



## RADIO TEST REPORT FCC ID: 2BA4J-ZHD312R

Product: Digital DAY/NIGHT SCOPE Trade Mark: DNT-ZULUS、DNT Model No.: ZULUS HD 3-12X LRF CP238, ZHD16, ZHD312R, ZHD312RCN, COMPACT 3 - 12X, COMPACT HD 3 - 12X LRF, COMPACT 1 - 6X Report No.: S24060401515001 Issue Date: Jul 27, 2024

## Prepared for

Pangao Photoelectric

Building 06, Unit 501, No. 16 Wenchang Road, Hunan Xiangxiang Economic Development Zone. Hunan Province, China

## Prepared by

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#### 1 TEST RESULT CERTIFICATION

Applicant's name	Pangao Photoelectric	
Address	• •	
Manufacturer's Name	Pangao Photoelectric	
Address:	Building 06, Unit 501, No. 16 Wenchang Road, Hunan Xiangxiang Economic Development Zone. Hunan Province, China	
Factory's name	Pangao Photoelectric	
Address:	Building 06, Unit 501, No. 16 Wenchang Road, Hunan Xiangxiang Economic Development Zone. Hunan Province, China	
Product description		
Product name:	Digital DAY/NIGHT SCOPE	
Model and/or type reference:	ZULUS HD 3-12X LRF	
Family Model:	CP238, ZHD16, ZHD312R, ZHD312RCN, COMPACT 3 - 12X, COMPACT HD 3 - 12X LRF, COMPACT 1 - 6X	
Test Sample Number	S240604015015	
Date of Test	Jun 05, 2024 ~ Jul 27, 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.

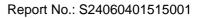
Aawn Cheng Gavan Zhang Reviewed Prepared Approved By By By Gavan Zhang Aaron Cheng Alex Li (Supervisor) (Project Engineer) (Manager)

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 PASS				
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		

ACCRED Certificate #4298.01

#### Remark:

 "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 Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. 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 bandwidth	±3.7dB





## 4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification				
Equipment	Digital DAY/NIGHT SCOPE			
Trade Mark	DNT-ZULUS、DNT			
FCC ID	2BA4J-ZHD312R			
Model No.	ZULUS HD 3-12X LRF			
Family Model	CP238, ZHD16, ZHD312R, ZHD312RCN, COMPACT 3 - 12X, COMPACT HD 3 - 12X LRF, COMPACT 1 - 6X			
Model Difference	All models are the same circuit and RF module, except the model names, the digital scope for foreign shotguns with different brands of different countries.			
Operating Frequency	2402MHz~2480MHz			
Modulation	GFSK			
Number of Channels	40 Channels			
Antenna Type	FPC Antenna			
Antenna Gain	-2 dBi			
Power supply	DC 5V from Charge port or DC 3.6V from battery			
Adapter	N/A			
Battery	N/A			
HW Version	N/A			
SW Version	N/A			
Firmware version	N/A			

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.

Note 2: The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.





#### **Revision History**

Revision History				
Report No.	Version	Description	Issued Date	
S24060401515001	Rev.01	Initial issue of report	Jul 27, 2024	

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## 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 (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(duty cycle =100% during the test)

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

3. For radiated test cases, the worst mode data rate 1Mbps 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.

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





6 SETUP OF EQUIPMENT UNDER TEST	
6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM	
For AC Conducted Emission Mode	
E-1 EUT C-1 AE-1 Adapter	AC PLUG
For Radiated Test Cases	
EUT	
For Conducted Test Cases	
Measurement Instrument EUT	
Note: The temporary antenna connector is soldered on the PC tests and this temporary antenna connector is listed in the equip	B board in order to perform conducted ment list.





#### 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
E-1	Digital DAY/NIGHT SCOPE	ZULUS HD 3-12X LRF	N/A	EUT
AE-1	Adapter	N/A	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	Power Cable	NO	NO	1.0m
C-2	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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#### 6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test equipment

		lest equipment					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibrati on period
1	Spectrum Analyzer	Agilent	E4440A	MY41000130	2024.03.12	2025.03.11	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2024.04.26	2025.04.25	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2024.04.26	2025.04.25	1 year
4	Test Receiver	R&S	ESPI7	101318	2024.03.12	2025.03.11	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2024.03.11	2025.03.10	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2023.05.06	2026.05.05	3 year
7	Horn Antenna	SCHWARZBE CK	BBHA 9120 D	2816	2023.01.12	2026.01.11	3 year
8	Broadband Horn Antenna	SCHWARZBE CK	BBHA 9170	803	2022.11.07	2025.11.06	3 year
9	Amplifier	EMC	EMC051835 SE	980246	2024.01.23	2025.01.22	1 year
10	Active Loop Antenna	SCHWARZBE CK	FMZB 1519 B	055	2023.11.03	2026.11.02	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	2022.06.17	2025.06.16	3 year
13	Test Cable (30MHz-1GHz )	N/A	R-02	N/A	2022.06.17	2025.06.16	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	2023.03.26	2026.03.25	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 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	2024.03.12	2025.03.11	1 year
2	LISN	R&S	ENV216	101313	2024.03.12	2025.03.11	1 year
3	LISN	SCHWARZBE CK	NNLK 8129	8129245	2024.03.12	2025.03.11	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2023.05.06	2026.05.05	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.



### 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

	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

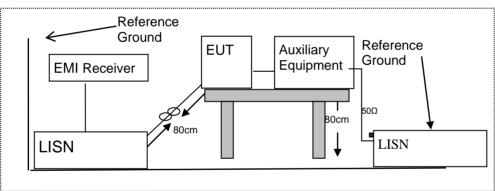
2. The lower limit shall apply at the transition frequencies

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

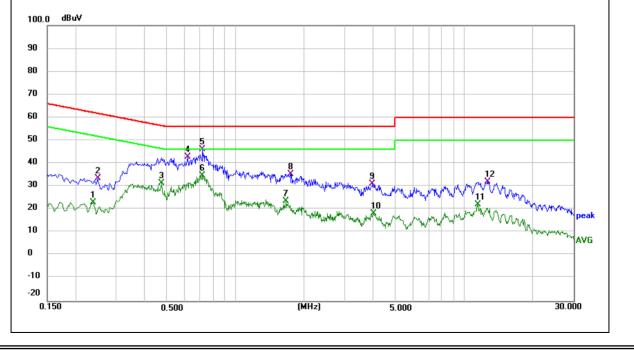
	Digital DAY/NIGHT SCOPE	Model Name :	ZULUS HD 3-12X LRF
Temperature:	<b>22</b> ℃	Relative Humidity:	57%
Pressure:	1010hPa	Phase :	L
	DC 5V from adapter AC120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domork
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	- Remark
0.2380	13.00	10.12	23.12	52.17	-29.05	AVG
0.2500	23.39	10.14	33.53	61.76	-28.23	QP
0.4740	20.94	10.59	31.53	46.44	-14.91	AVG
0.6180	32.01	10.89	42.90	56.00	-13.10	QP
0.7180	35.02	11.09	46.11	56.00	-9.89	QP
0.7180	23.52	11.09	34.61	46.00	-11.39	AVG
1.6700	10.60	13.00	23.60	46.00	-22.40	AVG
1.7420	22.27	13.14	35.41	56.00	-20.59	QP
3.9700	21.42	9.67	31.09	56.00	-24.91	QP
4.0260	8.48	9.67	18.15	46.00	-27.85	AVG
11.4580	12.33	9.69	22.02	50.00	-27.98	AVG
12.6380	22.30	9.70	32.00	60.00	-28.00	QP

Remark:

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

2. Factor = Insertion Loss + Cable Loss.



Version.1.3





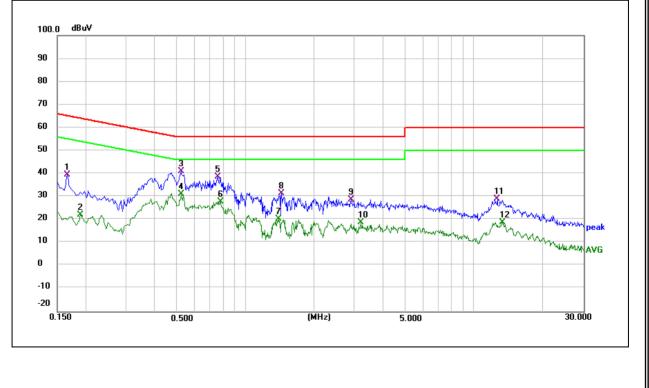
EUT:	Digital DAY/NIGHT SCOPE	Model Name :	ZULUS HD 3-12X LRF
Temperature:	<b>22</b> ℃	Relative Humidity:	57%
Pressure:	1010hPa	Phase :	Ν
Test Voltage :	DC 5V from adapter AC120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Demerik
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1660	29.68	9.97	39.65	65.16	-25.51	QP
0.1900	12.08	10.01	22.09	54.04	-31.95	AVG
0.5220	30.32	10.69	41.01	56.00	-14.99	QP
0.5220	20.46	10.69	31.15	46.00	-14.85	AVG
0.7580	27.48	11.18	38.66	56.00	-17.34	QP
0.7780	16.66	11.22	27.88	46.00	-18.12	AVG
1.3980	7.96	12.46	20.42	46.00	-25.58	AVG
1.4340	18.91	12.52	31.43	56.00	-24.57	QP
2.8860	19.06	9.67	28.73	56.00	-27.27	QP
3.1900	9.04	9.67	18.71	46.00	-27.29	AVG
12.6059	19.40	9.70	29.10	60.00	-30.90	QP
13.2900	9.27	9.70	18.97	50.00	-31.03	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)

	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.



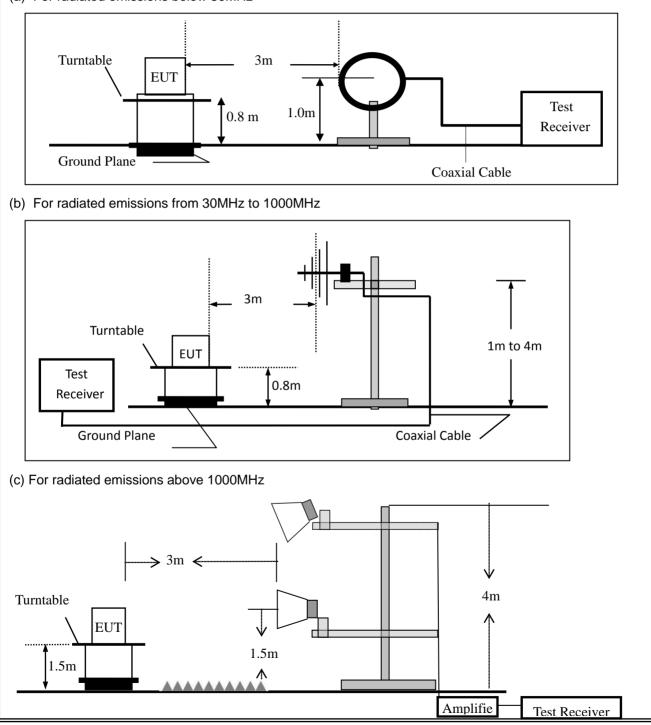


#### 7.2.3 Measuring Instruments

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

#### 7.2.4 Test Configuration

#### (a) For radiated emissions below 30MHz



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### 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:

eee ale lene milg epeed all allayzer eetange				
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				

Certificate #4298.01

30 to 1000	QP	120 kHz	300 kHz	
Abaua 4000	Peak	1 MHz	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 30MI	Hz)

EUT:	Digital DAY/NIGHT SCOPE	Model No.:	ZULUS HD 3-12X LRF
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	Mode1/Mode2/Mode3/ Mode4	Test By:	Gavan Zhang

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.

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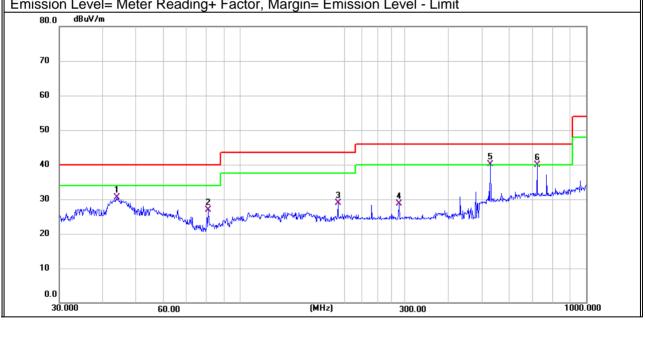
Spurious Emission below 1GHz (30MHz to 1GHz) All the modulation modes have been tested, and the worst result was report as below:

EUT:	Digital DAY/NIGHT SCOPE	Model Name :	ZULUS HD 3-12X LRF
Temperature:	<b>25</b> ℃	Relative Humidity:	55%
Pressure:	1010hPa	Test Mode:	Mode 4
Test Voltage :	DC 3.6V from battery		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	44.1200	10.56	19.92	30.48	40.00	-9.52	QP
V	80.9274	11.97	14.95	26.92	40.00	-13.08	QP
V	191.7450	10.99	17.96	28.95	43.50	-14.55	QP
V	287.9904	8.75	20.01	28.76	46.00	-17.24	QP
V	528.2458	15.98	24.18	40.16	46.00	-5.84	QP
V	721.7258	12.55	27.27	39.82	46.00	-6.18	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	35.6240	8.78	18.56	27.34	40.00	-12.66	QP
Н	85.5973	6.67	15.96	22.63	40.00	-17.37	QP
Н	191.7450	6.20	17.96	24.16	43.50	-19.34	QP
Н	432.5455	10.91	22.76	33.67	46.00	-12.33	QP
Н	528.2458	14.21	24.18	38.39	46.00	-7.61	QP
Н	721.7258	12.23	27.27	39.50	46.00	-6.50	QP
70							
60 -							
50 40						6	
30	1				A Horach	when when when the	And Mark
20	hall the second have a second have been been been been been been been be	vinne Herministerie and her	the second second	manufashing have the	were were and the second of th		
10							
0.0							
30.	000 6	0.00	(	MHz) ;	300.00		1000.000





EUT: Digital DAY/NIGHT SCOPE				Mo	Model No.:			ZULUS HD 3-12X LRF		
emperature:	20	°C	°C Relative Humidity: 48%							
est Mode:	Мо	de2/Moo	de3/Mode4	1 Te	st By:		Gavan	Zhan	g	
Frequency	Read Level	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limit	s Ma	argin	Remark	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV	/m) (	dB)		
			Low Cha	annel (24	02 MHz)(GFS	K)Abo	ve 1G			
4804	70.72	5.21	35.59	44.30	67.22	74.0	0 -6	6.78	Pk	Vertical
4804	50.68	5.21	35.59	44.30	47.18	54.0	0 -6	6.82	AV	Vertical
7206	68.31	6.48	36.27	44.60	66.46	74.0	0 -7	7.54	Pk	Vertical
7206	47.13	6.48	36.27	44.60	45.28	54.0	-8	3.72	AV	Vertical
4804	69.85	5.21	35.55	44.30	66.31	74.0	0 -7	7.69	Pk	Horizontal
4804	47.80	5.21	35.55	44.30	44.26	54.0	0 -9	9.74	AV	Horizontal
7206	69.83	6.48	36.27	44.52	68.06	74.0	0 -5	5.94	Pk	Horizontal
7206	49.29	6.48	36.27	44.52	47.52	54.0	0 -6	5.48	AV	Horizontal
			Mid Cha	annel (244	40 MHz)(GFS	K)Abov	ve 1G			
4880	68.48	5.21	35.66	44.20	65.15	74.0	-8	8.85	Pk	Vertical
4880	46.65	5.21	35.66	44.20	43.32	54.0	0 -1	0.68	AV	Vertical
7320	70.04	7.10	36.50	44.43	69.21	74.0	0 -4	4.79	Pk	Vertical
7320	45.37	7.10	36.50	44.43	44.54	54.0	0 -9	9.46	AV	Vertical
4880	70.87	5.21	35.66	44.20	67.54	74.0	0 -6	6.46	Pk	Horizontal
4880	48.70	5.21	35.66	44.20	45.37	54.0	-8	3.63	AV	Horizontal
7320	70.11	7.10	36.50	44.43	69.28	74.0	0 -4	4.72	Pk	Horizontal
7320	50.35	7.10	36.50	44.43	49.52	54.0	0 -4	4.48	AV	Horizontal
			High Cha	annel (24	80 MHz)(GFS	K) Abc	ove 1G			
4960	70.96	5.21	35.52	44.21	67.48	74.0	0 -6	6.52	Pk	Vertical
4960	45.88	5.21	35.52	44.21	42.40	54.0	0 -1	1.60	AV	Vertical
7440	69.64	7.10	36.53	44.60	68.67	74.0	0 -5	5.33	Pk	Vertical
7440	50.24	7.10	36.53	44.60	49.27	54.0	0 -4	4.73	AV	Vertical
4960	70.56	5.21	35.52	44.21	67.08	74.0	0 -6	6.92	Pk	Horizontal
4960	46.58	5.21	35.52	44.21	43.10	54.0	0 -1	0.90	AV	Horizontal
7440	69.27	7.10	36.53	44.60	68.30	74.0	0 -5	5.70	Pk	Horizontal
7440	47.24	7.10	36.53	44.60	46.27	54.0	0 -7	7.73	AV	Horizontal

