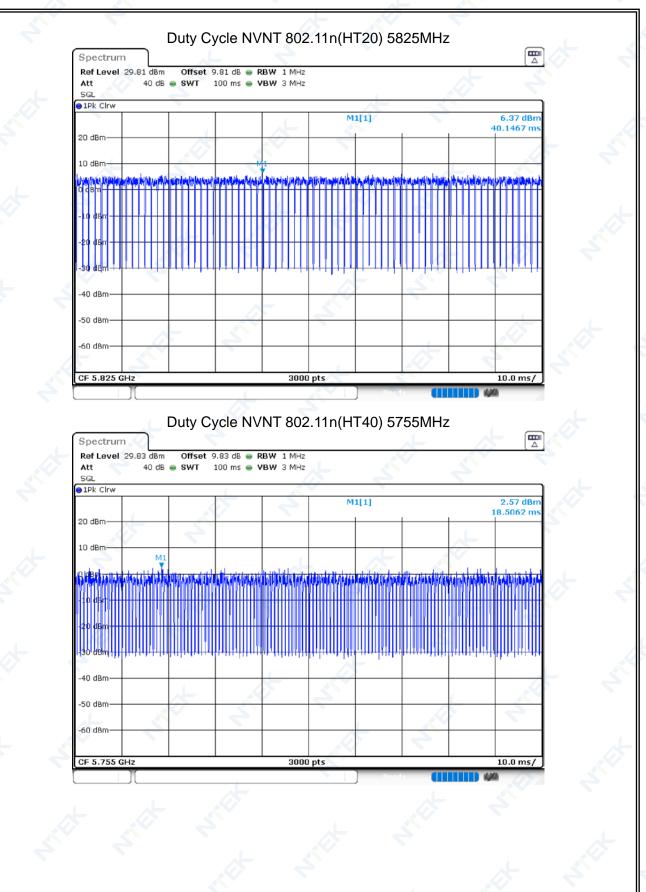
## Page 47 of 75

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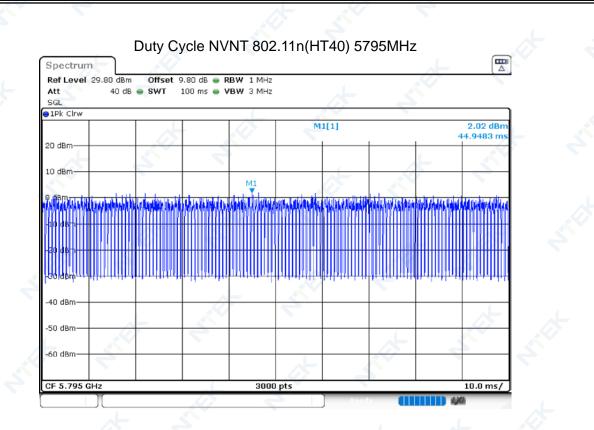


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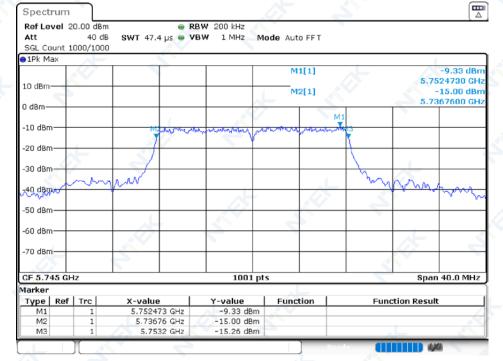
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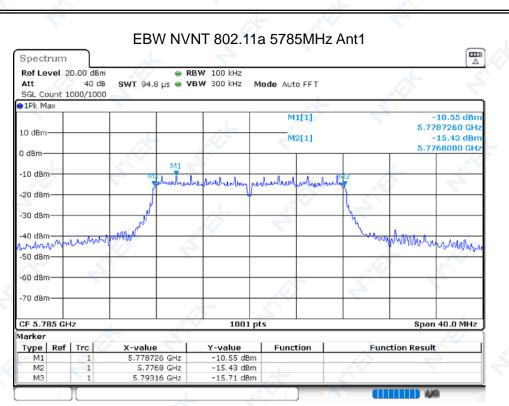
10.2 -6DB EN	ISSION BANDWID	/TH				
Condition	Mode	Frequency	Antenna	-6 dB	Limit -6 dB	Verdict
		(MHz)		Bandwidth	Bandwidth	
				(MHz)	(MHz)	
NVNT	802.11a	5745	Ant 1	16.44	0.5	Pass
NVNT	802.11a	5785	Ant 1	16.36	0.5	Pass
NVNT	802.11a	5825	Ant 1	16.36	0.5	Pass
NVNT	802.11ac20	5745	Ant 1	17.32	0.5	Pass
NVNT	802.11ac20	5785	Ant 1	17.28	0.5	Pass
NVNT	802.11ac20	5825	Ant 1	17.12	0.5	Pass
NVNT	802.11ac40	5755	Ant 1	36 🔿	0.5	Pass
<b>NVNT</b>	802.11ac40	5795	Ant 1	36.24	0.5	Pass
NVNT	802.11ac80	5775	Ant 1	75.2	0.5	Pass
NVNT	802.11n(HT20)	5745	Ant 1	17.16	0.5	Pass
NVNT	802.11n(HT20)	5785	Ant 1	17.44	0.5	Pass
NVNT	802.11n(HT20)	5825	Ant 1 🧹	17.12	0.5	Pass
NVNT	802.11n(HT40)	5755 🏑	Ant 1	36.16	0.5	Pass
NVNT	802.11n(HT40)	5795	Ant 1	36.24	0.5	Pass





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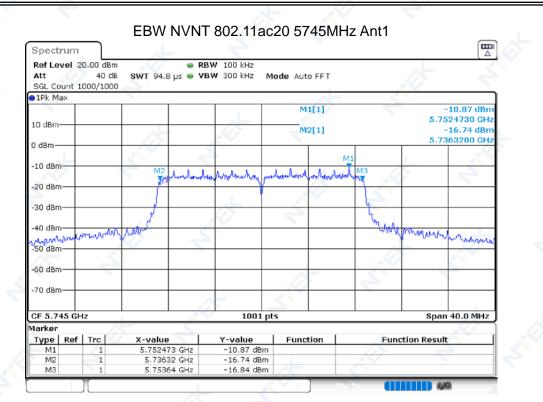
### Report No.: STR221031005005E

