



FCC RADIO TEST REPORT FCC ID: ZSW-30-127

Product: Mobile Phone Trade Mark: Bmobile Model No.: BL52 PRO Family Model: N/A Report No.: S23032100401003 Issue Date: 18 May. 2023

Prepared for

b mobile HK Limited

Flat 18; 14/F Block 1; Golden Industrial Building;16-26 Kwai Tak Street; Kwai Chung; New Territories; Hong Kong, China

Prepared by

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Report No.: S23032100401003

TABLE OF CONTENTS

1 TE	ST RESULT CERTIFICATION	3
2 SU	MMARY OF TEST RESULTS	4
3 FA	CILITIES AND ACCREDITATIONS	5
3.2 3.3	FACILITIES LABORATORY ACCREDITATIONS AND LISTINGS MEASUREMENT UNCERTAINTY	5 5
4 GE	NERAL DESCRIPTION OF EUT	6
	SCRIPTION OF TEST MODES	
6 SE'	TUP OF EQUIPMENT UNDER TEST	10
6.1 6.2 6.3	BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM SUPPORT EQUIPMENT EQUIPMENTS LIST FOR ALL TEST ITEMS	11
7 TE	ST REQUIREMENTS	14
7.1 7.2 7.3 7.4 7.5 7.6 7.7 7.8 7.9	CONDUCTED EMISSIONS TEST RADIATED SPURIOUS EMISSION	17 26 28 29 31 32 33 34
8 TE	ST RESULTS	
8.1 8.2 8.3 8.4 8.5 8.6 8.7	DUTY CYCLE	41 42 48 54 60



TEST RESULT

Complied

1 TEST RESULT CERTIFICATION

Applicant's name:	b mobile HK Limited		
Address:	Flat 18; 14/F Block 1; Golden Industrial Building;16-26 Kwai Tak Street; Kwai Chung; New Territories; Hong Kong, China		
Manufacturer's Name	b mobile HK Limited		
Address:	Flat 18; 14/F Block 1; Golden Industrial Building;16-26 Kwai Tak Street; Kwai Chung; New Territories; Hong Kong, China		
Product description			
Product name:	Mobile Phone		
Model and/or type reference:	BL52 PRO		
Family Model:	N/A		
Test sample number	S230321004001		

Measurement Procedure Used:

APPLICABLE STANDARDS

APPLICABLE STANDARD/ TEST PROCEDURE FCC 47 CFR Part 2, Subpart J

FCC 47 CFR Part 15, Subpart C

ANSI C63.10-2013

KDB 558074 D01 15.247 Meas Guidance v05r02

This device described above has been tested by Shenzhen NTEK Testing Technology Co., Ltd., and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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The test results of this report relate only to the tested sample identified in this report.

Date of Test	: 29 Mar. 2023 ~ 18 May. 2023
Testing Engineer	Aven lin
	(Allen Liu)
Authorized Signatory	Ales
	(Alex Li)





2 SUMMARY OF TEST RESULTS

	<u>^</u>					
FCC Part15 (15.247), Subpart C						
Test Item	Verdict	Remark				
Conducted Emission	PASS					
6dB Bandwidth	PASS					
Maximum Output Power	PASS					
Radiated Spurious Emission	PASS					
Power Spectral Density	PASS					
Band Edge Emission	PASS					
Spurious RF Conducted Emission	PASS					
Antenna Requirement	PASS					
	Test Item Conducted Emission 6dB Bandwidth Maximum Output Power Radiated Spurious Emission Power Spectral Density Band Edge Emission Spurious RF Conducted Emission	Conducted EmissionPASS6dB BandwidthPASSMaximum Output PowerPASSRadiated Spurious EmissionPASSPower Spectral DensityPASSBand Edge EmissionPASSSpurious RF Conducted EmissionPASS				

Remark:

1. "N/A" denotes test is not applicable in this Test Report.

2. All test items were verified and recorded according to the standards and without any deviation during the test.

 This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



3 FACILITIES AND ACCREDITATIONS

3.1 FACILITIES

All measurement facilities used to collect the measurement data are located at 1/F, Building E, Fenda Science Park Sanwei, Xixiang, Bao'an District Shenzhen, Guangdong, China The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

3.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description	
CNAS-Lab.	: The Certificate Registration Number is L5516.
IC-Registration	The Certificate Registration Number is 9270A.
	CAB identifier:CN0074
FCC- Accredited	Test Firm Registration Number: 463705.
	Designation Number: CN1184
A2LA-Lab.	The Certificate Registration Number is 4298.01
Name of Firm	: Shenzhen NTEK Testing Technology Co., Ltd.
Site Location	: 1/F, Building E, Fenda Science Park Sanwei, Xixiang, Bao'an District
	Shenzhen, Guangdong, China

3.3 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	Conducted Emission Test	±1.38dB
2	RF power, conducted	±0.16dB
3	Spurious emissions, conducted	±0.21dB
4	All emissions, radiated(<1G)	±4.68dB
5	All emissions, radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%



4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification					
Equipment	Mobile Phone				
Trade Mark	Bmobile				
FCC ID	ZSW-30-127				
Model No.	BL52 PRO				
Family Model	N/A				
Model Difference	N/A				
Operating Frequency	2412-2462MHz for 802.11b/g/11n(HT20);				
Modulation	DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n;				
Number of Channels 11 channels for 802.11b/g/11n(HT20);					
Antenna Type	PIFA Antenna				
Antenna Gain	0.83dBi				
Power supply	DC 3.8V/2500mAh from battery or DC 5V from Adapter.				
Adapter INPUT: AC 100-240V~50-60Hz 0.2A OUTPUT: DC 5.0V1A					
HW Version	Bmobile_BL52Pro_HW_V001				
SW Version	Bmobile_BL52Pro_TEM_MX_V001				

Note: Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.





Revision History

Revision History					
Report No.	Version	Description	Issued Date		
S23032100401003	Rev.01	Initial issue of report	18 May. 2023		



5 DESCRIPTION OF TEST MODES

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

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (802.11b: 1 Mbps; 802.11g: 6 Mbps; 802.11n (HT20): MCS0;) were used for all test.

The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement -X, Y, and Z-plane. The Y-plane results were found as the worst case and were shown in this report.

Frequency and Channel list for 802.11b/g/n (HT20):

Channel	Frequency(MHz)
1	2412
2	2417
5	2432
6	2437
10	2457
11	2462

Note: fc=2412MHz+(k-1)×5MHz k=1 to 11

EUT built-in battery-powered, the battery is fully-charged.



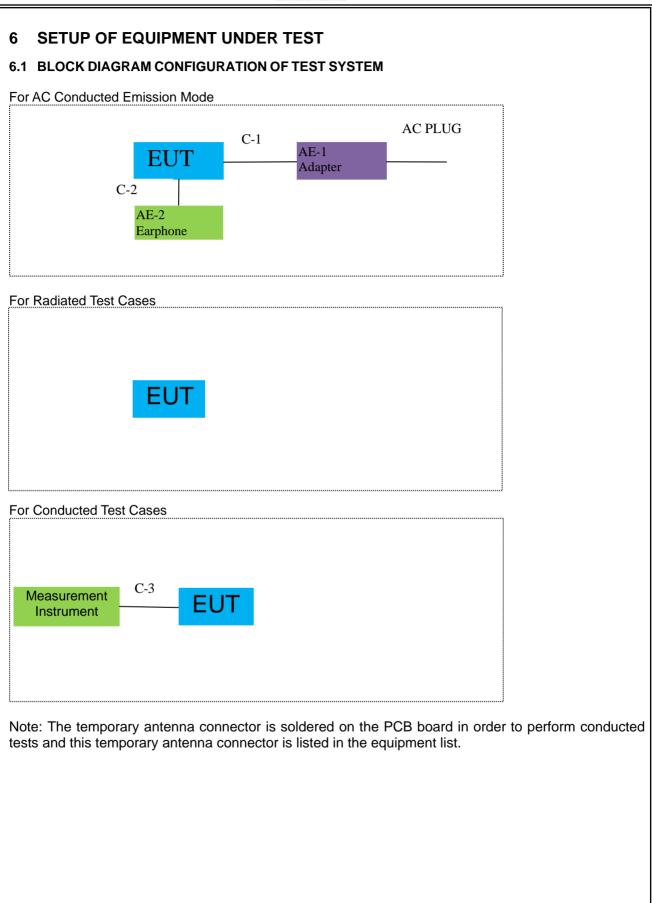


Report No.: S23032100401003

Test Mode:					
Test Items	Mode	Data Rate	Channel	Ant	
AC Power Line Conducted Emissions	Normal Link	-	-	-	
	11b/CCK	1 Mbps	1/6/11	1	
Maximum Conducted Output Power	11g/BPSK	6 Mbps	1/6/11	1	
Power	11n HT20	MCS0	1/6/11	1	
Power Spectral Density	11b/CCK	1 Mbps	1/6/11	1	
r ower opeoral Density	11g/BPSK	6 Mbps	1/6/11	1	
	11n HT20	MCS0	1/6/11	1	
6dB Spectrum Bandwidth	11b/CCK	1 Mbps	1/6/11	1	
	11g/BPSK	6 Mbps	1/6/11	1	
	11n HT20	MCS0	1/6/11	1	
Radiated Emissions Below 1GHz	Normal Link	-	-	-	
Radiated Emissions Above	11b/CCK	1 Mbps	1/6/11	1	
IGHZ	11g/BPSK	6 Mbps	1/6/11	1	
	11n HT20	MCS0	1/6/11	1	
Band Edge Emissions	11b/CCK	1 Mbps	1/6/11	1	
	11g/BPSK	6 Mbps	1/6/11	1	
	11n HT20	MCS0	1/6/11	1	

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6.2 SUPPORT EQUIPMENT

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
AE-1	Adapter	N/A	N/A	Peripherals
AE-2	Earphone	N/A	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	USB Cable	YES	NO	1.0m
C-2	Earphone Cable	NO	NO	1.2m
C-3	RF Cable	YES	NO	0.1m

Notes:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in [Length] column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".

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Report No.: S23032100401003

6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test equipment

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Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibrati on period
1	Spectrum Analyzer	Aglient	E4407B	MY45108040	2023.03.27	2024.03.26	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2022.06.17	2023.06.16	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2023.03.27	2024.03.26	1 year
4	Test Receiver	R&S	ESPI7	101318	2023.03.27	2024.03.26	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2023.03.27	2024.03.26	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2020.05.11 2023.05.06	2023.05.10 2026.05.05	3 year
7	Horn Antenna	EM	EM-AH-1018 0	2011071402	2023.03.27	2024.03.26	1 year
8	Broadband Horn Antenna	SCHWARZBE CK	BBHA 9170	803	2022.11.08	2023.11.07	1 year
9	Amplifier	EMC	EMC051835 SE	980246	2022.06.17	2023.06.16	1 year
10	Active Loop Antenna	SCHWARZBE CK	FMZB 1519 B	055	2022.11.08	2023.11.07	1 year
11	Power Meter	DARE	RPR3006W	15I00041SN 084	2022.11.08	2023.11.07	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2020.05.11 2023.05.06	2023.05.10 2026.05.05	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2020.05.11 2023.05.06	2023.05.10 2026.05.05	3 year
14	High Test Cable(1G-40G Hz)	N/A	R-03	N/A	2022.06.17	2025.06.16	3 year
15	Filter	TRILTHIC	2400MHz	29	2022.11.08	2023.11.07	1 year
16	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





AC Co	AC Conduction Test equipment						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2023.03.27	2024.03.26	1 year
2	LISN	R&S	ENV216	101313	2023.03.27	2024.03.26	1 year
3	LISN	SCHWARZBE CK	NNLK 8129	8129245	2023.03.27	2024.03.26	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2020.05.11 2023.05.06	2023.05.10 2026.05.05	3 year
5	Test Cable (9KHz-30MH z)	N/A	C01	N/A	2020.05.11 2023.05.06	2023.05.10 2026.05.05	3 year
6	Test Cable (9KHz-30MH z)	N/A	C02	N/A	2020.05.11 2023.05.06	2023.05.10 2026.05.05	3 year
7	Test Cable (9KHz-30MH z)	N/A	C03	N/A	2020.05.11 2023.05.06	2023.05.10 2026.05.05	3 year

Note: Each piece of equipment is scheduled for calibration once a year except the Aux Equipment & Test Cable which is scheduled for calibration every 2 or 3 years.



7 TEST REQUIREMENTS

7.1 CONDUCTED EMISSIONS TEST

7.1.1 Applicable Standard

According to FCC Part 15.207(a)

7.1.2 Conformance Limit

Frequency (MHz)	Conducted Emission Limit		
Frequency(MHz)	Quasi-peak	Average	
0.15-0.5	66-56*	56-46*	
0.5-5.0	56	46	
5.0-30.0	60	50	

Note: 1. *Decreases with the logarithm of the frequency

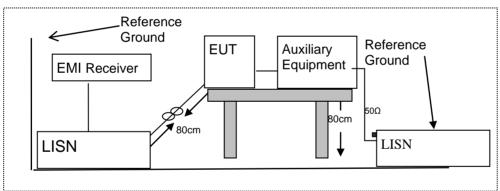
2. The lower limit shall apply at the transition frequencies

3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

7.1.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.1.4 Test Configuration



7.1.5 Test Procedure

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
- 2. The EUT was placed on a table which is 0.8m above ground plane.
- 3. Connect EUT to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 4. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40cm long.
- 5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- 6. LISN at least 80 cm from nearest part of EUT chassis.
- 7. The frequency range from 150KHz to 30MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth(IF bandwidth=9KHz) with Maximum Hold Mode
- 9. For the actual test configuration, please refer to the related Item –EUT Test Photos.





