RADIO TEST REPORT ETSI EN 300 328 V2.2.2 (2019-07)

Product :	Mobile Phone	
Trade Mark :	Blackview, OSCAL	
Model Name :	BV5300 Pro	
amily Model:	S70 Pro	
Report No. :	STR230317002002E	

Prepared for

DOKE COMMUNICATION (HK) LIMITED

RM 1902 EASEY COMM BLDG 253-261 HENNESSY ROAD WANCHAI HK CHINA

Prepared by

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TEST RESULT CERTIFICATION

Applicant's name: DOKE CO	MMUNICATION (HK) LIMITED			
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WANCHA	WANCHAI HK CHINA			
Ianufacturer's Name: Shenzhen DOKE Electronic Co., Ltd				
Address	ling3, 7th Industrial Zone, Yulv Community, Yutang Road, ng District, Shenzhen, China.			
Product description				
Product name: Mobile Ph	one			
Trademark: Blackview	, OSCAL			
Model Name BV5300 P	ro			
Family Model S70 Pro				
Standards ETSI EN 3	300 328 V2.2.2 (2019-07)			
	sted by Shenzhen NTEK, and the test results show that the nce with the 2014/53/EU RED Directive Art.3.2 the tested sample identified in the report.			
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the revision of the document.				
Test Sample Number	T230317002R002			
Date of Test				
Date (s) of performance of tests	Mar 17, 2023 ~ Mar 29, 2023			
Date of Issue	Mar 29, 2023			
Test Result	Pass A			
₹				
Testing Engineer :	Mukri Lee			
A S	(Mukzi Lee)			
Authorized Signatory:	Aless of an			
at straight	(Alex Li)			

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#### **1**. GENERAL INFORMATION

#### 1.1 GENERAL DESCRIPTION OF EUT

Equipment	Mobile Phone		
Trade Mark	Blackview, OSCAL		
Model Name.	BV5300 Pro		
Family Model	S70 Pro	K S	
Model Difference	trademark and battery I		
	The EUT is Mobile Pho	ne	
	Operation Frequency:	2402~2480 MHz	
	Modulation Type:	GFSK	
	Adaptive/non-adaptive	Adaptive equipment	
Product Description	Receiver categories	3	
	Number Of Channel	Please see Note 2.	
	Antenna Designation:	PIFA Antenna	
	Antenna Gain(Peak)	0.2 dBi	
Channel List	Refer to below         Model: QZ-01000EA00         Input: 100-240V~50/60Hz 0.3A         Output: 5.0V2.0A (10.0W)         DC 3.85V, 6580mAh, 25.333Wh         DC 3.85V from battery or DC 5V from adapter		
Adapter			
Battery			
Rating			
I/O Ports	Refer to users manual       TE105_MAIN_PCB_V1.1		
Hardware Version			
Software Version BV5300 Pro_EEA_T S70 Pro_EEA_TE10			

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#### Note:

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

2.

Channel	Frequency (MHz)
00	2402
	2404
·····	×
38	2478
39	2480

#### 1.2 INFORMATION ABOUT THE EUT

a) The type of modulation used by the equipment:

FHSS

other forms of modulation

#### b) In case of FHSS modulation:

• In case of non-Adaptive Frequency Hopping equipment: The number of Hopping Frequencies:

- In case of Adaptive Frequency Hopping Equipment:
  - The maximum number of Hopping Frequencies:

The minimum number of Hopping Frequencies:

• The (average) Dwell Time:

#### c) Adaptive / non-adaptive equipment:

- non-adaptive Equipment
- adaptive Equipment without the possibility to switch to a non-adaptive mode
- adaptive Equipment which can also operate in a non-adaptive mode

#### d) In case of adaptive equipment:

- The maximum Channel Occupancy Time implemented by the equipment: ./. ms
- The equipment has implemented an LBT based DAA mechanism
  - In case of equipment using modulation different from FHSS:
  - The equipment is Frame Based equipment
  - The equipment is Load Based equipment
  - The equipment can switch dynamically between Frame Based and Load Based equipment
  - The CCA time implemented by the equipment: / µs
  - ] The equipment has implemented a non-LBT based DAA mechanism
  - The equipment can operate in more than one adaptive mode

#### e) In case of non-adaptive Equipment:

The maximum RF Output Power (e.i.r.p.):

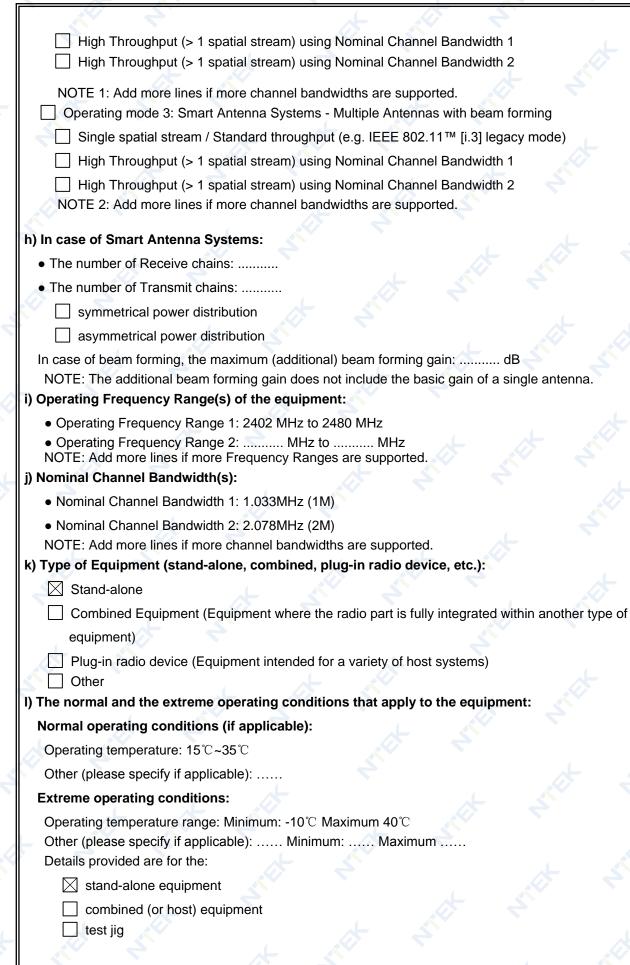
The maximum (corresponding) Duty Cycle:

Equipment with dynamic behaviour, that behaviour is described here. (e.g. the different combinations of duty cycle and corresponding power levels to be declared):

#### f) The worst case operational mode for each of the following tests:

- RF Output Power
   GFSK
- Power Spectral Density
- GFSK
- Duty cycle, Tx-Sequence, Tx-gap N/A
- Accumulated Transmit time, Frequency Occupation & Hopping Sequence (only for FHSS equipment)
- N/A
- Hopping Frequency Separation (only for FHSS equipment)
   N/A
- Medium Utilization
- N/A
- Adaptivity
  - N/A
- Receiver Blocking
- GFSK
- Nominal Channel Bandwidth
   GFSK
- Transmitter unwanted emissions in the OOB domain
- GFSK
- Transmitter unwanted emissions in the spurious domain GFSK
- Receiver spurious emissions
   GFSK
- g) The different transmit operating modes (tick all that apply):
  - Operating mode 1: Single Antenna Equipment
    - Equipment with only one antenna
    - Equipment with two diversity antennas but only one antenna active at any moment in time
    - Smart Antenna Systems with two or more antennas, but operating in a (legacy) mode where only one antenna is used (e.g. IEEE 802.11[™] [i.3] legacy mode in smart antenna systems)
    - Operating mode 2: Smart Antenna Systems Multiple Antennas without beam forming
    - Single spatial stream / Standard throughput / (e.g. IEEE 802.11™ [i.3] legacy mode)

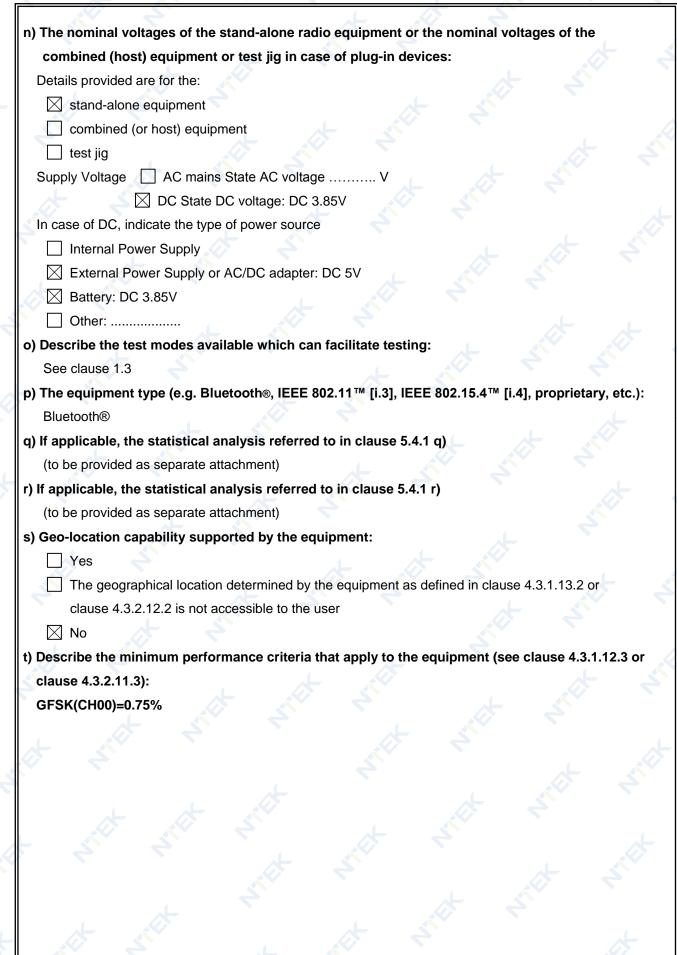
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			as and one or more enterne
The intended comb	bination(s) of the radio eq	uipment power settin	igs and one of more antenna
assemblies and the	eir corresponding e.i.r.p.	levels:	
Antenna Type: PIF	A Antenna		
Integral Antenn	a (information to be provide	ed in case of conducted	I measurements)
Antenna Gain:	: 0.2 dBi		
If applicable, add	ditional beamforming gain (	excluding basic antenna	a gain): dB
Temporary	y RF connector provided		
No tempor	rary RF connector provided		
Dedicated Ante	ennas (equipment with ante	nna connector)	
Single pow	ver level with corresponding	g antenna(s)	
Multiple pc	ower settings and correspo	nding antenna(s)	
Number of dif	fferent Power Levels:		
Power Level	1: dBm		
Power Level	2: dBm		
Power Level	3: dBm		
NOTE 1: Add	d more lines in case the equ	uipment has more powe	er levels.
NOTE 2 [.] The	ese power levels are condu	cted power levels (at ar	ntenna connector)
			es, their corresponding gains
G) and the resulting	e.i.r.p. levels also taking in		
G) and the resulting Power Level	e.i.r.p. levels also taking in I 1: dBm	to account the beamfor	ming gain (Y) if applicable
G) and the resulting <b>Power Level</b> Number of ar	e.i.r.p. levels also taking in I 1: dBm htenna assemblies provided	to account the beamfor d for this power level:	ming gain (Y) if applicable
G) and the resulting <b>Power Level</b> Number of ar Assembly #	e.i.r.p. levels also taking in 11: dBm htenna assemblies provided Gain (dBi)	to account the beamfor d for this power level: e.i.r.p. (dBm)	ming gain (Y) if applicable
G) and the resulting <b>Power Level</b> Number of an <b>Assembly #</b> 1M	e.i.r.p. levels also taking in 11: dBm Intenna assemblies provided Gain (dBi) 0.2	to account the beamfor d for this power level: e.i.r.p. (dBm) -5.55	ming gain (Y) if applicable
G) and the resulting <b>Power Level</b> Number of ar Assembly #	e.i.r.p. levels also taking in 11: dBm htenna assemblies provided Gain (dBi)	to account the beamfor d for this power level: e.i.r.p. (dBm)	ming gain (Y) if applicable
G) and the resulting Power Level Number of ar Assembly # 1M 2M	e.i.r.p. levels also taking in 11:	to account the beamfor d for this power level: e.i.r.p. (dBm) -5.55 -5.85	ming gain (Y) if applicable Part number or model name
G) and the resulting Power Level Number of ar Assembly # 1M 2M	e.i.r.p. levels also taking in 11:	to account the beamfor d for this power level: e.i.r.p. (dBm) -5.55 -5.85	ming gain (Y) if applicable
G) and the resulting Power Level Number of ar Assembly # 1M 2M NOTE 3: Add	e.i.r.p. levels also taking in 11: dBm ntenna assemblies provided Gain (dBi) 0.2 0.2 d more rows in case more a	to account the beamfor d for this power level: e.i.r.p. (dBm) -5.55 -5.85	ming gain (Y) if applicable Part number or model name
G) and the resulting Power Level Number of ar Assembly # 1M 2M NOTE 3: Add Power Level	e.i.r.p. levels also taking in 11:	to account the beamfor d for this power level: e.i.r.p. (dBm) -5.55 -5.85	ming gain (Y) if applicable Part number or model name supported for this power level.
G) and the resulting Power Level Number of ar Assembly # 1M 2M NOTE 3: Add Power Level	e.i.r.p. levels also taking in 11: dBm htenna assemblies provided Gain (dBi) 0.2 0.2 d more rows in case more a 12: dBm	to account the beamfor d for this power level: e.i.r.p. (dBm) -5.55 -5.85	ming gain (Y) if applicable Part number or model name supported for this power level.
G) and the resulting Power Level Number of ar Assembly # 1M 2M NOTE 3: Add Power Level Number of ar	e.i.r.p. levels also taking in 11:	to account the beamfor <u>d for this power level:</u> <u>e.i.r.p. (dBm)</u> -5.55 -5.85 untenna assemblies are <u>d for this power level:</u>	ming gain (Y) if applicable Part number or model name supported for this power level.
G) and the resulting Power Level Number of ar Assembly # 1M 2M NOTE 3: Add Power Level Number of ar	e.i.r.p. levels also taking in 11:	to account the beamfor <u>d for this power level:</u> <u>e.i.r.p. (dBm)</u> -5.55 -5.85 untenna assemblies are <u>d for this power level:</u>	ming gain (Y) if applicable Part number or model name supported for this power level.
G) and the resulting Power Level Number of ar Assembly # 1M 2M NOTE 3: Add Power Level Number of ar Assembly # 1 2	e.i.r.p. levels also taking in 11:	to account the beamfor <u>d for this power level:</u> <u>e.i.r.p. (dBm)</u> -5.55 -5.85 untenna assemblies are <u>d for this power level:</u>	ming gain (Y) if applicable Part number or model name supported for this power level.
G) and the resulting Power Level Number of ar Assembly # 1M 2M NOTE 3: Add Power Level Number of ar Assembly # 1 2 3	e.i.r.p. levels also taking in ntenna assemblies provided Gain (dBi) 0.2 0.2 d more rows in case more a 1 2: dBm ntenna assemblies provided Gain (dBi)	to account the beamfor d for this power level: e.i.r.p. (dBm) -5.55 -5.85 antenna assemblies are d for this power level: e.i.r.p. (dBm)	ming gain (Y) if applicable Part number or model name supported for this power level.
G) and the resulting Power Level Number of ar Assembly # 1M 2M NOTE 3: Add Power Level Number of ar Assembly # 1 2 3 NOTE 4: Add	e.i.r.p. levels also taking in ntenna assemblies provided Gain (dBi) 0.2 0.2 d more rows in case more a 1 2: dBm ntenna assemblies provided Gain (dBi)	to account the beamfor d for this power level: e.i.r.p. (dBm) -5.55 -5.85 antenna assemblies are d for this power level: e.i.r.p. (dBm)	ming gain (Y) if applicable Part number or model name supported for this power level. Part number or model name Part number or model name
G) and the resulting Power Level Number of ar Assembly # 1M 2M NOTE 3: Add Power Level Number of ar Assembly # 1 2 3 NOTE 4: Add Power Level	e.i.r.p. levels also taking in ntenna assemblies provided Gain (dBi) 0.2 0.2 d more rows in case more a 1 2:	to account the beamfor d for this power level: e.i.r.p. (dBm) -5.55 -5.85 antenna assemblies are d for this power level: e.i.r.p. (dBm) antenna assemblies are	ming gain (Y) if applicable Part number or model name Supported for this power level. Part number or model name Part number or model name supported for this power level.
G) and the resulting Power Level Number of ar Assembly # 1M 2M NOTE 3: Add Power Level Number of ar Assembly # 1 2 3 NOTE 4: Add Power Level	e.i.r.p. levels also taking in ntenna assemblies provided Gain (dBi) 0.2 0.2 d more rows in case more a 12:	to account the beamfor d for this power level: e.i.r.p. (dBm) -5.55 -5.85 antenna assemblies are d for this power level: e.i.r.p. (dBm) antenna assemblies are	ming gain (Y) if applicable Part number or model name Supported for this power level. Part number or model name Part number or model name supported for this power level.
G) and the resulting Power Level Number of ar Assembly # 1M 2M NOTE 3: Add Power Level Number of ar Assembly # 1 2 3 NOTE 4: Add Power Level Number of ar	e.i.r.p. levels also taking in ntenna assemblies provided Gain (dBi) 0.2 0.2 0.2 d more rows in case more a 12:	to account the beamfor d for this power level: e.i.r.p. (dBm) -5.55 -5.85 antenna assemblies are d for this power level: e.i.r.p. (dBm) antenna assemblies are d for this power level:	ming gain (Y) if applicable Part number or model name supported for this power level. Part number or model name supported for this power level.
G) and the resulting Power Level Number of ar Assembly # 1M 2M NOTE 3: Add Power Level Number of ar Assembly # 1 2 3 NOTE 4: Add Power Level Number of ar Assembly # 1	e.i.r.p. levels also taking in ntenna assemblies provided Gain (dBi) 0.2 0.2 0.2 d more rows in case more a 12:	to account the beamfor d for this power level: e.i.r.p. (dBm) -5.55 -5.85 antenna assemblies are d for this power level: e.i.r.p. (dBm) antenna assemblies are d for this power level:	ming gain (Y) if applicable Part number or model name supported for this power level. Part number or model name supported for this power level.
G) and the resulting Power Level Number of ar Assembly # 1M 2M NOTE 3: Add Power Level Number of ar Assembly # 1 2 3 NOTE 4: Add Power Level Number of ar	e.i.r.p. levels also taking in ntenna assemblies provided Gain (dBi) 0.2 0.2 0.2 d more rows in case more a 12:	to account the beamfor d for this power level: e.i.r.p. (dBm) -5.55 -5.85 antenna assemblies are d for this power level: e.i.r.p. (dBm) antenna assemblies are d for this power level:	ming gain (Y) if applicable Part number or model name supported for this power level. Part number or model name supported for this power level.

