# **Radio Test Report**

Report No.:STS2411018W01

Issued for

Shenzhen Monster Creative Technology Co., Ltd.

Room 1602, Building A, Fencheng Zhigu Building, Xixiang Street, Bao 'an District, Shenzhen, Guangdong, China

Product Name:	BLUETOOTH HEADPHONE

Brand Name: MONSTER

Model Name: MH22216

Series Model(s): E67

FCC ID: 2AVD2-MH22216

Test Standards: FCC Part15.247

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.



# **TEST REPORT**

Applicant's Name:	Shenzhen Monster Creative Technology Co., Ltd.		
Address	Room 1602, Building A, Fencheng Zhigu Building, Xixiang Street, Bao 'an District, Shenzhen, Guangdong, China		
Manufacturer's Name	Shenzhen Monster Creative Technology Co., Ltd.		
Address	Room 1602, Building A, Fencheng Zhigu Building, Xixiang Street, Bao 'an District, Shenzhen, Guangdong, China		
Product Description			
Product Name:	BLUETOOTH HEADPHONE		
Brand Name:	MONSTER		
Model Name:	MH22216		
Series Model(s)	E67		
Test Standards	FCC Part15.247		
Test Procedure:	ANSI C63.10-2020		

This device described above has been tested by STS, 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.

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.

Date of Test.....

Date of receipt of test item ......: 04 Nov. 2024

Date (s) of performance of tests : 04 Nov. 2024~08 Nov. 2024

Date of Issue .....: 08 Nov. 2024

Test Result .....: Pass

Testing Engineer

Jann Bu

(Aaron Bu)

Technical Manager

(Tony Liu)

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ST SEA

Authorized Signatory :





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Report No.: STS2411018W01

# **Revision History**

Rev.	Issue Date	Report No.	Effect Page	Contents
00	08 Nov. 2024	STS2411018W01	ALL	Initial Issue
			9	9





# 1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards: KDB 558074 D01 15.247 Meas Guidance v05r02.

FCC Part 15.247,Subpart C				
Standard Section	Judgment	Remark		
15.207	Conducted Emission	PASS		
15.247(a)(1)	Hopping Channel Separation	PASS		
15.247(a)(1)&(b)(1)	Output Power	PASS		
15.209	Radiated Spurious Emission	PASS		
15.247(d)	15.247(d) Conducted Spurious & Band Edge Emission			
15.247(a)(1)(iii)	Number of Hopping Frequency	PASS	-	
15.247(a)(1)(iii)	Dwell Time	PASS		
15.247(a)(1)	Bandwidth	PASS		
15.205	Restricted bands of operation	PASS		
Part 15.247(d)/part 15.209(a)	Band Edge Emission	PASS	-	
15.203	Antenna Requirement	PASS	-	

NOTE:

(1) 'N/A' denotes test is not applicable in this Test Report.

(2) All tests are according to ANSI C63.10-2020.



### 1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD Add. : 101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai Sub-District, Bao'an District, Shenzhen, Guang Dong, China FCC test Firm Registration Number: 625569 IC test Firm Registration Number: 12108A A2LA Certificate No.: 4338.01

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### **1.2 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	RF output power, conducted	±0.755dB
2	Unwanted Emissions, conducted	±2.874dB
3	All emissions, radiated 9K-30MHz	±3.80dB
4	All emissions, radiated 30M-1GHz	±4.18dB
5	All emissions, radiated 1G-6GHz	±4.90dB
6	All emissions, radiated>6G	±5.24dB
7	Conducted Emission (9KHz-150KHz)	±2.19dB
8	Conducted Emission (150KHz-30MHz)	±2.53dB
9	Occupied Channel Bandwidth	±3.5%
10	Dwell time	±3.2%



# 2. GENERAL INFORMATION

## 2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	BLUETOOTH HEADPHONE
Brand Name	MONSTER
Model Name	MH22216
Series Model(s)	E67
Model Difference	Only the model names differ
Channel List	Please refer to the Note 3.
Bluetooth	Frequency:2402 – 2480 MHz Modulation: GFSK(1Mbps), π/4-DQPSK(2Mbps), 8DPSK(3Mbps)
Bluetooth Configuration	BR+EDR
Antenna Type	РСВ
Antenna Gain	1.9dBi
Battery	Rated Voltage:3.7V Capacity: 500mAh
Hardware version number	N/A
Software version number	N/A
Connecting I/O Port(s)	Please refer to the Note 1.

Note:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.
- 2. The antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report. Due to the incorrect antenna information, a series of problems such as the accuracy of the test results will be borne by the customer.



3.

		Chanı	nel List		
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	27	2429	54	2456
01	2403	28	2430	55	2457
02	2404	29	2431	56	2458
03	2405	30	2432	57	2459
04	2406	31	2433	58	2460
05	2407	32	2434	59	2461
06	2408	33	2435	60	2462
07	2409	34	2436	61	2463
08	2410	35	2437	62	2464
09	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454		
26	2428	53	2455		



#### 2.2 DESCRIPTION OF THE 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.

Worst Mode	Description	Data Rate/Modulation
Mode 1	TX CH00	1Mbps/GFSK
Mode 2	TX CH39	1Mbps/GFSK
Mode 3	TX CH78	1Mbps/GFSK
Mode 4	TX CH00	2 Mbps/π/4-DQPSK
Mode 5	TX CH39	2 Mbps/π/4-DQPSK
Mode 6	TX CH78	2 Mbps/π/4-DQPSK
Mode7	TX CH00	3 Mbps/8DPSK
Mode 8	TX CH39	3 Mbps/8DPSK
Mode 9	TX CH78	3 Mbps/8DPSK
Mode 10	Hopping	GFSK
Mode 11	Hopping	π/4-DQPSK
Mode 12	Hopping	8DPSK

Note:

(1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.

(2) We tested for all available U.S. voltage and frequencies (For 120V, 50/60Hz and 240V, 50/60Hz) for which the device is capable of operation, and the worst case of 120V/ 60Hz is shown in the report.

(3) The battery is fully-charged during the radiated and RF conducted test.

For AC Conducted Emission

Test Case	
AC Conducted Emission	Mode 13 : Keeping BT TX

#### 2.3 FREQUENCY HOPPING SYSTEM REQUIREMENTS

(1)Standard and Limit

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.

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 transmitter be presented with a continuous data (or information) stream. In addition, a system employing short 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.

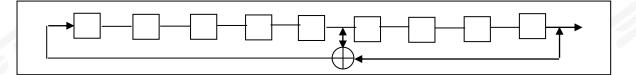


The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hop sets to avoid hopping on occupied channels is permitted. The coordination 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.

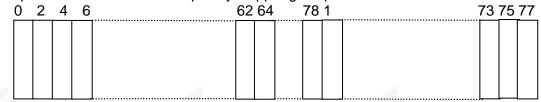
(2)The Pseudorandom sequence may be generated in a nin-stage shift register whose 5<sup>th</sup> and 9<sup>th</sup> stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first one of 9 consecutive ones: i.e. the shift register is initialized with nine ones.

Numver of shift register stages:9

Length of pseudo-random sequence:2<sup>9</sup>-1=511bits Longest sequence of zeros: 8(non-inverted signal)



Liner Feedback Shift Register for Generator of the PRBS sequence An example of Pseudorandom Frequency Hoppong Sequence as follow:



Each frequency used equally on the average by each transmitter. The system receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies ini synchronization with the transmitted signals.

### (3)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 2,400-2,483.5MHz. 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 a bluetooth system receiver to check that the device maintained hopping synchronization, and the device complied with these requirements FCC Part 15.247 rule.



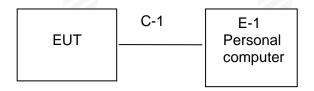
# 2.4 TABLE OF PARAMETERS OF TEST SOFTWARE SETTING

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of FHSS.

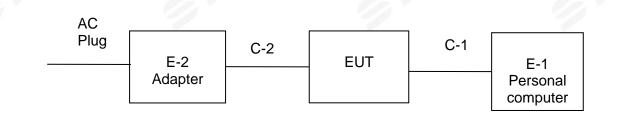
	Test program: Bluetooth			
(Control software) Parameters(1/2/3Mbps	Packet type: DH1:4:27 2DH1:20:54 3DH1:24:83	Packet type: DH3:11:183 2DH3:26:367 3DH3:27:552	Packet type: DH5:15:339 2DH5:30:679 3DH5:31:1021	

RF Function	Туре	Mode Or Modulation type	ANT Gain(dBi)	Power Class	Software For Testing
1		GFSK	1.9	4	1
BT	BR+EDR	π/4-DQPSK	1.9	4	FCC_assist_1.0.2.2
		8DPSK	1.9	4	

# 2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED Radiated Spurious Emission Test



**Conducted Emission Test** 





2.6 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
N/A	N/A	N/A	N/A	N/A	N/A

## Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
E-1	Personal computer	DELL	Inspiron 3501	N/A	N/A
E-2	Adapter	ZTC	NB-A515A	N/A	N/A
C-1	Serial port board	XES	WTYZK	N/A	N/A
C-2	USB Cable	ZTC	NB-A515A	150cm	N/A

Note:

- (1) For detachable type I/O cable should be specified the length in cm in <sup>r</sup> Length <sup>a</sup> column.
- (2) "YES" is means "with core"; "NO" is means "without core".



# 2.7 EQUIPMENTS LIST

	RF Radi	ation Test Equipmer	nt		
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
Temperature & Humidity	Temperature & Humidity SW-108		N/A	2024.03.15	2025.03.14
Pre-Amplifier(0.1M-3GHz)	Pre-Amplifier(0.1M-3GHz) EM		060665	2024.02.23	2025.02.22
Pre-Amplifier(1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2024.09.23	2025.09.22
Pre-Amplifier(18G-40GHz)	SKET	LNPA_1840-50	SK2018101801	2024.02.23	2025.02.22
Active loop Antenna	ZHINAN	ZN30900C	16035	2023.02.28	2025.02.27
Bilog Antenna	TESEQ	CBL6111D	34678	2024.09.30	2025.09.29
Horn Antenna	SCHWARZBECK	BBHA 9120D	02014	2023.09.24	2025.09.23
Horn Antenna	A-INFOMW	LB-180400-KF	J211020657	2023.10.10	2025.10.09
Positioning Controller	MF	MF-7802	MF-780208587	N/A	N/A
Signal Analyzer	R&S	FSV 40-N	101823	2024.09.23	2025.09.22
Switch Control Box	N/A	N/A	N/A	N/A	N/A
Filter Box	BALUN Technology	SU319E	BL-SZ1530051	N/A	N/A
Antenna Mast			N/A	N/A	N/A
Turn Table	MF	SC100_1	60531	N/A	N/A
AC Power Source	APC	KDF-11010G	F214050035	N/A	N/A
DC power supply	HONGSHENGFENG	DPS-305AF	17064939	2024.09.23	2025.09.22
Test SW	EZ-EMC		Ver.STSLAB-03	A1 RE	
1.	Conduc	ction Test equipment	t 🖉		d'a
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2024.09.24	2025.09.23
Limtter	CYBERTEK	EM5010	N/A	2024.09.24	2025.09.23
LISN	R&S	ENV216	101242	2024.09.24	2025.09.23
LISN	EMCO	3810/2NM	23625	2024.09.24	2025.09.23
Temperature & Humidity	SW-108	SuWei	N/A	2024.03.15	2025.03.14
Test SW	EZ-EMC		Ver.STSLAB-03/	A1 CE	
	RF	Connected Test			
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Signal Analyzer	Agilent	N9020A	MY51510623	2024.02.23	2025.02.22
Power Sensor	Keysight	U2021XA	MY56120038	2024.09.23	2025.09.22
Temperature & Humidity	SW-108	SuWei	N/A	2024.03.15	2025.03.14
Test SW	MW		MTS 8310_2.0	0.0.0	



#### 3. EMC EMISSION TEST

# 3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

The radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table.

	Conducted Emissionlimit (dBuV)		
FREQUENCY (MHz)	Quasi-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	
0.50 -5.0	56.00	46.00	
5.0 -30.0	60.00	50.00	

Note:

(1) The tighter limit applies at the band edges.

(2) The limit of "\*" marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

### The following table is the setting of the receiver

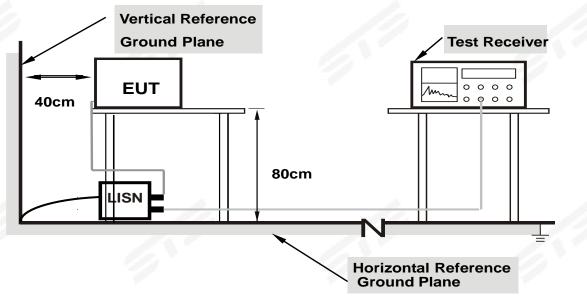
Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



### 3.1.2 TEST PROCEDURE

- a. The EUT is 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments are powered from additional LISN(s). The LISN provides 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. 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 40 cm long.
- c. 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.
- d. LISN is at least 80 cm from the nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

### 3.1.3 TEST SETUP



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes support units.