#### 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 (1Mbps for GFSK modulation) test result is the worst





EUT:	Digital D	DAY/NIG	GHT SCOF	PE M	odel No.:		ZULUS HD 3-12X LRF			
Temperature:	emperature: 20 °C				Relative Humidity: 48%			%		
Test Mode: Mode2/ Mode4				Т	Test By: Gavan Zhang			J		
Frequency	Meter Reading	Cable Loss	Antenna Factor	Pream Facto		Lim	nits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)		(dB)	Туре	
					IMbps(GFSK)					
2310.00	69.83	2.97	27.80	43.8	0 56.80	7	4	-17.20	Pk	Horizontal
2310.00	50.66	2.97	27.80	43.8	0 37.63	5	4	-16.37	AV	Horizontal
2310.00	69.85	2.97	27.80	43.8	0 56.82	7	4	-17.18	Pk	Vertical
2310.00	46.79	2.97	27.80	43.8	0 33.76	5	4	-20.24	AV	Vertical
2390.00	68.45	3.14	27.21	43.8	0 55.00	7	4	-19.00	Pk	Vertical
2390.00	46.57	3.14	27.21	43.8	0 33.12	5	4	-20.88	AV	Vertical
2390.00	69.67	3.14	27.21	43.8	0 56.22	7	4	-17.78	Pk	Horizontal
2390.00	47.70	3.14	27.21	43.8	0 34.25	5	4	-19.75	AV	Horizontal
2483.50	69.19	3.58	27.70	44.0	0 56.47	7	4	-17.53	Pk	Vertical
2483.50	46.50	3.58	27.70	44.0	0 33.78	5	4	-20.22	AV	Vertical
2483.50	68.52	3.58	27.70	44.0	0 55.80	7	4	-18.20	Pk	Horizontal
2483.50	47.70	3.58	27.70	44.0	0 34.98	5	4	-19.02	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 (1Mbps for GFSK modulation) test result is the worst





Spurious Emission in Restricted Band 3260MHz EUT: Digital DAY/NIGHT SCOPE												
		<u> </u>										
				Relative Humidity: 48%								
Test Mode: Mode2/ Mode4			Test	By:		Gava	n Zhang					
								-				
Frequency			amp ctor	Emission Level	Limits		Margin	Detector	Comment			
(MHz)	(dBµ	V)	(dB)	dB/m	(c	lB)	(dBµV/m) (d		µV/m)	(dB)	Туре	
3260	70.8	34	4.04	29.57	44	.70	59.75	-	74	-14.25	Pk	Vertical
3260	50.5	57	4.04	29.57	44	.70	39.48	ł	54	-14.52	AV	Vertical
3260	68.0	)4	4.04	29.57	44	.70	56.95	-	74	-17.05	Pk	Horizontal
3260	49.7	72	4.04	29.57	44	.70	38.63	ł	54	-15.37	AV	Horizontal
3332	70.6	35	4.26	29.87	44	.40	60.38		74	-13.62	Pk	Vertical
3332	49.8	39	4.26	29.87	44	.40	39.62	:	54	-14.38	AV	Vertical
3332	68.2	24	4.26	29.87	44	.40	57.97	-	74	-16.03	Pk	Horizontal
3332	47.6	37	4.26	29.87	44	.40	37.40	ł	54	-16.60	AV	Horizontal
17797	48.5	55	10.99	43.95	43	.50	59.99	-	74	-14.01	Pk	Vertical
17797	37.9	<del>)</del> 5	10.99	43.95	43	.50	49.39	:	54	-4.61	AV	Vertical
17788	55.8	37	11.81	43.69	44	.60	66.77	-	74	-7.23	Pk	Horizontal
17788	34.1	15	11.81	43.69	44	.60	45.05	ł	54	-8.95	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 (1Mbps 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:	Digital DAY/NIGHT SCOPE	Model No.:	ZULUS HD 3-12X LRF
Temperature:	20 °C	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<sub>total</sub> and T<sub>on</sub> Calculate Duty Cycle = T<sub>on</sub> / T<sub>total</sub>





#### 7.4.6 Test Results

EUT:	Digital DAY/NIGHT SCOPE	Model No.:	ZULUS HD 3-12X LRF
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	N/A	Test By:	N/A

Note: Not Applicable





#### 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:	Digital DAY/NIGHT SCOPE	Model No.:	ZULUS HD 3-12X LRF
Temperature:	20 °C	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:	Digital DAY/NIGHT SCOPE	Model No.:	ZULUS HD 3-12X LRF
Temperature:	20 °C	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

	Digital DAY/NIGHT SCOPE	Model No.:	ZULUS HD 3-12X LRF
Temperature:	20 °C	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 permanent attached FPC Antenna (Gain: -2 dBi). It comply with the standard requirement.



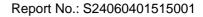


### 8 TEST RESULTS

#### 1M:

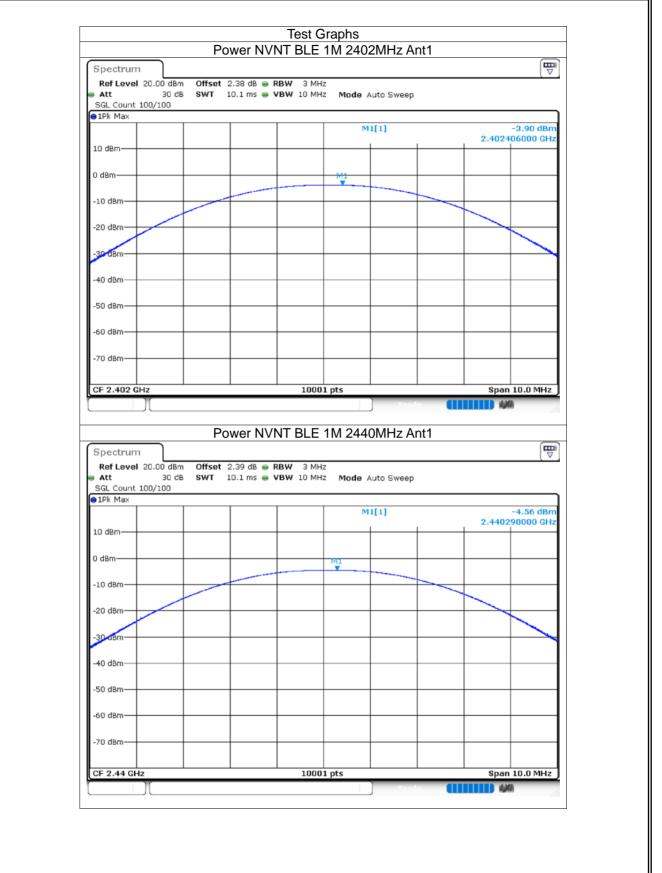
#### 8.1.1 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-3.9	30	Pass
NVNT	BLE 1M	2440	Ant1	-4.56	30	Pass
NVNT	BLE 1M	2480	Ant1	-5.9	30	Pass











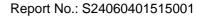
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Malahahaha	Certificate #4298.01

Spectrum		
Ref Level 20.00 dBm Offset 2.43	2 dB 🖷 RBW 3 MHz	( • ,
Att 30 dB SWT 10.1 SGL Count 100/100	1 ms 🖶 VBW 10 MHz 🛛 Mode Auto Sweep	
1Pk Max		
	M1[1]	-5.90 dBm
.0 dBm		2.480132000 GHz
) dBm		
	M1	
10 dBm		
20 dBm		
30 dbm		
40 dBm		
40 dBm		
50 dBm		
60 dBm		
70 dBm		
F 2.48 GHz	10001 pts	Span 10.0 MHz

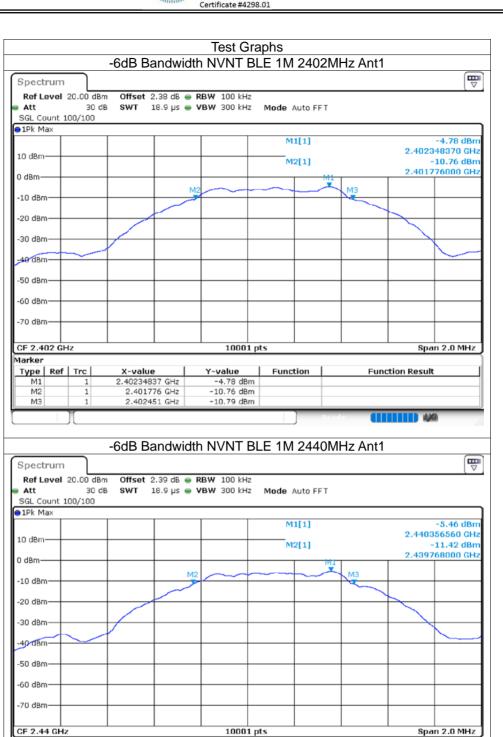


#### 8.1.2 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.675	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.687	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.691	0.5	Pass







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Marker

M2

МЗ

Type Ref Trc M1

1

1

X-value 2.44035656 GHz

2.439768 GHz

2.440455 GHz

Y-value -5.46 dBm

-11.42 dBm

-11.46 dBm

Function

Function Result

4,0



		-6dB Bandwid	th NVNT BL	E 1M 2480	MHz Ant1		
pectrum							₩
Ref Level	20.00 dBr	m Offset 2.42 dB 🥃	RBW 100 kHz				<u>`</u>
Att	30 d	B SWT 18.9 µs 👄	<b>VBW</b> 300 kHz	Mode Auto FFT			
GGL Count	100/100						
1Pk Max							
				M1[1]		-6.84	
.0 dBm			_			2.480344170	
				M2[1]		-12.85 2.479771000	
) dBm —				M	1	2.779771000	Griz
10.10			12		мз		
10 dBm			I Contraction				
20 dBm							
30 dBm							
40 dBm -	~						~
50 d0							
50 dBm —							
50 dBm							
70 dBm —							
F 2.48 GH	z		10001 pl	ts		Span 2.0 M	1Hz
larker						•	
Type   Ref	Trc	X-value	Y-value	Function	Fun	ction Result	
M1	1	2.48034417 GHz	-6.84 dBm				
M2	1	2.479771 GHz	-12.85 dBm				
MЗ	1	2.480462 GHz	-12.87 dBm				

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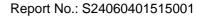


# 8.1.3 Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1M	2402	Ant1	1.042
NVNT	BLE 1M	2440	Ant1	1.035
NVNT	BLE 1M	2480	Ant1	1.037

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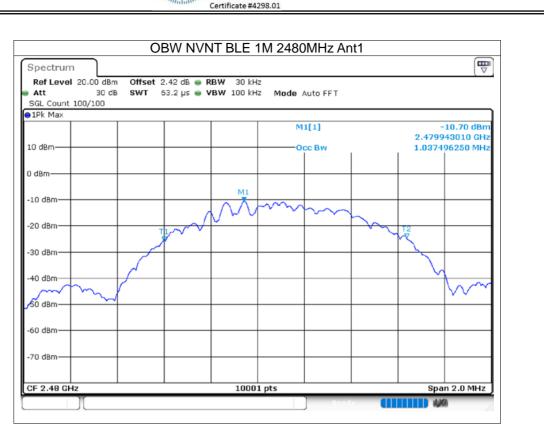












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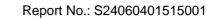
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# 8.1.4 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-20.7	8	Pass
NVNT	BLE 1M	2440	Ant1	-21.39	8	Pass
NVNT	BLE 1M	2480	Ant1	-21.86	8	Pass





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Spectrum			SD NVN						
Ref Level 20 Att				RBW 3 kH VBW 10 kH		Auto EET			( \
SGL Count 100									
●1Pk Max					M	1[1]			-20.70 dBm
10 dBm									211125 GHz
0 dBm									
-10 dBm									
-20 dBm						M1			
-30 dBm		m	Sound and	M. M	רייאינע אויאייריירי	an na malalanda	harman	mound	minno
-30 dBm	Jordin One								
-50 dBm									
-60 dBm									
-70 dBm									
7 0 0.Dill									
CF 2.402 GHz				1001	pts	I	I	Span 1.	.0125 MHz
		PS	SD NVN	T BLE 1	M 2440	) MHz An	nt1		
Spectrum Ref Level 20	.00 dBm 0			TBLE 1		) MHz An	nt1		
Ref Level 20 Att	30 dB 🛛 🛚	Offset 2	2.39 dB 👄 I		2		nt 1		
Ref Level 20 Att SGL Count 100	30 dB 🛛 🛚	Offset 2	2.39 dB 👄 I	RBW 3 kH	z z Mode	Auto FFT	at1		
Ref Level 20 Att	30 dB 🛛 🖇	Offset 2	2.39 dB 👄 I	RBW 3 kH	z z Mode		nt1		
Ref Level 20 Att SGL Count 100 P1Pk Max	30 dB 🛛 🖇	Offset 2	2.39 dB 👄 I	RBW 3 kH	z z Mode	Auto FFT	t1		-21.39 dBm
Ref Level 20 Att SGL Count 100 PIPk Max 10 dBm	30 dB 🛛 🖇	Offset 2	2.39 dB 👄 I	RBW 3 kH	z z Mode	Auto FFT	t1		-21.39 dBm
Ref Level 20           Att           SGL Count 100           1Pk Max           10 dBm           0 dBm           -10 dBm	30 dB S	Dffset 2 SWT 63	2.39 dB ● 1 32.1 µs ● 1	RBW 3 kH VBW 10 kH	2 z Mode . M	Auto FFT		2.440	21.39 dBm 011325 GHz
Ref Level 20           Att           SGL Count 100           1Pk Max           10 dBm           0 dBm           -10 dBm	30 dB S	Dffset 2 SWT 63	2.39 dB ● 1 32.1 µs ● 1	RBW 3 kH VBW 10 kH	2 z Mode . M	Auto FFT	t1	2.440	21.39 dBm 011325 GHz
Ref Level 20           Att           SGL Count 100           1Pk Max           10 dBm           0 dBm           -10 dBm	30 dB S	Dffset 2 SWT 63	2.39 dB ● 1 32.1 µs ● 1	RBW 3 kH VBW 10 kH	2 z Mode . M	Auto FFT		2.440	21.39 dBm 011325 GHz
Ref Level 20 Att SGL Count 100 PIPk Max 10 dBm 0 dBm	30 dB S	Dffset 2 SWT 63	2.39 dB ● 1 32.1 µs ● 1	RBW 3 kH VBW 10 kH	2 z Mode . M	Auto FFT		2.440	21.39 dBm 011325 GHz
Ref Level 20           Att           SGL Count 100           1Pk Max           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm	30 dB S	Dffset 2 SWT 63	2.39 dB ● 1 32.1 µs ● 1	RBW 3 kH VBW 10 kH	2 z Mode . M	Auto FFT		2.440	21.39 dBm 011325 GHz
Ref Level 20           Att           SGL Count 100           ID dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -50 dBm	30 dB S	Dffset 2 SWT 63	2.39 dB ● 1 32.1 µs ● 1	RBW 3 kH VBW 10 kH	2 z Mode . M	Auto FFT		2.440	21.39 dBm 011325 GHz
Ref Level 20           Att           SGL Count 100           P1Pk Max           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm/           -50 dBm           -60 dBm	30 dB S	Dffset 2 SWT 63	2.39 dB ● 1 32.1 µs ● 1	RBW 3 kH VBW 10 kH	z Mode . Mode .	Auto FFT		2.440	21.39 dBm 011325 GHz

