

# RADIO TEST REPORT FCC ID: 2A6FX-PLUTV63BTA

Product: PLUTV63BTA Trade Mark: PYLE Model No.: PLUTV63BTA PLUTV65BTR, PLUTV60CH, PLUTV62CHK, VIBE452N.5, VIBE432N.5, VIBE442N.5, PDWR55BTRFW, SBA8A, SBA10A, PLBX10A, PLMRSBA10, VIBE2102N, AQTB8, PLMRSBA8 Report No.: S22111002001001 Issue Date: Dec 01. 2022

# **Prepared for**

Sound Around INC.

1600, 63rd Street, 1st Floor, Brooklyn, New York, United States

# Prepared by

Shenzhen NTEK Testing Technology Co., Ltd. 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street Bao'an District, Shenzhen 518126 P.R. China Tel. 400-800-6106, 0755-2320 0050, 0755-2320 0090 Website: http://www.ntek.org.cn



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# **1 TEST RESULT CERTIFICATION**

Applicant's name:	Sound Around INC.
Address:	1600, 63rd Street, 1st Floor, Brooklyn, New York, United States
Manufacturer's Name:	DECCON INTERNATIONAL LTD.,
Address:	TANG-WEI INDUSTRY DISTRICT, SHIPAI, DONGGUAN, GUANDONG, CHINA, 523337
Product description	
Product name:	PLUTV63BTA
Model and/or type reference:	PLUTV63BTA
Family Model:	PLUTV65BTR, PLUTV60CH, PLUTV62CHK, VIBE452N.5, VIBE432N.5, VIBE442N.5, PDWR55BTRFW, SBA8A, SBA10A, PLBX10A, PLMRSBA10, VIBE2102N, AQTB8, PLMRSBA8
Test Sample Number	S221110020001

Measurement Procedure Used:

# APPLICABLE STANDARDS

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

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.

This report shall not be reproduced except in full, without the written approval of Shenzhen NTEK Testing Technology Co., Ltd., this document may be altered or revised by Shenzhen NTEK Testing Technology Co., Ltd., personnel only, and shall be noted in the revision of the document.

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

Date of Test	: Nov 11. 2022 ~ Dec 01, 2022
Testing Engineer	:(Allen Liu)
Authorized Signatory	:(Alex Li)



FCC Part15 (15.247), Subpart C			
Standard Section	Test Item	Verdict	Remark
15.207	Conducted Emission	PASS	
15.209 (a) 15.205 (a)	Radiated Spurious Emission	PASS	
15.247(a)(1)	Hopping Channel Separation	PASS	
15.247(b)(1)	Peak Output Power	PASS	
15.247(a)(iii)	Number of Hopping Frequency	PASS	
15.247(a)(iii)	Dwell Time	PASS	
15.247(a)(1)	Bandwidth	PASS	
15.247 (d)	Band Edge Emission	PASS	
15.247 (d)	Spurious RF Conducted Emission	PASS	
15.203	Antenna Requirement	PASS	

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).
	: 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



# 4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification		
Equipment	PLUTV63BTA	
Trade Mark	PYLE	
FCC ID	2A6FX-PLUTV63BTA	
Model No.	PLUTV63BTA	
Family Model	PLUTV65BTR, PLUTV60CH, PLUTV62CHK, VIBE452N.5, VIBE432N.5, VIBE442N.5, PDWR55BTRFW, SBA8A, SBA10A, PLBX10A, PLMRSBA10, VIBE2102N, AQTB8, PLMRSBA8	
Model Difference	All models are the same circuit and RF module, except the model name.	
Operating Frequency	2402MHz~2480MHz	
Modulation	GFSK, π/4-DQPSK, 8-DPSK	
Number of Channels	79 Channels	
Antenna Type	PCB Antenna	
Antenna Gain	-2 dBi	
Power supply	DC 12V	
Battery	N/A	
Adapter	N/A	
HW Version	N/A	
SW 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			
Report No.	Version	Description	Issued Date
S22111002001001	Rev.01	Initial issue of report	Dec 01, 2022

ACCREE

Certificate #4298.01

ED



# 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 for GFSK modulation; 2Mbps for  $\pi$ /4-DQPSK modulation; 3Mbps for 8-DPSK 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	2403
39	2441
40	2442
77	2479
78	2480

Note: fc=2402MHz+k×1MHz k=0 to 78

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

For AC Conducted Emission				
Final Test Mode	Final Test Mode Description			
Mode 1 normal link mode				
Note: AO assess line. One douted Exclusion on the today of a second structure of the terms				

Note: AC power line Conducted Emission was tested under maximum output power.

For Radiated Test Cases		
Final Test Mode	Description	
Mode 1	normal link mode	
Mode 2	CH00(2402MHz)	
Mode 3	CH39(2441MHz)	
Mode 4	CH78(2480MHz)	

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

	For Conducted Test Cases		
Final Test Mode	Description		
Mode 2	CH00(2402MHz)		
Mode 3	CH39(2441MHz)		
Mode 4	CH78(2480MHz)		
Mode 5	Hopping mode		

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



# 6 SETUP OF EQUIPMENT UNDER TEST

# 6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM

For Radiated Test Cases



For Conducted Test Cases

Measurement Instrument C-1 EUT
-----------------------------------

Note: 1. The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment 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

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	RF Cable	YES	NO	0.1m

# Notes:

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



# 6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

# Radiation& Conducted Test equipment

Vaulatio		estequipment					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibrati on period
1	Spectrum Analyzer	Aglient	E4407B	MY45108040	2022.04.06	2023.04.05	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2022.04.06	2023.04.05	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2022.04.06	2023.04.05	1 year
4	Test Receiver	R&S	ESPI7	101318	2022.04.06	2023.04.05	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2022.03.30	2023.03.29	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2020.05.11	2023.05.10	3 year
7	Horn Antenna	EM	EM-AH-1018 0	2011071402	2022.03.31	2023.03.30	1 year
8	Broadband Horn Antenna	SCHWARZBE CK	BBHA 9170	803	2022.11.01	2023.10.31	1 year
9	Amplifier	EMC	EMC051835 SE	980246	2022.06.17	2023.06.16	1 year
10	Active Loop Antenna	SCHWARZBE CK	FMZB 1519 B	055	2022.11.01	2023.10.31	1 year
11	Power Meter	DARE	RPR3006W	15I00041SN O84	2022.06.16	2023.06.15	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2020.05.11	2023.05.10	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2020.05.11	2023.05.10	3 year
14	High Test Cable(1G-40G Hz)	N/A	R-03	N/A	2022.06.17	2025.06.16	3 year
15	Filter	TRILTHIC	2400MHz	29	2022.11.01	2023.10.31	1 year
16	temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A

Note:

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

# 7 TEST REQUIREMENTS

# 7.1 CONDUCTED EMISSIONS TEST

# 7.1.1 Applicable Standard

According to FCC Part 15.207(a)

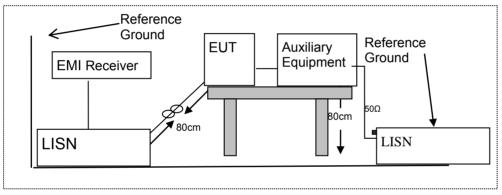
# 7.1.2 Conformance Limit

	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 Test Configuration



# 7.1.4 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.
- 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.
- 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.
- 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.

# 7.1.5 Test Results

Pass



# 7.1.6 Test Results

EUT:	PLUTV63BTA	Model Name :	PLUTV63BTA
Temperature:	<b>22</b> ℃	Relative Humidity:	57%
Pressure:	1010hPa	Phase :	N/A
Test Voltage :	N/A	Test Mode:	N/A

Note: Not Applicable



# 7.2 RADIATED SPURIOUS EMISSION

# 7.2.1 Applicable Standard

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

# 7.2.2 Conformance Limit

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

According to FOC Fait 15.200, Restricted bands			
MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

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(Miriz)	Frequency(MHz) PEAK	AVERAGE
Above 1000	74	54

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

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



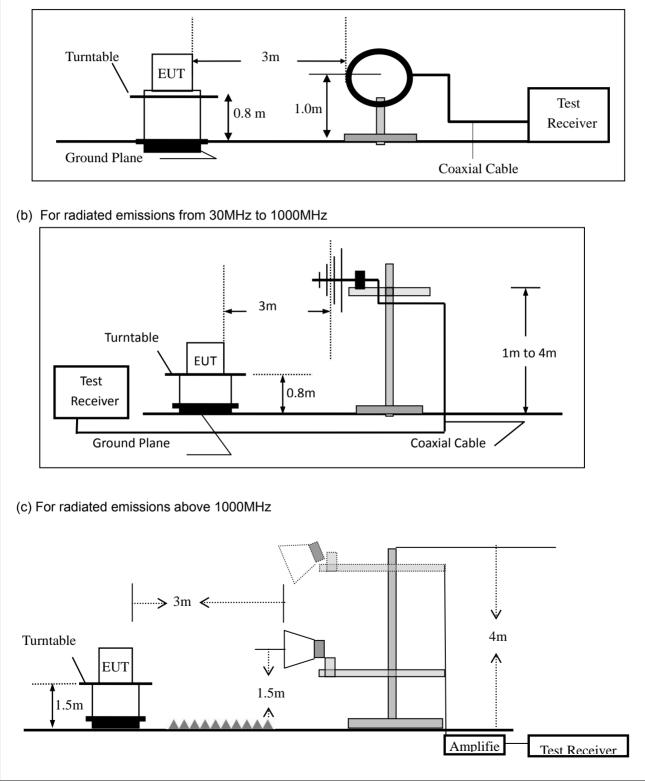
# 7.2.3 Measuring Instruments

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

Certificate #4298.01

# 7.2.4 Test Configuration

# (a) For radiated emissions below 30MHz





# 7.2.5 Test Procedure

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

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

<u> </u>	
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 / 1 MHz 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 to	During the radiated emission test, the Spectrum Analyzer was set with the following configurations:						
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth				
30 to 1000	QP	120 kHz	300 kHz				
About 1000	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 30MHz)

EUT:	PLUTV63BTA	Model No.:	PLUTV63BTA
Temperature:	<b>20</b> ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Allen Liu

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

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



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

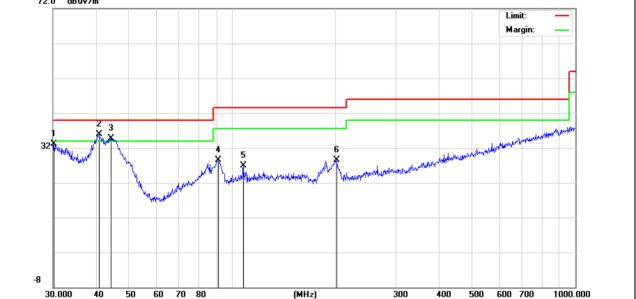
	on modes have been tested,	and the worst result was repor	
EUT:	PLUTV63BTA	Model Name :	PLUTV63BTA
Temperature:	<b>25</b> ℃	Relative Humidity:	55%
Pressure:	1010hPa	Test Mode:	Mode 1
Test Voltage :	DC 12V		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	30.2108	7.22	25.87	33.09	40.00	-6.91	QP
V	40.8444	15.80	20.08	35.88	40.00	-4.12	QP
V	44.2751	16.46	18.17	34.63	40.00	-5.37	QP
V	90.8554	11.58	17.01	28.59	43.50	-14.91	QP
V	107.5100	8.65	18.35	27.00	43.50	-16.50	QP
V	201.3930	12.02	16.54	28.56	43.50	-14.94	QP

# Remark:

Emission Level= Meter Reading+ Factor, Margin= Emission Level - Limit 72.0 dBuV/m







(HV)         (MHz)         (dBuV)         (dB)         (dBuV/m)         (dB)         (dB)           H         30.3170         5.72         25.87         31.59         40.00         -8.41         QP           H         92.4624         7.73         17.17         24.90         43.50         -18.60         QP           H         107.5100         8.25         18.35         26.60         43.50         -17.64         QP           H         199.9856         9.26         16.60         25.86         43.50         -17.64         QP           H         423.5403         7.08         23.86         30.94         46.00         -15.06         QP           Remark:         Emission Level= Meter Reading+ Factor, Margin= Emission Level - Limit         -10.03         QP           20         #W/m	Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
H $30.3170$ $5.72$ $25.87$ $31.59$ $40.00$ $-8.41$ QP         H $92.4624$ $7.73$ $17.17$ $24.90$ $43.50$ $-18.60$ QP         H $107.5100$ $8.25$ $18.35$ $26.60$ $43.50$ $-16.90$ QP         H $199.9856$ $9.26$ $16.60$ $25.86$ $43.50$ $-17.64$ QP         H $423.5403$ $7.08$ $23.86$ $30.94$ $46.00$ $-15.06$ QP         H $651.9415$ $7.97$ $27.00$ $34.97$ $46.00$ $-11.03$ QP         Remark:       Emission Level= Meter Reading+ Factor, Margin= Emission Level - Limit $32.00$ $34.97$ $46.00$ $-11.03$ QP $72.0$ $dBuV/m$ $dBuV/m$ $dBuV/m$ $dBuV/m$ $dBuV/m$ $Bargin       Bargin       Bargin$	(H/V)	(MHz)		(dB)		(dBuV/m)	(dB)	
H       92.4624       7.73       17.17       24.90       43.50       -18.60       QP         H       107.5100       8.25       18.35       26.60       43.50       -16.90       QP         H       199.9856       9.26       16.60       25.86       43.50       -17.64       QP         H       423.5403       7.08       23.86       30.94       46.00       -15.06       QP         H       651.9415       7.97       27.00       34.97       46.00       -11.03       QP         Remark:       Emission Level= Meter Reading+ Factor, Margin= Emission Level - Limit       72.0       dBuV/m       dBuV/m       dBuV/m         72.0       dBuV/m       dBuV/m       5       6       5       6       -4	Н							QP
H       107.5100       8.25       18.35       26.60       43.50       -16.90       QP         H       199.9856       9.26       16.60       25.86       43.50       -17.64       QP         H       423.5403       7.08       23.86       30.94       46.00       -15.06       QP         H       651.9415       7.97       27.00       34.97       46.00       -11.03       QP         Remark:       Emission Level= Meter Reading+ Factor, Margin= Emission Level - Limit       72.0       dBuV/m       dBuV/m								
H       199.9856       9.26       16.60       25.86       43.50       -17.64       QP         H       423.5403       7.08       23.86       30.94       46.00       -15.06       QP         H       651.9415       7.97       27.00       34.97       46.00       -11.03       QP         Remark:       Emission Level= Meter Reading+ Factor, Margin= Emission Level - Limit         72.0       dBuV/m								
H       423.5403       7.08       23.86       30.94       46.00       -15.06       QP         H       651.9415       7.97       27.00       34.97       46.00       -11.03       QP         Remark:       Emission Level= Meter Reading+ Factor, Margin= Emission Level - Limit       700       34.97       46.00       -11.03       QP         72.0       dBuV/m       Imagin:       Imagin: <td< td=""><td>Н</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	Н							
Remark: Emission Level= Meter Reading+ Factor, Margin= Emission Level - Limit 72.0 dBuV/m	Н		7.08		30.94	46.00	-15.06	QP
Emission Level= Meter Reading+ Factor, Margin= Emission Level - Limit 72.0 dBuV/m	Н	651.9415	7.97	27.00	34.97	46.00	-11.03	QP
$32 \underbrace{1}{1} \underbrace$	Emissio	n Level= Meter F	Reading+ Fac	tor, Margin:	= Emission Lev	vel - Limit		
	32	A Contraction of the second se	and body and the first of the	3 X Maladonathian Madada	Market March Market	5 4/11/1 <sup>1/11</sup> /11/11/11/11/11/11/11/11/11/11/11/1	6 Xuu myaama	
		0.000 40 50 1	50 70 80	(MI	lz) :	300 400 500	600 700 1	000.000



	Spurious E	mission /	Above 10	GHz (1GH:		,					
EU	IT:	PLU	TV63BT/	۹	Mod	del No.:		PLUT	V63BTA		
Те	mperature:	<b>20</b> ℃	2		Rela	Relative Humidity: 48%					
Те	st Mode:	Mode	e2/Mode	3/Mode4	Tes	t By:		Allen	Liu		
All	the modulati	ion mode	s have b	een testec	d, and th	e worst resul	lt was	repor	t as belo	W:	
	Frequency	Read Level	Cable loss	Antenna Factor	Preamp Factor		Lin	nits	Margin	Remark	Comment
	(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµ	V/m)	(dB)		
				Low Chann	iel (2402	MHz)(8-DPSK	K)Abc	ove 1G	;		
	4804.214	64.02	5.21	35.59	44.30	60.52	74	.00	-13.48	Pk	Vertical
	4804.214	41.72	5.21	35.59	44.30	38.22	54	.00	-15.78	AV	Vertical
	7206.265	61.03	6.48	36.27	44.60	59.18	74.	.00	-14.82	Pk	Vertical
	7206.265	44.84	6.48	36.27	44.60	42.99	54.	.00	-11.01	AV	Vertical
	4804.109	60.68	5.21	35.55	44.30	57.14	74.	.00	-16.86	Pk	Horizontal
	4804.109	42.31	5.21	35.55	44.30	38.77	54	.00	-15.23	AV	Horizontal
	7206.224	62.30	6.48	36.27	44.52	60.53	74.	.00	-13.47	Pk	Horizontal
	7206.224	47.24	6.48	36.27	44.52	45.47		.00	-8.53	AV	Horizontal
	Mid Channel (2441 MHz)(8-DPSK)Above 1G										
	4882.396	63.00	5.21	35.66	44.20	59.67	74.	.00	-14.33	Pk	Vertical
	4882.396	43.01	5.21	35.66	44.20	39.68	54	.00	-14.32	AV	Vertical
	7323.241	60.54	7.10	36.50	44.43	59.71	74.	.00	-14.29	Pk	Vertical
	7323.241	47.09	7.10	36.50	44.43	46.26	54	.00	-7.74	AV	Vertical
	4882.108	60.77	5.21	35.66	44.20	57.44	74.	.00	-16.56	Pk	Horizontal
	4882.108	48.32	5.21	35.66	44.20	44.99	54	.00	-9.01	AV	Horizontal
	7323.132	61.51	7.10	36.50	44.43	60.68	74.	.00	-13.32	Pk	Horizontal
	7323.132	41.91	7.10	36.50	44.43	41.08	54	.00	-12.92	AV	Horizontal
		[	H	High Chann	iel (2480	MHz)(8-DPSK	() Ab	ove 10	G	I	
	4960.397	65.99	5.21	35.52	44.21	62.51	74.	.00	-11.49	Pk	Vertical
	4960.397	44.24	5.21	35.52	44.21	40.76	54.	.00	-13.24	AV	Vertical
ľ	7440.201	62.44	7.10	36.53	44.60	61.47	74.	.00	-12.53	Pk	Vertical
	7440.201	44.82	7.10	36.53	44.60	43.85	54	.00	-10.15	AV	Vertical
ľ	4960.225	67.96	5.21	35.52	44.21	64.48	74.	.00	-9.52	Pk	Horizontal
ľ	4960.225	47.34	5.21	35.52	44.21	43.86	54	.00	-10.14	AV	Horizontal
	7440.298	61.54	7.10	36.53	44.60	60.57	74	.00	-13.43	Pk	Horizontal
ľ	7440.298	45.32	7.10	36.53	44.60	44.35	54	.00	-9.65	AV	Horizontal

Note:

(1) Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor (2)All other emissions more than 20dB below the limit.



Spurious	ous Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz								
EUT:	PLUTV63	BTA		Mode	el No.:	PLUTV63BTA			
Temperature	erature: 20 °C Relative Humidity:								
Test Mode:	Test Mode: Mode2/ Mode4 Test By: Allen Liu								
All the modu	lation mod	es have	been test	ed, and th	e worst resi	ult was rep	ort as belo	ow:	
Frequency	Meter Reading	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
			3	3Mbps(8-DP	SK)-Non-hopp	ing			
2310.00	57.99	2.97	27.80	43.80	44.96	74	-29.04	Pk	Horizontal
2310.00	44.35	2.97	27.80	43.80	31.32	54	-22.68	AV	Horizontal
2310.00	60.03	2.97	27.80	43.80	47.00	74	-27.00	Pk	Vertical
2310.00	43.64	2.97	27.80	43.80	30.61	54	-23.39	AV	Vertical
2390.00	59.39	3.14	27.21	43.80	45.94	74	-28.06	Pk	Vertical
2390.00	43.69	3.14	27.21	43.80	30.24	54	-23.76	AV	Vertical
2390.00	56.38	3.14	27.21	43.80	42.93	74	-31.07	Pk	Horizontal
2390.00	42.35	3.14	27.21	43.80	28.90	54	-25.10	AV	Horizontal
2483.50	58.45	3.58	27.70	44.00	45.73	74	-28.27	Pk	Vertical
2483.50	42.65	3.58	27.70	44.00	29.93	54	-24.07	AV	Vertical
2483.50	60.19	3.58	27.70	44.00	47.47	74	-26.53	Pk	Horizontal
2483.50	42.68	3.58	27.70	44.00	29.96	54	-24.04	AV	Horizontal
				3Mbps(8-E	OPSK)-hopping	1			
2310.00	53.92	2.97	27.80	43.80	40.89	74.00	-33.11	Pk	Vertical
2310.00	42.18	2.97	27.80	43.80	29.15	54.00	-24.85	AV	Vertical
2310.00	54.50	2.97	27.80	43.80	41.47	74.00	-32.53	Pk	Horizontal
2310.00	44.00	2.97	27.80	43.80	30.97	54.00	-23.03	AV	Horizontal
2390.00	53.82	3.14	27.21	43.80	40.37	74.00	-33.63	Pk	Vertical
2390.00	40.71	3.14	27.21	43.80	27.26	54.00	-26.74	AV	Vertical
2390.00	51.47	3.14	27.21	43.80	38.02	74.00	-35.98	Pk	Horizontal
2390.00	43.50	3.14	27.21	43.80	30.05	54.00	-23.95	AV	Horizontal
2483.50	51.04	3.58	27.70	44.00	38.32	74.00	-35.68	Pk	Vertical
2483.50	42.56	3.58	27.70	44.00	29.84	54.00	-24.16	AV	Vertical
2483.50	53.94	3.58	27.70	44.00	41.22	74.00	-32.78	Pk	Horizontal
2483.50	44.35	3.58	27.70	44.00	31.63	54.00	-22.37	AV	Horizontal

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



EUT:		sion in Restricted Band 326 PLUTV63BTA			No.:			V63BTA		
Temperature:		<b>20</b> ℃			Relative Humidity: 48%					
•					· · ·			1.5		
Test Mode:		e2/ Mode4		Test By			Allen			
All the modul						it wa	s repo	ort as beid	ow:	
Frequency	Reading Level	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Lir	mits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dB	uV/m)	(dB)	Туре	
3260	60.79	4.04	29.57	44.70	49.70	-	74	-24.30	Pk	Vertical
3260	56.51	4.04	29.57	44.70	45.42	Į	54	-8.58	AV	Vertical
3260	61.92	4.04	29.57	44.70	50.83	7	74	-23.17	Pk	Horizontal
3260	57.31	4.04	29.57	44.70	46.22	Ę	54	-7.78	AV	Horizontal
3332	64.97	4.26	29.87	44.40	54.70	-	74	-19.30	Pk	Vertical
3332	54.19	4.26	29.87	44.40	43.92	Į	54	-10.08	AV	Vertical
3332	63.82	4.26	29.87	44.40	53.55	-	74	-20.45	Pk	Horizontal
3332	52.49	4.26	29.87	44.40	42.22	Ę	54	-11.78	AV	Horizontal
17797	44.23	10.99	43.95	43.50	55.67	-	74	-18.33	Pk	Vertical
17797	32.56	10.99	43.95	43.50	44.00	Ę	54	-10.00	AV	Vertical
17788	44.83	11.81	43.69	44.60	55.73	-	74	-18.27	Pk	Horizontal
17788	32.41	11.81	43.69	44.60	43.31	Į	54	-10.69	AV	Horizontal

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



# 7.3 NUMBER OF HOPPING CHANNEL

# 7.3.1 Applicable Standard

According to FCC Part 15.247(a)(1) (iii)and ANSI C63.10-2013

# 7.3.2 Conformance Limit

Frequency hopping systems in the 2400-2483.5MHz band shall use at least 15 channels.