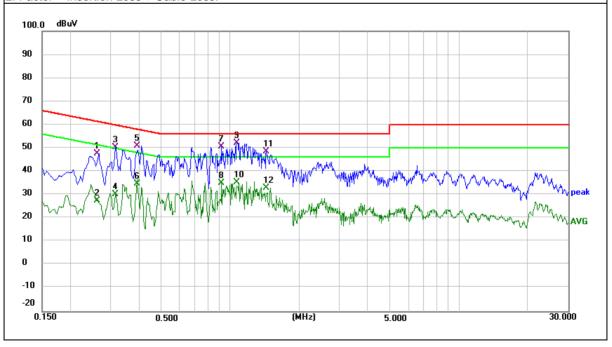
7.1.6 Test Results

EUT:	Mobile Phone	Model Name :	BL52 PRO
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	L
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Normal Link

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Demerile
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.2620	37.59	10.16	47.75	61.37	-13.62	QP
0.2620	17.48	10.16	27.64	51.37	-23.73	AVG
0.3140	39.97	10.26	50.23	59.86	-9.63	QP
0.3140	20.00	10.26	30.26	49.86	-19.60	AVG
0.3914	40.61	10.42	51.03	58.03	-7.00	QP
0.3914	24.39	10.42	34.81	48.03	-13.22	AVG
0.9180	39.19	11.50	50.69	56.00	-5.31	QP
0.9180	23.56	11.50	35.06	46.00	-10.94	AVG
1.0660	40.50	11.80	52.30	56.00	-3.70	QP
1.0660	23.40	11.80	35.20	46.00	-10.80	AVG
1.4380	35.91	12.54	48.45	56.00	-7.55	QP
1.4380	20.37	12.54	32.91	46.00	-13.09	AVG

Remark:

All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.







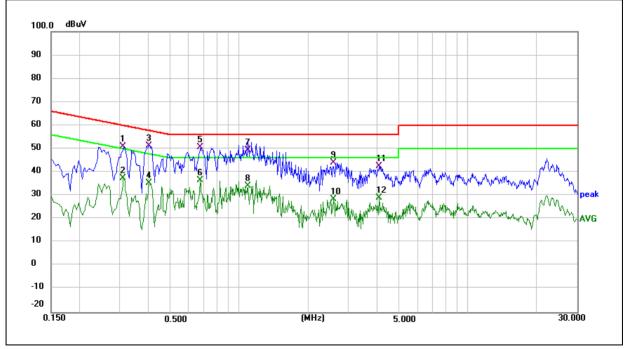
EUT:	Mobile Phone	Model Name :	BL52 PRO
Temperature:	24 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	N
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Normal Link

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.3100	40.62	10.26	50.88	59.97	-9.09	QP
0.3100	27.30	10.26	37.56	49.97	-12.41	AVG
0.4020	40.85	10.45	51.30	57.81	-6.51	QP
0.4020	24.98	10.45	35.43	47.81	-12.38	AVG
0.6740	39.64	10.99	50.63	56.00	-5.37	QP
0.6740	25.43	10.99	36.42	46.00	-9.58	AVG
1.0900	37.66	11.84	49.50	56.00	-6.50	QP
1.0900	22.37	11.84	34.21	46.00	-11.79	AVG
2.5860	34.37	9.67	44.04	56.00	-11.96	QP
2.5860	18.64	9.67	28.31	46.00	-17.69	AVG
4.0900	32.75	9.67	42.42	56.00	-13.58	QP
4.0900	19.26	9.67	28.93	46.00	-17.07	AVG

Remark:

1. All readings are Quasi-Peak and Average values.

2. Factor = Insertion Loss + Cable Loss.





7.2 RADIATED SPURIOUS EMISSION

7.2.1 Applicable Standard

According to FCC Part 15.247(d) and 15.209 and ANSI C63.10-2013

7.2.2 Conformance Limit

According to FCC Part 15.247(d): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)). According to FCC Part15.205, Restricted bands

According to FOC Fait 13.203, Restricted bands				
MHz	MHz	GHz		
16.42-16.423	399.9-410	4.5-5.15		
16.69475-16.69525	608-614	5.35-5.46		
16.80425-16.80475	960-1240	7.25-7.75		
25.5-25.67	1300-1427	8.025-8.5		
37.5-38.25	1435-1626.5	9.0-9.2		
73-74.6	1645.5-1646.5	9.3-9.5		
74.8-75.2	1660-1710	10.6-12.7		
123-138	2200-2300	14.47-14.5		
149.9-150.05	2310-2390	15.35-16.2		
156.52475-156.52525	2483.5-2500	17.7-21.4		
156.7-156.9	2690-2900	22.01-23.12		
162.0125-167.17	3260-3267	23.6-24.0		
167.72-173.2	3332-3339	31.2-31.8		
240-285	3345.8-3358	36.43-36.5		
322-335.4	3600-4400	(2)		
	MHz 16.42-16.423 16.69475-16.69525 16.80425-16.80475 25.5-25.67 37.5-38.25 73-74.6 74.8-75.2 123-138 149.9-150.05 156.52475-156.52525 156.7-156.9 162.0125-167.17 167.72-173.2 240-285	MHzMHz16.42-16.423399.9-41016.69475-16.69525608-61416.80425-16.80475960-124025.5-25.671300-142737.5-38.251435-1626.573-74.61645.5-1646.574.8-75.21660-1710123-1382200-2300149.9-150.052310-2390156.52475-156.525252483.5-2500156.7-156.92690-2900162.0125-167.173260-3267167.72-173.23332-3339240-2853345.8-3358		

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

Restricted Frequency(MHz)	Field Strength (µV/m)	Field Strength (dBµV/m)	Measurement Distance
0.009~0.490	2400/F(KHz)	20 log (uV/m)	300
0.490~1.705	24000/F(KHz)	20 log (uV/m)	30
1.705~30.0	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Limits of Radiated Emission Measurement(Above 1000MHz)

Fraguanay (MHz)	Class B (dBuV/	/m) (at 3M)
Frequency(MHz)	PEAK	AVERAGE
Above 1000	74	54

Remark :1. Emission level in dBuV/m=20 log (uV/m)

2. Measurement was performed at an antenna to the closed point of EUT distance of meters.

3. For Frequency 9kHz~30MHz:

Distance extrapolation factor =40log(Specific distance/ test distance)(dB);

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

For Frequency above 30MHz:

Distance extrapolation factor =20log(Specific distance/ test distance)(dB);

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



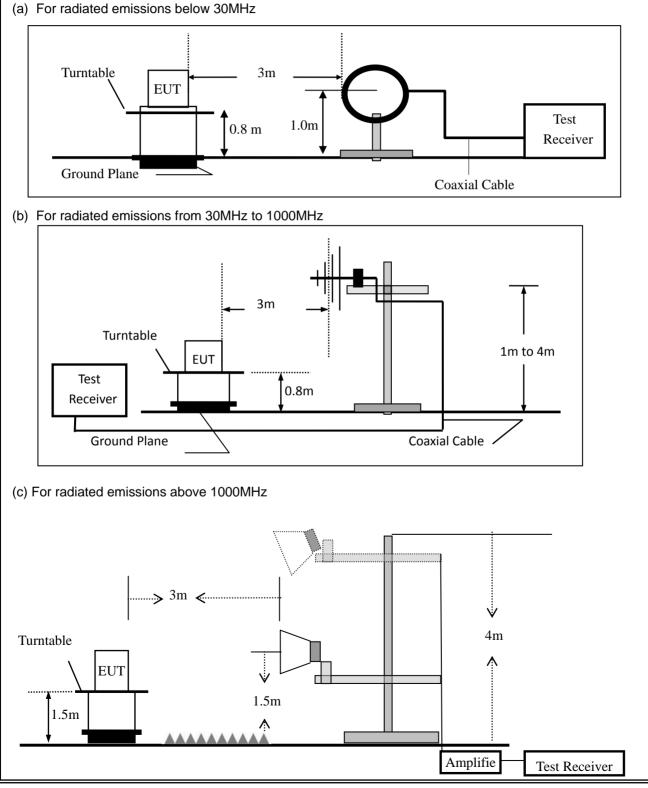


7.2.3 **Measuring Instruments**

The Measuring equipment is listed in the section 6.3 of this test report.

Test Configuration 7.2.4

(a) For radiated emissions below 30MHz





7.2.5 Test Procedure

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2013. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

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

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

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz and frequencies above 1GHz,
- b. The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For the radiated emission test above 1GHz: Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- e. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- f. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- g For the actual test configuration, please refer to the related Item –EUT Test Photos.
 - Note:

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

During the radiated emission test, the Spectrum Analyzer was set with the following configurations: For peak measurement:

Set RBW=120 kHz for f < 1 GHz; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold; Set RBW = 1 MHz, VBW= 3MHz for f≥1 GHz

For average measurement:

VBW = 10 Hz, when duty cycle is no less than 98 percent.

VBW \geq 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.





Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where RBWCF [dB] = 10^{10} (100 [kHz]/narrower RBW [kHz])., the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

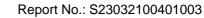
7.2.6 Test Results

■ Spurious Emission below 30MHz (9KHz to 30MHz)

EUT:	Mobile Phone	Model No.:	BL52 PRO
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	802.11b/g/n(HT20,)	Test By:	Allen Liu

Freq.	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
(MHz)	H/V	PK	AV	PK	AV	PK	AV

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.







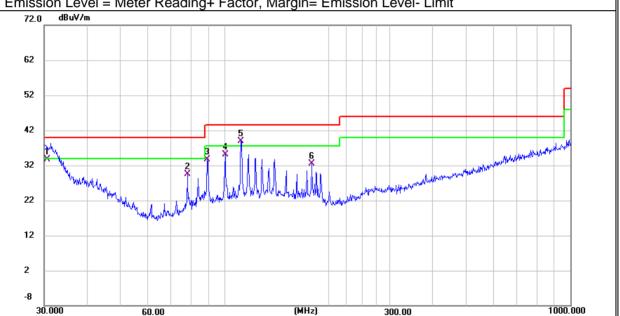
Spurious Emission below 1GHz (30MHz to 1GHz) All the modulation modes have been tested, and the worst result was report as below:

EUT:	Mobile Phone	Model Name :	BL52 PRO
Temperature:	24 ℃	Relative Humidity:	53%
Pressure:	1010hPa	Test Mode:	Normal Link
Test Voltage :	DC 3.8V		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	30.6988	7.53	26.08	33.61	40.00	-6.39	QP
V	77.8654	14.43	15.00	29.43	40.00	-10.57	QP
V	88.9639	17.03	16.61	33.64	43.50	-9.86	QP
V	100.2286	17.45	17.70	35.15	43.50	-8.35	QP
V	111.3468	20.50	18.39	38.89	43.50	-4.61	QP
V	178.1327	15.43	17.04	32.47	43.50	-11.03	QP

Remark:

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







Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Roman
Н	89.2764	22.47	16.65	39.12	43.50	-4.38	QP
Н	100.5806	21.72	17.73	39.45	43.50	-4.05	QP
Н	111.7380	19.68	18.42	38.10	43.50	-5.40	QP
Н	139.3613	18.05	18.71	36.76	43.50	-6.74	QP
Н	161.4742	21.76	17.97	39.73	43.50	-3.77	QP
Н	184.4898	21.87	16.68	38.55	43.50	-4.95	QP
72.0	on Level = Meter dBuV/m						
62							
52							-6
42		1 2 X X	3 4 ×				
32	the the second sec				manghamadream drawadaa Meerin	werther Widel and Mitchield South	
22	the second second second second	Jul And	"MANNAM M	White and the second			
12							
2							
-8			(





JT:		Mobile Ph	none		M	odel No.:		BL52 PRO	
emperature:		20 ℃			Re	elative Hum	nidity:	48%	
est Mode:		802.11b/g	b/g/n(HT20) Test By: Allen Liu					Allen Liu	
l the modula	tion mod	es have b	been teste	d, and th	e worst re	esult was re	port as	below:	
Frequency	Read Level	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Remark	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)		
			Low Cha	annel (2412	MHz)(802.1	11b)Above 1	G		
4824.265	63.13	5.21	35.59	44.30	59.63	74.00	-14.37	Pk	Vertical
4824.265	40.75	5.21	35.59	44.30	37.25	54.00	-16.75	AV	Vertical
7236.296	60.14	6.48	36.27	44.60	58.29	74.00	-15.71	Pk	Vertical
7236.296	44.15	6.48	36.27	44.60	42.30	54.00	-11.70	AV	Vertical
4824.414	61.26	5.21	35.55	44.30	57.72	74.00	-16.28	Pk	Horizontal
4824.414	43.26	5.21	35.55	44.30	39.72	54.00	-14.28	AV	Horizontal
7236.428	62.59	6.48	36.27	44.52	60.82	74.00	-13.18	Pk	Horizontal
7236.428	47.23	6.48	36.27	44.52	45.46	54.00	-8.54	AV	Horizontal
	Mid Channel (2437 MHz)(802.11b)Above 1G								
4874.312	63.09	5.21	35.66	44.20	59.76	74.00	-14.24	Pk	Vertical
4874.312	42.32	5.21	35.66	44.20	38.99	54.00	-15.01	AV	Vertical
7311.227	59.97	7.10	36.50	44.43	59.14	74.00	-14.86	Pk	Vertical
7311.227	47.14	7.10	36.50	44.43	46.31	54.00	-7.69	AV	Vertical
4874.529	61.06	5.21	35.66	44.20	57.73	74.00	-16.27	Pk	Horizontal
4874.529	47.78	5.21	35.66	44.20	44.45	54.00	-9.55	AV	Horizontal
7311.313	59.91	7.10	36.50	44.43	59.08	74.00	-14.92	Pk	Horizontal
7311.313	41.74	7.10	36.50	44.43	40.91	54.00	-13.09	AV	Horizontal
			High Cha	annel (2462	MHz)(802.	11b)Above 1	G		r
4924.102	65.55	5.21	35.52	44.21	62.07	74.00	-11.93	Pk	Vertical
4924.102	43.01	5.21	35.52	44.21	39.53	54.00	-14.47	AV	Vertical
7386.425	60.58	7.10	36.53	44.60	59.61	74.00	-14.39	Pk	Vertical
7386.425	44.38	7.10	36.53	44.60	43.41	54.00	-10.59	AV	Vertical
4924.066	66.62	5.21	35.52	44.21	63.14	74.00	-10.86	Pk	Horizontal
4924.066	46.94	5.21	35.52	44.21	43.46	54.00	-10.54	AV	Horizontal
7386.198	60.92	7.10	36.53	44.60	59.95	74.00	-14.05	Pk	Horizontal
7386.198	44.69	7.10	36.53	44.60	43.72	54.00	-10.28	AV	Horizontal

Note:

(1) Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor

(2) Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

(3)"802.11b" mode is the worst mode. When PK value is lower than the Average value limit, average don't record.





