



RADIO TEST REPORT FCC ID: 2A27O-IDN08

Product: Mini PC

Trade Mark: Azeyou Model No.: IDN08-N100 iAN08P, iAN09P, iAN10P, iAN11P, Family Model: iAN12P, iAN13P, iAN14P, iAN15P, iAN16P, iAN17P, iAN19P, iAN20P Report No.: S24101203202002 Issue Date: Nov. 01, 2024

Prepared for

Dongguan Lianzhou Electronic Technology Co., Ltd.

Building 1, No. 10, Feng Gang Technology Road, Feng Gang Town, Dong Guan City, GuangDong Province.

Prepared by

Shenzhen NTEK Testing Technology Co., Ltd. 1/F, Building E, Fenda Science Park Sanwei, Xixiang, Bao'an District, Shenzhen, Guangdong, China

Tel. 0755-23200050 Website: http://www.ntek.org.cn





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1 TEST RESULT CERTIFICATION

Applicant's name:	Dongguan Lianzhou Electronic Technology Co., Ltd.
Address:	Building 1, No. 10, Feng Gang Technology Road, Feng Gang Town,
	DongGuan City, GuangDong Province.
Manufacturer's Name	Dongguan Lianzhou Electronic Technology Co., Ltd.
Address	Building 1, No. 10, Feng Gang Technology Road, Feng Gang Town,
	DongGuan City, GuangDong Province.
Product description	
Product name:	Mini PC
Trade Mark:	Azeyou
Model and/or type reference:	IDN08-N100
Family Model:	iAN08P, iAN09P, iAN10P, iAN11P, iAN12P, iAN13P, iAN14P, iAN15P, iAN16P, iAN17P, iAN19P, iAN20P
Test Sample Number	S241012032003
Date (s) of performance of tests	Oct. 12, 2024 ~ Nov. 01, 2024

Measurement Procedure Used:

APPLICABLE STANDARDS			
APPLICABLE STANDARD/ TEST PROCEDURE	TEST RESULT		
FCC 47 CFR Part 2, Subpart J			
FCC 47 CFR Part 15, Subpart C	Complied		
ANSI C63.10-2013	Complied		
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.

Gavan Zhang Gavan Zhang By Aaron Cheng By Aaron Cheng By Prepared . By Alex Li (Project Engineer) (Supervisor) (Manager)



2 SUMMARY OF TEST RESULTS

FCC Part15 (15.247), Subpart C							
Standard Section Test Item Verdict Remark							
15.207	Conducted Emission	PASS					
15.247 (a)(2)	6dB Bandwidth	PASS					
15.247 (b) Peak Output Power PAS							
15.209 (a) 15.205 (a)	Radiated Spurious Emission	PASS					
15.247 (e)	Power Spectral Density	PASS					
15.247 (d)	Band Edge Emission	PASS					
15.247 (d) Spurious RF Conducted Emission PASS							
15.203	Antenna Requirement	PASS					

Remark:

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

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



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
	This laboratory is accredited in accordance with the recognized
	International Standard ISO/IEC 17025:2005 General requirements for
	the competence of testing and calibration laboratories.
	This accreditation demonstrates technical competence for a defined
	scope and the operation of a laboratory quality management system
	(refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).
Name of Firm	Shenzhen NTEK Testing Technology Co., Ltd.
Site Location	1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang
	Street, Bao'an District, Shenzhen 518126 P.R. 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	±2.80dB
2	RF power, conducted	±0.16dB
3	Spurious emissions, conducted	±0.21dB
4	All emissions, radiated(30MHz~1GHz)	±2.64dB
5	All emissions, radiated(1GHz~6GHz)	±2.40dB
6	All emissions, radiated(>6GHz)	±2.52dB
7	Temperature	±0.5°C
8	Humidity	±2%
9	All emissions, radiated(9KHz~30MHz)	±6dB
10	Occupied Channel Bandwidth	±3.7dB

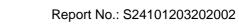


4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification					
Equipment Mini PC					
Trade Mark	Azeyou				
FCC ID	2A27O-IDN08				
Model No.	IDN08-N100				
Family Model	iAN08P, iAN09P, iAN10P, iAN11P, iAN12P, iAN13P, iAN14P, iAN15P, iAN16P, iAN17P, iAN19P, iAN20P				
Model Difference	All models are the same circuit and RF module, except for model names.				
Operating Frequency	2402MHz~2480MHz				
Modulation	GFSK				
Number of Channels	40 Channels				
Antenna Type	PIFA antenna				
Antenna Gain	3.36 dBi				
Adapter	Model: BSY036A120300U W Input: 100-240V~, 50/60Hz, 1.0A, Max. Output: 12.0V3.0A 36.0W				
Battery	N/A				
Rating(s)	DC 12V from adapter				
HW Version	EM_IDN08_V2.0				
SW Version WINDOWS 11					

Note 1: 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.





Povicion History

ACCREDITED Certificate #4298.01

ilac-M

Report No.	Manala a	Description	
	Version	Description	Issued Date
S24101203202002	Rev.01	Initial issue of report	Nov. 01, 2024



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.

Certificate #4298 01

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 (1Mbps/ 2Mbps for GFSK modulation) 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 X-plane results were found as the worst case and were shown in this report.

Carrier Frequency and Channel list:

Channel	Frequency(MHz)
0	2402
1	2404
19	2440
20	2442
38	2478
39	2480

Note: fc=2402MHz+kx2MHz k=0 to 39

The following summary table is showing all test modes to demonstrate in compliance with the standard.

Test Cases				
Test Item Data Rate/ Modulation				
AC Conducted Emission	Mode 1: normal link mode			
	Mode 1: normal link mode			
Radiated Test	Mode 2: GFSK Tx Ch00_2402MHz_1Mbps/ 2Mbps			
Cases	Mode 3: GFSK Tx Ch19_2440MHz_1Mbps/ 2Mbps			
	Mode 4: GFSK Tx Ch39_2480MHz_1Mbps/ 2Mbps			
Conducted Test	Mode 2: GFSK Tx Ch00_2402MHz_1Mbps/ 2Mbps			
Conducted Test	Mode 3: GFSK Tx Ch19_2440MHz_1Mbps/ 2Mbps			
Cases	Mode 4: GFSK Tx Ch39_2480MHz_1Mbps/ 2Mbps			

Note:

1. The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.

2. AC power line Conducted Emission was tested under maximum output power.

3. For radiated test cases, the worst mode data rate 2Mbps was reported only, because this data rate has the highest RF output power at preliminary tests, and no other significantly frequencies found in conducted spurious emission.





SETUP OF EQUIPM				
	ONFIGURATION OF TE	SISYSIEM		
or AC Conducted Emission I AC PLUG	NOGE			C-3
E-1 ————————————————————————————————————	C-1 EUT	C-2 E-2 Monitor	E-3 Monit	
C-4 E-4 KB	C-5 C-6 E-5 Mouse	AC PLUG E-6 Earphone	AC PLUG	
or Radiated Test Cases				
	EUT			
or Conducted Test Cases				
Measurement Instrument	EUT			
ote: The temporary antenrests and this temporary anter				form conduc





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	BSY036A120300U W	N/A	Peripherals
AE-2	Monitor	N/A	N/A	Peripherals
AE-3	Monitor	N/A	N/A	Peripherals
AE-4	KB	N/A	N/A	Peripherals
AE-5	Mouse	N/A	N/A	Peripherals
AE-6	Earphone	N/A	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	Power Cable	NO	NO	1.0m
C-2	HDMI Cable	YES	YES	1.0m
C-3	HDMI Cable	YES	YES	1.0m
C-4	USB Cable	NO	NO	1.2m
C-5	USB Cable	NO	NO	1.2m
C-6	Earphone Cable	NO	NO	1.2m
C-7	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".





6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test equipment

		cst cquipment					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibrati on period
1	Spectrum Analyzer	Agilent	E4440A	MY41000130	2024.04.26	2025.04.25	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2024.04.25	2025.04.24	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2024.04.25	2025.04.24	1 year
4	Test Receiver	R&S	ESPI7	101318	2024.04.26	2025.04.25	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2024.05.12	2025.05.11	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2024.04.26	2027.04.25	3 year
7	Horn Antenna	EM	EM-AH-1018 0	2011071402	2024.05.12	2027.05.11	3 year
8	Broadband Horn Antenna	SCHWARZBE CK	BBHA 9170	803	2024.05.12	2027.05.11	3 year
9	Amplifier	EMC	EMC051835 SE	980246	2024.04.25	2025.04.24	1 year
10	Active Loop Antenna	SCHWARZBE CK	FMZB 1519 B	055	2024.05.17	2027.05.16	3 year
11	Power Meter	DARE	RPR3006W	15I00041SN 084	2024.04.25	2025.04.24	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2023.05.06	2026.05.05	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2023.05.06	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	2024.04.26	2027.04.25	3 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



Certificate #4298.01

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	2024.04.26	2025.04.25	1 year
2	LISN	R&S	ENV216	101313	2024.04.25	2025.04.24	1 year
3	LISN	SCHWARZBE CK	NNLK 8129	8129245	2024.04.25	2025.04.24	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2024.04.26	2027.04.25	3 year
5	Test Cable (9KHz-30MH z)	N/A	C01	N/A	2023.05.06	2026.05.05	3 year
6	Test Cable (9KHz-30MH z)	N/A	C02	N/A	2023.05.06	2026.05.05	3 year
7	Test Cable (9KHz-30MH z)	N/A	C03	N/A	2023.05.06	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.

Measurement Software

Item	Manufacturer	Software Name	Software Version	Description
1	MWRFtest	MTS 8310 2.4GHz/5GHz	2.0	RF Conducted Test
2	Farad	EZ-EMC_RE	AIT-03A	RadiatedTest
3	raditeq	RadiMation	2023.1.3	RadiatedTest
4	Farad	EZ-EMC_CE	AIT-03A	AC Conducted Test





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

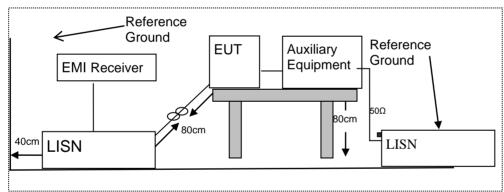
2. The lower limit shall apply at the transition frequencies

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:	Mini PC	Model Name :	IDN08-N100
Temperature:	22 ℃	Relative Humidity:	57%
Pressure:	1010hPa	Phase :	L
	DC 12V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

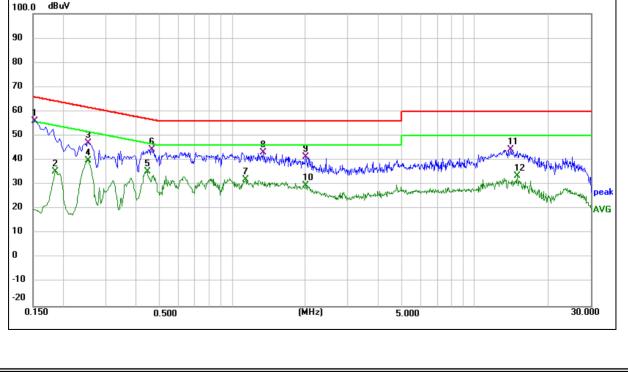
Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domork
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1539	46.17	10.00	56.17	65.79	-9.62	QP
0.1860	25.31	10.07	35.38	54.21	-18.83	AVG
0.2540	36.90	10.19	47.09	61.63	-14.54	QP
0.2540	29.79	10.19	39.98	51.63	-11.65	AVG
0.4460	24.81	10.59	35.40	46.95	-11.55	AVG
0.4660	33.62	10.63	44.25	56.58	-12.33	QP
1.1300	20.00	12.00	32.00	46.00	-14.00	AVG
1.3420	30.57	12.44	43.01	56.00	-12.99	QP
2.0020	31.68	9.81	41.49	56.00	-14.51	QP
2.0020	19.76	9.81	29.57	46.00	-16.43	AVG
14.0175	32.69	11.65	44.34	60.00	-15.66	QP
14.9700	21.77	11.83	33.60	50.00	-16.40	AVG

Remark:

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

2. Factor = Insertion Loss + Cable Loss.





Version.1.3





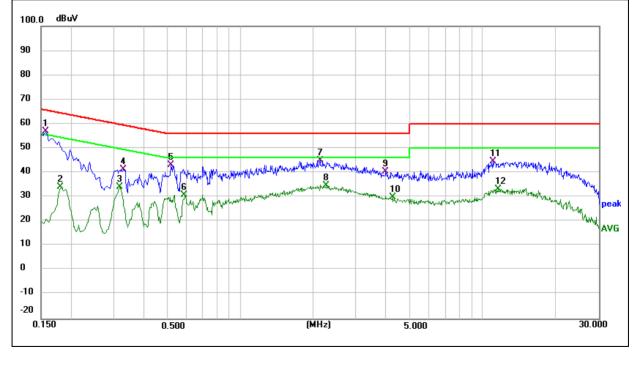
EUT:	Mini PC	Model Name :	IDN08-N100
Temperature:	22 ℃	Relative Humidity:	57%
Pressure:	1010hPa	Phase :	Ν
	DC 12V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1580	47.59	9.45	57.04	65.57	-8.53	QP
0.1819	24.62	9.48	34.10	54.40	-20.30	AVG
0.3180	24.28	9.73	34.01	49.76	-15.75	AVG
0.3300	31.62	9.75	41.37	59.45	-18.08	QP
0.5180	33.29	10.01	43.30	56.00	-12.70	QP
0.5899	20.62	10.15	30.77	46.00	-15.23	AVG
2.1300	35.81	9.07	44.88	56.00	-11.12	QP
2.2540	25.79	9.08	34.87	46.00	-11.13	AVG
3.9700	31.27	9.23	40.50	56.00	-15.50	QP
4.2340	20.83	9.26	30.09	46.00	-15.91	AVG
10.9657	45.23	-0.71	44.52	60.00	-15.48	QP
11.5297	34.40	-1.16	33.24	50.00	-16.76	AVG

Remark:

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

2. Factor = Insertion Loss + Cable Loss.



Version.1.3





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

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)

Frequency(MHz)	Class B (dBuV/m) (at 3M)						
i requency(ivii iz)	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.



