

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

Product: Mobile Phone

Trade Mark: Blackview

Model Name: BV7100

Family Model: N/A

Report No.: STR220722005002E

Prepared for

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Prepared by

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TEST RESULT CERTIFICATION

4		
Applicant's name: DOKE C	OMMUNICATION (HK) LIMITED	
AddressRM 1902	2 EASEY COMM BLDG 253-261 HENN	ESSY ROAD
WANCH.	AI HK, CHINA	
Manufacturer's Name: Shenzhe Address 801, Buil		inity Vutana Road
Address Gor, Building	ling District, Shenzhen, China	inty, rotally rload,
Product description		
Product name: Mobile P	Phone	
Trademark: Blackvie	W	
Model Name: BV7100		
Family Model: N/A		
Standards: ETSI EN	I 300 328 V2.2.2 (2019-07)	
This device described above has been to equipment under test (EUT) is in complia requirements. And it is applicable only to	ance with the 2014/53/EU RED Directive	e Art.3.2
This report shall not be reproduced exce	ept in full, without the written approval of	Shenzhen NTEK,
this document may be altered or revised	by Shenzhen NTEK, personnel only, a	nd shall be noted in
the revision of the document.		
Test Sample Number	T22072203R003	
Date of Test		
Date (s) of performance of tests:		
Date of Issue:		
Test Result:	Pass	
7	£ 5	
Testing Engineer	: Muhr Lee	
*	: Muhzi Lee (Mukzi Lee)	
	(Wartzi 200)	
Authorized Signatory	Alex &	
d 2" "	(Alex Li)	_
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Revision History

Report No.	Version	Description	Issued Date
STR220722005002E	Rev.01	Initial issue of report	Aug 23, 2022
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1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF EUT

Equipment	Mobile Phone	<u> </u>	
Trade Mark	Blackview		
Model Name.	BV7100 N/A		
Family Model			
Model Difference	N/A		
	The EUT is Mobile Phone		
	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)	1.41 dBi	
		7, 5,	
Channel List	Refer to below		
Adapter	Model: QA-0300CE03 Input: 100-240V~50/60Hz 0.8A Output: (PD)5.0V=3.0A or 9.0V=3.0A or 12.0V=2.5A or 15.0V=2.0A or 20.0V=1.5A (PPS)3.3V-11.0V=3.0A(33.0W MAX) DC 3.85V, 13000mAh, 50.05Wh DC 3.85V from battery or DC 5V from Adapter.		
Battery			
Rating			
I/O Ports	Refer to users manual		
Hardware Version	M800_MBA2_BOM3	大	
Software Version	BV7100_EEA_M800	* 3,	





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
01	2404
- C	<i>→ → → → → → → → → →</i>
<u> </u>	<u> </u>
38	2478
39	2480

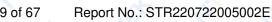
1.2 INFORMATION ABOUT THE EUT
a) The type of modulation used by the equipment:
☐ FHSS
other forms of modulation
b) In case of FHSS modulation:
In case of non-Adaptive Frequency Hopping equipment:
The number of Hopping Frequencies:
In case of Adaptive Frequency Hopping Equipment:
The maximum number of 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):	
The weret consequent and work for each of the following tests:	
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 of	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)	



NTEK 北测[®]

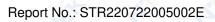


ı	* 03 &
	☐ High Throughput (> 1 spatial stream) using Nominal Channel Bandwidth 1☐ High Throughput (> 1 spatial stream) using Nominal Channel Bandwidth 2
	NOTE 1: Add more lines if more channel bandwidths are supported.
I	Operating mode 3: Smart Antenna Systems - Multiple Antennas with beam forming
I	Single spatial stream / Standard throughput (e.g. IEEE 802.11™ [i.3] legacy mode)
I	☐ High Throughput (> 1 spatial stream) using Nominal Channel Bandwidth 1
I	☐ High Throughput (> 1 spatial stream) using Nominal Channel Bandwidth 2
I	NOTE 2: Add more lines if more channel bandwidths are supported.
	h) In case of Smart Antenna Systems:
I	The number of Receive chains:
I	The number of Transmit chains:
	symmetrical power distribution
	asymmetrical power distribution
I	In case of beam forming, the maximum (additional) beam forming gain: dB
I	NOTE: The additional beam forming gain does not include the basic gain of a single antenna.
	i) Operating Frequency Range(s) of the equipment:
I	Operating Frequency Range 2: AMUz to 2480 MHz Operating Frequency Range 2: AMUz to AMUz
I	Operating Frequency Range 2: MHz to MHz NOTE: Add more lines if more Frequency Ranges are supported.
ı	j) Nominal Channel Bandwidth(s):
I	Nominal Channel Bandwidth 1: 1.027MHz(1M)
I	Nominal Channel Bandwidth 2: 2.066MHz(2M)
I	NOTE: Add more lines if more channel bandwidths are supported.
I	k) Type of Equipment (stand-alone, combined, plug-in radio device, etc.):
I	Stand-alone
I	Combined Equipment (Equipment where the radio part is fully integrated within another type of
I	equipment)
I	Plug-in radio device (Equipment intended for a variety of host systems) Other
1	I) The normal and the extreme operating conditions that apply to the equipment:
I	Normal operating conditions (if applicable):
I	Operating temperature: 15℃~35℃
1	Other (please specify if applicable):
ı	Extreme operating conditions:
I	Operating temperature range: Minimum: -10℃ Maximum 40℃
1	Other (please specify if applicable): Minimum: Maximum
	Details provided are for the:
	stand-alone equipment
	combined (or host) equipment test jig





assemblies and their of Antenna Type: PIFA A Integral Antenna (in Antenna Gain:1.4		o. levels:	
Integral Antenna (in	ntenna		
	intornia		
Antonna Gain:1 4	nformation to be provi	ded in case of conducted	measurements)
Antenna Gam. 1.7	1 dBi		
If applicable, addition	nal beamforming gain	(excluding basic antenna	a gain): dB
☐ Temporary RF	connector provided		
☐ No temporary	RF connector provide	ed	
☐ Dedicated Antenna	s (equipment with ant	enna connector)	
Single power l	evel with correspondi	ng antenna(s)	
☐ Multiple power	r settings and corresp	onding antenna(s)	
Number of differe	ent Power Levels:		
Power Level 1:	dBm		
Power Level 2:	dBm		
Power Level 3:	dBm		
NOTE 1: Add mo	ore lines in case the e	quipment has more powe	r levels.
NOTE 2: These p	oower levels are cond	ucted power levels (at an	tenna connector).
For each of the Power L	_evels, provide the int	ended antenna assembli	es, their corresponding gains
Power Level 1: . Number of anten		ed for this power level:	
Assembly #	Gain (dBi)	e.i.r.p. (dBm)	Part number or model name
1M	1.41	-0.61	
2M	1.41	-0.58	
2M	4	A 100	
NOTE 3: Add mo	ore rows in case more	A 100	supported for this power level.
NOTE 3: Add mo Power Level 2: . Number of anteni	ore rows in case more	antenna assemblies are	
NOTE 3: Add mo Power Level 2: . Number of anteni	ore rows in case moredBm na assemblies provid	antenna assemblies are	
NOTE 3: Add mo Power Level 2: . Number of anteni Assembly #	ore rows in case moredBm na assemblies provid	antenna assemblies are	
NOTE 3: Add mo Power Level 2: . Number of anten Assembly # 1	ore rows in case moredBm na assemblies provid	antenna assemblies are	
NOTE 3: Add mo Power Level 2: . Number of anteni Assembly # 1 2 3 NOTE 4: Add mo Power Level 3: .	ore rows in case moredBm na assemblies provide Gain (dBi) ore rows in case moredBm	antenna assemblies are ed for this power level: e.i.r.p. (dBm)	Part number or model name supported for this power level.
NOTE 3: Add mo Power Level 2: . Number of anteni Assembly # 1 2 3 NOTE 4: Add mo Power Level 3: .	ore rows in case moredBm na assemblies provide Gain (dBi) ore rows in case moredBm	antenna assemblies are ed for this power level: e.i.r.p. (dBm) antenna assemblies are	Part number or model name supported for this power level.
NOTE 3: Add mo Power Level 2: . Number of anten Assembly # 1 2 3 NOTE 4: Add mo Power Level 3: . Number of anten	Gain (dBi) Ore rows in case more Gain (dBi) Ore rows in case more Mana assemblies provide Ore rows in case more Mana assemblies provide	antenna assemblies are ed for this power level: e.i.r.p. (dBm) antenna assemblies are ed for this power level:	Part number or model name supported for this power level.
NOTE 3: Add mo Power Level 2: . Number of anten Assembly # 1 2 3 NOTE 4: Add mo Power Level 3: . Number of anten	Gain (dBi) Ore rows in case more Gain (dBi) Ore rows in case more Mana assemblies provide Ore rows in case more Mana assemblies provide	antenna assemblies are ed for this power level: e.i.r.p. (dBm) antenna assemblies are ed for this power level:	Part number or model name supported for this power level.





n) The nominal voltages of the stand-alone radio equipment or the nominal voltages of the
combined (host) equipment or test jig in case of plug-in devices:
Details provided are for the:
combined (or host) equipment
☐ test jig
Supply Voltage
DC State DC voltage: DC 3.85V
In case of DC, indicate the type of power source
☐ Internal Power Supply
Battery: DC 3.85V
☐ Other:
o) Describe the test modes available which can facilitate testing:
See clause 1.3
p) The equipment type (e.g. Bluetooth®, IEEE 802.11™ [i.3], IEEE 802.15.4™ [i.4], proprietary, etc.):
Bluetooth®
q) If applicable, the statistical analysis referred to in clause 5.4.1 q)
(to be provided as separate attachment)
r) If applicable, the statistical analysis referred to in clause 5.4.1 r)
(to be provided as separate attachment)
s) Geo-location capability supported by the equipment:
☐ Yes
☐ The geographical location determined by the equipment as defined in clause 4.3.1.13.2 or
clause 4.3.2.12.2 is not accessible to the user
⊠ No
t) Describe the minimum performance criteria that apply to the equipment (see clause 4.3.1.12.3 or
clause 4.3.2.11.3):
GFSK(CH00)=0.71%