Report No.: S23032100401003

Spurious Emission in Restricted Band 2310MHz -18000MHz
All the modulation modes have been tested, and the worst result was report as below:

e modulation modes have been tested, and the worst result was report as below:									
Frequency	Meter Reading	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
	802.11b								
2310.00	58.12	2.97	27.80	43.80	45.09	74	-28.91	Pk	Horizontal
2310.00	43.25	2.97	27.80	43.80	30.22	54	-23.78	AV	Horizontal
2310.00	58.65	2.97	27.80	43.80	45.62	74	-28.38	Pk	Vertical
2310.00	42.19	2.97	27.80	43.80	29.16	54	-24.84	AV	Vertical
2390.00	57.88	3.14	27.21	43.80	44.43	74	-29.57	Pk	Vertical
2390.00	41.74	3.14	27.21	43.80	28.29	54	-25.71	AV	Vertical
2390.00	57.05	3.14	27.21	43.80	43.60	74	-30.40	Pk	Horizontal
2390.00	41.56	3.14	27.21	43.80	28.11	54	-25.89	AV	Horizontal
2483.50	58.30	3.58	27.70	44.00	45.58	74	-28.42	Pk	Vertical
2483.50	43.46	3.58	27.70	44.00	30.74	54	-23.26	AV	Vertical
2483.50	59.10	3.58	27.70	44.00	46.38	74	-27.62	Pk	Horizontal
2483.50	41.93	3.58	27.70	44.00	29.21	54	-24.79	AV	Horizontal
				802.	11g				
2310.00	58.51	2.97	27.80	43.80	45.48	74	-28.52	Pk	Horizontal
2310.00	43.70	2.97	27.80	43.80	30.67	54	-23.33	AV	Horizontal
2310.00	56.53	2.97	27.80	43.80	43.50	74	-30.50	Pk	Vertical
2310.00	42.65	2.97	27.80	43.80	29.62	54	-24.38	AV	Vertical
2390.00	57.31	3.14	27.21	43.80	43.86	74	-30.14	Pk	Vertical
2390.00	42.42	3.14	27.21	43.80	28.97	54	-25.03	AV	Vertical
2390.00	57.88	3.14	27.21	43.80	44.43	74	-29.57	Pk	Horizontal
2390.00	44.25	3.14	27.21	43.80	30.80	54	-23.20	AV	Horizontal
2483.50	59.25	3.58	27.70	44.00	46.53	74	-27.47	Pk	Vertical
2483.50	44.43	3.58	27.70	44.00	31.71	54	-22.29	AV	Vertical
2483.50	58.67	3.58	27.70	44.00	45.95	74	-28.05	Pk	Horizontal
2483.50	41.67	3.58	27.70	44.00	28.95	54	-25.05	AV	Horizontal
				802.1	1n20				
2310.00	58.21	2.97	27.80	43.80	45.18	74	-28.82	Pk	Horizontal
2310.00	43.84	2.97	27.80	43.80	30.81	54	-23.19	AV	Horizontal
2310.00	58.82	2.97	27.80	43.80	45.79	74	-28.21	Pk	Vertical
2310.00	42.23	2.97	27.80	43.80	29.20	54	-24.80	AV	Vertical
2390.00	57.76	3.14	27.21	43.80	44.31	74	-29.69	Pk	Vertical
2390.00	42.40	3.14	27.21	43.80	28.95	54	-25.05	AV	Vertical
2390.00	56.74	3.14	27.21	43.80	43.29	74	-30.71	Pk	Horizontal
2390.00	41.96	3.14	27.21	43.80	28.51	54	-25.49	AV	Horizontal
2483.50	57.58	3.58	27.70	44.00	44.86	74	-29.14	Pk	Vertical
2483.50	43.08	3.58	27.70	44.00	30.36	54	-23.64	AV	Vertical
2483.50	58.60	3.58	27.70	44.00	45.88	74	-28.12	Pk	Horizontal
2483.50	41.74	3.58	27.70	44.00	29.02	54	-24.98	AV	Horizontal





Spurious Emission in Restricted Bands 3260MHz- 18000MHz

All the modulation modes have been tested, the worst result was report as below:

Frequency	Reading Level	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
3260	60.32	4.04	29.57	44.70	49.23	74	-24.77	Pk	Vertical
3260	55.90	4.04	29.57	44.70	44.81	54	-9.19	AV	Vertical
3260	61.97	4.04	29.57	44.70	50.88	74	-23.12	Pk	Horizontal
3260	56.64	4.04	29.57	44.70	45.55	54	-8.45	AV	Horizontal
3332	64.20	4.26	29.87	44.40	53.93	74	-20.07	Pk	Vertical
3332	54.20	4.26	29.87	44.40	43.93	54	-10.07	AV	Vertical
3332	62.54	4.26	29.87	44.40	52.27	74	-21.73	Pk	Horizontal
3332	52.65	4.26	29.87	44.40	42.38	54	-11.62	AV	Horizontal
17797	42.70	10.99	43.95	43.50	54.14	74	-19.86	Pk	Vertical
17797	32.69	10.99	43.95	43.50	44.13	54	-9.87	AV	Vertical
17788	43.81	11.81	43.69	44.60	54.71	74	-19.29	Pk	Horizontal
17788	32.24	11.81	43.69	44.60	43.14	54	-10.86	AV	Horizontal

"802.11b" mode is the worst mode. When PK value is lower than the Average value limit, average don't record.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.



7.3 6DB BANDWIDTH

7.3.1 Applicable Standard

According to FCC Part 15.247(a)(2) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.2.

7.3.2 Conformance Limit

The minimum permissible 6dB bandwidth is 500 kHz.

7.3.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.3.4 Test Setup

Please refer to Section 6.1 of this test report.

7.3.5 Test Procedure

The testing follows Subclause 11.8 of ANSI C63.10. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. The EUT was operating in controlled its channel. Use the following spectrum analyzer settings: Span = the frequency band of operation RBW = 100KHz VBW \ge 3*RBW Sweep = auto Detector function = peak Trace = max hold





7.3.6 Test Results

EUT:	Mobile Phone	Model No.:	BL52 PRO
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	802.11b/g/n20	Test By:	Allen Liu





7.4 DUTY CYCLE

7.4.1 Applicable Standard

According to KDB 558074 D01 15.247 Meas Guidance v05r02 Section 6.

7.4.2 Conformance Limit

No limit requirement.

7.4.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.4.4 Test Setup

Please refer to Section 6.1 of this test report.

7.4.5 Test Procedure

a) A diode detector and an oscilloscope that together have a sufficiently short response time to permit accurate measurements of the ON and OFF times of the transmitted signal.

b) The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the ON and OFF times of the transmitted signal:

1) Set the center frequency of the instrument to the center frequency of the transmission.

2) Set RBW \geq OBW if possible; otherwise, set RBW to the largest available value.

3) Set VBW \geq RBW. Set detector = peak or average.

4) The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring the duty cycle shall not be used if T \leq 16.7 µs.)

Measure T_{total} and T_{on}

Calculate Duty Cycle = T_{on}/T_{total}

7.4.6 Test Results

EUT:	Mobile Phone	Model No.:	BL52 PRO
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	802.11b/g/n20	Test By:	Allen Liu



7.5 MAXIMUM OUTPUT POWER

7.5.1 Applicable Standard

According to FCC Part 15.247(b)(3) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.3.2.3.

7.5.2 Conformance Limit

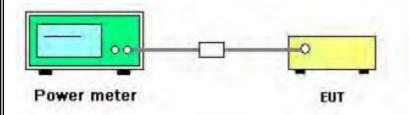
The maximum peak conducted output power of the intentional radiator for systems using digital modulation in the 2400 - 2483.5 MHz bands shall not exceed: 1 Watt (30dBm). If transmitting antenna of directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

7.5.3 Measuring Instruments

The following table is the setting of the power meter.

Power meter parameter	Setting
Detector	РК

7.5.4 Test Setup



7.5.5 Test Procedure

The testing follows Measurement Procedure Subclause 11.9.1.3 of ANSI C63.10

7.5.6 EUT operation during Test

The EUT was programmed to be in continuously transmitting mode.





7.5.7 Test Results

EUT:	Mobile Phone	Model No.:	BL52 PRO
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	802.11b/g/n20	Test By:	Allen Liu



7.6 POWER SPECTRAL DENSITY

7.6.1 Applicable Standard

According to FCC Part 15.247(e) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.4.

7.6.2 Conformance Limit

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

7.6.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.6.4 Test Setup

Please refer to Section 6.1 of this test report.

7.6.5 Test Procedure

The testing follows Measurement Procedure Subclause 11.10.2 of ANSI C63.10

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance, and is optional if the maximum conducted (average) output power was used to demonstrate compliance.

a) Set analyzer center frequency to DTS channel center frequency.

- b) Set the span to 1.5 times the DTS bandwidth.
- c) Set the RBW to: 3 kHz \leq RBW \leq 100 kHz.
- d) Set the VBW \geq 3 *RBW.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

7.6.6 Test Results

EUT:	Mobile Phone	Model No.:	BL52 PRO
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	802.11b/g/n20	Test By:	Allen Liu

NTEK 北测[®]



7.7 CONDUCTED BAND EDGE MEASUREMENT

7.7.1 Applicable Standard

According to FCC Part 15.247(d) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.7.

7.7.2 Conformance Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

7.7.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.7.4 Test Setup

Please refer to Section 6.1 of this test report.

7.7.5 Test Procedure

The testing follows FCC KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.7.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.

Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.

Repeat above procedures until all measured frequencies were complete.

7.7.6 Test Results

EUT:	Mobile Phone	Model No.:	BL52 PRO
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	802.11b/g/n20	Test By:	Allen Liu



7.8 SPURIOUS RF CONDUCTED EMISSIONS

7.8.1 Conformance Limit

1. Below -20dB of the highest emission level in operating band.

2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

7.8.2 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.8.3 Test Setup

Please refer to Section 6.1 of this test report.

7.8.4 Test Procedure

The Spurious RF conducted emissions compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW=100kHz and VBW= 300KHz to measure the peak field strength, and measure frequency range from 30MHz to 26.5GHz.

7.8.5 Test Results

Remark: The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandege measurement data.



7.9 ANTENNA APPLICATION

7.9.1 Antenna Requirement

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

7.9.2 Result

The EUT antenna is permanent attached PIFA Antenna (Gain: 0.83dBi). It comply with the standard requirement.





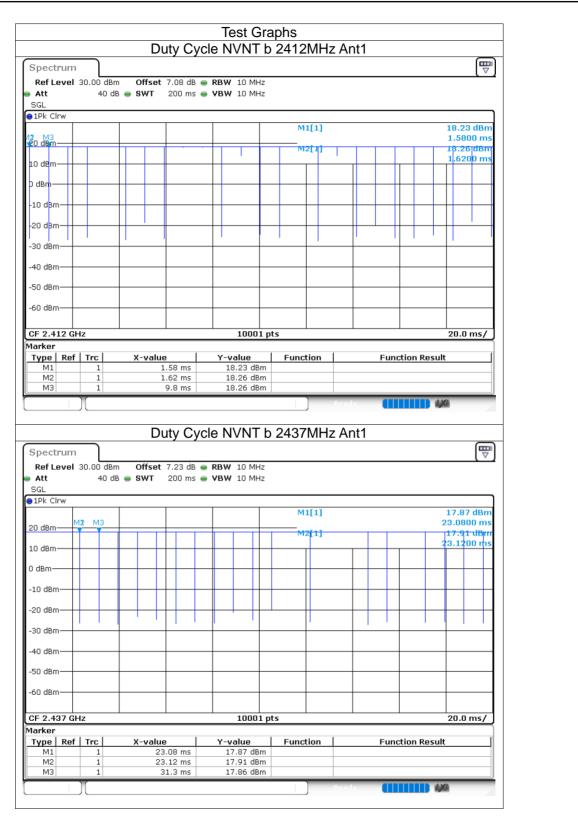
8 TEST RESULTS

8.1 DUTY CYCLE

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)
NVNT	b	2412	Ant1	99.81
NVNT	b	2437	Ant1	99.8
NVNT	b	2462	Ant1	99.78
NVNT	g	2412	Ant1	97.94
NVNT	g	2437	Ant1	98.14
NVNT	g	2462	Ant1	98.12
NVNT	n20	2412	Ant1	98.05
NVNT	n20	2437	Ant1	98.08
NVNT	n20	2462	Ant1	98.17