# 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 ANSI C63.10-2013 clause 7.8.3 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 must have its hopping function enabled. Use the following spectrum analyzer settings: Span = the frequency band of operation RBW : To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller. VBW  $\geq$  RBW Sweep = auto Detector function = peak Trace = max hold

#### 7.3.6 Test Results

EUT:	PLUTV63BTA	Model No.:	PLUTV63BTA
Temperature:	<b>20</b> ℃	Relative Humidity:	48%
Test Mode:	Mode 5(1Mbps)	Test By:	Allen Liu



# 7.4 HOPPING CHANNEL SEPARATION MEASUREMENT

# 7.4.1 Applicable Standard

According to FCC Part 15.247(a)(1) and ANSI C63.10-2013

# 7.4.2 Conformance Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5MHz band shall have hopping channel carrier frequencies that are separated by 25kHz or two-thirds of the 20dB bandwidth of the hopping channel, whichever is greater.

# 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 testing follows ANSI C63.10-2013 clause 7.8.2

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 = Measurement Bandwidth or Channel Separation

RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.

VBW ≥ RBW Sweep = auto

Detector function = peak Trace = max hold

# 7.4.6 Test Results

EUT:	PLUTV63BTA	Model No.:	PLUTV63BTA
Temperature:	<b>20</b> ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Allen Liu

# 7.5 AVERAGE TIME OF OCCUPANCY (DWELL TIME)

# 7.5.1 Applicable Standard

According to FCC Part 15.247(a)(1)(iii) and ANSI C63.10-2013

# 7.5.2 Conformance Limit

The average time of occupancy on any channel shall not be greater than 0.4s within a period of 0.4s multiplied by the number of hopping channels employed.

# 7.5.3 Measuring Instruments

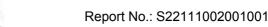
The Measuring equipment is listed in the section 6.3 of this test report.

# 7.5.4 Test Setup

Please refer to Section 6.1 of this test report.

# 7.5.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 7.8.4 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 must have its hopping function enabled. Use the following spectrum analyzer settings: Span = zero span, centered on a hopping channel RBW  $\geq$  1MHz VBW  $\geq$  RBW Sweep = as necessary to capture the entire dwell time per hopping channel Detector function = peak Trace = max hold Measure the maximum time duration of one single pulse. Set the EUT for DH5, DH3 and DH1 packet transmitting. Measure the maximum time duration of one single pulse.





#### 7.5.6 **Test Results**

EUT:	PLUTV63BTA	Model No.:	PLUTV63BTA
Temperature:	<b>20</b> ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Allen Liu

Test data reference attachment.

Note:

A Period Time = (channel number)\*0.4

DH1 Dwell time: Reading \* (1600/2)\*31.6/(channel number) DH3 Dwell time: Reading \* (1600/4)\*31.6/(channel number) DH5 Dwell time: Reading \* (1600/6)\*31.6/(channel number)

For Example:

- 1. In normal mode, hopping rate is 1600 hops/s with 6 slots in 79 hopping channels. With channel hopping rate (1600 / 6 / 79) in Occupancy Time Limit (0.4 x 79) (s), Hops Over Occupancy Time comes to  $(1600 / 6 / 79) \times (0.4 \times 79) = 106.67$  hops.
- 2. In AFH mode, hopping rate is 800 hops/s with 6 slots in 20 hopping channels. With channel hopping rate (800 / 6 / 20) in Occupancy Time Limit (0.4 x 20) (s), Hops Over Occupancy Time comes to  $(800 / 6 / 20) \times (0.4 \times 20) = 53.33$  hops.
- 3. Dwell Time(s) = Hops Over Occupancy Time (hops) x Package Transfer Time



# 7.6 20DB BANDWIDTH TEST

# 7.6.1 Applicable Standard

According to FCC Part 15.247(a)(1) and ANSI C63.10-2013

#### 7.6.2 Conformance Limit

No limit requirement.

#### 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 ANSI C63.10-2013 clause 6.9.2 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 = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel RBW  $\geq$  1% of the 20 dB bandwidth VBW  $\geq$  RBW Sweep = auto Detector function = peak Trace = max hold

# 7.6.6 Test Results

EUT:	PLUTV63BTA	Model No.:	PLUTV63BTA
Temperature:	<b>20</b> ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Allen Liu



# 7.7 **PEAK OUTPUT POWER**

# 7.7.1 Applicable Standard

According to FCC Part 15.247(b)(1) and ANSI C63.10-2013

# 7.7.2 Conformance Limit

The maximum peak conducted output power of the intentional radiator shall not exceed the following: (1) For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band 0.125 watts.

# 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 ANSI C63.10-2013 clause 7.8.5.

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 = approximately 5 times the 20 dB bandwidth, centered on a hopping channel

 $RBW \ge$  the 20 dB bandwidth of the emission being measured

 $VBW \ge RBW$ 

Sweep = auto

Detector function = peak Trace = max hold

# 7.7.6 Test Results

EUT:	PLUTV63BTA	Model No.:	PLUTV63BTA
Temperature:	<b>20</b> ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Allen Liu



# 7.8 CONDUCTED BAND EDGE MEASUREMENT

# 7.8.1 Applicable Standard

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

# 7.8.2 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. Attenuation below the general limits specified in §15.209(a) is not required. In addition, 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)).

#### 7.8.3 Measuring Instruments

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

#### 7.8.4 Test Setup

Please refer to Section 6.1 of this test report.

#### 7.8.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 7.8.6.

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 must have its hopping function enabled.

Use the following spectrum analyzer settings:

Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel

- RBW = 100KHz
- VBW = 300KHz

Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW. The attenuation shall be 30 dB instead of 20 dB when RMS conducted output power procedure is used.

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.

# 7.8.6 Test Results

EUT:	PLUTV63BTA	Model No.:	PLUTV63BTA
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	Mode2 /Mode4/ Mode 5	Test By:	Allen Liu



# 7.9 SPURIOUS RF CONDUCTED EMISSION

# 7.9.1 Applicable Standard

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

# 7.9.2 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. Attenuation below the general limits specified in §15.209(a) is not required. In addition, 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)).

#### 7.9.3 Measuring Instruments

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

# 7.9.4 Test Setup

Please refer to Section 6.1 of this test report.

#### 7.9.5 Test Procedure

Establish an emission level by using the following procedure:

a) Set the center frequency and span to encompass frequency range to be measured.

- b) Set the RBW = 100 kHz.
- c) Set the VBW  $\geq$  [3 × RBW].
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.

g) Allow trace to fully stabilize.

h) Use the peak marker function to determine the maximum amplitude level.

Then the limit shall be attenuated by at least 20 dB relative to the maximum amplitude level in 100 kHz.

# 7.9.6 Test Results

Remark: The measurement frequency range is from 30MHzHz 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.



# 7.10 ANTENNA APPLICATION

# 7.10.1 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.

# 7.10.2 Result

The EUT antenna is permanent attached PCB antenna (Gain: -2 dBi). It comply with the standard requirement.



#### 7.11 FREQUENCY HOPPING SYSTEM (FHSS) EQUIPMENT REQUIREMENTS 7.11.1 Standard Applicable

According to FCC Part 15.247(a)(1), The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals. (g) Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section. (h) The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

# 7.11.2 Frequency Hopping System

This transmitter device is frequency hopping device, and complies with FCC part 15.247 rule. This device uses Bluetooth radio which operates in 2400-2483.5 MHz band. Bluetooth uses a radio technology called frequency-hopping spread spectrum, which chops up the data being sent and transmits chunks of it on up to 79 bands (1 MHz each: centred from 2402 to 2480 MHz) in the range 2,400-2,483.5 MHz. The transmitter switches hop frequencies 1,600 times per second to assure a high degree of data security. All Bluetooth devices participating in a given piconet are synchronized to the frequency-hopping channel for the piconet. The frequency hopping sequence is determined by the master's device address and the phase of the hopping sequence (the frequency to hop at a specific time) is determined by the master's internal clock. Therefore, all slaves in a piconet must know the master's device address and must synchronize their clocks with the master's clock. Adaptive Frequency Hopping (AFH) was introduced in the Bluetooth specification to provide an effective way for a Bluetooth radio to counteract normal interference. AFH identifies "bad" channels, where either other wireless devices are interfering with the Bluetooth signal or the Bluetooth signal is interfering with another device. The AFH-enabled Bluetooth device will then communicate with other devices within its piconet to share details of any identified bad channels. The devices will then switch to alternative available "good" channels, away from the areas of interference, thus having no impact on the bandwidth used.

This device was tested with an bluetooth system receiver to check that the device maintained hopping synchronization, and the device complied with these requirements for FCC Part 15.247 rule.

# 7.11.3 EUT Pseudorandom Frequency Hopping Sequence

Pseudorandom Frequency Hopping Sequence Table as below: Channel: 08, 24, 40, 56, 40, 56, 72, 09, 01, 09, 33, 41, 33, 41, 65, 73, 53, 69, 06, 22, 04, 20, 36, 52, 38, 46, 70, 78, 68, 76, 21, 29, 10, 26, 42, 58, 44, 60, 76, 13, 03, 11, 35, 43, 37, 45, 69, 77, 55, 71, 08, 24, 08, 24, 40, 56, 40, 48, 72, 01, 72, 01, 25, 33, 12, 28, 44, 60, 42, 58, 74, 11, 05, 13, 37, 45 etc.

The system receiver have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.

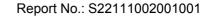


# NTEK JLW®

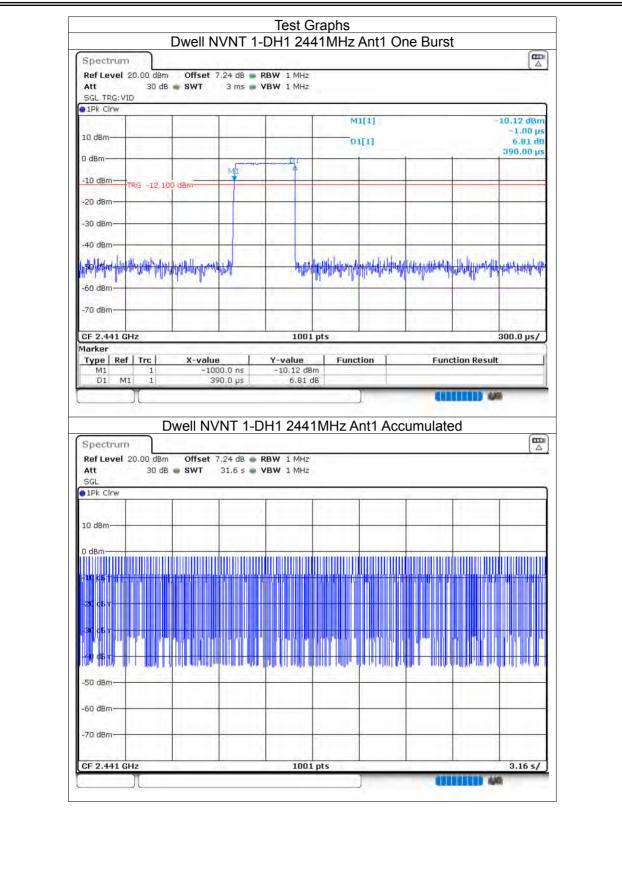
#### 8 **TEST RESULTS**

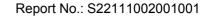
# 8.1 DWELL TIME

8.1 DWELLI									
Condition	Mode	Frequency	Antenna	Pulse	Total	Burst	Period	Limit	Verdict
		(MHz)		Time	Dwell	Count	Time	(ms)	
				(ms)	Time		(ms)		
				. ,	(ms)		. ,		
NVNT	1-DH1	2441	Ant1	0.39	81.51	209	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.645	213.85	130	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.896	306.976	106	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.396	82.368	208	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.65	219.45	133	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.896	283.808	98	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.399	80.199	201	31600	400	Pass
NVNT	3-DH3	2441	Ant1	1.65	214.5	130	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.904	296.208	102	31600	400	Pass

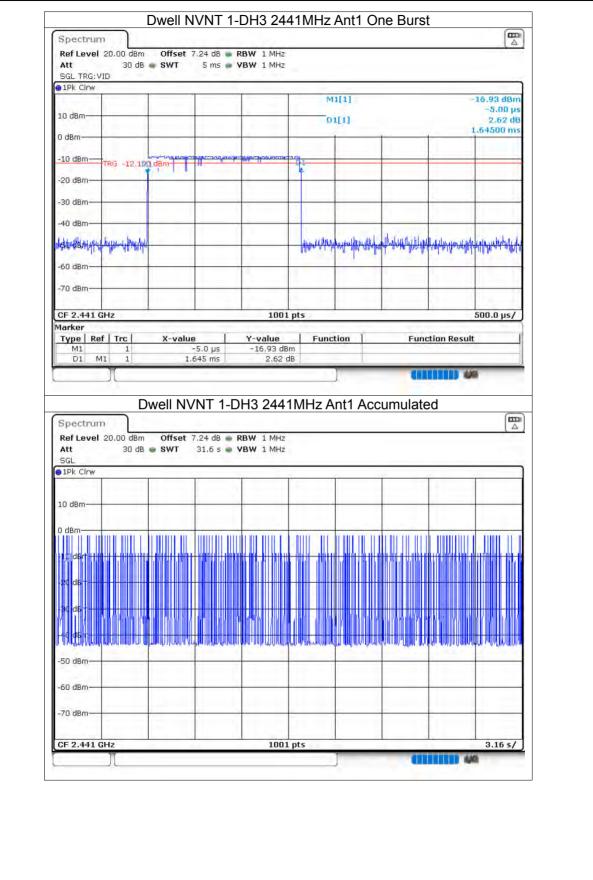






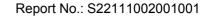




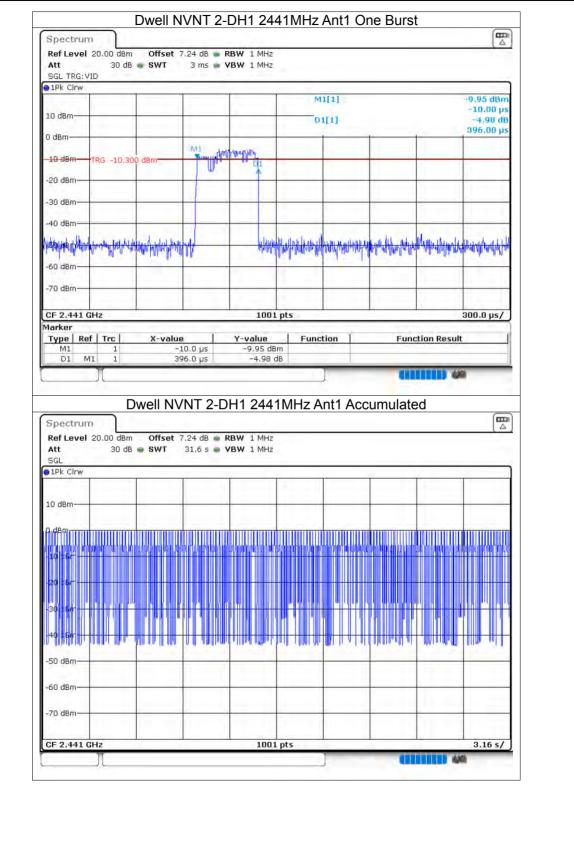




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-40 dBm									
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-70 dBm				-					
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								-	
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Spectrum		well N∨	/NT 1-D	H5 244	1MHz A	nt1 Acc	umulate	ed	
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1.00	1 20.00 dBm	Offset		BW 1 MHz		nt1 Acc	umulate	ed	
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Ref Level Att SGL	1 20.00 dBm	Offset	7.24 dB 🕳 F	BW 1 MHz		nt1 Acc			
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Ref Level Att SGL 10 dBm -10 dBm -20 dB	20.00 dBm 30 dB	Offset	7.24 dB • F 31.6 s • V	BW 1 MHz BW 1 MHz					
Ref Level Att SGL 1Pk Clrw 10 dBm -10 dBm -20 dB	1 20.00 dBm	Offset 5	7.24 dB • F 31.6 s • V	BW 1 MHz BW 1 MHz					
Ref Level Att SGL 10 dBm 0 dBm -10 dB -20 dB -30 dB	20.00 dBm 30 dB	Offset 5	7.24 dB • F 31.6 s • V	BW 1 MHz BW 1 MHz					
Ref Level Att SGL 10 dBm 0 dBm -10 dB -20 dB -30 dB	20.00 dBm 30 dB	Offset :	7.24 dB • F 31.6 s • V	BW 1 MHz BW 1 MHz					
Ref Level Att SGL ● 1Pk Clrw 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -50 dBm	20.00 dBm 30 dB	Offset :	7.24 dB • F 31.6 s • V	BW 1 MHz BW 1 MHz					
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Ref Level Att SGL • 1Pk Clrw 10 dBm -10 dBm -20 dB -20 dB -30 dB -50 dBm -60 dBm -70 dBm	20.00 dBm 30 dB	Offset :	7.24 dB • F 31.6 s • V	BW 1 MHz BW 1 MHz					
Ref Level Att SGL 10 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -50 dBm -60 dBm	20.00 dBm 30 dB	Offset :	7.24 dB • F 31.6 s • V	BW 1 MHz BW 1 MHz					(▲)
Ref Level Att SGL ● 1Pk Clrw 10 dBm -10 dBm -20 dB -30 dB -50 dBm -60 dBm -70 dBm	20.00 dBm 30 dB	Offset :	7.24 dB • F 31.6 s • V	BW 1 MHz BW 1 MHz					(▲)





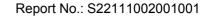




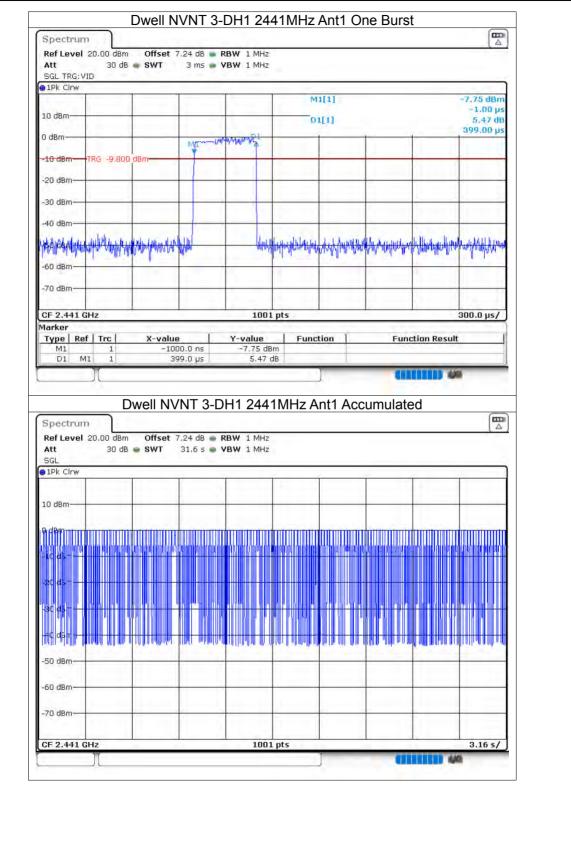
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1Pk Clrw      10 dBm      0 dBm      -50 dBm      -60 dBm							3.16 5/
1Pk Clrw      10 dBm      0 dBm      -ac cem      -bo dBm      -50 dBm      -70 dBm							3.16 5/
1Pk Clrw      10 dBm      0 dBm      -ac cem      -bo dBm      -50 dBm      -70 dBm							3.16 5/



●1Pk Clrw			_				
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Spectrum         Ref Level 20.00 dE           Att         30 r           SGL         1Pk Clrw           10 dBm         0 dBm           -20 dEm	im Offset B SWT	7.24 dB 🖷	RBW 1 MHz YBW 3 MHz					
Spectrum         Ref Level 20.00 dE           Att         30 r           SGL         1Pk Clrw           10 dBm         0 dBm           -20 dEm	im Offset B SWT	7.24 dB 🖷	RBW 1 MHz YBW 3 MHz					
Spectrum         Ref Level 20.00 dE           Att         30 dE           1Pk Clrw         10 dBm           0 dBm         10 dBm	im Offset B SWT	7.24 dB • 31.6 s •	RBW 1 MHz VBW 3 MHz					
Spectrum           Ref Level 20.00 dE           Att 30 r           SGL           IPk Clrw           10 dBm           0 dBm           -20 dBm           -20 dBm           -20 dBm           -20 dBm	im Offset B SWT	7.24 dB • 31.6 s •	RBW 1 MHz VBW 3 MHz					
Spectrum           Ref Level 20.00 dE           Att 30 r           SGL           IPk Clrw           10 dBm           0 dBm           -50 dBm           -50 dBm	im Offset B SWT	7.24 dB • 31.6 s •	RBW 1 MHz VBW 3 MHz					
Spectrum           Ref Level 20.00 dE           Att 30 r           SGL           IPk Clrw           10 dBm           0 dBm           -50 dBm           -60 dBm	im Offset B SWT	7.24 dB • 31.6 s •	RBW 1 MHz VBW 3 MHz					
Spectrum           Ref Level 20.00 dE           Att 30 r           SGL           IPk Clrw           10 dBm           0 dBm           -50 dBm	im Offset B SWT	7.24 dB • 31.6 s •	RBW 1 MHz VBW 3 MHz					▲
Spectrum           Ref Level         20.00 dE           Att         30 r           SGL         10           IPk Cirw         10           dBm         10	im Offset B SWT	7.24 dB • 31.6 s •	RBW 1 MHz VBW 3 MHz					▲