### 3.1.4 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



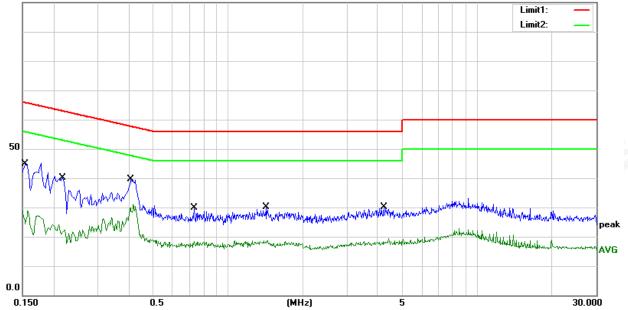
# 3.1.5 TEST RESULT

Temperature:	<b>25.1℃</b>	Relative Humidity:	59%
Test Voltage:	AC 120V/60Hz	Phase:	L //
Test Mode:	Mode 13	68	68

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1540	25.19	19.78	44.97	65.78	-20.81	QP
2	0.1540	9.15	19.78	28.93	55.78	-26.85	AVG
3	0.2180	20.40	19.85	40.25	62.89	-22.64	QP
4	0.2180	1.71	19.85	21.56	52.89	-31.33	AVG
5	0.4100	19.54	20.01	39.55	57.65	-18.10	QP
6	0.4100	11.09	20.01	31.10	47.65	-16.55	AVG
7	0.7340	10.01	19.81	29.82	56.00	-26.18	QP
8	0.7340	-1.50	19.81	18.31	46.00	-27.69	AVG
9	1.4460	9.27	19.78	29.05	56.00	-26.95	QP
10	1.4460	-1.13	19.78	18.65	46.00	-27.35	AVG
11	4.2460	10.22	19.83	30.05	56.00	-25.95	QP
12	4.2460	-0.43	19.83	19.40	46.00	-26.60	AVG

### Remark:

- All readings are Quasi-Peak and Average values
   Margin = Result (Result =Reading + Factor )–Limit
   Factor=LISN factor+Cable loss+Limiter (10dB)
   100.0 dBuV





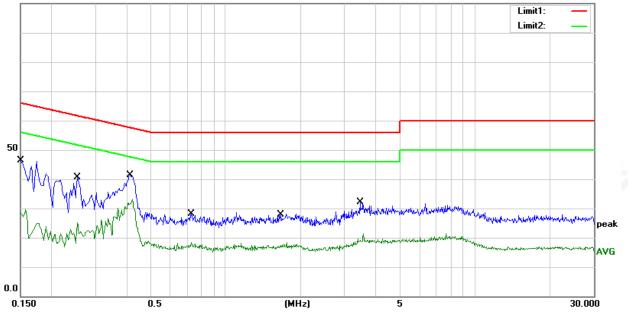
Temperature:	<b>25.1</b> ℃	Relative Humidity:	59%
Test Voltage:	AC 120V/60Hz	Phase:	N
Test Mode:	Mode 13	17	1.7

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1500	26.71	19.74	46.45	66.00	-19.55	QP
2	0.1500	9.92	19.74	29.66	56.00	-26.34	AVG
3	0.2540	20.60	20.08	40.68	61.63	-20.95	QP
4	0.2540	4.94	20.08	25.02	51.63	-26.61	AVG
5	0.4140	21.44	20.03	41.47	57.57	-16.10	QP
6	0.4140	13.19	20.03	33.22	47.57	-14.35	AVG
7	0.7300	8.33	19.83	28.16	56.00	-27.84	QP
8	0.7300	-1.51	19.83	18.32	46.00	-27.68	AVG
9	1.6700	7.94	19.85	27.79	56.00	-28.21	QP
10	1.6700	-1.43	19.85	18.42	46.00	-27.58	AVG
11	3.4540	12.16	19.94	32.10	56.00	-23.90	QP
12	3.4540	1.52	19.94	21.46	46.00	-24.54	AVG

#### Remark:

- All readings are Quasi-Peak and Average values
   Margin = Result (Result = Reading + Factor )–Limit
- 3. Factor=LISN factor+Cable loss+Limiter (10dB)







## 3.2 RADIATED EMISSION MEASUREMENT

### 3.2.1 RADIATED EMISSION LIMITS

In any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part15.205 (a)&209(a) limit in the table and according to ANSI C63.10-2020 below has to be followed.

### LIMITS OF RADIATED EMISSION MEASUREMENT (0.009MHz - 1000MHz)

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

### LIMITS OF RADIATED EMISSION MEASUREMENT (1GHz-25 GHz)

	(dBuV/m) (at 3M)			
FREQUENCY (MHz)	PEAK	AVERAGE		
Above 1000	74	54		
Netes				

Notes:

(1) The limit for radiated test was performed according to FCC PART 15C.

- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

### LIMITS OF RESTRICTED FREQUENCY BANDS

FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (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	108-121.94	1718.8-1722.2	13.25-13.4	
6.31175-6.31225	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	Above 38.6	
13.36-13.41				



For Radiated Emission

Spectrum Parameter	Setting		
Attenuation	Auto		
Detector	Peak/QP/AV		
Start Frequency	9 KHz/150KHz(Peak/QP/AV)		
Stop Frequency	150KHz/30MHz(Peak/QP/AV)		
	200Hz (From 9kHz to 0.15MHz)/		
RB / VB (emission in restricted	9KHz (From 0.15MHz to 30MHz);		
band)	200Hz (From 9kHz to 0.15MHz)/		
	9KHz (From 0.15MHz to 30MHz)		

Spectrum Parameter	Setting	
Attenuation	Auto	
Detector	Peak/QP	
Start Frequency	30 MHz(Peak/QP)	
Stop Frequency	1000 MHz (Peak/QP)	
RB / VB (emission in restricted		
band)	120 KHz / 300 KHz	

Spectrum Parameter	Setting		
Attenuation	Auto		
Detector	Peak/AV		
Start Frequency	1000 MHz(Peak/AV)		
Stop Frequency	10th carrier hamonic(Peak/AV)		
RB / VB (emission in restricted	1 MHz / 3 MHz(Peak)		
band)	1 MHz/1/T MHz(AVG)		

For Restricted band

	Spectrum Parameter	Setting			
ø	Detector	Peak/AV			
	Start/Stop Frequency	Lower Band Edge: 2310 to 2410 MHz			
		Upper Band Edge: 2476 to 2500 MHz			
	RB / VB	1 MHz / 3 MHz(Peak)			
		1 MHz/1/T MHz(AVG)			

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Receiver Parameter	Setting	
Attenuation	Auto	
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV	
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP	
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV	
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP	
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP	

### 3.2.2 TEST PROCEDURE

- a. The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- b. The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the position of the highest radiation.
- c. The height of the equipment shall be 0.8 m (above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarization of the antenna are set to make the measurement.
- d. 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 QuasiPeak detector mode will be re-measured.
- e. If the Peak Mode measured value is compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and no additional QP Mode measurement was performed.
- f. 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.

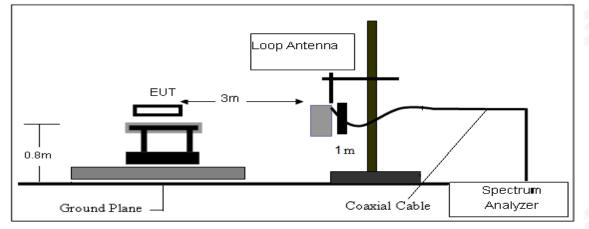
# 3.2.3 DEVIATION FROM TEST STANDARD

No deviation.

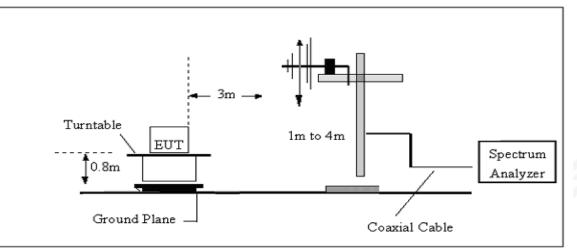


# 3.2.4 TESTSETUP

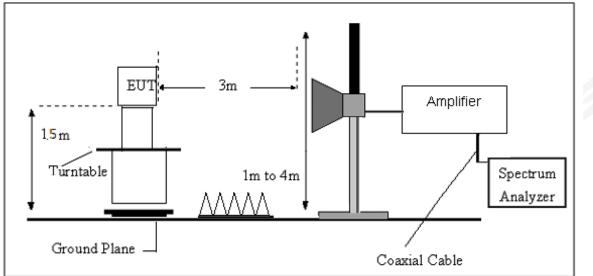
(A) Radiated Emission Test-Up Frequency Below 30MHz

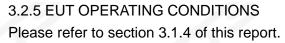


## (B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz







# 3.2.6 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AGWhere FS = Field Strength CL = Cable Attenuation Factor (Cable Loss) RA = Reading Amplitude AG = Amplifier Gain

AF = Antenna Factor

For example

Frequency	FS	RA	AF	CL	AG	Factor
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(dB)	(dB)	(dB)
300	40	58.1	12.2	1.6	31.9	-18.1

Factor=AF+CL-AG











### 3.2.7 TEST RESULTS

(9KHz-30MHz)

Temperature:	<b>23.4</b> ℃	Relative Humidity:	60%
Test Voltage:	DC 3.7V From Battery	Test Mode:	TX Mode

Freq.	Reading	Limit	Margin	State	Toot Dooult	
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F	Test Result	
					PASS	
					PASS	

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB); Limit line = specific limits (dBuv) + distance extrapolation factor.



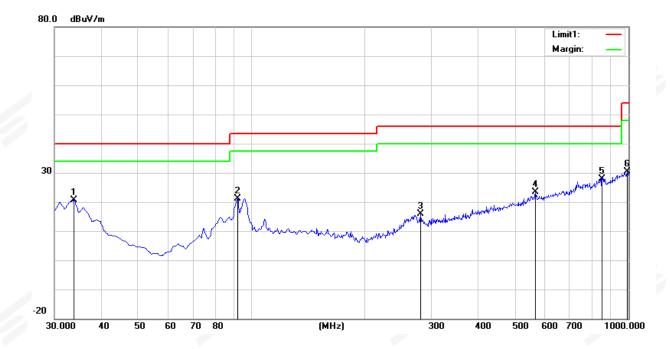
(30MHz-1000MHz)

Temperature:	<b>23.4℃</b>	Relative Humidity:	60%		
Test Voltage:	DC 3.7V From Battery	Phase:	Horizontal		
Test Mode:	Mode 1/2/3/4/5/6/7/8/9(Mode 9 worst mode)				

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	33.8800	35.48	-14.80	20.68	40.00	-19.32	peak
2	92.0800	42.41	-21.20	21.21	43.50	-22.29	peak
3	281.2300	31.40	-15.56	15.84	46.00	-30.16	peak
4	567.3800	28.93	-5.57	23.36	46.00	-22.64	peak
5	851.5900	28.52	-0.70	27.82	46.00	-18.18	peak
6	993.2100	28.41	2.05	30.46	54.00	-23.54	peak

Remark:

- 1. Margin = Result (Result = Reading + Factor )-Limit
- 2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain
- 3. All modes have been tested, only show the worst case.