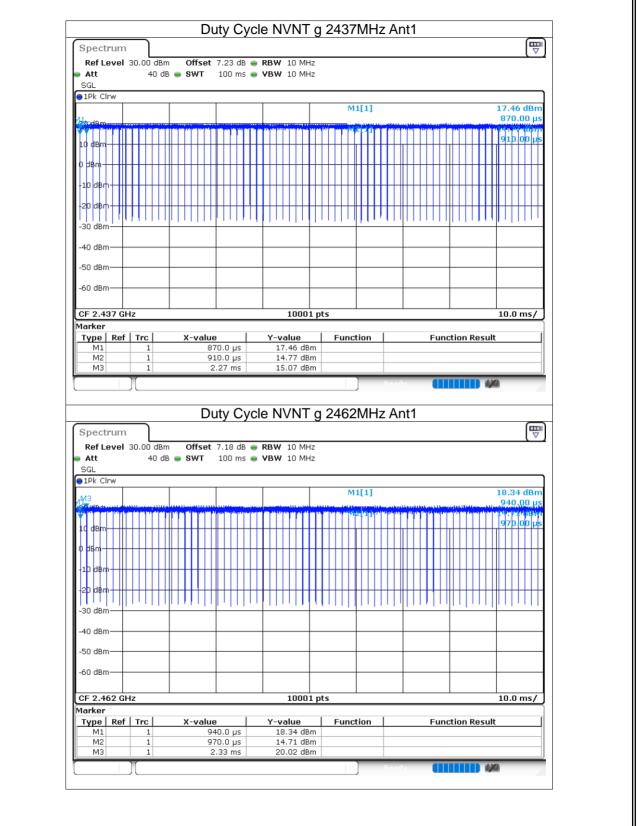




								1	7
Ref Level 30.00 Att 4			RBW 10 MH: VBW 10 MH:						
SGL									_
●1Pk Clrw			т т	M1	11			19.34 dB	
M2 M3								3.2200 m	
				M2	[1]			19.37 dB 3.2600 m	
10 dBm								3.2000 11	15
0 dBm									
-10 dBm									
-20 dBm									
-30 dBm									-11
-40 dBm									
-50 dBm									
-60 dBm									
CF 2.462 GHz			10001	pts				20.0 ms/	/
Marker									
Type Ref Trc M1 1	X-value	.22 ms	<u>Y-value</u> 19.34 dBr	Function	on	Fu	nction Res	ult	
M2 1	3.	.26 ms	19.37 dBr	n					
M3 1	19.	.68 ms	19.37 dBr	n					_
	Du	ity Cycl	le NVNT	g 2412N	ЛНz A	nt1		nger G	
Spectrum Ref Level 30.00	dBm Offset	7.08 dB 👄	RBW 10 MH	z	/Hz Ai	nt1			7
Ref Level 30.00	dBm Offset	7.08 dB 👄		z	/Hz Ai	nt1		Į.	7
Ref Level 30.00 Att 4	dBm Offset	7.08 dB 👄	RBW 10 MH	z z		nt1			
Ref Level 30.00 Att 4 SGL 1Pk Clrw	dBm Offset	7.08 dB 👄	RBW 10 MH	z		nt1		18.06 dB 740.00 j	
Ref Level 30.00 Att 4 SGL 1Pk Clrw	dBm Offset	7.08 dB 👄	RBW 10 MH	z z		nt1		18.06 dB 740.00 j	
Ref Level 30.00 Att 4 SGL 1Pk Clrw	dBm Offset	7.08 dB 👄	RBW 10 MH	z z		nt1		18.06 dB	
Ref Level 30.00 Att 4 SGL 10k Cirw 1Pk Cirw 4	dBm Offset	7.08 dB 👄	RBW 10 MH	z z		nt1		18.06 dB 740.00 j	
Ref Level 30.00 Att 4 SGL 1Pk Clrw 10 dBm	dBm Offset	7.08 dB 👄	RBW 10 MH	z z		nt1		18.06 dB 740.00 j	
Ref Level 30.00 Att 4 SGL 10 10 dBm 10 dBm	dBm Offset	7.08 dB 👄	RBW 10 MH	z z		nt1		18.06 dB 740.00 j	
Ref Level 30.00 Att 4 SGL 1Pk Clrw 10 dBm -10 dBm -20 dBm	dBm Offset 0 dB SWT	7.08 dB • 100 ms •	RBW 10 MH VBW 10 MH	z z M1				18.06 dB 740.00 j 770.00 j	m is is
Ref Level 30.00 Att 4 SGL 4 1Pk Clrw 4 10 dBm 4 -10 dBm 4 -20 d3m 4	dBm Offset 0 dB SWT	7.08 dB • 100 ms •	RBW 10 MH	z z M1				18.06 dB 740.00 j 770.00 j	m is is
Ref Level 30.00 Att 4 SGL 1Pk Clrw 10 dBm -10 dBm -20 dBm	dBm Offset 0 dB SWT	7.08 dB • 100 ms •	RBW 10 MH VBW 10 MH	z z M1				18.06 dB 740.00 j 770.00 j	m is is
Ref Level 30.00 Att 4 SGL 10 1Pk Clrw 10 10 dBm 10 -10 dBm 10 -20 dBm 10	dBm Offset 0 dB SWT	7.08 dB • 100 ms •	RBW 10 MH VBW 10 MH	z z M1				18.06 dB 740.00 j 770.00 j	m is is
Ref Level 30.00 Att 4 SGL 10 1Pk Clrw 4 10 dBm 10 10 dBm 10 -20 dBm 10 -30 dBm -40 dBm	dBm Offset 0 dB SWT	7.08 dB • 100 ms •	RBW 10 MH VBW 10 MH	z z M1				18.06 dB 740.00 j 770.00 j	m is is
Ref Level 30.00 Att 4 SGL 4 1Pk Clrw 4 10 dBm 4 -10 dBm 4 -20 dBm 4 -30 dBm 4 -50 dBm 5	dBm Offset 0 dB SWT	7.08 dB • 100 ms •	RBW 10 MH VBW 10 MH	z z M1				18.06 dB 740.00 j 770.00 j	
Ref Level 30.00 Att 4 SGL 10 1Pk Clrw 10 10 dBm 10 10 dBm 10 -20 dBm 10 -30 dBm 10 -60 dBm -60 dBm -60 dBm -60 dBm	dBm Offset 0 dB SWT	7.08 dB 100 ms	RBW 10 MH VBW 10 MH	z z M1				18.06 dB 740.00 j 770.00 j	
Ref Level 30.00 Att 4 SGL 4 1Pk Clrw 4 10 dBm 4 10 dBm 4 -10 dBm 4 -20 dBm 4 -60 dBm -60 dBm CF 2.412 GHz Marker Type Ref Trc	dBm Offset 0 dB SWT	7.08 dB 100 ms 100 ms 100 ms 100 ms 100 100 100 100 100 100 100 1	RBW 10 MH VBW 10 MH I I	z z m11 1 1 1 2 1 1 1 1 2 1 1 1 1 1 2 1 1 1 1				18.06 dB 740.00 j 770.00 j	
Ref Level 30.00 Att 4 SGL 10 1Pk Clrw 10 10 dBm 10 10 dBm 10 -20 dBm 10 -30 dBm 10 -60 dBm -60 dBm -60 dBm -60 dBm	dBm Offset 0 dB SWT	7.08 dB 100 ms	RBW 10 MH VBW 10 MH	z z m1				18.06 dB 740.00 j 770.00 j	

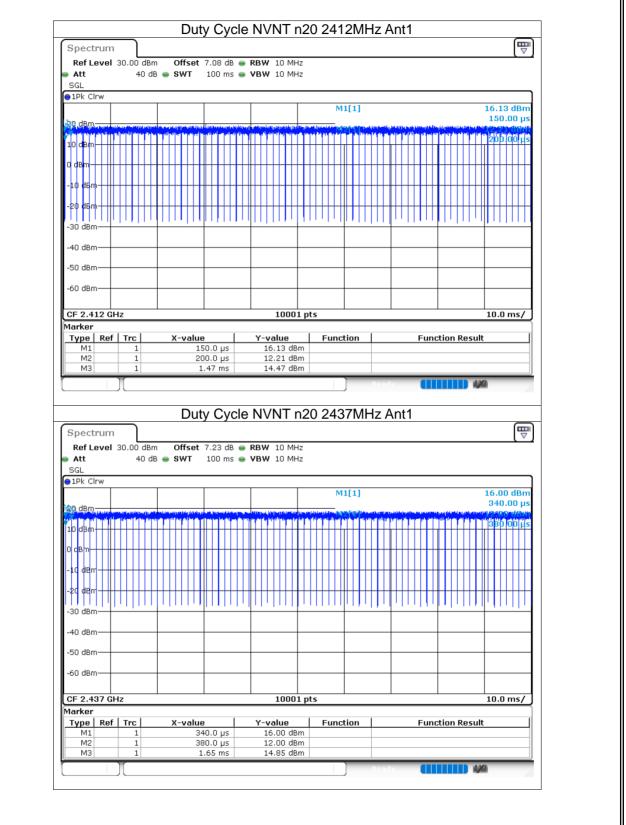






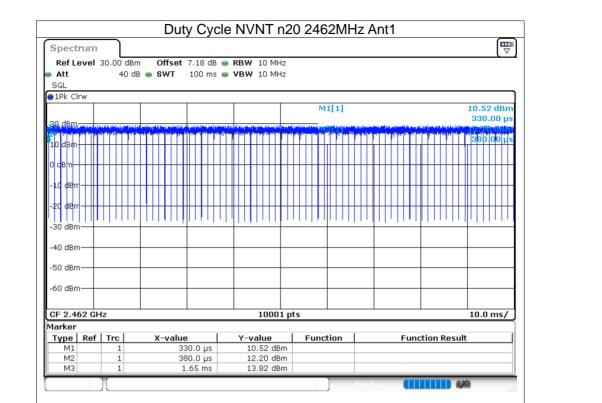
















8.2 MAXIMUM CONDUCTED OUTPUT POWER

				-		
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
				Fower (ubili)	(ubiii)	
NVNT	b	2412	Ant1	15.96	30	Pass
NVNT	b	2437	Ant1	15.22	30	Pass
NVNT	b	2462	Ant1	16.82	30	Pass
NVNT	g	2412	Ant1	14.41	30	Pass
NVNT	g	2437	Ant1	13.76	30	Pass
NVNT	g	2462	Ant1	14.03	30	Pass
NVNT	n20	2412	Ant1	11.59	30	Pass
NVNT	n20	2437	Ant1	11.05	30	Pass
NVNT	n20	2462	Ant1	11.43	30	Pass



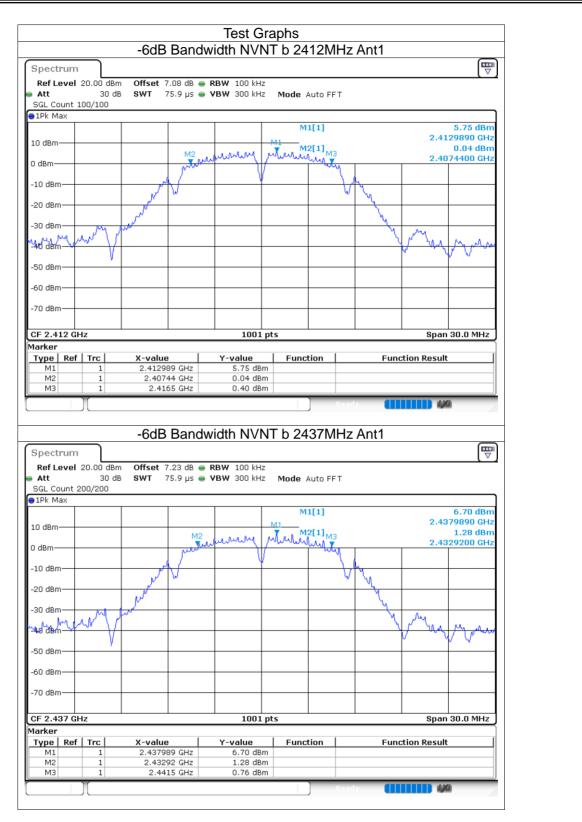


8.3 -6DB BANDWIDTH

0.5						
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	9.06	0.5	Pass
NVNT	b	2437	Ant1	8.58	0.5	Pass
NVNT	b	2462	Ant1	9.09	0.5	Pass
NVNT	g	2412	Ant1	16.443	0.5	Pass
NVNT	g	2437	Ant1	16.569	0.5	Pass
NVNT	g	2462	Ant1	16.353	0.5	Pass
NVNT	n20	2412	Ant1	17.598	0.5	Pass
NVNT	n20	2437	Ant1	17.568	0.5	Pass
NVNT	n20	2462	Ant1	17.538	0.5	Pass