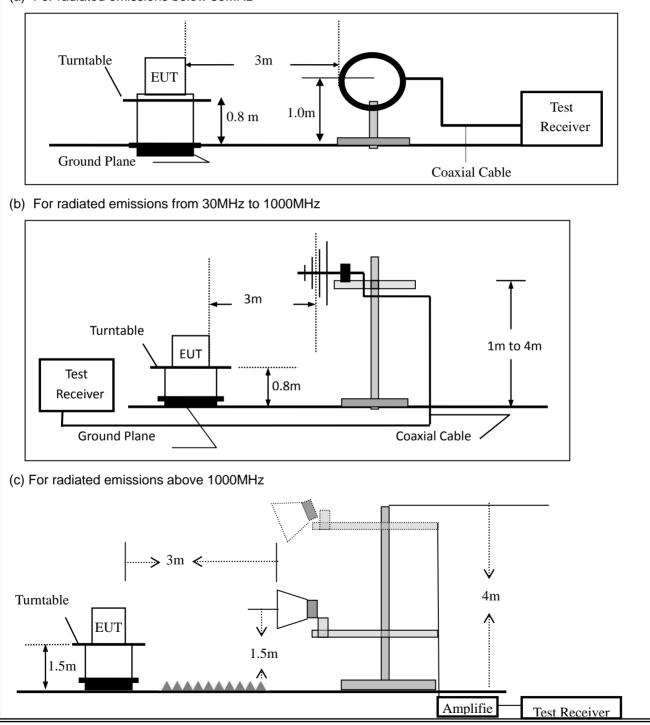


7.2.3 Measuring Instruments

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

7.2.4 Test Configuration

(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 / 1MHz 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. For frequencies above 1GHz, any suitable measuring distance may be used.

- b. The EUT was placed on the top of a rotating table 0.8 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:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Ab 200	Peak		1 MHz
Above 1000	Average	1 MHz	1 MHz

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*lg(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:	Mini PC	Model No.:	IDN08-N100
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode1/Mode2/Mode3/ Mode4	Test By:	Gavan Zhang

Freq.	Ant.Pol.	Emission L	.evel(dBuV/m)	Limit 3	m(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:	Mini PC	Model Name :	IDN08-N100
Temperature:	25 ℃	Relative Humidity:	55%
Pressure:	1010hPa	Test Mode:	Mode 4
Test Voltage :	DC 12V		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	30.9618	16.14	17.38	33.52	40.00	-6.48	QP
V	68.8721	14.04	17.00	31.04	40.00	-8.96	QP QP QP QP QP QP
V	97.4560	15.90	16.64	32.54	43.50	-10.96	QP
V	245.0900	15.55	18.92	34.47	46.00	-11.53	QP
V	428.0192	15.07	22.89	37.96	46.00	-8.04	QP
V	513.6331	16.38	24.31	40.69	46.00	-5.31	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)	rtoniant
Н	77.0502	16.53	14.85	31.38	40.00	-8.62	QP
Н	97.7980	13.15	16.58	29.73	43.50	-13.77	QP
Н	154.8204	19.96	14.67	34.63	43.50	-8.87	QP
Н	187.0954	15.03	16.84	31.87	43.50	-11.63	QP
Н	308.9125	16.30	20.09	36.39	46.00	-9.61	QP
Н	451.1350	12.44	23.25	35.69	46.00	-10.31	QP
	n Level= Meter BuV/m						
70							
60							
50							
40			Эж,		5 6	1 when the state	and from the
30	men above Aprila April a April	March Land	Mutur and a way	hand when the property of the second s	for any for the	C	
10							
0.0							
30.000		.00		MHz)	300.00		1000.000





■ Spurious	s Emiss	sion Above	e 1GHz (1G	Hz to 25	GHz)						
EUT:		Mini PC		M	odel No.:		IDN)8-N100			
Temperature	e:	20 °C		Re	elative Humidi	ity:	48%				
Test Mode:		Mode2/Mo	ode3/Mode4	4 Te	est By:		Gava	an Zhang			
							I.				
Frequency	Read Level		Antenna Factor	Preamp Factor		Lim	its	Margin	Rema	ark	Comment
(MHz)	(dBµV	/) (dB)	dB/m	(dB)	(dBµV/m)	(dBµ\	//m)	(dB)			
Low Channel (2402 MHz)(GFSK)Above 1G											
4804	68.19	5.21	35.59	44.30	64.69	74.	00	-9.31	Pk		Vertical
4804	49.88	3 5.21	35.59	44.30	46.38	54.	00	-7.62	AV		Vertical
7206	68.94	6.48	36.27	44.60	67.09	74.	00	-6.91	Pk		Vertical
7206	47.59	6.48	36.27	44.60	45.74	54.	00	-8.26	AV		Vertical
4804	69.67	7 5.21	35.55	44.30	66.13	74.	00	-7.87	Pk	Horizontal	
4804	49.30	5.21	35.55	44.30	45.76	54.	00	-8.24	AV	Horizontal	
7206	69.01	6.48	36.27	44.52	67.24	74.	00	-6.76	Pk	Horizontal	
7206	49.76	6.48	36.27	44.52	47.99	54.	00	-6.01	AV	Horizontal	
			Mid Cha	annel (24	40 MHz)(GFSK	()Abov	ve 1G				
4880	70.14	5.21	35.66	44.20	66.81	74.	00	-7.19	Pk		Vertical
4880	50.07	7 5.21	35.66	44.20	46.74	54.	00	-7.26	AV		Vertical
7320	69.70	7.10	36.50	44.43	68.87	74.	00	-5.13	Pk		Vertical
7320	46.19	7.10	36.50	44.43	45.36	54.	00	-8.64	AV		Vertical
4880	69.99	9 5.21	35.66	44.20	66.66	74.	00	-7.34	Pk	ŀ	lorizontal
4880	46.69	9 5.21	35.66	44.20	43.36	54.	00	-10.64	AV	ŀ	lorizontal
7320	69.87	7.10	36.50	44.43	69.04	74.	00	-4.96	Pk	F	lorizontal
7320	47.27	7.10	36.50	44.43	46.44	54.	00	-7.56	AV	ŀ	lorizontal
			High Cha	annel (24	80 MHz)(GFSk	() Abc	ove 10	3			
4960	70.19	5.21	35.52	44.21	66.71	74.	00	-7.29	Pk		Vertical
4960	46.32	2 5.21	35.52	44.21	42.84	54.	00	-11.16	AV		Vertical
7440	69.90	7.10	36.53	44.60	68.93	74.	00	-5.07	Pk		Vertical
7440	47.72	2 7.10	36.53	44.60	46.75	54.	00	-7.25	AV		Vertical
4960	68.44	5.21	35.52	44.21	64.96	74.	00	-9.04	Pk	ŀ	lorizontal
4960	50.55	5 5.21	35.52	44.21	47.07	54.	00	-6.93	AV	ŀ	lorizontal
7440	70.59	7.10	36.53	44.60	69.62	74.	00	-4.38	Pk	ŀ	lorizontal
7440	50.24	7.10	36.53	44.60	49.27	54.	00	-4.73	AV	ŀ	lorizontal

Note:

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

(2)All other emissions more than 20dB below the limit.

(3)Only the worst data is recorded in the report, the data rates (2Mbps for GFSK modulation) test result is the worst





Ρk

AV

Pk

AV

Vertical

Vertical

Horizontal

Horizontal

-18.61

-21.62

-17.71

-20.60

E	UT:	Mini PC			Μ	Model No.:			IDN08-N100			
Т	emperature:	20 ℃			R	Relative Humidity:			48%			
Т	est Mode:	Mode2/	Mode4		Т	est	By:		Gava	an Zhang	1	
					_							
	Frequency	Meter Reading	Cable Loss	Antenna Factor	Prean Facto		Emission Level	Lim	iits	Margin	Detector	Comment
	(MHz)	(MHz) (dBµV) (dB)		dB/m (d)	(dBµV/m) (dBµV/		V/m)	(dB)	Туре	
					2	2Mbps(GFSK)						
	2310.00	70.76	2.97	27.80	43.8	0	57.73	74	4	-16.27	Pk	Horizontal
	2310.00	50.10	2.97	27.80	43.8	80	37.07	54	4	-16.93	AV	Horizontal
	2310.00	69.54	2.97	27.80	43.8	80	56.51	74	4	-17.49	Pk	Vertical
	2310.00	45.96	2.97	27.80	43.8	80	32.93	54	4	-21.07	AV	Vertical
	2390.00	69.93	3.14	27.21	43.8	80	56.48	74	4	-17.52	Pk	Vertical
	2390.00	45.08	3.14	27.21	43.8	80	31.63	54	4	-22.37	AV	Vertical
	2390.00	69.21	3.14	27.21	43.8	80	55.76	74	4	-18.24	Pk	Horizontal
	2390.00	45.16	3.14	27.21	43.8	0	31.71	54	4	-22.29	AV	Horizontal

Note: (1) All other emissions more than 20dB below the limit.

3.58

3.58

3.58

3.58

27.70

27.70

27.70

27.70

44.00

44.00

44.00

44.00

(2)Only the worst data is recorded in the report, the data rates (2Mbps for GFSK modulation) test result is the worst

55.39

32.38

56.29

33.40

74

54

74

54

2483.50

2483.50

2483.50

2483.50

68.11

45.10

69.01

46.12





UT:	Mini P0	C		Mod	Model No.:		IDN08-N100			
emperature:	20 °C			Rela	Relative Humidity:		48%			
est Mode:	Mode2	/ Mode4	ŀ	Test	By:		Gava	an Zhang		
Frequency	Reading Level	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Lin	nits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµ	V/m)	(dB)	Туре	
3260	69.86	4.04	29.57	44.70	58.77	7	4	-15.23	Pk	Vertical
3260	49.37	4.04	29.57	44.70	38.28	5	4	-15.72	AV	Vertical
3260	69.16	4.04	29.57	44.70	58.07	7	4	-15.93	Pk	Horizontal
3260	46.79	4.04	29.57	44.70	35.70	5	4	-18.30	AV	Horizontal
3332	68.39	4.26	29.87	44.40	58.12	7	4	-15.88	Pk	Vertical
3332	48.21	4.26	29.87	44.40	37.94	5	4	-16.06	AV	Vertical
3332	68.54	4.26	29.87	44.40	58.27	7	4	-15.73	Pk	Horizontal
3332	45.03	4.26	29.87	44.40	34.76	5	4	-19.24	AV	Horizontal
17797	49.76	10.99	43.95	43.50	61.20	7	4	-12.80	Pk	Vertical
17797	35.65	10.99	43.95	43.50	47.09	5	4	-6.91	AV	Vertical
17788	54.1	11.81	43.69	44.60	65.00	7	4	-9.00	Pk	Horizontal
17788	34.1	11.81	43.69	44.60	45.00	5	4	-9.00	AV	Horizontal

Note: (1) All other emissions more than 20dB below the limit.