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#### 1.3 TEST CONDITIONS AND CHANNEL

Normal Test Conditions		Extreme Test Conditions		
Temperature	15℃ - 35℃	40°C ~ -10°C Note: (1)		
Relative Humidity	20% - 75%	N/A		
Supply Voltage	DC 3.85V	/		

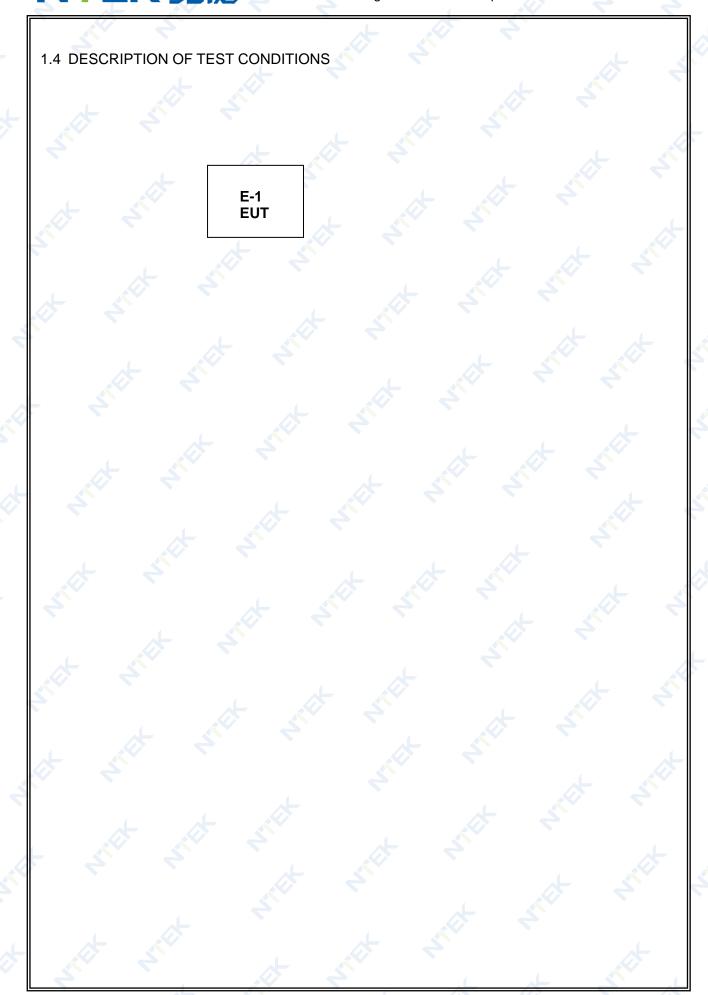
	Test Channel EUT Channel		Test Frequency (MHz)	
	Lowest	CH00	2402	
	Middle CH19		2440	
5	Highest	СН39	2480	

#### Note:

(1) The HT 40  $^\circ\!C$  and LT -10  $^\circ\!C$  was declarated by manufacturer, The EUT couldn't be operate normally with higher or lower temperature.

(2) The measurements are performed at the highest, middle, lowest available channels.

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#### 1.5 DESCRIPTION OF SUPPORT UNITS

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

- 2					
	Item	Equipment	Model/Type No.	Series No.	Note
	E-1	Mobile Phone	BV5300 Pro	N/A	EUT
		4	4		5
S				7	
		* *			
	F				2. 4
				2	
Ī			5	~	

Item	Туре	Shielded Type	Ferrite Core	Length	Note
	<u></u>	F S			-
*					· ~ ~
				4 4	
			1		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.

#### 1.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

EQUIPMENT TYPE	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
EMI Test Receiver	R&S	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
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	2022.06.16	2023.06.15	1 year
Wideband Radio Communication Tester Specifications	R&S	CMW500	148500	2022.06.16	2023.06.15	1 year
temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A

#### Note:

We will use the temporary antenna connector (soldered on the PCB board) When conducted test And this temporary antenna connector is listed within the instrument list

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#### 2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

	ETSI EN 300 328 V2.2.2 (2019-07)		
Clause	ause Test Item		
2	TRANSMITTER PARAMETERS		
4.3.2.2	RF Output Power	Pass	
4.3.2.3	Power Spectral Density	Pass	
4.3.2.4	Duty cycle, Tx-Sequence, Tx-gap	Not Applicable (See Note 1/2)	
4.3.2.5	Medium Utilization (MU) factor	Not Applicable (See Note 1/2)	
4.3.2.6	Adaptivity	Not Applicable (See Note 1)	
4.3.2.7	Occupied Channel Bandwidth	Pass	
4.3.2.8	Transmitter unwanted emission in the OOB domain	Pass	
4.3.2.9	Transmitter unwanted emissions in the spurious domain	Pass	
	RECEIVER PARAMETERS		
4.3.2.10	Receiver Spurious Emissions	Pass	
4.3.2.11	Receiver Blocking	Pass	

Note:

- 1. These requirements do not apply for equipment with a maximum declared RF output power of less than 10 dBm EIRP or for equipment when operating in a mode where the RF output power is less than 10 dBm EIRP.
- 2. These requirements apply to non-adaptive frequency hopping equipment or to adaptive frequency hopping equipment operating in a non-adaptive mode
- 3. 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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#### 2.1 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

#### 2.2 MEASUREMENT UNCERTAINTY

For the test methods, according to ETSI EN 300 328 standard, the measurement uncertainty figures shall be calculated in accordance with ETR 100 028-1[4] and shall correspond to an expansion factor(coverage factor) k=1.96 or k=2 (which provide confidence levels of respectively **95** % and **95.45** % in the case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian)).

Measurement uncertainty				
No.	Item	Uncertainty (P=95)		
1	Occupied Channel Bandwidth	± 4.7%		
2	RF output Power,conducted	± 0.9dB		
3	Power Spectral Density, conducted	± 2.6dB		
4	Unwanted emissions, conducted	± 2.2dB		
5	All emissions, radiated	± 5.3dB		
6	Temperature	± 0.5°C		
7	Humidity	± 2.0%		
8	Time	± 1.0%		

#### 3. TEST PROCEDURES AND RESUTLS

3.1 EQUIVALENT ISOTROPIC RADIATED POWER

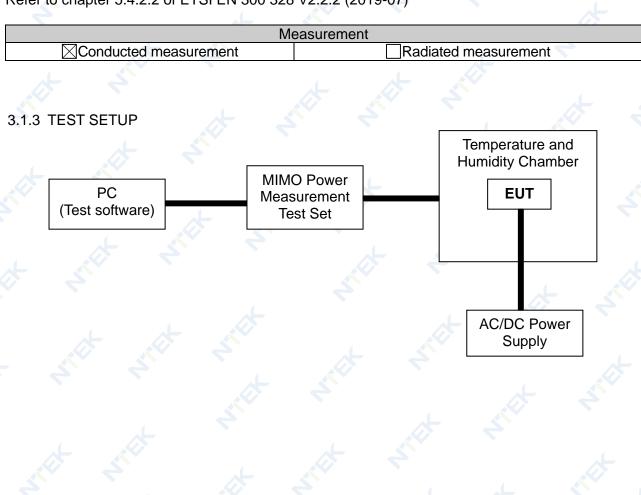
#### 3.1.1 LIMITS OF EQUIVALENT ISOTROPIC RADIATED POWER

Refer to chapter 4.3.2.2.3 of ETSI EN 300 328 V2.2.2 (2019-07)

RF OUTPUT	POWER
Condition	Limit
Non-adaptive wide band modulations systems	Equal to or less than the value declared by the supplier. This declared value shall be equal to or less than 20 dBm.
Adaptive wide band modulations systems	≤20dBm

#### 3.1.2 TEST PROCEDURE

#### Refer to chapter 5.4.2.2 of ETSI EN 300 328 V2.2.2 (2019-07)



#### 3.1.4 TEST RESULTS

EUT :	Mobile Phone	Model Name :	BV5300 Pro
Temperature :	<b>20</b> °C	Relative Humidity:	55 %
Pressure :	1012 hPa	Test Voltage :	DC 3.85V
Test Mode :	TX Low channel / Middle Channel / High Channel		

Test data reference attachment

#### 3.2. PEAK POWER DENSITY

#### 3.2.1 LIMITS OF POWER SPECTRAL DENSITY

Refer to chapter 4.3.2.3.3 of ETSI EN 300 328 V2.2.2 (2019-07)

RF OUTPUT POWER			
Condition		Limit	7
	For equipment using wide band modulations other than FHSS	≤10 dBm/MHz	لد

#### 3.2.2 TEST PROCEDURE

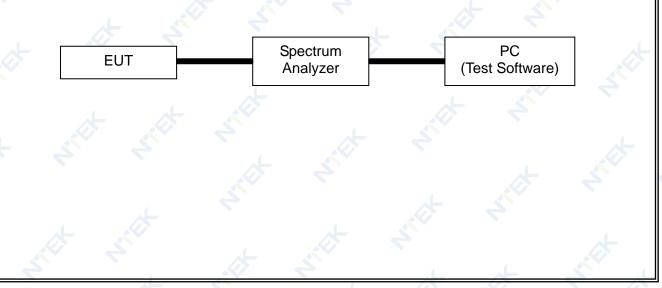
#### Refer to chapter 5.4.3.2 of ETSI EN 300 328 V2.2.2 (2019-07)