1.3 TEST CONDITIONS AND CHANNEL

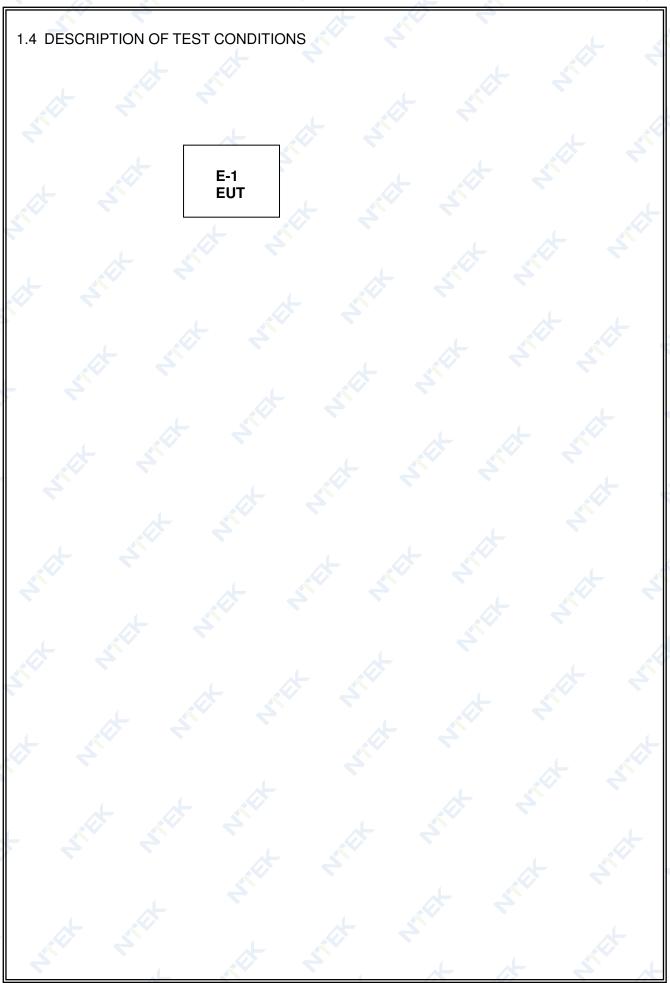
	Normal Test Conditions	Extreme Test Conditions
Temperature	15℃ - 35℃	40°C ~ -10°C Note: (1)
Relative Humidity	20% - 75%	N/A
Supply Voltage	DC 3.85V	/

Test Channel	EUT Channel	Test Frequency (MHz)
Lowest	CH00	2402
Middle	CH19	2440
Highest	CH39	2480

Note:

- (1) The HT 40° C and LT -10° 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.





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.

Item	Equipment	Model/Type No.	Series No.	Note
E-1	Mobile Phone	BV7100	N/A	EUT
	4		* 3	4
		* 3		4
	*	350	4	
Ψ.			-0	4, 4
		4 .40	- 4	
				.L .K

Item	Type	Shielded Type	Ferrite Core	Length	Note
	.C	- 4		با.	- 🐼
<u></u>			.1	70 Y	4
				4. 4	*
			7		

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 <code>"Length_"</code> 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	N/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	2022.04.01	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

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



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	se Test Item	
	TRANSMITTER PARAMETERS	1
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.



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

Weded offer an establish				
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

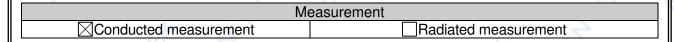
3.1.1 LIMITS OF EQUIVALENT ISOTROPIC RADIATED POWER

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

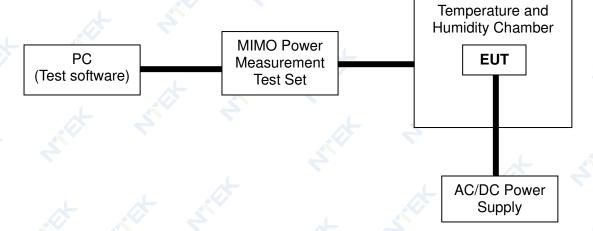
RF OUTPUT POWER				
Condition	Limit			
☐ Non-adaptive wide band modulations systems	Equal to or less than the value declared by the supplier. This declared value shall be equal to or less than 20 dBm.			
Adaptive wide band modulations systems	≤20dBm			

3.1.2 TEST PROCEDURE

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



3.1.3 TEST SETUP







3.1.4 TEST RESULTS

EUT:	Mobile Phone	Model Name :	BV7100
Temperature :	20℃	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					
	For equipment using wide band modulations other than FHSS	≤10 dBm/MHz			

3.2.2 TEST PROCEDURE

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

Troid to diaptor of their or Error Err ded ded	V 2: 2: 2 (2 0 1 0 0 7)			
Measurement				
Weasarement				
□ Conducted measurement	Radiated measurement			

The setting of the Spectrum Analyzer

The setting of the Spectrum An	
Start Frequency	2400MHz
Stop Frequency	2483.5MHz
Detector	RMS
Sweep Point	> 8 350; for spectrum analysers not supporting this number of sweep points, the
4.	
4	frequency band may be segmented
	For non-continuous transmissions: 2 × Channel Occupancy Time
4 4	× number of sweep points
Sweep time:	For continuous transmissions: 10 s; the sweep time may be
4	increased further until a value where the sweep time has no
4 3	further impact anymore on the RMS value of the signal.
RBW / VBW	10KHz / 30KHz

3.2.3 TEST SETUP







3.2.4 TEST RESULTS

EUT:	Mobile Phone	Model Name :	BV7100
Temperature :	26℃	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)

Measurement				
☐ Conducted measurement ☐ Radiated measurement				
The setting of the Spectrum Analyzer				
ncy The centre frequency of the channel under test				
	easurement um Analyzer			

Center Frequency	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 :	BV7100
Temperature :	26℃	Relative Humidity:	60 %
Pressure :	1012 hPa	Test Voltage :	DC 3.85V
Test Mode :	TX-GFSK(CH00/CH19/CH39)	* *	* 4

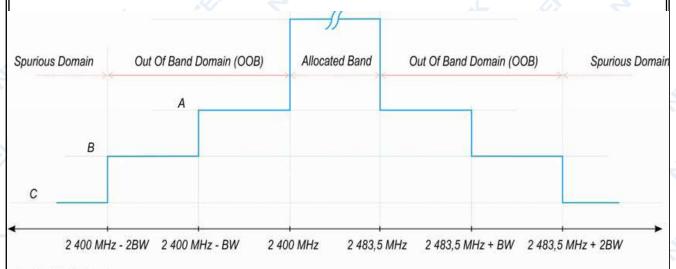
Test data reference attachment



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.			



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)

			_Radiated measu	urement	
The setting of the Spectrum Ana	alyzer	4	*	3500	
Span	0Hz	*			4
Filter Mode	Channel Filte	er		4	
Trace Mode	Max Hold			.0	4
Trigger Mode		r; in case video e may be used	triggering is not p	oossible, an	external
Detector	RMS				
Sweep Point / Sweep Mode	Sweep Time	[s] / (1 µs) or 5	000 whichever is	greater/ Co	ontinuous
RBW / VBW	1MHz / 3MH	z		·	

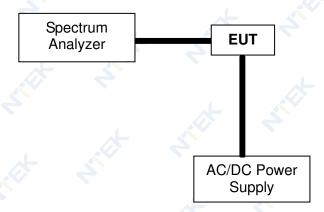
Measurement



3.4.3 DEVIATION FROM TEST STANDARD

No deviation

3.4.4 TEST SETUP



According to the 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 :	BV7100
Temperature :	24 ℃	Relative Humidity:	54%
Pressure :	1010 hPa	Test Power :	DC 3.85V
Test Mode :	TX-GFSK(CH00/CH39)		T 16 4

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)

	terer to enapter E ror E	-11 000 020 12	(-010 01)				
		Operational Mode					
		I <u> </u>		BT based Detect ar	BT based Detect and 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	L NA	NA	(see note 2)	R*CCA (see note 4)		
	Short Control Signalling Transmissions	Maximum duty cycle of 10% within an observation period of 50 m (see note 5)					

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:

 $TL = -70 \text{ dBm/MHz} + 10 \times \log_{10} (100 \text{ mW} / \text{Pout}) \text{ (Pout in mW e.i.r.p.)}$



Table 9: Unwanted Signal parameters

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

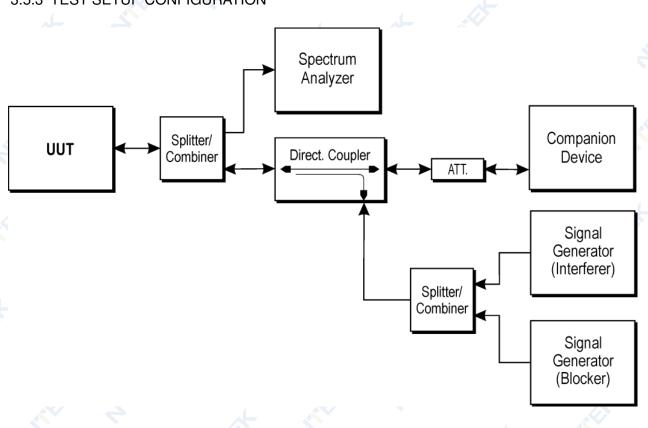
3.5.2 TEST PROCEDURE

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



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





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)			
* 3	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 :	BV7100
Temperature :	24 ℃	Relative Humidity:	54%
Pressure :	1010 hPa	Test Power :	N/A
Test Mode :	N/A		

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 ncy Range (E.R.P.(≤1 GHz) Bandwidtl E.I.R.P.(> 1 GHz))			
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

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

M	easurement
	□ Radiated measurement

The setting of the Spectrum Analyzer

RBW	100K(<1GHz) / 1M(>1GHz)	大	
VBW	300K(<1GHz) / 3M(>1GHz)		

3.6.3 DEVIATION FROM TEST STANDARD

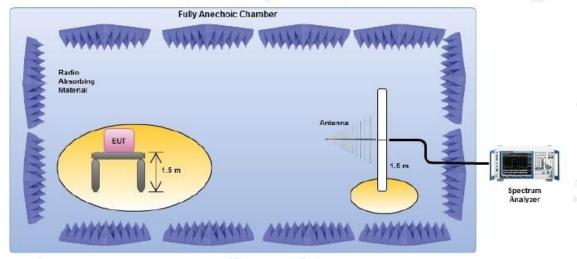
No deviation





3.6.4 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. 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 :	BV7100
Temperature:	24℃	Relative Humidity:	57 %
Pressure :	1012 hPa	Test Voltage :	DC 3.85V
Test Mode :	TXGFSK(CH00)	At .X	7 7

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark	
(H/V)	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)		
V	43.17	-74.28	11.11	-63.17	-36	-27.17	peak	
V	103.40	-75.62	10.01	-65.61	-54	-11.61	peak	
V	200.99	-76.34	11.17	-65.17	-54	-11.17	peak	
V	286.51	-73.57	9.68	-63.89	-36	-27.89	peak	
V	605.03	-77.95	10.97	-66.98	-54	-12.98	peak	
H	37.34	-76.14	10.59	-65.55	-36	-29.55	peak	
Н	98.13	-75.88	9.91	-65.97	-54	-11.97	peak	
Н	201.81	-75.36	9.73	-65.63	-54	-11.63	peak	
Н	232.64	-77.10	11.46	-65.64	36	-29.64	peak	
H	603.16	-74.87	10.37	-64.50	-54	-10.50	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.