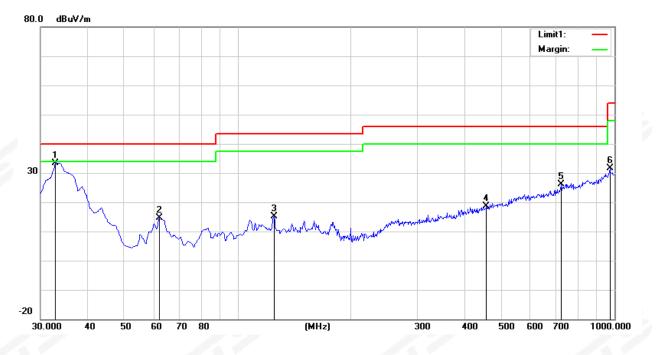


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Temperature:	<b>23.4</b> ℃	Relative Humidity:	60%		
Test Voltage:	DC 3.7V From Battery	Phase:	Vertical		
Test Mode:	Mode 1/2/3/4/5/6/7/8/9(Mode 9 worst mode)				

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	32.9100	47.61	-14.33	33.28	40.00	-6.72	peak
2	62.0100	40.51	-25.76	14.75	40.00	-25.25	peak
3	125.0600	33.32	-18.22	15.10	43.50	-28.40	peak
4	457.7700	28.20	-9.51	18.69	46.00	-27.31	peak
5	723.5500	29.07	-2.97	26.10	46.00	-19.90	peak
6	975.7500	29.20	2.38	31.58	54.00	-22.42	peak
emark:		10.3	a L Eactor ) Limit				

Margin = Result (Result = Reading + Factor )–Limit
 Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain





# (1GHz~25GHz) Spurious emission Requirements

Frequency	Meter Reading	Amplifier	Loss	Antenna Factor	Corrected Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
			110	Low Ch	annel (8DPSK	/2402 MHz)			1990	
3264.71	62.04	44.70	6.70	28.20	-9.80	52.24	74.00	-21.76	PK	Vertical
3264.71	50.34	44.70	6.70	28.20	-9.80	40.54	54.00	-13.46	AV	Vertical
3264.75	62.17	44.70	6.70	28.20	-9.80	52.37	74.00	-21.63	PK	Horizontal
3264.75	50.31	44.70	6.70	28.20	-9.80	40.51	54.00	-13.49	AV	Horizontal
4804.54	58.41	44.20	9.04	31.60	-3.56	54.85	74.00	-19.15	PK	Vertical
4804.54	50.51	44.20	9.04	31.60	-3.56	46.95	54.00	-7.05	AV	Vertical
4804.41	59.31	44.20	9.04	31.60	-3.56	55.75	74.00	-18.25	PK	Horizontal
4804.41	50.58	44.20	9.04	31.60	-3.56	47.02	54.00	-6.98	AV	Horizontal
5359.84	48.15	44.20	9.86	32.00	-2.34	45.81	74.00	-28.19	PK	Vertical
5359.84	39.49	44.20	9.86	32.00	-2.34	37.15	54.00	-16.85	AV	Vertical
5359.85	47.47	44.20	9.86	32.00	-2.34	45.13	74.00	-28.87	PK	Horizontal
5359.85	39.35	44.20	9.86	32.00	-2.34	37.01	54.00	-16.99	AV	Horizontal
7205.92	54.51	43.50	11.40	35.50	3.40	57.91	74.00	-16.09	PK	Vertical
7205.92	43.77	43.50	11.40	35.50	3.40	47.17	54.00	-6.83	AV	Vertical
7205.67	53.87	43.50	11.40	35.50	3.40	57.27	74.00	-16.73	PK	Horizontal
7205.67	44.31	43.50	11.40	35.50	3.40	47.71	54.00	-6.29	AV	Horizontal
		•	•	Middle C	hannel (8DPSI	√/2441 MHz)	•	•	•	•
3264.71	61.76	44.70	6.70	28.20	-9.80	51.96	74.00	-22.04	PK	Vertical
3264.71	51.54	44.70	6.70	28.20	-9.80	41.74	54.00	-12.26	AV	Vertical
3264.75	60.82	44.70	6.70	28.20	-9.80	51.02	74.00	-22.98	PK	Horizontal
3264.75	51.16	44.70	6.70	28.20	-9.80	41.36	54.00	-12.64	AV	Horizontal
4882.43	58.69	44.20	9.04	31.60	-3.56	55.13	74.00	-18.87	PK	Vertical
4882.43	50.20	44.20	9.04	31.60	-3.56	46.64	54.00	-7.36	AV	Vertical
4882.35	58.39	44.20	9.04	31.60	-3.56	54.83	74.00	-19.17	PK	Horizontal
4882.35	50.09	44.20	9.04	31.60	-3.56	46.53	54.00	-7.47	AV	Horizontal
5359.74	49.15	44.20	9.86	32.00	-2.34	46.80	74.00	-27.20	PK	Vertical
5359.74	39.27	44.20	9.86	32.00	-2.34	36.92	54.00	-17.08	AV	Vertical
5359.59	47.38	44.20	9.86	32.00	-2.34	45.04	74.00	-28.96	PK	Horizontal
5359.59	39.34	44.20	9.86	32.00	-2.34	37.00	54.00	-17.00	AV	Horizontal
7323.70	54.14	43.50	11.40	35.50	3.40	57.54	74.00	-16.46	PK	Vertical
7323.70	44.39	43.50	11.40	35.50	3.40	47.79	54.00	-6.21	AV	Vertical
7323.89	54.84	43.50	11.40	35.50	3.40	58.24	74.00	-15.76	PK	Horizontal
7323.89	43.92	43.50	11.40	35.50	3.40	47.32	54.00	-6.68	AV	Horizontal



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				High Chan	nel (8DPSK/	/2480 MHz)				
3264.88	62.32	44.70	6.70	28.20	-9.80	52.52	74.00	-21.48	PK	Vertical
3264.88	51.40	44.70	6.70	28.20	-9.80	41.60	54.00	-12.40	AV	Vertical
3264.74	61.29	44.70	6.70	28.20	-9.80	51.49	74.00	-22.51	PK	Horizontal
3264.74	51.04	44.70	6.70	28.20	-9.80	41.24	54.00	-12.76	AV	Horizontal
4960.53	59.31	44.20	9.04	31.60	-3.56	55.75	74.00	-18.25	PK	Vertical
4960.53	50.48	44.20	9.04	31.60	-3.56	46.92	54.00	-7.08	AV	Vertical
4960.46	59.21	44.20	9.04	31.60	-3.56	55.65	74.00	-18.35	PK	Horizontal
4960.46	50.11	44.20	9.04	31.60	-3.56	46.55	54.00	-7.45	AV	Horizontal
5359.86	48.33	44.20	9.86	32.00	-2.34	45.99	74.00	-28.01	PK	Vertical
5359.86	39.69	44.20	9.86	32.00	-2.34	37.35	54.00	-16.65	AV	Vertical
5359.62	48.36	44.20	9.86	32.00	-2.34	46.01	74.00	-27.99	PK	Horizontal
5359.62	38.14	44.20	9.86	32.00	-2.34	35.79	54.00	-18.21	AV	Horizontal
7439.93	54.22	43.50	11.40	35.50	3.40	57.62	74.00	-16.38	PK	Vertical
7439.93	44.36	43.50	11.40	35.50	3.40	47.76	54.00	-6.24	AV	Vertical
7439.81	54.18	43.50	11.40	35.50	3.40	57.58	74.00	-16.42	PK	Horizontal
7439.81	43.72	43.50	11.40	35.50	3.40	47.12	54.00	-6.88	AV	Horizontal

#### Note:

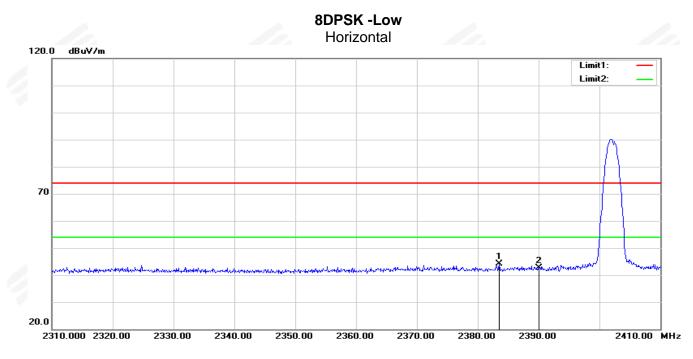
- 1) All modes have been measurement, only worst mode was reported.
- 2) Factor = Antenna Factor + Cable Loss Pre-amplifier.

Emission Level = Reading + Factor

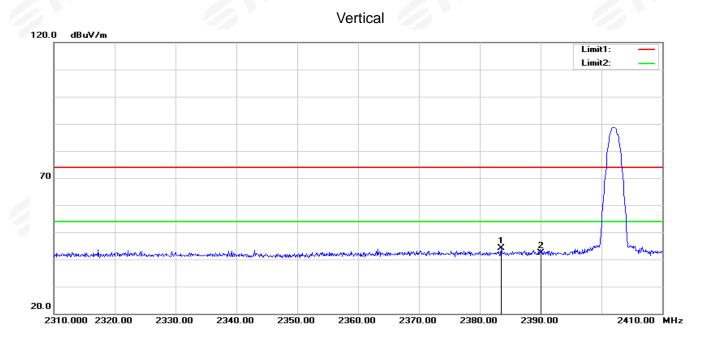
3) The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.



# Restricted band Requirements



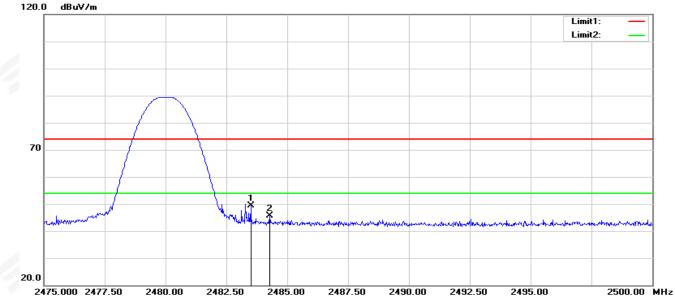
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2383.500	39.86	4.24	44.10	74.00	-29.90	peak
2	2390.000	38.29	4.34	42.63	74.00	-31.37	peak



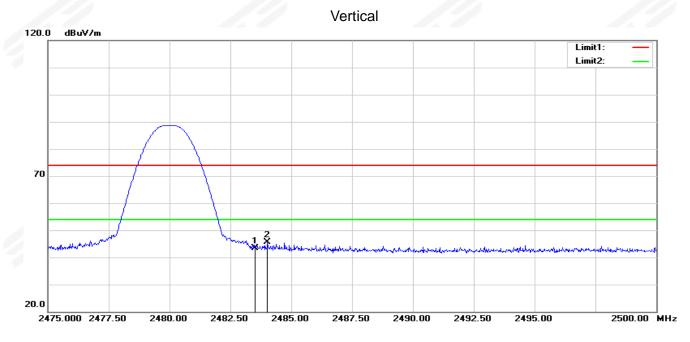
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
1	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2383.500	39.87	4.24	44.11	74.00	-29.89	peak
2	2390.000	38.09	4.34	42.43	74.00	-31.57	peak



### 8DPSK -High Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	44.79	4.60	49.39	74.00	-24.61	peak
2	2484.275	41.07	4.61	45.68	74.00	-28.32	peak



Ν	0.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
	1	2483.500	38.81	4.60	43.41	74.00	-30.59	peak
1	2	2484.025	41.02	4.61	45.63	74.00	-28.37	peak



# 4. CONDUCTED SPURIOUS & BAND EDGE EMISSION

### 4.1 LIMIT

According to FCC section 15.247(d), in any 100kHz 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 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

# 4.2 TEST PROCEDURE

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	30 MHz to 10th carrier harmonic
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

### For Band edge

Spectrum Parameter	Setting
Detector	Peak
	Lower Band Edge: 2300 – 2407 MHz
Start/Stop Frequency	Upper Band Edge: 2475 – 2500 MHz
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

### For Hopping Band edge

Spectrum Parameter	Setting
Detector	Peak
Start/Stan Fraguanay	Lower Band Edge: 2300– 2403 MHz
Start/Stop Frequency	Upper Band Edge: 2479 – 2500 MHz
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold







The EUT is connected to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. Tune the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, the span is set to be greater than RBW.

4.4 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

### **4.5 TEST RESULTS**



# 5. NUMBER OF HOPPING CHANNEL

### 5.1 LIMIT

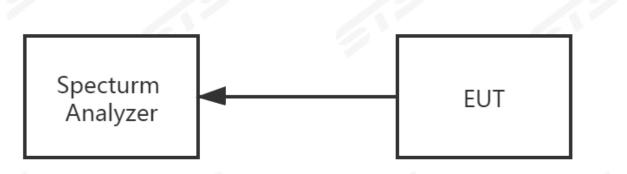
	FCC Pa	art 15.247,Subpa	rt C	
Section	Test Item	Limit	FrequencyRange (MHz)	Result
15.247 (a)(1)(iii)	Number of Hopping Channel	≥15	2400-2483.5	PASS

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> Operating FrequencyRange
RB	100KHz
VB	300KHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

# 5.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = Auto.

### 5.3 TEST SETUP



5.4 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

# 5.5 TEST RESULTS



# 6. AVERAGE TIME OF OCCUPANCY

### 6.1 LIMIT

 FCC Part 15.247,Subpart C					
Section	Test Item	Limit	FrequencyRange (MHz)	Result	
15.247 (a)(1)(iii)	Average Time of Occupancy	0.4sec	2400-2483.5	PASS	

### 6.2 TEST PROCEDURE

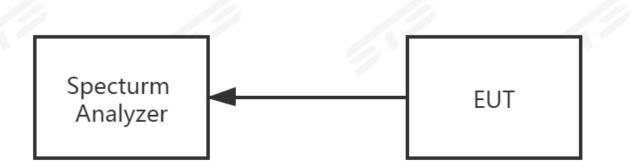
a. The transmitter output (antenna port) was connected to the spectrum analyzer.

- b. Set RBW =1MHz/VBW =3MHz.
- c. Use a video trigger with the trigger level set to enable triggering only on full pulses.
- d. Sweep Time is more than once pulse time.
- Set the center frequency on any frequency would be measure and set the frequency span to e. zero span.
- f. Measure the maximum time duration of one single pulse.