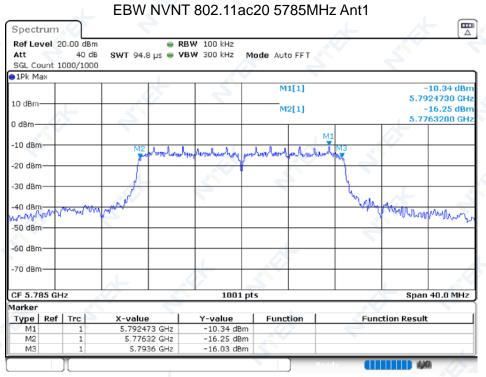


### EBW NVNT 802.11a 5825MHz Ant1

Att		0.00 dBm 40 dB	SWT 94.0		3W 100 kHz BW 300 kHz M	ode Auto A	FFT		5	
SGL Co 1Pk Ma		.000/1000	)							
JIPK M			1			M1[	11			10.24 dBm
						mit	-1			24730 GHz
10 dBm·		1				M2[	11			15.67 dBm
							-1			68000 GHz
0 dBm—		<u> </u>								
10.10							M1			
10 dBm			M	Seed at	infruentinenting no	مر المعطامينات	Actual	13		
20 dBm					month and her	of Charase Char	- policity of April of			
20 UBII	'									
30 dBm				V				1		
SO UDII	'		Le Contra					No.		
40 dBm	$\rightarrow$		An Anor		· ·			Janen		
Annak	wh	nmmag	VI and a						monun	murhour
50 dBm	-									
-60 dBm	$\rightarrow$									
70 dBm	-+		-	<u> </u>						
CF 5.83	25 GF	lz			1001 pt	ts			Span	40.0 MHz
larker										
Type	Ref	Trc	X-value		Y-value	Functio	n I	Eun	ction Result	
M1		1	5.8324		-10.24 dBm					
M2		1		68 GHz	-15.67 dBm					
MЗ		1	5.833	16 GHz	-15.89 dBm					

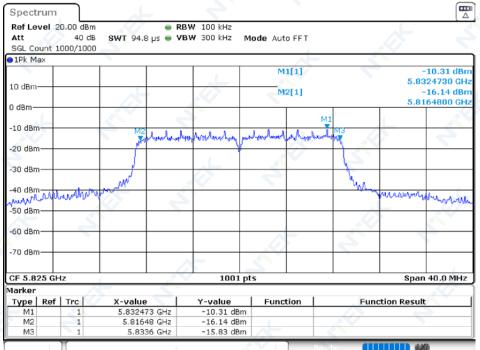
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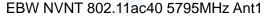
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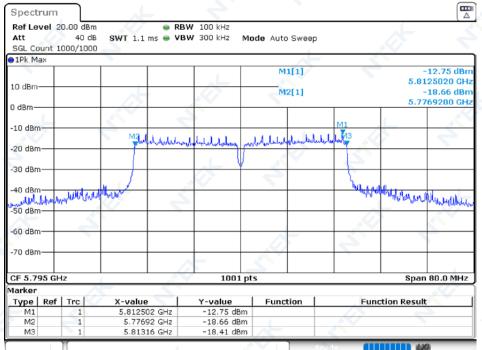


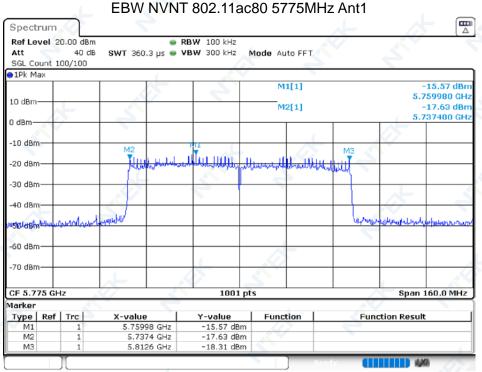




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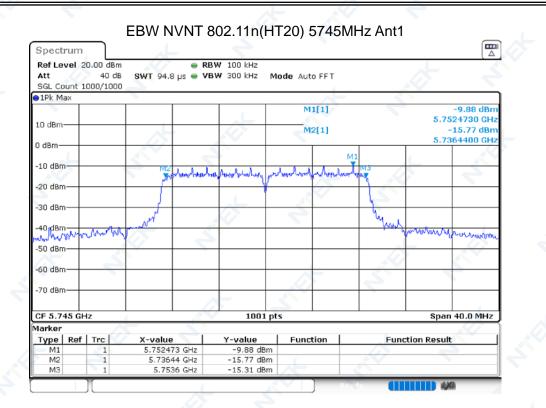






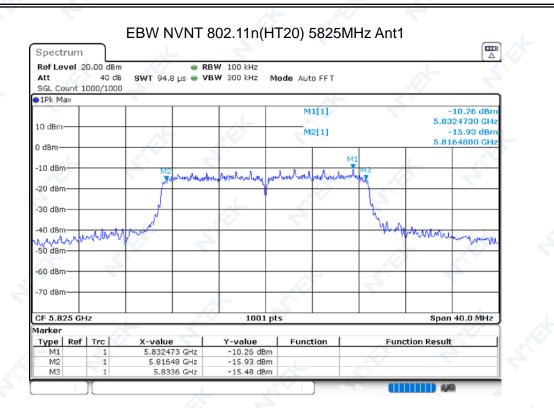
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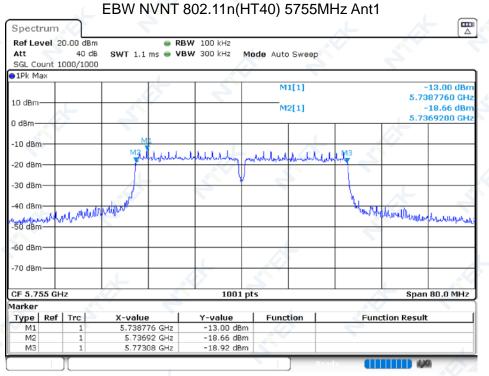
### Report No.: STR221031005005E



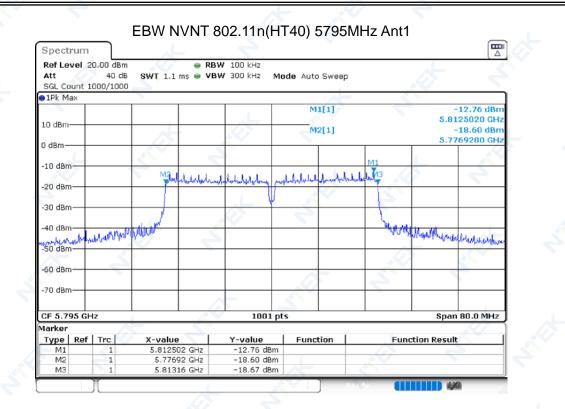
### EBW NVNT 802.11n(HT20) 5785MHz Ant1 Spectrum RBW 100 kHz Ref Level 20.00 dBm SWT 94.8 µs 👄 VBW 300 kHz Att 40 dB Mode Auto FFT SGL Count 1000/1000 ●1Pk Max M1[1] -10.47 dBn 5.7924730 GHz 10 dBm M2[1] -15.96 dBm 5.7762000 GHz 0 dBn M -10 dBm or how how how dan 7 -20 dBr -30 dBm 40 dBm apple when the when -50 dBm -60 dBm -70 dBm 1001 pts CF 5.785 GHz Span 40.0 MHz Marker Туре -value Y-value Function Function Result Trc 5.792473 GHz 5.7762 GHz -10.47 dBm -15.96 dBm M1 M2 MЭ 5.79364 GHz -16.40 dBm

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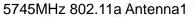