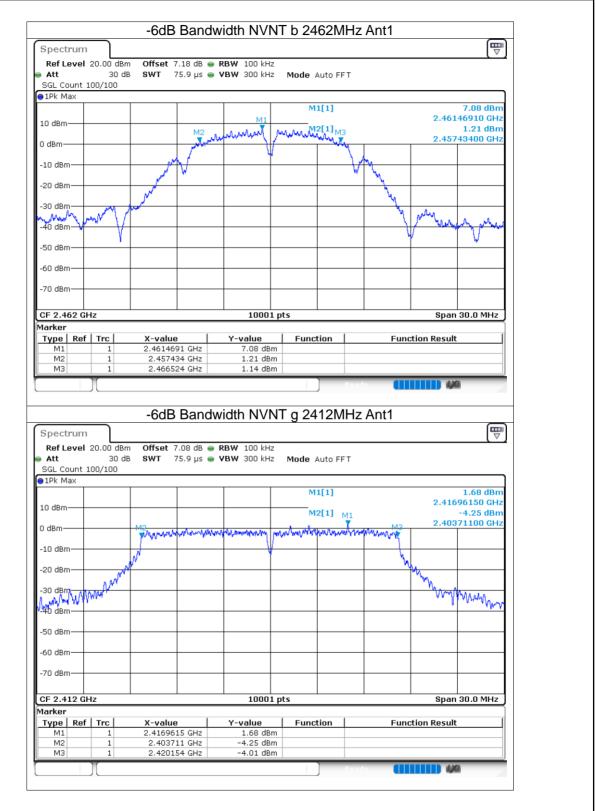






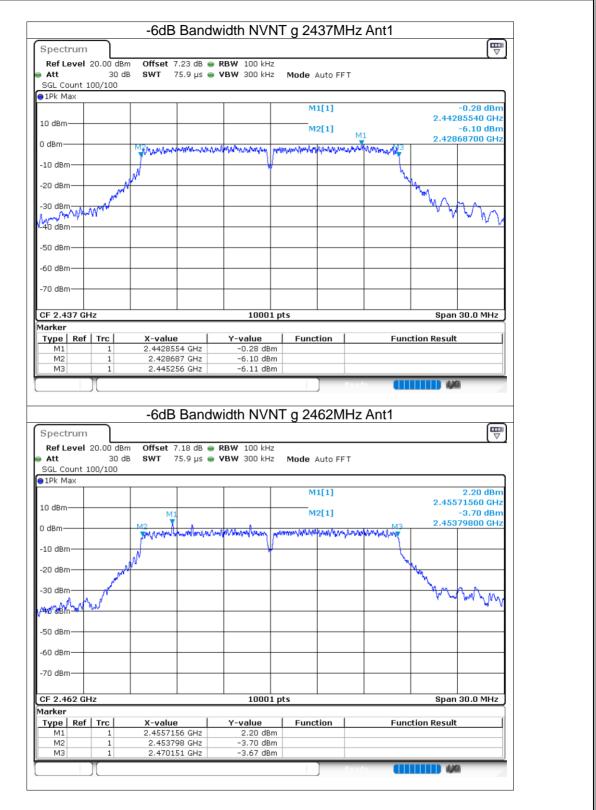






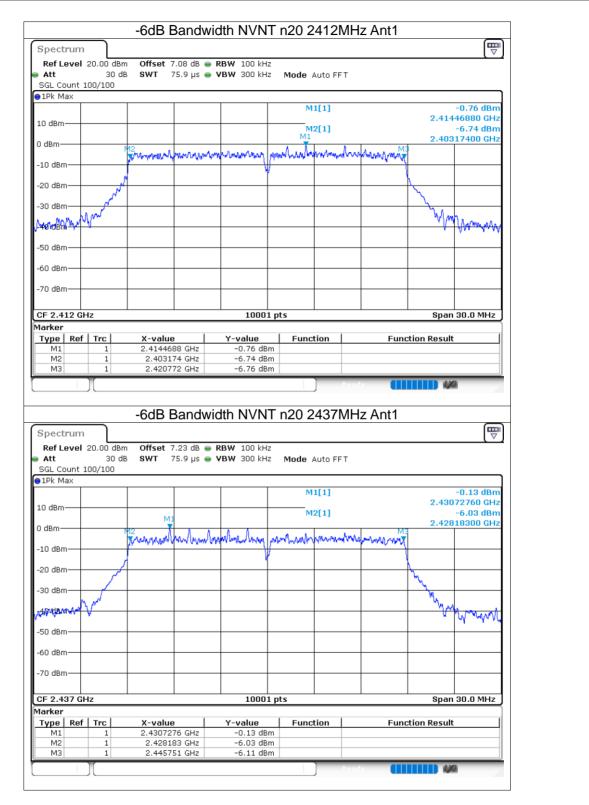
















pectr	um										
Ref Le	vel 2	20.00 dBn	n Offset	7.18 dB 🖷	RBW 100 kH	z				<u>(``</u> _	
Att		30 di	B SWT	75.9 µs 🥃	VBW 300 kH	z Mode	Auto FFT				
		00/100									
LPk Ma	×										
						N 1	11[1]		0.464	0.36 dBm 48080 GHz	
) dBm-							49[1]		2.464	-5.65 dBm	
-						MÌ	12[1]		2.453	21300 GHz	
dBm—			M2 To the tar MA		mannam	un hered	malande	www.handwar			
0 dBm			Management	- A MARTIN	an use on Pathandar matau	Manual and the Address of the	and the stand of	AND			
					1	r i i i i i i i i i i i i i i i i i i i		1 1			
0 dBm	_		1						<u> </u>		
o -10		North Contraction							N .		
0 dBm		and the second second							h.		
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ייעיי	1	, ,								V. I	
0 dBm											
0 dBm											
U UDIII											
0 dBm											
F 2.46	2 GH:	z	1		1000	1 pts			Span	30.0 MHz	
arker											
	Ref	Trc	X-valu		Y-value		ction	Fund	tion Result		
M1		1	2.46448		0.36 dB						
M2 M3		1	2.4532		-5.65 dB -5.47 dB						



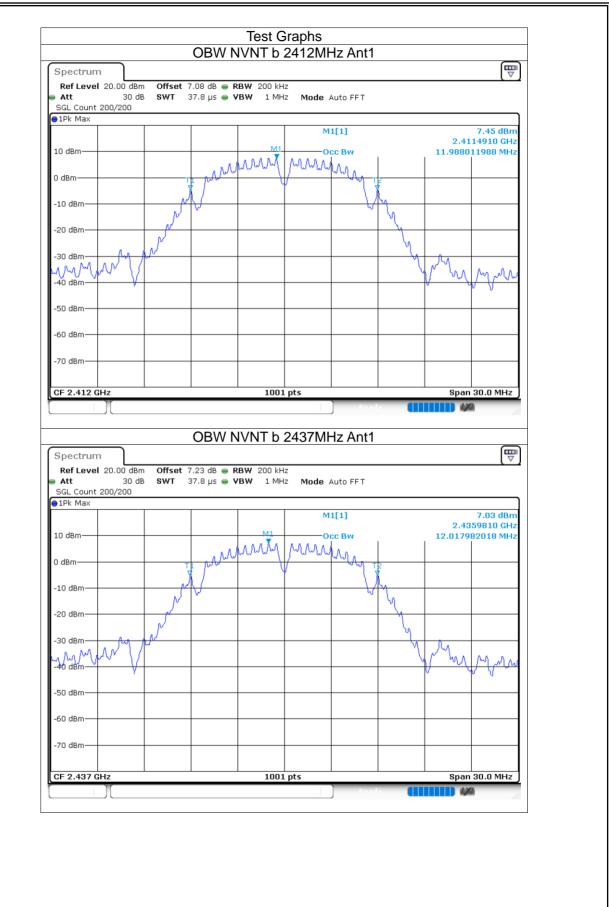


8.4 OCC										
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)						
NVNT	b	2412	Ant1	11.988						
NVNT	b	2437	Ant1	12.018						
NVNT	b	2462	Ant1	11.988						
NVNT	g	2412	Ant1	16.669						
NVNT	g	2437	Ant1	16.591						
NVNT	g	2462	Ant1	16.747						
NVNT	n20	2412	Ant1	17.683						
NVNT	n20	2437	Ant1	17.764						
NVNT	n20	2462	Ant1	17.671						



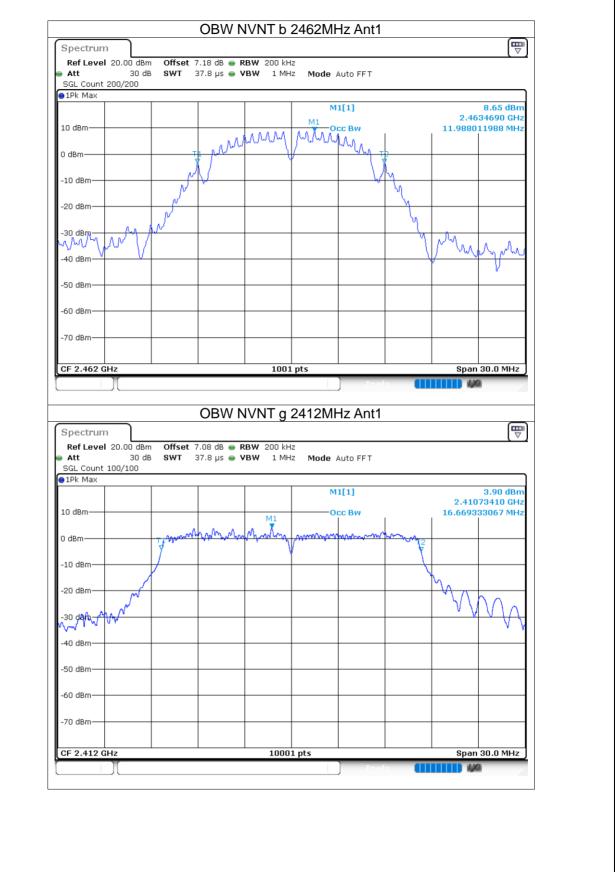


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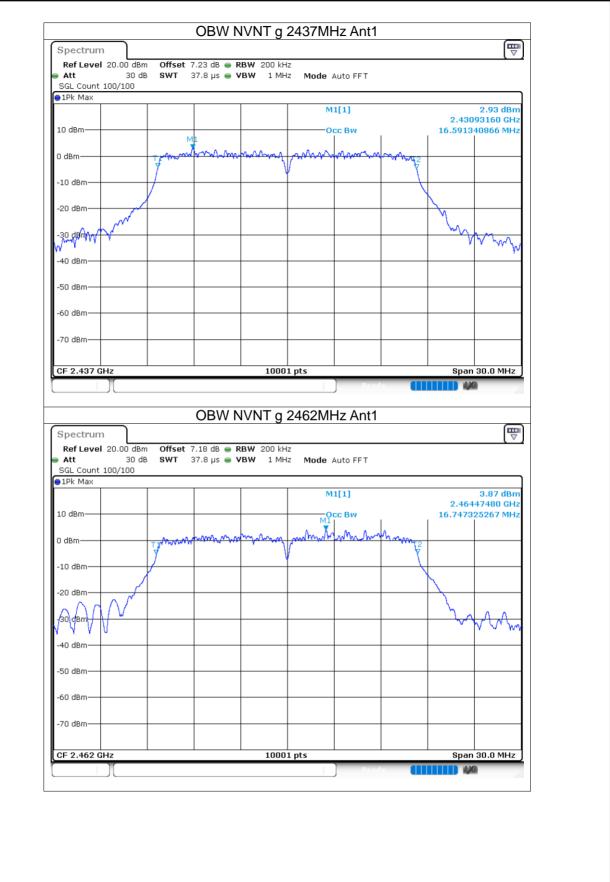






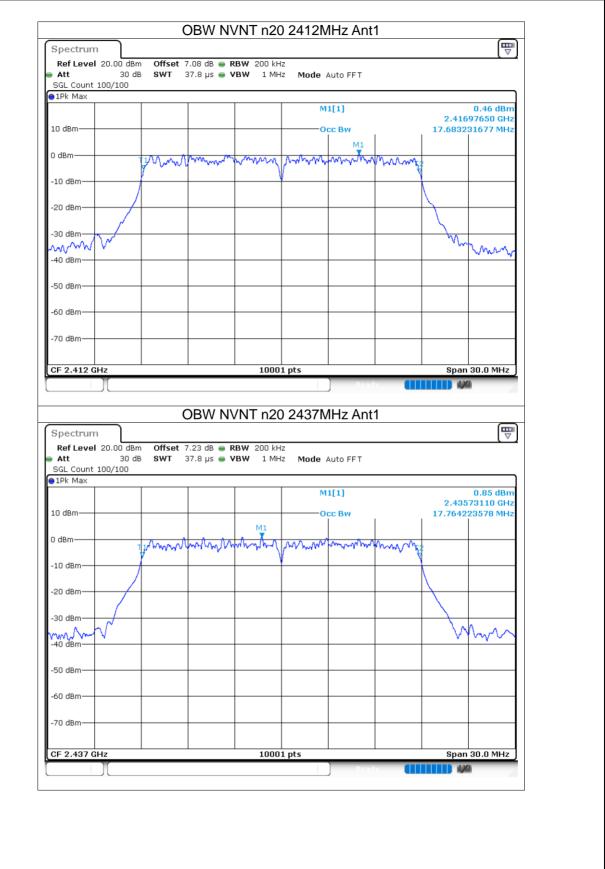






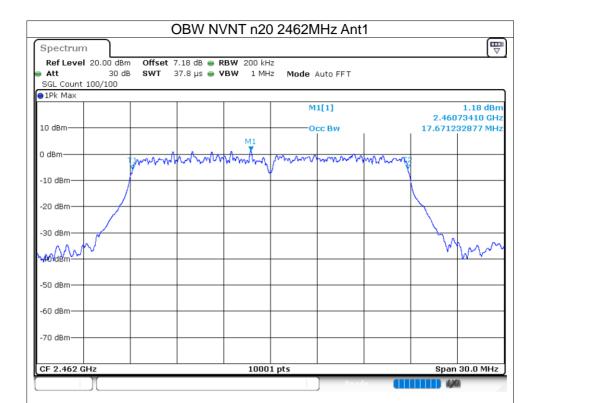
















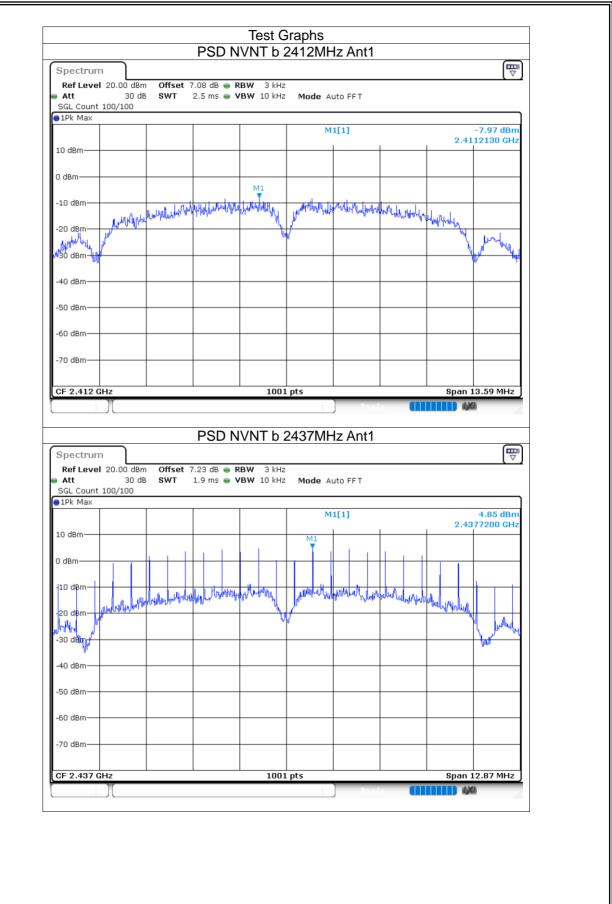
8.5 MAXIMUM POWER SPECTRAL DENSITY LEVEL