(2)Only the worst data is recorded in the report, the data rates (2Mbps for GFSK modulation) test result is the worst





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:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) \geq 3*RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.

g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

7.3.6 Test Results

EUT:	Mini PC	Model No.:	IDN08-N100
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Gavan Zhang





7.4 DUTY CYCLE

7.4.1 Applicable Standard

According to KDB 558074 D01 15.247 Meas Guidance v05r02s 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

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. Set the center frequency of the instrument to the center frequency of the transmission. Set RBW \geq OBW if possible; otherwise, set RBW to the largest available value. Set VBW \geq RBW. Set detector = peak or average. 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 duty cycle shall not be used if T \leq 16.7 microseconds.)

The transmitter output is connected to the Spectrum Analyzer. We tested accroding to the zero-span measurement method, 6.0)b) in KDB 558074

The largest available value of RBW is 8 MHz and VBW is 50 MHz. The zero-span method of measuring duty cycle shall not be used if $T \le 6.25$ microseconds. (50/6.25 = 8)

The zero-span method was used because all measured T data are > 6.25 microseconds and both RBW and VBW are > 50/T.

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 = Zero Span RBW = 8MHz(the largest available value) VBW = 8MHz (\geq RBW) Number of points in Sweep >100 Detector function = peak Trace = Clear write Measure T_{total} and T_{on} Calculate Duty Cycle = T_{on} / T_{total}





7.4.6 Test Results

EUT:	Mini PC	Model No.:	IDN08-N100
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Gavan Zhang





7.5 **PEAK 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 8.3.1.

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

7.5.4 Test Setup

Please refer to Section 6.1 of this test report.

7.5.5 Test Procedure

The testing follows Subclause 11.9.1.1 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: Set the RBW \geq DTS bandwidth. Set VBW =3*RBW. Set the span \geq 3*RBW Set Sweep time = auto couple. Set Detector = peak. Set Trace mode = max hold. Allow trace to fully stabilize. Use peak marker function to determine the peak amplitude level.

7.5.6 Test Results

EUT:	Mini PC	Model No.:	IDN08-N100
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Gavan Zhang



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.

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.

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

b) Set the span to 1.5*DTS bandwidth.

c) Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.

- 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:	Mini PC	Model No.:	IDN08-N100
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Gavan Zhang



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:	Mini PC	Model No.:	IDN08-N100
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode4	Test By:	Gavan Zhang





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 25GHz.

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 Permanently attached PIFA antenna (Gain: 3.36 dBi). It comply with the standard requirement.





8 TEST RESULTS

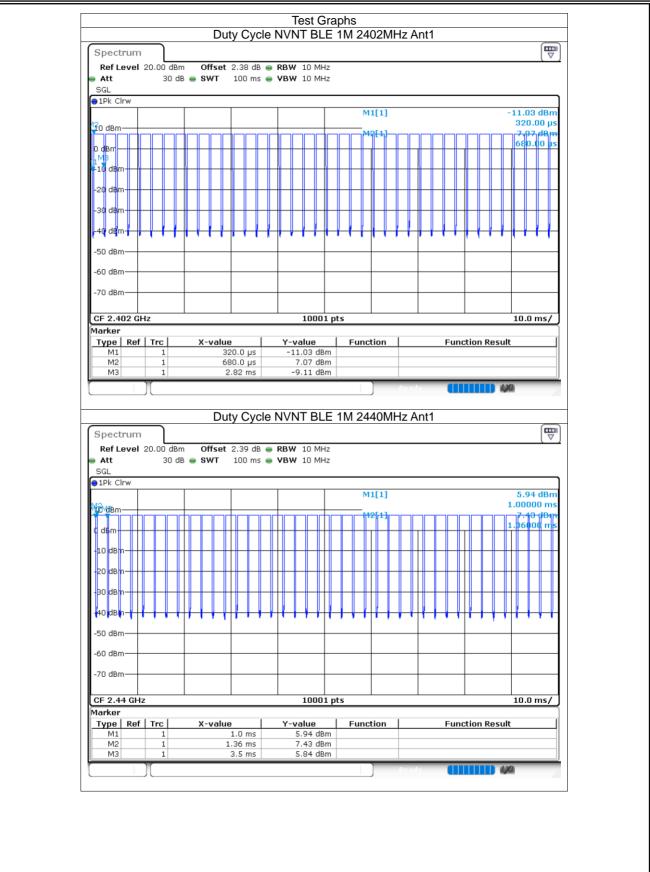
8.1 **8.1 1M**

8.1.1 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	86	0.65	0.47
NVNT	BLE 1M	2440	Ant1	86	0.65	0.47
NVNT	BLE 1M	2480	Ant1	85.6	0.68	0.47

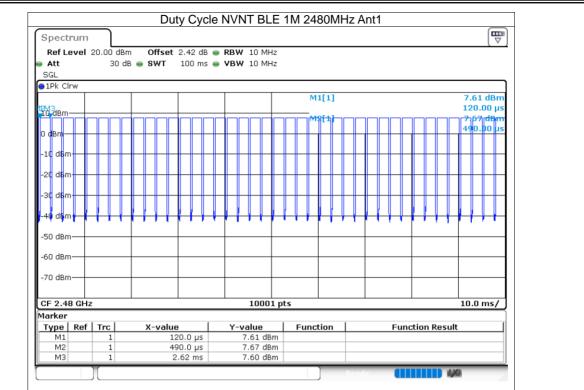














8.1.2 Maximum Conducted Output Power

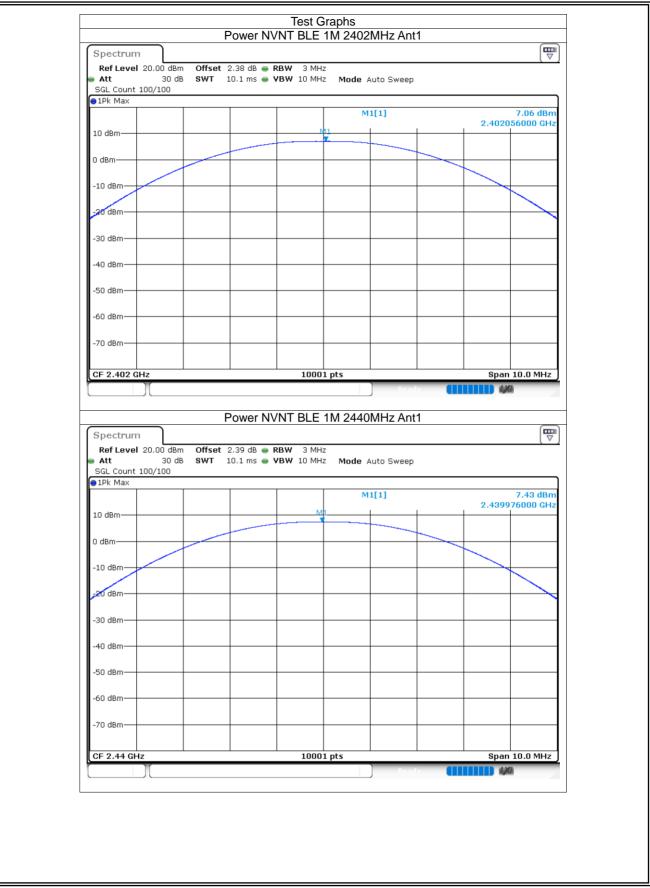
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	7.06	30	Pass
NVNT	BLE 1M	2440	Ant1	7.43	30	Pass
NVNT	BLE 1M	2480	Ant1	7.65	30	Pass

TED Certificate #4298.01

ACC











Att 30 dB SWT 10.1 ms VBW 10 MHz Mode Auto Sweep SGL Count 100/100 10/100 10 MHz M1[1] 7.65 2.480030000 10 dBm 0 M1 2.480030000 10 10 10 10 dBm 0 M1 10				RBW 3 MHz	2.42 dB 👄	Offset	 I 20.00 dBm	Spectrun Ref Level
1Pk Max M1[1] 7.65 0 dBm M1 2.480030000 dBm M1 0 10 dBm M1 0 20 dBm M1 0 30 dBm M1 0 50 dBm M1 0		uto Sweep	Mode .					
0 dBm M1[1] 7.65 0 dBm 0 10 10 dBm 0 0 30 dBm 0 0 40 dBm 0 0 50 dBm 0 0							100/100	
0 dBm 10 dBm 20 dBm 40 dBm 50 dBm 50 dBm 50 dBm 60 dBm 60 dBm 60 dBm 50 dBm	7.65 dBm	 			1			1Pk Max
0 dBm dBm 10 dBm 20 dBm 30 dBm 40 dBm 50 dBm 50 dBm 50 dBm 50 dBm		1[1]	IVI					
10 dBm 20 dBm 30 dBm 40 dBm 50 dBm	+	 		Μ				0 dBm
10 dBm 20 dBm 30 dBm 40 dBm 50 dBm						_		
20 dBm 30 dBm 40 dBm 50 dBm 50 dBm 50 dBm								dBm
20 dBm 30 dBm 40 dBm 50 dBm 50 dBm 50 dBm								
30 dBm 30 dBm 1 1 1 1 40 dBm 1 1 1 1 1 50 dBm 1 1 1 1 1 50 dBm 1 1 1 1 1								10 dBm-
30 dBm 30 dBm 1 1 1 1 40 dBm 1 1 1 1 1 50 dBm 1 1 1 1 1 50 dBm 1 1 1 1 1								
40 dBm								o dBm—
40 dBm								
50 dBm								30 dBm—
50 dBm								
50 dBm								40 dBm
50 dBm								D dBm
								JU UBIII
								50 dBm
70 dBm								oo abiii
								70 dBm
F 2.48 GHz 10001 pts Span 10.0 M				1000				F 0 40 C



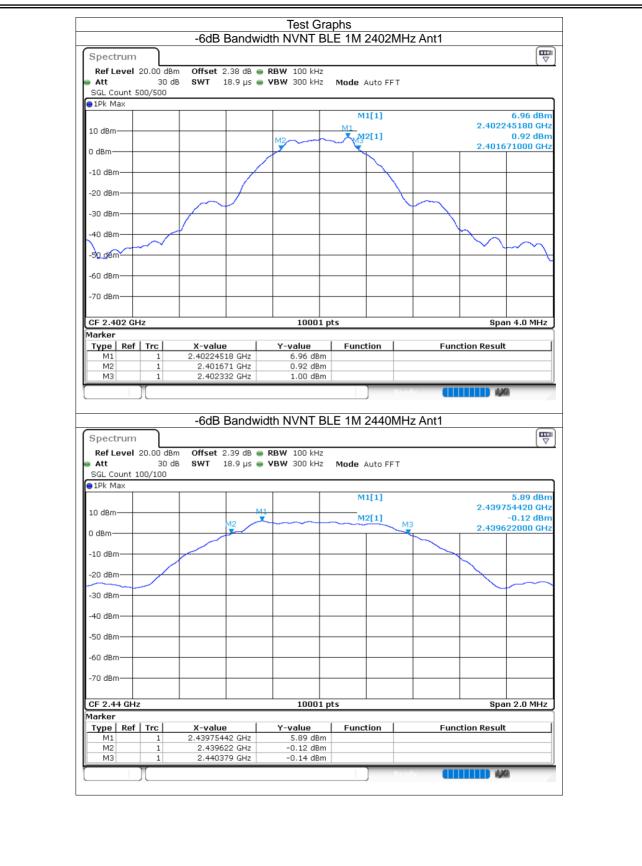


8.1.3-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.661	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.756	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.694	0.5	Pass











Spectrum							
Ref Level		m Offcot 2.42 dp	RBW 100 kHz				(🗸)
Att	20.00 UD 30 (-	Mode Auto FFT			
SGL Count :		ab oni 10.5 ps	• 101 300 KHZ	Mode Autorn			
1Pk Max	,						
				M1[1]			7.08 dBm
			MI			2,4799	97600 GHz
.0 dBm			-	M2[1] M3			1.11 dBm
		M2		MI3		2.4796	60000 GHz
) dBm							
10 dBm							
20 dBm							
20 0000							
30 dBm							r
40 dBm —							
50 dBm —							
60 dBm —							
70 dBm —							
CF 2.48 GH	z		10001 pt	s		Spa	n 2.0 MHz
arker							
Type Ref	Trc	X-value	Y-value	Function	Funct	ion Result	: 1
M1	1	2.4799976 GHz	7.08 dBm				
M2	1	2.47966 GHz	1.11 dBm				
M3	1	2.480354 GHz	1.09 dBm				





8.1.4 Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1M	2402	Ant1	1.032
NVNT	BLE 1M	2440	Ant1	1.033
NVNT	BLE 1M	2480	Ant1	1.031