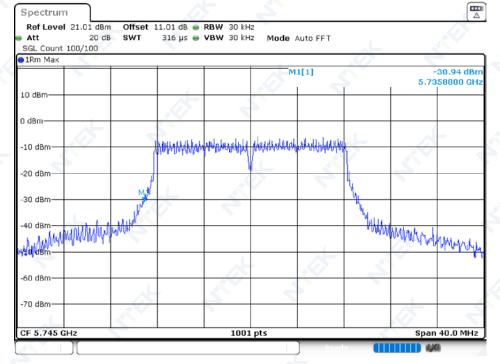
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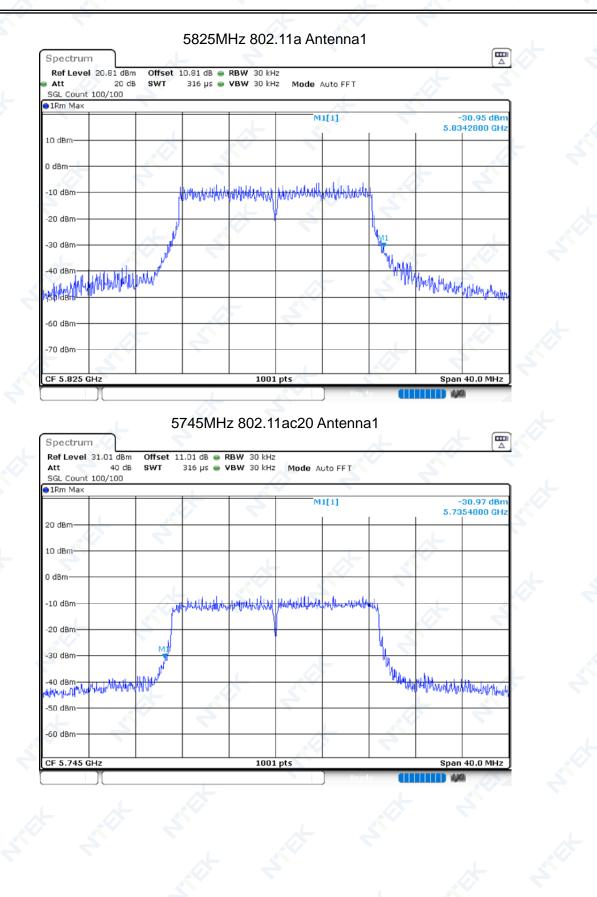
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10.3 FREQUE	ENCY RANGE					
Condition	Mode	Frequency (MHz)	Antenna	Frequency Range (MHz)	Limit (MHz)	Verdict
NVNT	802.11a	5745	Ant 1	5735.88	>=5725	Pass
NVNT	802.11a	5825	Ant 1	5834.28	<=5875	Pass
NVNT	802.11ac20	5745	Ant 1	5735.48	>=5725	Pass
NVNT	802.11ac20	5825	Ant 1	5834.72	<=5875	Pass
NVNT	802.11ac40	5755	Ant 1	5736.28	>=5725	Pass
NVNT	802.11ac40	5795	Ant 1	5813.66	<=5875	Pass
NVNT	802.11ac80	5775	Ant 1	5813.4	<=5875	Pass
NVNT	802.11n(HT20)	5745	🗕 Ant 1 🍼	5735.44	>=5725	Pass
<b>NVNT</b>	802.11n(HT20)	5825	Ant 1	5834.48	<=5875	Pass
NVNT	802.11n(HT40)	5755	Ant 1	5736.34	>=5725	Pass
NVNT	802.11n(HT40)	5795	Ant 1	5813.84	<=5875	Pass
1						