The Dwell Time=Burst Width\*Total Hops.The detailed calculations are showed as follows: The duration for dwell time calculation: 0.4[s]\*hopping number=0.4[s]\*79[ch)=31.6[s\*ch]; Dwell Time Calculate formula:

Dwell time = pulse time (ms) x pulse number in 31.6s

6.3 TEST SETUP



# 6.4 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

### 6.5 TEST RESULTS



# 7. HOPPING CHANNEL SEPARATION MEASUREMEN

7.1 LIMIT

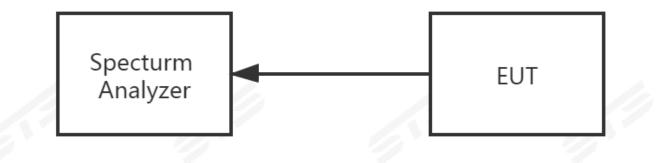
Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

Spectrum Parameter	Setting	
Attenuation	Auto	
Span Frequency	> 20 dB Bandwidth or Channel Separation	
RB	30 kHz (20dB Bandwidth) / 30 kHz (Channel Separation)	
VB	100 kHz (20dB Bandwidth) / 100 kHz (Channel Separation)	
Detector	Peak	
Trace	Max Hold	
Sweep Time	Auto	

### 7.2 TEST PROCEDURE

- a. The transmitter output (antenna port) was connected to the spectrum analyser in peak hold mode.
- b. The resolution bandwidth of 30 kHz and the video bandwidth of 100 kHz were utilised for 20 dB bandwidth measurement.
- c. The resolution bandwidth of 30 kHz and the video bandwidth of 100 kHz were utilised for channel separation measurement.

7.3 TEST SETUP



# 7.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

# 7.5 TEST RESULTS



# 8. BANDWIDTH TEST

# 8.1 LIMIT

FCC Part15 15.247,Subpart C					
Section	Test Item	Limit	FrequencyRange (MHz)	Result	
15.247 (a)(1)	Bandwidth	N/A	2400-2483.5	PASS	

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RB	30 kHz (20dB Bandwidth) / 30 kHz (Channel Separation)
VB	100 kHz (20dB Bandwidth) / 100 kHz (Channel Separation)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

### **8.2 TEST PROCEDURE**

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting: RBW= 30KHz, VBW=100KHz, Sweep time = Auto.

### 8.3 TEST SETUP



**8.4 EUT OPERATION CONDITIONS** 

Please refer to section 3.1.4 of this report.

# 8.5 TEST RESULTS



## 9. OUTPUT POWER TEST

9.1 LIMIT

	8											
	FCC Part 15.247,Subpart C											
Sec	tion	Test Item	Limit	Frequency Range (MHz)	Result							
		1	1 W or 0.125W									
	247 &(b)(1)	Output Power	if channel separation > 2/3 bandwidthprovided thesystems operatewith an output power no greater than125 mW(20.97dBm)	2400-2483.5	PASS							

## 9.2 TEST PROCEDURE

This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. The hopping shall be disabled for this test:

a) Use the following spectrum analyzer settings:

1) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.

2) RBW > 20 dB bandwidth of the emission being measured.

3) VBW ≥ RBW.

4) Sweep: Auto.

5) Detector function: Peak.

6) Trace: Max hold.

b) Allow trace to stabilize.

c) Use the marker-to-peak function to set the marker to the peak of the emission.

d) The indicated level is the peak output power, after any corrections for external attenuators and cables.

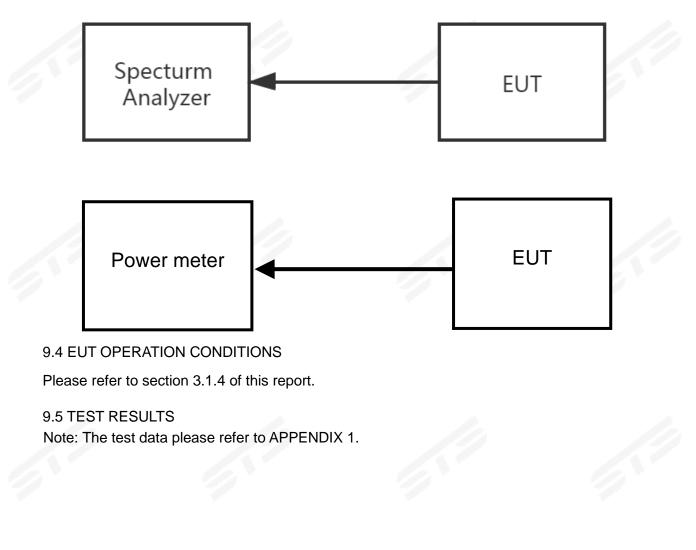
e) A plot of the test results and setup description shall be included in the test report.

NOTE—A peak responding power meter may be used, where the power meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum analyzer.

PKPM1 Peak power meter method:

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DSS bandwidth and shall use a fast-responding diode detector.







## **10. ANTENNA REQUIREMENT**

## **10.1 STANDARD 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.

## 10.2 EUT ANTENNA

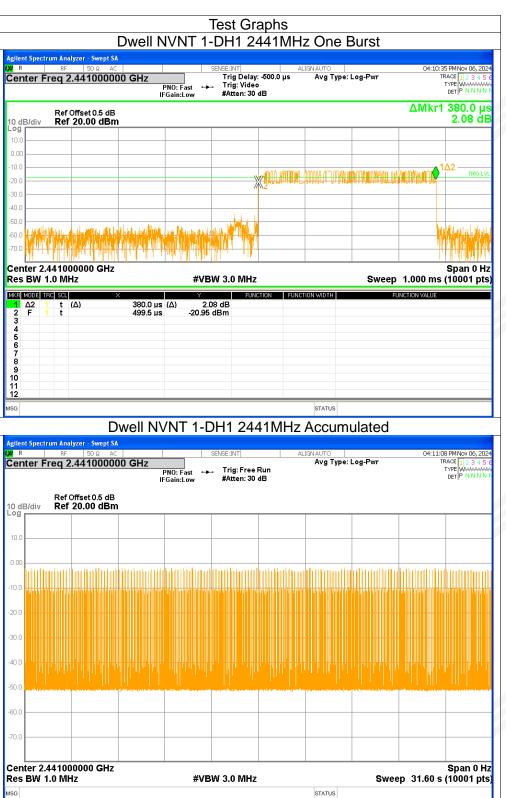
The EUT antenna is PCB Antenna. It comply with the standard requirement.



# 1. Dwell Time

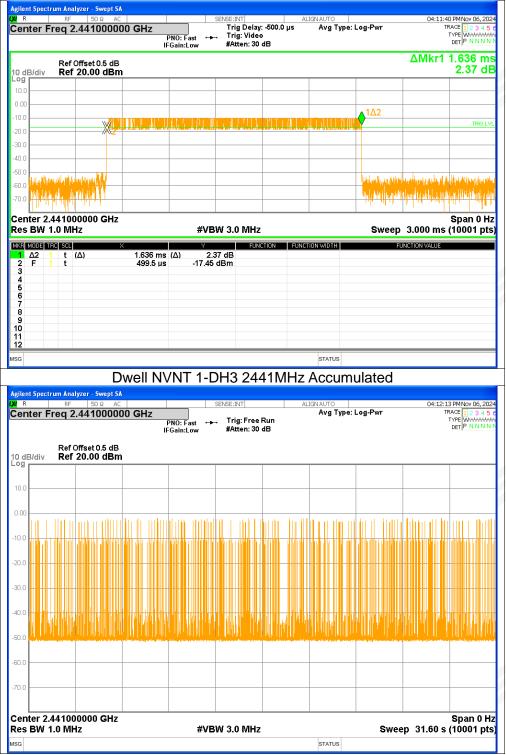
1. Dwell Time										
Condition	Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict		
NVNT	1-DH1	2441	0.38	121.22	319	31600	<=400	Pass		
NVNT	1-DH3	2441	1.636	271.576	166	31600	<=400	Pass		
NVNT	1-DH5	2441	2.884	285.516	99	31600	<=400	Pass		
NVNT	2-DH1	2441	0.389	124.48	320	31600	<=400	Pass		
NVNT	2-DH3	2441	1.642	249.584	152	31600	<=400	Pass		
NVNT	2-DH5	2441	2.889	329.346	114	31600	<=400	Pass		
NVNT	3-DH1	2441	0.389	124.091	319	31600	<=400	Pass		
NVNT	3-DH3	2441	1.64	247.64	151	31600	<=400	Pass		
NVNT	3-DH5	2441	2.891	265.972	92	31600	<=400	Pass		