ABOVE 1 GHz WORST- CASE DATA (1GHz ~ 12.75GHz)

EUT:	Mobile Phone	Model Name :	BV7100
Temperature :	26℃	Relative Humidity:	60 %
Pressure :	1012 hPa	Test Voltage :	DC 3.85V
Test Mode :	TX-GFSK (CH00/CH19/CH39)		

Polar	Polar (H/V) Frequency Meter Reading Factor Emission Level Limits Company Company		Factor		Limits	Margin	Remark
(H/V)			(dB)				
		ор	eration fred	quency:2402	20		•
V	2924.643	-72.08	10.04	-62.04	-30	-32.04	peak
V	5688.4	-67.05	9.58	-57.47	-30	-27.47	peak
V	2518.828	-67.36	10.53	-56.83	-30	-26.83	peak
V	3022.533	-74.53	10.65	-63.88	-30	-33.88	peak
Н	2762.922	-75.79	10.83	-64.96	-30	-34.96	peak
Н	3420.467	-72.28	11.07	-61.21	-30	-31.21	peak
H	2181.162	-71.02	10.74	-60.28	-30	-30.28	peak
Н	4017.209	-69.42	11.31	-58.11	-30	-28.11	peak
		Ор	eration fred	quency:2440	4	1	
V	2313.018	-73.08	10.97	-62.11	-30	-32.11	peak
V	4408.022	-77.93	9.77	-68.16	-30	-38.16	peak
V	2849.855	-77.69	11.48	-66.21	-30	-36.21	peak
V	4612.641	-71.17	10.84	-60.33	-30	-30.33	peak
Н	2602.024	-72.1	9.93	-62.17	-30	-32.17	peak
Н	3407.292	-76.57	11.34	-65.23	-30	-35.23	peak
H	2975.09	-77.74	9.65	-68.09	-30	-38.09	peak
H	4210.473	-70.2	9.59	-60.61	-30	-30.61	peak
		ор	eration fred	quency:2480			
V	2465.025	-70.76	9.93	-60.83	-30	-30.83	peak
V	4861.636	-68.92	10.19	-58.73	-30	-28.73	peak
V	2604.731	-70.43	10.59	-59.84	-30	-29.84	peak
V	5630.389	-73.59	11.39	-62.20	-30	-32.20	peak
Н	2488.134	-71.87	9.99	-61.88	-30	-31.88	- peak
Н	4205.973	-75.17	11.47	-63.70	-30	-33.70	peak
Н	2161.821	-76.09	10.96	-65.13	-30	-35.13	peak
Н	5382.524	-69.38	10.50	-58.88	-30	-28.88	peak
Domar	I _c A					•	

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.



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			
Francoulancy Banda TERPIST (5H7)		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)

M	easurement		
		⊠Radiated measurement	

The setting of the Spectrum Analyzer

RBW	100K(<1GHz) / 1M(>1GHz)
VBW	300K(<1GHz) / 3M(>1GHz)

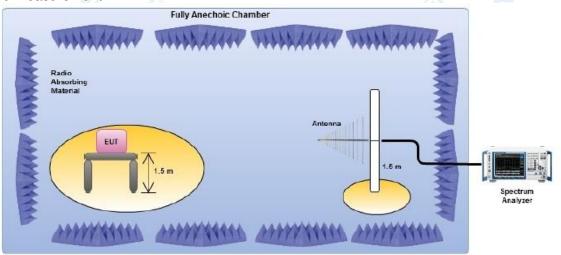
3.7.3 DEVIATION FROM TEST STANDARD

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 :	BV7100
Temperature :	26℃	Relative Humidity:	60 %
Pressure :	1012 hPa	Test Voltage :	DC 3.85V
Test Mode :	RX Mode-GFSK(CH00)	کہ ب لہ	

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBm)) (dB) (dBm) (dBm) (d		(dB)		
V	41.866	-84.68	13.11	-71.57	-57	-14.57	peak
V	101.615	-83.68	11.75	-71.93	-57	-14.93	peak
V	217.126	-80.63	18.97	-61.66	-57	-4.66	peak
V	382.849	-81.89	11.72	-70.17	-57	-13.17	peak
V	568.587	-84.48	11.56	-72.92	-57	-15.92	peak
Н	38.746	-80.11	18.65	-61.46	-57	-4.46	peak
H	90.048	-80.24	_18.20	-62.04	-57	-5.04	peak
Н	185.635	-83.5	10.42	-73.08	-57	-16.08	peak
Н	234.359	-77.64	15.05	-62.59	-57	-5.59	peak
Н	536.823	-77.46	14.72	-62.74	-57	-5.74	peak

Remark:

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





RX ABOVE 1 GHz WORST- CASE DATA(1GHz ~ 12.75GHz)

EUT:	Mobile Phone	Model Name :	BV7100
Temperature:	24 ℃	Relative Humidity	54%
Pressure :	1010 hPa	Test Power :	DC 3.85V
Test Mode :	RX Mode-GFSK(CH00)		7 70 5

4		· · · · · · · · · · · · · · · · · · ·					
Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
V	2479.751	-81.87	9.95	-71.92	-47	-24.92	peak
_ V	4885.987	-82.23	9.86	-72.37	-47	-25.37	peak
V	2590.345	-78.31	10.07	-68.24	-47	-21.24	peak
V	4306.768	-82.04	16.22	-65.82	-47	-18.82	peak
Н	2114.235	-80.57	10.17	-70.40	-47	-23.40	peak
Н	5747.117	-83.79	10.73	-73.06	-47	-26.06	peak
Н	2944.561	-82.39	7.03	-75.36	-47	-28.36	peak
Н	5561.052	-81.26	_ 14.68	-66.58	-47	-19.58	peak

3.7.6 TEST RESULTS (Conducted measurement)

Test data reference attachment

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



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.

Table 14: Receiver Blocking parameters for Receiver Category 1 equipment

Wanted signal mean power from companion device (dBm) (see notes 1 and 4)	Blocking signal Frequency (MHz)	Blocking signal power (dBm) (see note 4)	Type of blocking signal
(-133 dBm + 10 × log ₁₀ (OCBW)) or -68 dBm whichever is less	2 380 2 504	-34	cw
(see note 2) (-139 dBm + 10 × log ₁₀ (OCBW)) or -74 dBm whichever is less	2 300 2 330 2 360	with with	4
(see note 3)	2524 2584 2674		4100

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 P_{min} + 26 dB where P_{min} 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 P_{min} + 20 dB where P_{min} 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.



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 × log ₁₀ (OCBW) + 10 dB)	2 380	-34	CW					
or (-74 dBm + 10 dB) whichever is less	2 504		*					
(see note 2)	2 300	٠,ـ						
	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 P_{min} + 26 dB where P_{min} 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 × log ₁₀ (OCBW) + 20 dB)	2 380	-34	CW
or (-74 dBm + 20 dB) whichever is less	2 504		
(see note 2)	2 300	4	
(000),000 =/	2 584	20 2	. (_

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 P_{min} + 30 dB where P_{min} 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

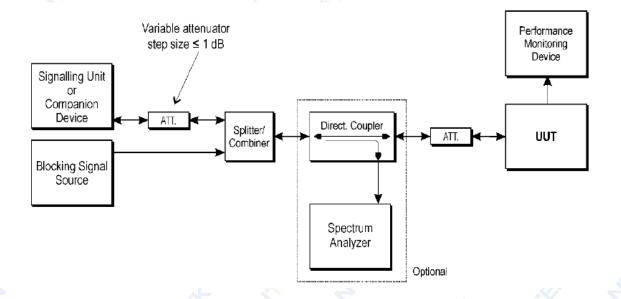
Refer to chapter 5.4.11.2 of ETSI EN 300 328 V2.2.2 (2019-07)

Measurement ☐Radiated measurement

3.8.4 DEVIATION FROM TEST STANDARD

No deviation

3.8.5 TEST SETUP





3.8.6 TEST RESULTS

EUT :	Mobile Phone	Model Name :	BV7100
Temperature :	24 ℃	Relative Humidity	54%
Pressure :	1010 hPa	Test Power :	DC 3.85V
Test Mode :	GFSK-RX Mode (CH00/CH39)	7	<u> </u>

CH00:

receiver category 3

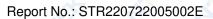
Wanted signal mean power from companion device (dBm) Note(1)	Blocking signal Frequency (MHz)	Blocking signal power (dBm)	PER %	PER Limit %
ه لم	2 380 2 504		0.41% 0.32%	≤10%
-58.88	2 300 2 584	-34	0.52% 0.71%	≤10%

CH39:

receiver 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		0.15%	<400/
	2 504		0.26%	≤10%
-58.88	2 300	-34	0.14%	
	2 584		0.47%	≤10%