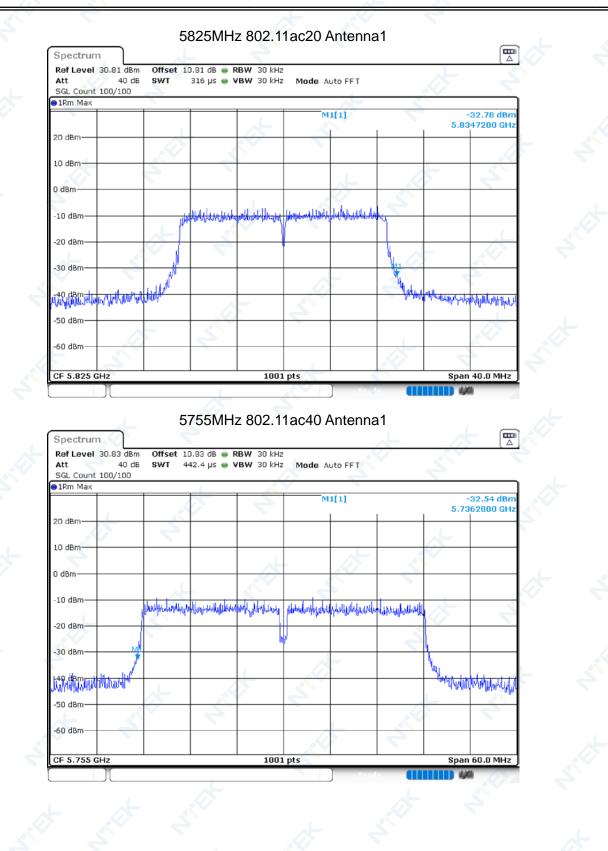




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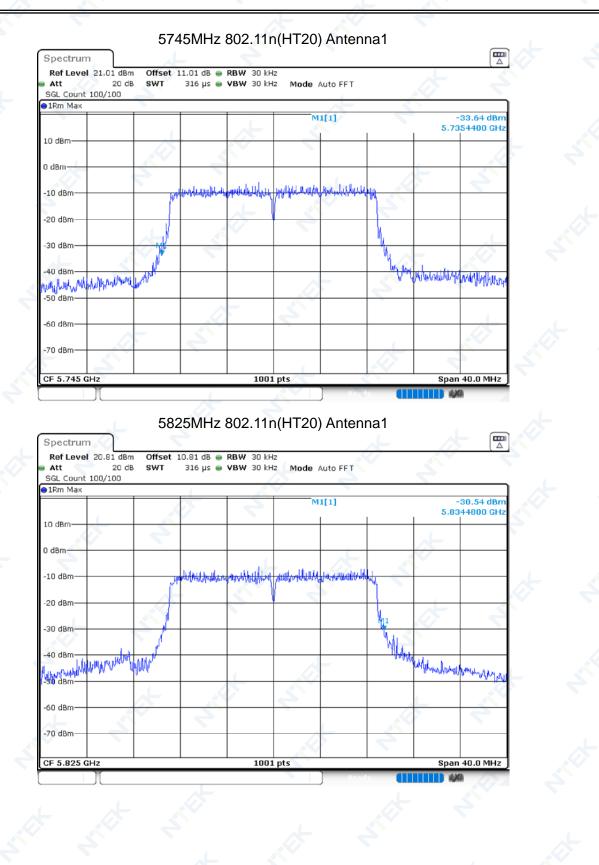
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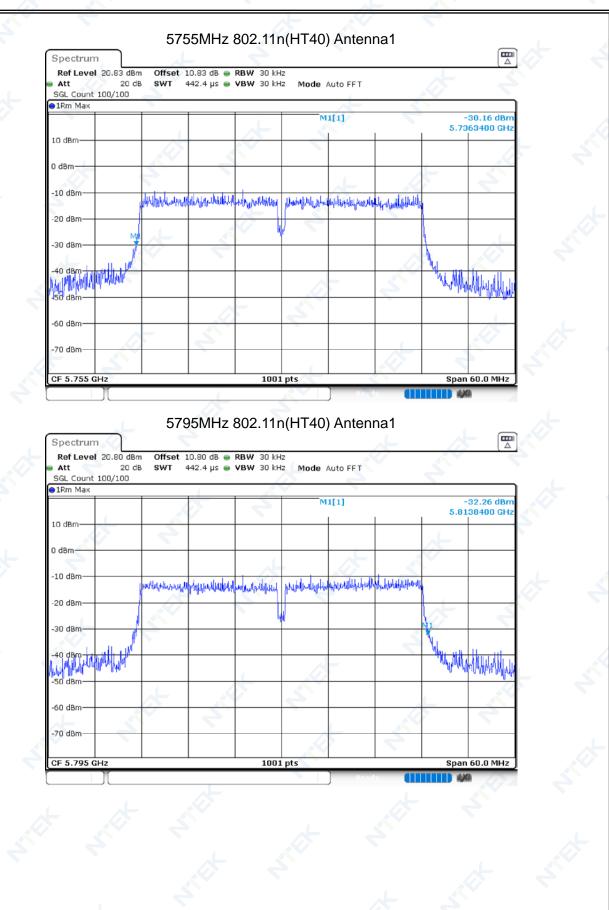
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SGL Count 100/	40 dB SWT		RBW 30 kHz VBW 30 kHz	Mode Auto FFT		<i>(</i>	
1Rm Max	_	_		M1[1]			32.01 dBm
		4					36600 GHz
20 dBm					_		
10 dBm						4	
TO UBIN							
0 dBm							
-10 dBm	J. Hubperton	haddhaadaad	Hoghlyshallitein .	entertal and the states	himmentaleuterth		
-20 dBm		. P	1. Nolines and	here a stand of the first stand			
						-	
-30 dBm						91 1	
and the state	N					Wull .	
ha <b>nna</b> nn <del>a an tha</del>	APR'					- Wind	addallar front all
-50 dBm							
-60 dBm							
			1 1	4			
CF 5.795 GHz		5775MI	1001 Hz 802.11	ac80 Antenr	na1	Span	60.0 MHz
Spectrum Ref Level 30.7 Att	40 dB SWT	t 10.73 dB 🖷	Hz 802.11	Re Re	na1	Span	60.0 MHz
Spectrum Ref Level 30.7 Att SGL Count 100/	40 dB SWT	t 10.73 dB 🖷	Hz 802.11	ac80 Antenr	na1	Span	
Spectrum Ref Level 30.7 Att	40 dB SWT	t 10.73 dB 🖷	Hz 802.11	ac80 Antenr	na1		33.58 dBm
Spectrum Ref Level 30.7: Att SGL Count 100/ 91Rm Max	40 dB SWT	t 10.73 dB 🖷	Hz 802.11	ac80 Antenr	na1		
Spectrum Ref Level 30.7 Att SGL Count 100/	40 dB SWT	t 10.73 dB 🖷	Hz 802.11	ac80 Antenr	na1		33.58 dBm
Spectrum Ref Level 30.7: Att SGL Count 100/ 91Rm Max	40 dB SWT	t 10.73 dB 🖷	Hz 802.11	ac80 Antenr	na1		33.58 dBm
Spectrum Ref Level 30.7: Att SGL Count 100/ 1Rm Max 20 dBm 10 dBm	40 dB SWT	t 10.73 dB 🖷	Hz 802.11	ac80 Antenr	na1		33.58 dBm
Spectrum Ref Level 30.7: Att SGL Count 100/ IRm Max 20 dBm	40 dB SWT	t 10.73 dB 🖷	Hz 802.11	ac80 Antenr	na1		33.58 dBm
Spectrum Ref Level 30.7: Att SGL Count 100/ 1Rm Max 20 dBm 10 dBm	40 dB SWT	t 10.73 dB 🖷	Hz 802.11	ac80 Antenr	na1		33.58 dBm
Spectrum Ref Level 30.7 Att SGL Count 100/ IRm Max 20 dBm 10 dBm -10 dBm	40 dB SWT	t 10.73 dB 884.9 µs	Hz 802.11	Mode Auto FFT		5.8	33.58 dBm
Spectrum Ref Level 30.7 Att SGL Count 100/ 1Rm Max 20 dBm 10 dBm 0 dBm	40 dB SWT	t 10.73 dB 884.9 µs	Hz 802.11	ac80 Antenr		5.8	33.58 dBm
Spectrum Ref Level 30.7 Att SGL Count 100/ 1Rm Max 20 dBm 10 dBm -10 dBm -20 dBm	40 dB SWT	t 10.73 dB 884.9 µs	Hz 802.11	Mode Auto FFT		5.8	33.58 dBm
Spectrum Ref Level 30.7 Att SGL Count 100/ IRm Max 20 dBm 10 dBm -10 dBm	40 dB SWT	t 10.73 dB 884.9 µs	Hz 802.11	Mode Auto FFT		5.8	33.58 dBm
Spectrum Ref Level 30.7 Att SGL Count 100/ IRm Max 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm	40 dB SWT 100	t 10.73 dB 884.9 µs	Hz 802.11	Mode Auto FFT		5.8	33.58 dBm 13400 GHz
Spectrum Ref Level 30.7 Att SGL Count 100/ IRm Max 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm	40 dB SWT 100	t 10.73 dB 884.9 µs	Hz 802.11	Mode Auto FFT		5.8	33.58 dBm 13400 GHz
Spectrum Ref Level 30.7 Att SGL Count 100/ IRm Max 20 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm	40 dB SWT 100	t 10.73 dB 884.9 µs	Hz 802.11	Mode Auto FFT		5.8	33.58 dBm
Spectrum Ref Level 30.7 Att SGL Count 100/ 9 IRm Max 20 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm	40 dB SWT 100	t 10.73 dB 884.9 µs	Hz 802.11	Mode Auto FFT		5.8	33.58 dBm 13400 GHz
Spectrum Ref Level 30.7 Att SGL Count 100/ IRm Max 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm	40 dB SWT 100	t 10.73 dB 884.9 µs	Hz 802.11	Mode Auto FFT		5.8	33.58 dBm 13400 GHz

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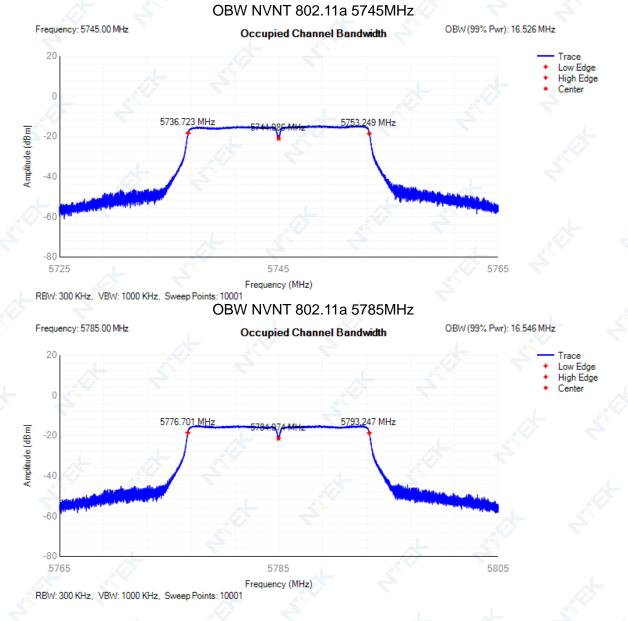