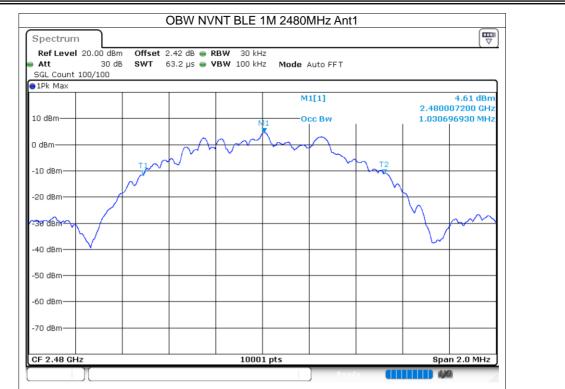














8.1.5 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-9.22	8	Pass
NVNT	BLE 1M	2440	Ant1	-9.26	8	Pass
NVNT	BLE 1M	2480	Ant1	-8.73	8	Pass





SGL Count 10		632.2 µs 🖷	VBW 10 kH	Z Mode /	Auto FFT			
				м	1[1]		2.4018	-9.22 dBm 31610 GHz
10 dBm								
0 dBm		M1						
-10 dBm	. MAR AND	when	Maral and	1°wwww.	hummen	munn	304 D	
-20,489,40 W	mmmp	· · · · · ·				• •	W WWWW	Maple Born
-30 dBm								
-40 dBm								
-50 dBm								
-60 dBm								
-70 dBm								
CF 2.402 GHz	: 		100:	l pts			Span 🖉	991.5 kHz
Spectrum		PSD NV	NT BLE '	IM 2440N	MHz Ant1			
Ref Level 20 Att SGL Count 10	30 dB SWT	PSD NV 2.39 dB ● F 632 µs ● V	RBW 3 kHz					
Ref Level 24 Att SGL Count 10 1Pk Max	30 dB SWT	2.39 dB 👄 F	RBW 3 kHz	Mode A			2.440	-9.26 dBm 02490 GHz
Ref Level 20 Att SGL Count 10	30 dB SWT	2.39 dB 👄 F	RBW 3 kHz	Mode A	uto FFT		2.440	-9.26 dBm
Ref Level 20 Att SGL Count 10 1Pk Max 10 dBm 0 dBm	30 dB SWT 00/1000	2.39 dB ● F 632 µs ● N	RBW 3 kHz /BW 10 kHz	Mode A	uto FFT			-9.26 dBm 02490 GHz
Ref Level 20 Att SGL Count 10 1Pk Max 10 dBm 0 dBm	30 dB SWT 00/1000	2.39 dB ● F 632 µs ● N	RBW 3 kHz /BW 10 kHz	Mode A	uto FFT			-9.26 dBm 02490 GHz
Ref Level 20 Att SGL Count 10 INK Max 10 dBm 0 dBm -10 dBm	30 dB SWT 00/1000	2.39 dB ● F 632 µs ● N	RBW 3 kHz /BW 10 kHz	Mode A	uto FFT			-9.26 dBm 02490 GHz
Ref Level 20 Att SGL Count 10 1Pk Max 10 dBm 0 dBm	30 dB SWT	2.39 dB ● F 632 µs ● N	RBW 3 kHz /BW 10 kHz	Mode A	uto FFT			-9.26 dBm
Ref Level 20 Att SGL Count 10 PIPK Max 10 dBm -10 dBm -20 dBm -20 dBm	30 dB SWT 00/1000	2.39 dB ● F 632 µs ● N	RBW 3 kHz /BW 10 kHz	Mode A	uto FFT			-9.26 dBm 02490 GHz
Ref Level 20 Att SGL Count 10 PIPK Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm	30 dB SWT 00/1000	2.39 dB ● F 632 µs ● N	RBW 3 kHz /BW 10 kHz	Mode A	uto FFT			-9.26 dBm 02490 GHz
Ref Level 20 Att SGL Count 10 IPk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	30 dB SWT 00/1000	2.39 dB ● F 632 µs ● N	RBW 3 kHz /BW 10 kHz	Mode A	uto FFT			-9.26 dBm 02490 GHz
Ref Level 20 Att SGL Count 10 ID dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm	30 dB SWT 00/1000	2.39 dB ● F 632 µs ● N	RBW 3 kHz /BW 10 kHz	Mode A	uto FFT			-9.26 dBm 02490 GHz
Ref Level 20 Att SGL Count 10 IPk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm	30 dB SWT 00/1000	2.39 dB ● F 632 µs ● N	RBW 3 kHz /BW 10 kHz	Mode A	uto FFT			-9.26 dBm 02490 GHz
Ref Level 20 Att SGL Count 10 ID dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm	30 dB SWT 00/1000	2.39 dB ● F 632 µs ● N	RBW 3 kHz /BW 10 kHz	Mode An	uto FFT		Margen Margen	-9.26 dBm 02490 GHz

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Ref Level 20.00)dBm Offset	2.42 dB 👄	RBW 3 kH	Z				
Att	30 dB SWT	632.1 µs 🖷			Auto FFT			
SGL Count 1000/	1000							
1Pk Max				м	1[1]			-8.73 dBm
					1(1)		2.480	02290 GHz
10 dBm								
0 dBm								
-10 dBm				M1				Manager
-10 dBm	. Anonmand	Maria	warehour	a harrents.	manphop	marian		
20 de mart	rwod v i						Man Mar an	Maria
KRAB.								and m
-30 dBm								
-40 dBm								
-50 dBm								
-60 dBm		+						
-70 dBm								
CF 2.48 GHz			1001	pts			Span :	1.041 MHz





8.1.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-64.31	-20	Pass
NVNT	BLE 1M	2480	Ant1	-64.02	-20	Pass

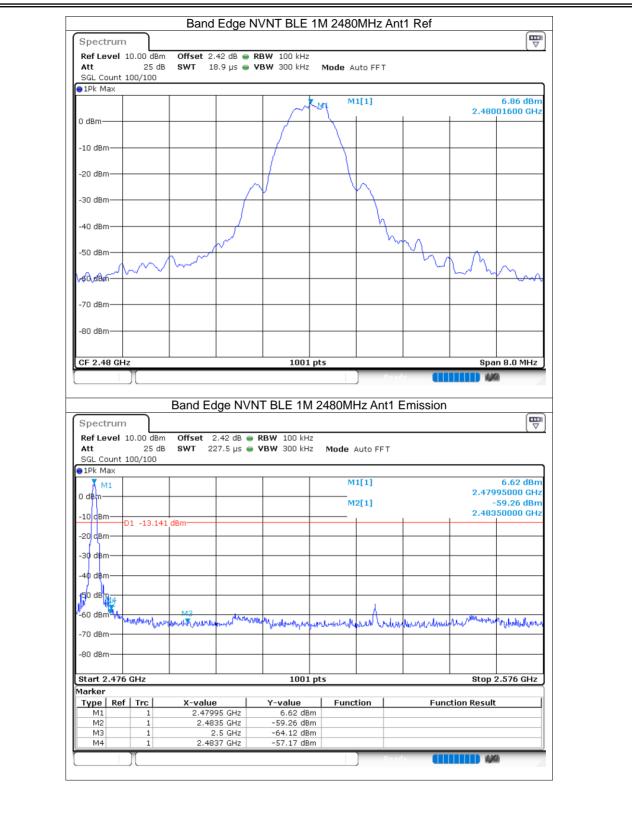




Att SGL Coun	25	dB SWT		RBW 100 kHz VBW 300 kHz	Mode Au	ito FFT			
				0*	M1	L[1]		0.40	5.69 dBn 200000 GH:
0 dBm					\rightarrow			2.40	
-10 dBm—									
					$\langle \rangle$				
-20 dBm—						~^			
-30 dBm—			+ /	+ +	¥				
-40 dBm—		_							
			m			L	~		
-50 dBm—	,	M	1				, m	Mar	
~60/dBm\∕_	m	V						m	p
-70 dBm—	<u> </u>	_		_					
00 JD									
-80 dBm—									
CF 2.402	GHz			1001	pts			Sp	an 8.0 MHz
Spectrui Ref Level Att	l 10.00 di	3m Offset	2.38 dB 👄	NT BLE 1M			mission		
Ref Level	L 10.00 di 25	Bm Offset dB SWT	2.38 dB 👄	RBW 100 kHz			mission		
Ref Level Att SGL Coun 1Pk Max	L 10.00 di 25	Bm Offset dB SWT	2.38 dB 👄	RBW 100 kHz	Mode A		mission	2.40	6.04 v lBn
Ref Level Att SGL Coun 1Pk Max 0 dBm-	L 10.00 di 25	Bm Offset dB SWT	2.38 dB 👄	RBW 100 kHz	Mode A	uto FFT	mission		6.04 ♥ Bn 175000 GH -46.75 (dBn
Ref Level Att SGL Coun 1Pk Max 0 dBm	L 10.00 di 25	Bm Offset dB SWT	2.38 dB 👄	RBW 100 kHz	Mode A	uto FFT	mission		6.04 y Bn 175000 GH
Ref Level Att SGL Coun • 1Pk Max 0 dBm	1 10.00 di 25 t 100/100	Bm Offset dB SWT	2.38 dB 👄	RBW 100 kHz	Mode A	uto FFT	mission		6.04 ♥ Bn 175000 GH -46.75 (dBn
Ref Level Att SGL Coun 1Pk Max 0 dBm -10 dBm -20 dBm -30 dBm	1 10.00 di 25 t 100/100	Bm Offset dB SWT	2.38 dB 👄	RBW 100 kHz	Mode A	uto FFT	mission		6.04 yBp 175000 GH -46.75 dBn 000000 GH
Ref Level Att SGL Coun • 1Pk Max 0 dBm	1 10.00 di 25 t 100/100	Bm Offset dB SWT	2.38 dB • 227.5 µs •	RBW 100 kHz	Mode A	uto FFT	mission		6.04 ♥ Bn 175000 GH -46.75 (dBn
Ref Level Att SGL Coun • 1Pk Max 0 dBm	0 10.00 di 25 t 100/100 D1 -14.3	3m Offset dB SWT	2.38 dB • 227.5 µs •	RBW 100 kHz VBW 300 kHz	Mode A M1 M2	L[1] 2[1]		2.40	6.04 dep 175000 GH: -46.75 den 000000 GH: M3
Ref Level Att SGL Coun 1Pk Max 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm	0 10.00 di 25 t 100/100 D1 -14.3	Bm Offset dB SWT	2.38 dB • 227.5 µs •	RBW 100 kHz VBW 300 kHz	Mode A M1 M2	L[1] 2[1]	mission	2.40	6.04 dep 175000 GH: -46.75 den 000000 GH: M3
Ref Level Att SGL Coun ● 1Pk Max 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm	0 10.00 di 25 t 100/100 D1 -14.3	3m Offset dB SWT	2.38 dB • 227.5 µs •	RBW 100 kHz VBW 300 kHz	Mode A M1 M2	L[1] 2[1]		2.40	6.04 dep 175000 GH: -46.75 den 000000 GH: M3
Ref Level Att SGL Coun • 1Pk Max 0 dBm -10 dBm -20 dBm -20 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm	1 10.00 di 25 t 100/100 D1 -14.3	3m Offset dB SWT	2.38 dB • 227.5 µs •	RBW 100 kHz VBW 300 kHz	Mode A M3 M2	L[1] 2[1]		2.40	6.04 VBp 175000 GH -46.75 (Bn 000000 GH M3 M3
Ref Level Att SGL Coun 9 IPk Max 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -80 dBm -80 dBm Start 2.30	D1 -14.3	Am Offset dB SWT	2.38 dB = 227.5 μs =	RBW 100 kHz VBW 300 kHz	Mode A	uto FF T נ[1] 2[1]	yr, wer, deeler fa	2.40	6.04 yBp 175000 GH -46.75 jdBn 000000 GH M3 M3 M3 M3 M2 M3 M2 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3
Ref Level Att SGL Coun • 1Pk Max 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -50 dBm -70 dBm -80 dBm -80 dBm Start 2.30 Marker Type Rd	1 10.00 di 25 t 100/100 D1 -14.	am Offset dB SwT 309 dBm עוזה אילעלאינע אשעל עוזה אילעלאינע אשעל ארצע אינע	2.38 dB 227.5 μs	RBW 100 kHz VBW 300 kHz	Mode A M3 M2 M2 M2 M2 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3	uto FF T נ[1] 2[1]	yr, wer, deeler fa	2.40	6.04 yBp 175000 GH -46.75 jdBn 000000 GH M3 M3 M3 M3 M2 M3 M2 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3
Ref Level Att SGL Coun • 1Pk Max 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -80 dBm -80 dBm Marker Type M1 M2 M3	1 10.00 d 25 t 100/100 D1 -14.3 D6 GHz ef Trc 1 1 1	אד Offset dB SwT 309 dBm עאז אלקווינעשא עאז אלקווינעשא ג-valu	2.38 dB = 227.5 μs = 4 4 4 4 4 4 4 4 4 4 4 4 4	RBW 100 kHz VBW 300 kHz	Mode A M1 M2 M2 M2 M2 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3	.uto FF T L[1] 2[1] 	yr, wer, deeler fa	2.40	6.04 yBp 175000 GH -46.75 jdBn 000000 GH M3 M3 M3 M3 M2 M3 M2 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3
Ref Level Att SGL Coun IPk Max 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -80 dBm	1 10.00 di 25 t 100/100 D1 -14.0 D1 -15	אד Offset dB SwT 309 dBm עאז אלקווינעשא עאז אלקווינעשא ג-valu	2.38 dB = 227.5 μs = 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	RBW 100 kHz VBW 300 kHz	Mode A M1 M2 M2 M2 M2 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3	.uto FF T L[1] 2[1] 	ງການປາດ, ກ່າວກໍາປາດ, ໃດ Func	2.40	6.04 UBp 175000 GH -46.75 JdBn 000000 GH M3 M3 M3 M3 M2 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3