Version.1.3





pectrum Ref Level 20 Att	0.00 dBm Offs 30 dB SW1	et 2.42 dB 👄 632 µs 👄	RBW 3 kHz VBW 10 kHz	Mode Auto FFT		
GL Count 100	00/1000					
1Pk Max				M1[1]	2.4	-21.86 dBm #8011595 GHz
0 dBm		_				
dBm						
LO dBm						
20 dBm				M1		
:0 dBm	double mark	mm	mar warmen	winni pertoni ji pertoningi al	and the second second second	W WWW WWWW
HO dammen	Wd war Way			VII Ventur Managerary		
60 dBm						_
0 dBm						_

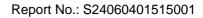


# 8.1.5 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-49.2	-20	Pass
NVNT	BLE 1M	2480	Ant1	-51.39	-20	Pass

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			Test G					
	Band E	dge NVI	NT BLE	1M 240	2MHz A	nt1 Ref		
Spectrum Ref Level 10.00 dB Att 25 c SGL Count 100/100			3W 100 kHz 3W 300 kHz	Mode A	uto FFT			
1Pk Max								E C L dE L
				M	1[1]		2.40	-5.61 dBm 210390 GHz
0 dBm				M1				
-10 dBm				$\sim$				
-20 dBm				-				
-30 dBm								
		~	$\int$		Ly .			
-40 dBm								
-50 dBm						<u></u>		
-68 dBm		$\sim$			^	$\sim$	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	um A
-70 dBm								~ ~ ~
-80 dBm								
CF 2.402 GHz			1001	nts			Sna	n 8.0 MHz
I Y				F				
	Band Edge	e NVNT	BLE 1M	2402M	) IHz Ant1	Emissi	on	
Spectrum RefLevel 10.00 dB Att 25 c	m Offset 2	.38 dB 🥃 R		2	IHz Ant1	Emissi	on	
Spectrum Ref Level 10.00 dB Att 25 c SGL Count 100/100	m Offset 2	.38 dB 🥃 R	<b>BW</b> 100 kH:	2 2 Mode #	Auto FFT	Emissi	on	
Spectrum Ref Level 10.00 dB Att 25 c SGL Count 100/100 ) 1Pk Max	m Offset 2	.38 dB 🥃 R	<b>BW</b> 100 kH:	2 2 Mode #		Emissi		-4.94 dBm 235000, GHz
Spectrum Ref Level 10.00 dB Att 25 c SGL Count 100/100 PIPk Max 0 dBm	m Offset 2	.38 dB 🥃 R	<b>BW</b> 100 kH:	2 2 Mode / M	Auto FFT	Emissi	2.40	-4.94 dBm
Spectrum           Ref Level 10.00 dB           Att         25 c           SGL Count 100/100           PIPk Max           0 dBm           -10 dBm	m Offset 2	.38 dB 🥃 R	<b>BW</b> 100 kH:	2 2 Mode / M	Auto FFT 1[1]	Emissi	2.40	-4.94 dBm 235000 GHz -59.32 #Bm
Spectrum Ref Level 10.00 dB Att 25 c SGL Count 100/100 PIPk Max 0 dBm -10 dBm -20 dBm D1 -25.6	m Offset 2 16 SWT 22	.38 dB 🥃 R	<b>BW</b> 100 kH:	2 2 Mode / M	Auto FFT 1[1]	Emissi	2.40	-4.94 dBm 235000 GHz -59.32 #Bm
Spectrum           Ref Level 10.00 dB           Att         25 c           SGL Count 100/100           IPk Max           0 dBm           -10 dBm           -20 dBm           -30 dBm	m Offset 2 16 SWT 22	.38 dB 🥃 R	<b>BW</b> 100 kH:	2 2 Mode / M	Auto FFT 1[1]	Emissi	2.40	-4.94 dBm 235000 GHz -59.32 #Bm
Spectrum           Ref Level 10.00 dB           Att         25 c           SGL Count 100/100           >IPk Max           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm	m Offset 2 16 SWT 22	.38 dB 🥃 R	<b>BW</b> 100 kH:	2 2 Mode / M	Auto FFT 1[1]	Emissi	2.40	-4.94 dBm 235000 GHz -59.32 #Bm
Spectrum           Ref Level 10.00 dB           Att 25 c           SGL Count 100/100           IPk Max           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm	m Offset 2 16 SWT 22	.38 dB ● <b>R</b> 7.5 μs ● <b>V</b>	BW 100 kH:	2 Mode / 	Auto FFT 1[1] 2[1]		2.40	-4.94 dBm 235000 GHz 59.32 dBm 000000 GHz
Spectrum           Ref Level 10.00 dB           Att 25 c           SGL Count 100/100           PIPk Max           0 dBm           -10 dBm           -20 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm	m Offset 2 16 SWT 22	.38 dB ● <b>R</b> 7.5 μs ● <b>V</b>	<b>BW</b> 100 kH:	2 Mode / 	Auto FFT 1[1] 2[1]		2.40	-4.94 dBm 235000 GHz 59.32 dBm 000000 GHz
Spectrum           Ref Level 10.00 dB           Att 25 c           SGL Count 100/100           >IPk Max           0 dBm           -10 dBm           -20 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -60 dBm           -70 dBm	m Offset 2 16 SWT 22	.38 dB ● <b>R</b> 7.5 μs ● <b>V</b>	BW 100 kH:	2 Mode / 	Auto FFT 1[1] 2[1]		2.40	-4.94 dBm 235000 GHz 59.32 dBm 000000 GHz
Spectrum           Ref Level 10.00 dB           Att 25 c           SGL Count 100/100           >IPk Max           0 dBm           -10 dBm           -20 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -60 dBm           -60 dBm           -70 dBm           -80 dBm	m Offset 2 16 SWT 22	.38 dB ● <b>R</b> 7.5 μs ● <b>V</b>	BW 100 kH:	2 Mode / 	Auto FFT 1[1] 2[1]		2.40 2.40	-4.94 dBm 235000 GHz -59.32 dBm 000000 GHz
Spectrum           Ref Level 10.00 dB           Att 25 c           SGL Count 100/100           IPk Max           0 dBm           -10 dBm           -20 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -60 dBm           -80 dBm           -80 dBm           -30 dBm	m Offset 2 16 SWT 22	.38 dB ● <b>R</b> 7.5 μs ● <b>V</b>	BW 100 kH:	2 Mode / 	Auto FFT 1[1] 2[1]		2.40 2.40	-4.94 dBm 235000 GHz 59.32 dBm 000000 GHz
Spectrum           Ref Level 10.00 dB           Att         25 c           SGL Count 100/100           IPk Max           0 dBm           -10 dBm           -20 dBm           -30 dBm           -50 dBm           -60 dBm           -80 dBm           -80 dBm           -80 dBm           -80 dBm           -70 dBm           -70 dBm           -70 dBm           -80 dBm           -80 dBm           -70 dBm           -80 dBm           -70 dBm           -70 dBm           -70 dBm           -80 dBm           -80 dBm           -80 dBm           -70 dBm           -70 dBm           -70 dBm           -80 dBm           -80 dBm           -80 dBm           -80 dBm           -70 dBm           -70 dBm           -80 dBm           -70 d	m Offset 2 16 SWT 22 12 dBm 12 dBm 12 dBm 12 dBm X-value	.38 dB <b>• R</b> 7.5 μs <b>• V</b>	BW 100 kH; BW 300 kH;	2 Mode / M M س س ب س الم الم س س س س س س س س س س س س س س س س س س س	Auto FFT 1[1] 2[1]		2.40 2.40	-4.94 dBm 235000 GHz -59.32 dBm 000000 GHz
Spectrum           Ref Level 10.00 dB           Att         25 c           SGL Count 100/100           IPk Max           0 dBm           -10 dBm           -20 dBm           -20 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -60 dBm           -60 dBm           -80 dBm           -10 dBm           -11 m           -12 m           -11 m	m Offset 2 18 SwT 22 12 dBm 12 dBm	.38 dB ● R 7.5 μs ● V	BW 100 kH; BW 300 kH; 	2 Mode / M M M M Pts Pts Funct	Auto FFT 1[1] 2[1]		2.40 2.40	-4.94 dBm 235000 GHz -59.32 dBm 000000 GHz
Spectrum           Ref Level 10.00 dB           Att 25 c           SGL Count 100/100           IPk Max           0 dBm           -10 dBm           -20 dBm           -20 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -60 dBm           -80 dBm           -70 dBm           -80 dBm           -70 dBm           -80 dBm           -70 dBm           -70 dBm           -80 dBm           -70 dBm           -80 dBm           -70 dBm           -80 dBm           -70 dBm	m Offset 2 16 SwT 22 12 dBm 12 dBm 12 dBm 2 dB	.38 dB ● R 7.5 µs ● V	BW 100 kH; BW 300 kH;	2 Mode / M M M M M M Fund	Auto FFT 1[1] 2[1]		2.40 2.40	-4.94 dBm 235000 GHz -59.32 dBm 000000 GHz



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Spectrum Ref Level 10.00 de	m Offset ?	42 dB 👄 🖻	<b>BW</b> 100 kHz						
Att 25	dB <b>SWT</b> 18		BW 300 kHz		uto FFT				
SGL Count 100/100									1
				M	1[1]			-7.02 dBm	
0 dBm							2.480	034370 GHz	
				M1					
-10 dBm			$\square$	<u>~~</u> {					
-20 dBm									
-30 dBm									
-40 dBm			$\sim$		m.				
		- 1	ľ						
-50 dBm					5				
-60 dBm		$\sim$				man	100.00		
mart M	Y Y	~				v	******	m	
-70 dBm									
-80 dBm									
			1001	nts			Spa	an 8.0 MHz	4
	Band Edge	e NVNT			] 1Hz Ant1	Emissio	<b></b> ) W	<b>a</b>	] 
Spectrum Ref Level 10.00 dE	3m Offset 2	.42 dB 👄 I	BLE 1M	1 2480N		Emissio	<b></b> ) W		]
Spectrum Ref Level 10.00 df Att 25 0 SGL Count 100/100	Bm Offset 2 dB SWT 22	.42 dB 👄 I	BLE 1M	1 2480N		Emissio	<b></b> ) W	<b>a</b>	
Spectrum Ref Level 10.00 df Att 25 0 SGL Count 100/100	Bm Offset 2 dB SWT 22	.42 dB 👄 I	BLE 1M	1 2480N <sup>2</sup> Mode /	Auto FFT	Emissio	<b></b> ) W		
Spectrum Ref Level 10.00 df Att 25 of SGL Count 100/100 •1Pk Max	Bm Offset 2 dB SWT 22	.42 dB 👄 I	BLE 1M	22480W 22 Mode /	Auto FFT	Emissio	2.480	-6.92 dBm 035000 GHz	
Spectrum Ref Level 10.00 dE Att 25 / SGL Count 100/100 • 1Pk Max 0 dBm	Bm Offset 2 dB SWT 22	.42 dB 👄 I	BLE 1M	22480W 22 Mode /	Auto FFT	Emissio	2.480	0 (₩ ▼ -6.92 dBm	
Spectrum Ref Level 10.00 df Att 25 s SGL Count 100/100 • 1Pk Max • 1Pk Max	Bm Offset 2 dB SWT 22	.42 dB 👄 I	BLE 1M	22480W 22 Mode /	Auto FFT	Emissio	2.480	-6.92 dBm ]35000 GHz -60.40 dBm	
Spectrum Ref Level 10.00 dB Att 25 i SGL Count 100/100 • 1Pk Max 0 dBm -10 dBm -20 dBm -20 dBm	Bm Offset 2 dB SWT 22	.42 dB 👄 I	BLE 1M	22480W 22 Mode /	Auto FFT	Emissio	2.480	-6.92 dBm ]35000 GHz -60.40 dBm	
Spectrum Ref Level 10.00 df Att 25 s SGL Count 100/100 • 1Pk Max • 1Pk Max	Bm Offset 2 dB SWT 22	.42 dB 👄 I	BLE 1M	22480W 22 Mode /	Auto FFT	Emissio	2.480	-6.92 dBm ]35000 GHz -60.40 dBm	
Spectrum Ref Level 10.00 dB Att 25 i SGL Count 100/100 • 1Pk Max 0 dBm -10 dBm -20 dBm -20 dBm	Bm Offset 2 dB SWT 22	.42 dB 👄 I	BLE 1M	22480W 22 Mode /	Auto FFT	Emissio	2.480	-6.92 dBm ]35000 GHz -60.40 dBm	
Spectrum Ref Level 10.00 df Att 25 5 SGL Count 100/100 • 1Pk Max 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm	Bm Offset 2 dB SWT 22	.42 dB 👄 I	BLE 1M	22480W 22 Mode /	Auto FFT	Emissio	2.480	-6.92 dBm ]35000 GHz -60.40 dBm	
Spectrum Ref Level 10.00 dE Att 25 SGL Count 100/100 • IPk Max 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -50 dBm -50 dBm -50 dBm -50 dBm -50 dBm	Am Offset 2 dB SWT 22	.42 dB ● I 7.5 μs ● '	BLE 1M	1 2480N 2 Mode / M	Auto FFT  1[1] 2[1]		2.480 2.483	-6.92 dBm ]35000 GHz -60.40 dBm ] 	
Spectrum Ref Level 10.00 df Att 25 s SGL Count 100/100 PIPk Max 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -50 dBm	Am Offset 2 dB SWT 22	.42 dB ● I 7.5 μs ● '	BLE 1M	1 2480N 2 Mode / M	Auto FFT  1[1] 2[1]	Emissio	2.480 2.483	-6.92 dBm ]35000 GHz -60.40 dBm ] 	
Spectrum Ref Level 10.00 df Att 25 5 SGL Count 100/100 • 1Pk Max • 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -40 dBm -50 dBm -50 dBm	Am Offset 2 dB SWT 22	.42 dB ● I 7.5 μs ● '	BLE 1M	1 2480N 2 Mode / M	Auto FFT  1[1] 2[1]		2.480 2.483	-6.92 dBm ]35000 GHz -60.40 dBm ] 	
Spectrum Ref Level 10.00 dB Att 25 SGL Count 100/100 • 1Pk Max 0 dBm -20 dBm -20 dBm -20 dBm -30 dBm -50 dBm -50 dBm -70 dBm -80 dBm	Am Offset 2 dB SWT 22	.42 dB ● I 7.5 μs ● '		1 2480N 2 Mode / M M	Auto FFT  1[1] 2[1]		2.480 2.483	-6.92 dBm 035000 GHz 60.40 dBm 350000 GHz	
Spectrum Ref Level 10.00 db Att 25 s SGL Count 100/100 • 1Pk Max 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -30 dBm -30 dBm -50 dBm -50 dBm -50 dBm -50 dBm -50 dBm -50 dBm -50 dBm -50 dBm -50 dBm -70 dBm -80 dBm -80 dBm	Am Offset 2 dB SWT 22	.42 dB ● I 7.5 μs ● '	BLE 1M	1 2480N 2 Mode / M M	Auto FFT  1[1] 2[1]		2.480 2.483	-6.92 dBm ]35000 GHz -60.40 dBm ] 	
Spectrum Ref Level 10.00 df Att 25 SGL Count 100/100 1Pk Max 0 dBm -20 dBm -20 dBm -30 dBm -30 dBm -50 dBm -50 dBm -50 dBm -80 dBm Start 2.475 GHz Marker Type Ref Trc	Am Offset 2 dB SWT 22	.42 dB ● I 7.5 μs ● '	BLE 1M	2 Mode / 2 Mode / M m pts Func	Auto FFT  1[1]  2[1]	ay short your your	2.480 2.483	-6.92 dBm 35000 GHz -60.40 dBm 50000 GHz	
Spectrum           Ref Level 10.00 dE           Att 25 s           SGL Count 100/100           • IPk Max           0 dBm           -20 dBm           -20 dBm           -30 dBm           -30 dBm           -20 dBm           -30 dBm           -70 dBm           -80 dBm           -80 dBm           Start 2.476 GHz           Marker           Type         Ref           Type         Ref	Bit         Offset         2           dB         SWT         22           J2D         dBm         J2D           Max         Max         Max           Max         Max         Max           Max         Max         Max           Max         Max         Max           X-value         2.4803         2.4803	.42 dB ● 1 7.5 μs ● 1 	BLE 1M	2 Mode / 2 Mode / M m pts Func	Auto FFT  1[1]  2[1]	ay short your your	2.480 2.480 2.483	-6.92 dBm 35000 GHz -60.40 dBm 50000 GHz	
Spectrum Ref Level 10.00 df Att 25 s SGL Count 100/100 1Pk Max 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -50 dBm -50 dBm -50 dBm -50 dBm -80 dBm	Am Offset 2 dB SWT 22 020 dBm 020 dBm M5 M2 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4	.42 dB ● I 7.5 μs ● '	BLE 1M	2 2 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4	Auto FFT  1[1]  2[1]	ay short your your	2.480 2.480 2.483	-6.92 dBm 35000 GHz -60.40 dBm 50000 GHz	