Measurement				
Conducted measurement	Radiated measurement			

#### The setting of the Spectrum Analyzer

Start Frequency	2400MHz
Stop Frequency	2483.5MHz
Detector 🔊	RMS
Sweep Point	> 8 350; for spectrum analysers not supporting this number of sweep points, the frequency band may be segmented
Sweep time:	<ul> <li>For non-continuous transmissions: 2 × Channel Occupancy Time</li> <li>× number of sweep points</li> <li>For continuous transmissions: 10 s; the sweep time may be</li> <li>increased further until a value where the sweep time has no</li> <li>further impact anymore on the RMS value of the signal.</li> </ul>
RBW / VBW	10KHz / 30KHz

#### 3.2.3 TEST SETUP



#### 3.2.4 TEST RESULTS

EUT :	Mobile Phone	Model Name :	BV5300 Pro
Temperature :	26°C	Relative Humidity:	60 %
Pressure :	1012 hPa	Test Voltage :	DC 3.85V
Test Mode :	TX-GFSK(CH00/CH19/CH39)		

Test data reference attachment

#### 3.3. OCCUPIED CHANNEL BANDWIDTH

#### 3.3.1 LIMITS OF OCCUPIED CHANNEL BANDWIDTH Refer to chapter 4.3.2.7.3 of ETSI EN 300 328 V2.2.2 (2019-07)

	OCCUPIED CHANNEL BANDWIDTH			
	Condition	Limit		
All types of equipment using wide band modulations other than FHSS		Shall fall completely within the band 2400 to 2483.5 MHz		
Additional	For non-adaptive using wide band modulations other than FHSS system and E.I.R.P >10 dBm	Less than 20 MHz		
requirement	For non-adaptive frequency hopping system and E.I.R.P >10 dBm	Less than 5 MHz		

#### 3.3.2 TEST PROCEDURE

#### Refer to chapter 5.4.7.2 of ETSI EN 300 328 V2.2.2 (2019-07)

Refer to chapter 5.4.7.2	2 01 L 1 31 L 1 300 320	(VZ.Z.Z (Z019-01)		
	M	easurement		
Conducted measurement		Radiated measurement		
The setting of the Spect	rum Analyzer			
Center Frequency	The centre frequence	The centre frequency of the channel under test		
Frequency Span	2 × Nominal Channel Bandwidth			
Detector	RMS			
RBW	~ 1 % of the span without going below 1 %			
VBW	3 × RBW			
Trace	Max hold			
Sweep time	1s			

#### 3.3.3 DEVIATION FROM TEST STANDARD

No deviation

#### 3.3.4 TEST SETUP



These measurements only were performed at normal test conditions. The measurement shall be performed only on the lowest and the highest frequency within the ststed frequency range. In case of conducted measurements the transmitter shall be connected to the measuring equipment via a suitable attenuator. Controlling software has been activated to set the EUT on specific status.

#### 3.3.5 TEST RESULTS

EUT :	Mobile Phone	Model Name :	BV5300 Pro
Temperature :	<b>26</b> °C	Relative Humidity :	60 %
Pressure :	1012 hPa	Test Voltage :	DC 3.85V
Test Mode :	TX-GFSK(CH00/CH19/CH39)		

Test data reference attachment

#### 3.4. TRANSMITTER UNWANTED EMISSIONS IN THE OUT-OF-BAND DOMAIN

3.4.1 LIMITS OF TRANSMITTER UNWANTED EMISSIONS IN THE OUT-OF-BAND DOMAIN Refer to chapter 4.3.2.8.3 of ETSI EN 300 328 V2.2.2 (2019-07)

TRANSMITTER UNWANTED EMISSIONS IN THE OUT-OF-BAND DOMAIN	
Condition	Limit
Under all test conditions	The transmitter unwanted emissions in the out-of-band domain but outside the allocated band, shall not exceed the values provided by the mask in below figure.

Out Of Band Domain (OOB)	Allocated Band	Out Of Band Domain (OOB)	Spurious Domain
A			
			><>

- A: -10 dBm/MHz e.i.r.p. B: -20 dBm/MHz e.i.r.p.
- C: Spurious Domain limits

BW = Occupied Channel Bandwidth in MHz or 1 MHz whichever is greater

3.4.2 TEST PROCEDURE

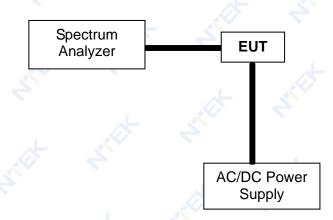
#### Refer to chapter 5.4.8.2 of ETSI EN 300 328 V2.2.2 (2019-07)

Measurement				
Conducted measurement				
The setting of the Spectrum Analyzer				
Span 🧹 🔶	0Hz			
Filter Mode	Channel Filter			
Trace Mode	Max Hold			
Trigger Mode	Video trigger; in case video triggering is not possible, an external trigger source may be used			
Detector	RMS _			
Sweep Point / Sweep Mode	Sweep Time [s] / (1 $\mu s)$ or 5 000 whichever is greater/ Continuous			
RBW / VBW	1MHz / 3MHz			

#### 3.4.3 DEVIATION FROM TEST STANDARD

No deviation

#### 3.4.4 TEST SETUP



According to the ETSI EN 300328 V2.2.2 clause 5.4.8.1: These measurements shall only be performed at normal test conditions. For equipment using FHSS modulation, the measurements shall be performed during normal operation (hopping).

For equipment using wide band modulations other than FHSS, the measurement shall be performed at the lowest and the highest channel on which the equipment can operate. These operating channels shall be recorded.

The equipment shall be configured to operate under its worst case situation with respect to output power.

If the equipment can operate with different Nominal Channel Bandwidths (e.g. 20 MHz and 40 MHz), then each channel bandwidth shall be tested separately.

#### 3.4.5 TEST RESULTS

EUT :	Mobile Phone	Model Name :	BV5300 Pro
Temperature :	<b>24</b> °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Power :	DC 3.85V
Test Mode :	TX-GFSK(CH00/CH39)		x x

Test data reference attachment

#### 3.5. ADAPTIVE (CHANNEL ACCESS MECHANISM)

#### 3.5.1 APPLICABILITY OF ADAPTIVE REQUIREMENTS AND LILIT FOR WIDE BAND MODULATION TECHNIQUES

#### Refer to chapter ETSI EN 300 328 V2.2.2 (2019-07)

		Ope	rational Mode	
		LBT based Detect an		nd Avoid
Requirement	Non-LBT based Detect and Avoid	Frame Based Equipment	Load Based Equipment (CCA using 'energy detect')	Load Based Equipment (CCA not using any of the mechanisms referenced as note 2)
Minimum Clear Channel Assessment (CCA) Time	NA	not less than 18 us (see note 1)	(see note 2)	not less than 18 us (see note 1)
Maximum Channel Occupancy (COT) Time	<40 ms	1ms to 10 ms	(see note 2)	(13/32)*q ms (see note 3)
Minimum Idle Period	5 % minimum of 100 μs	5% of COT	(see note 2)	NA
Extended CCA check	H NA	NA	(see note 2)	R*CCA (see note 4)
Short Control Signalling Transmissions	Maximur	n duty cycle of 10%	within an observations within an observation see note 5)	on period of 50 ms

Note 1: The CCA time used by the equipment shall be declared by the supplier.

Note 2: Load Based Equipment may implement an LBT based spectrum sharing mechanism based on the Clear Channel Assessment (CCA) mode using energy detect as described in IEEE 802.11[™]-2012 [i.3], clause 9, clause 10, clause 16, clause 17, clause 19 and clause 20, or in IEEE 802.15.4[™]-2011 [i.4], clause 4, clause 5 and clause 8 providing the equipment complies with the conformance requirements referred to in clause 4.3.2.6.3.4. Note 3: g is selected by the manufacturer in the range [4...32]

Note 4: The value of R shall be randomly selected in the range [1...q]

Note 5: Adaptive equipment may or may not have Short Control Signaling Transmissions.

#### Interference threshold level

The detection threshold shall be proportional to the transmit power of the transmitter: for a 20 dBm e.i.r.p. transmitter the detection threshold level (TL) shall be equal to or less than -70 dBm/MHz at the input to the receiver assuming a 0 dBi (receive) antenna assembly. This threshold level (TL) may be corrected for the (receive) antenna assembly gain (G); however, beamforming gain (Y) shall not be taken into account. For power levels less than 20 dBm e.i.r.p., the detection threshold level may be relaxed to:

TL = -70 dBm/MHz + 10 × log10 (100 mW / Pout) (Pout in mW e.i.r.p.)

	Table 9	9: Unwanted Signal parameters	
	Wanted signal mean power	Unwanted signal	Unwanted CW
from companion device		frequency 🧄 🦯	signal power (dBm)
	(dBm)	(MHz)	
	-30/ sufficient to maintain the	2 395 or 2 488,5	-35
	link(see note 2)	(see note 1)	(see note 2)

NOTE 1: The highest frequency shall be used for testing operating channels within the range 2 400 MHz to 2 442 MHz, while the lowest frequency shall be used for testing operating channels within the range 2 442 MHz to 2 483,5 MHz. See clause 5.4.6.1. NOTE 2: A typical value which can be used in most cases is -50 dBm/MHz. NOTE 3: The level specified is the level in front of the UUT antenna. In case of conducted measurements, this level has to be corrected by the actual antenna assembly gain.

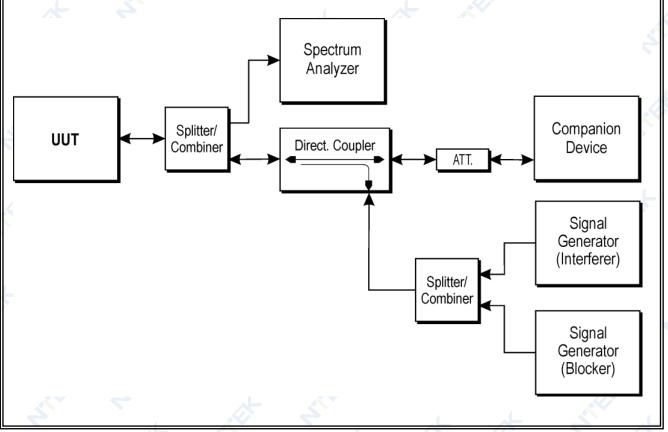
#### 3.5.2 TEST PROCEDURE

Refer to chapter 5.4.6.2 of ETSI EN 300 328 V2.2.2 (2019-07)

NA NA	easurement
IVI	easurement
Conducted measurement	Radiated measurement

Test method please refer to the 5.4.6.2.1.4 of ETSI EN 300 328 V2.2.2 (2019-07)

#### 3.5.3 TEST SETUP CONFIGURATION



N2017.06.06.0614.V.1.2

#### 3.5.4 LIST OF MEASUREMENTS

	UUT operational Mode	
Frame Based Equipment	Load Based Equipment (CCA using 'energy detect')	Load Based Equipment (CCA not using any of the mechanisms referenced)
	V	

Clause	Test Parameter	Remarks	PASS/FAIL
4.3.2.5.2.2.1	Adaptive (Frame Based Equipment)	Not Applicable	N/A
4.3.2.5.2.2.2	Adaptive (Load Based Equipment)	N/A	N/A
4.3.2.5.3	Short Control Signaling Transmissions	N/A	N/A

#### 3.5.5 TEST RESULTS

EUT :	Mobile Phone	Model Name :	BV5300 Pro
Temperature :	<b>24</b> ℃	Relative Humidity :	54%
Pressure :	1010 hPa	Test Power :	N/A
Test Mode :	N/A	~	<u>k</u> 2

#### Note: Not Applicable

#### 3.6. TRANSMITTER UNWANTED EMISSIONS IN THE SPURIOUS DOMAIN

3.6.1 LIMITS OF TRANSMITTER UNWANTED EMISSIONS IN THE SPURIOUS DOMAIN Refer to chapter 4.3.2.9.3 of ETSI EN 300 328 V2.2.2 (2019-07)

TRANSMITTER UNWANTED EMISSIONS IN THE SPURIOUS DOMAIN

Frequency Range	Maximum Power Limit (E.R.P.(≤1 GHz) E.I.R.P.(> 1 GHz))	Bandwidth
30 MHz to 47 MHz	-36dBm	100 kHz
47 MHz to 74 MHz	-54dBm	100 kHz
74 MHz to 87.5 MHz	-36dBm	100 kHz
87.5 MHz to 118 MHz	-54dBm	100 kHz
118 MHz to 174 MHz	-36dBm	100 kHz
174 MHz to 230 MHz	-54dBm	100 kHz
230 MHz to 470 MHz	-36dBm	100 kHz
470 MHz to 694 MHz	-54dBm	100 kHz
694 MHz to 1 GHz	-36dBm	100 kHz
1 GHz ~ 12.75 GHz	-30dBm	1 MHz

#### 3.6.2 TEST PROCEDURE

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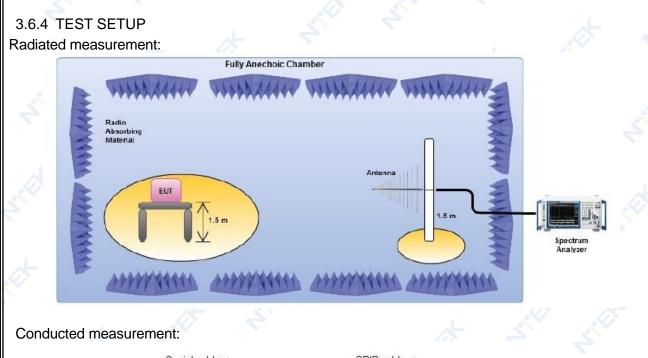
Refer to chapter 5.4.9.2 of ETSI EN 300 328 V2.2.2 (2019-07)

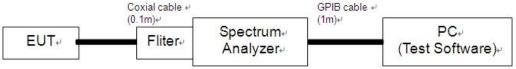
				2	,L		
	Measurement						
Conducted measurement				adiated meas	urement		
The setting of the Spectrum Analyzer							
	RBW	100K(<1GHz) / 1M(>1GHz)			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
	VBW	300K(<1GHz) / 3M(>1GHz)					

#### 3.6.3 DEVIATION FROM TEST STANDARD

No deviation

### NTEK 北测





- 1. For the actual test configuration, please refer to the related Item in this test report (Photographs of the Test Configuration).
- 2. The measurements were performed when normal hopping was disabled. In this case measurements were performed when operating at the lowest and the highest hopping frequency.
- 3. The equipment was configured to operate under its worst case situation with respect to output power.