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		Certificate #4298.01

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Ref Level 2 Att	0.00 dBm	Offset 7	7.24 dB 🜰 R	BW 1 MHz					
Ref Level 2 Att SGL	0.00 dBm	Offset 7	7.24 dB 🜰 R	BW 1 MHz					
Ref Level 2 Att SGL 1Pk Clrw 10 dBm	0.00 dBm	Offset 7	7.24 dB 🜰 R	BW 1 MHz					
Ref Level 2 Att SGL 1Pk Clrw	0.00 dBm	Offset 7	7.24 dB 🜰 R	BW 1 MHz					
Ref Level 2 Att SGL 1Pk Clrw 10 dBm	0.00 dBm	Offset 7	7.24 dB 🜰 R	BW 1 MHz					
Ref Level 2 Att SGL 1Pk Cirw 10 dBm 0 dBm	0.00 dBm	Offset 7	7.24 dB 🜰 R	BW 1 MHz					
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Ref Level 2 Att SGL 10 dBm 0 dBm -20 dBm -20 dBm	0.00 dBm 30 dB	Offset 7	7.24 dB • R 31.6 s • V	BW 1 MHz BW 1 MHz					
Ref Level 2           Att           SGL           • 1Pk Clrw           • 1D dBm           0 dBm           • 1D dBm           • 20 dBm           +20 dBm           +30 dBm           +30 dBm	0.00 dBm 30 dB	Offset 7	7.24 dB • R 31.6 s • V	BW 1 MHz BW 1 MHz					
Ref Level 2           Att           SGL           • 1Pk Clrw           10 dBm           0 dBm           • 1D dBm           • 2C dBm           +3C dBm           -50 dBm	0.00 dBm 30 dB	Offset 7	7.24 dB • R 31.6 s • V	BW 1 MHz BW 1 MHz					
Ref Level 2           Att           SGL           • 1Pk Clrw           • 1D dBm           • 0 dBm           • 1D dBm           • 20 dBm           • 20 dBm           • 40 dBm	0.00 dBm 30 dB	Offset 7	7.24 dB • R 31.6 s • V	BW 1 MHz BW 1 MHz					
Ref Level 2           Att           SGL           • 1Pk Clrw           10 dBm           0 dBm           • 1D dBm           • 20 dBm           +20 dBm           +30 dBm           -50 dBm	0.00 dBm 30 dB	Offset 7	7.24 dB • R 31.6 s • V	BW 1 MHz BW 1 MHz					
Ref Level 2           Att           SGL           • IPk Clrw           10 dBm           0 dBm           +10 dBm           -20 dBm           -80 dBm           -50 dBm           -60 dBm	0.00 dBm 30 dB	Offset 7	7.24 dB • R 31.6 s • V	BW 1 MHz BW 1 MHz					
Ref Level 2           Att           SGL           • 1Pk Clrw           10 dBm           0 dBm           • 1D dGm           • 40 dGm           • 40 dGm           • 50 dBm           -60 dBm	0.00 dBm 30 dB	Offset 7	7.24 dB • R 31.6 s • V	BW 1 MHz BW 1 MHz					(A)
Ref Level 2           Att           SGL           • IPk Clrw           10 dBm           0 dBm           +10 dBm           -20 dBm           -80 dBm           -50 dBm           -60 dBm	0.00 dBm 30 dB	Offset 7	7.24 dB • R 31.6 s • V	BW 1 MHz BW 1 MHz					(A)

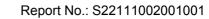


# 8.2 MAXIMUM CONDUCTED OUTPUT POWER

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power	Limit (dBm)	Verdict
	4 DUI5	0.400	A	(dBm)	04	Deer
NVNT	1-DH5	2402	Ant1	-4.63	21	Pass
NVNT	1-DH5	2441	Ant1	-4.98	21	Pass
NVNT	1-DH5	2480	Ant1	-5.17	21	Pass
NVNT	2-DH5	2402	Ant1	-2.31	21	Pass
NVNT	2-DH5	2441	Ant1	-2.61	21	Pass
NVNT	2-DH5	2480	Ant1	-2.94	21	Pass
NVNT	3-DH5	2402	Ant1	-3.64	21	Pass
NVNT	3-DH5	2441	Ant1	-2	21	Pass
NVNT	3-DH5	2480	Ant1	-3.6	21	Pass

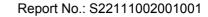


Spectrum									
Ref Level 2 Att SGL Count 1	30 dB		1 ms 🖶 VB		Mode Au	to Sweep			
1Pk Max	1	_	1	-	N	11[1]		_	-4,63 dBm
10 dBm						-	1-1	2,403	204500 GHz
0 dBm					171		-		
-10 dBm	-	_						-	
-20 dBm		_				-			
-30 dBm	_			-					
-40 dBm									
-50 dBm				-					
-60 dBm				1					
-70 dBm									
						1	1.	1	
Spectrum			ower NVI			) 1MHz A	unt1	Spa	an 5.0 MHz
Spectrum Ref Level 2 Att SGL Count 1	20.00 dBm 30 dB	Offset 7	24 dB RB 1 ms VB	NT 1-D	H5 244		ant1	Spa	
Spectrum Ref Level 2 Att SGL Count 1	20.00 dBm 30 dB	Offset 7	.24 dB 🗰 RB	NT 1-D	H5 244 Mode Au		snt1		-4,98 dBm
Spectrum Ref Level 2 Att SGL Count 1 1Pk Max	20.00 dBm 30 dB	Offset 7	.24 dB 🗰 RB	NT 1-D	H5 244 Mode Au	to Sweep	xnt1		
Spectrum Ref Level 2 Att SGL Count 1 1Pk Max 10 dBm	20.00 dBm 30 dB	Offset 7	.24 dB 🗰 RB	NT 1-D	H5 244 Mode Au	to Sweep	xnt1		-4,98 dBm
Att	20.00 dBm 30 dB	Offset 7	.24 dB 🗰 RB	NT 1-D	H5 244 Mode Au	to Sweep	<u>unt1</u>		-4,98 dBm
Spectrum Ref Level 2 Att SGL Count 1 IPk Max 10 dBm 0 dBm -10 dBm	20.00 dBm 30 dB	Offset 7	.24 dB 🗰 RB	NT 1-D	H5 244 Mode Au	to Sweep	<u>unt1</u>		-4,98 dBm
Spectrum Ref Level 2 Att SGL Count 1 1Pk Max 10 dBm -10 dBm -20 dBm	20.00 dBm 30 dB	Offset 7	.24 dB 🗰 RB	NT 1-D	H5 244 Mode Au	to Sweep	xnt1		-4,98 dBm
Spectrum Ref Level 2 Att SGL Count 1 IPk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm	20.00 dBm 30 dB	Offset 7	.24 dB 🗰 RB	NT 1-D	H5 244 Mode Au	to Sweep	xnt1		-4,98 dBm
Spectrum Ref Level 2 Att SGL Count 1 IPk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	20.00 dBm 30 dB	Offset 7	.24 dB 🗰 RB	NT 1-D	H5 244 Mode Au	to Sweep	xnt1		-4,98 dBm
Spectrum Ref Level 2 Att SGL Count 1 IPK Max 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm	20.00 dBm 30 dB	Offset 7	.24 dB 🗰 RB	NT 1-D	H5 244 Mode Au	to Sweep	unt1		-4,98 dBm
Spectrum Ref Level 2 Att SGL Count 1 1Pk Max 10 dBm	20.00 dBm 30 dB	Offset 7	.24 dB 🗰 RB	NT 1-D	H5 244 Mode Au	to Sweep	unt1		-4,98 dBm
Spectrum Ref Level 2 Att SGL Count 1 IPk Max 10 dBm -10 dBm -20 dBm -30 dBm -50 dBm -60 dBm	20.00 dBm 30 dB 100/100	Offset 7	.24 dB 🗰 RB	NT 1-D	H5 244 Mode Au	to Sweep	vnt1	2.44	-4,98 dBm



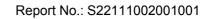
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Att SGL Coun					Mode Auto Sv	veep		
1Pk Max			1	Ĩ I	M1[1]	1		-5,17 dBm
10 dBm						-1	2.47	997500 GHz
0 dBm								
U UBIN				M				
-10 dBm—								
-20-dBm-							-	
-30 dBm								1 1
10.45				1	11111			11 222 6
-40 dBm—			-					
-50 dBm								
-60 dBm				-			-	
-70 dBm							-	
CF 2.48 G	Hz			1001	pts		Sp	an 5.0 MHz
	20.00 dBm	Offset 7	.07 dB 🖷 F	RBW 2 MHz	15 2402M			
	l 20.00 dBm 30 dB	Offset 7	.07 dB 🖷 F	RBW 2 MHz	Mode Auto Sv	veep		
Ref Leve Att SGL Coun 1Pk Max	l 20.00 dBm 30 dB	Offset 7	.07 dB 🖷 F	RBW 2 MHz		veep	2.40	-2.31 dBm 195450 GHz
Ref Leve Att SGL Coun 1Pk Max	l 20.00 dBm 30 dB	Offset 7	.07 dB 🖷 F	RBW 2 MHz	Mode Auto Sv	veep	2,40	-2.31 dBm
Ref Leve Att SGL Coun	l 20.00 dBm 30 dB	Offset 7	.07 dB 🖷 F	RBW 2 MHz	Mode Auto Sv	veep	2,40	(∆) -2.31 dBm
Ref Leve Att SGL Coun 1Pk Max 10 dBm	l 20.00 dBm 30 dB	Offset 7	.07 dB 🖷 F	RBW 2 MHz YBW 2 MHz	Mode Auto Sv	veep	2,40	(∆) -2.31 dBm
Ref Leve Att SGL Coun 1Pk Max 10 dBm	l 20.00 dBm 30 dB	Offset 7	.07 dB 🖷 F	RBW 2 MHz YBW 2 MHz	Mode Auto Sv	veep	2,40	-2.31 dBm 195450 GHz
Ref Leve Att SGL Coun 1Pk Max 10 dBm- 0 dBm- -10 dBm- -20 dBm-	l 20.00 dBm 30 dB	Offset 7	.07 dB 🖷 F	RBW 2 MHz YBW 2 MHz	Mode Auto Sv	veep	2,40	(∆) -2.31 dBm
Ref Leve Att SGL Coun 1Pk Max 10 dBm- 0 dBm- -10 dBm- -20 dBm-	l 20.00 dBm 30 dB	Offset 7	.07 dB 🖷 F	RBW 2 MHz YBW 2 MHz	Mode Auto Sv	veep	2,40	-2.31 dBm 195450 GHz
Ref Leve Att SGL Coun 1Pk Max 10 dBm- 0 dBm- -10 dBm- -20 dBm-	l 20.00 dBm 30 dB	Offset 7	.07 dB 🖷 F	RBW 2 MHz YBW 2 MHz	Mode Auto Sv	veep	2,40	-2.31 dBm 195450 GHz
Ref Leve           Att           SGL Coun           1Pk Max           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm	l 20.00 dBm 30 dB	Offset 7	.07 dB 🖷 F	RBW 2 MHz YBW 2 MHz	Mode Auto Sv	veep	2,40	-2.31 dBm 195450 GHz
Ref Leve           Att           SGL Coun           1Pk Max           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm	l 20.00 dBm 30 dB	Offset 7	.07 dB 🖷 F	RBW 2 MHz YBW 2 MHz	Mode Auto Sv	veep	2,40	-2.31 dBm 195450 GHz
Ref Leve           Att           SGL Coun           1Pk Max           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm	l 20.00 dBm 30 dB	Offset 7	.07 dB 🖷 F	RBW 2 MHz YBW 2 MHz	Mode Auto Sv	veep	2,40	-2.31 dBm 195450 GHz
Ref Leve           Att           SGL Coun           IPk Max           10 dBm           -0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -60 dBm	l 20.00 dBm 30 dB	Offset 7	.07 dB 🖷 F	RBW 2 MHz YBW 2 MHz	Mode Auto Sv	veep	2,40	-2.31 dBm 195450 GHz
Ref Leve           Att           SGL Coun           IPk Max           10 dBm           0 dBm           -10 dBm           -20 dBm           -40 dBm           -50 dBm           -60 dBm	1 20.00 dBm 30 dB t 100/100	Offset 7	.07 dB 🖷 F	RBW 2 MHz //BW 2 MHz ////////////////////////////////////	Mode Auto Sv	veep		-2.31 dBm 195450 GHz
Ref Leve           Att           SGL Coun           IPk Max           10 dBm           0 dBm           -10 dBm           -20 dBm           -40 dBm           -50 dBm           -60 dBm	1 20.00 dBm 30 dB t 100/100	Offset 7	.07 dB 🖷 F	RBW 2 MHz YBW 2 MHz	Mode Auto Sv	veep	Sp	-2.31 dBm 195450 GHz
Ref Leve           Att           SGL Coun           IPk Max           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm	1 20.00 dBm 30 dB t 100/100	Offset 7	.07 dB 🖷 F	RBW 2 MHz //BW 2 MHz ////////////////////////////////////	Mode Auto Sv	veep	Sp	-2.31 dBm 195450 GHz











	0/100	-							
					M	11[1]		2.40	-3.64 dBm 208440 GHz
10 dBm	-			-		1	1	1	
0 dBm					141				
10.40			- and the second second	-promptor starmer		and the second s	man and a state of the state of		
-10 dBm	-	and the second s					and the second sec	and	
-20 dBm	and the second				-		1		and a second
and dBm	-	_					1		and a star
-40 dBm									
-50 dBm									
-60 dBm				1			1		
-70 dBm									
CF 2.402 GHz		_	_	100	1 pts	_	_	Sp	an 6.5 MHz
Spectrum Ref Level 20 Att	.00 dBm 30 dB			BW 2 MHz BW 2 MHz	Mode Au	to Sweep			
Ref Level 20	30 dB			RBW 2 MHz VBW 2 MHz	Mode Au	to Sweep			
Ref Level 20 Att SGL Count 10	30 dB					to Sweep		2.44	( ∆ ) -2,00 dBm
Ref Level 20 Att SGL Count 10 1Pk Max	30 dB						1	2.44	
Ref Level 20 Att SGL Count 10 1Pk Max 10 dBm	30 dB							2,44	( ∆ ) -2,00 dBm
Ref Level 20 Att SGL Count 10 1Pk Max 10 dBm- 0 dBm-	30 dB				M			2.44	( ∆ ) -2,00 dBm
Ref Level 20 Att SGL Count 10 1Pk Max 10 dBm	30 dB				M		- married and	2.44	( ∆ ) -2,00 dBm
Ref Level 20 Att SGL Count 10 ) IPk Max 10 dBm -10 dBm -20 dBm	30 dB				M			2,44	( ∆ ) -2,00 dBm
Ref Level 20 Att SGL Count 10 ) IPk Max 10 dBm -10 dBm -20 dBm	30 dB				M			2.44	( ∆ ) -2,00 dBm
Ref Level 20           Att           SGL Count 10           1Pk Max           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm	30 dB				M			2,44	( ∆ ) -2,00 dBm
Ref Level 20           Att           SGL Count 10           1Pk Max           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm	30 dB				M			2,44	( ∆ ) -2,00 dBm
Ref Level 20           Att           SGL Count 10           1Pk Max           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -50 dBm	30 dB				M			2,44	( ∆ ) -2,00 dBm
Ref Level 20           Att           SGL Count 10           1Pk Max           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -50 dBm	30 dB				M			2,44	( ∆ ) -2,00 dBm
Ref Level 20           Att           SGL Count 10           1Pk Max           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -50 dBm           -60 dBm	30 dB				M			2,44	( ∆ ) -2,00 dBm
Ref Level 20           Att           SGL Count 10           1Pk Max           10 dBm           10 dBm           -10 dBm           -20 dBm           -30 dBm           -60 dBm           -70 dBm	30 dB 0/100			/BW 2 MHz	M1				-2.00 dBm 115580 GHz
Ref Level 20 Att SGL Count 10	30 dB 0/100			/BW 2 MHz	M			Sp	( ∆ ) -2,00 dBm



Spectrum		
Ref Level 20.00 dBm Offset 7.07 dB RB Att 30 dB SWT 1 ms VB SGL Count 100/100	W 2 MHz W 2 MHz Mode Auto Sweep	
1Pk Max		
10 dBm	M1[1]	-3,60 dBm 2,48004550 GHz
10 0800		
D dBm-	M12	
-10 dBm		man
-20 dBm		
-30 dBm		
-40 dBm		
-50 dBm		
-60 dBm-		
-70 dBm		
CF 2.48 GHz	1001 pts	Span 6.5 MHz



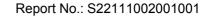
# 8.3 -20DB BANDWIDTH

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.934	Pass
NVNT	1-DH5	2441	Ant1	0.938	Pass
NVNT	1-DH5	2480	Ant1	0.934	Pass
NVNT	2-DH5	2402	Ant1	1.288	Pass
NVNT	2-DH5	2441	Ant1	1.336	Pass
NVNT	2-DH5	2480	Ant1	1.33	Pass
NVNT	3-DH5	2402	Ant1	1.272	Pass
NVNT	3-DH5	2441	Ant1	1.296	Pass
NVNT	3-DH5	2480	Ant1	1.29	Pass

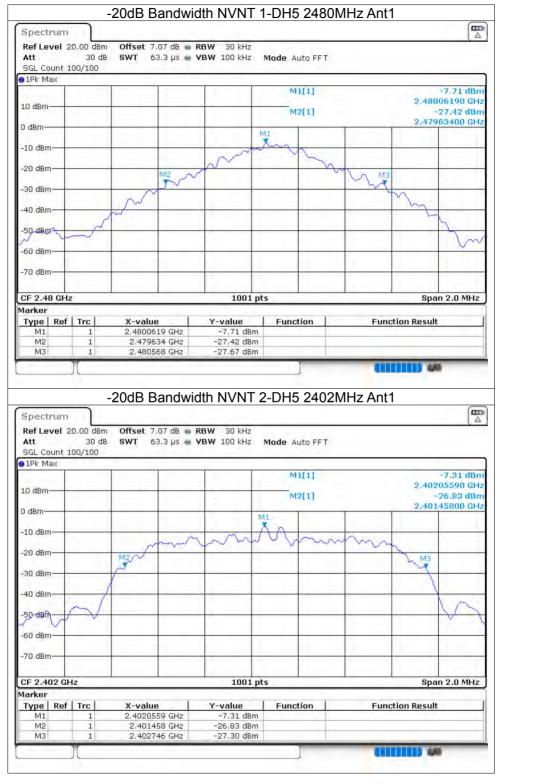
ACCREDITED Certificate #4298.01

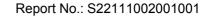


Spectrum	1		dth NVNT		0			
Ref Level 20.00 d Att 30 SGL Count 100/100	dB <b>SWT</b> 63		RBW 30 kHz YBW 100 kHz	Mode Auto F	FT			ĮΔ
●1Pk Max	1 1	-	1	M1[1]	-			-7,49 dBm
10 dBm							2.40	212590 GHz
0 dBm-			1.1	M2[1]			2.40	-27.04 dBm 163400 GHz
				MI				
-10 dBm			N	M	4	F	1.	1
-20 dBm		M2 ~			The	IN M3		
-30 dBm		J.			-	" my	~	
-40 dBm	N					- 1	m	
-50.dBm	1							h
1 yr								1/
-60 dBm								· · ·
-70 dBm	-	-	-		-	-	-	1
CF 2.402 GHz			1001 p	te			Sn	an 2.0 MHz
Marker Type   Ref   Trc			1001		1			
M1 1 M2 1 M3 1	2,402125 2,40163 2,40256	84 GHz	-7.49 dBm -27.04 dBm -27.49 dBm			01		10
M2         1           M3         1           Spectrum         Ref Level 20.00 d           Att         30	2.40163 2.40256 -20dB Ba Bm Offset 7.3 dB SWT 63	34 GHz 58 GHz andwid 24 dB	-27.04 dBm -27.49 dBm dth NVNT RBW 30 kHz	1-DH5 24		IHz Ant	1	
M2         1           M3         1           Spectrum	2.40163 2.40256 -20dB Ba Bm Offset 7.3 dB SWT 63	34 GHz 58 GHz andwid 24 dB	-27.04 dBm -27.49 dBm dth NVNT RBW 30 kHz	1-DH5 24		IHz Ant	1	<b>می</b> (۳۳
M2         1           M3         1           Spectrum         Ref Level 20.00 d           Att         30	2.40163 2.40256 -20dB Ba Bm Offset 7.3 dB SWT 63	34 GHz 58 GHz andwid 24 dB	-27.04 dBm -27.49 dBm dth NVNT RBW 30 kHz	1-DH5 24		IHz Ant	-	-7.61 dBm
M2         1           M3         1           Spectrum	2.40163 2.40256 -20dB Ba Bm Offset 7.3 dB SWT 63	34 GHz 58 GHz andwid 24 dB	-27.04 dBm -27.49 dBm dth NVNT RBW 30 kHz	1-DH5 24 Mode Auto F	FT	IHz Ant	2.44	-7.61 dBm +105790 GHz -27.36 dBm
M2         1           M3         1           Spectrum         1           Ref Level 20.00 d         1           Att         30           SGL Count 100/100         1           1D dBm         10 dBm	2.40163 2.40256 -20dB Ba Bm Offset 7.3 dB SWT 63	34 GHz 58 GHz andwid 24 dB	-27.04 dBm -27.49 dBm dth NVNT RBW 30 kHz yBW 100 kHz	1-DH5 24 Mode Auto F M1[1] M2[1]	FT	IHz Ant	2.44	(∆ -7.61 dBm ⊧105790 GHz
M2         1           M3         1           Spectrum         Ref Level 20.00 d           Att         30           SGL Count 100/100           1Pk Max	2.40163 2.40256 -20dB Ba Bm Offset 7.3 dB SWT 63	34 GHz 58 GHz andwid 24 dB	-27.04 dBm -27.49 dBm dth NVNT RBW 30 kHz yBW 100 kHz	1-DH5 24 Mode Auto F	FT	IHz Ant	2.44	-7.61 dBm +105790 GHz -27.36 dBm
M2         1           M3         1           Ref Level         20.00 d           Att         30           SGL Count         100/100           1Pk Max         10 dBm           0 dBm         -10 dBm	2.40163 2.40256 -20dB Ba Bm Offset 7.3 dB SWT 63	34 GHz 58 GHz andwid 24 dB	-27.04 dBm -27.49 dBm dth NVNT RBW 30 kHz yBW 100 kHz	1-DH5 24 Mode Auto F M1[1] M2[1]	FT	IHz Ant	2.44	-7.61 dBm +105790 GHz -27.36 dBm
M2         1           M3         1           Spectrum         Ref Level 20.00 d           Att         30           SGL Count 100/100           1Pk Max           10 dBm           0 dBm           -10 dBm           -20 dBm	2:40163 2:40256 -20dB Ba Bm Offset 7:2 dB SWT 63	34 GHz 58 GHz andwid 24 dB	-27.04 dBm -27.49 dBm dth NVNT RBW 30 kHz yBW 100 kHz	1-DH5 24 Mode Auto F M1[1] M2[1]	FT	IHz Ant	2.44	-7.61 dBm +105790 GHz -27.36 dBm
M2         1           M3         1           Ref Level         20.00 d           Att         30           SGL Count         100/100           1Pk Max         10 dBm           0 dBm         -10 dBm	2:40163 2:40256 -20dB Ba Bm Offset 7:2 dB SWT 63	84 GHz 88 GHz 24 dB 11 3.3 µs 11	-27.04 dBm -27.49 dBm dth NVNT RBW 30 kHz yBW 100 kHz	1-DH5 24 Mode Auto F M1[1] M2[1]	FT		2.44	-7.61 dBm +105790 GHz -27.36 dBm
M2         1           M3         1           Spectrum         Ref Level 20.00 d           Att         30           SGL Count 100/100           1Pk Max           10 dBm           0 dBm           -10 dBm           -20 dBm	2:40163 2:40256 -20dB Ba Bm Offset 7:2 dB SWT 63	84 GHz 88 GHz 24 dB 11 3.3 µs 11	-27.04 dBm -27.49 dBm dth NVNT RBW 30 kHz yBW 100 kHz	1-DH5 24 Mode Auto F M1[1] M2[1]	FT		2.44	-7.61 dBm +105790 GHz -27.36 dBm
M2         1           M3         1           Ref Level 20.00 d           Att         30           SGL Count 100/100           ID dBm           10 dBm           -10 dBm           -20 dBm           -30 dBm	2:40163 2:40256 -20dB Ba Bm Offset 7:2 dB SWT 63	84 GHz 88 GHz 24 dB 11 3.3 µs 11	-27.04 dBm -27.49 dBm dth NVNT RBW 30 kHz yBW 100 kHz	1-DH5 24 Mode Auto F M1[1] M2[1]	FT		2.44	-7.61 dBm +105790 GHz -27.36 dBm
M2         1           M3         1           Ref Level 20.00 d         Att 30           SGL Count 100/100         10 dBm           10 dBm         0           -10 dBm         -20 dBm           -30 dBm         -40 dBm	2:40163 2:40256 -20dB Ba Bm Offset 7:2 dB SWT 63	84 GHz 88 GHz 24 dB 11 3.3 µs 11	-27.04 dBm -27.49 dBm dth NVNT RBW 30 kHz yBW 100 kHz	1-DH5 24 Mode Auto F M1[1] M2[1]	FT		2.44	-7.61 dBm +105790 GHz -27.36 dBm
M2         1           M3         1           Ref Level 20.00 d         Att 30           SGL Count 100/100         10 dBm           0 dBm         0           -10 dBm         -20 dBm           -30 dBm         -60 dBm	2:40163 2:40256 -20dB Ba Bm Offset 7:2 dB SWT 63	84 GHz 88 GHz 24 dB 11 3.3 µs 11	-27.04 dBm -27.49 dBm dth NVNT RBW 30 kHz yBW 100 kHz	1-DH5 24 Mode Auto F M1[1] M2[1]	FT		2.44	-7.61 dBm +105790 GHz -27.36 dBm
M2         1           M3         1           Ref Level 20.00 d           Att         30           SGL Count 100/100           ID dBm           10 dBm           -20 dBm           -30 dBm           -40 dBm	2:40163 2:40256 -20dB Ba Bm Offset 7:2 dB SWT 63	84 GHz 88 GHz 24 dB 11 3.3 µs 11	-27.04 dBm -27.49 dBm dth NVNT RBW 30 kHz yBW 100 kHz	1-DH5 24 Mode Auto F M1[1] M2[1]	FT		2.44	-7.61 dBm +105790 GHz -27.36 dBm
M2         1           M3         1           Ref Level 20.00 d         Att 30           SGL Count 100/100         10 dBm           0 dBm         0           -10 dBm         -           -20 dBm         -           -30 dBm         -           -60 dBm         -           -70 dBm         -           -70 dBm         -           -70 dBm         -	2:40163 2:40256 -20dB Ba Bm Offset 7:2 dB SWT 63	84 GHz 88 GHz 24 dB 11 3.3 µs 11	-27.04 dBm -27.49 dBm dth NVNT RBW 30 kHz yBW 100 kHz	1-DH5 24	FT		2.44	-7.61 dBm +105790 GHz -27.36 dBm
M2         1           M3         1           Ref Level 20.00 d           Att         30           SGL Count 100/100           •IPk Max           10 dBm           •10 dBm           •20 dBm           •30 dBm           •60 dBm           •70 dBm           •CF 2.441 GHz           Marker	2.40163 2.40256 -20dB Ba Bm Offset 7.2 dB SWT 63	M2	-27.04 dBm -27.49 dBm dth NVNT RBW 30 kHz yBW 100 kHz	1-DH5 24	FT	M3	2.44 2.44	-7.61 dBm H105790 GHz -27.36 dBm 063000 GHz
M2         1           M3         1           Ref Level 20.00 d         Att 30           SGL Count 100/100         10 dBm           0 dBm         0           -10 dBm         -           -20 dBm         -           -30 dBm         -           -60 dBm         -           -70 dBm         -           -70 dBm         -           -70 dBm         -	2:40163 2:40256 -20dB Ba Bm Offset 7:2 dB SWT 63	34 GHz           88 GHz           andwid           24 dB           1,3 μ5           1,3 μ5	-27.04 dBm -27.49 dBm dth NVNT RBW 30 kHz yBW 100 kHz	1-DH5 24	FT	M3	2.44	-7.61 dBm H105790 GHz -27.36 dBm 063000 GHz