# 8.1.6 Conducted RF Spurious Emission

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Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-43.68	-20	Pass
NVNT	BLE 1M	2440	Ant1	-44.07	-20	Pass
NVNT	BLE 1M	2480	Ant1	-43.7	-20	Pass

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2.40211690 2.40211690 48m	
Pectrum         Ref Level 20.00 dbm         Offset 2.39 db @ RBW 100 Hz           Att         30 db         SWT         16.9 µs         WBW 300 kHz         Mode Auto FFT           64.Count 100/100         PK Max         M1[1]         -5.09         2.4921169C           0 dbm         MB         M1[1]         -5.09         2.4921169C           0 dbm         M1[1]         -5.09         2.4921169C           0 dbm         MB         M1[1]         -5.09           0 dbm         MB         M0[1]         0           0 dbm         MB         M0[1]         0           0 dbm         MB         M0[1]         -5.09           0 dbm         MB         M0[1]         -5.99           0 dbm         M1[1]	
Ref Level         20.00 dBm         Offset         2.38 dB         RBW         100 kHz           Att         30 dB         SWT         18.9 µs         VBW         300 kHz         Mode         Auto FFT         5.09           Count 100/100         IPK Max         M1[1]         -5.09         2.40211690           0 dBm         0 dBm         M1[1]         -5.09         3.00           0 dBm         0 dBm         M1[1]         -5.49         3.00           0 dBm         Offset 2.38 dB @ RBW 100 kHz         M1[1]         -5.49           Xt         30 dB @ WT         2.65 ms @ VBW 300 kHz         M0de Auto Sweep           GL Count 10/10         IPK Max         M1[1]         -5.49         2.49.	
GL Count 100/100           Pk Max           M1[1]         -5.09           dBm         M1[1]         -5.09           dBm         M1         0           0 dBm         0         0           0 dBm	
IPK Max       M1[1]       -5.09         0 dBm       0 dBm       0 dBm         0 dBm       0 dBm       0 d	
M1[1]     -5.09       2.40211690       dBm       0	
2.40211690 2.40211690 2.40211690 2.40211690 2.40211690 2.4021690 2.4021690 2.4021690 2.4021690 2.4021690 2.4021690 2.4021690 2.4021690 2.4021690 2.4021690 2.4021690 2.4021690 2.4021690 2.4021690 2.4021690 2.4021 2.4021 2.4021 2.4021 2.402 2.4021 2.402 2.4021 2.402 2.402 2.402 2.4021 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.402 2.40 2.40	)9 dBm
d8m         M1           0 d8m         M1           0 d8m         0 d8m           0 d8m         0 ffset 2.38 d8           0 d8m	
0 dBm 0	
0 dBm 0	
0 dBm 0	
0 dBm 0	
0 dBm 0	
O dBm         M1[1]         -5.89         O dBm         O dBm <th< td=""><td><math>\overline{}</math></td></th<>	$\overline{}$
O dBm         M1[1]         -5.89         O dBm         O dBm <th< td=""><td></td></th<>	
0 dBm 0 dBm Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission Prof/ Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission Pectrum Ref Level 20.00 dBm 0	
0 dBm 0 dBm Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission Prof/ Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission Pectrum Ref Level 20.00 dBm 0	
0 dBm 0 dBm 0 dBm 0 dBm F 2.402 GHz F 2.402 GHz Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission Pectrum Ref Level 20.00 dBm 0 d	
0 dBm         Image: Second system         Span 1.5 f           F 2.402 GHz         1001 pts         Span 1.5 f           F 2.402 GHz         Track         Span 1.5 f           Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission         Image: Span 1.5 f           pectrum         Ref Level 20.00 dBm         Offset 2.38 dB @ RBW 100 kHz           Att         30 dB         SWT         265 ms @ VBW 300 kHz           Mode Auto Sweep         GL Count 10/10         Image: Span 1.5 f           Pk Max         M1[1]         -5.89           0 dBm         M2[1]         -48.77           0 dBm         M2[1]         -48.77           0 dBm         M1[1]         -5.89           0 dBm         M1[1]         -1.90	
0 dBm         Image: Second system         Span 1.5 f           F 2.402 GHz         1001 pts         Span 1.5 f           F 2.402 GHz         Track         Span 1.5 f           Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission         Image: Span 1.5 f           pectrum         Ref Level 20.00 dBm         Offset 2.38 dB @ RBW 100 kHz           Att         30 dB         SWT         265 ms @ VBW 300 kHz           Mode Auto Sweep         GL Count 10/10         Image: Span 1.5 f           Pk Max         M1[1]         -5.89           0 dBm         M2[1]         -48.77           0 dBm         M2[1]         -48.77           0 dBm         M1[1]         -5.89           0 dBm         M1[1]         -1.90	
F 2.402 GHz         1001 pts         Span 1.5 f           Deserver           Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission           pectrum           Ref Level 20.00 dBm Offset 2.38 dB @ RBW 100 kHz           Att 30 dB SWT 265 ms @ VBW 300 kHz           Mode Auto Sweep           GL Count 10/10           IPK Max           M1[1]           0 dBm           M2[1]           0 dBm           0 dBm <td< td=""><td></td></td<>	
F 2.402 GHz         1001 pts         Span 1.5 f           Deserver           Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission           pectrum           Ref Level 20.00 dBm Offset 2.38 dB @ RBW 100 kHz           Att 30 dB SWT 265 ms @ VBW 300 kHz           Mode Auto Sweep           GL Count 10/10           IPK Max           M1[1]           0 dBm           M2[1]           0 dBm           0 dBm <td< td=""><td></td></td<>	
Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission           pectrum           Ref Level 20.00 dBm Offset 2.38 dB • RBW 100 kHz           Att 30 dB SWT 265 ms • VBW 300 kHz         Mode Auto Sweep           GL Court 10/10         IPk Max           M1[1]         -5.89           0 dBm         M1[1]         -5.89           0 dBm         M1[1]         -7.034           0 dBm         0 dBm         0 dBm         0 dBm	
Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission           pectrum           Ref Level 20.00 dBm Offset 2.38 dB • RBW 100 kHz           Att 30 dB SWT 265 ms • VBW 300 kHz         Mode Auto Sweep           GL Court 10/10         IPk Max           M1[1]         -5.89           0 dBm         M1[1]         -5.89           0 dBm         M1[1]         -7.034           0 dBm         0 dBm         0 dBm         0 dBm	
M1[1]         -5.89           0 dBm         0 dBm         M1[1]         -5.89           0 dBm         0 dBm         M1[1]         -7.2034           0 dBm         0 dBm         0 dBm         0 dBm         0 dBm           0 dBm         0 dBm         0 dBm         0 dBm         0 dBm         0 dBm	5 MHz
Att         30 dB         SWT         265 ms         VBW 300 kHz         Mode         Auto Sweep           GL Count 10/10	
IPK Max     M1[1]     -5.89       0 dBm     M2[1]     -48.77       dBm     M2[1]     -48.77       0 dBm     0 dBm     0 dBm       0 dBm     0 dBm     0 dBm	
0 dBm     M1[1]     -5.89       0 dBm     M2[1]     -48.77       0 dBm     7.2034     7.2034       0 dBm     0 dBm     0 dBm       0 dBm     0 dBm     0 dBm	
0 dBm     2.3970       0 dBm     M2[1]       -48.77       0 dBm     7.2034       0 dBm     0	39 dBm
dBm	70 GHz
0 dBm 01 -25.085 dBm 0 0 0 dBm 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	77 dBm 34 GHz
0 dBm 0 dBm 0 1 -25.085 dBm 0 1 0 1 -25.085 dBm 0 1 0 1 -25.085 dBm 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	
0 dBm M2	
0 dBm 0 dBm 0 dBm	
Me	
Me	
a martine the same have a martine and when a source of the	4 million and a start and a start and a start a
0'danina in the second s	
0 dBm	
rart 30.0 MHz 1001 pts Stop 26.5 Inker	
ype   Ref   Trc   X-value   Y-value   Function   Function Result	5 GHz
M1 1 2.397 GHz -5.89 dBm	5 GHz
M2         1         7.2034 GHz         -48.77 dBm           M3         1         4.9534 GHz         -54.95 dBm	5 GHz
M4 1 7.2034 GHz -48.77 dBm	5 GHz
M5 1 9.6121 GHz -53.41 dBm 1	5 GHz



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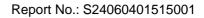
RefLevel 1 Att	0.00 dBm Off 30 dB SW		RBW 100 kHz VBW 300 kHz	Mode Auto FFT			
SGL Count 10	0/100						
●1Pk Max				M1[1]			-6.02 dBm
						2.44035	25380 GHz
0 dBm					M1		
-10 dBm		_			-		
-20 dBm							
-30 dBm							
-50 ubili							
-40 dBm			_				
-50 dBm							
-60 dBm							
-70 dBm							
-80 dBm							
-ou ubili							
		1					
CE 2.44 GHz			30001 nt	ts		Sna	n 1.5 MHz 1
CF 2.44 GHz			30001 p	R			m 1.5 MHz ) M
Spectrum Ref Level 1	0.00 dBm Off 30 dB SW	<b>set</b> 2.39 dB 👄		2440MHz A	nt1 Emiss		
Spectrum Ref Level 10	0.00 dBm Off 30 dB SW	<b>set</b> 2.39 dB 👄	NT BLE 1M	2440MHz A Mode Auto Swe	nt1 Emiss		
Spectrum Ref Level 10 Att SGL Count 10 1Pk Max	0.00 dBm Off 30 dB SW	<b>set</b> 2.39 dB 👄	NT BLE 1M	2440MHz A	nt1 Emiss	ion	
Spectrum Ref Level 10 Att SGL Count 10 1Pk Max	0.00 dBm Off 30 dB SW	<b>set</b> 2.39 dB 👄	NT BLE 1M	2440MHz A Mode Auto Swe	nt1 Emiss	ion 2.4	-6.49 dBm 140010 GHz 50.09 dBm
Spectrum Ref Level 10 Att SGL Count 10 1Pk Max 0 dBm -10 dBm	0.00 dBm Off 30 dB SW	<b>set</b> 2.39 dB 👄	NT BLE 1M	2440MHz A Mode Auto Swe	nt1 Emiss	ion 2.4	-6.49 dBm H40010 GHz
Spectrum Ref Level 10 Att SGL Count 10 1Pk Max 0 dBm -10 dBm -20 dBm	0.00 dBm Off 30 dB SW /10	<b>set</b> 2.39 dB 👄	NT BLE 1M	2440MHz A Mode Auto Swe	nt1 Emiss	ion 2.4	-6.49 dBm 140010 GHz 50.09 dBm
Spectrum Ref Level 10 Att SGL Count 10, 1Pk Max 0 dBm -10 dBm -20 dBm	0.00 dBm Off 30 dB SW	<b>set</b> 2.39 dB 👄	NT BLE 1M	2440MHz A Mode Auto Swe	nt1 Emiss	ion 2.4	-6.49 dBm 140010 GHz 50.09 dBm
Spectrum Ref Level 10 Att SGL Count 10 1Pk Max 0 dBm -10 dBm -20 dBm	0.00 dBm Off 30 dB Sw /10 -26.017 dBm-	set 2.39 dB ● /T 265 ms ●	NT BLE 1M	2440MHz A Mode Auto Swe	nt1 Emiss	ion 2.4	-6.49 dBm 140010 GHz 50.09 dBm
Spectrum Ref Level 10 Att SGL Count 10, 1Pk Max 0 dBm -10 dBm -20 dBm -30 dBm D1	-26.017 dBm	set 2.39 dB ● /T 265 ms ●	NT BLE 1M 2 RBW 100 kHz VBW 300 kHz	2440MHz A Mode Auto Swe M1[1] M2[1]	ep	2.4 6.8	-6.49 dBm H40010 GHz 550.09 dBm B38966 GHz
Spectrum Ref Level 10 Att SGL Count 10, 1Pk Max 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm	-26.017 dBm	set 2.39 dB ● /T 265 ms ●	NT BLE 1M 2 RBW 100 kHz VBW 300 kHz	2440MHz A Mode Auto Swe	ep	2.4 6.8	-6.49 dBm H40010 GHz 550.09 dBm B38966 GHz
Spectrum Ref Level 10 Att SGL Count 10 1Pk Max 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -50 dBm	-26.017 dBm	set 2.39 dB ● /T 265 ms ●	NT BLE 1M 2 RBW 100 kHz VBW 300 kHz	2440MHz A Mode Auto Swe 	ep	2.4 6.8	-6.49 dBm H40010 GHz 550.09 dBm B38966 GHz
Spectrum Ref Level 10 SGL Count 10 9 1Pk Max 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm -70 dBm	-26.017 dBm	set 2.39 dB ● /T 265 ms ●	NT BLE 1M 2 RBW 100 kHz VBW 300 kHz	2440MHz A Mode Auto Swe 	ep	2.4 6.8	-6.49 dBm H40010 GHz 550.09 dBm B38966 GHz
Spectrum Ref Level 10 Att SGL Count 10 1Pk Max 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm	-26.017 dBm	set 2.39 dB ● /T 265 ms ●	NT BLE 1M 2 RBW 100 kHz VBW 300 kHz	2440MHz A Mode Auto Swe 	ep	2.4 6.8	-6.49 dBm H40010 GHz 550.09 dBm B38966 GHz
Spectrum Ref Level 10 SGL Count 10 9 1Pk Max 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm -70 dBm	-26.017 dBm	set 2.39 dB ● /T 265 ms ●	NT BLE 1M 2 RBW 100 kHz VBW 300 kHz	2440MHz A Mode Auto Swe M1[1] M2[1]	ep	2.4 6.8	-6.49 dBm H40010 GHz 550.09 dBm B38966 GHz
Spectrum Ref Level 10 Att SGL Count 10 1Pk Max 0 dBm 10 1Pk Max 0 dBm 20	0.00 dBm Off 30 dB SW /10 -26.017 dBm -26.017 dBm	set 2.39 dB  T 265 ms T	NT BLE 1M 2 RBW 100 kHz VBW 300 kHz 	2440MHz A Mode Auto Swe M1[1] M2[1] M2[1] L L L L L L L L	nt1 Emiss	2.4 6.8	-6.49 dBm H40010 GHz 50.09 dBm B38966 GHz
Spectrum Ref Level 10 Att SGL Count 10 1Pk Max 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm -50 dBm -70 dBm -80 dBm -80 dBm -80 dBm -80 dBm	0.00 dBm Off 30 dB SW /10 -26.017 dBm -26.017 dBm -26.017 dBm -26.017 dBm	set 2.39 dB ● /T 265 ms ●	NT BLE 1M 2 RBW 100 kHz VBW 300 kHz	2440MHz A Mode Auto Swe M1[1] M2[1]	nt1 Emiss	2.4 6.8	-6.49 dBm H40010 GHz 50.09 dBm B38966 GHz
Spectrum Ref Level 10 Att SGL Count 10 1Pk Max 0 dBm -10 dBm -20 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm -50 dBm -70 dBm -70 dBm -80 dBm -	0.00 dBm Off 30 dB SW /10 -26.017 dBm -26.017 dBm iz Iz Iz Iz Iz Iz Iz Iz	set 2.39 dB           /T           /265 ms           ////////////////////////////////////	NT BLE 1M 2 RBW 100 kHz VBW 300 kHz VBW 300 kHz 1 1 1 1 1 1 1 1 1 1 1 1 1	2440MHz A Mode Auto Swe M1[1] M2[1] M2[1] L L L L L L L L	nt1 Emiss	2.4 6.8	-6.49 dBm H40010 GHz 50.09 dBm B38966 GHz
Spectrum  Ref Level 10 SGL Count 10  TPk Max  0 dBm 0 dBm 0 -10 dBm -20 dBm -20 dBm -20 dBm -30 dBm -40 dBm -40 dBm -50 dBm -50 dBm -70 dBm -80 dBm -8	-26.017 dBm -26.017 dBm -27.017 dBm -27.01	set 2.39 dB ●           /T         265 ms ●           /IT         265 ms ●           /IX/4         MG           /IX/4         MG	NT BLE 1M 2 RBW 100 kHz VBW 300 kHz VBW 300 kHz	2440MHz A Mode Auto Swe M1[1] M2[1] M2[1] L L L L L L L L	nt1 Emiss	2.4 6.8	-6.49 dBm H40010 GHz 50.09 dBm B38966 GHz
Spectrum Ref Level 10 Att SGL Count 10 1Pk Max 0 dBm -10 dBm -20 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm -70 dBm -70 dBm -80 dBm	-26.017 dBm -26.017 dBm -27.017 dBm -27.01	xalue 2.44001 GHz 838966 GHz 997537 GHz	NT BLE 1M 2 RBW 100 kHz VBW 300 kHz 	2440MHz A Mode Auto Swe M1[1] M2[1] M2[1] L L L L L L L L	nt1 Emiss	2.4 6.8	-6.49 dBm 40010 GHz 50.09 dBm 38966 GHz 0 26.5 GHz