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Limit (dBm)	Verdict					
NVNT	b	2412	Ant1	-7.97	8	Pass					
NVNT	b	2437	Ant1	4.85	8	Pass					
NVNT	b	2462	Ant1	6.18	8	Pass					
NVNT	g	2412	Ant1	-12.23	8	Pass					
NVNT	g	2437	Ant1	-12.27	8	Pass					
NVNT	g	2462	Ant1	-12.47	8	Pass					
NVNT	n20	2412	Ant1	-14.97	8	Pass					
NVNT	n20	2437	Ant1	-14.78	8	Pass					
NVNT	n20	2462	Ant1	-14.79	8	Pass					



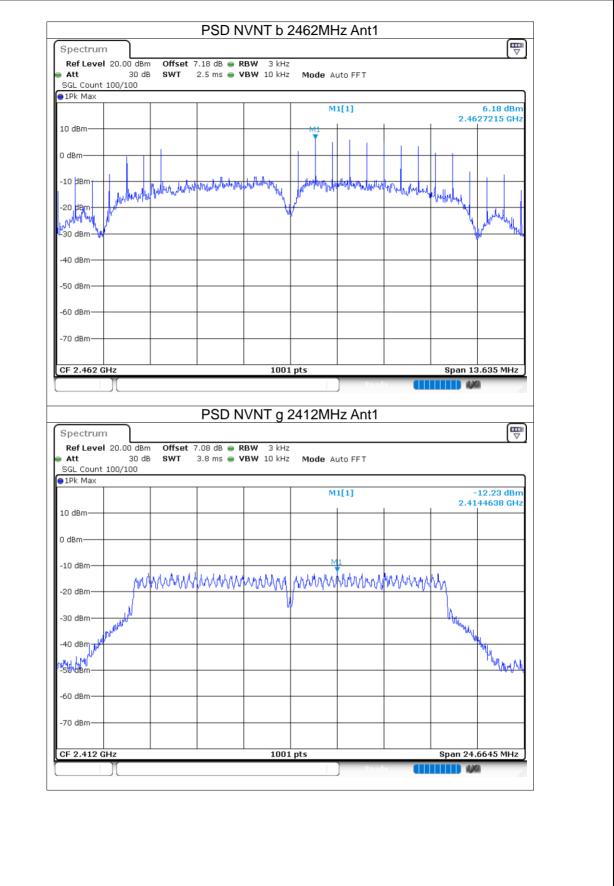


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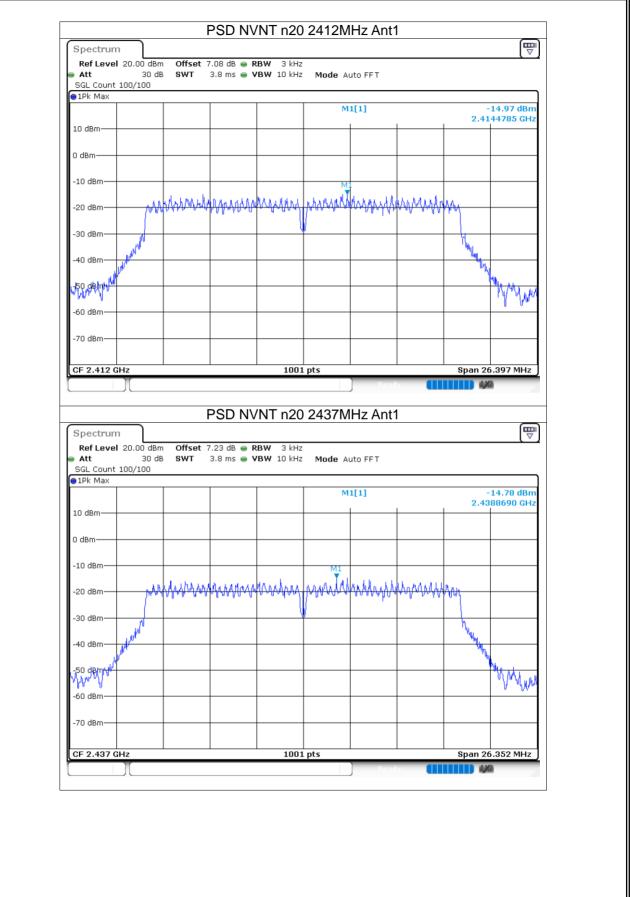




Ref Level 20.00 dBm Att 30 dB SGL Count 100/100	Offset 7.23 dB ● RBW 3 SWT 3.8 ms ● VBW 10	kHz kHz Mode Auto F	FT		
1Pk Max					
10 d0m		M1[1]	1		12.27 dBm 17683 GHz
10 dBm					
0 dBm					
-10 dBm	M1				
-20 dBm///	mymmm	NY MAMANA	MANAMANA	Vin	
		W			
-30 dBm				Www.	
-40 dBm				- mby	Vu k
0.50 \dBm					Marshal
-60 dBm					
-70 dBm					
CF 2.437 GHz		001 pts		Span 24.8	8535 MHz
			Ready		
		0.4001.41.1			
Ref Level 20.00 dBm		kHz			
Ref Level 20.00 dBm Att 30 dB SGL Count 100/100		kHz kHz Mode Auto F	FΤ		
Ref Level 20.00 dBm Att 30 dB SGL Count 1Pk Max	Offset 7.18 dB 👄 RBW 3	kHz	FΤ		(↓ 12.47 dBm 32503 GHz
Ref Level 20.00 dBm Att 30 dB SGL Count 1Pk Max	Offset 7.18 dB 👄 RBW 3	kHz kHz Mode Auto F	FΤ		L2.47 dBm
Ref Level 20.00 dBm Att 30 dB SGL Count 100/100 1Pk Max 10 dBm	Offset 7.18 dB 👄 RBW 3	kHz kHz Mode Auto F	FΤ		L2.47 dBm
Att 30 dB SGL Count 100/100 IPk Max 10 dBm 0 dBm	Offset 7.18 dB RBW 3 SWT 3.8 ms VBW 10	kHz Mode Auto F	FT	2.463	L2.47 dBm
Ref Level 20.00 dBm Att 30 dB SGL Count 100/100 IPk Max 10 dBm 10 dBm 0 dBm	Offset 7.18 dB RBW 3 SWT 3.8 ms VBW 10	kHz Mode Auto F	FT	2.463	L2.47 dBm
Ref Level 20.00 dBm Att 30 dB SGL Count 100/100 IPk Max 10 dBm 10 dBm 0 dBm -10 dBm	Offset 7.18 dB 👄 RBW 3	kHz Mode Auto F	FT	2.463	L2.47 dBm
Ref Level 20.00 dBm Att 30 dB SGL Count 100/100 IPk Max 10 dBm 10 dBm 0 dBm	Offset 7.18 dB RBW 3 SWT 3.8 ms VBW 10	KHZ KHZ Mode Auto F M1[1]	FT	2.463	L2.47 dBm
Ref Level 20.00 dBm Att 30 dB SGL Count 100/100 IPk Max 10 dBm 10 dBm 0 dBm -10 dBm	Offset 7.18 dB RBW 3 SWT 3.8 ms VBW 10	KHZ KHZ Mode Auto F M1[1]	FT	2.463	L2.47 dBm
Ref Level 20.00 dBm Att 30 dB SGL Count 100/100 IPk Max 10 dBm 10 dBm 0 dBm -10 dBm	Offset 7.18 dB RBW 3 SWT 3.8 ms VBW 10	KHZ KHZ Mode Auto F M1[1]	FT	2.463	L2.47 dBm
Ref Level 20.00 dBm Att 30 dB SGL Count 100/100 IPk Max 10 dBm 10 dBm 0 dBm -10 dBm 0 dBm -20 dBm MM -30 dBm MM -40 dBm MM	Offset 7.18 dB RBW 3 SWT 3.8 ms VBW 10	KHZ KHZ Mode Auto F M1[1]	FT	2.463	L2.47 dBm
Ref Level 20.00 dBm Att 30 dB SGL Count 100/100 1Pk Max 10 dBm 10 dBm 0 dBm -10 dBm 0 dBm -20 dBm MM -30 dBm 10 dBm	Offset 7.18 dB ● RBW 3 SWT 3.8 ms ● VBW 10	KHZ KHZ Mode Auto F M1[1]	FT	2.463	L2.47 dBm
Ref Level 20.00 dBm Att 30 dB SGL Count 100/100 1Pk Max 10 dBm 10 dBm 0 dBm -10 dBm 0 dBm -20 dBm MM -30 dBm 0 dBm	Offset 7.18 dB ● RBW 3 SWT 3.8 ms ● VBW 10	KHZ KHZ Mode Auto F M1[1]	FT	2.463	L2.47 dBm
Ref Level 20.00 dBm Att 30 dB SGL Count 100/100 IPk Max 10 dBm 10 dBm 0 dBm -10 dBm 0 dBm -20 dBm 0 dBm -30 dBm 0 dBm -20 dBm 0 dBm -30 dBm 0 dBm -70 dBm 0 dBm	Offset 7.18 dB RBW 3 SWT 3.8 ms VBW 10	kHz Mode Auto M1[1] M1 M1 M1 M2 M1 M1 M1 M2 M1	FT	2.465	12.47 dBm 22503 GHz
Ref Level 20.00 dBm Att 30 dB SGL Count 100/100 1Pk Max 10 dBm 10 dBm 0 dBm -10 dBm 0 dBm -20 dBm MM -30 dBm	Offset 7.18 dB RBW 3 SWT 3.8 ms VBW 10	KHZ KHZ Mode Auto F M1[1]	FT	2.463	12.47 dBm 32503 GHz

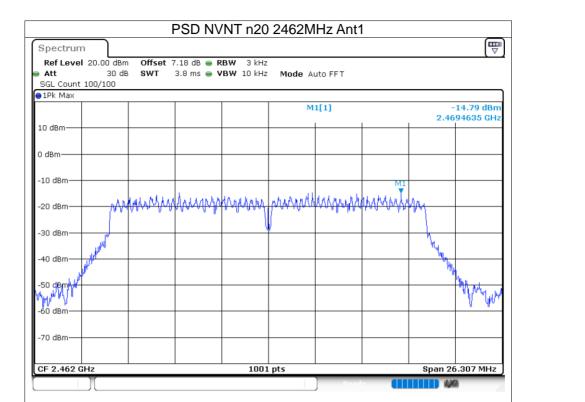














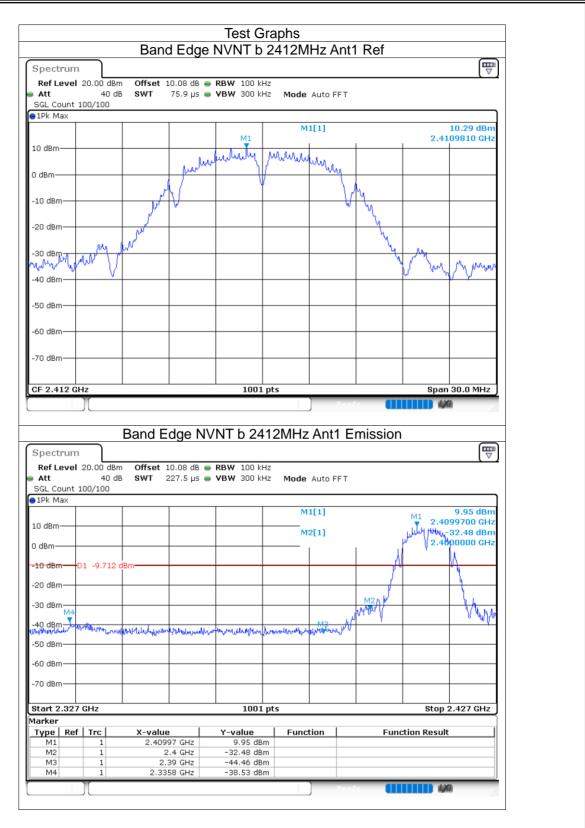


8.6 BAND EDGE

0.0 0										
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict				
NVNT	b	2412	Ant1	-48.81	-20	Pass				
NVNT	b	2462	Ant1	-54.04	-20	Pass				
NVNT	g	2412	Ant1	-43.85	-20	Pass				
NVNT	g	2462	Ant1	-41.75	-20	Pass				
NVNT	n20	2412	Ant1	-41.29	-20	Pass				
NVNT	n20	2462	Ant1	-43.15	-20	Pass				