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





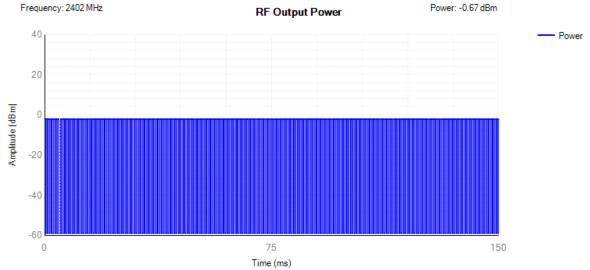
4. TEST RESULTS

1M

4.1 RF Output Power

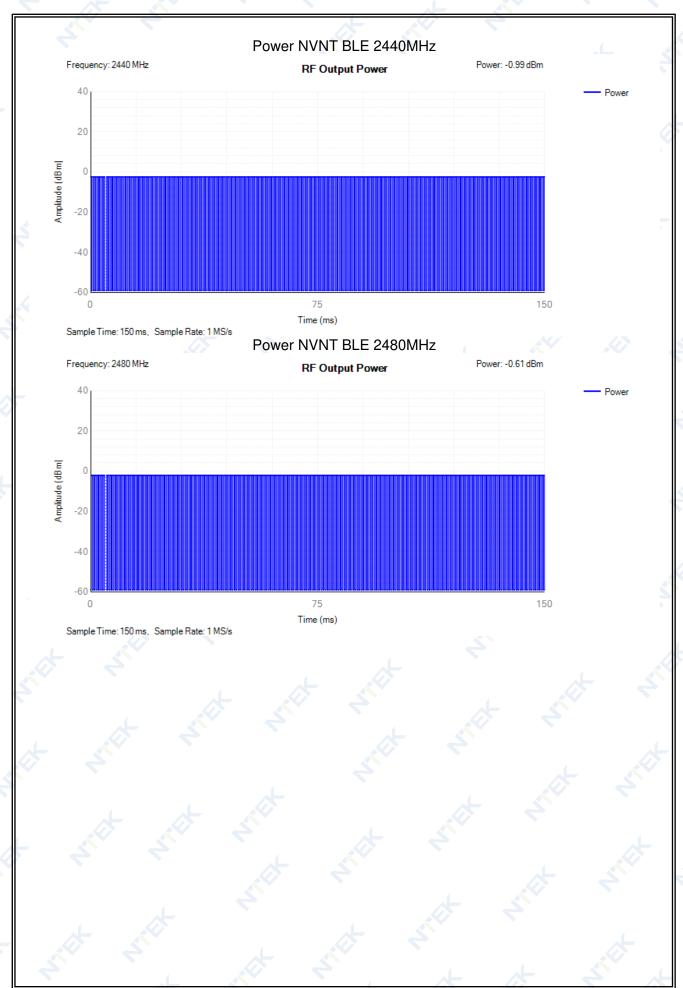
Mode	Frequency (MHz)	Max Burst RMS Power (dBm)	Burst Number	Max EIRP (dBm)	Limit (dBm)	Verdict
BLE	2402	-2.08	241	-0.67	20	Pass
BLE	2440	-2.4	241	-0.99	20	Pass
BLE	2480	-2.02	240	-0.61	20	Pass
BLE	2402	-2.12	241	-0.71	20	Pass
BLE	2440	-2.57	241	-1.16	20	Pass
BLE	2480	-2.28	240	-0.87	20	Pass
BLE	2402 _<	-2.32	241	-0.91	20	Pass
BLE	2440	-2.77	241	-1.36	20	Pass
BLE	2480	-2.43	240	-1.02	20	Pass
	Mode BLE BLE BLE BLE BLE BLE BLE BLE BLE	Mode Frequency (MHz) BLE 2402 BLE 2440 BLE 2480 BLE 2440 BLE 2440 BLE 2440 BLE 2480 BLE 2402 BLE 2402 BLE 2402	Mode Frequency (MHz) Max Burst RMS Power (dBm) BLE 2402 -2.08 BLE 2440 -2.4 BLE 2480 -2.02 BLE 2402 -2.12 BLE 2440 -2.57 BLE 2480 -2.28 BLE 2402 -2.32 BLE 2440 -2.77	Mode Frequency (MHz) Max Burst RMS Power (dBm) Burst Number BLE 2402 -2.08 241 BLE 2440 -2.4 241 BLE 2480 -2.02 240 BLE 2402 -2.12 241 BLE 2440 -2.57 241 BLE 2480 -2.28 240 BLE 2402 -2.32 241 BLE 2440 -2.77 241	Mode Frequency (MHz) Max Burst RMS Power (dBm) Burst Number Max EIRP (dBm) BLE 2402 -2.08 241 -0.67 BLE 2440 -2.4 241 -0.99 BLE 2480 -2.02 240 -0.61 BLE 2440 -2.12 241 -0.71 BLE 2440 -2.57 241 -1.16 BLE 2480 -2.28 240 -0.87 BLE 2402 -2.32 241 -0.91 BLE 2440 -2.77 241 -1.36	Mode Frequency (MHz) Max Burst RMS Power (dBm) Burst Number Max EIRP (dBm) Limit (dBm) BLE 2402 -2.08 241 -0.67 20 BLE 2440 -2.4 241 -0.99 20 BLE 2480 -2.02 240 -0.61 20 BLE 2402 -2.12 241 -0.71 20 BLE 2440 -2.57 241 -1.16 20 BLE 2480 -2.28 240 -0.87 20 BLE 2402 -2.32 241 -0.91 20 BLE 2440 -2.77 241 -1.36 20

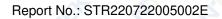
Power NVNT BLE 2402MHz



Sample Time: 150 ms, Sample Rate: 1 MS/s



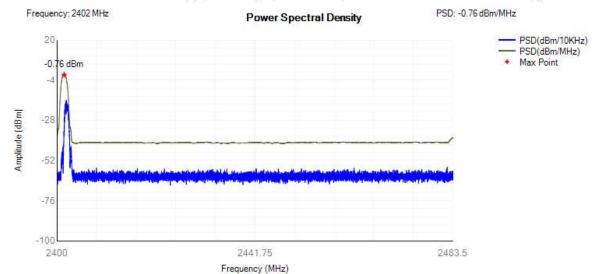






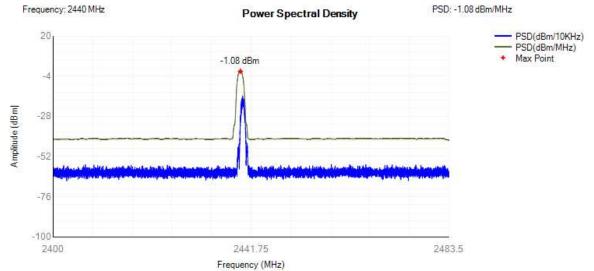
4.2 Power Spectral Density Condition Mode Frequency (MHz) Max PSD (dBm/MHz) Limit (dBm/MHz) Verdict **NVNT** BLE 2402 -0.76 10 Pass **NVNT** BLE 2440 -1.08 10 Pass **NVNT** BLE 2480 -0.7 10 **Pass**

PSD NVNT BLE 2402MHz



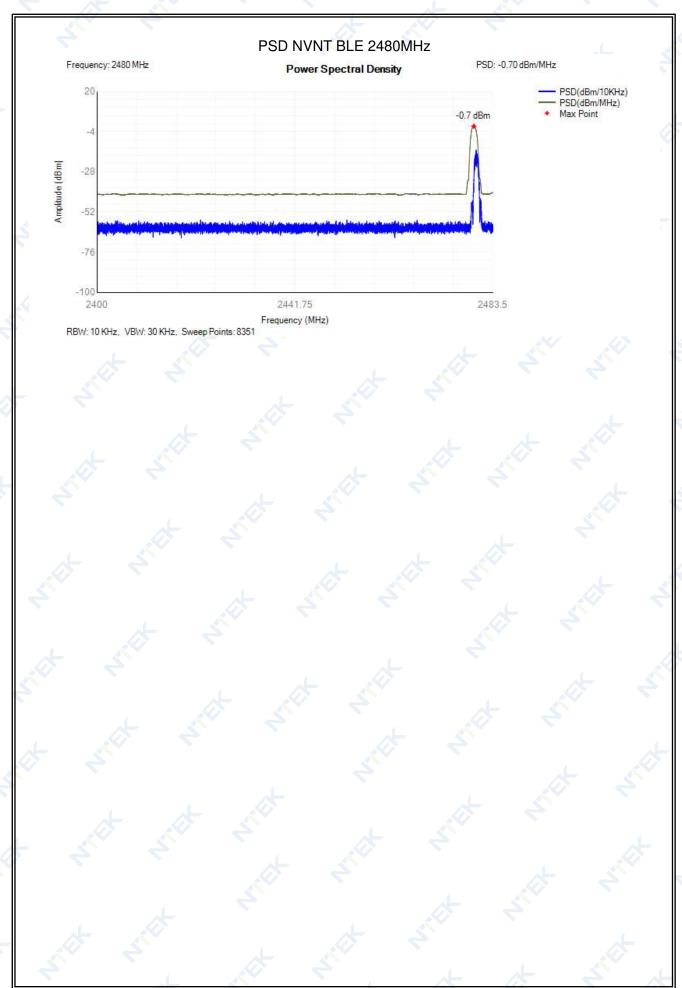
RBW: 10 KHz, VBW: 30 KHz, Sweep Points: 8351