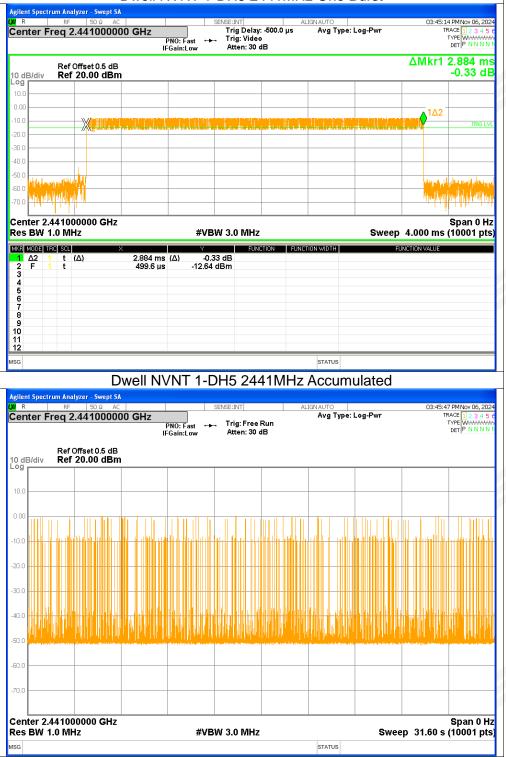


### Dwell NVNT 1-DH3 2441MHz One Burst



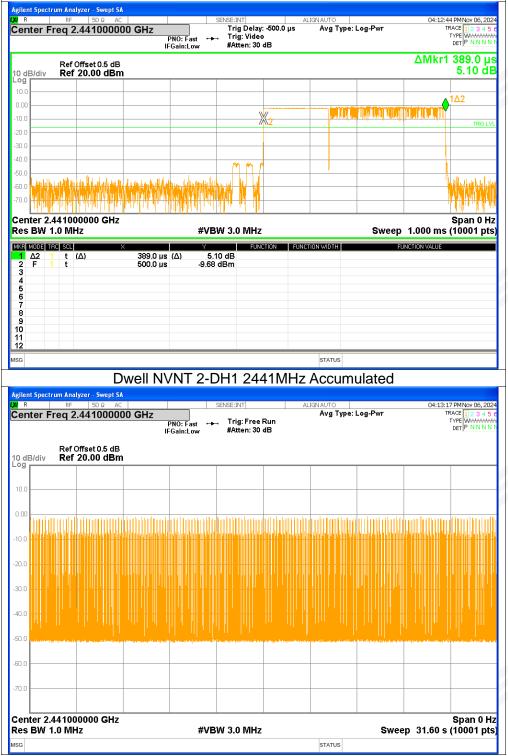








## Dwell NVNT 2-DH1 2441MHz One Burst



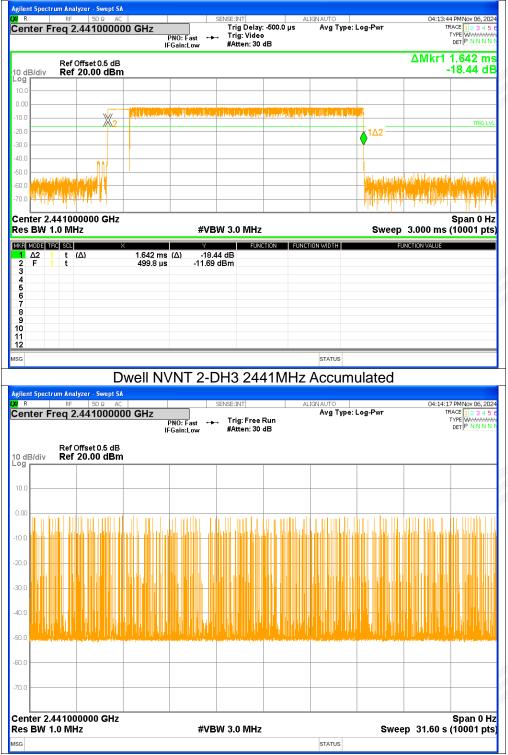
19

7

\*

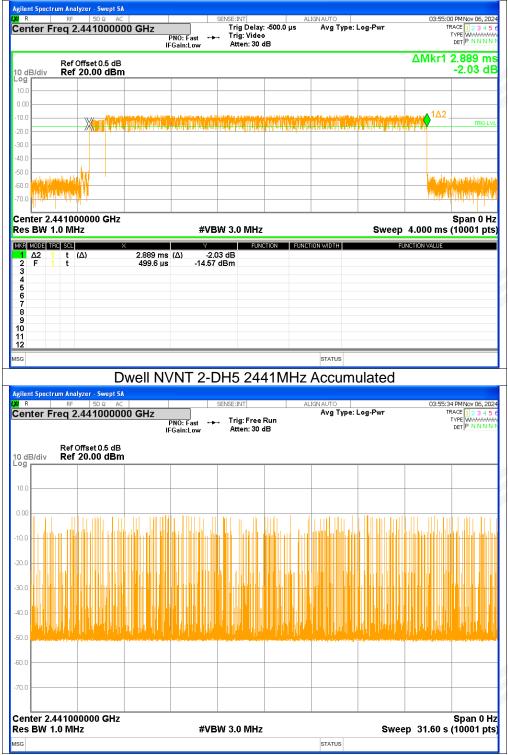


### Dwell NVNT 2-DH3 2441MHz One Burst





## Dwell NVNT 2-DH5 2441MHz One Burst

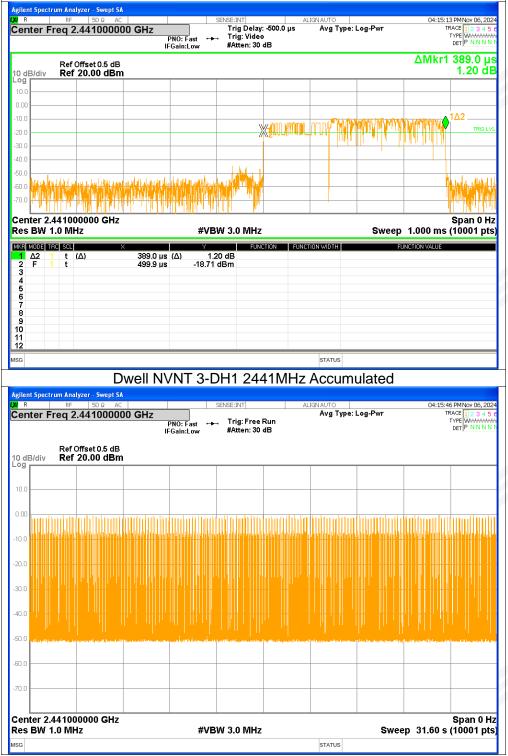


1

2



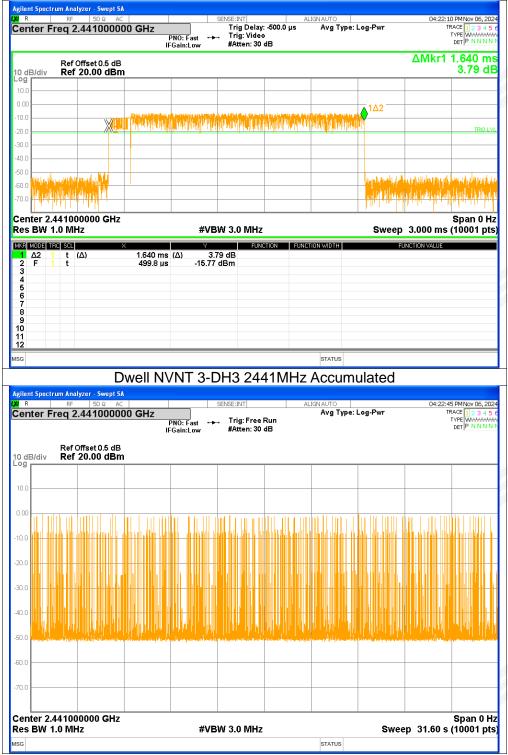
## Dwell NVNT 3-DH1 2441MHz One Burst



19

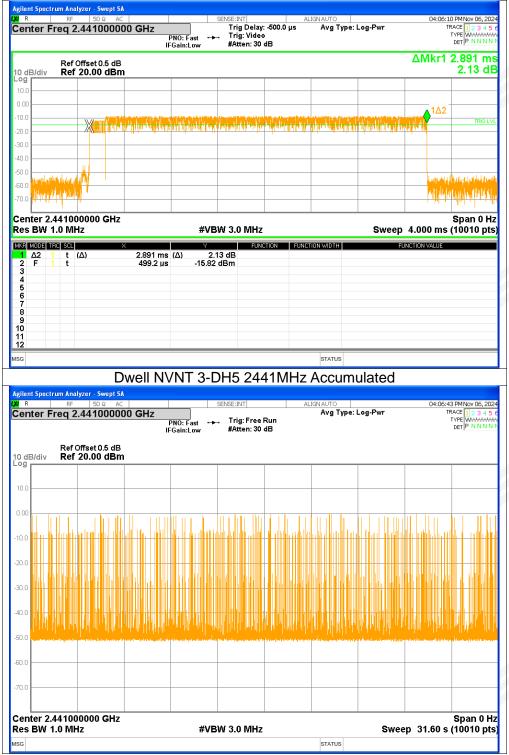


### Dwell NVNT 3-DH3 2441MHz One Burst





## Dwell NVNT 3-DH5 2441MHz One Burst



11



## 2. Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	-0.47	<=20.97	Pass
NVNT	1-DH5	2441	-0.72	<=20.97	Pass
NVNT	1-DH5	2480	-0.09	<=20.97	Pass
NVNT	2-DH5	2402	-0.42	<=20.97	Pass
NVNT	2-DH5	2441	-0.67	<=20.97	Pass
NVNT	2-DH5	2480	-0.03	<=20.97	Pass
NVNT	3-DH5	2402	-0.2	<=20.97	Pass
NVNT	3-DH5	2441	-0.49	<=20.97	Pass
NVNT	3-DH5	2480	0.14	<=20.97	Pass



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#### Peak Power NVNT 1-DH5 2480MHz t Spectrum Analyzer - Swept SA 03:41:37 PMNov 06, 202 TRACE 1 2 3 4 5 TYPE M WWWW DET P N N N N R SENSE:INT Center Freq 2.480000000 GHz Avg Type: Log-Pwr Avg|Hold: 10/10 PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 30 dB Mkr1 2.480 042 GHz -0.093 dBm Ref Offset 0.5 dB Ref 20.00 dBm 10 dB/div Log 10.0 0.00 -20.0 30.0 -40 r albhile, lak افقالاتك ا -50.0 -60.0 70 r Span 10.00 MHz #Sweep 150 ms (10001 pts) Center 2.480000 GHz #Res BW 2.0 MHz #VBW 6.0 MHz STATUS MSG Peak Power NVNT 2-DH5 2402MHz nt Spectrum Analyzer - Swept SA R 03:47:39 PM Nov 06, 202 TRACE 1 2 3 4 5 TYPE M WWWWW DET P N N N N Center Freq 2.402000000 GHz Avg Type: Log-Pwr Avg|Hold: 10/10 PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 30 dB Mkr1 2.401 984 GHz Ref Offset 0.5 dB Ref 20.00 dBm -0.419 dBm 10 dB/div Log 10.0 0.0 20.0 30. -40.C the bud a -50.0 -60 | Center 2.402000 GHz Span 10.00 MHz #Sweep 150 ms (10001 pts) #Res BW 2.0 MHz #VBW 6.0 MHz STATUS MSG

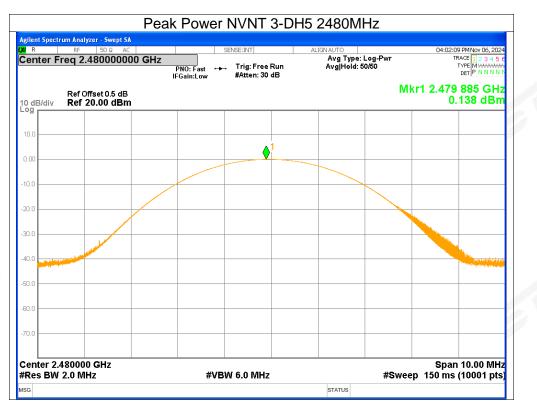


#### Peak Power NVNT 2-DH5 2441MHz t Spectrum Analyzer - Swept SA 03:50:23 PM Nov 06, 202 TRACE 1 2 3 4 5 TYPE M WWWW DET P N N N N R SENSE:INT Center Freq 2.441000000 GHz Avg Type: Log-Pwr Avg|Hold: 50/50 PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 30 dB Mkr1 2.440 933 GHz -0.674 dBm Ref Offset 0.5 dB Ref 20.00 dBm 10 dB/div Log 10.0 0.00 -20.0 30.0 -40 r يدرقا وتقتر والمأه -50.0 -60.0 70 r Span 10.00 MHz #Sweep 150 ms (10001 pts) Center 2.441000 GHz #VBW 6.0 MHz #Res BW 2.0 MHz STATUS MSG Peak Power NVNT 2-DH5 2480MHz nt Spectrum Analyzer - Swept SA R 03:51:36 PM Nov 06, 202 TRACE 1 2 3 4 5 TYPE M WWWWW DET P N N N N Center Freq 2.480000000 GHz Avg Type: Log-Pwr Avg|Hold: 50/50 PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 30 dB Mkr1 2.479 926 GHz Ref Offset 0.5 dB Ref 20.00 dBm -0.031 dBm 10 dB/div Log 10.0 $\diamond^1$ 0.0 20.0 30. -40.C -50.0 -60 | Center 2.480000 GHz Span 10.00 MHz #Sweep 150 ms (10001 pts) #Res BW 2.0 MHz #VBW 6.0 MHz STATUS MSG



#### Peak Power NVNT 3-DH5 2402MHz t Spectrum Analyzer - Swept SA 39 PM Nov 06, 202 TRACE 1 2 3 4 5 TYPE MWWWW DET P N N N N R SENSE:INT Center Freq 2.402000000 GHz Avg Type: Log-Pwr Avg|Hold: 100/100 PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 30 dB Mkr1 2.402 014 GHz Ref Offset 0.5 dB Ref 20.00 dBm -0.200 dBm 10 dB/div Log 10.0 0.00 -20.0 30.0 -40 r -50.0 -60.0 70 r Span 10.00 MHz #Sweep 150 ms (10001 pts) Center 2.402000 GHz #VBW 6.0 MHz #Res BW 2.0 MHz STATUS MSG Peak Power NVNT 3-DH5 2441MHz nt Spectrum Analyzer - Swept SA 04:00:48 PMNov 06, 202 TRACE 1 2 3 4 5 TYPE M WWWW DET P N N N N R Center Freq 2.441000000 GHz Avg Type: Log-Pwr Avg|Hold: 50/50 PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 30 dB Mkr1 2.440 963 GHz Ref Offset 0.5 dB Ref 20.00 dBm -0.490 dBm 10 dB/div Log 10.0 0.0 -20.0 30.0 -40.C -50.0 -60.1 Center 2.441000 GHz Span 10.00 MHz #Sweep 150 ms (10001 pts) #Res BW 2.0 MHz #VBW 6.0 MHz STATUS MSG



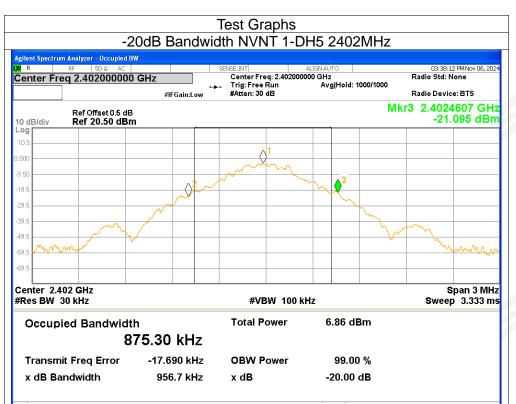


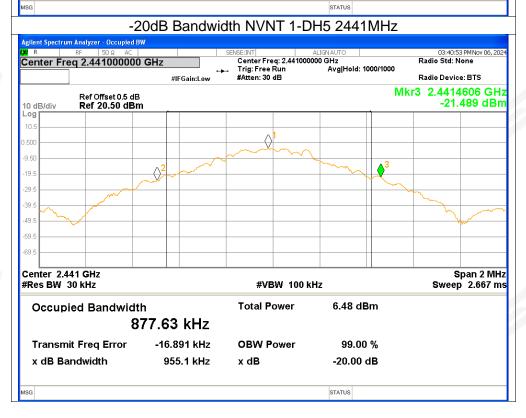


## 3. -20dB Bandwidth

Condition	Mode	Frequency (MHz)	-20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	0.9567	Pass
NVNT	1-DH5	2441	0.9551	Pass
NVNT	1-DH5	2480	0.9497	Pass
NVNT	2-DH5	2402	1.4869	Pass
NVNT	2-DH5	2441	1.4422	Pass
NVNT	2-DH5	2480	1.4848	Pass
NVNT	3-DH5	2402	1.4808	Pass
NVNT	3-DH5	2441	1.4809	Pass
NVNT	3-DH5	2480	1.4783	Pass