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Ref Level Att	30 dB		<ul> <li>● RBW 100 kHz</li> <li>● VBW 300 kHz</li> </ul>	Mode Auto FF	т		
SGL Count 1 91Pk Max	.00/100						
				M1[1]			-7.39 dBm
10 dBm						2.4801	741440 GHz
0 dBm				M1			
-10 dBm				¥	~~~~		
-10 UBIII						+	
-20 dBm							
-30 dBm							
-46.dBm						_	
-50 dBm							<b>   </b>
-60 dBm							
oo abiii							
-70 dBm							
CF 2.48 GH2 Spectrum Ref Level	)[ 		30001		Ant1 Emis		an 1.5 MHz
Spectrum	Tx. 20.00 dBm 30 dB	Offset 2.42 dB	VNT BLE 1M	2480MHz /			
Spectrum Ref Level	Tx. 20.00 dBm 30 dB	Offset 2.42 dB		2480MHz / Mode Auto Sv			
Spectrum Ref Level Att SGL Count 1	Tx. 20.00 dBm 30 dB	Offset 2.42 dB		2480MHz / Mode Auto Sv M1[1]		sion 2.	-7.78 dBm 479720 GHz
Spectrum Ref Level Att SGL Count 1 IPk Max 10 dBm	Tx. 20.00 dBm 30 dB	Offset 2.42 dB		2480MHz / Mode Auto Sv		sion 2.	-7.78 dBm 479720 GHz -51.09 dBm
Spectrum Ref Level Att SGL Count 1 9 IPk Max 10 dBm 0 dBm	Tx. 20.00 dBm 30 dB	Offset 2.42 dB		2480MHz / Mode Auto Sv M1[1]		sion 2.	-7.78 dBm 479720 GHz
Spectrum Ref Level Att SGL Count 1 9 1Pk Max 10 dBm 0 dBm  -10 dBm	Tx. 20.00 dBm 30 dB	Offset 2.42 dB		2480MHz / Mode Auto Sv M1[1]		sion 2.	-7.78 dBm 479720 GHz -51.09 dBm
Spectrum Ref Level Att SGL Count 1 •1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm	Tx. 20.00 dBm 30 dB	Offset 2.42 dB SWT 265 ms		2480MHz / Mode Auto Sv M1[1]		sion 2.	-7.78 dBm 479720 GHz -51.09 dBm
Spectrum Ref Level Att SGL Count 1 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm	Tx. 20.00 dBm 30 dB	Offset 2.42 dB SWT 265 ms		2480MHz / Mode Auto Sv M1[1]		sion 2.	-7.78 dBm 479720 GHz -51.09 dBm
Spectrum Ref Level Att SGL Count 1 •1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm	Tx. 20.00 dBm 30 dB	Offset 2.42 dB     SWT 265 ms		2480MHz / Mode Auto Sv M1[1]		sion 2.	-7.78 dBm 479720 GHz -51.09 dBm
Spectrum Ref Level Att SGL Count 1 PIPK Max 10 dBm 0 dBm M3 -10 dBm -20 dBm -30 dBm	Tx. 20.00 dBm 30 dB	Offset 2.42 dB SWT 265 ms	VNT BLE 1M	2480MHz / Mode Auto Sv M1[1] M2[1]	veep	sion 2.	-7.78 dBm 479720 GHz -51.09 dBm
Spectrum Ref Level Att SGL Count 1 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	Tx. 20.00 dBm 30 dB	Offset 2.42 dB     SWT 265 ms		2480MHz / Mode Auto Sv M1[1]	veep	sion 2.	-7.78 dBm 479720 GHz -51.09 dBm
Spectrum Ref Level Att SGL Count 1 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	Tx. 20.00 dBm 30 dB	Offset 2.42 dB     SWT 265 ms	VNT BLE 1M	2480MHz / Mode Auto Sv M1[1] M2[1]	veep	sion 2.	-7.78 dBm 479720 GHz -51.09 dBm
Spectrum Ref Level Att SGL Count 1 PIPK Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -70 dBm -70 dBm	Tx. 20.00 dBm 30 dB 0/10	Offset 2.42 dB     SWT 265 ms	VNT BLE 1M	2480MHz / Mode Auto Sy M1[1] M2[1]	veep	2. 7.	-7.78 dBm 479720 GHz -51.09 dBm 439835 GHz
Spectrum Ref Level Att SGL Count 1 PIPk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -70 dBm Stort 30.0 M	Tx. 20.00 dBm 30 dB 0/10	Offset 2.42 dB     SWT 265 ms	VNT BLE 1M	2480MHz / Mode Auto Sy M1[1] M2[1]	veep	2. 7.	-7.78 dBm 479720 GHz -51.09 dBm
Spectrum Ref Level Att SGL Count 1 PIPK Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -70 dBm -70 dBm	Tx. 20.00 dBm 30 dB 0/10	dBm	VNT BLE 1M	2480MHz / Mode Auto Sv M1[1] M2[1] M2[1] pts		2. 7.	-7.78 dBm 479720 GHz -51.09 dBm 439835 GHz
Spectrum Ref Level Att SGL Count 1 PIPK Max 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -40 dBm -70 dBm	Tx. 20.00 dBm 30 dB 0/10 11 -27.390 11 -27.390 11 -27.390 11 -27.390	Offset 2.42 dB SWT 265 ms dBm dBm MB www.u.u.u.u.u.u.u.u.u.u.u.u.u.u.u.u.u.u	VNT BLE 1M	2480MHz / Mode Auto Sv M1[1] M2[1] M2[1] M2[1] M2[1] M2[1]		2. 7. 5.00	-7.78 dBm 479720 GHz -51.09 dBm 439835 GHz
Spectrum Ref Level Att SGL Count 1 PIPk Max 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -40 dBm -50 dBm -70 dBm -7	Tx. 20.00 dBm 30 dB 0/10 01 -27.390 11 -27.390 11 -27.390 11 -27.390 11 -27.390	Offset 2.42 dB           SWT 265 ms           dBm           dBm           dBm           x-value           2.47972 GHz           7.43935 GHz           4.982537 GHz	VNT BLE 1M	2480MHz / Mode Auto Sy M1[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1]		2. 7. 5.00	-7.78 dBm 479720 GHz -51.09 dBm 439835 GHz
Spectrum           Ref Level           Att           SGL Count 1           ID dBm           0 dBm           10 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           Values of the second secon	Tx. 20.00 dBm 30 dB 0/10 1 -27.390 1 -27.390 Hz Hz	Offset 2.42 dB     SWT 265 ms	VNT BLE 1M	2480MHz / Mode Auto Sv M1[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1]		2. 7. 5.00	-7.78 dBm 479720 GHz -51.09 dBm 439835 GHz
Spectrum Ref Level Att SGL Cout 1 PIPk Max 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -40 dBm -50 dBm Vertices vertices Stort 30.0 M Marker Type Ref M1 M2 M3 M4	Tx. 20.00 dBm 30 dB 0/10 1 -27.390 M2 M2 M2 11 1 1 1 1 1	Offset 2.42 dB SWT 265 ms dBm dBm dBm x-value 2.47972 GHz 7.439835 GHz 7.439835 GHz 7.439835 GHz	VNT BLE 1M	2480MHz / Mode Auto Sv M1[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1]	veep	2. 7. 5.00	-7.78 dBm 479720 GHz -51.09 dBm 439835 GHz

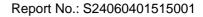






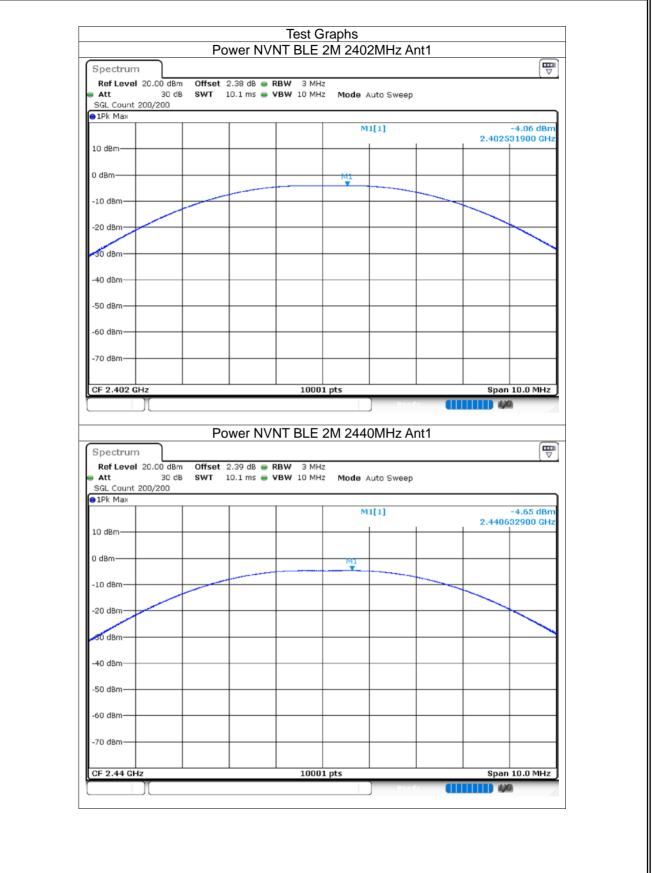
#### 8.1.7 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 2M	2402	Ant1	-4.06	30	Pass
NVNT	BLE 2M	2440	Ant1	-4.65	30	Pass
NVNT	BLE 2M	2480	Ant1	-5.96	30	Pass











Spectrum		
Ref Level 20.00 dBm Offset 2.42 dB ● RBW 3 M Att 30 dB SWT 10.1 ms ● VBW 10 M 5GL Count 200/200		( • )
1Pk Max		
	M1[1]	-5.96 dBm 2.480682900 GHz
0 dBm		
dBm	M1	
10 dBm		
20 dBm		
dBm		
40 dBm		
50 dBm		
60 dBm		
70 dBm		
F 2.48 GHz 100	01 pts	Span 10.0 MHz

ilac-MR

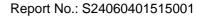
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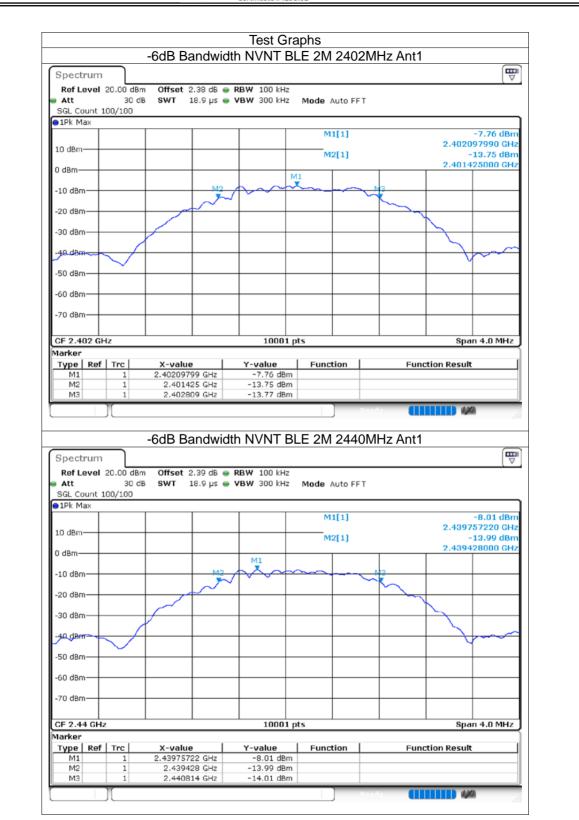
#### 8.1.8 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 2M	2402	Ant1	1.384	0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.386	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.342	0.5	Pass