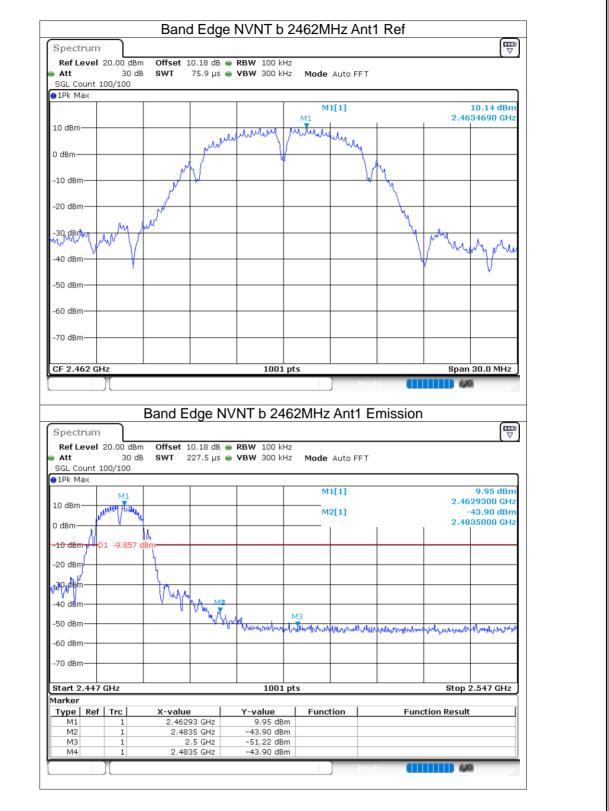






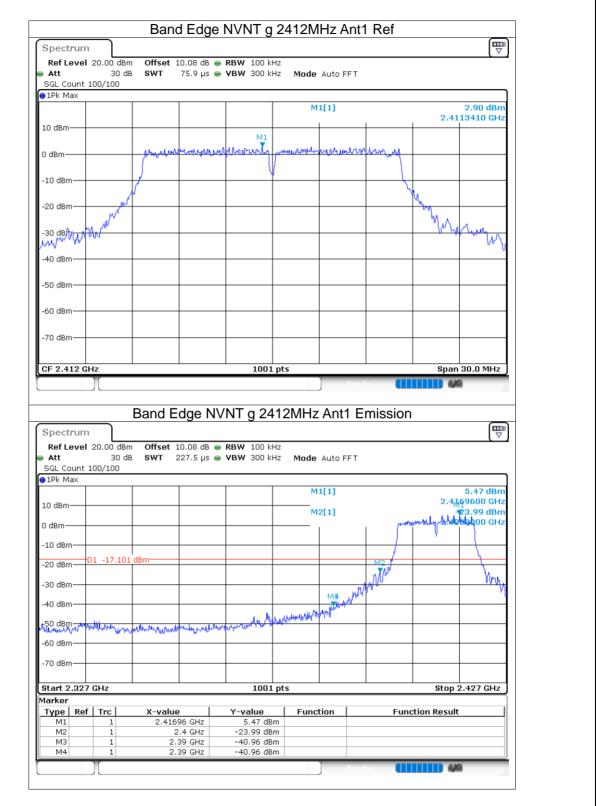






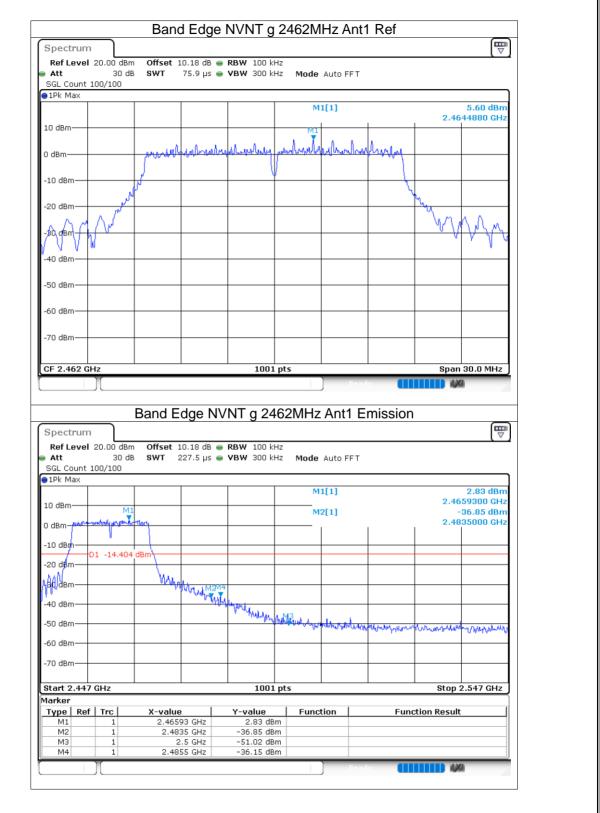












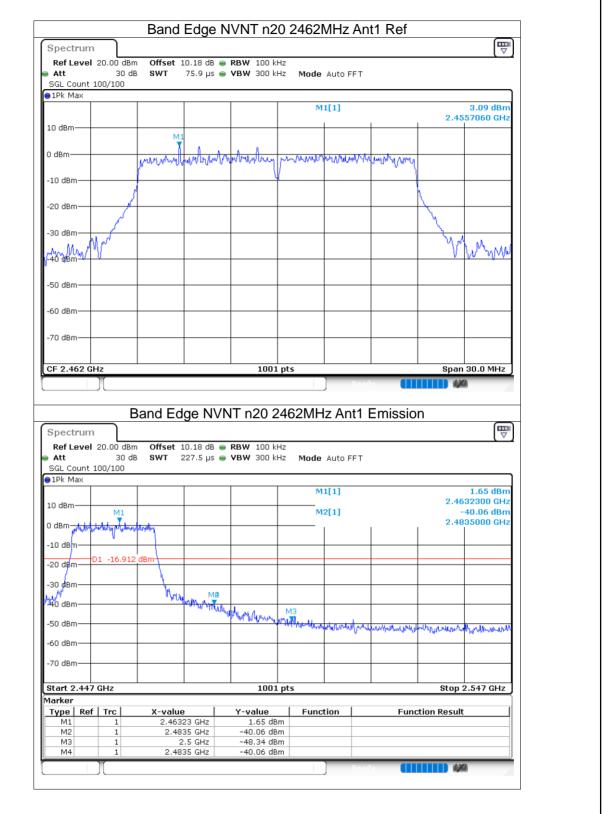




Spectru		Dana		IVNT n2	10				₽	-
-	el 20.00 dBn	Offcot 10		RBW 100 kH	-				[▽]	
Att	30 di			VBW 300 kH		Auto FFT				
SGL Coun	t 100/100									
отьк мах		<u>г</u>		1	M1	[1]			0.10 dBm	
						[+]		2.4	L69750 GHz	
10 dBm										
0 dBm						M1				
0 ubiii		Marchara	man	willyburehan	proveduality	www.www	management			
-10 dBm—				- V						
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20 dB	المحم ا							<u> </u>		
-30 dBm-	MM .							N/N	hmph	
-40 dBm—								μ μ	MAR. Allow	
-50 dBm—									<u> </u>	
60 d8m										
-60 dBm—										
-70 dBm—									<u> </u>	
CF 2.412	GHz			1001	nts			Spar	30.0 MHz	1
	E	Band Edg	ge NVN			root z Ant1 I	Emissio			_
Spectru	m			NT n20 2	412MHz	Read z Ant1 I	Emissio			-
Ref Leve Att	m el 20.00 dBn 30 dB	n Offset 10).08 dB 👄		412MHz	Pood z Ant1 I Auto FFT	Emissio			-
Ref Leve Att SGL Coun	m el 20.00 dBn 30 dB	n Offset 10).08 dB 👄	NT n20 2	412MHz		Emissio			_
Ref Leve Att SGL Coun	m el 20.00 dBn 30 dB	n Offset 10).08 dB 👄	NT n20 2	412MHz	Auto FFT	Emissio			
Ref Leve Att SGL Coun	m el 20.00 dBn 30 dB	n Offset 10).08 dB 👄	NT n20 2	412MHz 4z 4z Mode / M1	Auto FFT	Emissio	n 2.4:		_
Ref Leve Att SGL Coun 1Pk Max	m el 20.00 dBn 30 dB	n Offset 10).08 dB 👄	NT n20 2	412MHz 4z 4z Mode /	Auto FFT	Emissio	n 2.4:	(₩) 3.20 dBm	-
Ref Leve Att SGL Coun 1Pk Max 10 dBm	m el 20.00 dBn 30 dB	n Offset 10).08 dB 👄	NT n20 2	412MHz 4z 4z Mode / M1	Auto FFT	Emissio	n 2.4:	3.20 dBm [44600 GHz 33.54 dBm	-
Ref Leve Att SGL Coun 1Pk Max	m el 20.00 dBn 30 dB	n Offset 10).08 dB 👄	NT n20 2	412MHz 4z 4z Mode / M1	Auto FFT		n 2.4:	3.20 dBm [44600 GHz 33.54 dBm	_
Ref Leve Att SGL Coun 1Pk Max 10 dBm	m el 20.00 dBn 30 dB	n Offset 10 3 SWT 22).08 dB 👄	NT n20 2	412MHz 4z 4z Mode / M1	Auto FFT	Emissio	n 2.4:	3.20 dBm [44600 GHz 33.54 dBm	-
Ref Leve Att SGL Coun 1Pk Max 10 dBm	m el 20.00 dBn 30 df 100/100	n Offset 10 3 SWT 22	0.08 dB ● 27.5 μs ●	NT n20 2 RBW 100 kH VBW 300 kH	412MHz 42 Mode / 	Auto FFT [1] [1]	privales	n 2.4:	3.20 dBm 144600 GHz -33.54 dBm pp000 GHz	-
Ref Leve Att SGL Coun 1Pk Max 10 dBm	m el 20.00 dBn 30 df 100/100	n Offset 10 3 SWT 22	0.08 dB ● 27.5 μs ●	NT n20 2 RBW 100 kH VBW 300 kH	412MHz 42 Mode / 	Auto FFT [1] [1]	privales	n 2.4:	3.20 dBm [44600 GHz 33.54 dBm	-
Ref Leve Att SGL Coun 1Pk Max 10 dBm- 0 dBm- -10 dBm- -20 dBm -30 dBm- -40 dBm-	m el 20.00 dBn 30 df 100/100	n Offset 10 3 SWT 22	0.08 dB ● 27.5 μs ●	NT n20 2 RBW 100 kH VBW 300 kH	412MHz 42 Mode / 	Auto FFT [1] [1]	privales	n 2.4:	3.20 dBm 144600 GHz -33.54 dBm pp000 GHz	-
Ref Leve Att SGL Coun 1Pk Max 10 dBm	m el 20.00 dBn 30 df 100/100	n Offset 10 3 SWT 22	0.08 dB ● 27.5 μs ●	NT n20 2 RBW 100 kH VBW 300 kH	412MHz 42 Mode / 	Auto FFT [1] [1]	privales	n 2.4:	3.20 dBm 144600 GHz -33.54 dBm pp000 GHz	-
Ref Leve Att SGL Coun 1Pk Max 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	m el 20.00 dBn 30 df 100/100	n Offset 10 3 SWT 22	0.08 dB ● 27.5 μs ●	NT n20 2 RBW 100 kH VBW 300 kH	412MHz 42 Mode / 	Auto FFT [1] [1]	privales	n 2.4:	3.20 dBm 144600 GHz -33.54 dBm pp000 GHz	-
Ref Leve Att SGL Coun IPk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	m el 20.00 dBn 30 df 100/100	n Offset 10 3 SWT 22	0.08 dB ● 27.5 μs ●	NT n20 2 RBW 100 kH VBW 300 kH	412MHz 42 Mode / 	Auto FFT [1] [1]	privales	n 2.4:	3.20 dBm 144600 GHz -33.54 dBm pp000 GHz	
Ref Leve Att SGL Coun 1Pk Max 10 dBm -10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm	m el 20.00 dBn 30 di 100/100	n Offset 10 3 SWT 22	0.08 dB ● 27.5 μs ●	NT n20 2 RBW 100 kH VBW 300 kH	412MHz 42 Mode / 12 Mode /	Auto FFT [1] [1]	privales	n 2.4: M1 www.w.P.H	3.20 dBm 144600 GHz 	-
Ref Leve Att SGL Coun IPk Max 10 dBm -10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm Start 2.32	m el 20.00 dBn 30 di 100/100	n Offset 10 3 SWT 22	0.08 dB ● 27.5 μs ●	NT n20 2 RBW 100 kH VBW 300 kH	412MHz 42 Mode / 12 Mode /	Auto FFT [1] [1]	privales	n 2.4: M1 www.w.P.H	3.20 dBm 144600 GHz -33.54 dBm pp000 GHz	
Ref Leve Att SGL Coun IPk Max 10 dBm -10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm Start 2.32	m el 20.00 dBn 30 dl 100/100 D1 -19.895	n Offset 10 3 SWT 22	0.08 dB ● 27.5 μs ●	NT n20 2 RBW 100 kH VBW 300 kH	412MHz 42 Mode / 12 Mode /	Auto FF T [1] [1] 4M2 4M2 4M2 4M2 4M2 4M2 4M2 4M2	M2 M2 HNA	n 2.4: M1 www.w.P.H	3.20 dBm 144600 GHz 	
Ref Leve Att SGL Coun IO dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -60 dBm -70 dBm Start 2.32 Marker Type M1	el 20.00 dBn 30 di 100/100	n Offset 10 3 SWT 22 dBm dBm	0.08 dB 27.5 µs 	NT n20 2 RBW 100 kH VBW 300 kH I I I I I I I I I I I I I	412MHz 42 Mode / M1 M2 M2 M1 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2	Auto FF T [1] [1] 4M2 4M2 4M2 4M2 4M2 4M2 4M2 4M2	M2 M2 HNA	n 2.4 M1 M1 M1 M1 M1 Stop	3.20 dBm 144600 GHz 	
Ref Leve Att SGL Coun 9 IPk Max 10 dBm -10 dBm -10 dBm -30 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm	el 20.00 dBn 30 df 100/100 D1 -19.895 27 GHz 27 GHz ef Trc 1 1 1	A Offset 10 SWT 22 A SWT 22 A SW	0.08 dB 27.5 μs 27.5 μs 6 GHz 4 GHz 9 GHz	NT n20 2 RBW 100 kł vBW 300	412MHz 42 42 Mode / M1 M2 M2 M1 M2 M1 M2 M2 M1 M2 M2 M1 M2 M2 M1 M2 M2 M2 M1 M2 M2 M1 M2 M2 M1 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2	Auto FF T [1] [1] 4M2 4M2 4M2 4M2 4M2 4M2 4M2 4M2	M2 M2 HNA	n 2.4 M1 M1 M1 M1 M1 Stop	3.20 dBm 144600 GHz 	
Ref Leve Att SGL Coun IPk Max 10 dBm -10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm Start 2.32 Marker Type M1	el 20.00 dBn 30 di 100/100	A Offset 10 3 SWT 22 dBm dBm dBm dBm dBm dBm dBm dBm dBm dBm	0.08 dB 27.5 μs 27.5 μs 6 GHz 4 GHz 9 GHz	NT n20 2 RBW 100 kł VBW 300 kł VBW 300 kł NO NO NO NO NO NO NO NO NO NO	412MHz 42 42 Mode / M1 M2 M2 M1 M2 M1 M2 M2 M1 M2 M2 M1 M2 M2 M1 M2 M2 M2 M1 M2 M2 M1 M2 M2 M1 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2	Auto FF T [1] [1] 4M2 4M2 4M2 4M2 4M2 4M2 4M2 4M2	M2 M2 Func	n 2.4 M1 M1 M1 M1 M1 Stop	3.20 dBm 3.20 dBm 33.54 dBm 33.54 dBm 90000 GHz 44600 GHz 2.427 GHz	