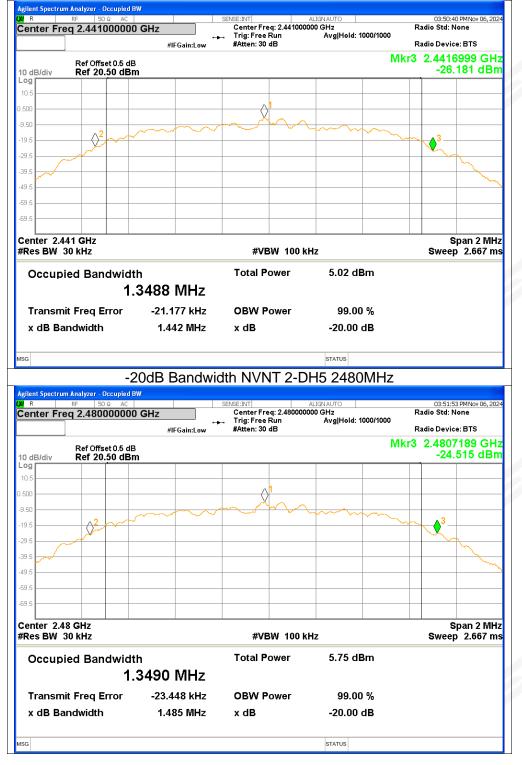








## -20dB Bandwidth NVNT 2-DH5 2441MHz

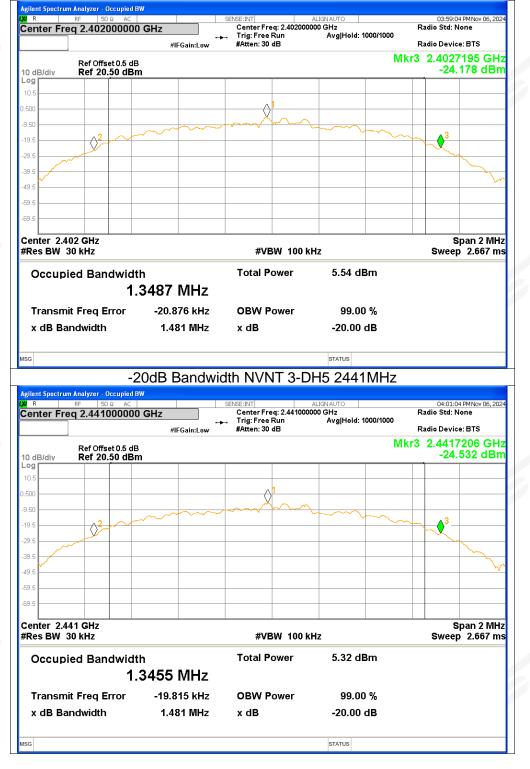


1





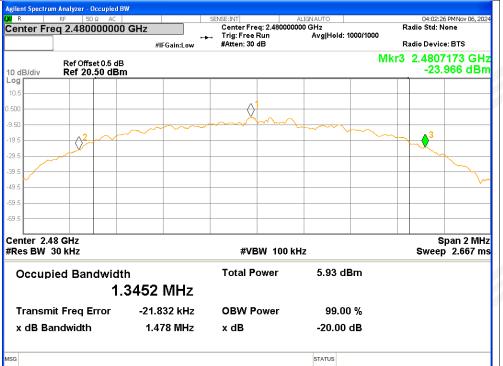
## -20dB Bandwidth NVNT 3-DH5 2402MHz



6.9









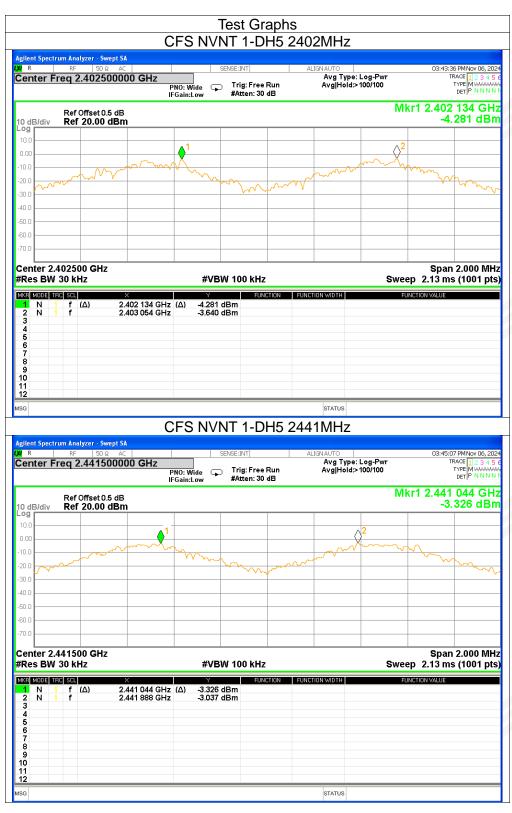
## 4. Carrier Frequencies Separation

Condition	Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	2402.134	2403.054	0.92	>=0.638	Pass
NVNT	1-DH5	2441.044	2441.888	0.844	>=0.637	Pass
NVNT	1-DH5	2478.972	2479.948	0.976	>=0.633	Pass
NVNT	2-DH5	2401.98	2403.038	1.058	>=0.991	Pass
NVNT	2-DH5	2440.802	2442.068	1.266	>=0.961	Pass
NVNT	2-DH5	2478.968	2479.98	1.012	>=0.99	Pass
NVNT	3-DH5	2401.988	2403.09	1.102	>=0.987	Pass
NVNT	3-DH5	2441.092	2442.138	1.046	>=0.987	Pass
NVNT	3-DH5	2479.044	2480.162	1.118	>=0.986	Pass



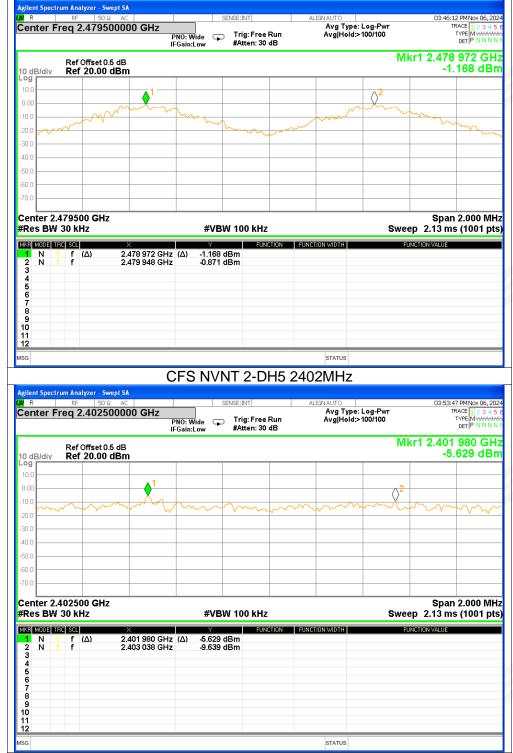
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#### Report No.: STS2411018W01





## CFS NVNT 1-DH5 2480MHz





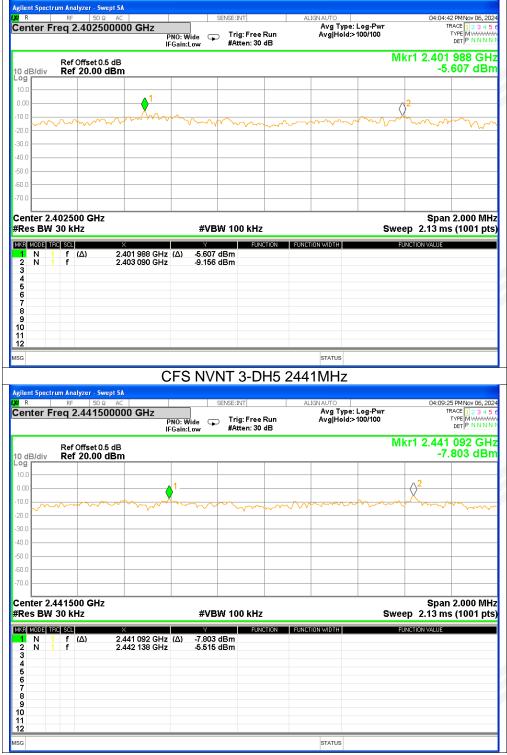
## CFS NVNT 2-DH5 2441MHz

enter F	-req 2	2.44150	0000 G	Р	NO: Wide Gain:Low		g: Free Run ten: 30 dB		Avg Type Avg Hold:	: Log-Pwr >100/100		TF	ACE 1 2 3 4 TYPE M WWW DET P N N I
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r Mode 1		(Δ)	2.440 8	02 GHz	(Δ) -8	⊻ .514 dBm	FUNCTION	FUNCTION	ON WIDTH		FUNCTION	VALUE	
2 N 3	1 f	(Δ)		68 GHz		.332 dBm							
4													
5 6													
7 B													
9													
1													
2													
3									STATUS				
3				С	FSN	IVNT	2-DH5	2480					
ilent Spect		ılyzer - Swe		С	FSN				)MHz				
ilent Spect R	RF	50 Ω	AC		FSN	IVNT SENSE:I			<b>DMHz</b>	: Log-Pwr		TF	ACE 1 2 3
ilent Spect R	RF		AC	SHz P	NO: Wide	SENSE:I	NT g: Free Run		<b>DMHz</b>	: Log-Pwr > 100/100		TF	2 PM Nov 06, RACE 1 2 3 TYPE M WWR DET P N N I
ilent Spect R	RF req 2	50 Ω 2.47950	ac   0000 G	SHz P		SENSE:I	NT			>100/100	Akr1 2	TF	TYPE MWMA DET P N N I
ilent Spect R	RF Freq 2 Ref	50 Ω	ac   0000 G dB	SHz P	NO: Wide	SENSE:I	NT g: Free Run			>100/100	/lkr1 2	.478	
ilent Spect R enter F	RF Freq 2 Ref	50 Ω 2.47950 Offset 0.5	ac   0000 G dB	SHz P	NO: Wide	SENSE:I	NT g: Free Run			>100/100	/kr1 2	.478	
ilent Spect R enter F dB/div 29	RF Freq 2 Ref	50 Ω 2.47950 Offset 0.5	ac   0000 G dB	SHz P	NO: Wide	SENSE:I	NT g: Free Run			>100/100	Akr1 2	.478	2 PMNov 06, TYPE M WWW Det P N N 968 G 892 dE
ilent Spect R enter F dB/div 29 0.0	RF Freq 2 Ref	50 Ω 2.47950 Offset 0.5	ac   0000 G dB	SHz P	NO: Wide	SENSE:I	NT g: Free Run			>100/100	Akr1 2	.478	
ilent Spect R enter F 0 dB/div 29 0.0	RF Freq 2 Ref	50 Ω 2.47950 Offset 0.5	ac   0000 G dB	SHz P	NO: Wide	SENSE:I	NT g: Free Run			>100/100	Akr1 2	.478	
ilent Spect R enter F dB/div g 0.0 .00 .00 .00 .00 .00 .00 .00 .00 .	RF Freq 2 Ref	50 Ω 2.47950 Offset 0.5	ac   0000 G dB	SHz P	NO: Wide	SENSE:I	NT g: Free Run			>100/100	Akr1 2	.478	
ilent Spect R enter F 0 dB/div 9 9 0.0 0.0 0.0 0.0 0.0 0.0 0.0	RF Freq 2 Ref	50 Ω 2.47950 Offset 0.5	ac   0000 G dB	SHz P	NO: Wide	SENSE:I	NT g: Free Run			>100/100	/kr1 2	.478	
ilent Spect R enter F 0 dB/div 9 9 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RF Freq 2 Ref	50 Ω 2.47950 Offset 0.5	ac   0000 G dB	SHz P	NO: Wide	SENSE:I	NT g: Free Run			>100/100	Akr1 2	.478	
ilent Spect R enter F 0 dB/div 9 9 0.0 0.0 0.0 0.0 0.0 0.0 0.0	RF Freq 2 Ref	50 Ω 2.47950 Offset 0.5	ac   0000 G dB	SHz P	NO: Wide	SENSE:I	NT g: Free Run			>100/100	Akr1 2	.478	
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dB/div g dB/div g g o o o o o o o o o o o o o	RF Freq 2 Ref	50 Ω 2.47950 Offset 0.5	ac   0000 G dB	SHz P	NO: Wide	SENSE:I	NT g: Free Run			>100/100	Akr1 2	.478	
dB/div g dB/div g g g g g g g g g g g g g	Ref Ref	00 GHz	ac   0000 G dB	SHz P	NO: Wide Gain:Low		g: Free Run ten: 30 dB			< 100/100		2.478 -3.	2.0000 N
Ilent Spect R enter F O dB/div 2 g	Ref Ref 	000 GHz	dB Bm	SHz P	NO: Wide Gain:Low	SENSE:I	nti g: Free Run ten: 30 dB		DMHZ	>100/100	eep 2.	2.478 -3.	
Ident Spect         R         enter F         Ide/div	47956 41 50 501	000 GHz			NO: Wide Gain:Low	SENSE:	nti g: Free Run ten: 30 dB		DMHZ	>100/100		2.478 -3.	2.0000 N
Ident Spect         R         enter F         Ide/div	47950 47950	00 GHz		SHz P IF	NO: Wide Gain:Low	SENSE: Tri #A	nti g: Free Run ten: 30 dB		DMHZ	>100/100	eep 2.	2.478 -3.	2.0000 N
Ident Spect         R         enter F         Ide/div	47956 41 50 501	50 2 2.47950 20.00 d			NO: Wide Gain:Low	SENSE:	nti g: Free Run ten: 30 dB		DMHZ	>100/100	eep 2.	2.478 -3.	2.0000 N
Ident Spect         R         enter F         Ide/div	47956 41 50 501	50 2 2.47950 20.00 d			NO: Wide Gain:Low	SENSE:	nti g: Free Run ten: 30 dB		DMHZ	>100/100	eep 2.	2.478 -3.	2.0000 N
Ident Spect         R         enter F         Ide/div	47956 41 50 501	50 2 2.47950 20.00 d			NO: Wide Gain:Low	SENSE:	nti g: Free Run ten: 30 dB		DMHZ	>100/100	eep 2.	2.478 -3.	2.0000 N
Ilent Spect R enter F od B/div 2 g	4795/d	50 2 2.47950 20.00 d			NO: Wide Gain:Low	SENSE:	nti g: Free Run ten: 30 dB		DMHZ	>100/100	eep 2.	2.478 -3.	2.0000 N
Ident Spect         R         enter F         Ide/div	4795/d	50 2 2.47950 20.00 d			NO: Wide Gain:Low	SENSE:	nti g: Free Run ten: 30 dB		DMHZ	>100/100	eep 2.	2.478 -3.	2.0000 N