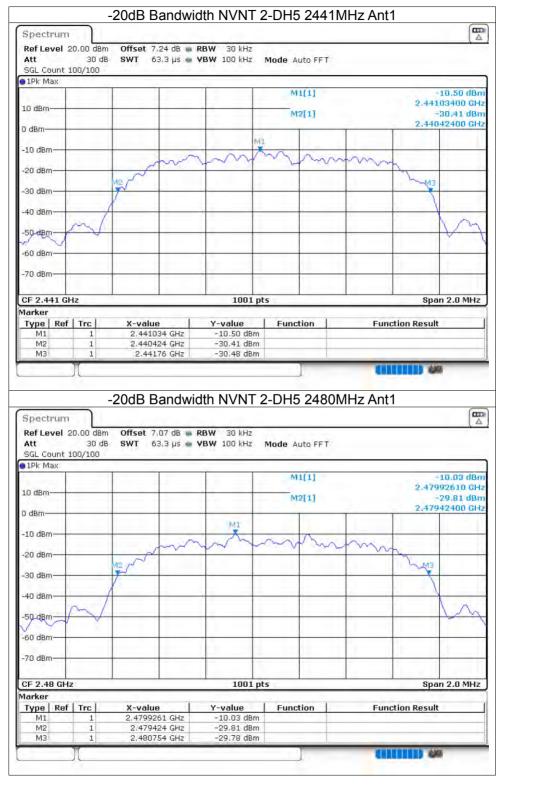


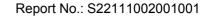






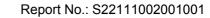














Spectrum									(m)
Ref Level 2 Att SGL Count 1	30 de			RBW 30 kHz VBW 100 kHz	Mode Au	ito FFT			14
1Pk Max	1.1								
10 dBm					-	L[1] 2[1]			-7.62 dBm 06190 GHz 27.44 dBm 44800 GHz
0 dBm					M1				1-1
-20 dBm	_	MB	~~~	m		mar	m	M3	
-30 dBm		1 -						- Co	
-40 dBm	~1	4		-					
-50 dBm	V				1				2
-70 dBm	_								
CF 2.48 GHz				1001	pts	-		Spa	n 2.0 MHz
Aarker	Trc	X-value	1	Y-value	Funct	ion I	Fund	tion Result	
Type Ref M1 M2	1	2.48006	19 GHz	-7.62 dBn -27.44 dBn	n		Func	tion Result	
M3	1	2.4807	38 GHz	-27.60 dBn	n				

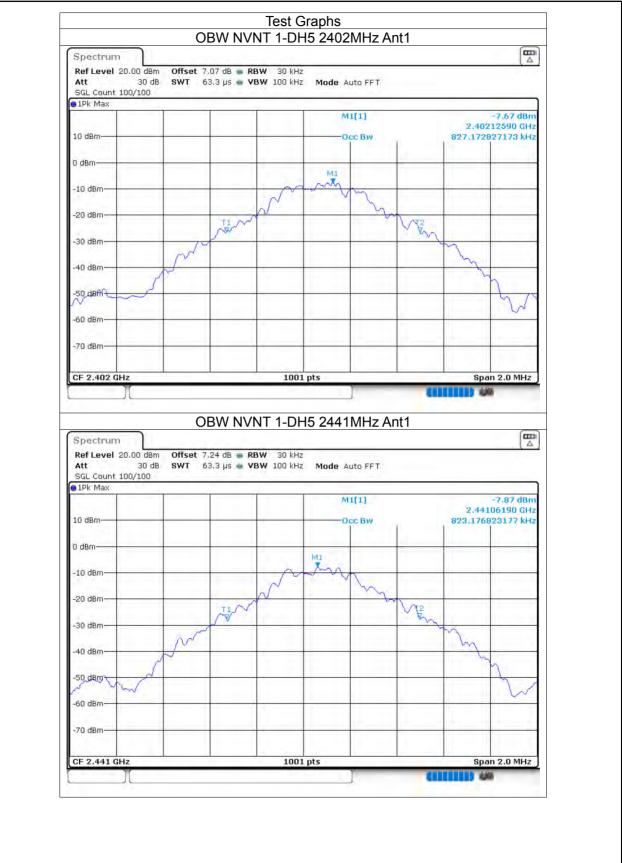


# NTEK 北测

# 8.4 OCCUPIED CHANNEL BANDWIDTH

•••••				
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH5	2402	Ant1	0.827
NVNT	1-DH5	2441	Ant1	0.823
NVNT	1-DH5	2480	Ant1	0.843
NVNT	2-DH5	2402	Ant1	1.173
NVNT	2-DH5	2441	Ant1	1.187
NVNT	2-DH5	2480	Ant1	1.181
NVNT	3-DH5	2402	Ant1	1.167
NVNT	3-DH5	2441	Ant1	1.187
NVNT	3-DH5	2480	Ant1	1.183









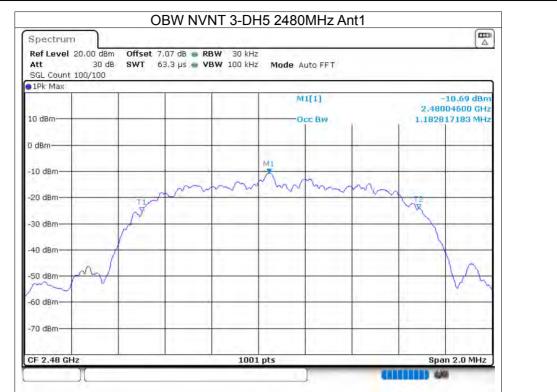














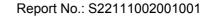


# 8.5 CARRIER FREQUENCIES SEPARATION

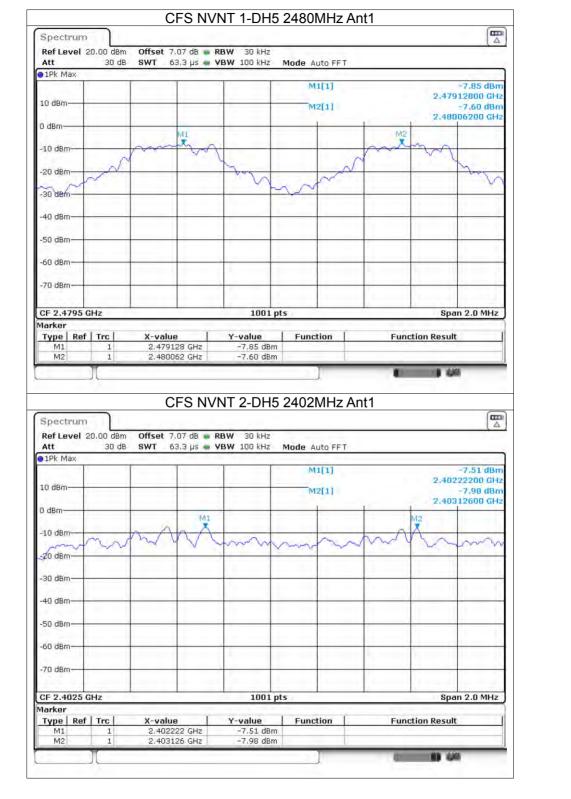
<u>ر</u> . ر												
	Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict				
	NVNT	1-DH5	Ant1	2402.124	2403.06	0.936	0.623	Pass				
	NVNT	1-DH5	Ant1	2441.126	2442.128	1.002	0.625	Pass				
	NVNT	1-DH5	Ant1	2479.128	2480.062	0.934	0.623	Pass				
	NVNT	2-DH5	Ant1	2402.222	2403.126	0.904	0.859	Pass				
	NVNT	2-DH5	Ant1	2441.22	2442.126	0.906	0.891	Pass				
	NVNT	2-DH5	Ant1	2479.128	2480.062	0.934	0.887	Pass				
	NVNT	3-DH5	Ant1	2402.086	2403.067	0.981	0.848	Pass				
	NVNT	3-DH5	Ant1	2441.06	2442.088	1.028	0.864	Pass				
	NVNT	3-DH5	Ant1	2479.088	2480.07	0.982	0.86	Pass				

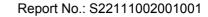




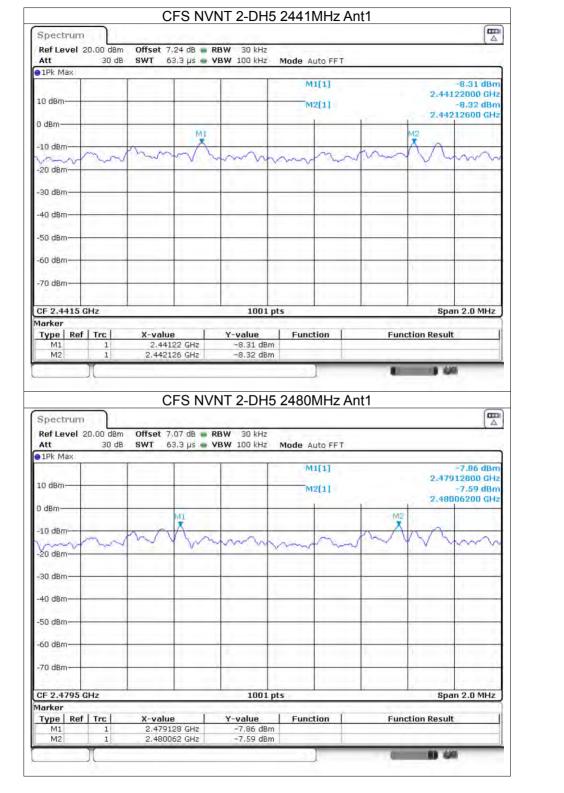


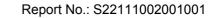




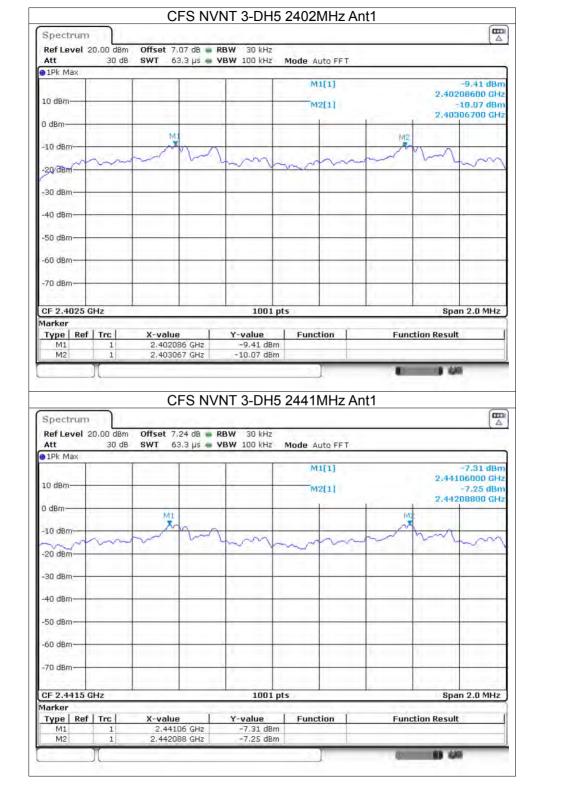














	fset 7.07 dB <mark>● RBW</mark> 30 kF WT 63,3 µs ● VBW 100 kF			
1Pk Max				
10 dBm		M1[1] M2[1]	-7,55 dt 2,47908800 G -8,01 dt	Hz 3m
0 dBm			2.48007000 G	Hz
	M		M2	
-10 dBm-	mon	1 min	- Maha	
-20 dBm		m m		
-30 dBm				
-40 dBm				
-50 dBm-				
-60 dBm				
-70 dBm				
CF 2.4795 GHz Aarker	100	01 pts	Span 2.0 MH	IZ
	K-value   Y-value	Function	Function Result	1
M1 1 M2 1	2.479088 GHz -7.55 c 2.48007 GHz -8.01 c			



# 8.6 NUMBER OF HOPPING CHANNEL

Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass



		Ηορρί	ng No.	<u>Test G</u> NVNT 1		402MH	z Ant1		
Spectrum			<u> </u>						
Ref Level	20.00 dBm			3W 100 kHz					14
Att 1Pk Max	30 dB	SWT	1 ms 🖷 ۷	BW 300 kHz	Mode A	uto Sweep			
TEV INGO	1	1			M	1[1]		2.0	-5.00 dBm
10 dBm			-		M	2[1]		2.40	-5.63 dBm
							1	2.40	303270 GHz
GAGBM-	NHNHHANN		nnnnnn	000000000	00000000	INDODES NO		пплппппп	M2
-10 CBm++++	HAIMANA	Balanti	HUHAHA	HARLAN P	HUUUUU			nn HAAN HA	
-20 dBm+++	AMAMAN	A MANAMANA A	AAAAAAAA	() v u v v v v v v v v v v v v v v v v v	AAAAAAA	Anananan	KAABABABA	YYYYYY	MYYYY
1000									
-30 dBm					1			1	
-40 dBm			-						
-50 dBm									
									low
-60 dBm-	i un contra di		1	i			l.,	1	
-70 dBm			$\rightarrow$						
5				1		1	- I	1.	
Start 2.4 G Aarker	Hz	-		1001	pts			Stop 2	.4835 GHz
	N	2.48032 Hoppi		-5.63 dB	2	] 402MH	z Ant1	88 A	6
Ref Level	20.00 dBm	Hoppi Offset 7.	ng No. 07 db 🝙 Re	NVNT 2	-DH5 2		z Ant1	80 4J	
Ref Level Att		Норрі	ng No. 07 db 🝙 Re	NVNT 2	-DH5 2 Mode A	uto Sweep	z Ant1	80 Q	(Δ
Ref Level Att 1Pk Max	20.00 dBm	Hoppi Offset 7.	ng No. 07 db 🝙 Re	NVNT 2	-DH5 2 Mode A		z Ant1	2.40	_∆ -5.73 dBm
Ref Level Att 1Pk Max	20.00 dBm	Hoppi Offset 7.	ng No. 07 db 🝙 Re	NVNT 2	-DH5 2 Mode A	uto Sweep	z Ant1		-5.73 dBm 120040 GHz -9.81 dBm
Ref Level Att 1Pk Max 10 dBm	20.00 dBm 30 dB	Hoppi offset 7. swt	ng No. <sup>07 dB</sup> RH 1 ms VI	NVNT 2	-DH5 2 Mode A	uto Sweep 1[1] 2[1]		2.48	-5.73 dBm 120040 GHz -9.81 dBm 305775 GHz
Ref Level Att 1Pk Max 10 dBm	20.00 dBm 30 dB	Hoppi offset 7. swt	ng No. <sup>07 dB</sup> RH 1 ms VI	NVNT 2	-DH5 2 Mode A	uto Sweep 1[1] 2[1]		2.48	-5.73 dBm 120040 GHz -9.81 dBm 305775 GHz
Ref Level Att 1Pk Max 10 dBm	20.00 dBm 30 dB	Hoppi offset 7. swt	ng No. <sup>07 dB</sup> RH 1 ms VI	NVNT 2	-DH5 2 Mode A	uto Sweep 1[1] 2[1]	z Ant1	2.48	-5.73 dBm 120040 GHz -9.81 dBm 305775 GHz
Ref Level Att 1Pk Max 10 dBm	20.00 dBm 30 dB	Hoppi offset 7. swt	ng No. <sup>07 dB</sup> RH 1 ms VI	NVNT 2	-DH5 2 Mode A	uto Sweep 1[1] 2[1]		2.48	-5.73 dBm 120040 GHz -9.81 dBm 305775 GHz
Ref Level Att 1Pk Max 10 dBm- q.dBm- -10 dBm-	20.00 dBm 30 dB	Hoppi offset 7. swt	ng No. <sup>07 dB</sup> RH 1 ms VI	NVNT 2	-DH5 2 Mode A	uto Sweep 1[1] 2[1]		2.48	-5.73 dBm 120040 GHz -9.81 dBm 305775 GHz
Ref Level           Att           1Pk Max           10 dBm           q.qBm           -J0 dBm           -J0 dBm           -J0 dBm	20.00 dBm 30 dB	Hoppi offset 7. swt	ng No. <sup>07 dB</sup> RH 1 ms VI	NVNT 2	-DH5 2 Mode A	uto Sweep 1[1] 2[1]		2.48	-5.73 dBm 120040 GHz -9.81 dBm 305775 GHz
Ref Level           Att           1Pk Max           10 dBm           0,4Bm           -10 dBm           -20 dBm           -30 dBm           40 dBm	20.00 dBm 30 dB	Hoppi offset 7. swt	ng No. <sup>07 dB</sup> RH 1 ms VI	NVNT 2	-DH5 2 Mode A	uto Sweep 1[1] 2[1]		2.48	-5.73 dBm 120040 GHz -9.81 dBm 305775 GHz
Ref Level           Att           1Pk Max           10 dBm           0,4Bm           -10 dBm           -20 dBm           -30 dBm           40 dBm	20.00 dBm 30 dB	Hoppi offset 7. swt	ng No. <sup>07 dB</sup> RH 1 ms VI	NVNT 2	-DH5 2 Mode A	uto Sweep 1[1] 2[1]		2.48	-5.73 dBm 120040 GHz -9.81 dBm 305775 GHz
Ref Level Att           1Pk Max           10 dBm           0,dBm           -10 dBm           -20 dBm           -30 dBm           -50 dBm	20.00 dBm 30 dB	Hoppi offset 7. swt	ng No. <sup>07 dB</sup> RH 1 ms VI	NVNT 2	-DH5 2 Mode A	uto Sweep 1[1] 2[1]		2.48	-5.73 dBm 120040 GHz -9.81 dBm 305775 GHz
Ref Level           Att           1Pk Max           10 dBm           q.qBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -60 dBm	20.00 dBm 30 dB	Hoppi offset 7. swt	ng No. <sup>07 dB</sup> RH 1 ms VI	NVNT 2	-DH5 2 Mode A	uto Sweep 1[1] 2[1]		2.48	-5.73 dBm 120040 GHz -9.81 dBm 305775 GHz
Ref Level Att           1Pk Max           10 dBm           q.qBm           -10 dBm           -20 dBm           -30 dBm           -50 dBm           -60 dBm	20.00 dBm 30 dB	Hoppi offset 7. swt	ng No. <sup>07 dB</sup> RH 1 ms VI	NVNT 2	-DH5 2 Mode A	uto Sweep 1[1] 2[1]		2.48	-5.73 dBm 120040 GHz -9.81 dBm 305775 GHz
Ref Level Att           1Pk Max           10 dBm           q.qBm           -10 dBm           -20 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -70 dBm           -70 dBm           -70 dBm           -70 dBm           -70 dBm	20.00 dBm 30 dB	Hoppi offset 7. swt	ng No. 07 dB - RH 1 ms - VI	NVNT 2	-DH5 2 Mode A M	uto Sweep 1[1] 2[1]		2.48 WAMAA 	-5.73 dBm 120040 GHz -9.81 dBm 305775 GHz
Att 1Pk Max 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm	20.00 dBm 30 dB	Hoppi offset 7. swt	ng No.	NVNT 2	-DH5 2 Mode A M	uto Sweep 1[1] 2[1] MMMMMM		2.48 WAMAA 	-5.73 dBm 020040 GHz -9.81 dBm 005775 GHz
Ref Level Att           1Pk Max           10 dBm           0,dBm           -10 dBm           -20 dBm           -20 dBm           -80 dBm           -50 dBm           -60 dBm           -70 dBm           Start 2.4 G           Marker	20.00 dBm 30 dB	Hoppi	ng No.		-DH5 2	uto Sweep 1[1] 2[1] MMMMMM		2.48 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	-5.73 dBm 020040 GHz -9.81 dBm 005775 GHz