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	_	-6dB Band	width NVNT	ΒL	E 2101 2480	JIVIHZ ANt1		_
pectrum								
Ref Level 20	0.00 dBm	Offset 2.42 d	iB 曼 RBW 100 k	Hz				
Att	30 dB	SWT 18.9 µ	is 👄 <b>VBW</b> 300 k	Hz	Mode Auto FF	т		
GL Count 10	0/100							
1Pk Max								
					M1[1]			-9.38 dBm
dBm								54020 GHz
					M2[1]			15.41 dBm
dBm							2.4794	39000 GHz
			M1					I
.0 dBm			M2			. WR		
					4~~			
20 dBm				+			+	
30 dBm —				+				
	,						$  \rangle  $	
40 dBm	- /			+			$+ \gamma$	~~~~
	$\langle    $						1 M	
0 dBm	~			+			+ +	
0 dBm				+				
0 dBm				+				
F 2.48 GHz			100	01 pt:	s		Spa	1 4.0 MHz
arker								
ype Ref	Trc	X-value	Y-value		Function	Fun	ction Result	1
M1	1	2.47975402 GH	lz -9.38 d	Bm				
M2	1	2.479439 GH						
M3	1	2.480781 GH	iz -15.38 d	iBm				

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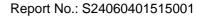


# 8.1.9 Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 2M	2402	Ant1	2.067
NVNT	BLE 2M	2440	Ant1	2.061
NVNT	BLE 2M	2480	Ant1	2.05

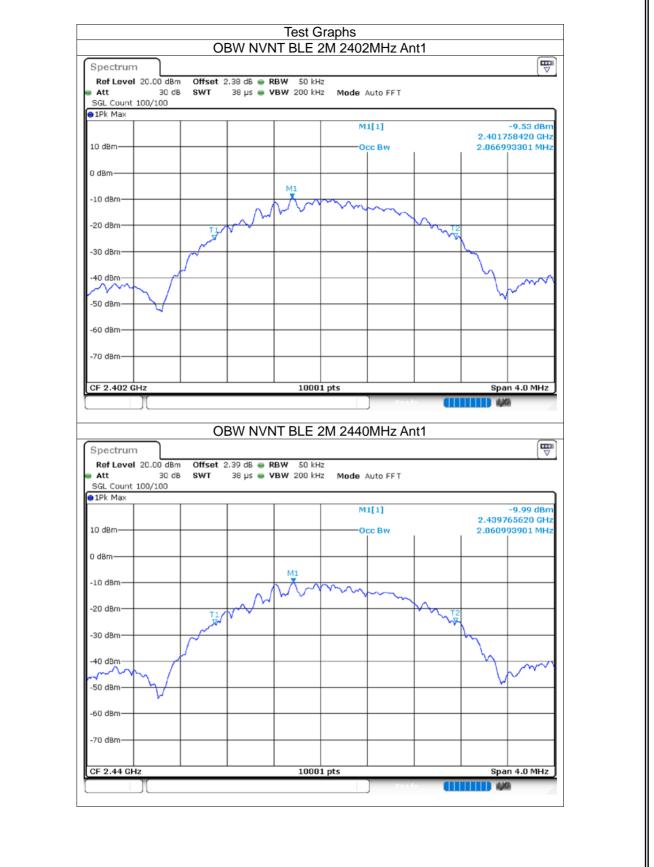
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40 dBm

-50 dBm

-60 dBm· -70 dBm

CF 2.48 GHz

#### Report No.: S24060401515001

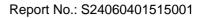
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Span 4.0 MHz

1,00

KJ	上测	8	ac-mra	ACCREDI Certificate #4	and a second second		Re	eport No	o.: S240
		0					4		
		O		IT BLE 2	211/1 2480	JIVIHZ Ar	ITI		
Spectrur	n								
Ref Leve Att SGL Count	l 20.00 dBm 30 dB 100/100		2.42 dB 👄 R 38 µs 👄 V	BW 50 kH BW 200 kH	-	Auto FFT			
●1Pk Max	_	_	-	_					
					м	1[1]			11.30 dBm 71220 GHz
10 dBm					0	CC BW			94981 MHz
0 dBm									
				M1					
-10 dBm—				M	$\sim$				
-20 dBm—		TL	$\sim$						
-30 dBm—		- The second second						L.	
		17							

10001 pts







# 8.1.10 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Limit (dBm)	Verdict
NVNT	BLE 2M	2402	Ant1	-25.63	8	Pass
NVNT	BLE 2M	2440	Ant1	-26.33	8	Pass
NVNT	BLE 2M	2480	Ant1	-27.2	8	Pass





Certificate #4298.01	

Ref Level 20.0 dbm         Offset 2.38 db e RBW 3 kHz           Att         30 db SWT 032.2 µs e VBW 10 kHz           SGL Count 100/100         IPF Max           10 dbm         2.402 [17700 GF           0 dbm         10 dbm           -10 dbm         10 dbm           -20 dbm         10 dbm           -30 dbm         10 dbm           -20 dbm         10 dbm           -20 dbm         10 dbm           -30 dbm         10 dbm           -30 dbm         10 dbm           -20 dbm         10 dbm           -30 dbm         10 dbm           -30 dbm         10 dbm           -30 dbm         10 dbm           -20 dbm         10 dbm           -30 dbm         10 dbm           -30 dbm         10 dbm           -30 dbm         10 dbm           -70 dbm         10 dbm		PS	D NVNT BLE	Graphs 2M 2402MHz A	nt1	
Ref Level 20.00 dBm         Offset 2.38 dB @ PBW 3 kHz           SGL Count 100/100         BWT 632.2 µs @ VBW 10 kHz           ID dBm         M1[1]         -25.63 dB           ID dBm         M1[1]         -26.63 dB           ID dBm         M1[1]         -26.63 dB           -10 dBm         M1         -20 dBm           -20 dBm         M1         -20 dBm           -30 dBm         M1         -20 dBm           -70 dBm         <	Spectrum	1				
1Pk Max       M1[1]       -25.63 dB         10 dBm       2.402117700 G         0 dBm       2.402117700 G         -10 dBm       40 dBm         -20 dBm       41         -20 dBm       41         -30 dBm       41         -50 dBm       59         -70 dBm       50         -70 dBm       50.65         System       52.1 µS         System	Ref Level 20.00 Att	30 dB <b>SWT</b> 63:				(v)
10 dBm       2.402117700 G         0 dBm       2.402117700 G         10 dBm       2.402117700 G         10 dBm       2.402117700 G         10 dBm       2.402117700 G         -10 dBm       2.402117700 G         -20 dBm       2.40217700 G         -30 dBm       2.40217700 G         -30 dBm       2.40217700 G         -40 dBm       2.402 G         -50 dBm       2.402 G         -50 dBm       2.402 G         -70 dBm       2.402 G         -70 dBm       2.402 G         -70 dBm       2.402 G         Spectrum       PSD NVNT BLE 2M 2440MHz Ant1         Spectrum       PSD NVNT BLE 2M 2440MHz Ant1         Spectrum       9.400 SWT 632.1 µS • VBW 10 kHz         M1[1]       2.401 19320 G         0 dBm       2.401 19320 G         10 dBm       2.401 19320 G         0 dBm       2.401 19320 G		00				
10 dem				M1[1]		-25.63 dBm
-10 dBm -20 dBm -30 dBm -30 dBm -30 dBm -30 dBm -40 dBm -40 dBm -40 dBm -40 dBm -50 dBm -50 dBm -60 dBm -70	10 dBm				2.402	117700 GHz
-20 dBm -30 dBm -40 6Bm -50 dBm -50 dBm -70	0 dBm					
-30 dBm -40 dBm -50 dBm -50 dBm -60 dBm -70	-10 dBm					
-30 dBm -40,680 -50 dBm -60 dBm -70	-20 dBm			T. I.		
-50 dBm -60 dBm -70	-30 dBm	and a start way way and a start way and a start way	provide and the second of the		man and a second a secon	manut man
-60 dBm -70 dBm -70 dBm -70 dBm CF 2.402 GHz DSD NVNT BLE 2M 2440MHz Ant1 Spectrum Ref Level 20.00 dBm SWT 632.1 µs VBW 10 kHz Mode Auto FFT SGL Count 100/100 • 1Pk Max 10 dBm -10 dBm -20 dBm -30 dBm -10 dBm -1	Manara					
-70 dBm         Image: CF 2.402 GHz         10001 pts         Span 2.076 MH:           OF 2.402 GHz         OPACHY           PSD NVNT BLE 2M 2440MHz Ant1           Spectrum           Ref Level 20.00 dBm         Offset 2.39 dB         RBW 3 kHz           Att 30 dB         SWT 632.1 µs         VBW 10 kHz         Mode Auto FFT           SGL Count 100/100         Image: Count						
CF 2.402 GHz         10001 pts         Span 2.076 MHz           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 632.1 µs         • VBW 10 kHz         Mode Auto FFT           SGL Count 100/100         • 0 dBm         • 10 dBm         • 10 dBm         • 10 dBm           • 10 dBm         • 10 dBm         • 10 dBm         • 11 dBm         • 11 dBm         • 11 dBm						
PSD NVNT BLE 2M 2440MHz Ant1           Spectrum           Ref Level 20.00 dBm Offset 2.39 dB @ RBW 3 kHz           Att         30 dB         SWT 632.1 µs         VBW 10 kHz         Mode Auto FFT           SGL Count 100/100         Image: Count 100/100           Image: Image: Image: Count 100/100         Image: Count 100	-70 dBm					
PSD NVNT BLE 2M 2440MHz Ant1           Spectrum           Ref Level 20.00 dBm         Offset 2.39 dB • RBW 3 kHz           Att         30 dB SWT 632.1 µs • VBW 10 kHz           Max         Mode Auto FFT           SGL Count 100/100         10 dBm           ID dBm         III           -26.33 dB         2.440119320 GH           ID dBm         IIII           -20 dBm         IIII           -30 dBm         IIII	CF 2.402 GHz		100	01 pts	Span	2.076 MHz
Att     30 dB     SWT     632.1 µs     VBW 10 kHz     Mode Auto FFT       SGL Count 100/100     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     <					Int i	
10 dBm     M1[1]     -26.33 dB       0 dBm     2.440119320 GF       -10 dBm	SGL Count 100/10	30 dB <b>SWT</b> 63:				
10 dBm	●1Pk Max			M1[1]	2 440	-26.33 dBm
-10 dBm						119320 012
-20 dBm	10 dBm					
-30 dBm						
-40 dB00-0	0 dBm					
	0 dBm		and a state and a state	M1		
	0 dBm	And the second sec	proventing to Manager	MI	Mart and	www.winter
	0 dBm	And the second sec	proventing to Manager	MI	man and a start of the start of	han and the manifest
-70 dBm	0 dBm	And the second sec	proventing to Manager	M1		hand have been a start of the s
	0 dBm	And the second sec	provensional and a second and a	M1		
CF 2.44 GHZ 10001 pts Span 2.079 MH.	0 dBm	And the second sec				
	0 dBm	And the second sec			Spar	2.079 MHz



Certif	icate #4298.01

Spectrum			
Ref Level 20.00 dBm Offset 2.42 dB	B 👄 RBWI 3 kHz		(
	s 🖶 VBW 10 kHz 🛛 Mode Aut	O FFT	
SGL Count 100/100 1Pk Max			
	M1[1	1]	-27.20 dBm
		2	.480121570 GHz
LO dBm			
D dBm			
J dBm			
10 dBm			
-20 dBm			
	M1		
-30 dBm	mary property with an armine and	Martin and a start and a st	
30 dBm		and the second	many many war a
40 dBm			
50 dBm			
60 dBm			
70 dBm			
CF 2.48 GHz	10001 pts	S	pan 2.013 MHz

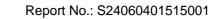


# 8.1.11 Band Edge

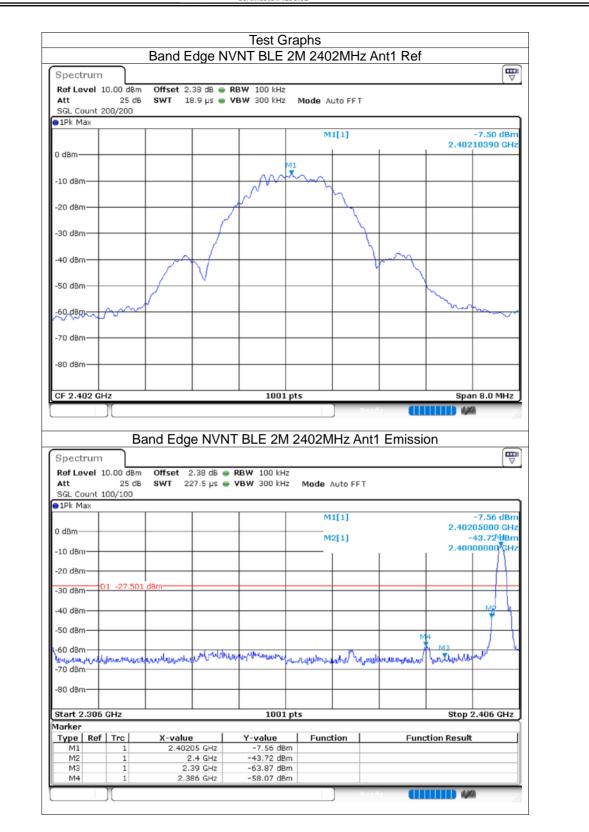
Co	ondition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
	NVNT	BLE 2M	2402	Ant1	-50.56	-20	Pass
	NVNT	BLE 2M	2480	Ant1	-42.86	-20	Pass