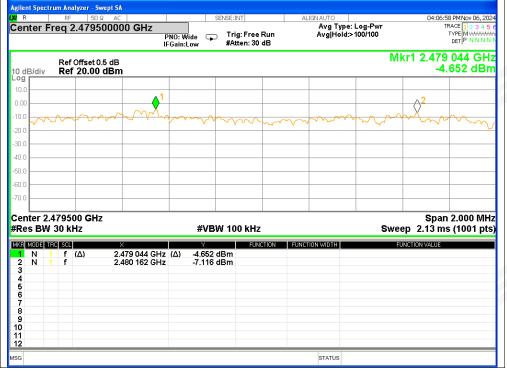
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CFS NVNT 3-DH5 2480MHz





## 5. Number of Hopping Channel

Condition	Mode	Hopping Number	Limit	Verdict
NVNT	1-DH5	79	>=15	Pass
NVNT	2-DH5	79	>=15	Pass
NVNT	3-DH5	79	>=15	Pass





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**Test Graphs** Hopping No. NVNT 1-DH5 Hopping 12 PM Nov 06, 2 Center Freq 2.441750000 GHz Avg Type: Log-Pw Avg|Hold:>100/100 Trig: Free Run #Atten: 30 dB DET P N N N N PNO: Fast IFGain:Low  $\mathbf{r}$ Mkr1 2.401 920 5 GHz Ref Offset 0.5 dB Ref 20.00 dBm -1.838 dBm 10 dB/div Log  $\langle \rangle$ 0.00 ╈┿╀┥┥┽╬╢╢╖┑╬╠╬╖╢╗┍╎┾╠╠┾┽╪╫╍╖┾╗┝┾╝╅┾╼┾╠ <u>AAAAAAAAAAAAAAAaaa</u> 20.0 30.0 -40.0 -50.0 60.0 Start 2.40000 GHz #Res BW 100 kHz Stop 2.48350 GHz #VBW 300 kHz Sweep 8.00 ms (1001 pts) FUNCTION FUNCTION WIDTH MKR MODE TRC SCL UNCTION VALUE f (Δ) f 2.401 920 5 GHz (Δ) 2.480 160 0 GHz -1.838 dBm 0.983 dBm 1 N N 2 3 4 5 6 7 8 9 10 11 12 STATUS MSG Hopping No. NVNT 2-DH5 Hopping trum Analyzer - Swept SA <mark>ໝ</mark> R RF 50 Ω AC Center Freq 2.441750000 GHz 03:54:12 PM Nov 06, 202 TRACE 1 2 3 4 5 TYPE MWWWW DET P N N N N Avg Type: Log-Pwi Avg|Hold:>100/100 Trig: Free Run #Atten: 30 dB PNO: Fast 😱 IFGain:Low Mkr1 2.401 753 5 GHz -5.810 dBm Ref Offset 0.5 dB Ref 20.00 dBm 10 dB/div Log 0.00 M. May A. A. Marker and Marker -20.0 30.0 -40 r -50.0 -60.0 70.1 Start 2.40000 GHz #Res BW 100 kHz Stop 2.48350 GHz #VBW 300 kHz Sweep 8.00 ms (1001 pts) MKR MODE TRC SCL FUNCTION WIDTH INFTION 2.401 753 5 GHz (Δ) 2.480 494 0 GHz -5.810 dBm -6.853 dBm (Δ) 1 2 3 4 5 6 7 8 9 10 11 12 N N f f STATUS ISG



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Hopping No. NVNT 3-DH5 Hopping

R		RF	50	Swept SA ງ ລ ລດ 75000	00 GHz			ENSE:INT		ALIGNAUTO Avg T	/pe: Log-Pwr	04	4:05:08 PM Nov 06, 2 TRACE 1 2 3 4 TYPE MWWWW	56
			Offset			PNO: F IFGain:		Trig: Free #Atten: 30		Avg Ho	iid:>1007100 ∭	kr1 2.40	DET P N N N	N N
de 9 0.0 .00	3/div	1		0 dBm								n N (m, 1), 1	-5.617 dB	m
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## 6. Band Edge

Condition	Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	No-Hopping	-44.97	<=-20	Pass
NVNT	1-DH5	2480	No-Hopping	-42.67	<=-20	Pass
NVNT	2-DH5	2402	No-Hopping	-44.11	<=-20	Pass
NVNT	2-DH5	2480	No-Hopping	-40.55	<=-20	Pass
NVNT	3-DH5	2402	No-Hopping 💚	-46.61	<=-20	Pass
NVNT	3-DH5	2480	No-Hopping	-39.58	<=-20	Pass



















#### **Test Graphs** Band Edge NVNT 1-DH5 2402MHz No-Hopping Ref rum Analyzer - Swept SA PM Nov 06, 20 Center Freq 2.402000000 GHz Avg Type: Log-Pwi Avg|Hold: 100/100 TRACE TYPE MWWWW DET P N N N N Trig: Free Run #Atten: 30 dB PNO: Wide IFGain:Low Mkr1 2.402 136 GHz Ref Offset 0.5 dB Ref 20.00 dBm -0.560 dBm 10 dB/div Log 10.0 **∮**<sup>1</sup> 0.00 20.0 30. 40. -50.0 -60.0 Center 2.402000 GHz #Res BW 100 kHz Span 8.000 MHz #Sweep 100 ms (1001 pts) #VBW 300 kHz STATUS MSG Band Edge NVNT 1-DH5 2402MHz No-Hopping Emission trum Analyzer - Swept SA ଆ ନ ା ନ⊧ 50 ହ AC | Center Freq 2.356000000 GHz 03:38:49 PM Nov 06, 2024 Avg Type: Log-Pwr Avg|Hold: 200/200 TRACE 1 2 3 4 5 TYPE MWWW DET P N N N N Trig: Free Run #Atten: 30 dB PNO: Fast 🔸 Mkr1 2.402 1 GHz -0.575 dBm Ref Offset 0.5 dB Ref 20.00 dBm 10 dB/div Log 0.00 10. -20.1 30.0 -40 r -50.0 -60.0 70.0 Start 2.30600 GHz #Res BW 100 kHz Stop 2.40600 GHz #VBW 300 kHz #Sweep 100 ms (1001 pts) MKR MODE TRC SCL UNCTION FUNCTION WIDTH 2.402 1 GHz (Δ) 2.400 0 GHz 2.400 0 GHz 2.400 0 GHz -0.575 dBm -45.530 dBm -45.530 dBm -45.530 dBm (Δ) 1 2 3 4 5 6 7 8 9 10 11 12 N N N N f f f STATUS ISG