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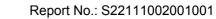
Spectrun Ref Level	20.00 dB		B 🥃 RBW 100 kHz	S. 55 6			
Att	30 c	1B SWT 1 m	s 🖷 VBW 300 kHz	Mode Auto Swee	ep		
1Pk Max		1		ALLER T			10 51 30
				M1[1]			10.64 dBm 16700 GHz
10 dBm				M2[1]			11.66 dBm
				(inter)			04940 GHz
) dBm				1	+ +		
11					1		NACT.
THIRADAN	AAAAAA	the the the for the the	LALAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	www.white	A ALABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	Altada	WILL LAUFWY
- Walkan	a se de la stad de	and was a mar had by And	A A AMA BARA ARE AND A REAL AND A	ashered Adardee the	Add why a good a	. bak Ind	on the second
20 dBm-							
1 m m							
30 dBm							
1							
40 dBm							
1 million (1997)							N.
50 dBm							Link
50 dBm							
			-				
60 dBm							
-60 dBm							
-60 dBm -70 dBm			1001			Ster 2	4995 0115
-50 dBm	iHz		1001 p	ts		Stop 2	4835 GHz
60 dBm							
-60 dBm -70 dBm		X-value 2.40167 Gf	Y-value	ts	Funct	Stop 2	



# 8.7 BAND EDGE

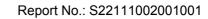
0.1	<b>DANDED</b>	<b>7</b>						
	Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
	NVNT	1-DH5	2402	Ant1	No-Hopping	-47.09	-20	Pass
	NVNT	1-DH5	2480	Ant1	No-Hopping	-47.05	-20	Pass
	NVNT	2-DH5	2402	Ant1	No-Hopping	-46.81	-20	Pass
	NVNT	2-DH5	2480	Ant1	No-Hopping	-47.32	-20	Pass
	NVNT	3-DH5	2402	Ant1	No-Hopping	-43.47	-20	Pass
	NVNT	3-DH5	2480	Ant1	No-Hopping	-46.7	-20	Pass

ACCREDITED Certificate #4298.01



NTEK LIN <sup>®</sup>
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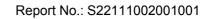
Spectrum Ref Level 20.									
Att SGL Count 100		SWI 18	.9 µs 🖷 Vi	<b>BW</b> 300 kHz	Mode A	uto FFT			
1Pk Max		-			M	1[1]			-6,90 dBm
10 dBm						-		2,401	192810 GHz
0 dBm				MI	-				
-10 dBm	-		-	M	~				1
-20 dBm	-	-							
-30 dBm	-								
-40 dBm	-		_		)				
-50 dBm			P			by			
-60. ABM	m	mma	~~		-	h	mm	m	m
-70 dBm	-	_							
Ban	id Edg			1001 p	IHz An	] t1 No-H	opping I		on
Ban Spectrum Ref Level 20. Att SGL Count 100	nd Edg	Offset 5	.07 dB 📦 R	5 2402M	IHz An		opping I		on 📖
Ban Spectrum Ref Level 20. Att SGL Count 100	nd Edg	Offset 5	.07 dB 📦 R	5 2402M	IHz An Mode	Auto FFT	opping I		on (The second s
Ban Spectrum Ref Level 20. Att SGL Count 100 1Pk Max	nd Edg	Offset 5	.07 dB 📦 R	5 2402M	IHz An Mode		opping I	Emissic	-7.46 dBm -25000 GHz -58.52 dBm
Ban Spectrum Ref Level 20. Att SGL Count 100 1Pk Max 10 dBm 0 dBm	nd Edg	Offset 5	.07 dB 📦 R	5 2402M	IHz An Mode	Auto FFT.	opping I	Emissic	-7.46 dBm 225000 GHz
Ban Spectrum Ref Level 20. Att SGL Count 100 1Pk Max 10 dBm 0 dBm -10 dBm	nd Edg	Offset 5	.07 dB 📦 R	5 2402M	IHz An Mode	Auto FFT.	opping E	Emissic	000 -7.46 dBm 225000 GH₂ 58.52 dBm 58.52 dBm 500000 GH₂
Ban Spectrum Ref Level 20. Att SGL Count 1000 1Pk Max 10 dBm -10 dBm -20 dBm	00 dBm 30 dB 30/100	Offset 5 SWT 22	.07 dB 📦 R	5 2402M	IHz An Mode	Auto FFT.	opping I	Emissic	000 -7.46 dBm 225000 GH₂ 58.52 dBm 58.52 dBm 500000 GH₂
Spectrum           Ref Level 20.           Att           SGL Count 100           1Pk Max           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm	nd Edg	Offset 5 SWT 22	.07 dB 📦 R	5 2402M	IHz An Mode	Auto FFT.	opping E	Emissic	000 -7.46 dBm 225000 GH₂ 58.52 dBm 58.52 dBm 500000 GH₂
Ban           Spectrum           Ref Level 20.           Att           SGL Count 1000           IPk Max           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm	00 dBm 30 dB 30/100	Offset 5 SWT 22	.07 dB 📦 R	5 2402M	IHz An Mode	Auto FFT.	opping I	Emissic	000 -7.46 dBm 225000 GH₂ 58.52 dBm 58.52 dBm 500000 GH₂
Ban           Spectrum           Ref Level 20.           Att           SGL Count 1000           1Pk Max           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm	1d Edg 00 dBm 30 dB 30/100	Offset 5. SWT 22	.07 dB <b>ε R</b> 7.5 μs <b>ε V</b>	5 2402M	IHz An Mode	Auto FFT.		2.402 2.400	-7.46 dBm 225000 GHz -58.52 dBm 000000 GHz M1
Ban           Spectrum           Ref Level 20.           Att           SGL Count 1000           1Pk Max           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm	1d Edg 00 dBm 30 dB 30/100	Offset 5 SWT 22	.07 dB 📦 R	5 2402M	IHz An Mode	Auto FFT.	opping E	2.402 2.400	000 -7.46 dBm 225000 GH₂ 58.52 dBm 58.52 dBm 500000 GH₂
Ban Spectrum Ref Level 20. Att SGL Count 100 IPk Max 10 dBm -10 dBm -20 dBm -20 dBm -20 dBm -30 dBm -50 dBm	1d Edg 00 dBm 30 dB 30/100	Offset 5. SWT 22	.07 dB <b>ε R</b> 7.5 μs <b>ε V</b>	5 2402M	IHz An Mode	Auto FFT.		2.402 2.400	-7.46 dBm 225000 GHz -58.52 dBm 000000 GHz M1
Ban Spectrum Ref Level 20. Att SGL Count 100 IPk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -30 dBm -70 dBm -70 dBm -70 dBm	1d Edg 00 dBm 30 dB 30 dB 0/100	Offset 5. SWT 22	.07 dB <b>ε R</b> 7.5 μs <b>ε V</b>	5 2402M	IHz An Mode M	Auto FFT.		2.402 2.400	-7.46 dBm 225000 GHz -58.52 dBm 000000 GHz M1
Ban           Spectrum           Ref Level 20.           Att           SGL Count 1000           IPk Max           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm	10 Edg 00 dBm 30 dB 3/100 -26,903 d	Offset 5. SWT 22	.07 dB <b>ε R</b> 7.5 μs <b>ν</b> γ	5 2402M	IHZ AN Mode M M M M M M M M M M M M M M M M M M M	Auto FFT.	struthingardut	2.402 2.400	-7.46 dBm -7.46 dBm 225000 GH2 -58.52 dBm 006000 GH2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M
Ban Spectrum Ref Level 20. Att SGL Count 100 IPk Max 10 dBm -10 dBm -20 dBm -20 dBm -20 dBm -30 dBm -30 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm	1d Edg 00 dBm 30 dB 30 dB -26,903 d	Offset 5. SWT 22 Bm Bm X-value 2.4022 2. 2.3	.07 dB <b>ε R</b> 7.5 μs <b>ν</b> γ	5 2402M	IHz An Mode Mode M M M M M M M M M M M M M M M M M M M	Auto FFT.	struthingardut	Emissic 2.402 2.400	-7.46 dBm -7.46 dBm 225000 GH2 -58.52 dBm 006000 GH2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M



	rum vel	20.00 dBi 30 d			RBW 100 kHz YBW 300 kHz	Mode Au	ito FFT			
SGL Co		100/100	3413 3				0.00			
1Pk Ma	эх		1	-	1 1					2 02 15
						MJ	[1]		2.480	-7.97 dBm 08790 GHz
10 dBm-										
0 dBm—			-					-		1.
10.10					J.	1				
-10 dBm	)					1				
-20 dBm	-		-		1	- \		·		· · · · · · ·
						1				
-30 dBm	-		-							
12.00						$\langle \rangle$				
-40 dBm	1									· · · · · · · · · · · · · · · · · · ·
-50 dBm					1		VA .			1
				1			5.0			
60 dBfr	20	m	man	p -			(VV)	mm	m	min
-70 dBm	1-									
122.						· · · · ·	1			
CF 2.4	B GH	z		-	1001	pts	_		Spa	n 8.0 MHz
Spect	rum				H5 2480M		1 No-Ho	opping I	Emissio	n M
Ref Le Att	rum vel		n Offset	5.07 dB 🖷	H5 2480M RBW 100 kHz VBW 300 kHz			opping I	Emissio	
Ref Le Att	rum vel unt	1 20.00 dBi 30 d	n Offset	5.07 dB 🖷	RBW 100 kHz			opping I		
Ref Le Att SGL Co	rum vel unt	1 20.00 dBi 30 d	n Offset	5.07 dB 🖷	RBW 100 kHz	Mode A		opping I		-7.94 dBm
Ref Le Att SGL Co	rum vel unt	1 20.00 dBi 30 d	n Offset	5.07 dB 🖷	RBW 100 kHz	Mode A	uto FFT	opping I	2.480	
Ref Le Att SGL Co 1Pk Ma	rum vel unt	1 20.00 dBi 30 d	n Offset	5.07 dB 🖷	RBW 100 kHz	Mode A	uto FFT.	opping I	2.480	-7,94 dBm 05000 GHz
Ref Le Att SGL Co 1Pk Ma 10 dBm	rum vel unt ax	1 20.00 dBi 30 d	n Offset	5.07 dB 🖷	RBW 100 kHz	Mode A	uto FFT.	opping I	2.480	-7.94 dBm 05000 GHz 57.64 dBm
Ref Le Att SGL Co 1Pk M: 1D dBm D dBm -10 dBm	rum vel junt	1 20.00 dBi 30 d	n Offset	5.07 dB 🖷	RBW 100 kHz	Mode A	uto FFT.	opping I	2.480	-7.94 dBm 05000 GHz 57.64 dBm
Ref Le Att SGL Co 1Pk Ma 10 dBm 0 dBm	rum vel uunt	20.00 dBi 30 d 100/100	m Offset .	5.07 dB 🖷	RBW 100 kHz	Mode A	uto FFT.	opping I	2.480	-7.94 dBm 05000 GHz 57.64 dBm
Ref Le Att SGL Co 1Pk M: 1D dBm D dBm -10 dBm	rum vel ount	1 20.00 dBi 30 d	m Offset .	5.07 dB 🖷	RBW 100 kHz	Mode A	uto FFT.	opping I	2.480	-7.94 dBm 05000 GHz 57.64 dBm
Ref Le Att SGL Co IPk M ID dBm -10 dBm -10 dBm -20 dBm	rum vel unt i	20.00 dBi 30 d 100/100	m Offset .	5.07 dB 🖷	RBW 100 kHz	Mode A	uto FFT.	opping I	2.480	-7.94 dBm 05000 GHz 57.64 dBm
Ref Le Att SGL Co 1Pk M: 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	rum vel unt ax	20.00 dBi 30 d 100/100	m Offset .	5.07 dB 🖷	RBW 100 kHz	Mode A	uto FFT.	opping I	2.480	-7.94 dBm 05000 GHz 57.64 dBm
Ref Ler           Att           SGL Co           1Pk M.           1D dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -50 dBm	rum vel unt ax	20.00 dBi 30 d 100/100	m Offset B SWT 2	5.07 dB 27.5 μs	RBW 100 KHz	Mode A	2[1]		2.480	-7.94 dBm 05000 GHz 57.64 dBm 56000 GHz
Ref Le Att SGL Co 1Pk M: 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	rum vel unt ax	20.00 dBi 30 d 100/100	m Offset	5.07 dB 27.5 μs	RBW 100 kHz	Mode A	2[1]	opping I	2.480	-7.94 dBm 05000 GHz 57.64 dBm
Ref Ler           Att           SGL Co           1Pk M.           1D dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -50 dBm	rum vel uunt ax	20.00 dBi 30 d 100/100	m Offset B SWT 2	5.07 dB 27.5 μs	RBW 100 KHz	Mode A	2[1]		2.480	-7.94 dBm 05000 GHz 57.64 dBm 56000 GHz
Ref Le Att SGL Co IPk M 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -50 dBm -70 dBm		D1 -27,9;	m Offset B SWT 2	5.07 dB 27.5 μs	RBW 100 KHz YBW 300 kHz	Mode A	2[1]		2.480 2.483	-7.94 dBm 05000 GHz 57.64 dBm 50000 GHz
Ref Let           Att           SGL Co           1Pk M:           1D dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -50 dBm           -50 dBm		D1 -27,9;	m Offset B SWT 2	5.07 dB 27.5 μs	RBW 100 KHz	Mode A	2[1]		2.480 2.483	-7.94 dBm 05000 GHz 57.64 dBm 56000 GHz
Ref Le           Att           SGL Co           1PK M:           10 dBm           10 dBm           10 dBm           20 dBm           -10 dBm           -20 dBm           -30 dBm           -50 dBm           -60 dBm           -70 dBm           Start 2           Tarker           Type		D1 -27,9;	m Offset . B SWT 2	5.07 dB 27.5 μs	RBW 100 kHz YBW 300 kHz	Mode A MI M2 m2 m2 m2 m2 m2 m2 m2 m2 m2 m2 m2 m2 m2	uto FFT [[1] 2[1] ແປງກາ <sup>1</sup> ນາກັນເ	urani fundi n	2.480 2.483	-7.94 dBm 05000 GHz 57.64 dBm 58000 GHz
Ref Le           Att           SGL Co           11Pk M.           10 dBm           10 dBm           -10 dBm           -20 dBm           -30 dBm           -30 dBm           -50 dBm           -50 dBm           -60 dBm           -70 dBm           Start 2           Type           M1		D1 -27.9; 6 GHz	m Offset B SWT 2	5.07 dB 27.5 μs	RBW 100 kHz VBW 300 kHz	Mode A M3 M2 M2 m2 M2 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3	uto FFT [[1] 2[1] ແປງກາ <sup>1</sup> ນາກັນເ	urani fundi n	2.480 2.483	-7.94 dBm 05000 GHz 57.64 dBm 58000 GHz
Ref Le           Att           SGL Cco           SGL Cco           SIPK M.           10 dBm-           10 dBm-           -10 bBm-           -20 dBm-           -30 dBm-           -30 dBm-           -30 dBm-           -50 dBm-           -50 dBm-           -60 dBm-           -70 dBm           Start 2           Natker           M1           M2           M3		20.00 dBi 30 d 100/100 D1 -27,9; 5 GHz f Trc 1 1 1	m Offset	5.07 dB 27.5 μs 27.5	RBW 100 kHz YBW 300 kHz	Mode A MI M2 M2 m2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2	uto FFT [[1] 2[1] ແປງກາ <sup>1</sup> ນາກັນເ	urani fundi n	2.480 2.483	-7.94 dBm 05000 GHz 57.64 dBm 58000 GHz
Ref Le           Att           SGL Cc           SGL Cc           11Pk M.           10 dBm           10 dBm           10 dBm           -10 dBm           -20 dBm           -20 dBm           -30 dBm           -30 dBm           -30 dBm           -30 dBm           -50 dBm           -50 dBm           -50 dBm           -70 dBm           Start 2           Type           M1           M2		20.00 dBi 30 d 100/100 D1 -27.9; 5 GHz 5 GHz 1 1	m Offset	5.07 dB 27.5 μs	RBW 100 kHz VBW 300 kHz	Mode A MI M2 M2 m2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2	uto FFT [[1] 2[1] ແປງກາ <sup>1</sup> ນາກັນເ	urani fundi n	2.480 2.483 www.dhurthurth stop 2	-7.94 dBm 05000 GHz 57.64 dBm 58000 GHz



Ref Le <sup>.</sup> Att		0.00 dBr 30 d .00/100			RBW 100 kHz VBW 300 kHz		to FFT				
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Spectrum Ref Level 2	20.00 dBm 30 dB	Offset 5.0	)7 dB 📦 F	<b>RBW</b> 100 kH	z z <b>Mode</b> A	uto FFT.	lopping	Emissio	
Spectrum Ref Level 2 Att SGL Count 1 1Pk Max	20.00 dBm 30 dB	Offset 5.0	)7 dB 📦 F	<b>RBW</b> 100 kH	z z <b>Mode</b> A		lopping		
Spectrum Ref Level 2 Att SGL Count 1	20.00 dBm 30 dB	Offset 5.0	)7 dB 📦 F	<b>RBW</b> 100 kH	z z Mode A M1	uto FFT.	lopping	2.402	-9.64 dBm 225000 GHz -57.72 dBm
Spectrum Ref Level 2 Att SGL Count 1 1Pk Max	20.00 dBm 30 dB	Offset 5.0	)7 dB 📦 F	<b>RBW</b> 100 kH	z z Mode A M1	uto FFT.	lopping	2.402	-9.64 dBm 225000 GHz 57.72 dBm 1000000 GHz
Spectrum Ref Level 2 Att SGL Count 1 1Pk Max 10 dBm	20.00 dBm 30 dB	Offset 5.0	)7 dB 📦 F	<b>RBW</b> 100 kH	z z Mode A M1	uto FFT.	lopping	2.402	-9.64 dBm 225000 GHz -57.72 dBm
Spectrum Ref Level 2 Att SGL Count 1 1Pk Max 10 dBm 0 dBm -10 dBm	20.00 dBm 30 dB	Offset 5.0	)7 dB 📦 F	<b>RBW</b> 100 kH	z z Mode A M1	uto FFT.	lopping	2.402	-9.64 dBm 225000 GHz 57.72 dBm 1000000 GHz
Spectrum Ref Level 2 Att SGL Count 1 1Pk Max 10 dBm	20.00 dBm 30 dB	Offset 5.0	)7 dB 📦 F	<b>RBW</b> 100 kH	z z Mode A M1	uto FFT.	lopping	2.402	-9.64 dBm 225000 GHz 57.72 dBm 1000000 GHz
Spectrum Ref Level 2 Att SGL Count 1 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm	20.00 dBm 30 dB	Offset 5.0 SWT 227	)7 dB 📦 F	<b>RBW</b> 100 kH	z z Mode A M1	uto FFT.	lopping	2.402	-9.64 dBm 225000 GHz 57.72 dBm 1000000 GHz
Spectrum Ref Level 2 Att SGL Count 1 1Pk Max 10 dBm -10 dBm -20 dBm -30 dBm	20.00 dBm 30 dB 100/100	Offset 5.0 SWT 227	)7 dB 📦 F	<b>RBW</b> 100 kH	z z Mode A M1	uto FFT.	lopping	2.402	-9.64 dBm 225000 GHz 57.72 dBm 1000000 GHz
Spectrum Ref Level 2 Att SGL Count 1 1Pk Max 10 dBm -10 dBm -20 dBm -30 dBm	20.00 dBm 30 dB 100/100	Offset 5.0 SWT 227	)7 dB 📦 F	<b>RBW</b> 100 kH	z z Mode A M1	uto FFT.	lopping	2.402	-9.64 dBm 225000 GHz 57.72 dBm 1000000 GHz
Spectrum Ref Level 2 Att SGL Count 1 1Pk Max 10 dBm 	20.00 dBm 30 dB 100/100	Offset 5.0 SWT 227	D7 dB <b>р р</b>	28 W 100 kH 78 W 300 kH	z Mode A	uto FFT.		2.40	-9.64 dBm 225000 GHz -57.72 dBm 000000 GHz
Spectrum Ref Level 2 Att SGL Count 1 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm	20.00 dBm 30 dB 100/100	Offset 5.0 SWT 227	D7 dB <b>р р</b>	28 W 100 kH 78 W 300 kH	z Mode A	uto FFT.		2.40	-9.64 dBm 225000 GHz -57.72 dBm 000000 GHz
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Spectrum Ref Level 2 Att SGL Count 1 DPk Max 10 dBm 10 dBm 10 dBm 20 dBm 30 dBm 50 dBm 50 dBm	20.00 dBm 30 dB 100/100	Offset 5.C SWT 227	D7 dB <b>р р</b>	28 W 100 kH 78 W 300 kH	z Mode A	uto FFT.		2.40	-9.64 dBm 225000 GHz -57.72 dBm 000000 GHz
Spectrum           Ref Level 2           Att           SGL Count 1           1Pk Max           1D dBm           10 dBm           20 dBm           30 dBm           30 dBm           30 dBm           30 dBm           50 dBm           50 dBm           70 dBm	20.00 dBm 30 dB 100/100	Offset 5.C SWT 227	D7 dB <b>р р</b>	28 100 kH 28 300 kH	Z Mode A	uto FFT.		2.40: 2.400 M3 M3	-9.64 dBm 225000 GHz 57.72 dBm 000000 GHz M1
Spectrum           Ref Level 2           Att           SGL Count 1           1Pk Max           1D dBm           10 dBm           20 dBm           30 dBm           30 dBm           50 dBm	20.00 dBm 30 dB 100/100	Offset 5.C SWT 227	D7 dB <b>р р</b>	28 W 100 kH 78 W 300 kH	Z Mode A	uto FFT.		2.40: 2.400 M3 M3	-9.64 dBm 225000 GHz -57.72 dBm 000000 GHz
Spectrum           Ref Level 2           Att           SGL Count 1           1Pk Max           10 dBm           10 dBm           10 dBm           20 dBm           20 dBm           30 dBm           20 dBm           30 dBm           20 dBm           30 dBm           30 dBm           50 dBm	20.00 dBm 30 dB 100/100 01 -30,603	Offset 5.C SWT 227	D7 dB <b>р р</b>	28 100 kH 28 300 kH	Z Mode A	ULO FFT	- luit d'ager che	2.40: 2.400 M3 M3	-9.64 dBm 225000 GHz -57.72 dBm 000000 GHz M1 M1 M1 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2
Spectrum           Ref Level 2           Att           SGL Count 1           1Pk Max           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -20 dBm           -50 dBm           -50 dBm           -60 dBm           -70 dBm	20.00 dBm 30 dB 100/100 01 ~30,603 01 ~30,603 01 ~50,603 01 ~50,603	Offset 5.0 SWT 227	07 dB F F .5 µs N	100 kH ////////////////////////////////////	Z Mode A	ULO FFT	- luit d'ager che	2.40: 2.400 M3 Arta (4.4) Stop	-9.64 dBm 225000 GHz -57.72 dBm 000000 GHz M1 M1 M1 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2
Spectrum           Ref Level 2           Att           SGL Count 1           1Pk Max           1D dBm           10 dBm           -10 dBm           -20 dBm           -30 dBm           -20 dBm           -30 dBm           -50 dBm           -50 dBm           -60 dBm           -70 dBm           Start 2.306           Type   Ref           M1           M2	20.00 dBm 30 dB 100/100 01 =30,603 01 =30,603 01 = 10,603 01 = 10,603	Offset 5.0 SWT 227	07 dB F F .5 µs N .5 µs N .5 .5 µs N .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5	28 W 100 kH /BW 300 kH ////////////////////////////////////	2 Z Mode A M3 M3 M3 M3 M3 C S M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3	ULO FFT	- luit d'ager che	2.40: 2.400 M3 Arta (4.4) Stop	-9.64 dBm 225000 GHz -57.72 dBm 000000 GHz M1 M1 M1 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2
Spectrum           Ref Level 2           Att           SGL Count 1           1Pk Max           1D dBm           10 dBm           10 dBm           20 dBm           30 dBm           20 dBm           30 dBm           50 dBm           50 dBm           40 dBm           50 dBm           30 dBm           60 dBm           50 dBm           70 dBm           Start 2.306           Narker           Type           M1	20.00 dBm 30 dB 100/100 01 ~30,603 01 ~30,603 01 ~50,603 01 ~50,603	Offset 5.0 SWT 227	07 dB F F .5 µs N .5 µs N .5 .5 µs N .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5	100 kH ////////////////////////////////////	z Mode A	ULO FFT	- luit d'ager che	2.40: 2.400 M3 Arta (4.4) Stop	-9.64 dBm 225000 GHz -57.72 dBm 000000 GHz M1 M1 M1 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2