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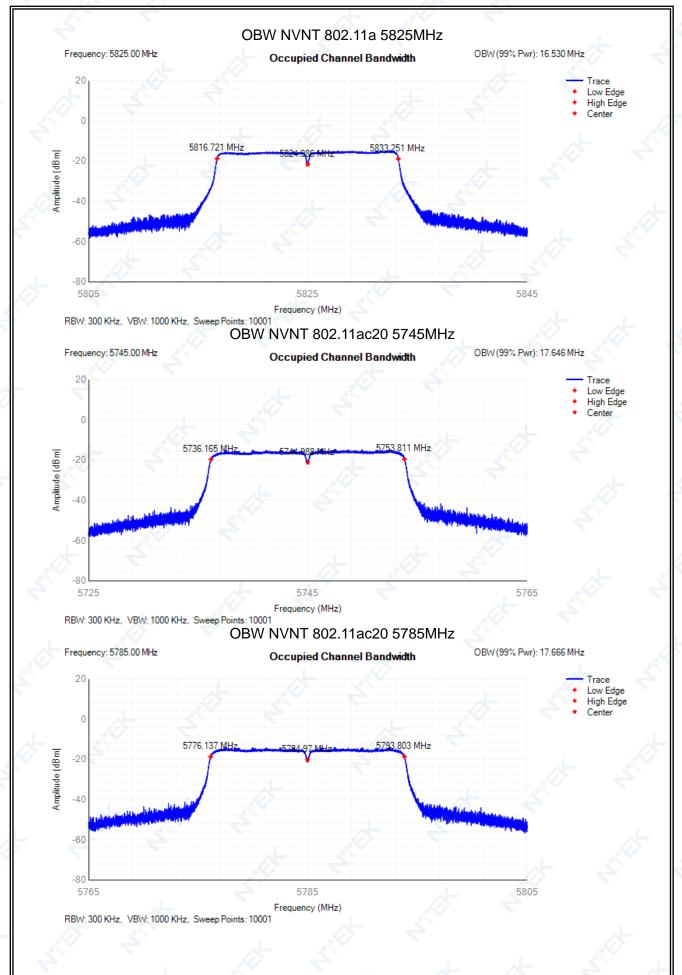


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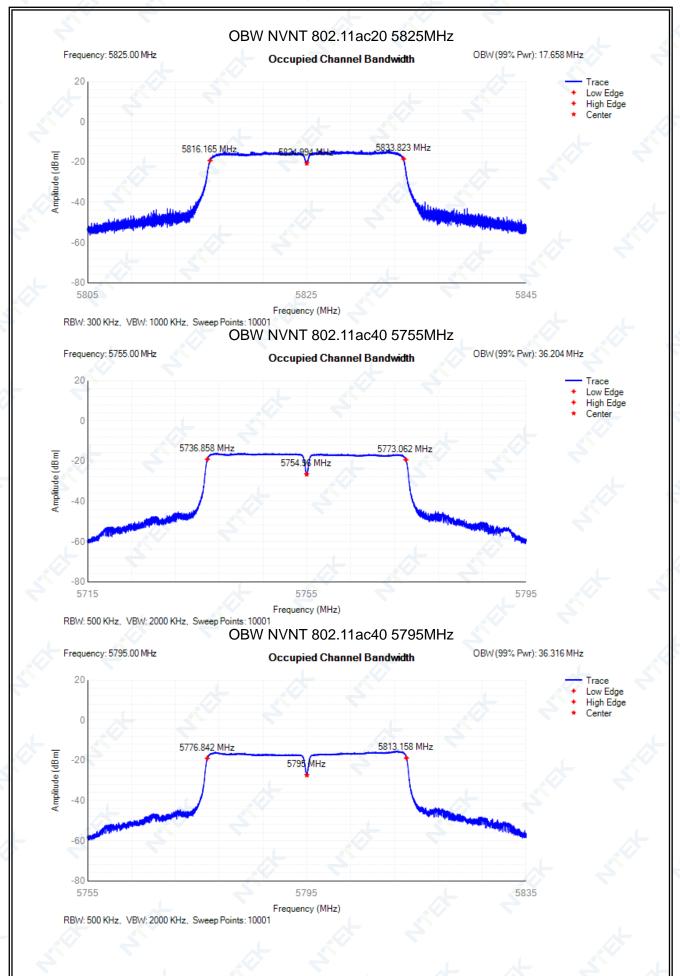
10. <u>4 OCCUPI</u>	IED CHANNEL BAN	<b>IDWIDTH</b>		2			
Condition	Mode	Frequency	Center	OBW	Lower	Upper	Verdict
1		(MHz)	Frequency	(MHz)	Limit	Limit(MHz)	
			(MHz)		(MHz)	<b>C</b>	
NVNT	802.11a	5745	5744.986	16.526	16	20	Pass
NVNT	802.11a	5785	5784.974	16.546	16	20	Pass
NVNT	802.11a	5825	5824.986	16.53	16	20	Pass
NVNT	802.11ac20	5745	5744.988	17.646	16	20	Pass
NVNT	802.11ac20	5785	5784.97	17.666	16	20	Pass
NVNT	802.11ac20	5825	5824.994	17.658	16	20	Pass
NVNT	802.11ac40	5755	5754.96	36.204	32	40	Pass
<b>NVNT</b>	802.11ac40	5795	5795	36.316	32	40	Pass
NVNT	802.11ac80	5775	5774.888	75.608	64	80	Pass
NVNT	802.11n(HT20)	5745	5744.988	17.654	16	20	Pass
NVNT	802.11n(HT20)	5785	5784.972	17.67	16	20	Pass
NVNT	802.11n(HT20)	5825	5824.988	17.654	16	20	Pass
NVNT	802.11n(HT40)	5755 🖉	5754.96	36.204	32	40	Pass
NVNT	802.11n(HT40)	5795	5794.996	36.292	32	40	Pass