PSD NVNT BLE 2440MHz



RBW: 10 KHz, VBW: 30 KHz, Sweep Points: 8351

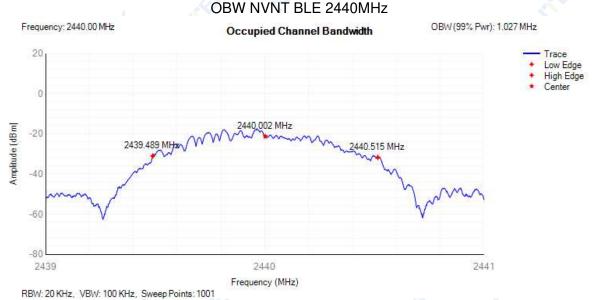




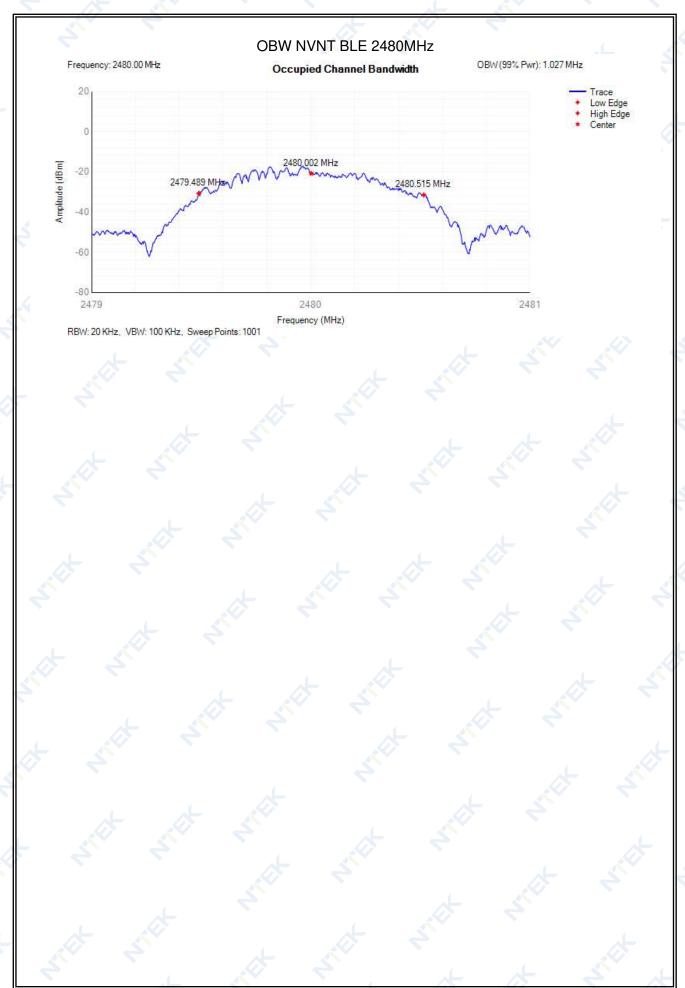


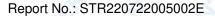
4.3 Occupie	d Chan	nel Bandwidtl	h		4		.4	
Condition	Mode	Frequency (MHz)	Center Frequency (MHz)	OBW (MHz)	Lower Edge (MHz)	Upper Edge (MHz)	Limit OBW (MHz)	Verdict
NVNT	BLE	2402	2402.002	1.027	2401.489	2402.515	2400 - 2483.5MHz	Pass
NVNT	BLE	2440	2440.002	1.027	2439.489	2440.515	2400 - 2483.5MHz	Pass
NVNT	BLE	2480	2480.002	1.027	2479.489	2480.515	2400 - 2483.5MHz	Pass









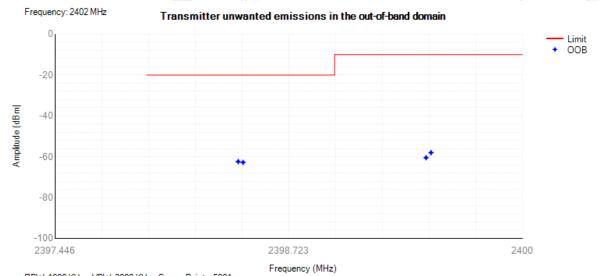




4.4	1 Tra	nsmitt	er unwa	inted emissions	in the out-of-band do	main
	•			Frequency	OOB Frequency	

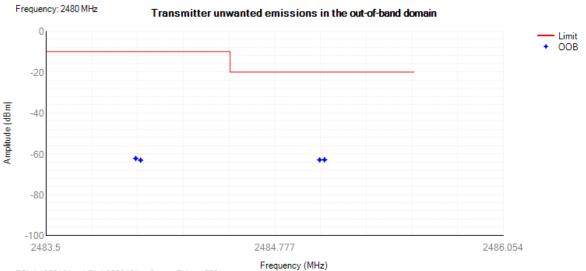
Condition	Mode	Frequency (MHz)	OOB Frequency (MHz)	Level (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	BLE	2402	2399.5	-58	-10	Pass
	4					газэ
NVNT	BLE	2402	2399.473	-60.46	-10	Pass
NVNT	BLE	2402	2398.473	-62.76	-20	Pass
NVNT	BLE	2402	2398.446	-62.37	-20	Pass /
NVNT	BLE	2480	2484	-62.31	-10	Pass
NVNT	BLE	2480	2484.027	-63.16	-10	Pass
NVNT	BLE	2480	2485.027	-62.99	-20	Pass
NVNT	BLE	2480	2485.054	-62.94	-20	Pass

Tx. Emissions OOB NVNT BLE 2402MHz



RBW: 1000 KHz, VBW: 3000 KHz, Sweep Points: 5001

Tx. Emissions OOB NVNT BLE 2480MHz

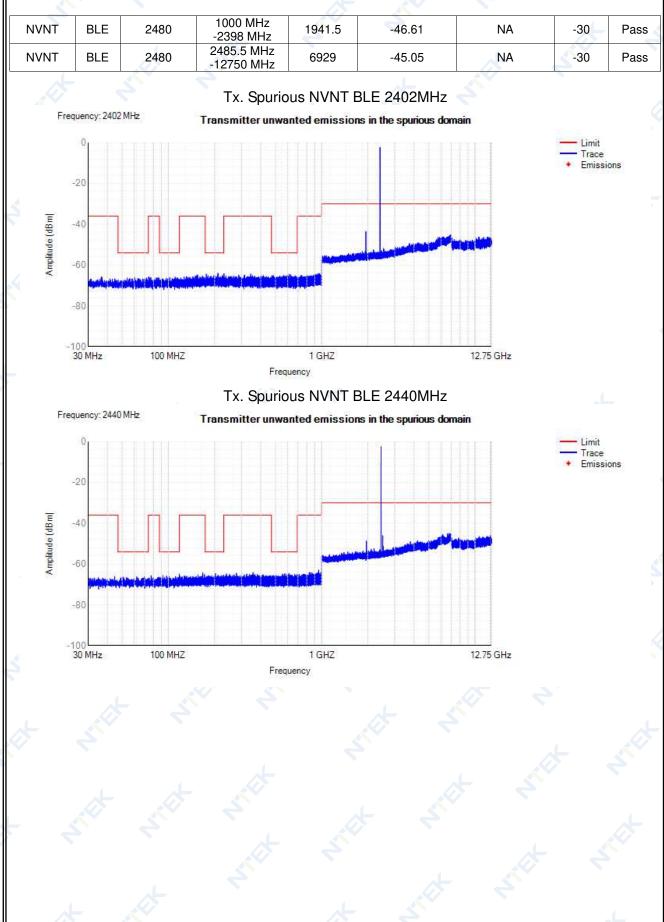


RBW: 1000 KHz, VBW: 3000 KHz, Sweep Points: 5001

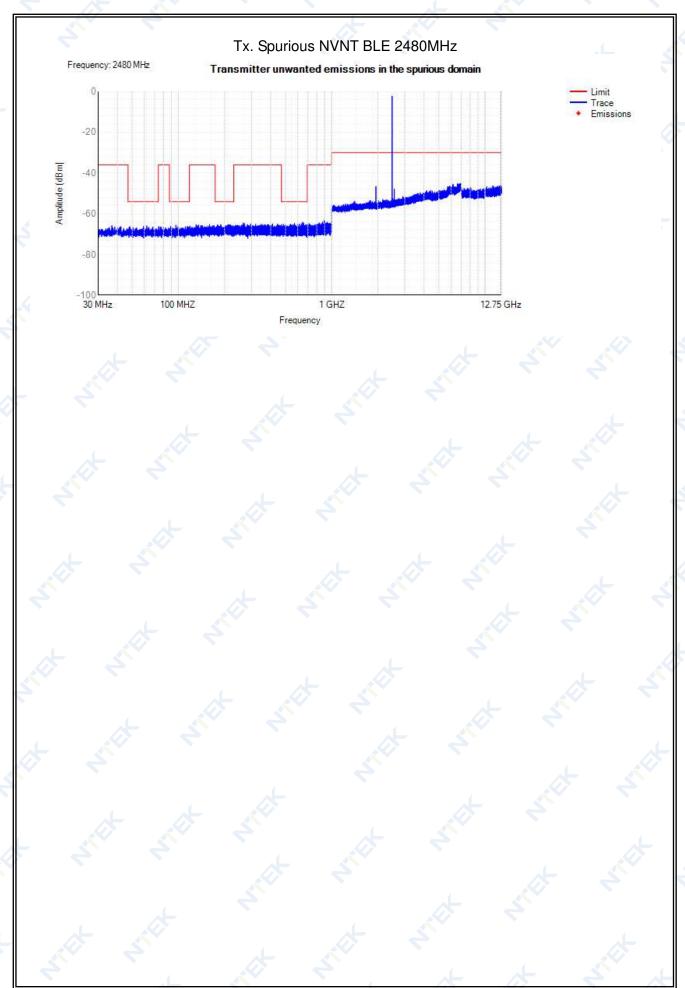
Condition	Mode	Frequency (MHz)	Range	Spur Freq (MHz)	Spur Level Peak(dBm)	Spur Level RMS(dBm)	Limit (dBm)	Verdict
NVNT	BLE	2402	30 MHz -47 MHz	36.5	-65.8	NA	-36	Pass
NVNT	BLE	2402	47 MHz -74 MHz	60.25	-66.03	NA	-54	Pass
NVNT	BLE	2402	74 MHz -87.5 MHz	74.3	-65.73	NA	-36	Pass
NVNT	BLE	2402	87.5 MHz -118 MHz	110.7	-65.89	NA S	-54	Pass
NVNT	BLE	2402	118 MHz -174 MHz	155.15	-64.8	NA	-36	Pass
NVNT	BLE	2402	174 MHz -230 MHz	210.65	-64.01	NA	-54	Pass
NVNT	BLE	2402	230 MHz -470 MHz	230.7	-64.17	NA NA	-36	Pass
NVNT	BLE	2402	470 MHz -694 MHz	613.7	-64.45	NA	-54	Pass
NVNT	BLE	2402	694 MHz -1000 MHz	961.1	-64.13	NA	-36	Pass
NVNT	BLE	2402	1000 MHz -2398 MHz	1941	-43.5	NA	-30	Pass
NVNT	BLE	2402	2485.5 MHz -12750 MHz	6970.5	-44.77	NA	-30	Pass
NVNT	BLE	2440	30 MHz -47 MHz	44.65	-66.02	NA	-36	Pass
NVNT	BLE	2440	47 MHz -74 MHz	62.2	-66.23	NA	-54	Pass
NVNT	BLE	2440	74 MHz -87.5 MHz	77.2	-65.62	NA	-36	Pass
NVNT	BLE	2440	87.5 MHz -118 MHz	117.8	-64.9	NA	-54	Pass
NVNT	BLE	2440	118 MHz -174 MHz	167.6	-64.28	NA	-36	Pass
NVNT	BLE	2440	174 MHz -230 MHz	202.75	-64.53	NA	-54	Pass
NVNT	BLE	2440	230 MHz -470 MHz	356.65	-64.12	NA	-36	Pass
NVNT	BLE	2440	470 MHz -694 MHz	573.45	-64.57	NA	-54	Pass
NVNT	BLE	2440	694 MHz -1000 MHz	955.65	-62.89	NA	-36	Pass
NVNT	BLE	2440	1000 MHz -2398 MHz	1957.5	-48.68	NA	-30	Pass
NVNT	BLE	2440	2485.5 MHz -12750 MHz	6784.5	-44.91	NA	-30	Pass
NVNT	BLE	2480	30 MHz -47 MHz	36.8	-65.81	NA S	-36	Pass
NVNT	BLE	2480	47 MHz -74 MHz	62.2	-65.92	NA	-54	Pass
NVNT	BLE	2480	74 MHz -87.5 MHz	74.4	-66.25	NA	-36	Pass
NVNT	BLE	2480	87.5 MHz -118 MHz	96.3	-65.55	_ NA	-54	Pass
NVNT	BLE	2480	118 MHz -174 MHz	159.75	-65.2	NA	-36	Pass
NVNT	BLE	2480	174 MHz -230 MHz	189	-65.25	NA	-54	Pass
NVNT	BLE	2480	230 MHz -470 MHz	264.75	-64.45	NA	-36	Pass
NVNT	BLE	2480	470 MHz -694 MHz	646.8	-64.05	NA	-54	Pass
NVNT	BLE	2480	694 MHz -1000 MHz	893.85	-63.04	NA	-36	Pass