	dB SWT 10		<b>RBW</b> 100 kH: <b>VBW</b> 300 kH:		uto FFT			
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Band I Spectrum Ref Level 20.00 c Att 30 SGL Count 100/10 1Pk Max	Bm Offset S dB SWT 22	5.07 dB 🖷	15 24801 RBW 100 kH	MHz Ant	Auto FFT.	opping I	Emissio	∩  -7.64 dBm 05000 GHz 58.04 dBm
Band I Spectrum Ref Level 20.00 c Att 30 SGL Count 100/10 01Pk Max 10 dBm 10 dBm	Bm Offset S dB SWT 22	5.07 dB 🖷	15 24801 RBW 100 kH	MHz Ant	Auto FFT.	opping I	Emissio	∩  -7.64 dBm 05000 GHz 58.04 dBm
Band I Spectrum Ref Level 20.00 c Att 30 SGL Count 100/10 1Pk Max	Bm Offset S dB SWT 22	5.07 dB 🖷	15 24801 RBW 100 kH	MHz Ant	Auto FFT.	opping I	Emissio	∩  -7.64 dBm 05000 GHz 58.04 dBm
Band I Spectrum Ref Level 20.00 c Att 30 SGL Count 100/10 11Pk Max 10 dBm 10 dBm 20 dBm	Bm Offset S dB SWT 22	5.07 dB 🖷	15 24801 RBW 100 kH	MHz Ant	Auto FFT.	opping I	Emissio	∩  -7.64 dBm 05000 GHz 58.04 dBm
Band I           Spectrum           Ref Level 20.00 c           Att 30           SGL Count 100/10           DIPK Max           L0 dBm           10 dBm           20 dBm           30 dBm           20 dBm	IBm Offset 5 dB SWT 23	5.07 dB 🖷	15 24801 RBW 100 kH	MHz Ant	Auto FFT.	opping I	Emissio	∩  -7.64 dBm 05000 GHz 58.04 dBm
Band I           Spectrum           Ref Level 20.00 c           Att 30           SGL Count 100/10           1Pk Max           10 dBm           20 cBm           30 dBm           30 dBm           30 dBm	IBm Offset 5 dB SWT 23	5.07 dB 🖷	15 24801 RBW 100 kH	MHz Ant	Auto FFT.	opping I	Emissio	∩  -7.64 dBm 05000 GHz 58.04 dBm
Band I           Spectrum           Ref Level 20.00 c           Att 30           SGL Count 100/10           10 HBM           10 dBm           20 dBm           30 dBm           20 dBm           30 dBm           10 dBm           20 dBm           30 dBm           10 dBm           20 dBm           30 dBm           40 dBm	IBm Offset 5 dB SWT 22 D 420 dBm	5.07 dB 27.5 µs	15 24801 RBW 100 kH VBW 300 kH	MHz Ant	Auto FFT 1[1] 2[1]		2.480 2.483	n -7.64 dBm 05000 GHz 58.04 dBm 50000 GHz
Band I           Spectrum           Ref Level 20.00 c           Att 30           SGL Count 100/100           1Pk Max           0 dBm           10 dBm           20 dBm           30 dBm           30 dBm           30 dBm           40 dBm	IBm Offset 5 dB SWT 22 ) 420 dBm	5.07 dB 27.5 µs	15 24801 RBW 100 kH VBW 300 kH	MHz Ant	Auto FFT 1[1] 2[1]		2.480 2.483	n -7.64 dBm 05000 GHz 58.04 dBm 50000 GHz
Band I           Spectrum           Ref Level 20.00 c           Att 30           SGL Count 100/10           10 HBM           10 dBm           20 dBm           30 dBm           20 dBm           30 dBm           10 dBm           20 dBm           30 dBm           10 dBm           20 dBm           30 dBm           40 dBm	IBm Offset 5 dB SWT 22 D 420 dBm	5.07 dB 27.5 µs	15 24801 RBW 100 kH VBW 300 kH	MHz Ant	Auto FFT 1[1] 2[1]		2.480 2.483	n -7.64 dBm 05000 GHz 58.04 dBm 50000 GHz
Band I           Spectrum           Ref Level 20.00 c           Att 30           SGL Count 100/10           10 dBm           10 dBm           20 dBm           30 dBm           20 dBm           50 dBm           50 dBm           50 dBm           50 dBm	IBm Offset 5 dB SWT 22 D 420 dBm	5.07 dB 27.5 µs	15 24801 RBW 100 kH VBW 300 kH	MHz Ant	Auto FFT 1[1] 2[1]		2.480 2.483	n -7.64 dBm 05000 GHz 58.04 dBm 50000 GHz
Band I           Spectrum           Ref Level 20.00 c           Att 30           SGL Count 100/10           D1Pk Max           10 dBm           20 dBm           30 dBm           10 dBm           20 dBm           30 dBm           50 dBm	IBm Offset 5 dB SWT 22 D 420 dBm	5.07 dB 27.5 µs	15 24801 RBW 100 kH VBW 300 kH	MHz Ant	Auto FFT 1[1] 2[1]		2.480 2.483	n -7.64 dBm 05000 GHz 58.04 dBm 50000 GHz
Band I           Spectrum           Ref Level 20.00 c           Att 30           SGL Count 100/10           11Pk Max           10 dBm           20 dBm           20 dBm           30 dBm           70 dBm           70 dBm           3tart 2.476 GHz	Bm Offset 5 dB SWT 22 ) 420 dBm- 420 dBm-	5.07 dB 27.5 µs	H5 24801	MHz Ant	Auto FF T 1[1] 2[1]	من بالار بع	Emissio 2.480 2.483	П 
Band I           Spectrum           Ref Level 20.00 c           Att 30           SGL Count 100/10           10 dBm           10 dBm           20 dBm           30 dBm           10 dBm           20 dBm           30 dBm           10 dBm           20 dBm           30 dBm           50 dBm           50 dBm           50 dBm           50 dBm           50 dBm           50 dBm           51 dBm           52 dBm           54 dBm           55 dBm           56 dBm           57 dBm           58 dBm           50 dBm           50 dBm           51 dBm           52 dBm           53 dBm           54 dBm           55 dBm           56 dBm           57 dBm           58 dBm           59 dBm           50 dBm           50 dBm           51 dBm           52 dBm           53 dBm           54 dBm           55 dBm           56 dBm	Antipatric and a second	5.07 dB 27.5 µs 4.1.4/м <sup>4</sup> , мул 55 GHz	15 24801 RBW 100 kF VBW 300 kF 	MHz Ant	Auto FF T 1[1] 2[1]	من بالار بع	2.480 2.483	П 
Band I           Spectrum           Ref Level 20.00 c           Att 30           SGL Count 100/10           D1Pk Max           0 dBm           10 dBm           20 dBm           30 dBm           30 dBm           20 dBm           30 dBm           50 dBm           70 dBm           30 dBm           30 dBm           70 dBm           30 dBm           30 dBm           70 dBm           30 dBm           30 dBm           30 dBm           30 dBm           30 dBm           30 dBm	Bm Offset 5 dB SWT 22 	5.07 dB 27.5 µs 4	H5 24801	MHz Ant	Auto FF T 1[1] 2[1]	من بالار بع	Emissio 2.480 2.483	П 
Band I           Spectrum           Ref Level 20.00 c           Att 30           SGL Count 100/10           10 dBm           10 dBm           20 dBm           30 dBm           10 dBm           20 dBm           30 dBm           10 dBm           20 dBm           30 dBm           50 dBm           50 dBm           50 dBm           50 dBm           50 dBm           50 dBm           51 dBm           52 dBm           54 dBm           55 dBm           56 dBm           57 dBm           58 dBm           50 dBm           50 dBm           51 dBm           52 dBm           53 dBm           54 dBm           55 dBm           56 dBm           57 dBm           58 dBm           59 dBm           50 dBm           50 dBm           51 dBm           52 dBm           53 dBm           54 dBm           55 dBm           56 dBm	Bm Offset 5 dB SWT 22 3 420 dBm 420 dBm M3 attyingtor aparticle 2.480 2.480 2.480 2.480	5.07 dB 27.5 µs 4.1.4/м <sup>4</sup> , мул 55 GHz	15 24801 RBW 100 kF VBW 300 kF 	MHz Ant	Auto FF T 1[1] 2[1]	من بالار بع	Emissio 2.480 2.483	П 



## NTEK 北测

## 8.8 BAND EDGE(HOPPING)

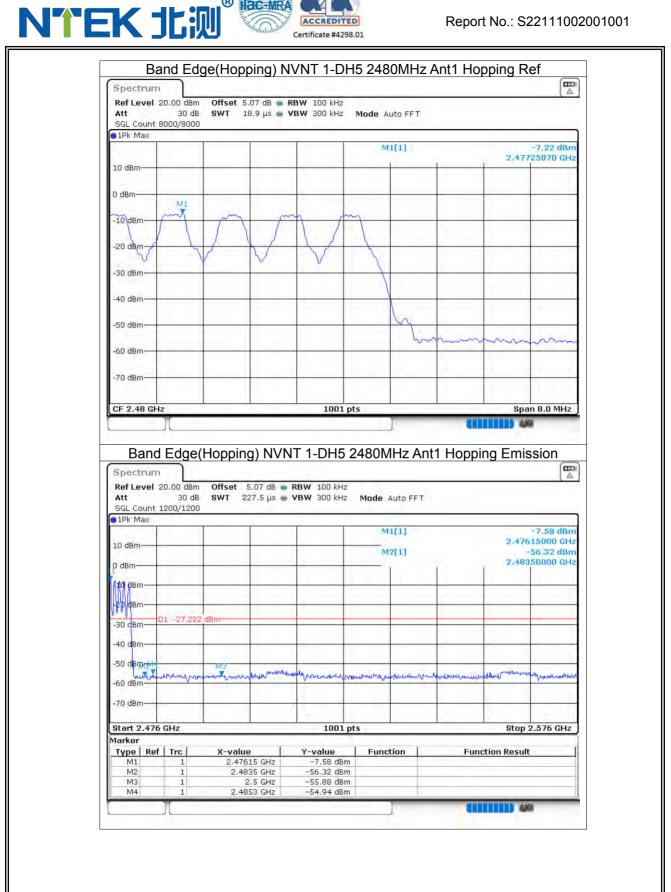
0.0 BANDEL							
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-46.06	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-47.72	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-45.21	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-47.01	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-43.13	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-47.63	-20	Pass

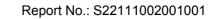


		ge(nop	Jing) N	IVNT 1-DH	15 24021		Topping	
Att	n 20.00 dBm 30 dB 8000/8000	SWT 1		RBW 100 kHz VBW 300 kHz	Mode Auto	FFT		
1Pk Max				-				
					M1[1]	1		-6,81 dBm 0424580 GHz
10 dBm						-	2.4	J+2+360 GH2
0 dBm						-	M1	
-10 dBm			-	T /T	T	$\frac{1}{2}$		
-20 dBm	-					$\neg$		$\mathbf{V}$
-30 dBm					*			
-40 dBm				+/				
-50 dBm								
-60 dBm-	mm	mm	m					
-70 dBm—							_	
CF 2.402	GHz			1001 p	pts		S	an 8.0 MHz
Ban		Hopping	g) NVN	NT 1-DH5	2402MH	z Ant1 Ho	opping Em	ission
Spectrur Ref Level Att	n 20.00 dBm 30 dB	Offset S SWT 22	5.07 dB 🖷	NT 1-DH5 RBW 100 kHz VBW 300 kHz				
Spectrur Ref Level Att	n 20.00 dBm	Offset S SWT 22	5.07 dB 🖷	RBW 100 kHz				
Spectrur Ref Level Att SGL Count 1Pk Max	n 20.00 dBm 30 dB	Offset S SWT 22	5.07 dB 🖷	RBW 100 kHz		) FFT.		-6.86 dBm
Spectrur Ref Level Att SGL Count 1Pk Max	n 20.00 dBm 30 dB	Offset S SWT 22	5.07 dB 🖷	RBW 100 kHz	Mode Auto	) FFT.	2.4	-6.86 dBm 0325000 GHz -56.79 dBm
Spectrur Ref Level Att SGL Count 1Pk Max 10 dBm	n 20.00 dBm 30 dB	Offset S SWT 22	5.07 dB 🖷	RBW 100 kHz	Mode Auto	) FFT.	2.4	-6.86 dBm 0325000 GHz -56.79 dBm 0406000 GH2 Mi
Spectrur Ref Level Att SGL Count 1Pk Max	n 20.00 dBm 30 dB	Offset S SWT 22	5.07 dB 🖷	RBW 100 kHz	Mode Auto	) FFT.	2.4	-6.86 dBm 0325000 GHz -56.79 dBm 0000000 GHz M1
Spectrur Ref Level Att SGL Count 1Pk Max 10 dBm	n 20.00 dBm 30 dB : 1200/1200	Offset 5 SWT 22	5.07 dB 🖷	RBW 100 kHz	Mode Auto	) FFT.	2.4	-6.86 dBm 0325000 GHz -56.79 dBm 0406000 GH2 Mi
Spectrur Ref Level Att SGL Count IPk Max 1D dBm 0 dBm -10 dBm	n 20.00 dBm 30 dB	Offset 5 SWT 22	5.07 dB 🖷	RBW 100 kHz	Mode Auto	) FFT.	2.4	-6.86 dBm 0325000 GHz -56.79 dBm 0000000 GHz
Spectrur Ref Level Att SGL Count 1Pk Max 10 dBm- -10 dBm- -20 dBm-	n 20.00 dBm 30 dB : 1200/1200	Offset 5 SWT 22	5.07 dB 🖷	RBW 100 kHz	Mode Auto	) FFT.	2.4	-6.86 dBm 0325000 GHz -56.79 dBm 0000000 GHz
Spectrur Ref Level Att SGL Count 1Pk Max 10 dBm- -10 dBm- -20 dBm- -30 dBm-	n 20.00 dBm 30 dB : 1200/1200	Offset 5 SWT 22	5.07 dB 27.5 µs	RBW 100 kHz VBW 300 kHz	Mode Auto	) FFT.	2.4	-6.86 dBm 0325000 GHz -56.79 dBm 000000 GHz
Spectrur Ref Level Att SGL Count 10 dBm- 0 dBm- -10 dBm- -20 dBm- -30 dBm- -40 dBm-	n 20.00 dBm 30 dB : 1200/1200	Offset 5 SWT 22	5.07 dB 🖷	RBW 100 kHz VBW 300 kHz	Mode Auto	) FFT.	2.4	-6.86 dBm 0325000 GHz -56.79 dBm 000000 GHz M1
Spectrur Ref Level Att SGL Count 10 dBm- 0 dBm- -10 dBm- -20 dBm- -30 dBm- -30 dBm- -30 dBm- -30 dBm- -40 dBm- -50 dBm-	n 20.00 dBm 30 dB 1200/1200	Offset 5 SWT 23	5.07 dB 27.5 µs	RBW 100 kHz VBW 300 kHz	Mode Auto	) FFT.	2.4	-6.86 dBm 0325000 GHz -56.79 dBm 000000 GHz M1
Spectrur Ref Level Att SGL Count 10 dBm- 0 dBm- -10 dBm- -20 dBm- -30 dBm- -30 dBm- -50 dBm- -70 dBm-	n 20.00 dBm 30 dB 1200/1200	Offset 5 SWT 23	5.07 dB 27.5 µs	RBW         100 kHz           VBW         300 kHz	Mode Auto	) FFT.	2.41 2.41	-6.86 dBm 3325000 GHz -56.79 dBm 3000000 GHz 
Spectrur Ref Level Att SGL Count • 1Pk Max 10 dBm - 10 dBm - 20 dBm - 20 dBm - 30 dBm - 40 dBm - 50 dBm - 70 dBm - 70 dBm - 70 dBm - 70 dBm	n 20.00 dBm 30 dB 1200/1200	Offset 5 SWT 22	5.07 dB 27.5 µs	RBW 100 kHz VBW 300 kHz	Mode Auto	9 FFT	2.41 2.41 	-6.86 dBm 0325000 GHz -56.79 dBm 0006000 GHz - 
Spectrur Ref Level Att SGL Count 10 dBm 10 dBm -10 dBm -20 dBm -20 dBm -20 dBm -30 dBm -30 dBm -70	n 20.00 dBm 30 dB 1200/1200	Offset 5 SWT 22	5.07 dB 27.5 µs	RBW 100 kHz VBW 300 kHz	Mode Auto	9 FFT	2.41 2.41	-6.86 dBm 0325000 GHz -56.79 dBm 0006000 GHz - 
Spectrur           Ref Level           Att           SGL Count           10 dBm           10 dBm           -10 dBm           -20 dBm           -20 dBm           -30 dBm           -30 dBm           -50 dBm           -70 dBm           Start 2.30           Marker           Type           M2	n 20.00 dBm 30 dB 1200/1200	Offset 8 SWT 22	5.07 dB 27.5 µs	RBW 100 kHz VBW 300 kHz	Mode Auto	9 FFT	2.41 2.41 	-6.86 dBm 0325000 GHz -56.79 dBm 0006000 GHz - 
Spectrur           Ref Level           Att           SGL Count           • 1Pk Max           10 dBm           0 dBm           -10 dBm           -20 dBm           -20 dBm           -30 dBm           -30 dBm           -50 dBm           -50 dBm           -70 dBm           Start 2.30           Marker           Type Res           M1	n 20.00 dBm 30 dB 1200/1200	Offset 8 SWT 22 dBm dBm xvolution	5.07 dB 27.5 µs	RBW 100 kHz VBW 300 kHz	Mode Auto	9 FFT	2.41 2.41 	-6.86 dBm 0325000 GHz -56.79 dBm 0006000 GHz - 