4. The test setup has been constructed as the normal use condition. Controlling software has been activated to set the EUT on specific status.

#### 3.6.5 TEST RESULTS(Radiated measurement)

BELOW 1 GHz WORST- CASE DATA(30 MHz ~ 1GHz)								
EUT :	Mobile Phone	Model Name :	BV5300 Pro					
Temperature :	24°C	Relative Humidity :	57 %					
Pressure :	1012 hPa	Test Voltage :	DC 3.85V 💦 💫					
Test Mode :	TXGFSK(CH19)		4 <u>5</u>					

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark	
(H/V)	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)		
V	40.89	-70.72	11.14	-59.58	-36	-23.58	peak	
V	101.26	-68.37	10.08	-58.29	-54	-4.29	peak	
V	175.20	-74.59	11.17	-63.42	-54	-9.42	peak	
V	347.57	-72.47	9.66	-62.81	-36	-26.81	peak	
V	472.25	-72.32	10.86	-61.46	-54	-7.46	peak	
Н	36.99	-68.57	10.62	57.95	<ul> <li>-36</li> </ul>	-21.95	peak	
H	107.81	-70.09	9.98	-60.11	-54	-6.11	peak	
Н	221.24	-69.90 🧷	9.78	-60.12	-54	-6.12	peak	
Н	275.94	-71.08	11.38	-59.70	-36	-23.70	peak	
Н	519.84 📈	-75.14	10.40	-64.74	-54	-10.74	peak	

#### Remark:

1.Emission Level= Meter Reading+ Factor, Margin= Limit- Emission Level.
2.All the modes had been tested, but only the worst data recorded in the report.

UT : Mobile Phone			Model Name	: BV53	300 Pro 🍝				
emperature : 26°C ressure : 1012 hPa			Relative Humidity :60 %Test Voltage :DC 3.85V						
								st Mode	
St Mout			5/01133)		4				
Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark		
(H/V)	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	Kennark		
		0	peration fre	quency:2402	Ļ	15	2		
V	2527.768		10.14	-60.89	-30	-30.89	peak		
V	5206.084	-73.9	9.70	-64.20	-30	-34.20	peak		
V	2316.843	-68.41	10.62	-57.79	-30	-27.79	peak		
V	3799.596	-69.25	10.73	-58.52	-30	-28.52	peak		
Н	2334.58	-74.34	10.91	-63.43	-30	-33.43	peak		
Н	5481.05	-69.82	11.15	-58.67	-30	-28.67	peak		
Н	2565.81	-70.54	10.78	-59.76	-30	-29.76	peak		
H	3371.067	-68.36	11.32	-57.04 🤍	-30	-27.04	peak		
	operation frequency:2440								
V	2161.347	-72.29	11.09	-61.20	-30	-31.20	peak		
V	3922.041	-75.6	9.78	-65.82	-30	-35.82	peak		
V	2959.196	-72.25	11.54	-60.71	-30	-30.71	peak		
V	5201.026	-77.94	10.90	-67.04	-30	-37.04	peak		
H	2072.256	-73.95	9.94	-64.01	-30	-34.01	peak		
Н	4076.631	-72.5	11.42	-61.08	-30	-31.08	peak		
Н	2895.752	-70.74	9.75	-60.99	-30	-30.99	peak		
H	5799.966	-76.02	9.63	-66.39	-30	-36.39	peak		
		0	peration fre	equency:2480		_			
V	2249.491	-73.17	9.96	-63.21	-30	-33.21	peak		
V	3950.926	-67.35	10.28	-57.07	-30	-27.07	peak		
V	2446.177	-69.17	10.61	-58.56	-30	-28.56	peak		
V	4627.762	-76.22	11.52	-64.70	-30	-34.70	peak		
Н	2438.413	-76.64	10.11	-66.53	-30	-36.53	peak		
Н	5738.948	-71.94	11.50	-60.44	-30	-30.44	<ul> <li>peak</li> </ul>		
Н	2732.231	-69.15	11.00	-58.15	-30	-28.15	peak		
Н	5442.63	-75.85	10.57	-65.28	-30	-35.28	peak		

Remark:

Emission Level= Meter Reading+ Factor, Margin= Limit- Emission Level.
 All the modes had been tested, but only the worst data recorded in the report.

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3.6.6 TEST RESULTS (Conducted measurement)

Test data reference attachment

#### 3.7. RECEIVER SPURIOUS RADIATION

#### 3.7.1 LIMITS OF RECEIVER SPURIOUS RADIATION Refer to chapter 4.3.2.10.3 of ETSI EN 300 328 V2.2.2 (2019-07)

RECEIVER SPURIOUS EMISSIONS						
Frequency Range	Maximum Power Limit (E.R.P.(≤1 GHz) E.I.R.P.(> 1 GHz))	Measurement Bandwidth				
30 MHz ~ 1 GHz	-57dBm	100KHz				
1 GHz ~ 12.75 GHz	-47dBm	1MHz				

#### 3.7.2 TEST PROCEDURE

Refer to chapter 5.4.10.2 of ETSI EN 300 328 V2.2.2 (2019-07)

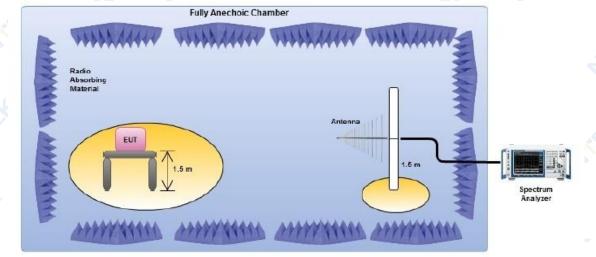
Measurement							
Conducted m	5	⊠Rad	liated measu	urement			
The setting of the Spectrum Analyzer							
RBW	100K(<1GHz) / 1M	(>1GHz)	X				
VBW	300K(<1GHz) / 3M	(>1GHz)		~	*		

#### 3.7.3 DEVIATION FROM TEST STANDARD

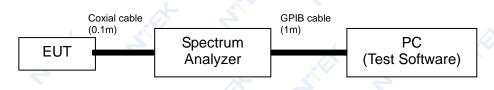
No deviation

3.7.4 TEST SETUP

#### Radiated measurement:



Conducted measurement:



- 1. For the actual test configuration, please refer to the related Item in this test report (Photographs of the Test Configuration).
- 2. Testing was performed when the equipment was in a receive-only mode.
- 3. The measurements were performed when normal hopping was disabled. In this case measurements were performed when operating at the lowest and the highest hopping frequency.
- 4. The test setup has been constructed as the normal use condition. Controlling software has been activated to set the EUT on specific status.

#### 3.7.5 TEST RESULTS(Radiated measurement)

	RX BELOW 1 GHz WORST- CASE DATA(30 MHz ~ 1GHz)							
EUT : Mobile Phone Model Name : BV5300 Pro								
Temperature :	26°C	Relative Humidity :	60 %					
Pressure :	1012 hPa	Test Voltage :	DC 3.85V					
Test Mode :	RX Mode-GFSK(CH19)	•						

	Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(H/V)	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
ſ	V	31.855	-82.17	13.05	-6 <mark>9</mark> .12	-57	-12.12	peak
	V	100.96	-82.74	11.68	-71.06	-57	-14.06	peak
	V	215.06	-83.39	19.01	-64.38	-57	-7.38	peak
	V	347.799	-78.63	11.70	-66.93	-57	-9.93	peak
ſ	V	514.985	-82.2	11.51	-70.69	-57	-13.69	peak
	Н	41.356	-81.87	18.67	-63.20	-57	-6.20	peak
	Н 💉	102.041	-82.94	18.19	-64.75	-57	-7.75	peak
	H C	184.036	-83.22	10.34	-72.88	-57	-15.88	peak
	Н	390.775	-82.78 📈	15.00	-67.78	-57	-10.78	peak
ſ	Н	512.802	-80.05	14.74	-65.31	-57	-8.31	peak

#### Remark:

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

2. All the modes had been tested, but only the worst data recorded in the report.

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## NTEK 北测[®]

	RX ABOVE 1 GHz WORST- C	ASE DATA(1GHz ~	12.75GHz)
EUT:	Mobile Phone	Model Name :	BV5300 Pro
Temperature :	<b>24</b> ℃	Relative Humidity	54%
Pressure :	1010 hPa	Test Power :	DC 3.85V
Test Mode :	RX Mode-GFSK(CH19)	7	

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
V	2685.698	-83	10.06	-72.94	-47	-25.94	peak
V	3920.905	-81.51	9.85	-71.66	-47	-24.66	peak
- V	2969.878	-82.56	10.07	-72.49	-47	-25.49	peak
V	5604.937	-78.87	16.25	-62.62	-47	-15.62	peak
Н	2816.018	-80.8	10.24	-70.56	-47	-23.56	peak
Н	4172.051	-84.07	10.69	-73.38	-47	-26.38	peak
Н	2668.516	-84.82	8.78	-76.04	-47	-29.04	peak
Н	4895.369	-82.52	14.67	-67.85	-47	-20.85	peak

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

2. All the modes had been tested, but only the worst data recorded in the report.

3.7.6 TEST RESULTS (Conducted measurement)

Test data reference attachment

#### 3.8. RECEIVER BLOCKING

#### 3.8.1 PERFORMANCE CRITERIA

The minimum performance criterion shall be a PER less than or equal to 10 %. The manufacturer may declare alternative performance criteria as long as that is appropriate for the intended use of the equipment (see clause 5.4.1.t)).

#### 3.8.2 LIMITS OF RECEIVER BLOCKING

While maintaining the minimum performance criteria as defined in clause 4.3.2.11.3, the blocking levels at specified frequency offsets shall be equal to or greater than the limits defined for the applicable receiver category provided in table 14, table 15 or table 16.

Wanted signal mean power from	Blocking signal	Blocking signal power	Type of blocking
companion device (dBm)	Frequency	(dBm) (see note 4)	signal
(see notes 1 and 4)	(MHz)		V
(-133 dBm + 10 × log₁₀(OCBW))	2 380	-34	CW
or -68 dBm whichever is less	2 504		×
(see note 2)			
(-139 dBm + 10 × log₁₀(OCBW))	2 300		2
	2 330	2 2	
or -74 dBm whichever is less	2 360		
(see note 3)	2524		
	2584		<u> </u>
	2674		

#### Table 14: Receiver Blocking parameters for Receiver Category 1 equipment

#### NOTE 1: OCBW is in Hz.

NOTE 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to Pmin + 26 dB where Pmin is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.

NOTE 3: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to Pmin + 20 dB where Pmin is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.

NOTE 4: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2.

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Table 15: Receiver Blocking parameters receiver category 2 equipment								
Wanted signal mean power from	Blocking signal	Blocking signal power	Type of blocking					
companion device (dBm)	Frequency (MHz)	(dBm) (see note 3)	signal					
(see notes 1 and 3)								
(-139 dBm + 10 × log₁₀(OCBW) + 10 dB)	2 380	-34	CW					
or (-74 dBm + 10 dB) whichever is less	2 504		* *					
(see note 2)	2 300							
	2 584							

#### NOTE 1: OCBW is in Hz.

NOTE 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to Pmin + 26 dB where Pmin is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.

NOTE 3: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2.

#### Table 16: Receiver Blocking parameters receiver category 3 equipment

Wanted signal mean power from	Blocking signal	Blocking signal power	Type of blocking
companion device (dBm)	Frequency (MHz)	(dBm) (see note 2)	signal
(-139 dBm + 10 × log₁₀(OCBW) + 20 dB)	2 380	-34	CW
or (-74 dBm + 20 dB) whichever is less	2 504	A Contraction	
(see note 2)	2 300		
	2 584		

#### NOTE 1: OCBW is in Hz.

NOTE 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative the test may be performed using a wanted signal up to Pmin + 30 dB where Pmin is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.

NOTE 3: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2.

### 3.8.3 TEST PROCEDURE Refer to chapter 5.4.11.2 of ETSI EN 300 328 V2.2.2 (2019-07) Measurement Conducted measurement Radiated measurement 3.8.4 DEVIATION FROM TEST STANDARD No deviation 3.8.5 TEST SETUP Variable attenuator Performance step size ≤ 1 dB Monitoring Device Signalling Unit or Companion Device ATT. Direct. Coupler Splitter/ ATT. UUT Combiner Blocking Signal Source Spectrum Analyzer Optional

### 3.8.6 TEST RESULTS

		· · · · · · · · · · · · · · · · · · ·	
EUT:	Mobile Phone	Model Name :	BV5300 Pro
Temperature :	24 °C	Relative Humidity	54%
Pressure :	1010 hPa	Test Power :	DC 3.85V
Test Mode :	GFSK-RX Mode (CH00/CH39)- 11	N S	

#### CH00:

<u></u>	rec	eiver category 3		
Wanted signal mean power from companion device (dBm) _{Note(1)}	Blocking signal Frequency (MHz)	Blocking signal power (dBm)	PER %	PER Limit %
	2 380 2 504	4	0.53%	≤10%
-58.86	2 300	-34	0.37%	≤10%
	2 584		0.29%	•

#### CH39:

6	re 🔶 re	ceiver category 3		
Wanted signal mean power from companion device (dBm) _{Note(1)}	Blocking signal Frequency (MHz)	Blocking signal power (dBm)	PER %	PER Limit
A CONTRACTOR OF	2 380 2 504	_	0.35% 0.75%	≤10%
-58.87	2 300 2 584	-34	0.56%	≤10%

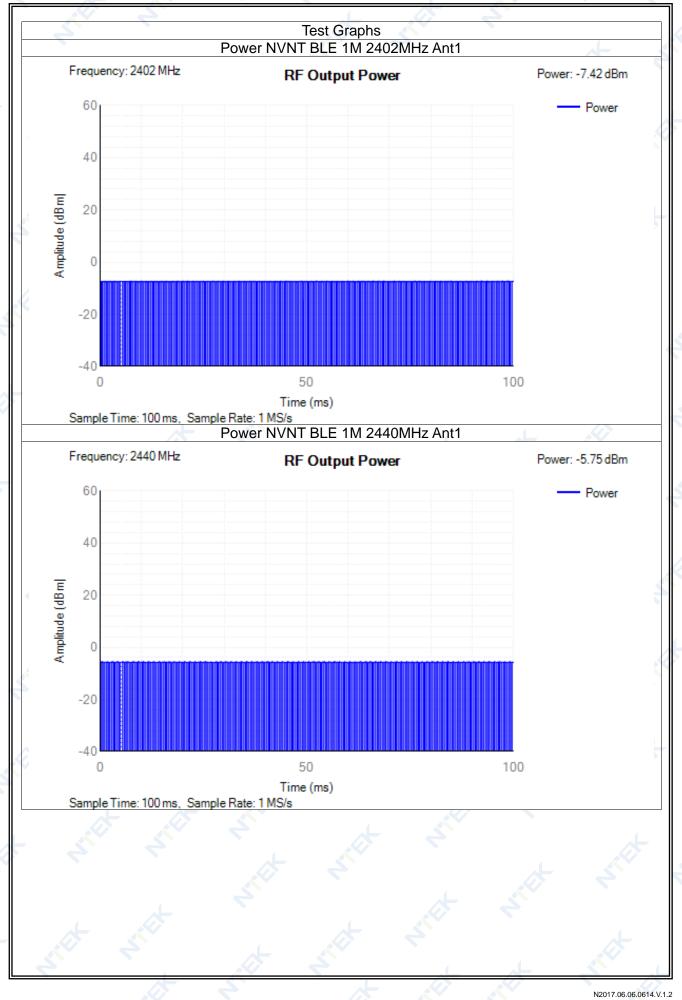
Note: (1) The above results were obtained from laboratory tests.