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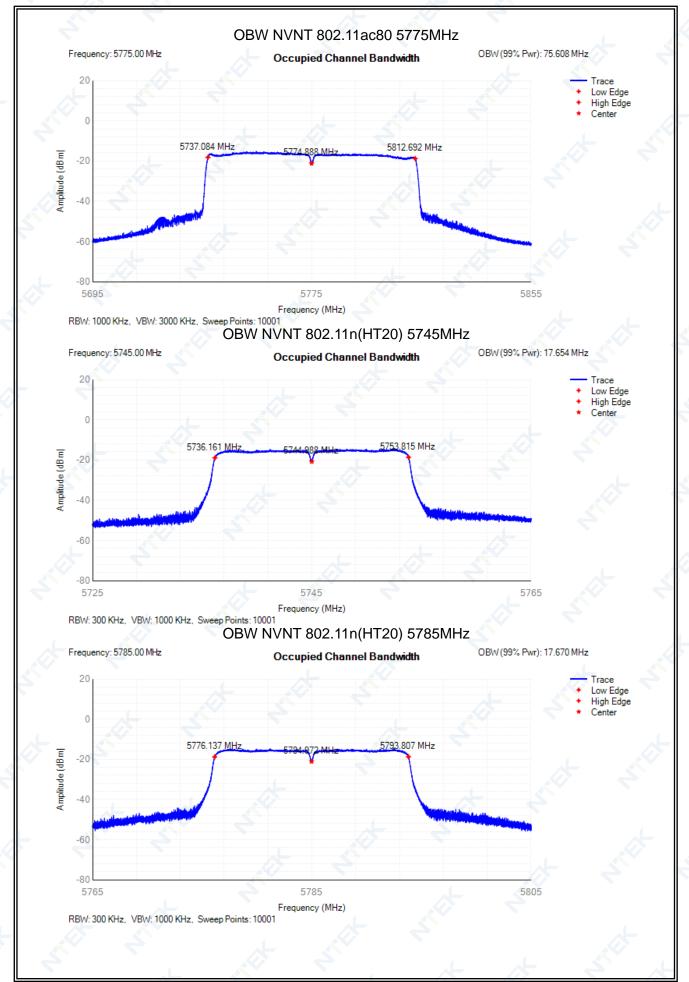


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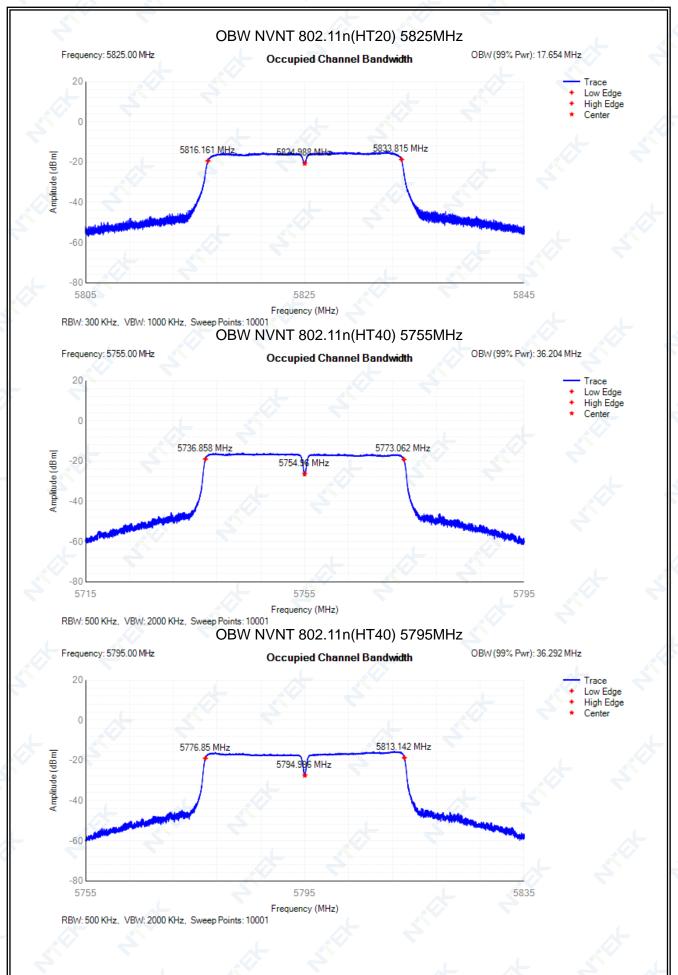