1000 MHz **NVNT** BLE 2480 1941.5 NA -30 -46.61 **Pass** -2398 MHz 2485.5 MHz NVNT 2480 -45.05 NA **BLE** 6929 -30 Pass -12750 MHz



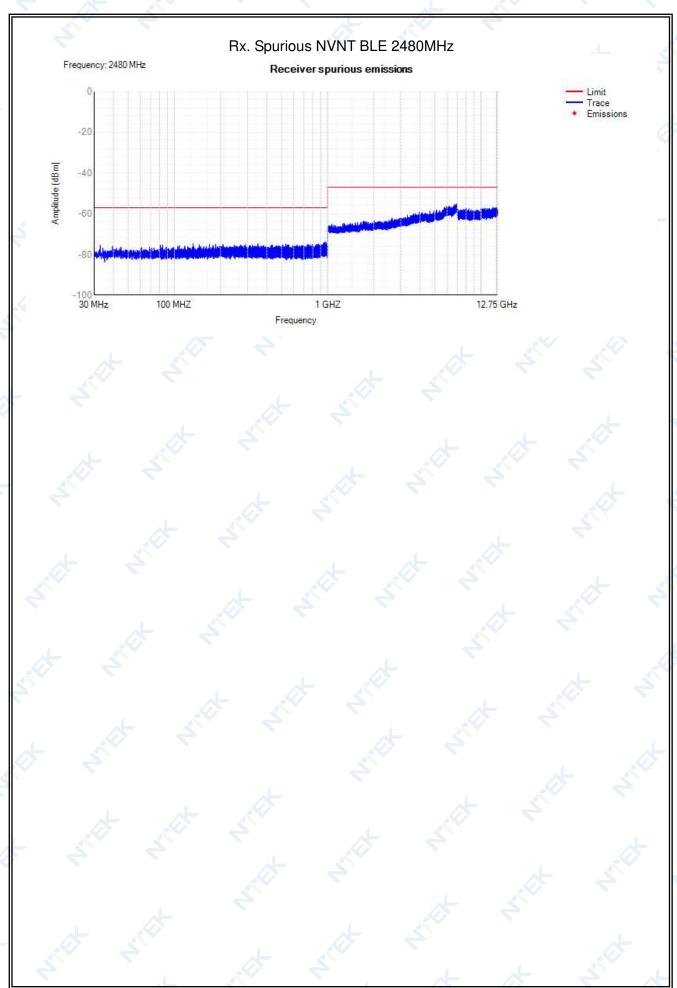


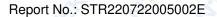




	dition	Mode	Frequency	Range	Spur Freq	Spur Level	Spur Level	Limit	Verdict
	VNT	BLE	(MHz) 2402	30 MHz	(MHz) 933.749	Peak(dBm) -73.23	RMS(dBm)	(dBm) -57	Pass
INV	VIVI	DLE	2402	-1000 MHz 1000 MHz	933.749	-73.23	INA	-57	F a 5 5
NV	VNT	BLE	2402	-12750 MHz	6964	-54.73	NA	-47	Pass
NV	VNT	BLE	2440	30 MHz -1000 MHz 1000 MHz	885.35	-73.99	NA	-57	Pass
NV	VNT	BLE	2440	-12750 MHz	6900	-54.6	NA	-47	Pass
NV	√NT	BLE	2480	30 MHz -1000 MHz	973.95	-73.83	NA	-57	Pass
NV	√NT	BLE	2480	1000 MHz -12750 MHz	6965.5	-54.97	NA NA	-47	Pass
									e ssions
		0		, nect	eiver spurious (Limi	e
	-2	0							
de íd8ml									
Amplitude (48 m)		0							
Amplinde (dBm)	lшgp] −4 −6	0							
Amplinde (dBm)	-4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -	0	100 MHZ		1 GHZ		12.75 GHz		
Amplinde (dBm)	-4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -			Freq	1 GHZ uency				
Amoliude (dBm)	-4 -4 -6 -8 -30 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4		100 MHZ	Rx. Spurio	ous NVNT B	BLE 2440MHz			
Amoiliude (dBm)	-4 -4 -6 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7	O MHz	100 MHZ	Rx. Spurio	uency	BLE 2440MHz	12.75 G Hz	— Limi	t be
Amplinde (dBm)	-4 -4 -6 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7	0 MHz	100 MHZ	Rx. Spurio	ous NVNT B	BLE 2440MHz	12.75 G Hz	— Limi	t be ssions
~	-4 -4 -6 -6 -8 -10 30 Frequ	0 MHz	100 MHZ	Rx. Spurio	ous NVNT B	BLE 2440MHz	12.75 G Hz	— Limi	e
Amolitude (dBm)	-4 -4 -6 -6 -8 -10 30 Frequ	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100 MHZ	Rx. Spurio	ous NVNT B	BLE 2440MHz	12.75 GHz	— Limi	e
~	-4 -4 -6 -6 -8 -10 30 Frequ	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100 MHZ	Rx. Spurio	ous NVNT B	BLE 2440MHz emissions	12.75 GHz	— Limi	e





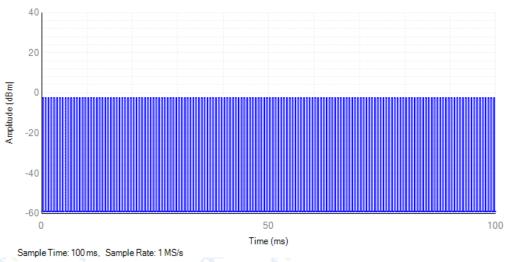




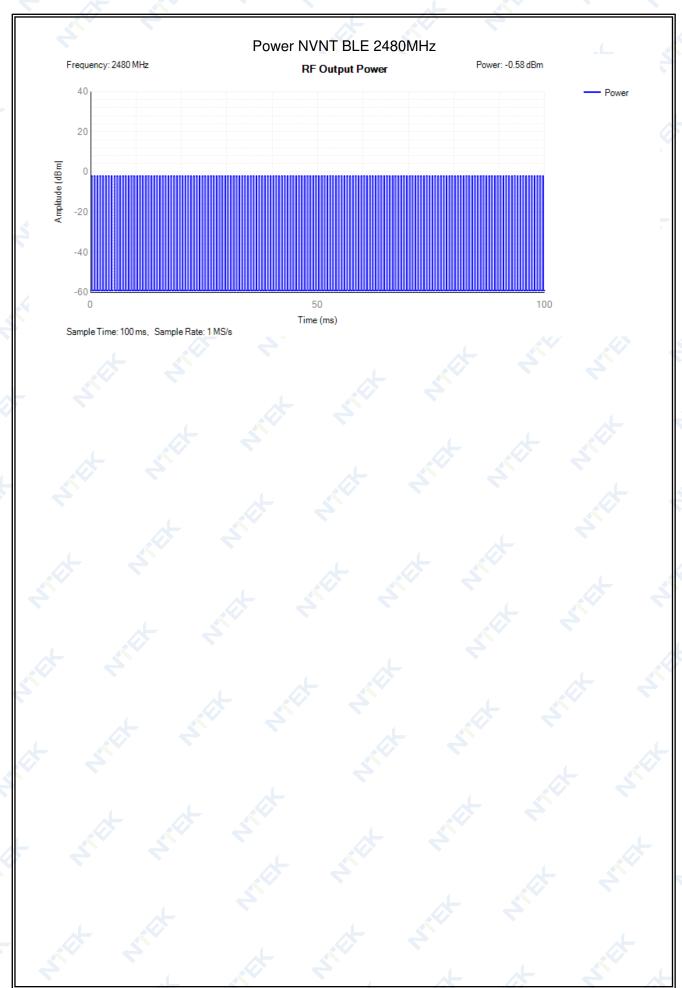
4.1 RF Output Power

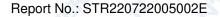
Condition	Mode	Frequency (MHz)	Max Burst RMS Power (dBm)	Burst Number	Max EIRP (dBm)	Limit (dBm)	Verdict
NVNT	BLE	2402	-1.99	161	-0.58	20	Pass
NVNT	BLE	2440	-2.4	160	-0.99	20	Pass
NVNT	BLE	2480	-1.99	160	-0.58	20	Pass
NVLT	BLE	2402	-2.27	161	-0.86	20	Pass
NVLT	BLE	2440	-2.72	160	-1.31	20	Pass
NVLT	BLE	2480	-2.17	160	-0.76	20	Pass
NVHT	BLE	2402	-2.33	161	-0.92	20	Pass
NVHT	BLE	2440	-2.92	160	-1.51	20	Pass
NVHT	BLE	2480	-2.25	160	-0.84	20	Pass