8.1.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-58.41	-20	Pass
NVNT	BLE 1M	2440	Ant1	-58.83	-20	Pass
NVNT	BLE 1M	2480	Ant1	-57.5	-20	Pass

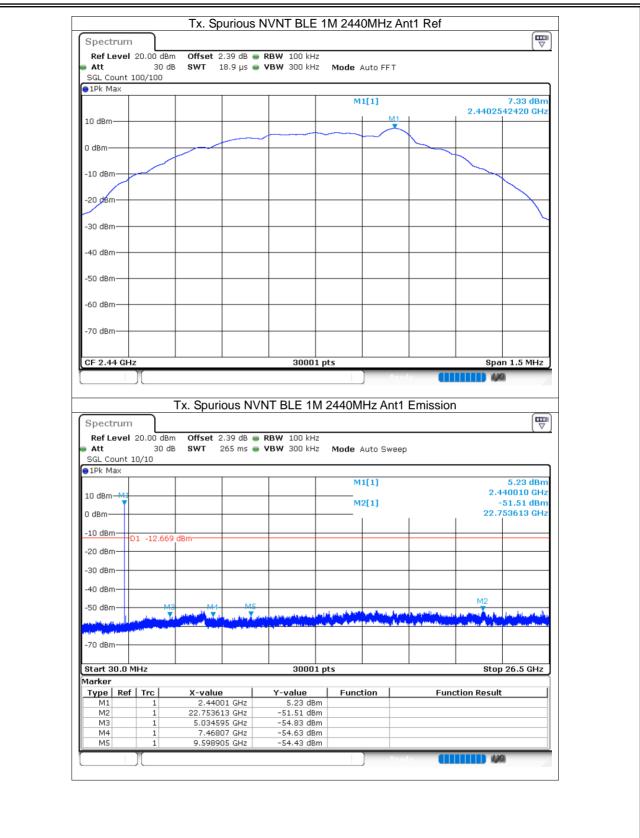




Ref L	trum .evel	20.00 di	m Offset	2.38 dB 👄 I	RBW 100 kHz					
Att	ount		db SWT	18.9 µs 👄 '	VBW 300 kHz	Mode /	Auto FFT			
SGL C		100/100								
						м	1[1]		2 402	6.91 dBn
10 dBn			_				M1	+	2.402	24580 GH
				\sim	+					
0 dBm-										
-10 dB	m—	\checkmark								
-20 dBi	m									
-30 dBi	m									
-40 dB	m-+									
-50 dB	m-+									
60 Ir										
-60 dB	m									
-70 dB	m									
		1			1001	nts			Spa	n 1.5 MHz
	trum	20.00 dt	Sm Offset	2.38 dB 👄 I	NT BLE 1M RBW 100 kHz VBW 300 kHz	1 2402M				
Spec Ref L SGL C	trum .evel	20.00 dB	Sm Offset	2.38 dB 👄 I	NT BLE 1N RBW 100 kHz	1 2402M				2
Spec Ref L Att	trum .evel	20.00 dB	Sm Offset	2.38 dB 👄 I	NT BLE 1N RBW 100 kHz	1 2402M Mode 7				4.87 dBn
Spec Ref L SGL C	trum evel	20.00 dB	Sm Offset	2.38 dB 👄 I	NT BLE 1N RBW 100 kHz	1 2402M Mode 7	Auto Sweej		;	
Spec Ref I • Att SGL C • 1Pk N	trum evel ount 1ax	20.00 dB	Sm Offset	2.38 dB 👄 I	NT BLE 1N RBW 100 kHz	1 2402M Mode 7	Auto Sweep 1[1]			4.87 dBn 2.3970 GH:
Spec Ref L SGL C 10 dBn	trum evel ount 1ax	20.00 dB	Bm Offset dB SWT	2.38 dB 👄 I	NT BLE 1N RBW 100 kHz	1 2402M Mode 7	Auto Sweep 1[1]			4.87 dBn 2.3970 GH: 51.50 dBn
Spec Ref I Att SGL C 1Pk M 10 dBm 0 dBm-	ount ax	20.00 da 30 10/10	Bm Offset dB SWT	2.38 dB 👄 I	NT BLE 1N RBW 100 kHz	1 2402M Mode 7	Auto Sweep 1[1]			4.87 dBn 2.3970 GH: 51.50 dBn
Spec Ref L Att SGL C 10 dBm 0 dBm- -10 dBm	trum evel ount 1- M1 m	20.00 da 30 10/10	Bm Offset dB SWT	2.38 dB 👄 I	NT BLE 1N RBW 100 kHz	1 2402M Mode 7	Auto Sweep 1[1]			4.87 dBn 2.3970 GH: 51.50 dBn
Spec Ref I Att SGL C 1Pk N 10 dBm -10 dBm -20 dBi	trum evel ax m m	20.00 da 30 10/10	Bm Offset dB SWT	2.38 dB	NT BLE 1N RBW 100 kHz	1 2402M Mode 7	Auto Sweep 1[1]		2:	4.87 dBn 2.3970 GH: 51.50 dBn
Spec Ref L • Att SGL C • 1Pk N 10 dBm - 10 dBm - 10 dBm - 20 dBm - 30 dBm	trum evel ount Max m m m m	20.00 df 30 10/10	37 dBm	2.38 dB • 1 265 ms • 1	NT BLE 1M	Mode /	Auto Sweep 1[1] 2[1]		2: 	4.87 dBn 2.3970 GH: 51.50 dBn 2.7677 GH:
Spec Reft SGL C 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm	trum evel ount 1ax m m m m m m	20.00 df 30 10/10	Sm Offset dB SWT	2.38 dB	NT BLE 1M	Mode /	Auto Sweep 1[1] 2[1]		2:	4.87 dBn 2.3970 GH: 51.50 dBn
Spec Ref I Att SGL C 9 1Pk N 10 dBm -10 dBm -20 dBi -20 dBi -30 dBi -40 dBi -50 dBi	trum evel ount Max m m m m m m	20.00 df 30 10/10	om Offset dB SWT	2.38 dB • 1 265 ms • 1	NT BLE 1M	Mode /	Auto Sweep 1[1] 2[1]		2: 	4.87 dBn 2.3970 GH: 51.50 dBn 2.7677 GH:
Spec Ref I Att SGL C 10 dBm 10 dBm -10 dBm -20 dBi -30 dBi -30 dBi -30 dBi -30 dBi -30 dBi -30 dBi -30 dBi -30 dBi -50 dBi	trum evel ount 1ax m m m m m m m m) [20.00 df 30 10/10	om Offset dB SWT	2.38 dB • 1 265 ms • 1		Mode /	Auto Sweep 1[1] 2[1]		2: 	4.87 dBn 2.3970 GH; 51.50 dBn 2.7677 GH;
Spec Reft SGL C 10 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -20 dBm -70 dBm		20.00 df 30 10/10	Sm Offset dB SWT	2.38 dB 265 ms	NT BLE 1M	Mode , Mode , M	Auto Sweep 1[1] 2[1]		2: 2: אורייאיראיי אורייאיראיי Stop	4.87 dBn 2.3970 GH: 51.50 dBn 2.7677 GH: 0.00000000000000000000000000000000000
Spec Ref L Att SGL C 1Pk N 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm	trum evel 1ax m m m m m 30.0 r	20.00 df 30 10/10 D1 -13.08 MHz I Trc 1 1	Sm Offset dB SwT	2.38 dB 265 ms 265 ms 2	NT BLE 1M	Mode / Mode / M m m	Auto Sweep 1[1] 2[1]		2: 	4.87 dBn 2.3970 GH: 51.50 dBn 2.7677 GH: 0.00000000000000000000000000000000000
Spec Ref L Att SGL C 10 dBm -10 dBm -10 dBm -20 dBm -20 dBm -30 dB	trum evel lax m m m m m m m m a 0.0 n	20.00 df 30 10/10 D1 -13.00	Sim Offset dB SWT 37 dBm 13 M4 14 M4 15 M4 15 M4 16 M4 17 M4 18 M4 19 M4 19 M4 19 M4 19 M4 10	2.38 dB 265 ms	NT BLE 1M	Mode / Mode / M M M M	Auto Sweep 1[1] 2[1]		2: 2: אורייאיראיי אורייאיראיי Stop	4.87 dBn 2.3970 GH: 51.50 dBn 2.7677 GH: 0.00000000000000000000000000000000000
Spec Ref I Att SGL C 1Pk N 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm	trum evel lax m m m m m m a30.0 r	20.00 df 30 10/10 D1 -13.00 MHz	Sm Offset dB SWT 37 dBm 13 M4 13 M4 14 2.3 22.76 4.97 7.0	2.38 dB 265 ms 265 ms	NT BLE 1M RBW 100 kHz yBW 300 kHz	Mode , Mode , M M M M M M M M M M M M M	Auto Sweep 1[1] 2[1]		2: 2: אורייאיראיי אורייאיראיי Stop	4.87 dBn 2.3970 GH: 51.50 dBn 2.7677 GH: 0.00000000000000000000000000000000000
Spec Reft SGL C 10 dBm -10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -30 dBm -40 dBm -70	trum evel lax m m m m m m a30.0 r	20.00 df 30 10/10 D1 -13.00 MHz I Tre 1 1 1	Sm Offset dB SWT 37 dBm 13 M4 13 M4 14 2.3 22.76 4.97 7.0	2.38 dB 265 ms 265 ms 7 7 7 7 7 7 7 7 7	NT BLE 1M RBW 100 kHz yBW 300 kHz 	Mode , Mode , M M M M M M M M M M M M M	Auto Sweep 1[1] 2[1]	2 	2: 2: אורייאיראיי אורייאיראיי Stop	4.87 dBn 2.3970 GH: 51.50 dBn 2.7677 GH: 0 26.5 GHz