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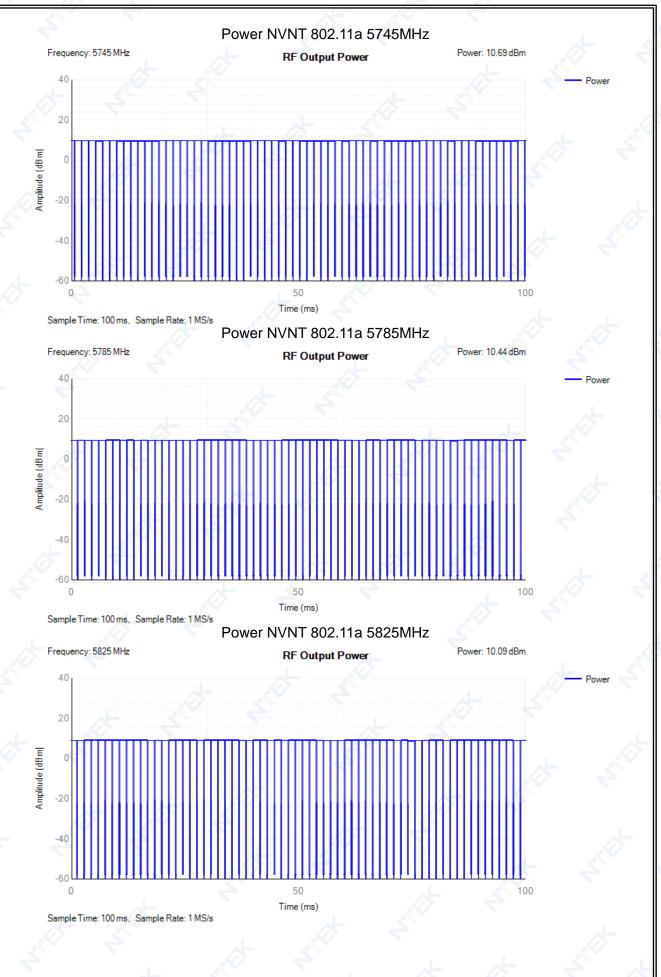
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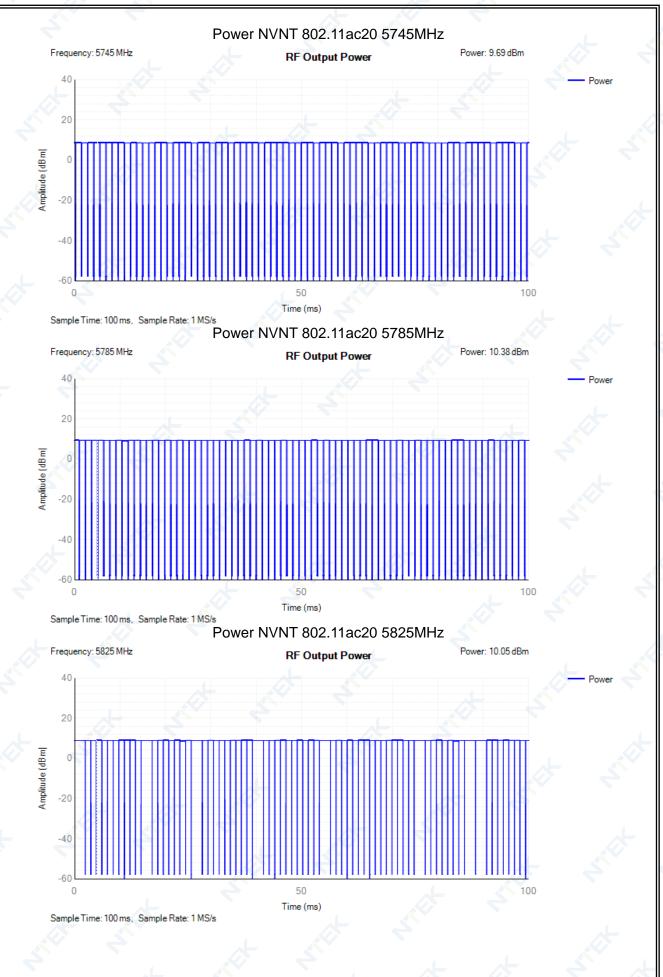
on dition	Mada	Frequency	Max Burst RMS Power	Burst	Max EIRP	Limit	Vordia
Condition	Mode	(MHz)	(dBm)	Number	(dBm)	(dBm)	Verdic
NVNT	802.11a	5745	9.69	66	10.69	13.98	Pass
NVNT	802.11a	5785	9.44	65	10.44	13.98	Pass
NVNT	802.11a	5825	9.09	65	10.09	13.98	Pass
NVNT	802.11ac20	5745	8.69	76	9.69	13.98	Pass
NVNT	802.11ac20	5785	9.38	75	10.38	13.98	Pass
NVNT	802.11ac20	5825	9.05	74	10.05	13.98	Pass
NVNT	802.11ac40	5755	9.48	134	10.48	13.98	Pass
NVNT	802.11ac40	5795	9.41	134	10.41	13.98	Pass
NVNT	802.11ac80	5775	9.24	223	10.24	13.98	Pass
NVNT	802.11n(HT20)	5745	9.72	75	10.72	13.98	Pass
NVNT	802.11n(HT20)	5785	9.36	76	10.36	13.98	Pass
NVNT	802.11n(HT20)	5825	8.99	76	9.99	13.98	Pass
NVNT	802.11n(HT40)	5755	9.49	135	10.49	16.98	Pass
NVNT	802.11n(HT40)	5795	9.37	135	10.37	13.98	Pass
HVLT	802.11a	5745	9.26	43	10.26	13.98	Pass
HVLT	802.11a	5785	9.29	43	10.29 🦯	13.98	Pass
HVLT	802.11a	5825	9.26	- 43	10.26	13.98	Pass
HVLT	802.11ac20	5745	9.21	45	10.21	13.98	Pass
HVLT	802.11ac20	5785	8.17	44	9.17	13.98	Pass
HVLT	802.11ac20	5725	8.20	44	9.2	13.98	Pass
HVLT	802.11ac40	5755	8.17	61	9.17	13.98	Pass
HVLT	802.11ac40	5795	8.12	62	9.12 📈	13.98	Pass
HVLT	802.11ac80	5775	8.09	76	9.09	13.98	Pass
HVLT	802.11n(HT20)	5745	8.04	44	9.04	13.98	Pass
HVLT	802.11n(HT20)	5785	8.01	44	9.01	13.98	Pass
HVLT	802.11n(HT20)	5825	7.96	45	8.96	13.98	Pass
HVLT	802.11n(HT40)	5755	7.93	62	8.93	13.98	Pass
HVLT	802.11n(HT40)	5795	7.90	62	8.9	13.98	Pass
LVHT	802.11a	5745	7.79	43	8.79	13.98	Pass
LVHT	802.11a	5785	7.82	43	8.82	13.98	Pass
LVHT	802.11a	5825	7.79	43	8.79	13.98	Pass
LVHT	802.11ac20	5745	7.74	45	8.74	13.98	Pass
LVHT	802.11ac20	5785	8.17	44	9.17	13.98	Pass
LVHT	802.11ac20	5825	8.20		9.2	13.98	Pass
LVHT	802.11ac40	5755	8.17	61	9.17	13.98	Pass
LVHT	802.11ac40	5795	8.12	62	9.12	13.98	Pass
LVHT	802.11ac80	5775	8.09	76	9.09	13.98	Pass
LVHT	802.11n(HT20)	5745	8.04	44	9.04	13.98	Pass
LVHT	802.11n(HT20)	5785	8.01	-44	9.01	13.98	Pass
LVHT	802.11n(HT20)	5825	7.96	45	8.96	13.98	Pass
LVHT	802.11n(HT40)	5755	7.93	62	8.93	13.98	Pass
LVHT	802.11n(HT40)	5795	7.90	62	8.9	13.98	Pass
HVHT	802.11a	5745	7.79	43	8.79	13.98	Pass
HVHT	802.11a	5785	7.82	43	8.82	13.98	Pass
HVHT	802.11a	5825	7.79	43	8.79	13.98	Pass
HVHT	802.11ac20	5745	7.74	45	8.74	13.98	Pass
HVHT	802.11ac20	5785	8.17	43	9.17	13.98	Pass
HVHT	802.11ac20	5825	8.20		9.2	13.98	Pass
HVHT	802.11ac40	5755	8.17	61	9.2	13.98	Pass
HVHT	802.11ac40	5795	8.12	62	9.17	13.98	Pass
HVHT	802.11ac40	5775	8.09	76	9.09	13.98	Pass
HVHT	802.11n(HT20)	5745	8.04	44	9.09	13.98	Pass
HVHT	802.11n(HT20)	5785	8.01	44	9.04	13.98	Pass
HVHT	802.11n(HT20)	5825	7.96	44	8.96	13.98	Pass
HVHT	802.11n(HT20) 802.11n(HT40)	5755	7.96	45 62	8.93	13.98	Pass
HVHT	802.11n(HT40)	5795	7.90	62	8.9	13.98	Pass
LVLT	802.111 802.11a	5745	7.90	43	8.79	13.98	Pass
LVLI	802.11a 802.11a	5785	7.79	43	8.82	13.98	Pass
LVHT	802.11a 802.11a	5785	7.82	43	8.82	13.98	Pass
LVHT	802.11a 802.11ac20	5745	7.79	43	8.79	13.98	
							Pass
	802.11ac20	5785	8.17	44	9.17 9.2	13.98	Pass
LVHT	802.11ac20	5825	8.20	04		13.98	Pass
	802.11ac40	5755	8.17	61	9.17	13.98	Pass
LVHT	802.11ac40	5795	8.12	62	9.12	13.98	Pass
LVHT	802.11ac80	5775	8.09	76	9.09	13.98	Pass
LVHT	802.11n(HT20)	5745	8.04	44	9.04	13.98	Pass
LVHT	802.11n(HT20)	5785	8.01	44	9.01	13.98	Pass
LVHT	802.11n(HT20)	5825	7.96	45	8.96	13.98	Pass
LVHT	802.11n(HT40)	5755	7.93	62	8.93	13.98	Pass
LVHT	802.11n(HT40)	5795	7.92	62	8.92	13.98	Pass