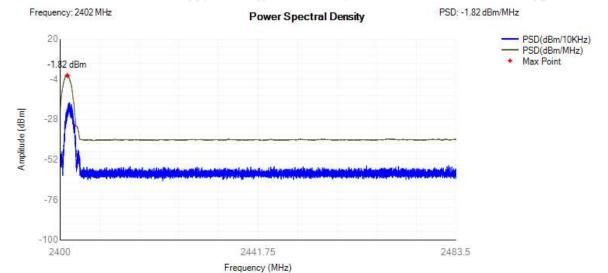






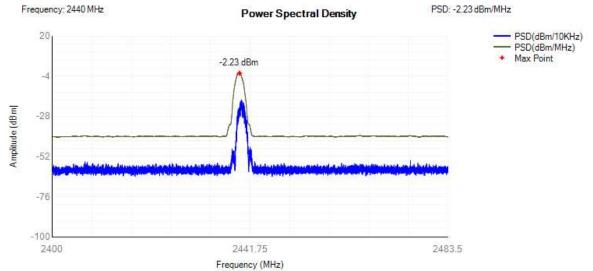
4.2 Power Spectral Density Max PSD (dBm/MHz) Condition Mode Frequency (MHz) Limit (dBm/MHz) Verdict **NVNT** BLE 2402 -1.8210 Pass **NVNT** BLE 2440 -2.23 10 Pass **NVNT** BLE 2480 -1.85 10 **Pass**

PSD NVNT BLE 2402MHz



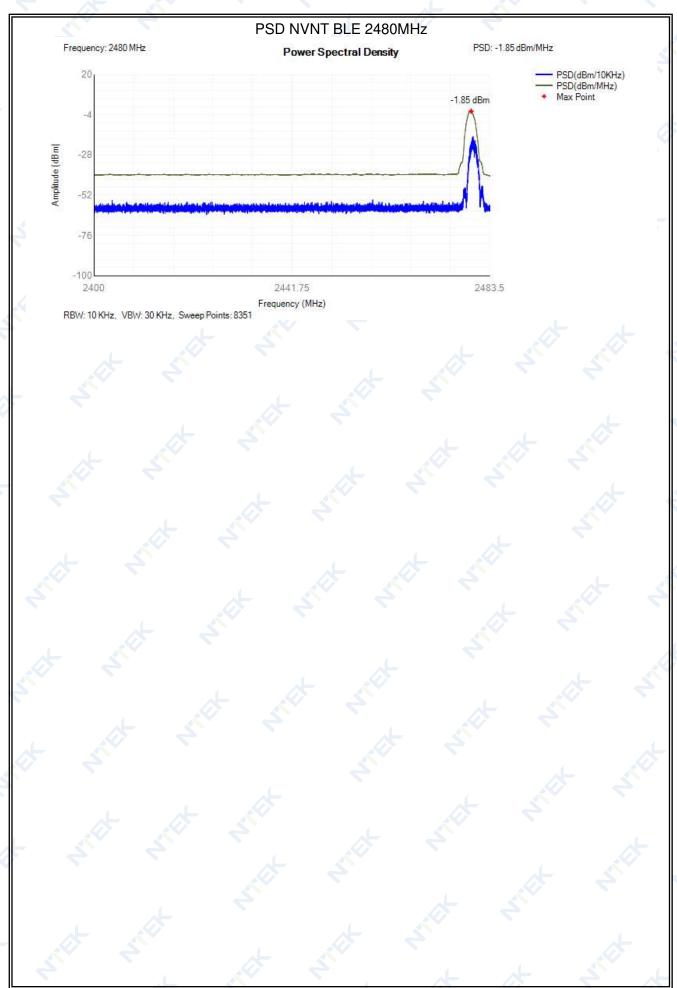
RBW: 10 KHz, VBW: 30 KHz, Sweep Points: 8351

PSD NVNT BLE 2440MHz



RBW: 10 KHz, VBW: 30 KHz, Sweep Points: 8351







Amplitude (dBm

-20

-40

-60

-80 2400

4.3 Occupied Channel Bandwidth Center Lower Upper OBW Frequency Limit OBW Condition Mode Edge Verdict Frequency Edge (MHz) (MHz) (MHz) (MHz) (MHz) (MHz) 2400 -**NVNT BLE** 2402 2402.03 2.05 2401.005 2403.055 **Pass** 2483.5MHz 2400 -NVNT **BLE** 2440 2440.002 2.066 2438.969 2441.035 **Pass** 2483.5MHz 2400 -**NVNT** BLE 2480 2480 2.054 2478.973 2481.027 **Pass** 2483.5MHz

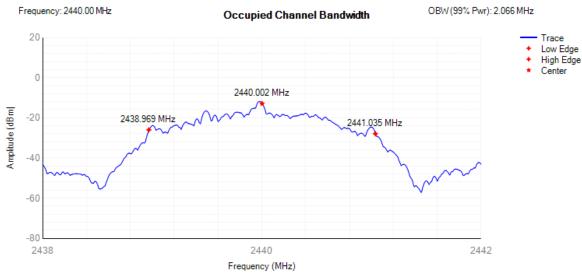
Frequency: 2402.00 MHz Occupied Channel Bandwidth





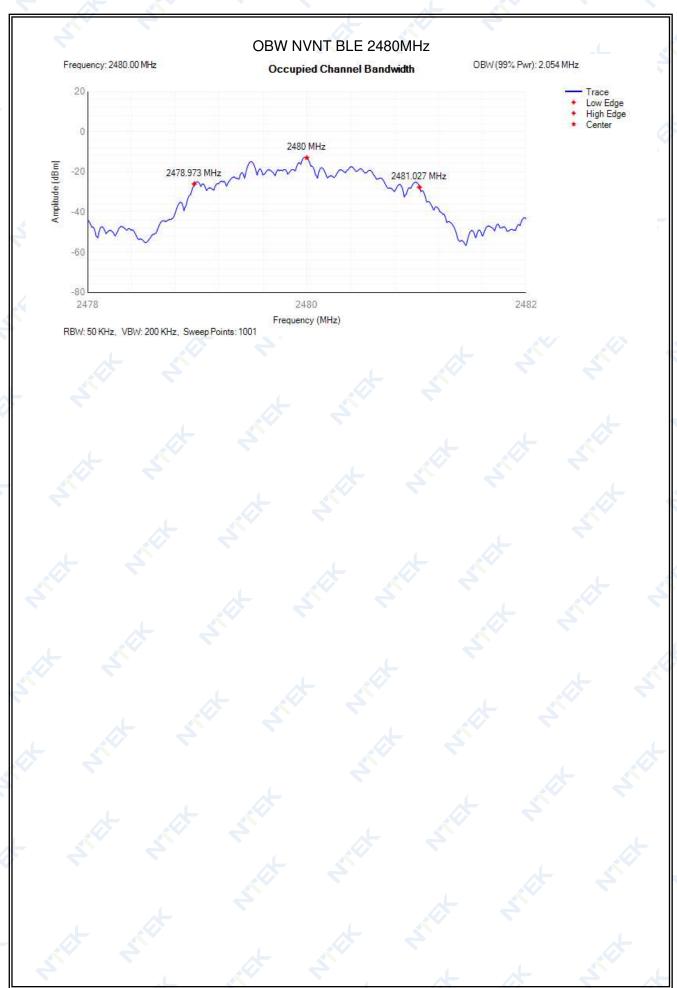
Frequency (MHz) RBW: 50 KHz, VBW: 200 KHz, Sweep Points: 1001

OBW NVNT BLE 2440MHz



RBW: 50 KHz, VBW: 200 KHz, Sweep Points: 1001



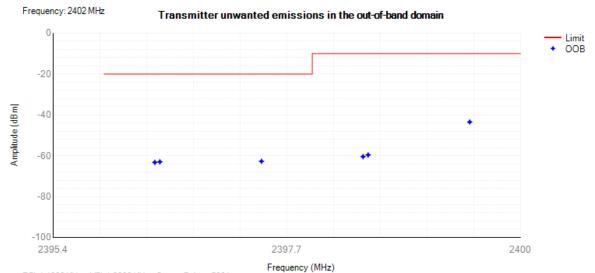






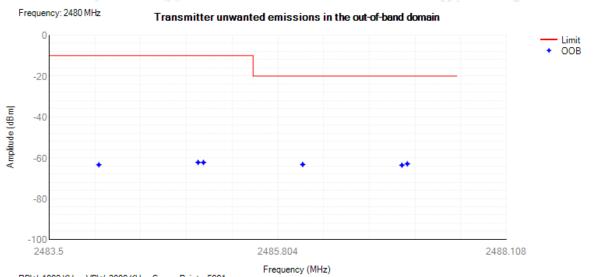
4.4 Transmitter unwanted emissions in the out-of-band domain											
Condition		Frequency	OOB Frequency	Level	Limit	Verdict					
Condition	Mode	(MHz)	(MHz)	(dBm/MHz)	(dBm/MHz)	verdict					
NVNT	BLE	2402	2399.5	-43.47	-10	Pass					
NVNT	BLE	2402	2398.5	-59.6	-10	Pass					
NVNT	BLE	2402	2398.45	-60.42	-10	Pass					
NVNT	BLE	2402	2397.45	-62.71	-20	Pass					
NVNT	BLE	2402	2396.45	-62.97	-20	Pass					
NVNT	BLE	2402	2396.4	-63.24	-20	Pass					
NVNT	BLE	2480	2484	-63.45	-10	Pass					
NVNT	BLE	2480	2485	-62.27	-10	Pass					
NVNT	BLE	2480	2485.054	-62.32	-10	Pass					
NVNT	BLE	2480	2486.054	-63.29	-20	Pass					
NVNT	BLE	2480	2487.054	-63.64	-20	Pass					
NVNT	BLE	2480	2487.108	-62.97	-20	Pass					