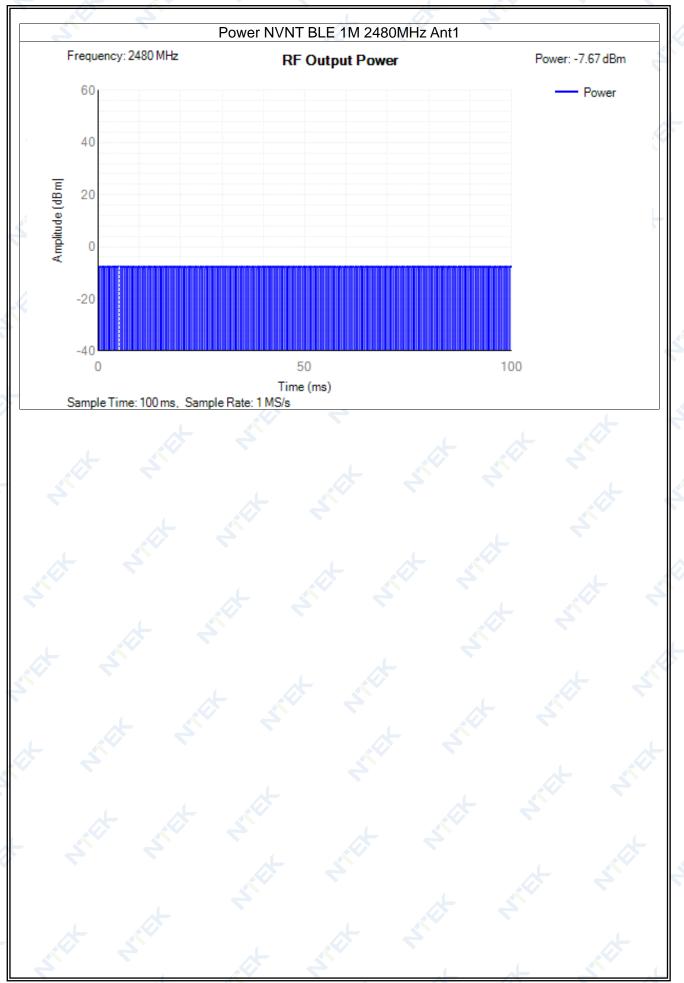
### 4. TEST RESULTS

#### 1M

### 4.1 RF Output Power

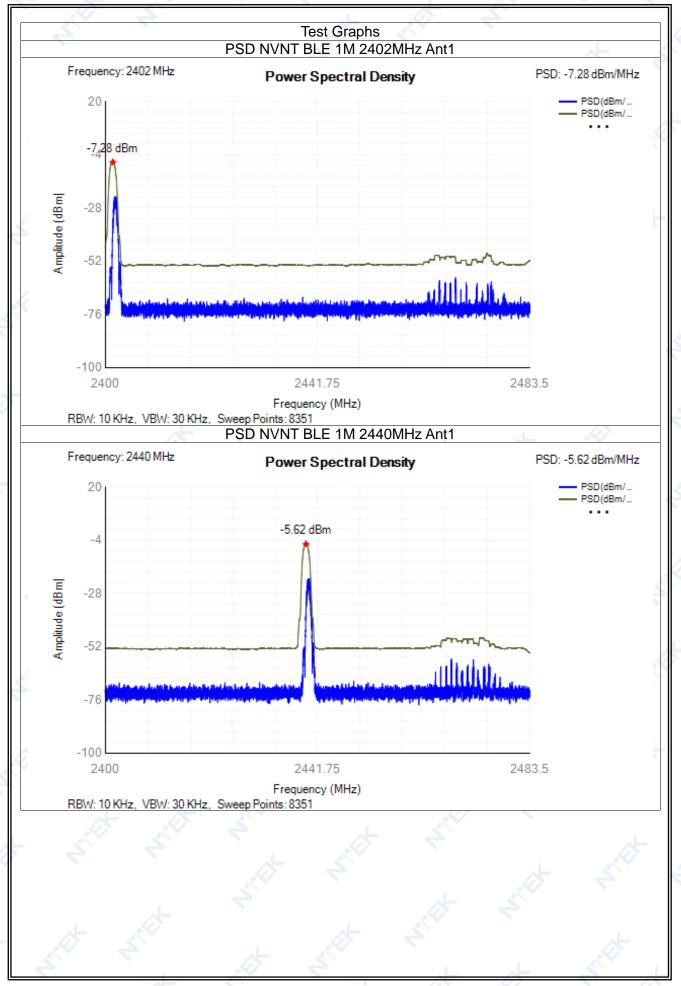
Condition	Mode	Frequency (MHz)	Antenna	Max Burst RMS Power (dBm)	Burst Number	Max EIRP (dBm)	Limit (dBm)	Verdict
<b>NVNT</b>	BLE 1M	2402	Ant1	-7.42	161	-7.22	20	Pass
NVNT	BLE 1M	2440	Ant1	-5.75	161	-5.55	20	Pass
NVNT	BLE 1M	2480	Ant1	-7.67	161	-7.47	20	Pass
NVLT	BLE 1M	2402	Ant1	-7.65	161 🏑	-7.45	20	Pass
NVLT	BLE 1M	2440	Ant1	-5.81	161 🔽	-5.61	20	Pass
NVLT	BLE 1M	2480	Ant1	-7.83	161	-7.63	20	Pass
NVHT	BLE 1M	2402	Ant1	-7.88	161	-7.68	20	Pass
NVHT	BLE 1M	2440	Ant1	-6.06	161	-5.86	20	Pass
NVHT 📈	BLE 1M	2480	Ant1	-7.98	161	-7.78	20	Pass

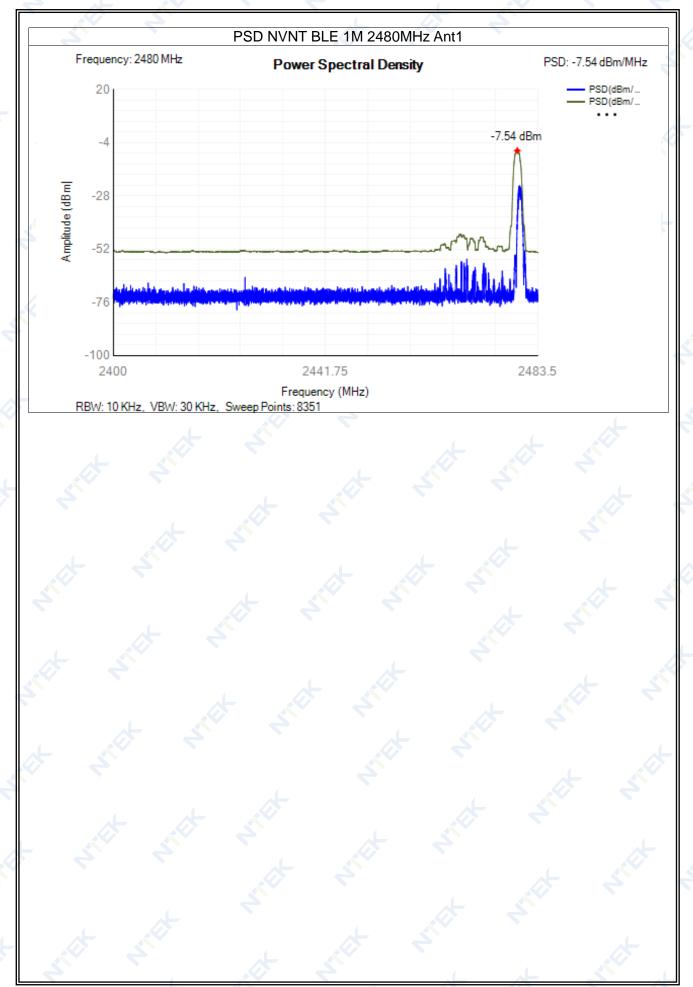




### **4.2 Power Spectral Density**

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-7.28	10	Pass
NVNT	BLE 1M	2440	Ant1	-5.62	10	Pass
NVNT	BLE 1M	2480	Ant1	-7.54	10	Pass





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### 4.3 Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	Center Frequency (MHz)	OBW (MHz)	Lower Edge (MHz)	Upper Edge (MHz)	Limit OBW (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	2402.005	1.033	2401.489	2402.521	2400 - 2483.5MHz	Pass
NVNT	BLE 1M	2440	Ant1	2440.005	1.033	2439.489	2440.521	2400 - 2483.5MHz	Pass
NVNT	BLE 1M	2480	Ant1	2480.004	1.031	2479.489	2480.519	2400 - 2483.5MHz	Pass

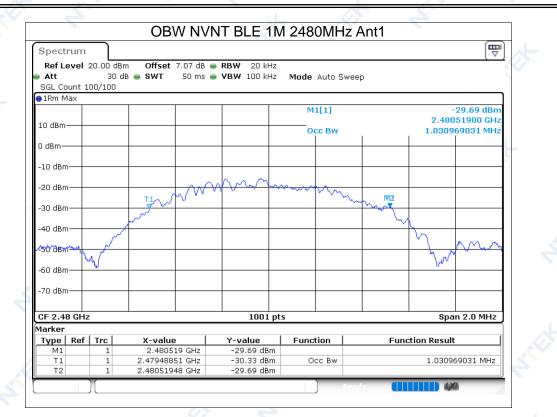
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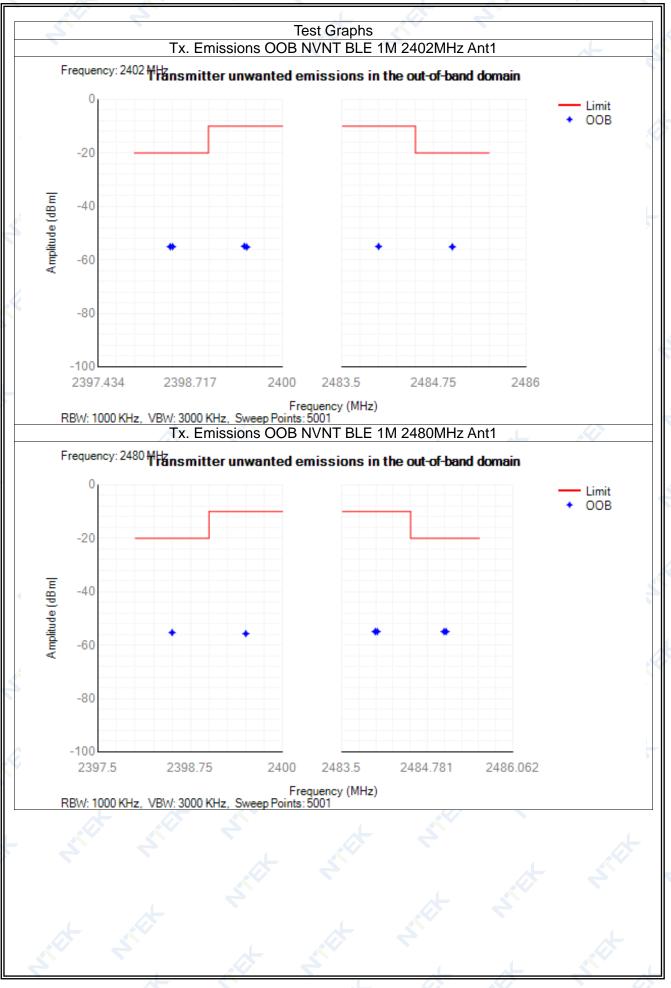


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				OOB			
Condition	Mode	Frequency (MHz)	Antenna	Frequency (MHz)	Level (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	2399.5	-55.19	-10	Pass
NVNT	BLE 1M	2402	Ant1	2399.467	-54.9	-10	Pass
NVNT	BLE 1M	2402	Ant1	2398.467	-55.04	-20	Pass
NVNT	BLE 1M	2402	Ant1	2398.434	-55.05	-20	Pass
NVNT	BLE 1M	2402	Ant1	2484	-54.99	-10	Pass
NVNT	BLE 1M	2402	Ant1	2485	-55.12	-20	Pass
	BLE 1M	2480	Ant1	2399.5	-55.71	-10	Pass
NVNT	BLE 1M	2480	Ant1	2398.5	-55.31	-20	Pass
NVNT	BLE 1M	2480	Ant1	2484	-54.95	-10	Pass
NVNT	BLE 1M	2480	Ant1	2484.031	-54.93	-10	Pass
NVNT	BLE 1M	2480	Ant1	2485.031	-54.95	-20	Pass
NVNT	BLE 1M	2480	Ant1	2485.062	-54.95	-20	Pass