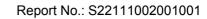
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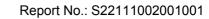
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Spectrun									
Att	20.00 dBm 30 dB 8000/8000			RBW 100 kHz YBW 300 kHz	Mode Au	ito FFT			
1Pk Max	2020/0000			-					
					MI	[1]		2 400	-7,39 dBm
10 dBm	_							2,402	211190 GHz
) dBm				M			-	-	
-10 dBm				2	ĥ	A	0.00	in	
TO GDM				m	m	~ vy	MAN	han	www.
-20 dBm						_	_	-	
5.2.0									1
-30 dBm	1							1	
40 dBm-							-		
-			1	n l					
-50 dBm	1	-	M						
-60 dBm-	m	man	~						
-70 dBm	-	-		-	-		_		
					· · · · · ·	_		1	1
CF 2.402 (	GHz			1001 p	ts		_	Spa	an 8.0 MHz
Spectrur	n			IT 2-DH5 :	2402M	Hz Ant1	Hoppin	ng Emis	ssion
Spectrur Ref Level Att	n 20.00 dBm 30 dB	Offset 5	.07 dB 🖷	IT 2-DH5		Hz Ant1	Hoppin	ng Emi	
Spectrun Ref Level Att SGL Count	n 20.00 dBm	Offset 5	.07 dB 🖷	RBW 100 kHz	Mode A	uto FFT	Hoppin	ng Emis	
Spectrun Ref Level Att SGL Count 1Pk Max	n 20.00 dBm 30 dB	Offset 5	.07 dB 🖷	RBW 100 kHz	Mode A		Hoppin		-9.82 dBm
Spectrun Ref Level Att SGL Count 1Pk Max	n 20.00 dBm 30 dB	Offset 5	.07 dB 🖷	RBW 100 kHz	Mode A	uto FFT	Hoppin	2.402	-9.82 dBm 205000 GHz -55.78 dBm
Spectrur Ref Level Att	n 20.00 dBm 30 dB	Offset 5	.07 dB 🖷	RBW 100 kHz	Mode A	uto FFT.	Hoppin	2.402	-9.82 dBm 205000 GHz
Spectrun Ref Level Att SGL Count IPk Max IPk Max	n 20.00 dBm 30 dB	Offset 5	.07 dB 🖷	RBW 100 kHz	Mode A	uto FFT.	Hoppin	2.402	-9,82 dBm 205000 GHz 55.78 dBm 200000 GHz
Spectrun Ref Level Att SGL Count IPk Max ID dBm	n 20.00 dBm 30 dB	Offset 5	.07 dB 🖷	RBW 100 kHz	Mode A	uto FFT.	Hoppin	2.402	-9.82 dBm 205000 GHz 55.78 dBm 200000 GHz M1
Spectrum Ref Level Att SGL Count I OdBm OdBm OdBm 10 dBm 20 dBm	n 20.00 dBm 30 dB	Offset 5 SWT 22	.07 dB 🖷	RBW 100 kHz	Mode A	uto FFT.	Hoppin	2.402	-9.82 dBm 205000 GHz 55.78 dBm 200000 GHz M1
Spectrum Ref Level Att SGL Count 1Pk Max 10 dBm 10 dBm 10 dBm 20 dBm 30 dBm	n 20.00 dBm 30 dB 1200/1200	Offset 5 SWT 22	.07 dB 🖷	RBW 100 kHz	Mode A	uto FFT.	Hoppin	2.402	-9.82 dBm 205000 GHz 55.78 dBm 200000 GHz M1
Spectrum Ref Level Att SGL Count 11Pk Max 10 dBm 10 dBm 20 dBm 30 dBm 40 dBm	n 20.00 dBm 30 dB 1200/1200	Offset 5 SWT 22	.07 dB 7.5 μs 	RBW 100 kHz	Mode A	uto FFT.	Hoppin	2.402	-9.82 dBm 205000 GHz 55.78 dBm 200000 GHz M1
Spectrum Ref Level Att SGL Count 1Pk Max 10 dBm- 10 dBm- 20 dBm- 30 dBm- 30 dBm- 50 dBm- 50 dBm-	n 20.00 dBm 30 dB 1200/1200	Offset 5 SWT 22	.07 dB 7.5 μs	RBW 100 kHz VBW 300 kHz	Mode A M1 M2	uto FFT [1] 2[1]		2.400 2.400	-9.82 dBm 205000 GHz 55.78 dBm 200000 GHz M1
Spectrun Ref Level Att SGL Count 1Pk Max 10 dBm	n 20.00 dBm 30 dB 1200/1200	Offset 5 SWT 22	.07 dB 7.5 μs 	RBW 100 kHz VBW 300 kHz	Mode A M1 M2	uto FFT.		2.400	-9.82 dBm 205000 GHz 55.78 dBm 100000 GHz M1
Spectrum Ref Level Att SGL Count 11Pk Max 10 dBm	n 20.00 dBm 30 dB 1200/1200	Offset 5 SWT 22	.07 dB 7.5 μs 	RBW 100 kHz VBW 300 kHz	Mode A M1 M2	uto FFT [1] 2[1]		2.400 2.400	-9.82 dBm 205000 GHz 55.78 dBm 000000 GHz M1
Spectrum Ref Level Att SGL Count IPK Max ID dBm 10 dBm 10 dBm 20 dBm 30 dBm 40 dBm 50 dBm 50 dBm 70 dBm 70 dBm	n 20.00 dBm 30 dB 1200/1200	Offset 5 SWT 22	.07 dB 7.5 μs 	RBW 100 kHz VBW 300 kHz	Mode A	uto FFT [1] 2[1]		2.400 2.400	-9.82 dBm 205000 GHz 55.78 dBm 000000 GHz M1
Spectrum           Ref Level           Att           SGL Count           1Pk Max           10 dBm           0 dBm           20 dBm           30 dBm           30 dBm           50 dBm           50 dBm           70 dBm           70 dBm           31 dBm	n 20.00 dBm 30 dB 1200/1200 01 -27.387	Offset 5 SWT 22	.07 dB 7.5 µs	RBW 100 kHz	Mode A M1 M2	uto FFT [1] 2[1]	whether well preserved	2.400 2.400	-9.82 dBm 205000 GHz 55.78 dBm 000000 GHz M1 M1 M1 M1 M2 2.406 GHz
Spectrum           Ref Level           Att           SGL Count           1Pk Max           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -50 dBm           -50 dBm           -70 dBm           -70 dBm           Start 2.30           Type   Re	n 20.00 dBm 30 dB 1200/1200 	Offset 5 SWT 22	.07 dВ 7.5 µs М4	RBW 100 kHz VBW 300 kHz	Mode A MI M2 M2 M2 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3	uto FFT [1] 2[1]	whether well preserved	2.400 2.400	-9.82 dBm 205000 GHz 55.78 dBm 000000 GHz M1 M1 M1 M1 M2 2.406 GHz
Spectrum           Ref Level           Att           SGL Count           1Pk Max           10 dBm           -0 dBm           -10 dBm           -20 dBm           -30 dBm           -30 dBm           -50 dBm           -50 dBm           -50 dBm           -60 dBm           -70 dBm           Start 2.30           Type R           M1           M2	n 20.00 dBm 30 dB 1200/1200 	Offset 5 SWT 22	.07 dB 7.5 μs 	RBW 100 kHz VBW 300 kHz 	Mode A M1 M2	uto FFT [1] 2[1]	whether well preserved	2.400 2.400	-9.82 dBm 205000 GHz 55.78 dBm 000000 GHz M1 M1 M1 M1 M2 2.406 GHz
Spectrum           Ref Level           Att           SGL Count           IPK Max           IO dBm           10 dBm           20 dBm           30 dBm           30 dBm           50 dBm           70 dBm           Start 2.30           Darker           M1	n 20.00 dBm 30 dB 1200/1200	Offset 5 SWT 22	.07 dB	RBW 100 kHz VBW 300 kHz	Mode A	uto FFT [1] 2[1]	whether well preserved	2.400 2.400	-9.82 dBm 205000 GHz 55.78 dBm 000000 GHz M1 M1 M1 M1 M2 2.406 GHz



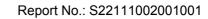
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Ref Lev Att		0.00 dBn 30 dl 000/800	SWT 1		RBW 100 kHz YBW 300 kHz	Mode Auto	FFT			
1Pk Ma			1		<i>i</i> – i	MIL			_	-7.95 dBm
10.45						mill	4		2.476	08390 GHz
10 dBm-										
0 dBm—	-	-						-		
10 dBm	_	-	1000		h					
Arch	M		m	m	mon	m				
-20 dBm						1				
-30 dBm	-	_		-						
in dra							1111	11	1	1.227
-40 dBm						1				
-50 dBm			-				Ma	1.7		
-60 dBm							V V	n	mm	min
-70 dBm										
CF 2.48	CUID	_			1001 p	+-			- Coo	n 8.0 MHz
Spectr	um				NT 2-DH5 2		lz Ant1	<b>H</b> oppin	ng Emis	8
Spectr Ref Lev Att	um el 20	Edge	Offset SWT 2	5.07 dB 🖷		] 2480MH		Hoppin	ng Emis	ssion
Spectr Ref Lev Att	um el 20 unt 12	0.00 dBr 30 dI	Offset SWT 2	5.07 dB 🖷	NT 2-DH5 2	2480MH Mode Aut	O FFT	Hoppin	ng Emis	ssion
Spectr Ref Lev Att SGL Co	um el 20 unt 12	0.00 dBr 30 dI	Offset SWT 2	5.07 dB 🖷	NT 2-DH5 2	2480MH Mode Aut	o FFT.	Hoppin	2.476	-9.26 dBm 15000 GHz
Spectr Ref Lev Att SGL Col 1Pk Ma	um el 20 unt 12	0.00 dBr 30 dI	Offset SWT 2	5.07 dB 🖷	NT 2-DH5 2	2480MH Mode Aut	o FFT.	Hoppin	2.476	-9,26 dBm
Spectr Ref Lev Att SGL Cou 1Pk Ma 10 dBm- 0 dBm-	um el 20 unt 12 x	0.00 dBr 30 dI	Offset SWT 2	5.07 dB 🖷	NT 2-DH5 2	2480MH Mode Aut	o FFT.	Hoppin	2.476	-9.26 dBm 15000 GHz 56.11 dBm
Spectr Ref Lev Att SGL Col 1Pk Ma 10 dBm-	um rel 20 unt 12 x	0.00 dBr 30 dI	Offset SWT 2	5.07 dB 🖷	NT 2-DH5 2	2480MH Mode Aut	o FFT.	Hoppin	2.476	-9.26 dBm 15000 GHz 56.11 dBm
Spectr Ref Lev SGL Cor 1Pk Ma 10 dBm- 0 dBm- 1 10 dBm-	um el 20 unt 12 x	0.00 dBr 30 dI	n Offset . 3 SWT 2 3	5.07 dB 🖷	NT 2-DH5 2	2480MH Mode Aut	o FFT.	Hoppin	2.476	-9.26 dBm 15000 GHz 56.11 dBm
Spectr Ref Lev Att SGL Col 1Pk Ma 10 dBm- 0 dBm- -20 dBm -30 dBm	um rel 20 unt 12 x	0.00 dBr 30 di 200/120	n Offset . 3 SWT 2 3	5.07 dB 🖷	NT 2-DH5 2	2480MH Mode Aut	o FFT.	Hoppin	2.476	-9.26 dBm 15000 GHz 56.11 dBm
Spectr Ref Lev Att SGL Coo 1Pk Ma 10 dBm- 10 dBm- 10 dBm- -20 dBm -30 dBm	um rel 20 unt 12 x	0.00 dBr 30 di 200/120	n Offset . 3 SWT 2 3	5.07 dB 🖷	NT 2-DH5 2	2480MH Mode Aut	o FFT.	Hoppin	2.476	-9.26 dBm 15000 GHz 56.11 dBm
Spectr Ref Lev SGL Co 1Pk Ma 10 dBm- 0 dBm- 10 dBm- 10 dBm- 30 dBm -30 dBm -30 dBm	um rel 20 unt 12 x	0.00 dBr 30 di 200/120	o Offset	5.07 dB 🖷	NT 2-DH5 2 RBW 100 kHz YBW 300 kHz	2480MH Mode Aut M1[1 	0 FFT.	Hoppin	2.476	-9.26 dBm 15000 GHz 56.11 dBm 50000 GHz
Spectr Ref Lev 3 (1) 3 (1) 3 (1) 4 (	um rel 20 unt 12 x	0.00 dBr 30 di 200/120	o Offset	5.07 dB 27.5 μs	NT 2-DH5 2 RBW 100 kHz YBW 300 kHz	2480MH Mode Aut M1[1 	0 FFT.		2.476	-9.26 dBm 15000 GHz 56.11 dBm 56000 GHz
Spectr Ref Lev 3 (1) 3 (1) 3 (1) 4 (	um rel 20 unt 12 x	0.00 dBr 30 di 200/120	o Offset	5.07 dB 27.5 μs	NT 2-DH5 2 RBW 100 kHz YBW 300 kHz	2480MH Mode Aut M1[1 	0 FFT.		2.476 2.483	-9.26 dBm 15000 GHz 56.11 dBm 50000 GHz
Spectr Ref Lev Att SGL Cou 1Pk Ma 10 dBm- 0 dBm- -20 dBm -30 dBm -30 dBm -40 dBm -50 dBm -70 dBm -70 dBm	um el 20 unt 12 X	0.00 dBm 30 di 200/120	o Offset	5.07 dB 27.5 μs	NT 2-DH5 2 RBW 100 kHz YBW 300 kHz	2480MH Mode Aut M1[] M2[1	0 FFT.		2.476 2.483	-9.26 dBm 15000 GHz 56.11 dBm 56000 GHz
Spectr Ref Lex SGL Cou 1Pk Ma 10 dBm- 0 dBm- -20 dBm -20 dBm -30 dBm -30 dBm -50 dBm -50 dBm -70 dBm -70 dBm <b>Start 2.</b> <b>Marker</b> <b>Type</b>	um vel 20 x 0 0	0.00 dBn 30 di 200/120 1 -27,95 Maria Maria SHz Trc	0 dBm	5.07 dB 27.5 μs	NT 2-DH5 2 RBW 100 kHz VBW 300 kHz 	2480MH Mode Aut M1[] M2[1	o FFT	which is for a south	2.476 2.483	-9.26 dBm 15000 GHz 56.11 dBm 50000 GHz
Spectr Ref Lex 3GL Cou 1Pk Ma 10 dBm- 10 dBm- 1 -20 dBm -30 dBm -30 dBm -30 dBm -30 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm	um vel 20 x 0 0	0.00 dBm 30 dl 200/120 1 -27,95 1 -27,95 Microsoft GHz Trc 1 1	D dBm	5.07 dB 27.5 μs 27.5	NT 2-DH5 2 RBW 100 kHz YBW 300 kHz	2480MH	o FFT	which is for a south	2.476 2.483 	-9.26 dBm 15000 GHz 56.11 dBm 50000 GHz
Spectr Ref Lex 3GL Con 1Pk Ma 10 dBm- 0 dBm- 10 dBm- 20 dBm -20 dBm -30 dBm -30 dBm -30 dBm -70 dBm -70 dBm Start 2. Marker Type M1	um vel 20 x 0 0	0.00 dBr 30 dl 200/120 1 -27.95 1 -27.95 GHz GHz 1	0 Offset 3 SWT 2 0 0 dBm 0 dBm X-value 2.476 2.476 2.476	5.07 dB 27.5 μs	NT 2-DH5 2 RBW 100 kHz YBW 300 kHz VBW 30	2480MH	o FFT	which is for a south	2.476 2.483 	-9.26 dBm 15000 GHz 56.11 dBm 50000 GHz



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-20 dBm				pro-	and D	V.	have	WV	And Mark
LU UDIII									
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-40 dBm									
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-70 dBm	-			-					
CF 2.402				1001		_			an 8.0 MHz
Spectrur	n			NT 3-DH5		IHz Ant	t1 Hoppi	ng Emi	ssion
Spectrur Ref Level Att	n 20.00 dBr 30 dl	n Offset 5 3 SWT 22	.07 dB 🍙	NT 3-DH5 RBW 100 kH2 VBW 300 kH2	z	IHz Ant	t1 Hoppin	ng Emi	
Spectrur Ref Level Att SGL Count	n 20.00 dBr	n Offset 5 3 SWT 22	.07 dB 🍙	RBW 100 kHz	z z <b>Mode</b> /	Auto FFT.	t1 Hoppin		
Spectrur Ref Level Att SGL Count 1Pk Max	n 20.00 dBr 30 dl	n Offset 5 3 SWT 22	.07 dB 🍙	RBW 100 kHz	z z <b>Mode</b> /		t1 Hoppin		
Spectrur Ref Level Att SGL Count 1Pk Max	n 20.00 dBr 30 dl	n Offset 5 3 SWT 22	.07 dB 🍙	RBW 100 kHz	z Mode /	Auto FFT.	t1 Hoppin	2.40	-10.70 dBm 205000 GHz -56.73 dBm
Spectrur Ref Level Att SGL Count 1Pk Max 1Pk Max 10 dBm	n 20.00 dBr 30 dl	n Offset 5 3 SWT 22	.07 dB 🍙	RBW 100 kHz	z Mode /	Auto FFT.	t1 Hoppin	2.40	-10.70 dBm 205000 GHz
Spectrur Ref Level Att SGL Count 1Pk Max 1Pk Max 10 dBm	n 20.00 dBr 30 dl	n Offset 5 3 SWT 22	.07 dB 🍙	RBW 100 kHz	z Mode /	Auto FFT.		2.40	-10.70 dBm 205000 GHz -56.73 dBm 000000 GHz
Spectrur Ref Level Att SGL Count 1Pk Max 1D dBm- 0 dBm- -10 dBm-	n 20.00 dBr 30 dl	n Offset 5 3 SWT 22	.07 dB 🍙	RBW 100 kHz	z Mode /	Auto FFT.	t1 Hoppin	2.40	-10.70 dBm 205000 GHz -56.73 dBm 000000 GHz MI
Spectrur Ref Level Att SGL Cound 1Pk Max 1Pk Max 10 dBm	n 20.00 dBr 30 dl	n Offset 5 3 SWT 22 3	.07 dB 🍙	RBW 100 kHz	z Mode /	Auto FFT.		2.40	-10.70 dBm 205000 GHz -56.73 dBm 000000 GHz MI
Spectrur Ref Level Att SGL Count 1Pk Max 10 dBm- -10 dBm- -20 dBm- -30 dBm-	n 20.00 dBn 30 di t 1200/120	n Offset 5 3 SWT 22 3	.07 dB 🍙	RBW 100 kHz	z Mode /	Auto FFT.	t1 Hoppin	2.40	-10.70 dBm 205000 GHz -56.73 dBm 000000 GHz MI
Spectrur Ref Level Att SGL Couni 1Pk Max 1Pk Max 10 dBm	n 20.00 dBn 30 di t 1200/120	n Offset 5 3 SWT 22 3	.07 dB .7.5 µs	RBW 100 kHz VBW 300 kHz	z Mode /	Auto FFT.		2.40	-10.70 dBm 205000 GHz -56.73 dBm 000000 GHz M1 MMM
Spectrur Ref Level Att SGL Couni 1Pk Max 10 dBm	n 20.00 dBn 30 di t 1200/120	D dBm	.07 dB 🍙	RBW 100 kHz VBW 300 kHz	Z Mode / M M	Auto FFT.		2.40 2.40	-10.70 dBm 205000 GHz -56.73 dBm 006000 GHz M1
Spectrur Ref Level Att SGL Couni 1Pk Max 10 dBm	n 20.00 dBn 30 di t 1200/120	D dBm	.07 dB .7.5 µs	RBW 100 kHz VBW 300 kHz	Z Mode / M M	Auto FFT.		2.40 2.40	-10.70 dBm 205000 GHz -56.73 dBm 006000 GHz M1
Spectrur Ref Level Att SGL Count 1Pk Max 10 dBm- -10 dBm- -20 dBm- -30 dBm- -50 dBm- -50 dBm- -70 dBm-	n 20.00 dBr 30 dl 1200/120	D dBm	.07 dB .7.5 µs	RBW 100 kHz VBW 300 kHz	2 Mode / M M	Auto FFT.		2.40 2.40 M3 of http://www.ordu	-10,70 dBm 205000 GHz -56,73 dBm 000000 GHz M3 WWW
Spectrur Ref Level Att SGL Count 1Pk Max 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm -70 dBm -70 dBm	n 20.00 dBr 30 dl 1200/120	D dBm	.07 dB .7.5 µs	RBW 100 kHz VBW 300 kHz	2 Mode / M M	Auto FFT.		2.40 2.40 M3 of http://www.ordu	-10.70 dBm 205000 GHz -56.73 dBm 006000 GHz M1
Spectrur           Ref Level           Att           SGL Cound           1Pk Max           10 dBm           -10 dBm           -20 dBm           -30 dBm           -50 dBm           -60 dBm           -70 dBm           Start 2.300           darker           Type	n 20.00 dBn 30 di 1200/120	D dBm	.07 dB 7.5 µs	RBW 100 kHz YBW 300 kHz 100	2 Mode / M M m m m m m m m m m m m m m m m m m	Auto FFT		2.40 2.40 M3 of http://www.ordu	-10.70 dBm 205000 GHz -56.73 dBm 000000 GHz M1 MW M2 M2 M2 2.406 GHz
Spectrur Ref Level Att SGL Couni 1Pk Max 10 dBm	n 20.00 dBn 30 di t 1200/120 = 01 -29.38 00	0 Offset 5 3 SWT 22 0 0 dBm 0 dBm 0 dBm 0 dBm 2 402c 2.402c 2.402c 2.2	.07 dB 7.5 µs	RBW 100 kHz VBW 300 kHz 100 kHz N4 M4 1001	2 Mode / M M m m pub.rus.stch,m pts Func m	Auto FFT		2.40 2.40 M3 Anri Jaconski	-10.70 dBm 205000 GHz -56.73 dBm 000000 GHz M1 MW M2 M2 M2 2.406 GHz





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Att	20.00 dBm 30 dB 8000/8000	SWT 1		RBW 100 kHz VBW 300 kHz		to FFT			
1Pk Max	ŕ			10					
10 dBm					MI	[1]		2.476	-7.08 dBm 25170 GHz
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- sal	Le m	Y ····································	-VV	1 more	m				
-20 dBm									· · · · · · · · · · · · · · · · · · ·
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-00 0611									
-70 dBm	(	-							
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CF 2.48 G	17			1001	nte			Spa	n 8.0 MHz
		(Hoppin	g) NVI	NT 3-DH5	)	Hz Ant1	Hoppir		ssion
Spectrur Ref Level Att	d Edge n 20.00 dBm 30 dB	Offset S SWT 23	5.07 dB 🖷		2480M		Hoppir		8
Spectrur Ref Level Att	d Edge	Offset S SWT 23	5.07 dB 🖷	NT 3-DH5 RBW 100 kHz	2480M 2 2 Mode A	uto FFT	uu Hoppir		ssion
Spectrur Ref Level Att SGL Count 1Pk Max	d Edge n 20.00 dBm 30 dB	Offset S SWT 23	5.07 dB 🖷	NT 3-DH5 RBW 100 kHz	2480M 2 2 Mode A		Hoppir	ng Emis	ssion
Spectrur Ref Level Att SGL Count 1Pk Max	d Edge n 20.00 dBm 30 dB	Offset S SWT 23	5.07 dB 🖷	NT 3-DH5 RBW 100 kHz	2480M 2 Mode A M1	uto FFT	Hoppir	ng Emis 2.477	-7.34 dBm 05000 GHz 56.64 dBm
Spectrur Ref Level Att SGL Count 1Pk Max 1Pk Max	d Edge n 20.00 dBm 30 dB	Offset S SWT 23	5.07 dB 🖷	NT 3-DH5 RBW 100 kHz	2480M 2 Mode A M1	uto FFT.	Hoppir	ng Emis 2.477	-7.34 dBm
Spectrur Ref Level Att SGL Count 1Pk Max 1D dBm- D dBm- 10 dBm-	d Edge n 20.00 dBm 30 dB	Offset S SWT 23	5.07 dB 🖷	NT 3-DH5 RBW 100 kHz	2480M 2 Mode A M1	uto FFT.	Hoppir	ng Emis 2.477	-7.34 dBm 05000 GHz 56.64 dBm
Spectrur Ref Level Att SGL Count 1Pk Max 1Pk Max 10 dBm- 1d dBm- -20 dBm-	d Edge 20.00 dBm 30 dB 1200/1200	Offset 5 SWT 22	5.07 dB 🖷	NT 3-DH5 RBW 100 kHz	2480M 2 Mode A M1	uto FFT.	Hoppir	ng Emis 2.477	-7.34 dBm 05000 GHz 56.64 dBm
Spectrur Ref Level Att SGL Count 1Pk Max 1D dBm- D dBm- 10 dBm-	d Edge n 20.00 dBm 30 dB	Offset 5 SWT 22	5.07 dB 🖷	NT 3-DH5 RBW 100 kHz	2480M 2 Mode A M1	uto FFT.	Hoppir	ng Emis 2.477	-7.34 dBm 05000 GHz 56.64 dBm
Spectrur Ref Level Att SGL Count 1Pk Max 1Pk Max 10 dBm- 1d dBm- -20 dBm-	d Edge 20.00 dBm 30 dB 1200/1200	Offset 5 SWT 22	5.07 dB 🖷	NT 3-DH5 RBW 100 kHz	2480M 2 Mode A M1	uto FFT.	Hoppir	ng Emis 2.477	-7.34 dBm 05000 GHz 56.64 dBm
Spectrur Ref Level Att SGL Count 1Pk Max 10 dBm- D dBm- -20 dBm- -30 dBm-	D1 -27,060	Offset S SWT 22	6.07 dB 27.5 µs	NT 3-DH5 RBW 100 kH2 VBW 300 kH2	2480M	uto FFT. [1] [1]		ng Emis 2.477	-7.34 dBm 05000 GHz 56.64 dBm 56000 GHz
Spectrur Ref Level Att SGL Count IPk Max ID dBm	d Edge 20.00 dBm 30 dB 1200/1200	Offset 5 SWT 23	6.07 dB 27.5 µs	NT 3-DH5 RBW 100 kH2 VBW 300 kH2	2480M	uto FFT. [1] [1]		2.477 2.483	-7.34 dBm 05000 GHz 56.64 dBm 25000 GHz
Spectrur           Ref Level           Att           SGL Count           IPk Max           IPk Max           10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -60 dBm	D1 -27,060	Offset S SWT 22	6.07 dB 27.5 µs	NT 3-DH5 RBW 100 kH2 VBW 300 kH2	2480M	uto FFT. [1] [1]		2.477 2.483	-7.34 dBm 05000 GHz 56.64 dBm 56000 GHz
Spectrur           Ref Level           Att           SGL Count           1Pk Max           1D dBm           P dBm           -20 dBm           -30 dBm           -50 dBm           -50 dBm           -60 dBm           -70 dBm           Start 2.47	D1 -27,080	Offset S SWT 22	6.07 dB 27.5 µs	NT 3-DH5 RBW 100 kH2 VBW 300 kH2	2480M	uto FFT. [1] [1]		2.477 2.483	-7.34 dBm 05000 GHz 56.64 dBm 56000 GHz
Spectrur           Ref Level           Att           SGL Count           1Pk Max           10 dBm           10 dBm           -20 dBm           -30 dBm           -50 dBm           -60 dBm           -70 dBm           Stort 2.47	d Edge n 20.00 dBm 30 dB 1200/1200 1200/1200 01 -27,086 01	Offset S SWT 22	5.07 dB 27.5 μs	NT 3-DH5 RBW 100 kH2 VBW 300 kH2 	2480M	uto FFT	anon a farma	2.477 2.483	-7.34 dBm 05000 GHz 56.64 dBm 56000 GHz 50000 GHz 2.576 GHz
Spectrur           Ref Level           Att           SGL Count           1Pk Max           10 dBm           10 dBm           -20 dBm           -30 dBm           -30 dBm           -50 dBm           -50 dBm           -50 dBm           -70 dBm           Start 2.47           Type           Re	d Edge 1 20.00 dBm 30 dB 20.00/1200 0 0 0 0 0 0 0 0 0 0 0 0	Offset 2 Swr 22	5.07 dB 27.5 µs	NT 3-DH5 RBW 100 kH2 VBW 300	2480M	uto FFT	anon a farma	2.477 2.483	-7.34 dBm 05000 GHz 56.64 dBm 56000 GHz 50000 GHz 2.576 GHz
Spectrur           Ref Level           Att           SGL Count           1Pk Max           10 dBm           10 dBm           -20 dBm           -30 dBm           -50 dBm           -70 dBm           -70 dBm           Start 2.47           Yarker           Type	d Edge n 20.00 dBm 30 dB 1200/1200 	Offset 8 SWT 22 3 dBm 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	5.07 dB 7.5 µs	NT 3-DH5 RBW 100 kH2 VBW 300 kH2 VBW 300 kH2 VBW 300 kH2 VBW 300 kH2 VBW 300 kH2 VBW 300 kH2 NT 3-DH5 KH2 NT 3-DH5 KH2 NT 3-DH5 KH2 NT 3-DH5 KH2 NT 3-DH5 KH2 NT 3-DH5 NT 3-DH	2480M	uto FFT	anon a farma	2.477 2.483	-7.34 dBm 05000 GHz 56.64 dBm 56000 GHz 50000 GHz 2.576 GHz