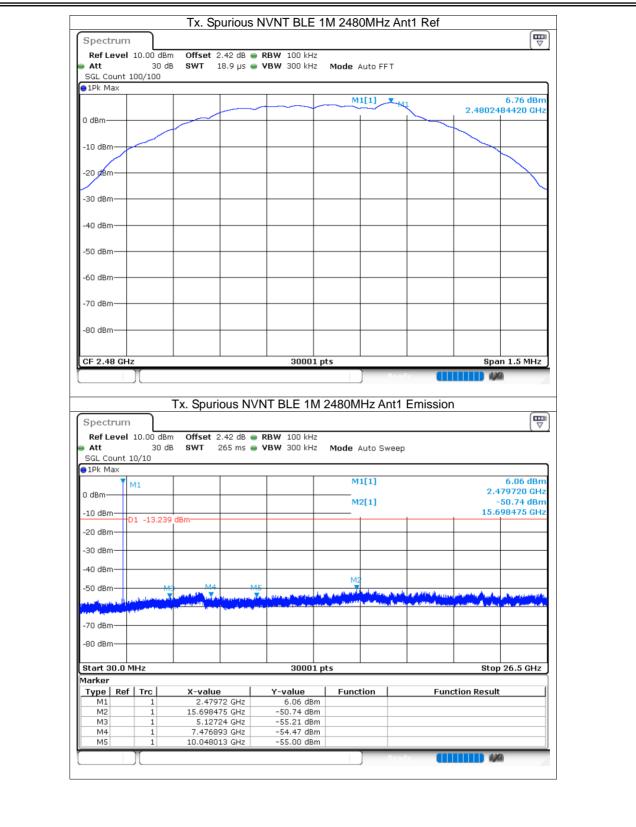




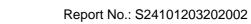












8.2**8.2 2M**

8.2.1 Duty Cycle

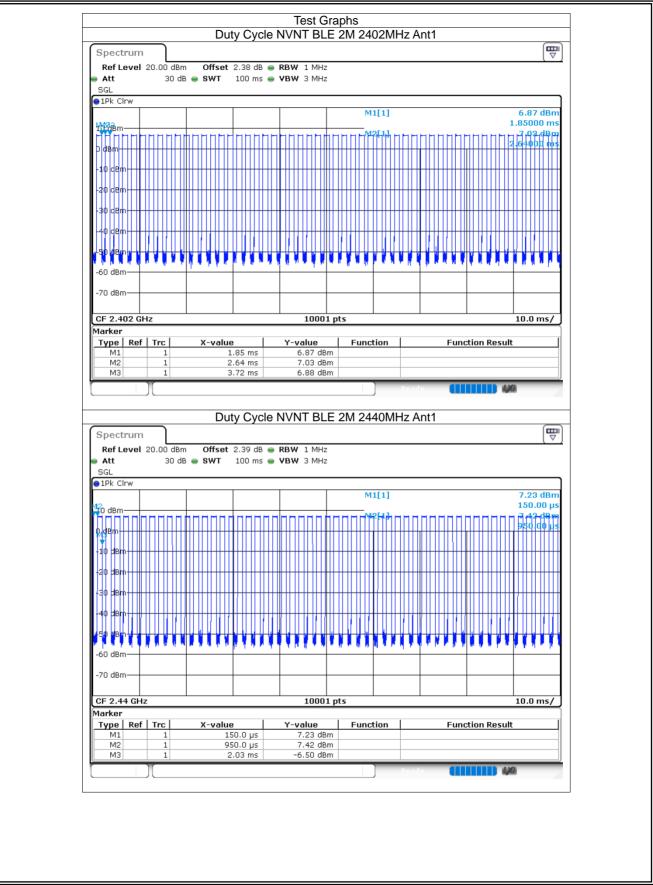
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 2M	2402	Ant1	57.76	2.38	0.93
NVNT	BLE 2M	2440	Ant1	57.92	2.37	0.93
NVNT	BLE 2M	2480	Ant1	57.81	2.38	0.93

ACCREDITED Certificate #4298.01

ilac-M

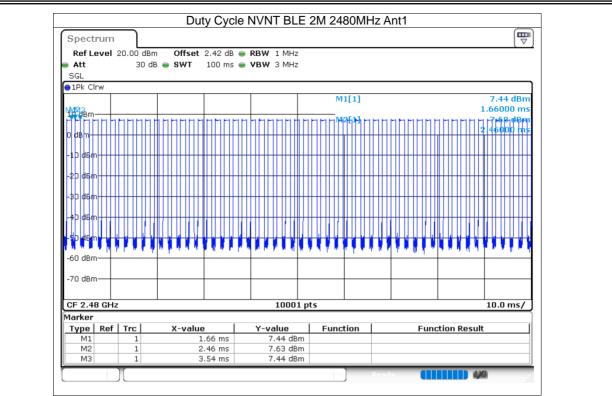














8.2.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 2M	2402	Ant1	7.07	30	Pass
NVNT	BLE 2M	2440	Ant1	7.44	30	Pass
NVNT	BLE 2M	2480	Ant1	7.66	30	Pass

TED Certificate #4298.01

ACC





	Power NV	Test Gra NT BLE 2N	ohs I 2402MHz An	t1		
Spectrum						
SGL Count 200/200			Mode Auto Sweep)		
● 1Pk Max			M1[1]		2.4019	7.07 dBm 87000 GHz
10 dBm		_				
0 dBm						
-10 dBm						
-20 dBm						
-30 dBm						
-40 dBm						
-50 dBm						
-60 dBm						
-70 dBm						
-70 dBm						
CF 2.402 GHz		10001 pt	s		Span	10.0 MHz
SGL Count 200/200 91Pk Max						
10 dBm		M1	M1[1]	+	2.4398	7.44 dBm 53000 GHz
0 dBm						
-10 dBm						
-20 dBm						
-30 dBm						
-40 dBm						
-50 dBm						
-60 dBm						
-oo ubiii						
-70 dBm						
-70 dBm		10001 pt	s			10.0 MHz
		10001 pt	S Rea	dy 🚺	Span	

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Spectrum							
Ref Level 20.00 Att 30 GGL Count 200/200	dB SWT	_	RBW 3 MHz VBW 10 MHz		uto Sweep		
1Pk Max							
				M1	[1]	2.4800	7.66 dBm 05000 GHz
.0 dBm				<u>,</u>			
I dBm							
10 dBm							
20 dBm							
30 dBm							
40 dBm							
50 dBm							
50 dBm							
70 dBm							





8.2.3-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 2M	2402	Ant1	1.113	0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.111	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.238	0.5	Pass

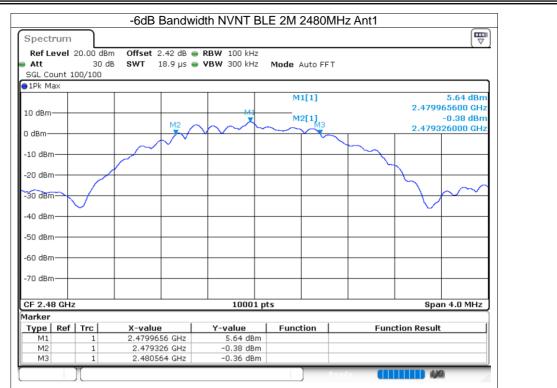














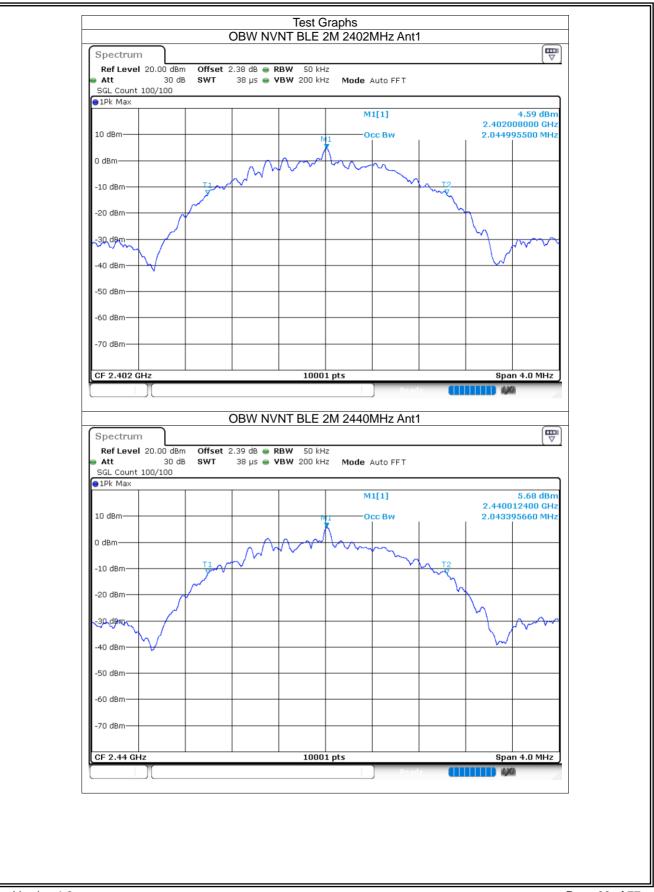


8.2.4 Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 2M	2402	Ant1	2.045
NVNT	BLE 2M	2440	Ant1	2.043
NVNT	BLE 2M	2480	Ant1	2.057

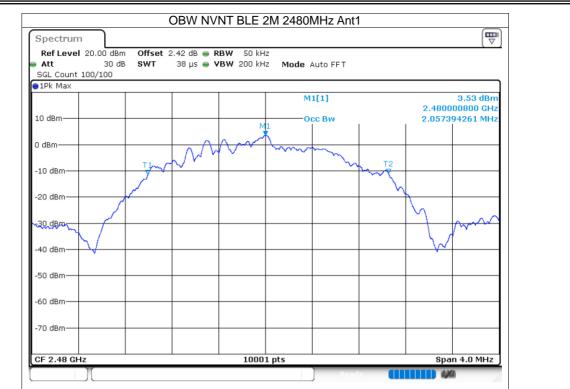














8.2.5 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Limit (dBm)	Verdict
NVNT	BLE 2M	2402	Ant1	-10.82	8	Pass
NVNT	BLE 2M	2440	Ant1	-10.62	8	Pass
NVNT	BLE 2M	2480	Ant1	-10.15	8	Pass

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10 dBm 2.40202 0 dBm M1 -10 dBm M1 -20 dBm M1 -20 dBm M1 -30 dBm M1 -30 dBm M1 -40 dBm M1 -50 dBm M1 -50 dBm M1 -60 dBm M1 -70 dBm M1 M1 M1	
Ref Level 20.00 dbm Offset 2.39 db RBW 3 kHz Mode Auto FFT Solz Count 100/100 91 db	[V]
Att 30 dB SWT 632.2 µs • VBW 10 kHz Mode Auto FFT SGL Count 100/100 • 1Pk Max 10 dBm -10 dBm -10 dBm -20 dBm -0 dBm -30 dBm -40 dBm -50 dBm -70 d	
• IPk Max M1[1] -10 0 dBm 0 0 0 -10 dBm 0 0 0 -10 dBm 0 0 0 -20 dBm 0 0 0 -30 dBm 0 0 0 -30 dBm 0 0 0 -50 dBm 0 0 0 -50 dBm 0 0 0 -70 dBm	
10 dBm M1[1] -1 0 dBm M1 2.40202 0 dBm M1 M1 -20 dBm M1 M1 -30 dBm M1 M1 -50 dBm M1 M1 -70 dBm M1 M1 -71 dBm M1 M1	
10 dBm 0 dBm 10 dBm	0.82 dBm
-10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -70 dBm -70 dBm -70 dBm -10 dBm -10 dBm -20	6210 GHz
-10 dBm -20 dBm -30 dBm -40 dBm -40 dBm -50 dBm -60 dBm -70	
10 dBm 20 dBm 40 mm	
-20 dBp	
30 dBm 40 dBm 40 dBm 40 dBm -50 dBm -60 dBm -60 dBm -60 dBm -70 dBm -70 dBm -10 dBm -70 dBm -20 dBm -70 dBm -30 dBm -70 dBm -50 dBm -70 dBm -60 dBm -70 dBm	
30 dBm 40 dBm 40 dBm 40 dBm -50 dBm -60 dBm -60 dBm -60 dBm -70 dBm -70 dBm -10 dBm -70 dBm -20 dBm -70 dBm -30 dBm -70 dBm -50 dBm -70 dBm -60 dBm -70 dBm	monther
-40 dBm	1. 1. 1. 1. 1. 1.
-50 dBm -60 dBm -60 dBm -70 dBm -70 dBm -70 dBm	
60 dBm 70 dBm 70 dBm 8pen 1.6 CF 2.402 CHz 10001 pts Spen 1.6 PSD NVNT BLE 2M 2440MHz Ant1 Spectrum Ref Level 20.00 dBm Offset 2.39 dB RBW 3 kHz att 30 dB SWT 632.2 µs VBW 10 kHz Mode Auto FFT SGL Count 100/100 0 M1[1] -1 2.43999 0 dBm 0 M1 0 0 0 -10 dBm M1 0 0 0 0 0 -20 dBm Mu M1 0 0 0 0 0 -30 dBm -0 -0 -0 -0 -0 -0 -0 -50 dBm -0	
60 dBm 70 dBm 70 dBm 8pen 1.6 CF 2.402 CHz 10001 pts Spen 1.6 PSD NVNT BLE 2M 2440MHz Ant1 Spectrum Ref Level 20.00 dBm Offset 2.39 dB RBW 3 kHz att 30 dB SWT 632.2 µs VBW 10 kHz Mode Auto FFT SGL Count 100/100 0 M1[1] -1 2.43999 0 dBm 0 M1 0 0 0 -10 dBm M1 0 0 0 0 0 -20 dBm Mu M1 0 0 0 0 0 -30 dBm -0 -0 -0 -0 -0 -0 -0 -50 dBm -0	
-70 dBm I0001 pts Span 1.6 CF 2.402 GHz 10001 pts 9 rots PSD NVNT BLE 2M 2440MHz Ant1 9 rots 9 rots Ref Level 20.00 dBm Offset 2.39 dB • RBW 3 kHz Mode Auto FFT SGL Count 100/100 9 PK Max M1[1] -1 10 dBm M1[1] 2.43999 -10 dBm -10 dBm M1 -10 dBm -10 dBm -10 dBm -30 dBm	
CF 2.402 GHz 10001 pts Span 1.6 PSD NVNT BLE 2M 2440MHz Ant1 PSD NVNT BLE 2M 2440MHz Ant1 Spectrum Ref Level 20.00 dBm Offset 2.39 dB @ RBW 3 kHz Att 30 dB SWT 632.2 µs @ VBW 10 kHz Mode Auto FFT SGL Count 100/100 @ IPk Max 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm	
CF 2.402 GHz 10001 pts Span 1.6 PSD NVNT BLE 2M 2440MHz Ant1 PSD NVNT BLE 2M 2440MHz Ant1 Spectrum Ref Level 20.00 dBm Offset 2.39 dB @ RBW 3 kHz Att 30 dB SWT 632.2 µs @ VBW 10 kHz Mode Auto FFT SGL Count 100/100 @ IPk Max M1[1] -1 10 dBm M1 2.43999 0 dBm M1 -1 -10 dBm M1 -1 -20 dBm -40 dBm -40 dBm -40 dBm	
Production PSD NVNT BLE 2M 2440MHz Ant1 Spectrum Ref Level 20.00 dBm Offset 2.39 dB RBW 3 kHz Att 30 dB SWT 632.2 µs VBW 10 kHz Mode Auto FFT SGL Count 100/100 Image: Count 100/100 M1[1] -1 2.43999 0 dBm -10 dBm M1 -1 -1 -1 -1 -1 -1 -20 dBm Max -1 -1 -1 -1 -1 -1 -30 dBm -1 -1 -1 -1 -1 -1 -1 -60 dBm -1 -1 -1 -1 -1 -1 -1	
Production PSD NVNT BLE 2M 2440MHz Ant1 Spectrum Ref Level 20.00 dBm Offset 2.39 dB RBW 3 kHz Att 30 dB SWT 632.2 µs VBW 10 kHz Mode Auto FFT SGL Count 100/100 Image: Count 100/100 M1[1] -1 2.43999 0 dBm -10 dBm M1 -1 -1 -1 -1 -1 -1 -20 dBm Max -1 -1 -1 -1 -1 -1 -30 dBm -1 -1 -1 -1 -1 -1 -1 -60 dBm -1 -1 -1 -1 -1 -1 -1	605 MUN
PSD NVNT BLE 2M 2440MHz Ant1 Spectrum Ref Level 20.00 dBm Offset 2.39 dB RBW 3 kHz Att 30 dB SWT 632.2 µs VBW 10 kHz Mode Auto FFT SGL Count 100/100 Image: Count 100/100 Image: Count 100/100 Image: Count 100/100 Image: Count 100/100 Image: Count 100/100 <td>595 MHZ</td>	595 MHZ
Spectrum Ref Level 20.00 dBm Offset 2.39 dB RBW 3 kHz Att 30 dB SWT 632.2 µs VBW 10 kHz Mode Auto FFT SGL Count 100/100 Image: Count 100/100 Image: Count 100/100 Image: Count 100/100 Image: Count 100/100 Image: Provide Autor Interview Image: Count 100/100 Image: Count 100/100 Image: Count 100/100 Image: Provide Autor Interview Image: Count 100/100 Image: Count 100/100 Image: Count 100/100 Image: Provide Autor Interview Image: Count 100/100 Image: Count 100/100 Image: Count 100/100 Image: Provide Autor Interview Image: Count 100/100 Image: Count 100/100 Image: Count 100/100 Image: Provide Autor Interview Image: Count 100/100 Image: Count 100/100 Image: Count 100/100 Image: Provide Autor Interview Image: Count 100/100 Image: Count 100/100 Image: Count 100/100 Image: Count 100/100 Image: Provide Autor Interview Image: Count 100/100 Image: Count 100/100 Image: Count 100/100 Image: Count 100/100 Image: Provide Autor Interview Image: Count 100/100 Image: Count 100/100 Image: Count 100/100<	
10 dBm 110 dBm	
10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -60 dBm -60 dBm -10 dB	0.62 dBm
0 dBm	8500 GHz
-10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm	
-10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm	
-20 dBm	
-30 dBm	
-30 dBm	munechald
-40 dBm	
-50 dBm	
-60 dBm	
-60 dBm	
-70 dBm	
-/U @BM	
CF 2.44 GHz 10001 pts Span 1.6	
CF 2.44 GHZ Span 1.6 Ready	565 MU-
	665 MHz
	665 MHz)
	665 MHz)