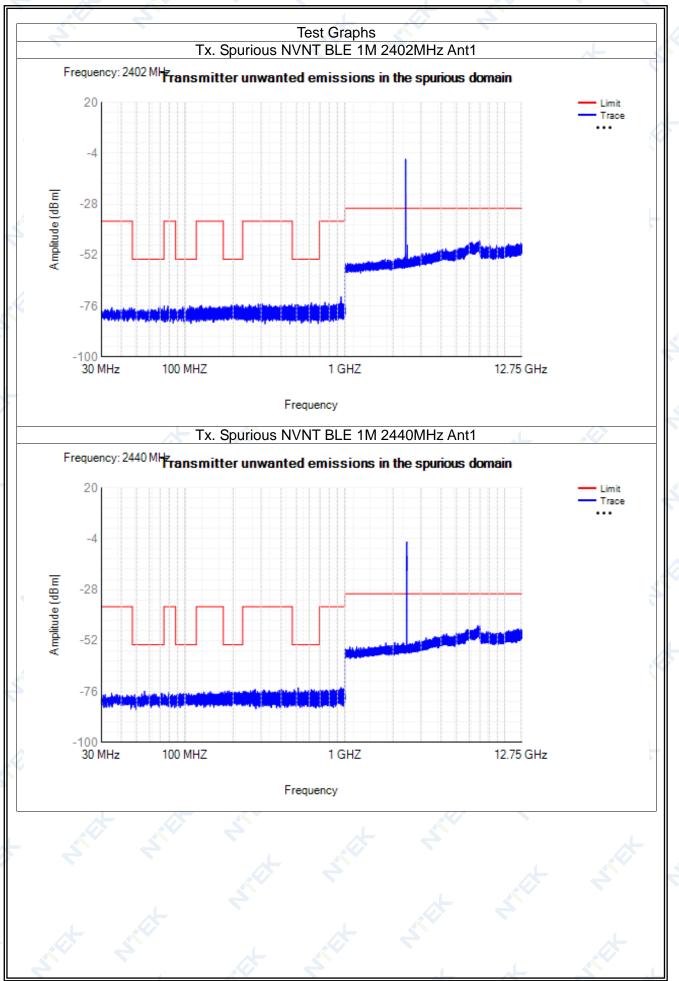
Report No.: STR230317002002E

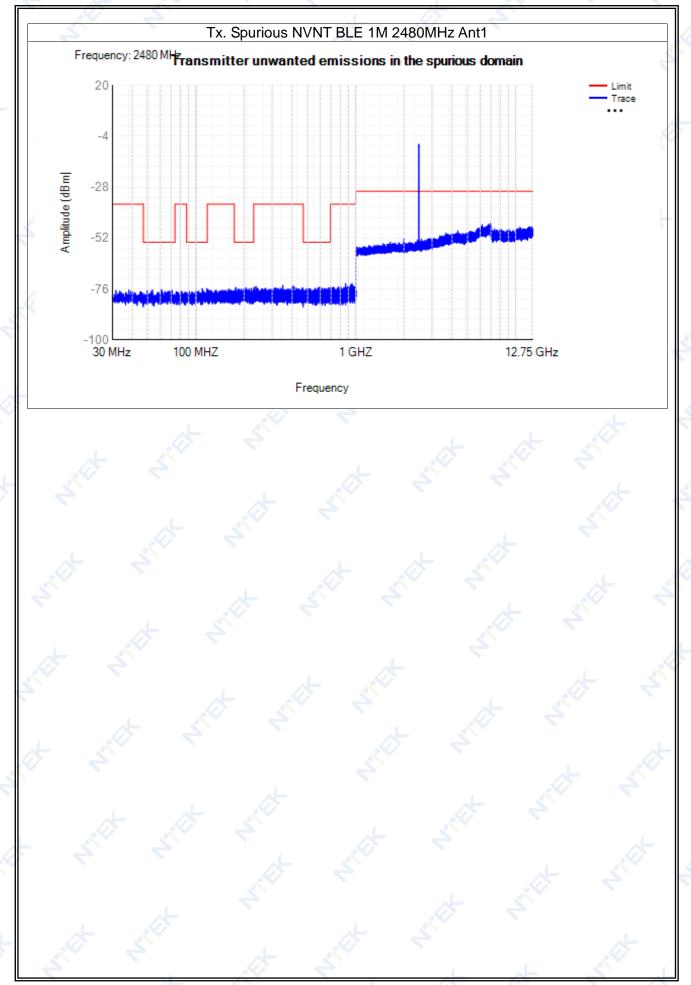
Condit	ion I	Mode	Frequency (MHz)	Antenna	Range (MHz)	Spur Freq (MHz)	Peak (dBm)	RMS (dBm)	Limit (dBm)	Verdic
NVN	Т	BLE 1M	2402	Ant1	30 -47	34.95	-76.75	NA	-36	Pass
NVN	Т	BLE 1M	2402	Ant1	47 -74	70.00	-75.89	NA	-54	Pass
NVN	Т	BLE 1M	2402	Ant1	74 -87.5	74.20	-75.95	NA	-36	Pass
NVN	т	BLE 1M	2402	Ant1	87.5 -118	107.45	-75.89	NA	-54	Pass
NVN	т	BLE 1M	2402	Ant1	> 118 -174	127.45	-75.71	NA	-36	Pass
NVN	т	BLE 1M	2402	Ant1	174 -230	210.80	-75.22	NA	-54	Pass
NVN	Т	BLE 1M	2402	Ant1	230 -470	287.80	-75.02	NA	-36	Pass
NVN	Т	BLE 1M	2402	Ant1	470 -694	618.45	-74.40	NA	-54	Pass
NVN	т	BLE 1M	2402	Ant1	694 -1000	948.25	-71.66	NA	-36	Pass
NVN	Т	BLE 1M	2402	Ant1	1000	2362.00	-52.98	NA	-30	Pass
NVN	T	BLE 1M	2402	Ant1	2485.5 -12750	6959.50	-45.12	NA	-30	Pass
NVN	T	BLE 1M	2440	Ant1	30 -47	34.85	-76.69	NA	-36	Pass
NVN	Т	BLE 1M	2440	Ant1	47 -74	55.90	-75.83	NA	-54	Pass
NVN	т	BLE 1M	2440	Ant1	74 -87.5	79.55	-76.29	NA	-36	Pass
NVN	т	BLE 1M	2440	Ant1	87.5 -118	105.85	-76.87	NA	-54	Pass
NVN	T	BLE 1M	2440	Ant1	118	144.50	-76.06	NA	-36	Pass
NVN	т	BLE 1M	2440	Ant1	174 -230	188.55	-75.66	NA	-54	Pass
NVN	T	BLE 1M	2440	Ant1	230 -470	401.75	-74.88	NA	-36	Pass
NVN	т	BLE 1M	2440	Ant1	470	511.75	-74.26	NA	-54	Pass
NVN	T	BLE 1M	2440	Ant1	694 -1000	948.20	-74.12	NA	-36	Pass
NVN	т	BLE 1M	2440	Ant1	1000 -2398	2054.00	-52.86	NA	-30	Pass
NVN	Т	BLE 1M	2440	Ant1	-2398 2485.5 -12750	6786.00	-44.95	NA	-30	Pass
NVN	T	BLE 1M	2480	Ant1	30 -47	38.10	-76.44	NA	-36	Pass
NVN	т	BLE	2480	Ant1	47 -74	60.95	-76.25	NA	-54	Pass
NVN	T	1M BLE	2480	Ant1	74	81.80	-77.11	NA	-36	Pass
NVN	T	1M BLE	2480	Ant1	-87.5 87.5	117.20	-75.71	NA	-54	Pass
NVN		1M BLE	2480	Ant1	-118 118	160.35	-75.96	NA	-36	Pass
NVN		1M BLE 1M	2480	Ant1	-174 174 -230	177.35	-75.19	NA	-54	Pass

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	4									
NVNT	BLE 1M	2480	Ant1	230 -470	349.85	-74.22	NA	-36	Pass	
NVNT	BLE 1M	2480	Ant1	470 -694	592.75	-75.09	NA	-54	Pass	
NVNT	BLE 1M	2480	Ant1	694 -1000	863.60	-73.33	NA	-36	Pass	
NVNT	BLE 1M	2480	Ant1	1000 -2398	1996.50	-52.51	NA	-30	Pass	~
NVNT	BLE 1M	2480	Ant1	2485.5 -12750	6946.50	-45.04	NA	-30	Pass	S

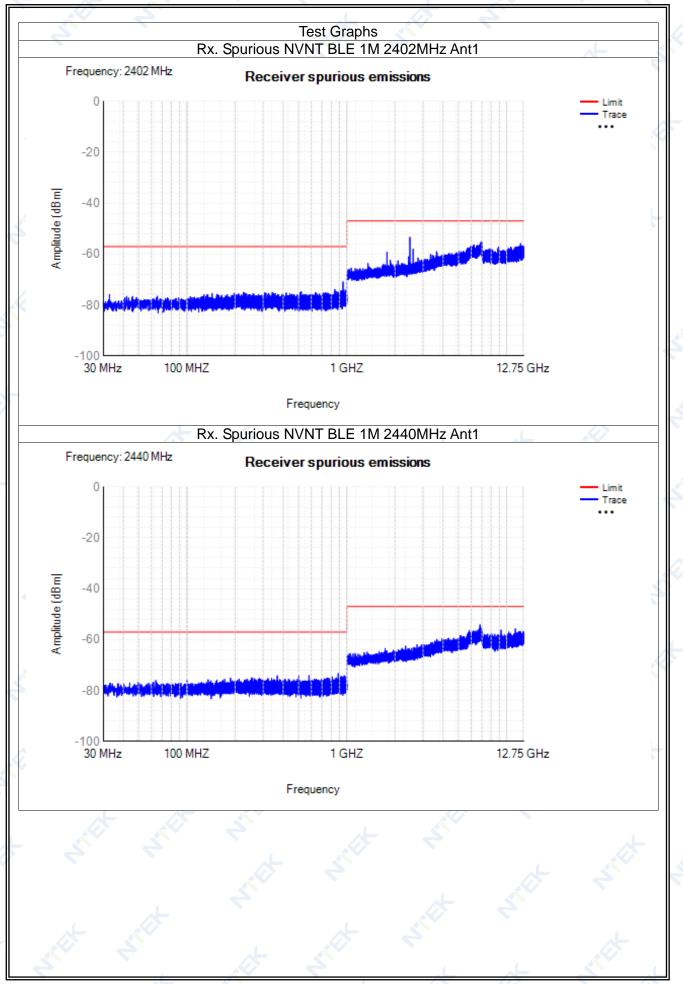


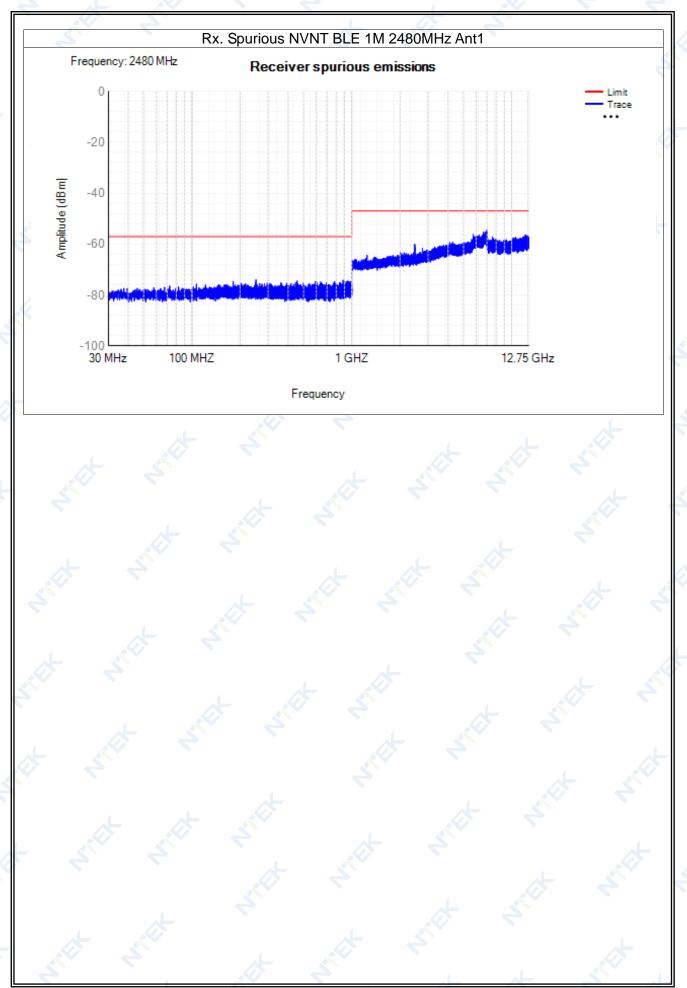


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### 4.6 Receiver spurious emissions

Condition	Mode	Frequency (MHz)	Antenna	Range (MHz)	Spur Freq (MHz)	Peak (dBm)	RMS (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	30 -1000	948.25	-70.83	NA	-57	Pass
NVNT	BLE 1M	2402	Ant1	1000 -12750	2480	-53.37	NA	-47	Pass
NVNT	BLE 1M	2440	Ant1	30 -1000	883.65	-73.24	NA	-57	Pass
NVNT	BLE 1M	2440	Ant1	1000 -12750	6805	-54.18	NA	-47	Pass
NVNT	BLE 1M	2480	Ant1	30 -1000	251.75	-73.98	NA	-57	Pass
NVNT	BLE 1M	2480	Ant1	1000 -12750	6995	-54.32	NA	-47	Pass