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Spectrum		25							
Ref Level 20. Att	35 dB			BW 100 kHz BW 300 kHz	Mode A	uto FFT			
SGL Count 20	1/200								
	1				M	1[1]			-9.28 dBm
						-1-1		2.480	010390 GHz
10 dBm									
0 dBm									
-10 dBm					M1				
					** L	5			
-20 dBm			1			5			
-30 dBm			ŕ						
-40 dBm		~~~~	h/			1	m		
-50 dBm		- A.	~				<u> </u>	500	
m	$\sim$							-vm	m
-60 dBm									
-70 dBm									
05.0.40.011-				1001	pts			Spa	an 8.0 MHz
CF 2.48 GHz	Ba	nd Edg	e NVNT	BLE 2M	2480M	] Pood 1Hz Ant1	Emissio	on	
Spectrum Ref Level 20. Att	00 dBm 35 dB	Offset 2	2.42 dB 👄 🖡	BLE 2M	2		Emissio	on	0
Spectrum Ref Level 20	00 dBm 35 dB	Offset 2	2.42 dB 👄 🖡	<b>RBW</b> 100 kHz	2		Emissio	on .	0
Spectrum Ref Level 20. Att SGL Count 100	00 dBm 35 dB	Offset 2	2.42 dB 👄 🖡	<b>RBW</b> 100 kHz	2 2 Mode /		Emissio		9.26 dBm
Spectrum Ref Level 20. Att SGL Count 100	00 dBm 35 dB	Offset 2	2.42 dB 👄 🖡	<b>RBW</b> 100 kHz	2 2 Mode / M	Auto FFT 1[1]	Emissio	2.480	-9.26 dBm 015000 GHz
Spectrum Ref Level 20. Att SGL Count 100 ● 1Pk Max	00 dBm 35 dB	Offset 2	2.42 dB 👄 🖡	<b>RBW</b> 100 kHz	2 2 Mode / M	Auto FFT	Emissio	2.480	9.26 dBm
Spectrum Ref Level 20. Att SGL Count 100 • 1Pk Max 10 dBm 0 dBm M1	00 dBm 35 dB	Offset 2	2.42 dB 👄 🖡	<b>RBW</b> 100 kHz	2 2 Mode / M	Auto FFT 1[1]	Emissio	2.480	-9.26 dBm 115000 GHz -54.98 dBm
Spectrum Ref Level 20. Att SGL Count 100 • 1Pk Max 10 dBm 0 dBm	00 dBm 35 dB	Offset 2	2.42 dB 👄 🖡	<b>RBW</b> 100 kHz	2 2 Mode / M	Auto FFT 1[1]	Emissio	2.480	-9.26 dBm 115000 GHz -54.98 dBm
Spectrum Ref Level 20. Att SGL Count 100 • 1Pk Max 10 dBm 0 dBm M1	00 dBm 35 dB	Offset 2	2.42 dB 👄 🖡	<b>RBW</b> 100 kHz	2 2 Mode / M	Auto FFT 1[1]	Emissio	2.480	-9.26 dBm 115000 GHz -54.98 dBm
Spectrum Ref Level 20. Att SGL Count 100 9 1Pk Max 10 dBm 0 dBm 10 dBm -20 dBm -20 dBm	00 dBm 35 dB	Offset 2 SWT 2	2.42 dB 👄 🖡	<b>RBW</b> 100 kHz	2 2 Mode / M	Auto FFT 1[1]	Emissio	2.480	-9.26 dBm 115000 GHz -54.98 dBm
Spectrum Ref Level 20. Att SGL Count 100 ● 1Pk Max 10 dBm 0 dBm 0 dBm -10 dBm -20 dBm -30 dBm D1	00 dBm 35 dB 0/100	Offset 2 SWT 2	2.42 dB 👄 🖡	<b>RBW</b> 100 kHz	2 2 Mode / M	Auto FFT 1[1]	Emissio	2.480	-9.26 dBm 115000 GHz -54.98 dBm
Spectrum Ref Level 20. Att SGL Count 100 © 1Pk Max 10 dBm 0 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dSm	00 dBm 35 dB 0/100	Offset 2 SWT 2	2.42 dB 🕳 🛙 27.5 µs 🖷 \	28W 100 kHz 78W 300 kHz	2 2 Mode / M	Auto FFT 1[1]	Emissio	2.48(	-9.26 dBm 015000 GHz -54.98 dBm 350000 GHz
Spectrum Ref Level 20. Att SGL Count 100 • 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -50 dBm	00 dBm 35 dB 0/100	Offset 2 SWT 2	2.42 dB 🕳 🛙 27.5 µs 🖷 \	<b>RBW</b> 100 kHz	2 Mode / M 	Auto FFT 1[1] 2[1]	Emissio	2.48(	-9.26 dBm 115000 GHz -54.98 dBm
Spectrum Ref Level 20. Att SGL Count 100 • 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -30 dBm -50 dBm	00 dBm 35 dB 0/100	Offset ( SWT 2)	2.42 dB 🕳 🛙 27.5 µs 🖷 \	28W 100 kHz 78W 300 kHz	2 Mode / M 	Auto FFT 1[1] 2[1]		2.48(	-9.26 dBm 015000 GHz -54.98 dBm 350000 GHz
Spectrum Ref Level 20. Att SGL Count 100 • 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -50 dBm	00 dBm 35 dB 0/100	Offset ( SWT 2)	2.42 dB 🕳 🛙 27.5 µs 🖷 \	28W 100 kHz 78W 300 kHz	2 Mode / M 	Auto FFT 1[1] 2[1]		2.48(	-9.26 dBm 015000 GHz -54.98 dBm 350000 GHz
Spectrum Ref Level 20, Att SGL Count 100 9 1Pk Max 10 dBm 0 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -50 dBm -50 dBm	00 dBm 35 dB )/100 -29.279 ( 	Offset ( SWT 2)	2.42 dB 🕳 🛙 27.5 µs 🖷 \	28W 100 kHz 78W 300 kHz	י Mode / 	Auto FFT 1[1] 2[1]		2.48( 2.48)	-9.26 dBm 015000 GHz -54.98 dBm 350000 GHz
Spectrum Ref Level 20. Att SGL Count 100 • 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -50 dBm -50 dBm -70 dBm -70 dBm Start 2.476 G Marker	00 dBm 35 dB )/100 -29.279 0 N N N N N N N N N N N N N N N N N N N	Offset ( SWT 2)	2.42 dB • Γ 27.5 μs • \	2BW 100 kHz /BW 300 kHz	Mode /	Auto FFT	مرياليوراللكالوب	2.48( 2.48)	-9.26 dBm 115000 GHz -54.98 dBm 350000 GHz
Spectrum Ref Level 20. Att SGL Count 100 9 1Pk Max 10 dBm 0 dBm 0 dBm -20 dBm -20 dBm -30 dBm -50 dBm -50 dBm -70 dBm	00 dBm 35 dB 0/100 -29.279 ( ////////////////////////////////////	Offset ( SWT 2) dBm 4 <u>M2</u> «խիճելեցներես» X-value	2.42 dB • Γ 27.5 μs • \	2BW 100 kHz /BW 300 kHz	2 Mode / M M س م/ماریلیناس pts	Auto FFT	مرياليوراللكالوب	2.48( 2.48)	-9.26 dBm 115000 GHz -54.98 dBm 350000 GHz
Spectrum Ref Level 20. Att SGL Count 100 • 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -50 dBm -50 dBm -70 dBm -70 dBm Start 2.476 G Marker	00 dBm 35 dB )/100 -29.279 0 N N N N N N N N N N N N N N N N N N N	Offset : ՏWT 2: 	2.42 dB • Γ 27.5 μs • \	2BW 100 kHz /BW 300 kHz	2 Mode / M 	Auto FFT	مرياليوراللكالوب	2.48( 2.48)	-9.26 dBm 115000 GHz -54.98 dBm 350000 GHz
Spectrum Ref Level 20. Att SGL Count 100 9 1Pk Max 10 dBm 0 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -50 dBm -50 dBm -70 dB	00 dBm 35 dB 0/100 -29.279 M Hz Hz Trc 1 1	Offset ( SWT 2)	2.42 dB 27.5 μs 27.5 μs 27.5 μs 27.5 μs 27.5 μs 27.5 μs	RBW 100 kHz           /BW 300	2 Mode / M 	Auto FFT	مرياليوراللكالوب	2.48( 2.48)	-9.26 dBm 115000 GHz -54.98 dBm 350000 GHz
Spectrum Ref Level 20. Att SGL Count 100 • 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -50 dBm -50 dBm -70	00 dBm 35 dB )/100 -29.279 ( -29.279 ( -29.279) ( -29.279 ( -29.279 ( -29.279) ( -2	Offset ( SWT 2)	2.42 dB 27.5 μs	RBW 100 kHz /BW 300 kHz /BW 300 kHz ////////////////////////////////////	2 Mode / M 	Auto FFT	مرياليوراللكالوب	2.48( 2.48)	-9.26 dBm 115000 GHz -54.98 dBm 350000 GHz



# 8.1.12 Conducted RF Spurious Emission

ilac-M

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 2M	2402	Ant1	-40.56	-20	Pass
NVNT	BLE 2M	2440	Ant1	-42.46	-20	Pass
NVNT	BLE 2M	2480	Ant1	-38.51	-20	Pass

ACCREDITED Certificate #4298.01



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The state of the s	ACCREDITED
	Certificate #4298.01

			Test Gra			
		Tx. Spurious I	<u>NVNT BLE</u> 2	<u>M 2402M</u> Hz	Ant1 Ref	
Spectru	m					
	el 10.00 dBr	m Offset 2.38 dB (	RBW 100 kHz			(*)
Att	30 d		VBW 300 kHz	Mode Auto FFT		
SGL Coun	t 300/300					
●1Pk Max				541513		7.04 dBm
				M1[1]		-7.24 dBm 2.40175720 GHz
0 dBm						
			M1			
-10 dBm—					$\neg -$	
-20 dBm—						
00.10						
-30 dBm—						
-40 dBm—						
-50 dBm—						
SS GDII-						
-60 dBm—						
-70 dBm—		<b>├</b> ──				
-80 dBm—		+				
	1	1		1	I I	
		. Spurious NV	1001 pt	Re	nt1 Emissio	$\bigcirc$
Spectru Ref Leve	Tx m	m Offset 2.38 dB (	NT BLE 2M	2402MHz Ar		
Spectru Ref Leve	Tx m al 10.00 dBr 30 d	m Offset 2.38 dB (	NT BLE 2M	Re		n
Spectru Ref Levo Att SGL Coun	Tx m al 10.00 dBr 30 d	m Offset 2.38 dB (	NT BLE 2M	2402MHz Ar		n
Spectru Ref Levo Att SGL Coun	Tx m al 10.00 dBr 30 d	m Offset 2.38 dB (	NT BLE 2M	2402MHz Ar		n
Spectru Ref Levo Att SGL Coun 1Pk Max	Tx m al 10.00 dBr 30 d t 10/10	m Offset 2.38 dB (	NT BLE 2M	2402MHz Ar Mode Auto Swee 		∩ -7.24 dBm 2.3970 GHz
Spectru Ref Leve Att SGL Coun 1Pk Max 0 dBmM	Tx m al 10.00 dBr 30 d t 10/10	m Offset 2.38 dB (	NT BLE 2M	2402MHz Ar		n
Spectrui Ref Levo Att SGL Coun 1Pk Max 0 dBm -10 dBm	Tx m al 10.00 dBr 30 d t 10/10	m Offset 2.38 dB (	NT BLE 2M	2402MHz Ar Mode Auto Swee 		-7.24 dBm 2.3970 GHz -47.80 dBm
Spectrui Ref Levo Att SGL Coun JIPk Max 0 dBm -10 dBm	Tx m al 10.00 dBr 30 d t 10/10	m Offset 2.38 dB ( B SWT 265 ms (	NT BLE 2M	2402MHz Ar Mode Auto Swee 		-7.24 dBm 2.3970 GHz -47.80 dBm
Spectrui Ref Levi Att SGL Coun 1Pk Max 0 dBmM -10 dBm -20 dBm	Tx m al 10.00 dBr 30 d t 10/10	m Offset 2.38 dB ( B SWT 265 ms (	NT BLE 2M	2402MHz Ar Mode Auto Swee 		-7.24 dBm 2.3970 GHz -47.80 dBm
Spectrui Ref Levo Att SGL Coun 1Pk Max 0 dBm M -10 dBm  -20 dBm 	Tx m al 10.00 dBr 30 d t 10/10	m Offset 2.38 dB ( B SWT 265 ms (	NT BLE 2M	2402MHz Ar Mode Auto Swee 		-7.24 dBm 2.3970 GHz -47.80 dBm
Spectru Ref Levo Att SGL Coun 1Pk Max 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	Tx m al 10.00 dBr 30 d t 10/10	m Offset 2.38 dB B B SWT 265 ms C	NT BLE 2M	2402MHz Ar Mode Auto Swee 		-7.24 dBm 2.3970 GHz -47.80 dBm
Spectrum Ref Levo Att SGL Coun 1Pk Max 0 dBm- -10 dBm- -20 dBm- -30 dBm- -40 dBm-	Tx m el 10.00 dBr 30 d t 10/10	m Offset 2.38 dB ( B SWT 265 ms (	NT BLE 2M	2402MHz Ar Mode Auto Swee 	ep	-7.24 dBm 2.3970 GHz -47.80 dBm
Spectru Ref Levo Att SGL Coun 1Pk Max 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	Tx m al 10.00 dBr 30 d t 10/10	m Offset 2.38 dB ( B SWT 265 ms (	NT BLE 2M	Mode Auto Sweet MI[1] M2[1]	ep	-7.24 dBm 2.3970 GHz -47.80 dBm 7.2034 GHz
Spectrum Ref Leve Att SGL Coun 1Pk Max 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm	Tx m el 10.00 dBr 30 d t 10/10	m Offset 2.38 dB ( B SWT 265 ms (	NT BLE 2M	Mode Auto Sweet MI[1] M2[1]	ep	-7.24 dBm 2.3970 GHz -47.80 dBm 7.2034 GHz
Spectrum Ref Levo Att SGL Coun 1Pk Max 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -50 dBm -70 dBm	Tx m el 10.00 dBr 30 d t 10/10	m Offset 2.38 dB ( B SWT 265 ms (	NT BLE 2M	Mode Auto Sweet MI[1] M2[1]	ep	-7.24 dBm 2.3970 GHz -47.80 dBm 7.2034 GHz
Spectrum Ref Levo Att SGL Coun 1Pk Max 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -50 dBm -70 dBm	Tx m el 10.00 dBr 30 d t 10/10	m Offset 2.38 dB ( B SWT 265 ms (	NT BLE 2M	Mode Auto Sweet MI[1] M2[1]	ep	-7.24 dBm 2.3970 GHz -47.80 dBm 7.2034 GHz
Spectrui Ref Leve Att SGL Coun 1Pk Max 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -50 dBm -50 dBm -70 dBm -70 dBm -70 dBm	Tx 30 d 10.00 dBr 30 d 10/10	m Offset 2.38 dB ( B SWT 265 ms (	NT BLE 2M	2402MHz Ar Mode Auto Swee M1[1] 	ep	-7.24 dBm 2.3970 GHz -47.80 dBm 7.2034 GHz
Spectrui Ref Leve Att SGL Coun 1Pk Max 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -50 dBm -50 dBm -70 dBm -70 dBm -80 dBm	Tx 30 d 10.00 dBr 30 d 10/10	m Offset 2.38 dB ( B SWT 265 ms (	NT BLE 2M	2402MHz Ar Mode Auto Swee M1[1] 	ep	-7.24 dBm 2.3970 GHz -47.80 dBm 7.2034 GHz
Spectrui Ref Leve SGL Coun 1Pk Max 0 d8m -10 d8m -20 d8m -30 d8m -30 d8m -50 d8m -50 d8m -50 d8m -70 d8m -70 d8m -70 d8m -70 d8m	Tx 30 d 10.00 dBr 30 d 10/10	m Offset 2.38 dB ( B SWT 265 ms (	NT BLE 2M	2402MHz Ar Mode Auto Swee M1[1] 		-7.24 dBm 2.3970 GHz -47.80 dBm 7.2034 GHz
Att SGL Coun SGL Coun SGL Coun SGL Coun Max SGL Coun Marker Mathematical Start 30.6 Marker Marker SGL Coun Start SGL SGL Coun SGL C	Tx 30 d 10.00 dBr 30 d 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/	m Offset 2.39 dB ( B SWT 265 ms ( ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) )	NT BLE 2M 2	2402MHz Ar 2402MHz Ar Mode Auto Swee M1[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1]		n -7.24 dBm 2.3970 GHz -47.80 dBm 7.2034 GHz -47.80 dBm 7.2034 GHz -47.80 dBm 5top 26.5 GHz
Spectrui Ref Leve SGL Coun 1Pk Max 1Pk Max 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -30 dBm -40 dBm -50 dBm -50 dBm -50 dBm -50 dBm -50 dBm -50 dBm -70 dBm -80 dBm -8	Tx 30 d 10.00 dBr 30 d 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/	m Offset 2.38 dB (B SWT 265 ms )	NT BLE 2M 2 RBW 100 kH2 VBW 300 kH2 VBW 300 kH2 NT BLE 2M 2 NT BL	2402MHz Ar 2402MHz Ar Mode Auto Swee M1[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1]		n -7.24 dBm 2.3970 GHz -47.80 dBm 7.2034 GHz -47.80 dBm 7.2034 GHz -47.80 dBm 5top 26.5 GHz
Spectrum Ref Levo Att SGL Count IPk Max 0 dBm -10 dBm -20 dBm -20 dBm -40 dBm -50 dBm -50 dBm -70 d	Tx 30 d 10.00 dBr 30 d 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/	m Offset 2.39 dB ( B SWT 265 ms ( ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) )	NT BLE 2M 2	2402MHz Ar 2402MHz Ar Mode Auto Swee M1[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1]		n -7.24 dBm 2.3970 GHz -47.80 dBm 7.2034 GHz -47.80 dBm 7.2034 GHz -47.80 dBm 5top 26.5 GHz
Spectrui Ref Leve Att SGL Coun 1Pk Max 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm -50 dBm -70 dBm -80 dBm -70 dBm -70 dBm -80 dBm -70 dBm -80 dBm -70 dBm -80 dBm -70 dBm -80 dBm -70 dBm -70 dBm -80 dBm -70 dBm -70 dBm -70 dBm -80 dBm -70 dBm -70 dBm -80 dBm -70 dBm -80 dBm -70 dBm -80 dBm -70 dBm -70 dBm -70 dBm -70 dBm -80 dBm -70 dB	Tx m al 10.00 dBr 30 d t 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 10/10 1	m Offset 2.38 dB ( B SWT 265 ms ( ) ) ) dBm ) ) dBm ) ) dBm ) ) dBm ) ) ) ( ) ) ( ) ) ( ) ) ( ) ) ( ) ) ) ( ) ) ) ( ) ) ) ( ) ) ) ( ) ) ) ) ( ) ) ) ) ( ) ) ) ( ) ) ) ( ) ) ) ) ( ) ) ) ( ) ) ) ( ) ) ) ( ) ) ) ( ) ) ) ( ) ) ) ( ) ) ) ( ) ) ) ( ) ) ) ( ) ) ) ( ) ) ) ( ) ) ) ( ) ) ) ( ) ) ) ( ) ) ) ( ) ) ) ( ) ) ) ) ( ) ) ) ) ( ) ) ) ) ( ) ) ) ) ) ( ) ) ) ) ) ) ( ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) )	NT BLE 2M 2 RBW 100 kHz VBW 300 kHz VBW 300 kHz NH 100 kHz 100 kH	2402MHz Ar 2402MHz Ar Mode Auto Swee M1[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1]		n -7.24 dBm 2.3970 GHz -47.80 dBm 7.2034 GHz -47.80 dBm 7.2034 GHz -47.80 dBm 5top 26.5 GHz