Tx. Emissions OOB NVNT BLE 2402MHz



RBW: 1000 KHz, VBW: 3000 KHz, Sweep Points: 5001

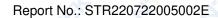
Tx. Emissions OOB NVNT BLE 2480MHz



RBW: 1000 KHz, VBW: 3000 KHz, Sweep Points: 500



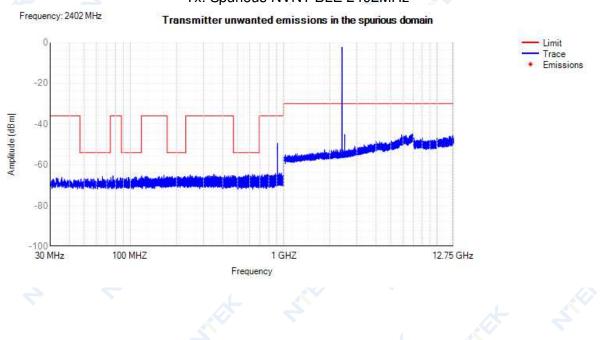
Condition	Mode	Frequency (MHz)	Range	Spur Freq (MHz)	Spur Level Peak(dBm)	Spur Level RMS(dBm)	Limit (dBm)	Verdict
NVNT	BLE	2402	30 MHz -47 MHz	35.75	-66.13	NA	-36	Pass
NVNT	BLE	2402	47 MHz -74 MHz	65.65	-65.74	NA	-54	Pass
NVNT	BLE	2402	74 MHz -87.5 MHz	77	-65.42	NA	-36	Pass
NVNT	BLE	2402	87.5 MHz -118 MHz	108.45	-65.9	NA	-54	Pass
NVNT	BLE	2402	118 MHz -174 MHz	165.55	-65.07	NA	-36	Pass
NVNT	BLE	2402	174 MHz -230 MHz	187.9	-65.64	NA	-54	Pass
NVNT	BLE	2402	230 MHz -470 MHz	350.9	-64.57	NA	-36	Pass
NVNT	BLE	2402	470 MHz -694 MHz	629.15	-64.73	_ NA	-54	Pass
NVNT	BLE	2402	694 MHz -1000 MHz	911.65	-49.4	NA	-36	Pass
NVNT	BLE	2402	1000 MHz -2396 MHz	2194	-52.44	NA	-30	Pass
NVNT	BLE	2402	2487.5 MHz -12750 MHz	6988	-44.61	NA	-30	Pass
NVNT	BLE	2440	30 MHz -47 MHz	39.35	-65.83	NA	-36	Pass
NVNT	BLE	2440	47 MHz -74 MHz	54.7	-66.79	NA	-54	Pass
NVNT	BLE	2440	74 MHz -87.5 MHz	82.4	-66.35	NA	-36	Pass
NVNT	BLE	2440	87.5 MHz -118 MHz	110.95	-66.4	NA	-54	Pass
NVNT	BLE	2440	118 MHz -174 MHz	158.05	-65.09	NA	-36	Pass
NVNT	BLE	2440	174 MHz -230 MHz	191.4	-64.63	NA	-54	Pass
NVNT	BLE	2440	230 MHz -470 MHz	242.2	-64.78	NA	-36	Pass
NVNT	BLE	2440	470 MHz -694 MHz	608.8	-63.85	NA	-54	Pass
NVNT	BLE	2440	694 MHz -1000 MHz	911.6	-44.68	NA NA	-36	Pass
NVNT	BLE	2440	1000 MHz -2396 MHz	2192.5	-53.45	NA	-30	Pass



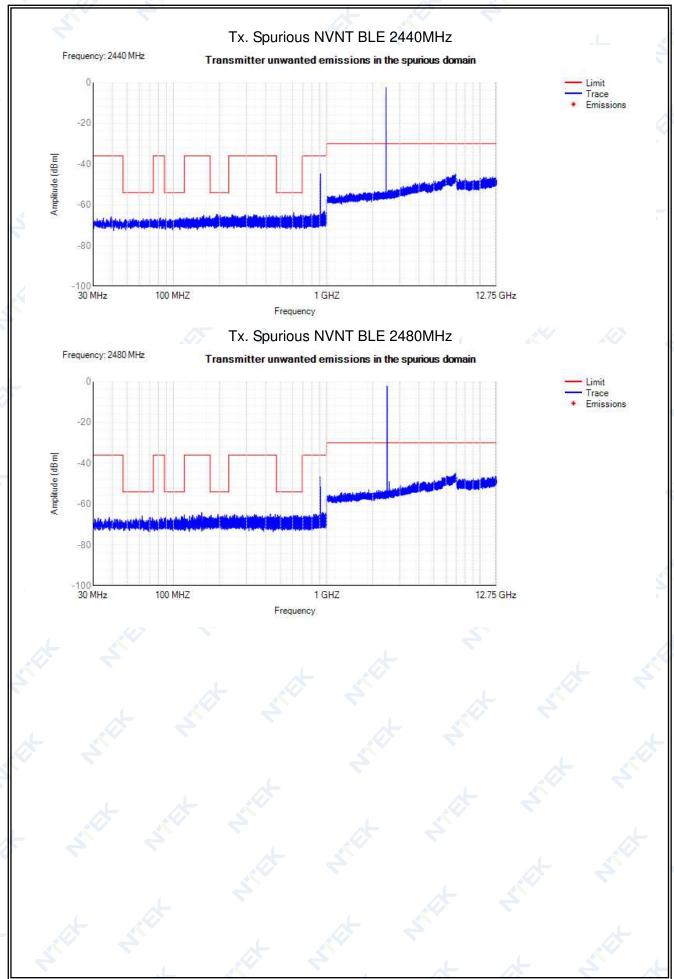


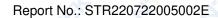
NVNT	BLE	2440	2487.5 MHz -12750 MHz	6958.5	-44.71	NA	-30	Pass
NVNT	BLE	2480	30 MHz -47 MHz	38.2	-66.49	NA	-36	Pass
NVNT	BLE	2480	47 MHz -74 MHz	62.55	-65.87	NA	-54	Pass
NVNT	BLE	2480	74 MHz -87.5 MHz	83.05	-66.58	NA	-36	Pass
NVNT	BLE	2480	87.5 MHz -118 MHz	117.9	-65.19	NA	-54	Pass
NVNT	BLE	2480	118 MHz -174 MHz	153	-64.13	NA	-36	Pass
NVNT	BLE	2480	174 MHz -230 MHz	195.6	-65.04	NA	-54	Pass
NVNT	BLE	2480	230 MHz -470 MHz	429.35	-64.84	NA	-36	Pass
NVNT	BLE	2480	470 MHz -694 MHz	478.6	-65.23	_ NA	-54	Pass
NVNT	BLE	2480	694 MHz -1000 MHz	904.65	-46.45	NA	-36	Pass
NVNT	BLE	2480	1000 MHz -2396 MHz	1886	-52.99	NA	-30	Pass
NVNT	BLE	2480	2487.5 MHz -12750 MHz	6991	-44.45	NA	-30	Pass

Tx. Spurious NVNT BLE 2402MHz





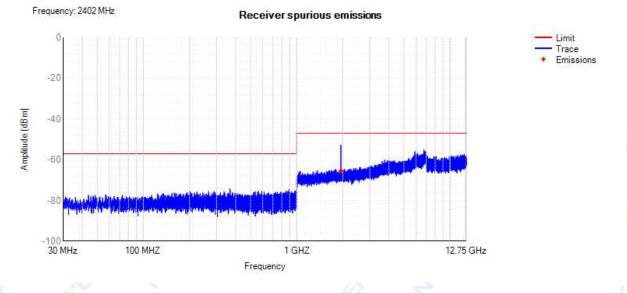




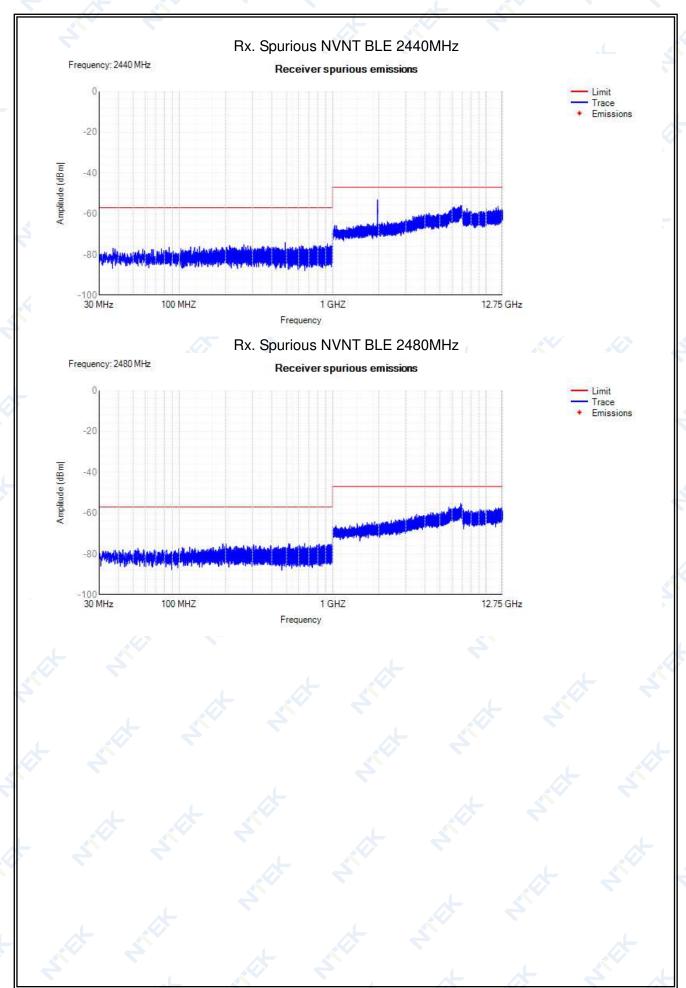


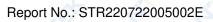
4	.6 Receiver	spuriou	us emissions						
	Condition	Mode	Frequency (MHz)	Range	Spur Freq (MHz)	Spur Level Peak(dBm)	Spur Level RMS(dBm)	Limit (dBm)	Verdict
	NVNT	BLE	2402	30 MHz -1000 MHz	366.85	-74.25	NA	-57	Pass
	NVNT	BLE	2402	1000 MHz -12750 MHz	1941.5	-52.77	-65.38	-47	Pass
	NVNT	BLE	2440	30 MHz -1000 MHz	490.2	-74.11	NA	-57	Pass
	NVNT	BLE	2440	1000 MHz -12750 MHz	1959	-53.08	NA -	-47	Pass
	NVNT	BLE	2480	30 MHz -1000 MHz	657.65	-74.83	NA NA	-57	Pass
<u> </u>	NVNT	BLE	2480	1000 MHz -12750 MHz	6846	-55.27	NA	-47	Pass

Rx. Spurious NVNT BLE 2402MHz





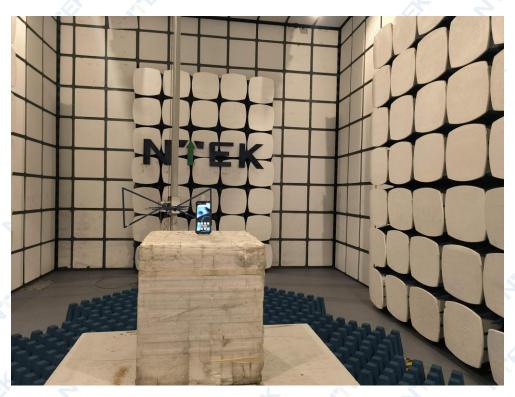






5. EUT TEST PHOTO

SPURIOUS EMISSIONS MEASUREMENT PHOTOS





END OF REPORT