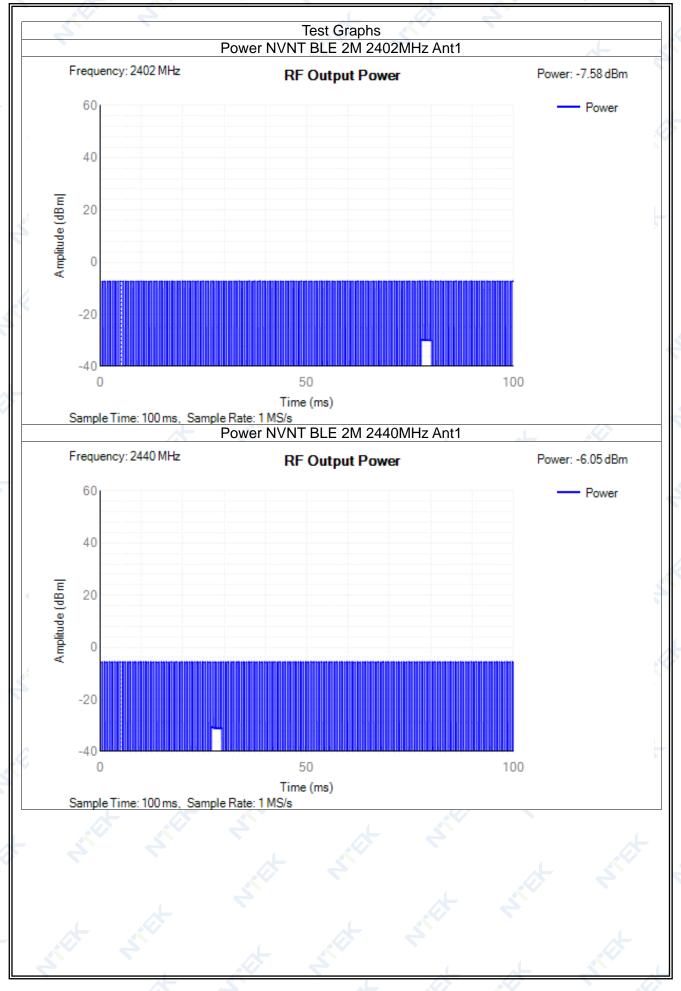


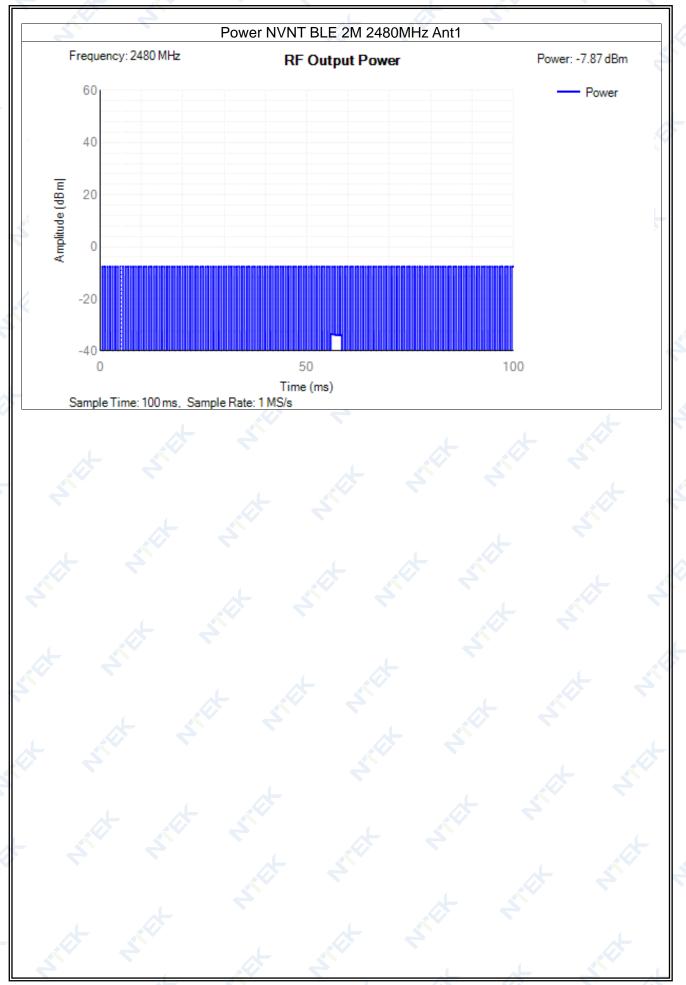


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### 4.1 RF Output Power

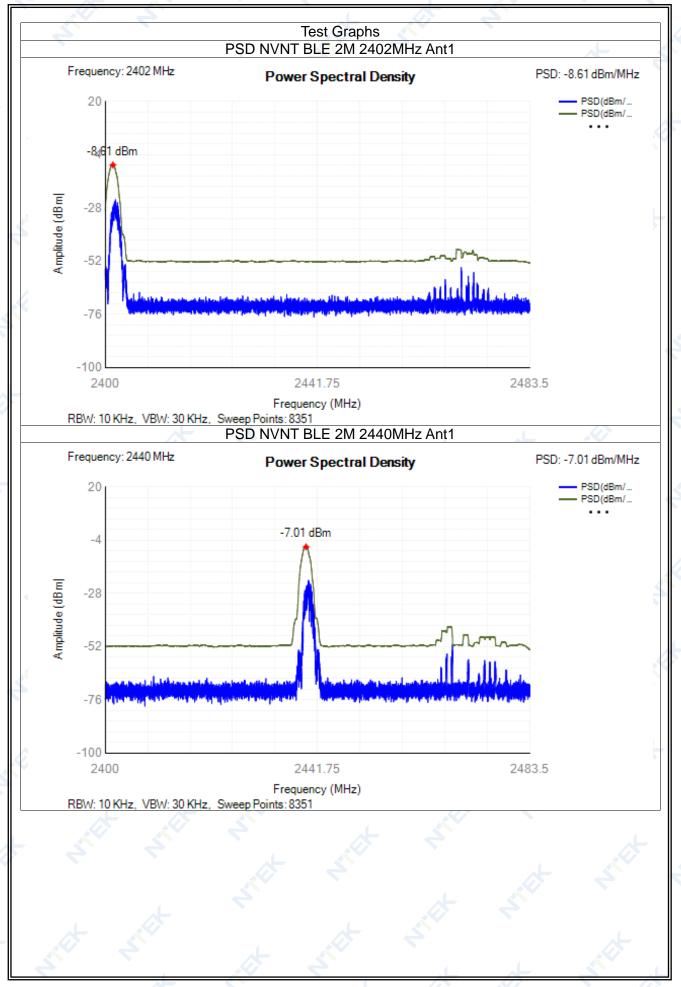
Condition	Mode	Frequency (MHz)	Antenna	Max Burst RMS Power (dBm)	Burst Number	Max EIRP (dBm)	Limit (dBm)	Verdict
NVNT	BLE 2M	2402	Ant1	-7.58	158	-7.38	20	Pass
NVNT	BLE 2M	2440	Ant1	-6.05	157	-5.85	20	Pass
NVNT	BLE 2M	2480	Ant1	-7.87	158	-7.67	20	Pass
NVLT	BLE 2M	2402	Ant1	-7.85	158	-7.65	20	Pass
NVLT	BLE 2M	2440	Ant1	-6.28	157	-6.08	20	Pass
NVLT	BLE 2M	2480	Ant1	-7.91	158	-7.71	20	Pass
NVHT	BLE 2M	2402	Ant1	-8.18	158	-7.98	20	Pass
NVHT	BLE 2M	2440	Ant1	- <mark>6</mark> .31	157	-6.11	20	Pass
NVHT	BLE 2M	2480	Ant1	-8.26	158	-8.06	20	Pass

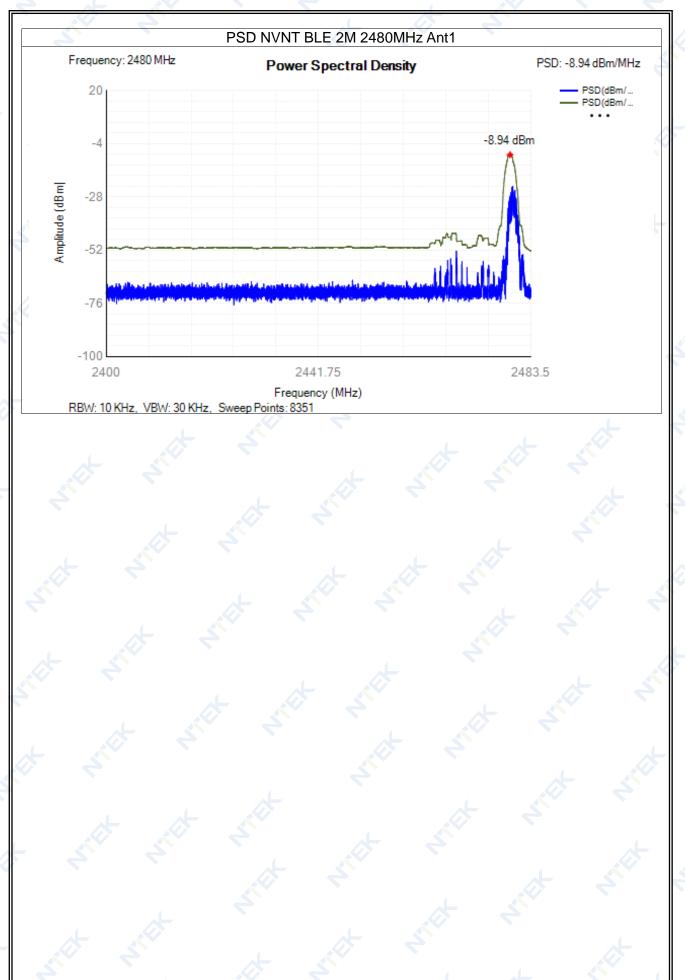




### **4.2 Power Spectral Density**

	or opo					
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	BLE 2M	2402	Ant1	-8.61	10	Pass
NVNT	BLE 2M	2440	Ant1	-7.01	10	Pass
NVNT	BLE 2M	2480	Ant1	-8.94	10	Pass





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### 4.3 Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	Center Frequency (MHz)	OBW (MHz)	Lower Edge (MHz)	Upper Edge (MHz)	Limit OBW (MHz)	Verdict
NVNT	BLE 2M	2402	Ant1	2402.012	2.078	2400.973	2403.051	2400 - 2483.5MHz	Pass
NVNT	BLE 2M	2440	Ant1	2440.012	2.078	2438.973	2441.051	2400 - 2483.5MHz	Pass
NVNT	BLE 2M	2480	Ant1	2480.008	2.078	2478.969	2481.047	2400 - 2483.5MHz	Pass

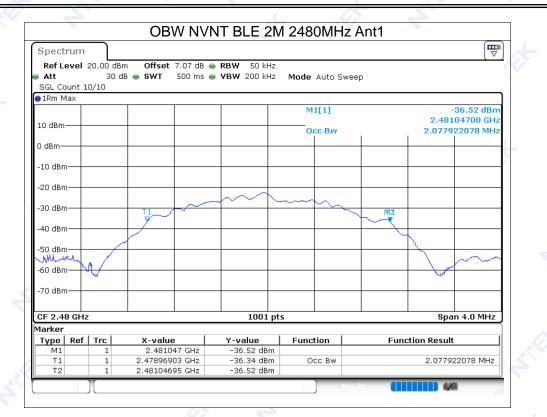
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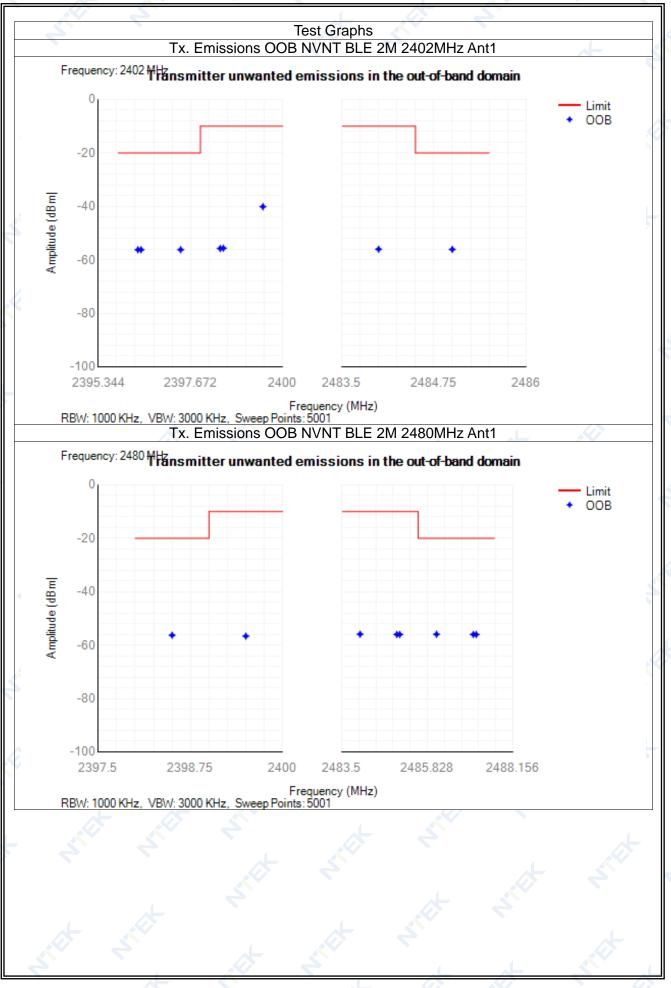


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Condition	Mode	Frequency (MHz)	Antenna	OOB Frequency (MHz)	Level (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	BLE 2M	2402	Ant1	2399.5	-40.1	-10	Pass
NVNT	BLE 2M	2402	Ant1	2398.5	-55.63	-10	Pass
NVNT	BLE 2M	2402	Ant1	2398.422	-55.73	-10	Pass
NVNT	BLE 2M	2402	Ant1	2397.422	-56.18	-20	Pass
NVNT	BLE 2M	2402	Ant1	2396.422	-56.2	-20	Pass
NVNT	BLE 2M	2402	Ant1	2396.344	-56.21	-20	Pass
	BLE 2M	2402	Ant1	2484	-56.01	-10	Pass
NVNT	BLE 2M	2402	Ant1	2485	-56.08	-20	Pass
NVNT	BLE 2M	2480	Ant1	2399.5	-56.64	-10	Pass
NVNT	BLE 2M	2480	Ant1	2398.5	-56.29	-20	Pass
NVNT	BLE 2M	2480	Ant1	2484	-55.92	-10	Pass
NVNT	BLE 2M <	2480	Ant1	2485	-56.02	-10	Pass
NVNT	BLE 2M	2480	Ant1	2485.078	-56.01	-10	Pass
NVNT	BLE 2M	2480	Ant1	2486.078	-55.95	-20	Pass
NVNT	BLE 2M	2480	Ant1	2487.078	-56.01	-20	Pass
NVNT	BLE 2M	2480	Ant1	2487.156	-56.03	-20	Pass