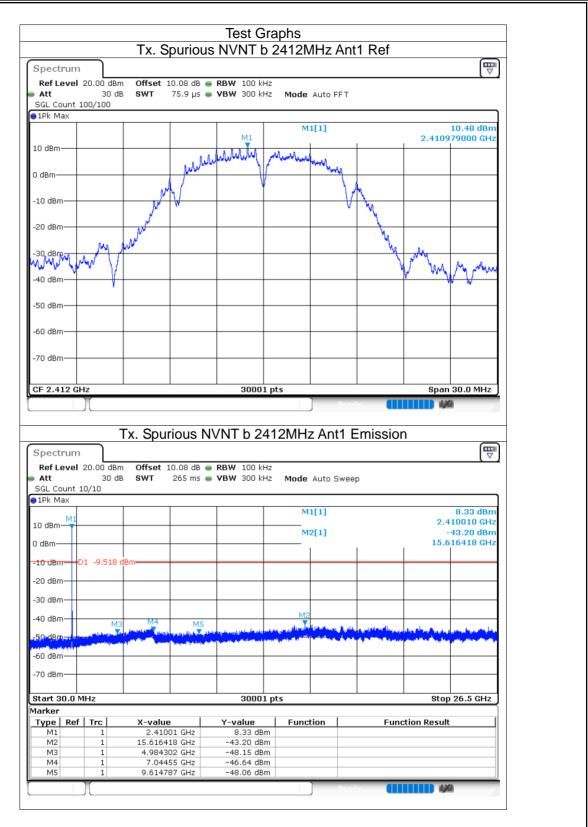


8.7 CONDUCTED RF SPURIOUS EMISSION

0.1 0											
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict					
NVNT	b	2412	Ant1	-53.67	-20	Pass					
NVNT	b	2437	Ant1	-52.01	-20	Pass					
NVNT	b	2462	Ant1	-53.56	-20	Pass					
NVNT	g	2412	Ant1	-47.71	-20	Pass					
NVNT	g	2437	Ant1	-49.22	-20	Pass					
NVNT	g	2462	Ant1	-46.42	-20	Pass					
NVNT	n20	2412	Ant1	-43.44	-20	Pass					
NVNT	n20	2437	Ant1	-42.85	-20	Pass					
NVNT	n20	2462	Ant1	-43.61	-20	Pass					

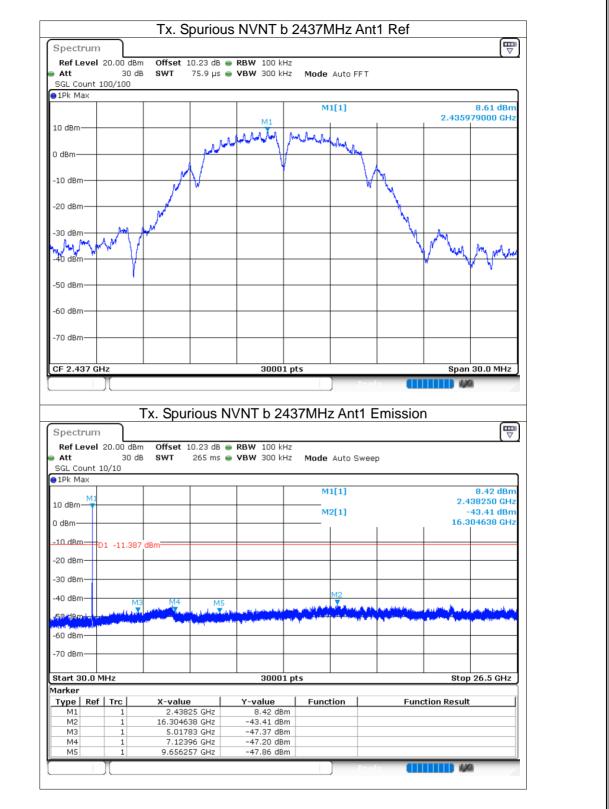






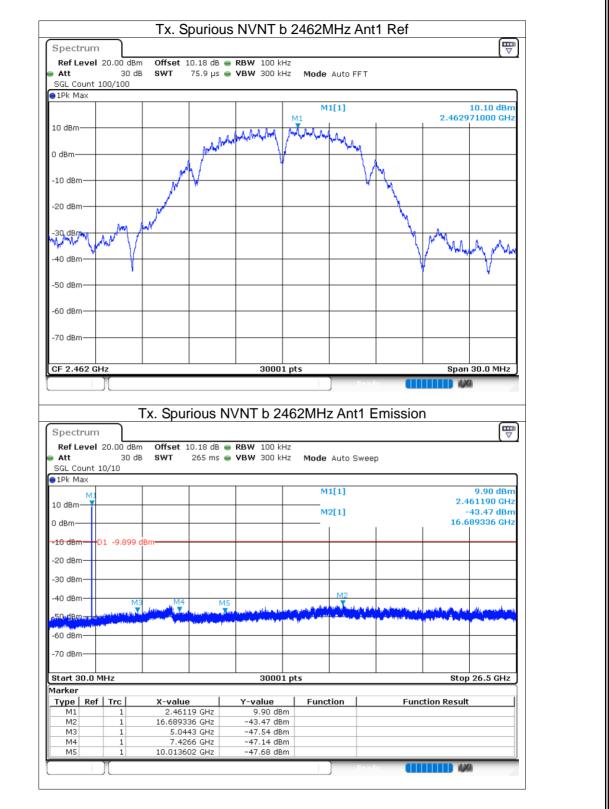






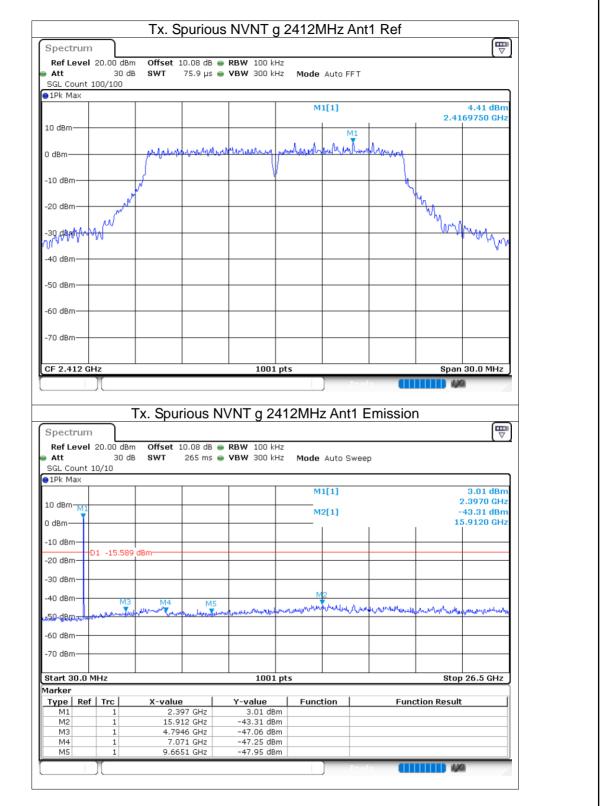






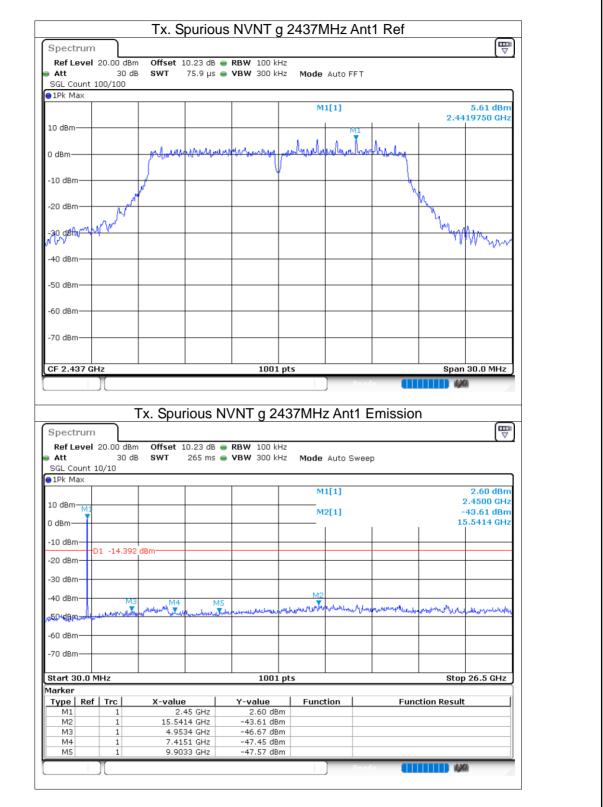






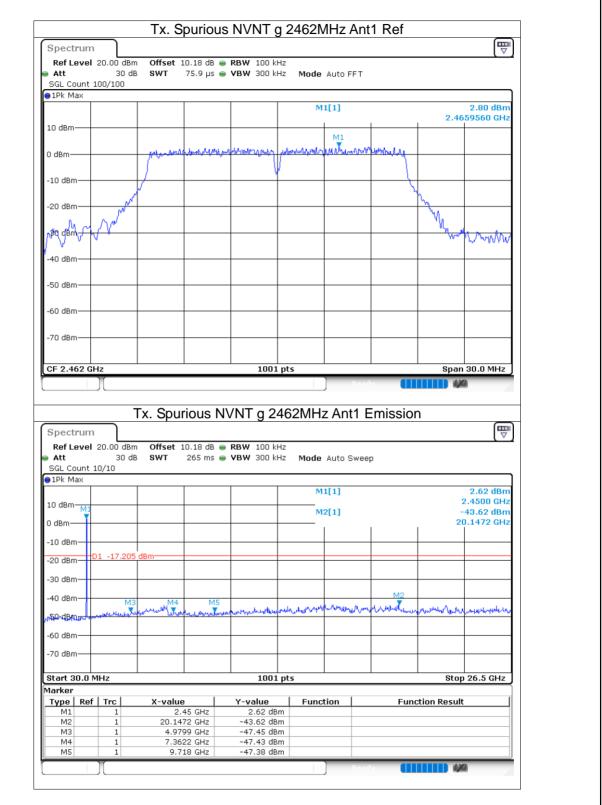












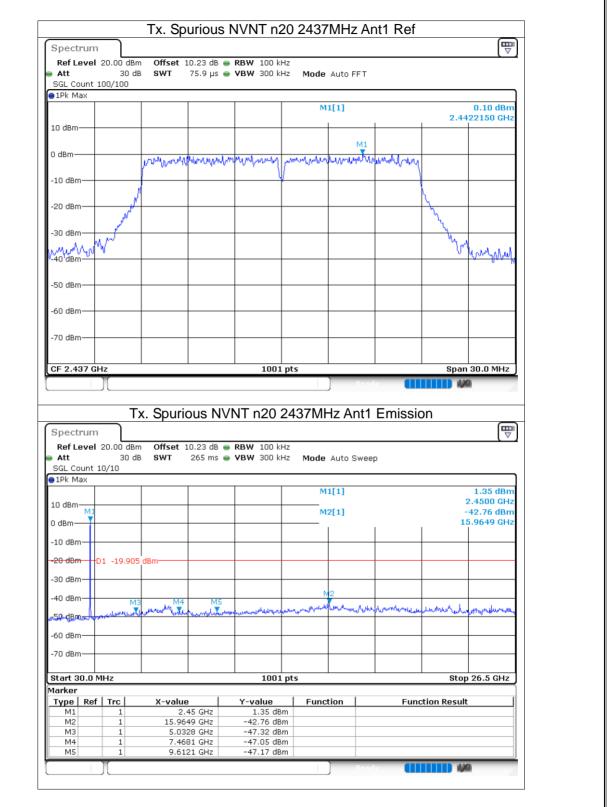


















END OF REPORT