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Spectrum Ref Level	10.00 db	m Officiat 0.00 -0	👄 RBW 100 kHz				
Att	10.00 dBr 30 d		RBW 100 kHz	Mode Auto FFT			
SGL Count 3	00/300						
●1Pk Max				M1[1]			-7.93 dBm
						2.43	976320 GHz
0 dBm			M1				
-10 dBm				~			
-10 ubiii				Ţ,			
-20 dBm							
	~	1					
-30 dBm	/						
-40 dBm							
-50 dBm							
-60 dBm		<u> </u>					<b></b>
-70 dBm							+1
00.40							
-80 dBm							
1				1			
05.0.11							
CF 2.44 GHz	][	x. Spurious N	1001 pt	R	nt1 Emiss		an 3.0 MHz
Spectrum Ref Level Att	Tx Tx 10.00 dBr 30 d	m Offset 2.39 dB		2440MHz A			
Spectrum Ref Level Att SGL Count 1	Tx Tx 10.00 dBr 30 d	m Offset 2.39 dB	• RBW 100 kHz	2440MHz A			
Spectrum Ref Level Att SGL Count 1	Tx Tx 10.00 dBr 30 d	m Offset 2.39 dB	• RBW 100 kHz	2440MHz A			-9.10 dBm
Spectrum Ref Level Att SGL Count 1 1Pk Max 0 dBm	Tx Tx 10.00 dBr 30 d	m Offset 2.39 dB	• RBW 100 kHz	2440MHz A Mode Auto Swe			-9.10 dBm 2.4500 GHz
Spectrum Ref Level Att SGL Count 1 1Pk Max 0 dBm	Tx Tx 10.00 dBr 30 d	m Offset 2.39 dB	• RBW 100 kHz	2440MHz A Mode Auto Swe		ion	-9.10 dBm
Spectrum Ref Level Att SGL Count 1 PIPk Max 0 dBm	Tx Tx 10.00 dBr 30 d	m Offset 2.39 dB	• RBW 100 kHz	2440MHz A Mode Auto Swe		ion	-9.10 dBm 2.4500 GHz -50.39 dBm
Spectrum Ref Level Att SGL Count 1 1Pk Max 0 dBm -10 dBm -20 dBm	Tx 10.00 dB 30 d 0/10	m Offset 2.39 dB B SWT 265 ms	• RBW 100 kHz	2440MHz A Mode Auto Swe		ion	-9.10 dBm 2.4500 GHz -50.39 dBm
Spectrum Ref Level Att SGL Count 1 1Pk Max 0 dBm -10 dBm -20 dBm	Tx Tx 10.00 dBr 30 d	m Offset 2.39 dB B SWT 265 ms	• RBW 100 kHz	2440MHz A Mode Auto Swe		ion	-9.10 dBm 2.4500 GHz -50.39 dBm
Spectrum Ref Level Att SGL Count 1 PIPk Max 0 dBm -10 dBm -20 dBm -30 dBm	Tx 10.00 dB 30 d 0/10	m Offset 2.39 dB B SWT 265 ms	• RBW 100 kHz	2440MHz A Mode Auto Swe M1[1] M2[1]		ion	-9.10 dBm 2.4500 GHz -50.39 dBm
Spectrum Ref Level Att SGL Count 1 PIPk Max 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	Tx 10.00 dB/ 30 d 0/10 1 -27.93	m Offset 2.39 dB B SWT 265 ms	VNT BLE 2M 2	2440MHz A Mode Auto Swe M1[1] M2[1] M2[1]	ер		-9.10 dBm 2.4500 GHz -50.39 dBm 14.9061 GHz
Spectrum Ref Level Att SGL Count 1 PIPK Max 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm	Tx 10.00 dB/ 30 d 0/10 1 -27.93	m Offset 2.39 dB B SWT 265 ms	VNT BLE 2M 2	2440MHz A Mode Auto Swe M1[1] M2[1] M2[1]	ер		-9.10 dBm 2.4500 GHz -50.39 dBm 14.9061 GHz
Spectrum Ref Level Att SGL Count 1 IPk Max 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm	Tx 10.00 dB/ 30 d 0/10 1 -27.93	m Offset 2.39 dB B SWT 265 ms	VNT BLE 2M 2	2440MHz A Mode Auto Swe M1[1] M2[1] M2[1]	ер		-9.10 dBm 2.4500 GHz -50.39 dBm 14.9061 GHz
Spectrum Ref Level Att SGL Count 1 IPk Max 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm	Tx 10.00 dB/ 30 d 0/10 1 -27.93	m Offset 2.39 dB B SWT 265 ms	VNT BLE 2M 2	2440MHz A Mode Auto Swe M1[1] M2[1] M2[1]	ер		-9.10 dBm 2.4500 GHz -50.39 dBm 14.9061 GHz
Spectrum Ref Level Att SGL Count 1 IPk Max 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm	Tx 10.00 dB/ 30 d 0/10 1 -27.93	m Offset 2.39 dB B SWT 265 ms	VNT BLE 2M 2	2440MHz A Mode Auto Swe M1[1] M2[1] M2[1]	ер		-9.10 dBm 2.4500 GHz -50.39 dBm 14.9061 GHz
Spectrum Ref Level Att SGL Count 1 PIPk Max 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -70 dBm -70 dBm -80 dBm	Tx 10.00 dB/ 30 d 0/10 1 -27.93: 	m Offset 2.39 dB B SWT 265 ms	VNT BLE 2M 2	2440MHz A Mode Auto Swe M1[1] M2[1] M2 July Arthory Marketone M2	ер	ion	-9.10 dBm 2.4500 GHz -50.39 dBm 14.9061 GHz
Spectrum Ref Level Att SGL Count 1 IPk Max 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -70 dBm -70 dBm -80 dBm -70 dBm -80 dBm -70 dBm -80 dBm	Tx 10.00 dB/ 30 d 0/10 1 -27.93: 	m Offset 2.39 dB B SWT 265 ms	VNT BLE 2M 2	2440MHz A Mode Auto Swe M1[1] M2[1] M2 July Arthory Marketone M2	ер	ion	-9.10 dBm 2.4500 GHz -50.39 dBm 14.9061 GHz
Spectrum Ref Level Att SGL Count 1 The Max O dBm O dBm O dBm O CO	Tx 10.00 dBi 30 d 0/10 1 -27.93: Maxwelling HHz Trc	m Offset 2.39 dB B SWT 265 ms	VNT BLE 2M : • RBW 100 kHz • VBW 300 kHz · VBW 300 kHz · · · · · · · · · · · · · · · · · · ·	2440MHz A Mode Auto Swe M1[1] M2[1] M2 July Arthory Marketone M2		ion	-9.10 dBm 2.4500 GHz -50.39 dBm 14.9061 GHz
Spectrum Ref Level Att SGL Count 1 SGL Count 1 SGL Count 1 Provember SGL Count 1 Provember Maxer Stort 30.0 M Marker Type Ref M1	Tx 10.00 dB/ 30 d 0/10 1 -27.93: 1 -27.93: Hz IHz ITrc   1	m Offset 2.39 dB B SWT 265 ms 3 dBm M4 M4 M4 X-value 2.45 GHz	VNT BLE 2M 2	2440MHz A Mode Auto Swe M1[1] M2[1] M2 July Market Constrained S		ion	-9.10 dBm 2.4500 GHz -50.39 dBm 14.9061 GHz
Spectrum Ref Level Att SGL Count 1 The Max O dBm O dBm O dBm O CO	Tx 10.00 dBi 30 d 0/10 1 -27.93: Maxwelling HHz Trc	m Offset 2.39 dB B SWT 265 ms	VNT BLE 2M 2	2440MHz A Mode Auto Swe M1[1] M2[1] M2 July Market Constrained S		ion	-9.10 dBm 2.4500 GHz -50.39 dBm 14.9061 GHz
Spectrum Ref Level SGL Count 1 SGL Count 1 IPk Max O dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -40 dBm -50 dBm -50 dBm -50 dBm -70 dBm -80 d	Tx 10.00 dB/ 30 d 0/10 1 -27.93 1 -27.93 Hz Hz Trc 1 1	m Offset 2.39 dB B SWT 265 ms 3 dBm M4 M4 X-value 2.45 GHz 14.9061 GHz	VNT BLE 2M : • RBW 100 kHz • VBW 300 kHz • VBW 100 kHz • VBW 300 kHz • VBW 100 kHz • VBW 10	2440MHz A Mode Auto Swe M1[1] M2[1] M2 July Market Constrained S		ion	-9.10 dBm 2.4500 GHz -50.39 dBm 14.9061 GHz



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<ul> <li>Att</li> <li>SGL Count 300/3</li> <li>1Pk Max</li> </ul>			<b>VBW</b> 300 kHz					
0 dBm				M1[:	1]		2.480	-9.16 dBm 27870 GHz
				MI				
-10 dBm		$\sim$			~	~		
-20 dBm							~	
-30 dBm	-							
-40 dBm								<u>_</u>
-50 dBm								
-60 dBm								
-70 dBm								
-80 dBm								
CF 2.48 GHz			1001	pts				n 3.0 MHz
Spectrum Ref Level 10.00		2.42 dB 👄	RBW 100 kHz	2			on	
Ref Level 10.00	) dBm Offset 30 dB SWT	2.42 dB 👄		2				
Ref Level 10.00 Att SGL Count 10/10	) dBm Offset 30 dB SWT	2.42 dB 👄	RBW 100 kHz	z Mode Aut M1[:	to Sweep		on	10.06 dBm 2.4760 GHz
Ref Level 10.00 Att SGL Count 10/10 PIPk Max	) dBm Offset 30 dB SWT	2.42 dB 👄	RBW 100 kHz	z Mode Aut	to Sweep		on	10.06 dBm
Ref Level 10.00 Att SGL Count 10/10 P1Pk Max 0 dBm M:	) dBm Offset 30 dB SWT	2.42 dB 👄	RBW 100 kHz	z Mode Aut M1[:	to Sweep		on	10.06 dBm 2.4760 GHz 47.67 dBm
Ref Level 10.00           Att           SGL Count 10/10           IPk Max           0 dBm           -10 dBm           -20 dBm           -30 dBm	0 dBm Offset 30 dB SWT	2.42 dB 👄	RBW 100 kHz	z Mode Aut M1[:	to Sweep		on	10.06 dBm 2.4760 GHz 47.67 dBm
Ref Level 10.00           Att           SGL Count 10/10           ● 1Pk Max           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dβm	9.163 dBm	2.42 dB	RBW 100 kHz VBW 300 kHz	2 Mode Aut M1[: 	to Sweep	Emissi	on 	10.06 dBm 2.4760 GHz 47.67 dBm 1.6976 GHz
Ref Level 10.00           Att           SGL Count 10/10           IPk Max           0 dBm           -10 dBm           -20 dBm           -30 dBm	9.163 dBm	2.42 dB	RBW 100 kHz VBW 300 kHz	2 Mode Aut M1[: 	to Sweep	Emissi	on 	10.06 dBm 2.4760 GHz 47.67 dBm 1.6976 GHz
Ref Level 10.00           Att           SGL Count 10/10           ● 1Pk Max           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dβm	9.163 dBm	2.42 dB	RBW 100 kHz VBW 300 kHz	2 Mode Aut M1[: 	to Sweep	Emissi	on 	10.06 dBm 2.4760 GHz 47.67 dBm 1.6976 GHz
Ref Level 10.00           Att           SGL Count 10/10           IPk Max           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -50 dBm	9.163 dBm	2.42 dB	RBW 100 kHz VBW 300 kHz	2 Mode Aut M1[: 	to Sweep	Emissi	on 	10.06 dBm 2.4760 GHz 47.67 dBm 1.6976 GHz
Ref Level 10.00           Att           SGL Count 10/10           IPk Max           0 dBm           -10 dBm           -20 dBm           -20 dBm           -30 dBm           -50 dBm           -40 dBm           -50 dBm           -80 dBm           -80 dBm           -80 dBm	9.163 dBm	2.42 dB	RBW 100 kHz VBW 300 kHz	2 Mode Aut M1[: M2[: 	to Sweep	Emissi	On	10.06 dBm 2.4760 GHz 47.67 dBm 1.6976 GHz
Ref Level 10.00           Att           SGL Count 10/10           ● 1Pk Max           0 dBm           -10 dBm           -20 dBm           -20 dBm           -30 dBm           -50 dBm           -50 dBm           -50 dBm           -70 dBm           -80 dBm           -80 dBm           Start 30.0 MHz           Marker           Type         Ref	9.163 dBm	2.42 dB  265 ms	RBW 100 kHz	2 Mode Aut M1[: 	to Sweep	Emissi	On	10.06 dBm 2.4760 GHz 47.67 dBm 6976 GHz
Ref Level 10.00           Att           SGL Count 10/10           IPk Max           0 dBm           -10 dBm           -20 dBm           -20 dBm           -30 dBm           -30 dBm           -30 dBm           -50 dBm           -70 dBm           -80 dBm	9.163 dBm M3 M4 M3 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4	2.42 dB 265 ms 265 ms 26	RBW 100 kHz VBW 300 kHz VBW 300 kHz VBW 300 kHz 100 kHz VBW 300 kHz 100 kHz V-Value -10.06 dBr -47.67 dBr -54.72 dBr	2 2 Mode Aut M1[: M2[: M2[: 0 0 0 0 0 0 0 0 0 0 0 0 0	to Sweep	Emissi	ON 	10.06 dBm 2.4760 GHz 47.67 dBm 6976 GHz
Ref Level 10.00           Att           SGL Count 10/10           IPk Max           0 dBm           -10 dBm           -20 dBm           -20 dBm           -30 dBm           -50 dBm           -50 dBm           -50 dBm           -50 dBm           -70 dBm           -80 dBm           Start 30.0 MHz           Marker           Type         Ref           M1           M3           M4	9.163 dBm M3 M4 M3 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4	2.42 dB  265 ms 265 ms	RBW 100 kHz VBW 300 kHz	2 2 Mode Aut M1[: M2[: M2[: 1 m2 m2 m2 m2 m2 m2 m2 m2 m2 m2	to Sweep	Emissi 	ON 	10.06 dBm 2.4760 GHz 47.67 dBm 1.6976 GHz