.00 dBm Offs	set 2.42 dB 🧉	RBW 3 kHz	:		
30 dB SW	-	• VBW 10 kHz			
/100					
			M1[1]		-10.15 dBm
			WILLI	2	.479995730 GHz
		M	L		
			<u>, ,</u>		
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an and a second s					What when a second
					A A A A A A A A A A A A A A A A A A A
				1	
	/100	/100	/100	/100 M1[1]	/100 M1[1] 2





8.2.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 2M	2402	Ant1	-66.87	-20	Pass
NVNT	BLE 2M	2480	Ant1	-52.4	-20	Pass

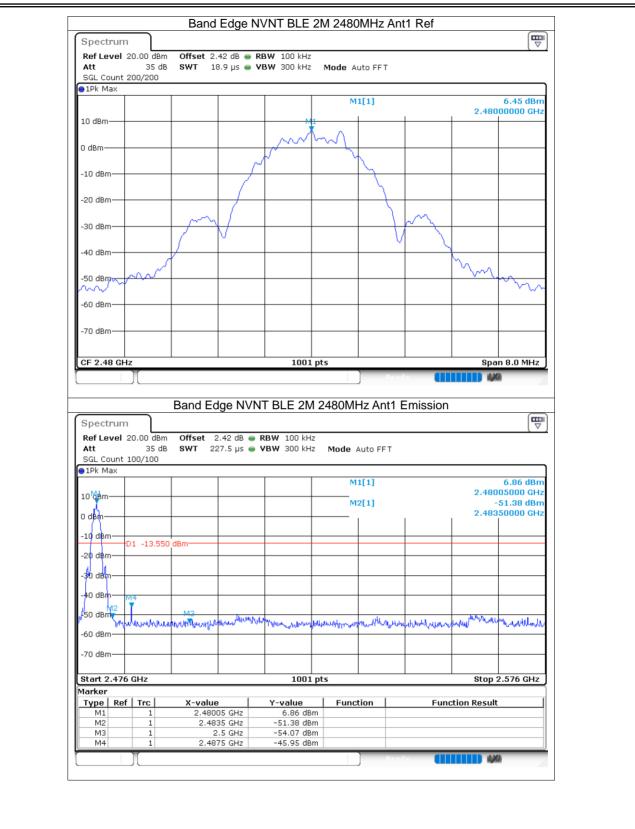




Att				RBW 100 kHz VBW 300 kHz	Mode Auto F	FT			
SGL Count 1Pk Max	200/200								
				Å	M1 A M1[1]			2,402	6.81 dBn 00800 GH:
0 dBm					\sim L				
-10 dBm			<i>بر</i>	1					
00 40 -									
-20 dBm—		_				7			
-30 dBm—			$\forall -$				\sim		
-40 dBm—		/	Ť			U			
-50 dBm	^						^	h	
m	w.							~~~	m
-60 dBm—									
-70 dBm—									
-80 dBm									
CF 2.402 (
Spectrun Ref Level Att	10.00 dBm	Offset	2.38 dB 👄	RBW 100 kHz) 2402MHz /		ission	Spa	n 8.0 MHz
Ref Level Att SGL Count	n 10.00 dBm 25 dB	Offset	2.38 dB 👄	IT BLE 2M	2402MHz A		ission		
Ref Level Att SGL Count 1Pk Max	n 10.00 dBm 25 dB	Offset	2.38 dB 👄	IT BLE 2M	2402MHz A	FFT	ission		6.37 ¥Bø
Ref Level Att SGL Count 1Pk Max	n 10.00 dBm 25 dB	Offset	2.38 dB 👄	IT BLE 2M	2402MHz A	FFT	ission	2.402	6.37 ¶8ø 05000 GH; 28.80 dBn
Ref Level Att SGL Count 1Pk Max 0 dBm -10 dBm	n 10.00 dBm 25 dB	Offset SWT 2	2.38 dB 👄	IT BLE 2M	2402MHz / Mode Auto 	FFT	ission	2.402	6.37 18. 05000/CH2
Ref Level Att SGL Count 1Pk Max 0 dBm	n 10.00 dBm 25 dB 100/100	Offset SWT 2	2.38 dB 👄	IT BLE 2M	2402MHz / Mode Auto 	FFT	ission	2.402	6.37 ¶8ø 05000 GH; 28.80 dBn
Ref Level Att SGL Count 1Pk Max 0 dBm -10 dBm -20 dBm -30 dBm	n 10.00 dBm 25 dB 100/100	Offset SWT 2	2.38 dB 👄	IT BLE 2M	2402MHz / Mode Auto 	FFT	ission	2.402	6.37 189 05000 GH: 28.80 dBH 00000 GH:
Ref Level Att SGL Count 1Pk Max 0 dBm	n 10.00 dBm 25 dB 100/100	Offset SWT 2	2.38 dB 👄	IT BLE 2M	2402MHz / Mode Auto 	FFT	ission	2.402	6.37 189 05000 GH: 28.80 dBH 00000 GH:
Ref Level Att SGL Count 1Pk Max 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm	n 10.00 dBm 25 dB 100/100	Offset SWT 2	2.38 dB • 27.5 µs •	JT BLE 2M	2402MHz / Mode Auto M1[1] M2[1]	FF T		2.402 - 2.400	6.37 189 05000 GH: 28.80 dBH 00000 GH:
Ref Level Att SGL Count ● 1Pk Max 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm	D1 -13.194	Offset SWT 2	2.38 dB • 27.5 µs •	JT BLE 2M	2402MHz / Mode Auto 	FF T		2.402 - 2.400	6.37 189 05000 GH: 28.80 dBH 00000 GH:
Ref Level Att SGL Count ● 1Pk Max 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -50 dBm -70 dBm	D1 -13.194	Offset SWT 2	2.38 dB • 27.5 µs •	JT BLE 2M	2402MHz / Mode Auto M1[1] M2[1]	FF T		2.402 - 2.400	6.37 189 05000 GH: 28.80 dBH 00000 GH:
Ref Level Att SGL Count • 1Pk Max 0 dBm -10 dBm -20 dBm -20 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm -80 dBm	D1 -13.194	Offset SWT 2	2.38 dB • 27.5 µs •	IT BLE 2M	2402MHz / Mode Auto M1[1] 	FF T		2.402 2.400 	6.37 180 05000 GH: 28.80 dBn 00000 GH: M2
Ref Level Att SGL Count ● 1Pk Max 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -50 dBm -70 dBm	D1 -13.194	Offset SWT 2	2.38 dB • 27.5 µs •	JT BLE 2M	2402MHz / Mode Auto M1[1] 	FF T		2.402 2.400 	6.37 189 05000 GH: 28.80 dBH 00000 GH:
Ref Level Att SGL Count ● 1Pk Max 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm Btart 2.30	D1 -13.194	Offset SWT 2	2.38 dB • 27.5 µs •	IT BLE 2M	2402MHz / Mode Auto M1[1] M2[1]	FFT	411772 (1.100))))))))))))))))))))))))))))))))))	2.402 2.400 	6.37 €80 05000 GH2 28.80 dBn 00000 GH2 M2 M2 2.406 GHz
Ref Level Att SGL Count ● 1Pk Max 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm -80 dBm Start 2.30 Marker Type Re	10.00 dBm 25 dB 100/100 	Offset SWT 2 dBm dBm	2.38 dB • 227.5 µs •	IT BLE 2M	2402MHz / Mode Auto M1[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1]	FFT	411772 (1.100))))))))))))))))))))))))))))))))))	2.402 2.400	6.37 €80 05000 GH2 28.80 dBn 00000 GH2 M2 M2 2.406 GHz
Ref Level Att SGL Count 9 1Pk Max 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -50 dBm -70 dBm -80 dBm Start 2.30 Marker Type Re M1 M2	10.00 dBm 25 dB 100/100 01 -13.194 01 -13.194 0	Offset SWT 2 dBm dBm x-valu 2.402	2.38 dB • 27.5 µs •	IT BLE 2M	2402MHz / Mode Auto M1[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1]	FFT	411772 (1.100))))))))))))))))))))))))))))))))))	2.402 2.400	6.37 €80 05000 GH2 28.80 dBn 00000 GH2 M2 M2 2.406 GHz









8.2.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 2M	2402	Ant1	-57.13	-20	Pass
NVNT	BLE 2M	2440	Ant1	-57.81	-20	Pass
NVNT	BLE 2M	2480	Ant1	-58.52	-20	Pass