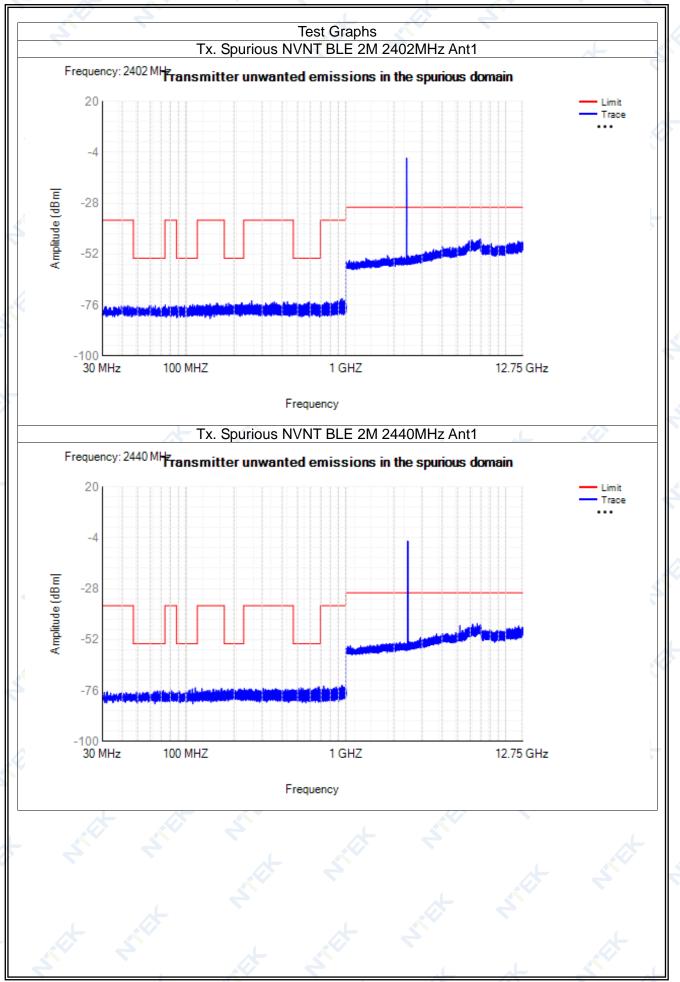


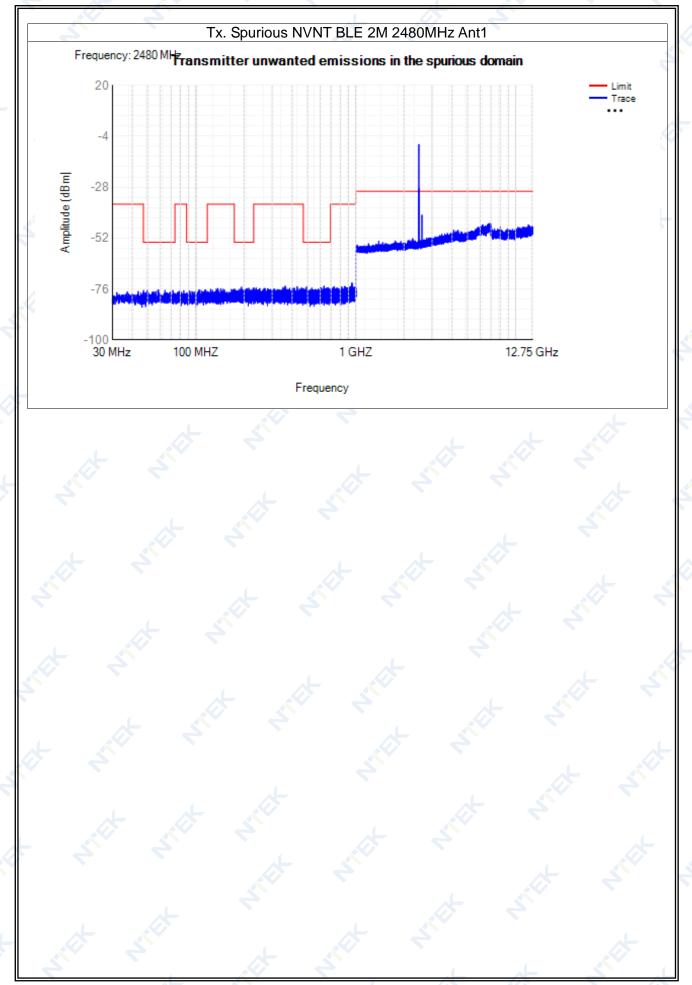
Condition	Mode	Frequency (MHz)	Antenna	Range (MHz)	Spur Freq (MHz)	Peak (dBm)	RMS (dBm)	Limit (dBm)	Verdic
NVNT	BLE 2M	2402	Ant1	30 -47	43.45	-76.23	NA	-36	Pass
NVNT	BLE 2M	2402	Ant1	47 -74	60.20	-76.13	NA	-54	Pass
NVNT	BLE 2M	2402	Ant1	74 -87.5	74.30	-75.91	NA	-36	Pass
NVNT	BLE 2M	2402	Ant1	87.5 -118	110.45	-75.71	NA	-54	Pass
NVNT	BLE 2M	2402	Ant1	> 118 -174	155.90	-75.00	NA	-36	Pass
NVNT	BLE 2M	2402	Ant1	174 -230	224.90	-74.92	NA	-54	Pass
	BLE 2M	2402	Ant1	230 -470	257.70	-73.94	NA	-36	Pass
NVNT	BLE 2M	2402	Ant1	470 -694	588.40	-74.52	NA	-54	Pass
NVNT	BLE 2M	2402	Ant1	694 -1000	948.25	-72.90	NA	-36	Pass
NVNT	BLE 2M	2402	Ant1	1000 -2396	1823.00	-52.67	NA	-30	Pass
NVNT	BLE 2M	2402	Ant1	2487.5 -12750	6909.50	-44.99	NA	-30	Pass
NVNT	BLE 2M	2440	Ant1	30 - 47	32.35	-76.55	NA	-36	Pass
NVNT	BLE 2M	2440	Ant1	47 -74	72.15	-75.96	NA	-54	Pass
NVNT	BLE 2M	2440	Ant1	74 -87.5	80.30	-75.67	NA	-36	Pass
NVNT	BLE 2M	2440	Ant1	87.5 -118	114.55	-74.68	NA	-54	Pass
NVNT	BLE 2M	2440	Ant1	118 -174	167.50	-74.90	NA	-36	Pass
NVNT	BLE 2M	2440	Ant1	174 -230	217.85	-75.21	NA	-54	Pass
NVNT	BLE 2M	2440	Ant1	230 -470	231.80	-74.93	NA	-36	Pass
NVNT	BLE 2M	2440	Ant1	470 -694	679.20	-74.17	NA	-54	Pass
NVNT	BLE 2M	2440	Ant1	694 -1000	945.65	-73.46	NA	-36	Pass
NVNT	BLE 2M	2440	Ant1	1000	2181.00	-53.19	NA	-30	Pass
NVNT	BLE 2M	2440	Ant1	2487.5 -12750	6634.50	-44.45	NA	-30	Pass
NVNT	BLE 2M	2480	Ant1	30 -47	43.60	-77.14	NA	-36	Pass
NVNT	BLE 2M	2480	Ant1	47 -74	58.25	-76.33	NA	-54	Pass
NVNT	BLE 2M	2480	Ant1	74 -87.5	83.95	-76.74	NA	-36	Pass
NVNT	BLE 2M	2480	Ant1	87.5 -118	114.00	-76.39	NA	-54	Pass
NVNT	BLE 2M	2480	Ant1	-118 -174	137.40	-75.68	NA	-36	Pass
NVNT	BLE 2M	2480	Ant1	174 -230	192.85	-75.06	NA	-54	Pass

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	·									_
NVNT	BLE 2M	2480	Ant1	230 -470	361.65	-74.55	NA	-36	Pass	
NVNT	BLE 2M	2480	Ant1	470 -694	632.40	-74.63	NA	-54	Pass	
NVNT	BLE 2M	2480	Ant1	694 -1000	948.30	-73.20	NA	-36	Pass	
NVNT	BLE 2M	2480	Ant1	1000 -2396	2269.00	-52.19	NA	-30	Pass	
NVNT	BLE 2M	2480	Ant1	2487.5 -12750	2591.50	-41.09	NA	-30	Pass	

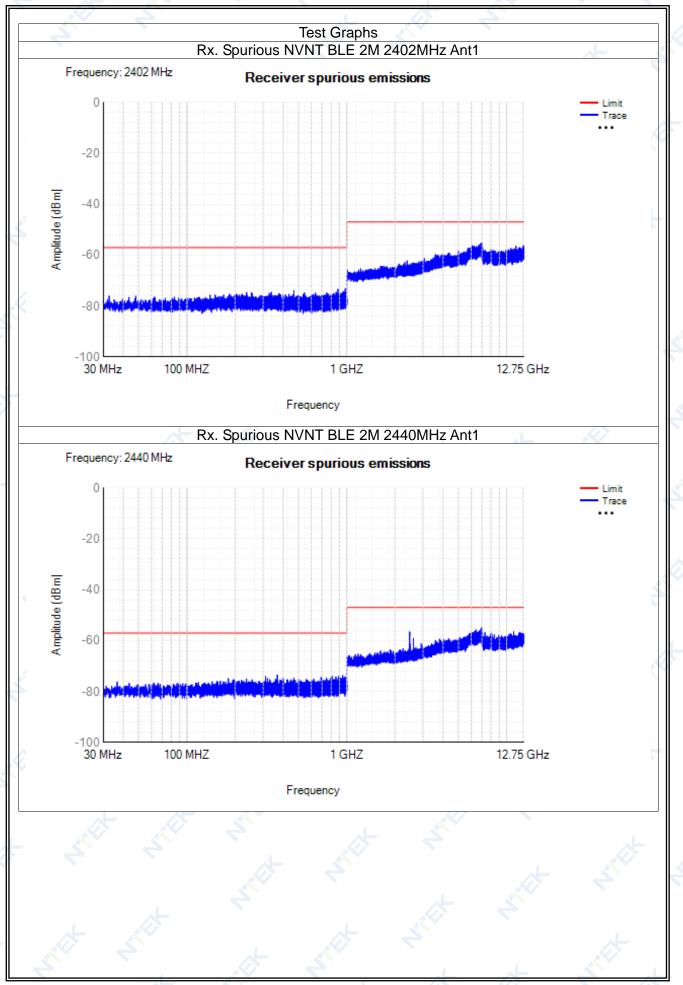


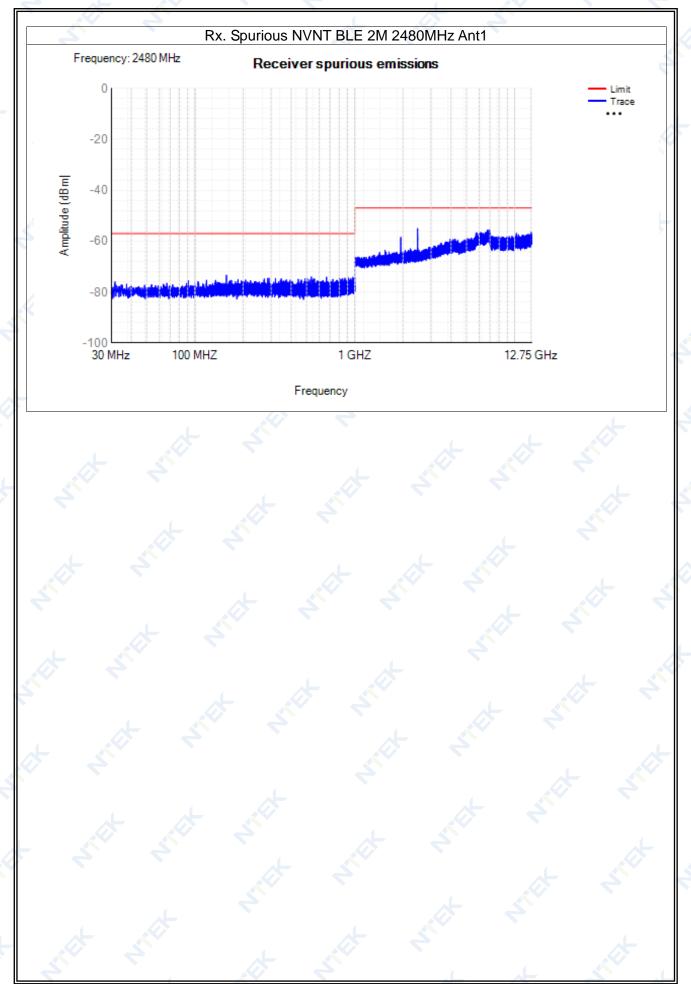


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### 4.6 Receiver spurious emissions

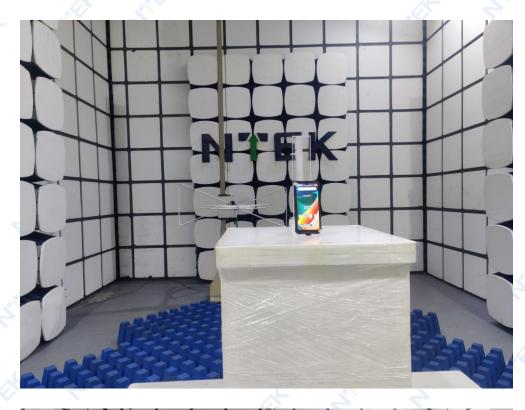
Condition	Mode	Frequency (MHz)	Antenna	Range (MHz)	Spur Freq (MHz)	Peak (dBm)	RMS (dBm)	Limit (dBm)	Verdict
NVNT	BLE 2M	2402	Ant1	30 -1000	977.8	-73.25	NA	-57	Pass
NVNT	BLE 2M	2402	Ant1	1000 -12750	6948	-55.20	NA	-47	Pass
NVNT	BLE 2M	2440	Ant1	30 -1000	367.7	-73.52	NA	-57	Pass
NVNT	BLE 2M	2440	Ant1	1000 -12750	6963	-54.75	NA	-47	Pass
NVNT	BLE 2M	2480	Ant1	30 -1000	157.5	-73.34	NA	-57	Pass
NVNT	BLE 2M	2480	Ant1	1000 -12750	2467.5	-55.07	NA	-47	Pass





### 5. EUT TEST PHOTO

#### SPURIOUS EMISSIONS MEASUREMENT PHOTOS





END OF REPORT