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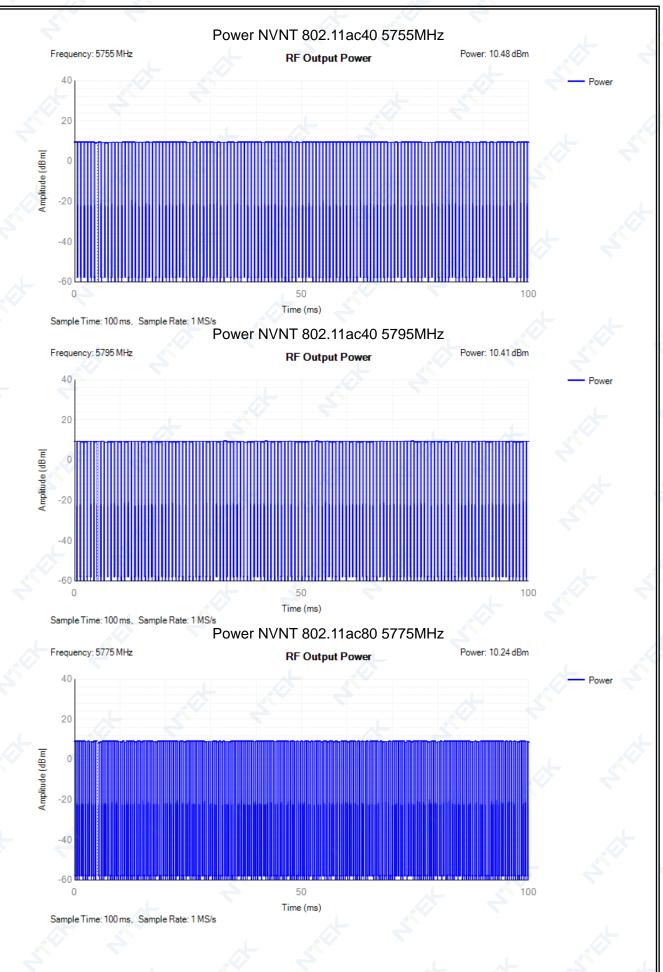


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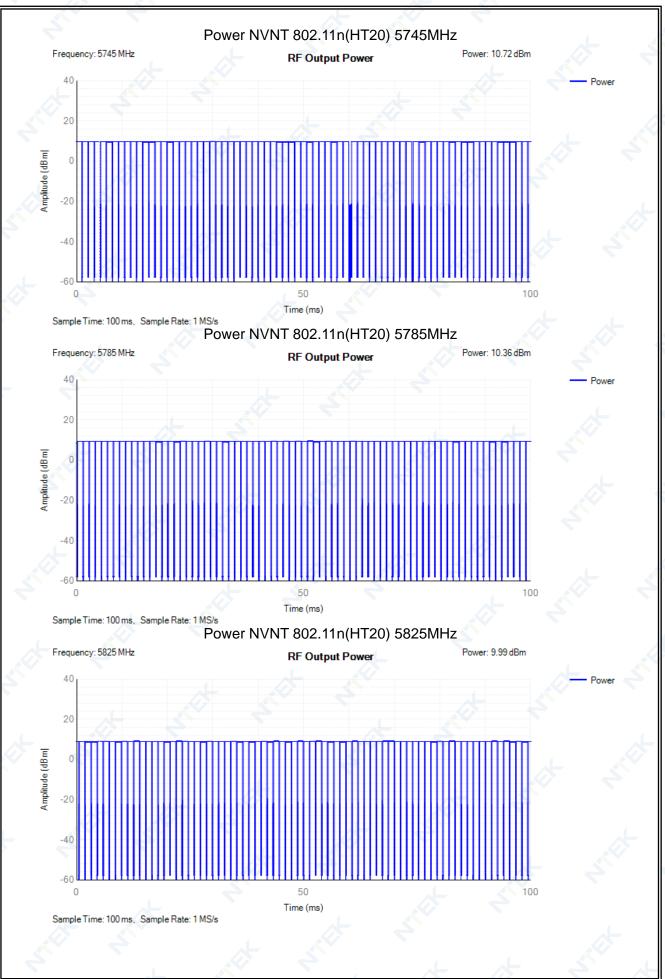
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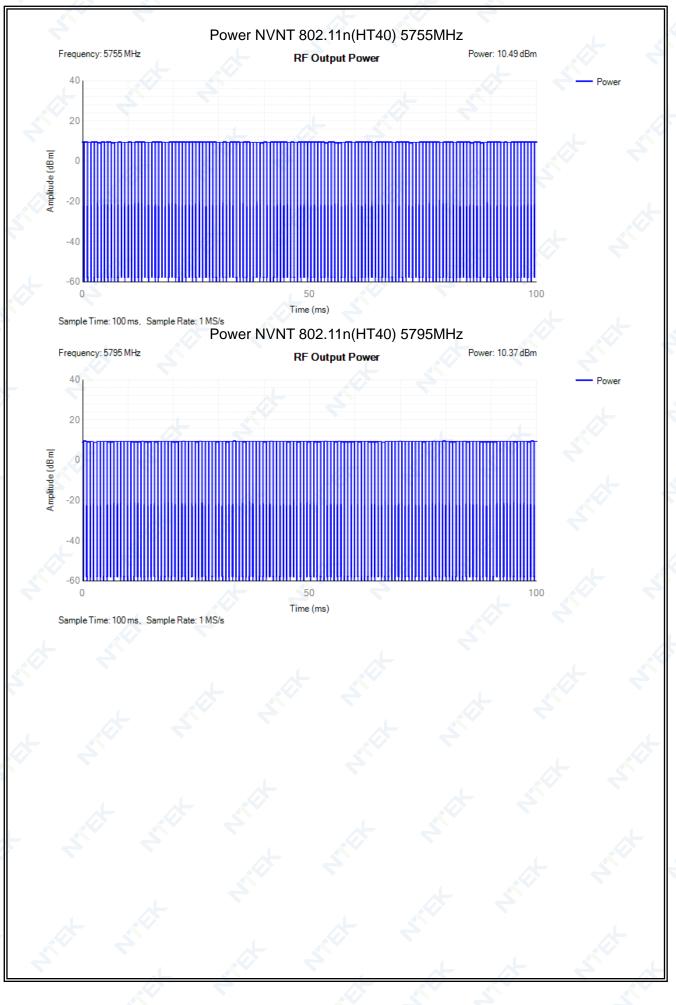
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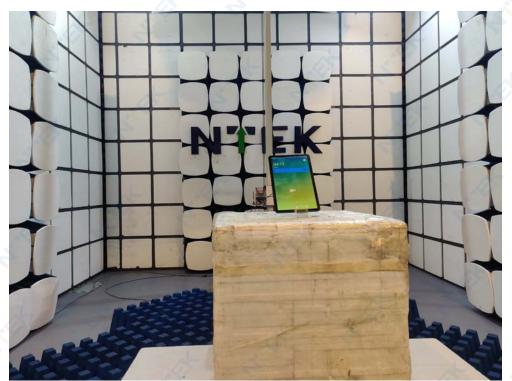
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## **11. EUT TEST PHOTO**

## SPURIOUS EMISSIONS MEASUREMENT PHOTOS





END OF REPORT