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Ref Le	evel	10.00 dE 30			RBW 100 kHz VBW 300 kHz	Mode Auto) FFT			
SGL Co						niouo nate				
⊖1Pk Ma	ax T				*	M1 M1[1	1			6.95 dBm
0 dBm—				\sim			$\overline{\mathbf{X}}$		2.402	00300 GHz
o abiii			\sim	Ť						
-10 dBm	+								<u> </u>	
-20 dBm	4									\searrow
										\sim
-30 dBm	+									\rightarrow
-40 dBm	\rightarrow									
-50 dBm	\top									
-60 dBm	+									
-70 dBm										
yo ubili										
-80 dBm	+									
05 0 40										
Att 🗧	°um evel	10.00 dE	Bm Offset	2.38 dB 👄	1001 p NT BLE 2M RBW 100 kHz VBW 300 kHz	 2402MHz				n 3.0 MHz
Spectr Ref Le Att SGL Co	rum evel	10.00 dE	Bm Offset	2.38 dB 👄	NT BLE 2M RBW 100 kHz	 2402MHz				
Spectr Ref Le	um evel)(Bm Offset	2.38 dB 👄	NT BLE 2M RBW 100 kHz	 2402MHz	o Sweep			(₩ ▼ 2.95 dBm
Spectr Ref Le Att SGL Co	um evel	10.00 dE	Bm Offset	2.38 dB 👄	NT BLE 2M RBW 100 kHz	2402MHz Mode Auto	o Sweep			2.95 dBm 2.3970 GHz 50.19 dBm
Spectr Ref Le Att SGL Cor 91Pk Ma	um evel unt 1 ax)(Bm Offset dB SWT	2.38 dB 👄	NT BLE 2M RBW 100 kHz	2402MHz Mode Auto M1[1	o Sweep			2.95 dBm 2.3970 GHz
Spectr Ref Le Att SGL Coi 1Pk Ma 0 dBm- -10 dBm	rum evel unt 1 ax	10.00 dE 30 .0/10	Bm Offset dB SWT	2.38 dB 👄	NT BLE 2M RBW 100 kHz	2402MHz Mode Auto M1[1	o Sweep			2.95 dBm 2.3970 GHz 50.19 dBm
Spectr Ref Le Att SGL Col 1Pk Ma 0 dBm- -10 dBm -20 dBm	unt 1	10.00 dE 30 .0/10	Bm Offset dB SWT	2.38 dB 👄	NT BLE 2M RBW 100 kHz	2402MHz Mode Auto M1[1	o Sweep			2.95 dBm 2.3970 GHz 50.19 dBm
Spectr Ref Le Att SGL Coi 1Pk Ma 0 dBm- -10 dBm	unt 1	10.00 dE 30 .0/10	Bm Offset dB SWT	2.38 dB • 265 ms •	NT BLE 2M RBW 100 kHz VBW 300 kHz	2402MHz Mode Auto M1[1 	2 Sweep]]]			2.95 dBm 2.3970 GHz 50.19 dBm 5.6796 GHz
Spectr Ref Le Att SGL Coi 1Pk Ma -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm	evel ax	10.00 dE 30 .0/10 41	Bin Offset dB SWT	2.38 dB • 265 ms •	NT BLE 2M RBW 100 kHz	2402MHz Mode Auto M1[1 	2 Sweep]]]			2.95 dBm 2.3970 GHz 50.19 dBm 5.6796 GHz
Spectr Ref Le Att SGL Con IPk Ma IPk Ma O dBm -10 dBm -20 dBm -30 dBm -30 dBm -30 dBm -50 dBm		10.00 dE 30 .0/10 41	Bm Offset dB SWT	2.38 dB • 265 ms •	NT BLE 2M RBW 100 kHz VBW 300 kHz	2402MHz Mode Auto M1[1 	2 Sweep]]]			2.95 dBm 2.3970 GHz 50.19 dBm 5.6796 GHz
Spectr Ref Le Att SGL Colo 1Pk Ma -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -70 dBm	vel unt 1 ax	10.00 dE 30 .0/10 41	Bin Offset dB SWT	2.38 dB • 265 ms •	NT BLE 2M RBW 100 kHz VBW 300 kHz	2402MHz Mode Auto M1[1 	2 Sweep]]]			2.95 dBm 2.3970 GHz 50.19 dBm 5.6796 GHz
Spectr Ref Le Att SGL Con IPk Ma IPk Ma O dBm -10 dBm -20 dBm -30 dBm -30 dBm -30 dBm -50 dBm	vel unt 1 ax	10.00 dE 30 .0/10 41	Bin Offset dB SWT	2.38 dB • 265 ms •	NT BLE 2M RBW 100 kHz VBW 300 kHz	2402MHz Mode Auto M1[1 	2 Sweep]]]			2.95 dBm 2.3970 GHz 50.19 dBm 5.6796 GHz
Spectr Ref Le Att SGL Cool PIPk Ma 0 dBm -10 dBm -20 dBm -30 dBm -		10.00 dE 30 0/10 11 -13.05	Bin Offset dB SWT	2.38 dB • 265 ms •	NT BLE 2M RBW 100 kHz VBW 300 kHz	2402MHz Mode Auto M1[1 	2 Sweep]]]		2 16	2.95 dBm 2.3970 GHz 50.19 dBm 5.6796 GHz
Spectr Ref Le Att SGL Co 1Pk Ma -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm -70 dBm -80 dBm Start 30 Marker Type		10.00 dE 30 .0/10 11 -13.05	So dBm	2.38 dB 265 ms	NT BLE 2M	2402MHz Mode Auto M1[1 M2[1 M2[1 M2[1 M2[1 M2[1 M2[1 M2] M M M M M M M M M M M M M	2 Sweep]]]] [2 	Autor and a second	2 16	2.95 dBm 2.3970 GHz 50.19 dBm 5.6796 GHz
Spectr Ref Le Att SGL Cool 1Pk Ma 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -30 dBm -50 dBm -50 dBm -70 dBm -70 dBm -70 dBm -80 dBm Start 3 (Marker Type M1 M2		10.00 df 30 0/10 11 -13.05 	Sm Offset dB SWT 50 dBm 50 dBm 13 M4 14 M4 15 M4 16 7 16.67 16.67	2.38 dB 265 ms 265 ms 26	NT BLE 2M RBW 100 kHz VBW 300 kHz	2402MHz Mode Auto M1[1 	2 Sweep]]]] [2 	Autor and a second	2 	2.95 dBm 2.3970 GHz 50.19 dBm 5.6796 GHz
Spectr Ref Le Att SGL Colo 1Pk Ma 0 dBm -10 dBm -20 dBm -20 dBm -40 dBm -50 dBm -70 dBm		10.00 dE 30 .0/10 41 41 41 41 41 41 41 41 41 41 41 41 41	Sm Offset dB SWT 50 dBm	2.38 dB 265 ms	NT BLE 2M	2402MHz Mode Auto M1[1 M2[1 M2[1 M2[1 M2[1 M2 M M M M M M M M M M M M M	2 Sweep]]]] [2 	Autor and a second	2 	2.95 dBm 2.3970 GHz 50.19 dBm 5.6796 GHz
Spectr Ref Le Att SGL Coi 1Pk Ma -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -50 dBm -50 dBm -80 dBm Start 30 Marker Type M1 M2 M3		10.00 df 30 0/10 11 -13.05 	Bin Offset dB SWT 50 dBm 50	2.38 dB 265 ms	NT BLE 2M RBW 100 kHz VBW 300 kHz	2402MHz Mode Auto M1[1 M2[1 M2[1 M2[1 M2[1 M2[1 M2[1 M2] M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2	2 Sweep]]]] [2 	مریار کې د د او د د د د د د د د د د د د د د د د	2 	2.95 dBm 2.3970 GHz 50.19 dBm 5.6796 GHz





Att SGL Count 300	30 dB SWT		RBW 100 kHz VBW 300 kHz	Mode Auto	FFT		
●1Pk Max			*	M1 M1[1]			7.29 dBm
0 dBm		\sim	\sim		~	2.44	000600 GHz
10 d0m	\sim					\sim	
-10 dBm							
-20 dBm							\sim
-30 dBm							\rightarrow
-40 dBm							\
-50 dBm							
-60 dBm							
-70 dBm		_					
-80 dBm							
CF 2.44 GHz			1001	ots		Spa	an 3.0 MHz
Spectrum Ref Level 10			RBW 100 kHz				
Ref Level 10 Att SGL Count 10/	30 dB SWT		RBW 100 kHz VBW 300 kHz	Mode Auto	Sweep		
Ref Level 10 Att SGL Count 10/ 1Pk Max	30 dB SWT			Mode Auto M1[1]	-		3.33 dBm
Ref Level 10 Att SGL Count 10/ 1Pk Max 0 dBm	30 dB SWT						3.33 dBm 2.4500 GHz -50.52 dBm
Ref Level 10 Att SGL Count 10/ IPk Max 0 dBm -10 dBm 01	30 dB SWT			M1[1]			3.33 dBm 2.4500 GHz
Ref Level 10 Att SGL Count 10/ 1Pk Max 0 dBm M1 -10 dBm	30 dB SWT 10			M1[1]			3.33 dBm 2.4500 GHz -50.52 dBm
Mathematical SGL Count 10/ IPk Max 0 dBm M1 -10 dBm D1 -20 dBm D1	30 dB SWT 10			M1[1] M2[1]			3.33 dBm 2.4500 GHz -50.52 dBm
Mathematical Section M1 SGL Count 10/ 1Pk Max 0 dBm M1 -10 dBm D1 -20 dBm -30 dBm -40 dBm -40 dBm	30 dB SWT 10 -12.709 dBm	265 ms •	VBW 300 kHz	M1[1] M2[1]			3.33 dBm 2.4500 GHz -50.52 dBm 6.2561 GHz
Mathematical Section M1 SGL Count 10/ 1Pk Max 0 dBm M1 -10 dBm D1 -20 dBm -30 dBm	30 dB SWT 10 -12.709 dBm		VBW 300 kHz	M1[1] M2[1]			3.33 dBm 2.4500 GHz -50.52 dBm 6.2561 GHz
Mathematical Section M1 SGL Count 10/ 1Pk Max 0 dBm M1 -10 dBm D1 -20 dBm -30 dBm -30 dBm -50 dBm -70 dBm -70 dBm	30 dB SWT 10 -12.709 dBm	265 ms •	VBW 300 kHz	M1[1] M2[1]			3.33 dBm 2.4500 GHz -50.52 dBm 6.2561 GHz
Mathematical Section M1 SGL Count 10/ 1Pk Max 0 dBm M1 -10 dBm D1 -20 dBm -30 dBm -30 dBm -30 dBm -40 dBm -50 dBm	30 dB SWT 10 -12.709 dBm	265 ms •	VBW 300 kHz	M1[1] M2[1]			3.33 dBm 2.4500 GHz -50.52 dBm 6.2561 GHz
Ref Level 10 Att SGL Count 10/ IPk Max 0 dBm -10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -40 dBm -50 dBm -70 dBm -80 dBm Start 30.0 MH:	30 dB SWT 10 -12.709 dBm -12.709 dBm -12.709 dBm	265 ms •	VBW 300 kHz	M1[1] M2[1] M2[1] M2 M2		Nhyrenna kraf had yn yw Ar	3.33 dBm 2.4500 GHz -50.52 dBm 6.2561 GHz
Ref Level 10 Att SGL Count 10/ IPk Max 0 dBm -10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -30 dBm -30 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm Start 30.0 MH: Marker Type Ref	30 dB SWT 10 -12.709 dBm -12.709 dBm -12.700 dBm -12	265 ms	VBW 300 kHz	M1[1] M2[1] M2 M2 M2 M2 M2 M2 M2 M2 M2 M2		Nhyrenna kraf had yn yw Ar	3.33 dBm 2.4500 GHz -50.52 dBm 6.2561 GHz
Ref Level 10 Att SGL Count 10/ IPk Max 0 dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -30 dBm -30 dBm -30 dBm -30 dBm -50 dBm -70 dBm -80 dBm Start 30.0 MH; Marker Type M1 M2	30 dB SWT 10 -12.709 dBm -12.709 dBm -12.700 dBm -12	265 ms	VBW 300 kHz	M1[1] M2[1] M2 M2 M2 M2 M2 M2 M2 M2 M2 M2		1 	3.33 dBm 2.4500 GHz -50.52 dBm 6.2561 GHz
Ref Level 10 Att SGL Count 10/ IPk Max 0 dBm M1 -10 dBm D1 -20 dBm	30 dB SWT 10 -12.709 dBm -12.709 dBm -12.700 dBm -12	265 ms	VBW 300 kHz	M1[1] M2[1] M2 M2 M2 M2 M2 M2 M2 M2 M2 M2		1 	3.33 dBm 2.4500 GHz -50.52 dBm 6.2561 GHz