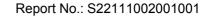
## NTEK 北测<sup>®</sup>

## 8.9 CONDUCTED RF SPURIOUS EMISSION

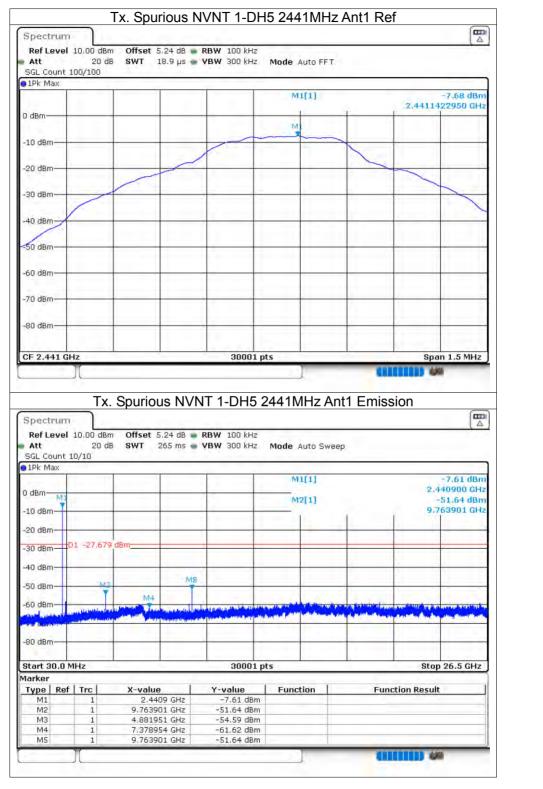
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	Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
	NVNT	1-DH5	2402	Ant1	-43.88	-20	Pass
	NVNT	1-DH5	2441	Ant1	-43.95	-20	Pass
	NVNT	1-DH5	2480	Ant1	-44.46	-20	Pass
	NVNT	2-DH5	2402	Ant1	-43.29	-20	Pass
	NVNT	2-DH5	2441	Ant1	-44.46	-20	Pass
	NVNT	2-DH5	2480	Ant1	-44.69	-20	Pass
	NVNT	3-DH5	2402	Ant1	-43.05	-20	Pass
	NVNT	3-DH5	2441	Ant1	-44.4	-20	Pass
	NVNT	3-DH5	2480	Ant1	-43.59	-20	Pass

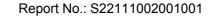


	_	i x. Spur	IOUS N	VNT 1-DH	5 2402MF	12 Ant'i R	er	0
Spectrum								
Ref Level 1 Att	20 dB			RBW 100 kHz VBW 300 kHz	Mode Auto FF	т		
SGL Count 10 1Pk Max	10/100	-						
				1	M1[1]			-7.02 dBm
0 dBm						1	2,4022	472420 GHz
			1.1		b	11		
-10 dBm						~		
			/					
-20 dBm			-			~	-	
a	- /	-						
-30 dBm	/							
-40 dBm				1			1 1	
-50 dBm			_				-	
-60 dBm							-	
-70 dBm								
-70 000								
-80 dBm								
				1.	-			· · · · ·
	(	Spuriou	is NVN	30001 p		Ant1 Emis		an 1.5 MHz
Spectrum Ref Level 1	Tx.	Offset 5.	.07 dB 🖷	IT 1-DH5 2 RBW 100 kHz	2402MHz /			an 1.5 MHz
Spectrum Ref Level 1	Tx. 0.00 dBm 20 dB	Offset 5.	.07 dB 🖷	IT 1-DH5 2				
Spectrum Ref Level 1 Att SGL Count 10	Tx. 0.00 dBm 20 dB	Offset 5.	.07 dB 🖷	IT 1-DH5 2 RBW 100 kHz	2402MHz / Mode Auto Sv			
Spectrum Ref Level 1 Att SGL Count 10 1Pk Max	Tx. 0.00 dBm 20 dB	Offset 5.	.07 dB 🖷	IT 1-DH5 2 RBW 100 kHz	2402MHz /		ssion	
Spectrum Ref Level 1 Att SGL Count 10 1Pk Max 0 dBm	Tx. 0.00 dBm 20 dB	Offset 5.	.07 dB 🖷	IT 1-DH5 2 RBW 100 kHz	2402MHz / Mode Auto Sv		ssion 2.	-7.76 dBm 402070 GHz -50.90 dBm
Spectrum Ref Level 1 Att SGL Count 10 IPk Max 0 dBm 	Tx. 0.00 dBm 20 dB	Offset 5.	.07 dB 🖷	IT 1-DH5 2 RBW 100 kHz	2402MHz / Mode Auto Sv		ssion 2.	-7.76 dBm 402070 GHz
Spectrum Ref Level 1 Att SGL Count 10 1Pk Max 0 dBm	Tx. 0,00 dBm 20 dB //10	Offset 5. SWT 2	.07 dB 🖷	IT 1-DH5 2 RBW 100 kHz	2402MHz / Mode Auto Sv		ssion 2.	-7.76 dBm 402070 GHz -50.90 dBm
Spectrum Ref Level 1 Att SGL Count 10 IPk Max 0 dBm 	Tx. 0.00 dBm 20 dB	Offset 5. SWT 2	.07 dB 🖷	IT 1-DH5 2 RBW 100 kHz	2402MHz / Mode Auto Sv		ssion 2.	-7.76 dBm 402070 GHz -50.90 dBm
Spectrum Ref Level 1 Att SGL Count 10 1Pk Max 0 dBm	Tx. 0,00 dBm 20 dB //10	Offset 5. SWT 2	.07 dB 🖷	IT 1-DH5 2 RBW 100 kHz	2402MHz / Mode Auto Sv		ssion 2.	-7.76 dBm 402070 GHz -50.90 dBm
Spectrum Ref Level 1 Att SGL Count 10 IPk Max 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	Tx. 0,00 dBm 20 dB //10	Offset 5. SWT 2	.07 dB 🖷	IT 1-DH5 2 RBW 100 kHz	2402MHz / Mode Auto Sv		ssion 2.	-7.76 dBm 402070 GHz -50.90 dBm
Spectrum Ref Level 1 Att SGL Count 10 1Pk Max 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm	Tx. 0,00 dBm 20 dB //10	Offset 5. SWT 2	07 dB 🖷	IT 1-DH5 2 RBW 100 kHz	2402MHz / Mode Auto Sv M1[1] M2[1]	veep	ssion 2.	-7.76 dBm 402070 GHz -50.90 dBm
Spectrum Ref Level 1 Att SGL Count 10 IPk Max 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	Tx. 0,00 dBm 20 dB //10	Offset 5. SWT 2	07 dB 🖷	IT 1-DH5 2	2402MHz / Mode Auto Sv		ssion 2.	-7.76 dBm 402070 GHz -50.90 dBm
Spectrum Ref Level 1 Att SGL Count 10 1Pk Max 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm	Tx. 0,00 dBm 20 dB //10	Offset 5. SWT 2	07 dB 🖷	IT 1-DH5 2	2402MHz / Mode Auto Sv M1[1] M2[1]		ssion 2.	-7.76 dBm 402070 GHz -50.90 dBm
Spectrum Ref Level 1 Att SGL Count 10 1Pk Max 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm	Tx. 0,00 dBm 20 dB //10	Offset 5. SWT 2	07 dB 🖷	IT 1-DH5 2	2402MHz / Mode Auto Sv M1[1] M2[1]		ssion 2.	-7.76 dBm 402070 GHz -50.90 dBm
Spectrum Ref Level 1 Att SGL Count 10 1Pk Max 0 dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -60 dBm -50 dBm -50 dBm -80 dBm	Tx. 0.00 dBm 20 dB //10	Offset 5. SWT 2	07 dB 🖷	IT 1-DH5 2	2402MHz / Mode Auto Sv M1[1] M2[1]		2. 9.	-7.76 dBm 402070 GHz -50.90 dBm 608611 GHz
Spectrum Ref Level 1 Att SGL Count 10 1Pk Max 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -50 dBm -60 dBm -60 dBm -50 dBm	Tx. 0.00 dBm 20 dB //10	Offset 5. SWT 2	07 dB 🖷	IT 1-DH5 2	2402MHz / Mode Auto Sv M1[1] M2[1]		2. 9.	-7.76 dBm 402070 GHz -50.90 dBm
Att           SGL Count 10           1Pk Max           0 dBm           -10 dBm           -20 dBm           -30 dBm           -50 dBm           -60 dBm           -80 dBm           Start 30.0 Mil           Marker           Type         Ref	Tx. 0.00 dBm 20 dB /10 -27.023 -27.023 -27.023 -27.023 -27.023	Offset 5. SWT 2	.07 dB	IT 1-DH5 2	2402MHz / Mode Auto Sv M1[1] M2[1]		2. 9.	-7.76 dBm 402070 GHz -50.90 dBm 608611 GH2
Spectrum Ref Level 1 Att SGL Count 10 IPk Max 0 dBm	Tx. 0.00 dBm 20 dB //10	Offset 5. SWT 2	.07 dB	IT 1-DH5 2 RBW 100 kHz YBW 300 kHz 100 kHz 300 kHz 30001 p	2402MHz / Mode Auto Sv M1[1] M2[1]		2. 9. 	-7.76 dBm 402070 GHz -50.90 dBm 608611 GH2
Spectrum           Ref Level 1           Att           SGL Count 10           IPk Max           0 dBm           -10 dBm           -20 dBm           -30 dBm           -50 dBm           -60 dBm           -80 dBm	Tx. 0.00 dBm 20 dB //10 -27.023 -27.023 -27.023 -27.023 -27.023 -27.023	Offset 5. SWT 2 dBm M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4	07 dB 65 ms 65 ms 67 ms 67 ms 68 ms 78 ms	IT 1-DH5 2 RBW 100 kHz VBW 300 kHz 300 kHz 300 kHz 300 kHz - - - - - - - - - - - - -	2402MHz / Mode Auto Sv M1[1] M2[1]		2. 9. 	-7.76 dBm 402070 GHz -50.90 dBm 608611 GH2
Spectrum Ref Level 1 Att SGL Count 10 IPk Max 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -40 dBm -50 dBm -50 dBm -50 dBm -50 dBm -50 dBm -50 dBm -80 dBm	Tx. 0.00 dBm 20 dB //10 27.023	Offset 5. SWT 2 dBm M4 M4 Z.4020 9.60861	07 dB 65 ms 9	IT 1-DH5 2 RBW 100 kHz YBW 300 kHz 300 kHz	2402MHz / Mode Auto Sv M1[1] M2[1]		2. 9. 	-7.76 dBm 402070 GHz -50.90 dBm 608611 GH2

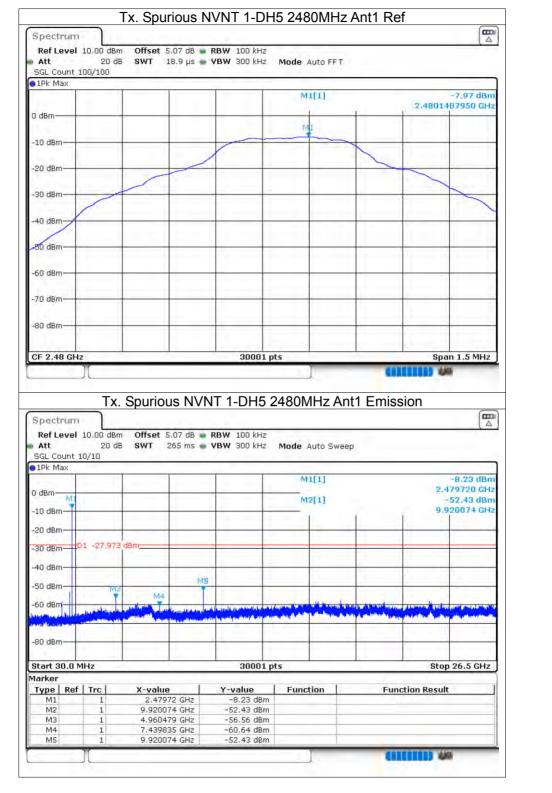


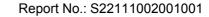




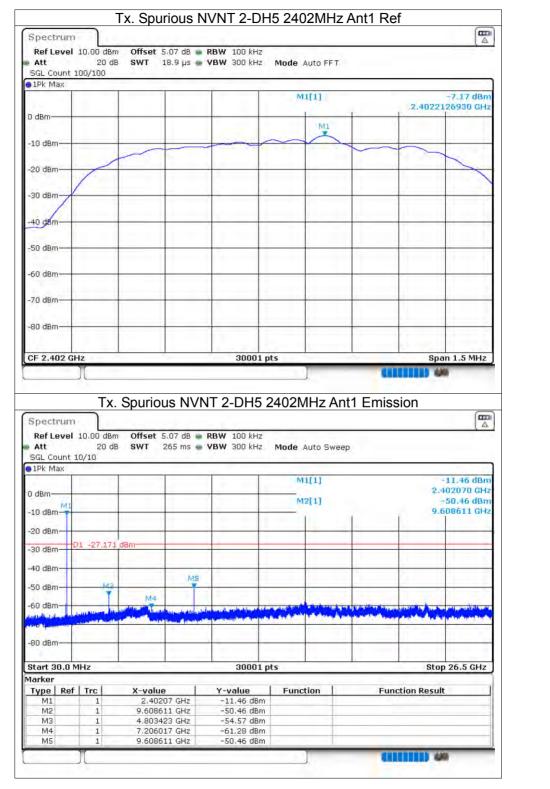


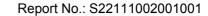




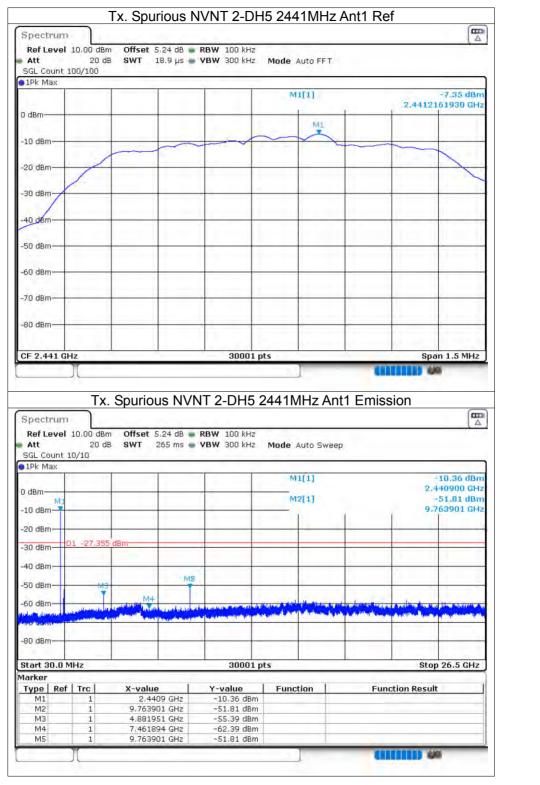


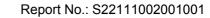




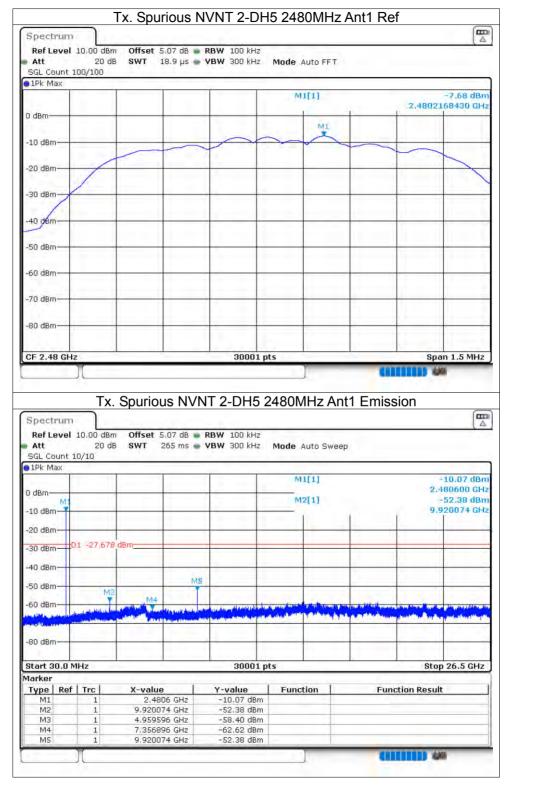


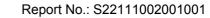




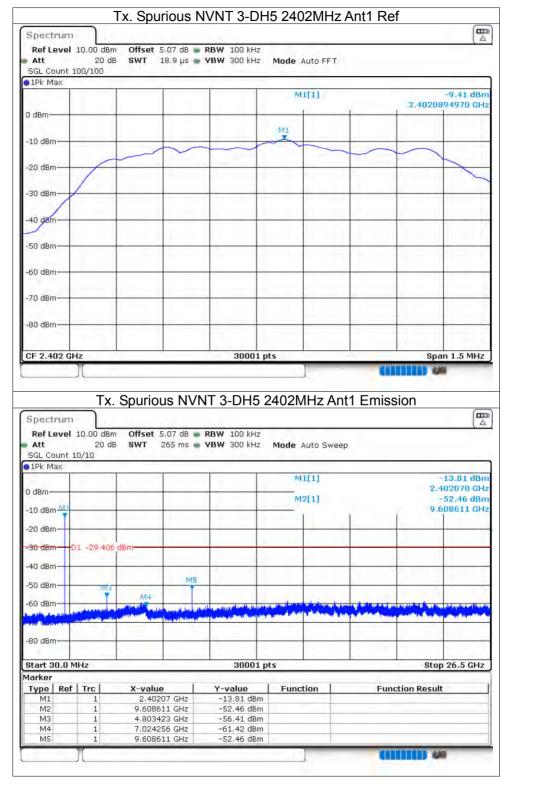


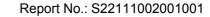




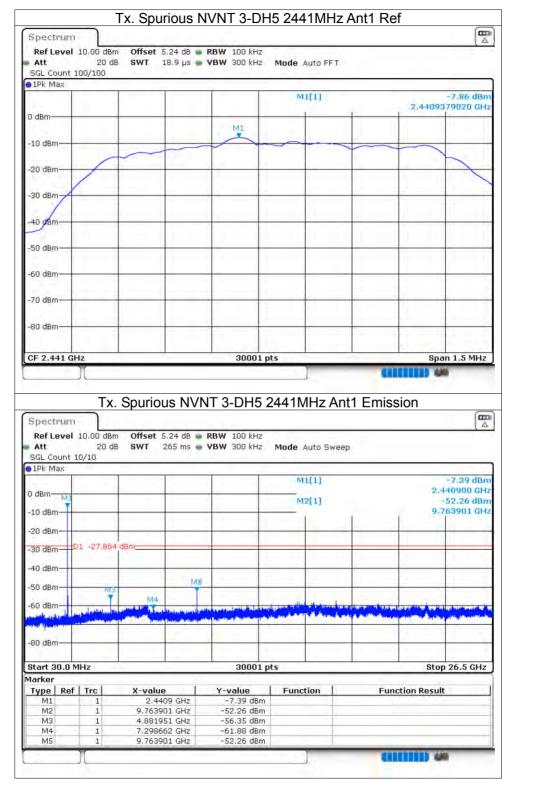


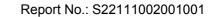




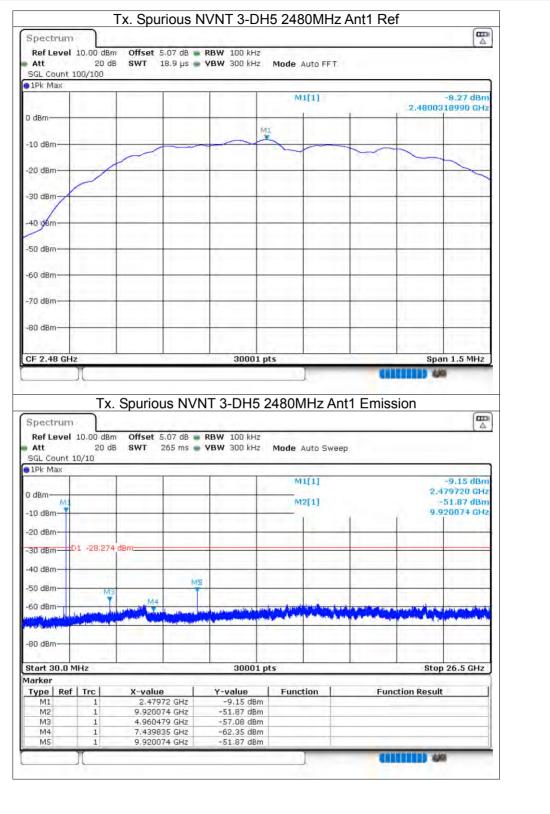












END OF REPORT