	u <mark>m Analyzer - Swept</mark> RF 50 Ω	SA	IVNT 1-E	ENSE:INT	AL	IGN AUTO			3:42:00 PM	Nov 06, 2024
	eq 2.480000	000 GHz	PNO: Wide ↔→ FGain:Low	Trig: Free F #Atten: 30 o	Run	Avg Type: Avg Hold: 1	Log-Pwr 00/100		TRACE	123456 M <del>wwww</del> PNNNNN
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B/div B/div Trt 2.47 s BW	Band E Im Analyzer - Swept RF 50 2 req 2.526000 Ref Offset 0.5 d Ref 20.00 dE 4 4 600 GHz 100 kHz 6 SCL	SA AC     000 GHz   B m - - - - - - - - - - - - -	VT 1-DH SE PN0: Fast → Gain:Low #VBW (Δ) −0.281 d	5 2480 NSE:INT Trig: Free F #Atten: 30 d	AL Run	O-HOPP	Log-Pwr 00/100	Mkr1	DIN 18:42:12 PM TRACE TYPE 2.480 -0.28	Nov 06, 2024 12 3 4 5 6 MY WAYNAWA P NN N N N 0 GHz 1 dBm -20.18 dBm -20.18 dBm
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Spectrum Analyzer - Swept RF 50 Ω er Freq 2.356000 Ref Offset 0.5 c	B	SENSE	E:INT	Z NO-HOPP	og-Pwr o/100	03:48:3 T Mkr1 2.4 -2.	
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ent Spectrum Analy	Band Edge					
R RF	50 Ω AC   480000000 GH	Z PNO: Wide ↔ IFGain:Low	SENSE:INT ⊢ Trig: Free Run #Atten: 30 dB	ALIGNAUTO Avg Type: Lo Avg Hold: 100	g-Pwr /100	3:52:08 PMNov 06, 2024 TRACE 1 2 3 4 5 6 TYPE MWMMM DET P N N N N
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es BW 100 kH Ba	nd Edge N			status Iz No-Hoppir	#Sweep 10	0 ms (1001 pts)
Bann Spectrum Analy RF	nd Edge N	IVNT 2-DI	H5 2480MH	Iz No-Hoppir	#Sweep 10 ng Emissic	0 ms (1001 pts) )N 3:52:11 PMNov 06, 2024 TRACE 2 3 4 5 6
BW 100 KH Ba nt Spectrum Analy RF nter Freq 2.	ind Edge Ν ser - Swept SA S0 Ω AC S26000000 GH	IVNT 2-DI	H5 2480MH	Iz No-Hoppin	#Sweep 10	0 ms (1001 pts) 20 19:52:11 PMNov 06, 2024 TRACE 1 2 3 4 5 6 TYPE M WWWWW DET P N N N N
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BW 100 kH	Iz Ind Edge N Iso Ω AC 526000000 GH: Tiset 0.5 dB	IVNT 2-DI z PN0: Fast →	H5 2480MH SENSE:INT → Trig: Free Run	Iz No-Hoppir	#Sweep 10	0 ms (1001 pts) 0 m 3:52:11 PMNov 06, 2024 TRACE 1 2 3 4 5 6 TYPE MAXWWWW 0 ET PN NNN 2.480 1 GHz -2.494 dBm
Balant Spectrum Analy Ref Or a Balant Spectrum Analy Ref Or a Balant Ref	Iz Ind Edge N Iso Ω AC 526000000 GH: Tiset 0.5 dB	IVNT 2-DI z PN0: Fast →	H5 2480MH SENSE:INT → Trig: Free Run	Iz No-Hoppir	#Sweep 10	0 ms (1001 pts) 0 m 3:52:11 PMNov 06, 2024 TRACE 1 2 3 4 5 6 TYPE MAXWWWW 0 ET PN NNN 2.480 1 GHz -2.494 dBm
es BW 100 kł Ba ent Spectrum Analy R P mter Freq 2.	Iz Ind Edge N Iso Ω AC 526000000 GH: Tiset 0.5 dB	IVNT 2-DI z PN0: Fast →	H5 2480MH SENSE:INT → Trig: Free Run	Iz No-Hoppir	#Sweep 10	0 ms (1001 pts) 0 ms (1001 pts) 0 m 152:11 PMNov 06, 2024 1784CE [1-3 4 5 c 1796 M H N N N 2.480 1 GHz -2.494 dBm 22.28 dbm 22.28 dbm
Bart Spectrum Analy R Ref Or Bart Spectrum Analy R Ref Or Ref Or Comparison Ref Or Comparison	Iz Ind Edge N Iso 2 AC ISO 2 AC	IVNT 2-Di	H5 2480MH	Iz No-Hoppin	#Sweep 10	0 ms (1001 pts) 0 m 0.52:11 PMNov 06, 2024 1784CE [] 3 4 5 C 1796 [] 3 4 5 C 1797 [] 3 4 5 C 1797 [] 3 4 5 C 1797 [] 4 C 1797 [
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t Spectrum Analyzer - Sv					· •		
RF 50		SENSE:II		ALIGNAUTO Avg Type: Lo		TR.	PM Nov 06, 2024 ACE 1 2 3 4 5 6
•	Р		g: Free Run ten: 30 dB	Avg Hold: 100			YPE MWWWWWM DET P N N N N N
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nter 2.402000 GHz es BW 100 kHz	2						8.000 MHz
	Edge NVN	#VBW 30		status 7 No-Hoddii			(1001 pts)
Band ent Spectrum Analyzer - Sv	wept SA	IT 3-DH5 2	2402MHz	z No-Hoppii		sion	
Band ent Spectrum Analyzer - Sv	wept SA Ω AC 000000 GHz	IT 3-DH5 2	2402MHz	Z NO-HOPPII Alignauto Avg Type: Lo	ng Emis <sub>g-Pwr</sub>	Sion 03:59:30 TR.	PM Nov 06, 2024 ACE 1 2 3 4 5 6 YPE M MARAAAAA
Band	wept SA Ω AC     000000 GHz		2402MHz	z No-Hoppii	ng Emis g-Pwr /100	SSION 03:59:30 TR. T	PMNov 06, 2024 ACE 12 3 4 5 6 YPE M MANAMAA DET P N N N N N
Band	wept SA Ω AC     000000 GHz F IF I5 dB	IT 3-DH5 2	2402MHz	Z NO-HOPPII Alignauto Avg Type: Lo	ng Emis g-Pwr /100	Sion 03:59:30 TR T tr	PM Nov 06, 2024 ACE 1 2 3 4 5 6 YPE M MARAAAAA
Band	wept SA Ω AC     000000 GHz F IF I5 dB	IT 3-DH5 2	2402MHz	Z NO-HOPPII Alignauto Avg Type: Lo	ng Emis g-Pwr /100	Sion 03:59:30 TR T tr	PMNov 06, 2024 ACE 12 3 4 5 6 YPE M MANAMA Det P N N N N 2 0 GHz
Band	wept SA Ω AC     000000 GHz F IF I5 dB	IT 3-DH5 2	2402MHz	Z NO-HOPPII Alignauto Avg Type: Lo	ng Emis g-Pwr /100	Sion 03:59:30 TR T tr	PMNov 06, 2024 ACE 12 3 4 5 6 YPE M MANAMA Det P N N N N 2 0 GHz
Band	wept SA Ω AC     000000 GHz F IF I5 dB	IT 3-DH5 2	2402MHz	Z NO-HOPPII Alignauto Avg Type: Lo	ng Emis g-Pwr /100	Sion 03:59:30 TR T tr	PMNov 06, 2024 ACE 12 3 4 5 6 YPE M MANAMA Det P N N N N 2 0 GHz
Band	wept SA Ω AC     000000 GHz F IF I5 dB	IT 3-DH5 2	2402MHz	Z NO-HOPPII Alignauto Avg Type: Lo	ng Emis g-Pwr /100	Sion 03:59:30 TR T tr	PMNov 06, 2024 ACE 12 3 4 5 6 YPE M MANAMA Det P N N N N 2 0 GHz
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Band	wept SA Ω AC     000000 GHz F IF I5 dB	IT 3-DH5 2	2402MHz	Z NO-HOPPII Alignauto Avg Type: Lo	ng Emis g-Pwr /100	Sion 03:59:30 TR T tr	PMNov 06, 2024 ACE 12 3 4 5 6 YPE M MANAMA Det P N N N N 2 0 GHz
Band	wept SA Ω AC     000000 GHz F IF I5 dB	IT 3-DH5 2	2402MHz	Z NO-HOPPII Alignauto Avg Type: Lo	ng Emis g-Pwr /100	ssion 03:59:30 IR T Kr1 2.40 -2.7	PMNov 06, 2024 ACE 12.3 4 5 6 VPE M WANNAN 22 0 GHz 764 dBm 1 
Band	wept SA Ω AC     000000 GHz F IF I5 dB	IT 3-DH5 2	2402MHz xt	Z NO-HOPPII Alignauto Avg Type: Lo	g-Pwr /100	03:59:30 R R T Kr1 2.40 -2.7 Stop 2.4	PMNov 06, 2024 ACE 12 3 4 5 6 YPE M MANAMA Det P N N N N 2 0 GHz
Band	wept SA           2         AC           1000000 GHz           Is dB           dBm	IT 3-DH5 2	2402MHz vt	Z NO-HOPPII Alignauto Avg Type: Lo	g-Pwr /100 M #Sweep	03:59:30 R R T Kr1 2.40 -2.7 Stop 2.4	PMNov 06, 2024 ACE 1 2 3 4 5 6 YPE M WANNAN 2 0 GHz 764 dBm
Band ent Spectrum Analyzer - Si R RF 50 nter Freq 2.3560 dB/div Ref 20.00 dB/div Ref 20.00 dB/d	xept SA 2 AC     100000 GHz     15 dB dBm 2 A02 0 GHz 2 402 0 GHz 2 400 0 GHz	IT 3-DH5 2 SENSE: NO: Fast → Tri Gain:Low → #At 40.266 dBm -49.266 dBm	2402MHz vt	Z No-Hoppin	g-Pwr /100 M #Sweep	ssion 03:59:30 IR -2. stop 2.40 Stop 2.40 0 100 ms	PMNov 06, 2024 ACE 1 2 3 4 5 6 YPE M WANNAN 2 0 GHz 764 dBm
Band ent Spectrum Analyzer - Si nter Freq 2.3560 Ref Offset 0 dB/div Ref 20.00 0 0 0 0 0 0 0 0 0 0 0 0	xept SA 2 AC     000000 GHz   F IF IS dB dBm dBm 	IT 3-DH5 2 SENSE: NO: Fast → Tri Gain:Low → Tri 4.1 SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENSE: SENS	2402MHz vt	Z No-Hoppin	g-Pwr /100 M #Sweep	ssion 03:59:30 IR -2. stop 2.40 Stop 2.40 0 100 ms	PMNov 06, 2024 ACE 1 2 3 4 5 6 YPE M WANNAN 2 0 GHz 764 dBm
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Band           ent Spectrum Analyzer - Si           R         RF         So           nter Freq 2.3560           dB/div         Ref Offset 0           dB/div         Ref 20.00           dB/div         Ref 20.00 </td <td>xept SA 2 AC     100000 GHz     15 dB dBm 2 A02 0 GHz 2 402 0 GHz 2 400 0 GHz</td> <td>IT 3-DH5 2 SENSE: NO: Fast → Tri Gain:Low → #At 40.266 dBm -49.266 dBm</td> <td>2402MHz vt                                      </td> <td>Z No-Hoppin</td> <td>g-Pwr /100 M #Sweep</td> <td>ssion</td> <td>PMNov 06, 2024 ACE 1 2 3 4 5 6 YPE M WANNAN 2 0 GHz 764 dBm</td>	xept SA 2 AC     100000 GHz     15 dB dBm 2 A02 0 GHz 2 402 0 GHz 2 400 0 GHz	IT 3-DH5 2 SENSE: NO: Fast → Tri Gain:Low → #At 40.266 dBm -49.266 dBm	2402MHz vt	Z No-Hoppin	g-Pwr /100 M #Sweep	ssion	PMNov 06, 2024 ACE 1 2 3 4 5 6 YPE M WANNAN 2 0 GHz 764 dBm
Band	xept SA 2 AC     100000 GHz     15 dB dBm 2 A02 0 GHz 2 402 0 GHz 2 400 0 GHz	IT 3-DH5 2 SENSE: NO: Fast → Tri Gain:Low → #At 40.266 dBm -49.266 dBm	2402MHz vt	Z No-Hoppin	g-Pwr /100 M #Sweep	ssion	PMNov 06, 2024 ACE 1 2 3 4 5 6 YPE M WANNAN 2 0 GHz 764 dBm



		d Edge N	IVINI 3-						
R	rum Analyzer - Swept RF 50 Ω req 2.480000	AC 000 GHz	PNO: Wide +++ FGain:Low	ENSE:INT Trig: Free Ru #Atten: 30 dl	un	NAUTO Avg Type: Avg Hold: 1	00/100		02:41 PM Nov 06, 20 TRACE 1 2 3 4 5 TYPE M WWWW DET P N N N N
dB/div	Ref Offset 0.5 d Ref 20.00 dE								30 144 GH •2.282 dBi
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s BW	480000 GHz 100 kHz Band E	dge NVN		w 300 кнz 15 24801	MHz No	status D-Hopp		weep 100	an 8.000 MH ms (1001 pt
ent Spect	100 kHz	AC 000 GHz	NT 3-DH	15 24801 EINSE:INT Trig: Free Ri	ALIG		bing Ei	weep 100 missior	2:53 PM Nov 06, 20 TRACE 1234 S TYPE M WWWW
ent Spect	100 kHz Band E rum Analyzer - Swept RF 50 Ω	SA AC 000 GHz I	NT 3-DH	<b>15 24801</b> Sense:INT	ALIG	D-Hopp	bing Ei	Weep 100 Missior	2:53 PM Nov 06, 20 TRACE 12345 TYPE MWWWW DET P N NNM
ent Spect R nter F dB/div	100 kHz Band E rum Analyzer - Swept RF 50 Q Treq 2.526000	B	NT 3-DH	15 24801 EINSE:INT Trig: Free Ri	ALIG	D-Hopp	bing Ei	Weep 100 Missior	ms (1001 pt 2:53 PMNov 06, 20 TRACE 12 3 4 5 TYPE MWWWW DET P N N N
ent Spect R enter F dB/div 9	100 kHz Band E rum Analyzer - Swept RF 50 Ω freq 2.526000 Ref Offset 0.5 c	B	NT 3-DH	15 24801 EINSE:INT Trig: Free Ri	ALIG	D-Hopp	bing Ei	Weep 100 Missior	2:53 PM Nov 06, 20 TRACE 12345 TYPE MWWWW DET P N NNM
dB/div 9 .0 .0	100 kHz Band E rum Analyzer - Swept RF 50 Ω freq 2.526000 Ref Offset 0.5 c	B	NT 3-DH	15 24801 EINSE:INT Trig: Free Ri	ALIG	D-Hopp	bing Ei	Weep 100 Missior	2:53 PM Nov 06, 20 TRACE 12345 TYPE MWWWW DET P N NNM
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ent Spect R snter F g g g g g g g g g g g g g	100 kHz Band E rum Analyzer - Swept F 50 2 req 2.526000 Ref Offset 0.5 c Ref 20.00 dE 1 4 76000 GHz 100 kHz F 50 F 50	SA AC	VT 3-DH PN0: Fast Gain:Low #VB1 (Δ) -2.357 -57.899 -59.649	IS 24801	ALIG	D-HOPD Avg Type: Avg Hold: 1	Log-Pwr 00/100	Weep 100 mission O4: Mkr1 2 	ms (1001 pt
ent Spect R mter F dB/div 0 0 0 0 0 0 0 0 0 0 0 0 0	100 kHz Band E rum Analyzer - Swepp Ref 25 26000 Ref Offset 0.5 c Ref 20.00 dE 1 4 4 7 7 600 GHz 100 kHz Ref (Δ)	SA           AC           OOO GHZ           II           IB           SM           2.480 0 GHZ           2.483 5 GHZ	VT 3-DH PNO: Fast → Gain:Low #VBI (Δ) -2.357 ( -57.899) -59.649 (	IS 24801	un B	D-HOPD Avg Type: Avg Hold: 1	Log-Pwr 00/100	Mkr1 2 Mkr1 2 Mkr1 2 Stopweep 100	ms (1001 pt
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# 7. Band Edge(Hopping)

Condition	Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Hopping	-54.74	<=-20	Pass
NVNT	1-DH5	2480	Hopping	-58.47	<=-20	Pass
NVNT	2-DH5	2402	Hopping	-53.68	<=-20	Pass
NVNT	2-DH5	2480	Hopping	-53.54	<=-20	Pass
NVNT	3-DH5	2402	Hopping	-52.51	<=-20	Pass
NVNT	3-DH5	2480	Hopping	-43.71	<=-20	Pass



















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ilent Spectrum Analyzer - Swe					
R RF 50 Ω center Freq 2.40200			BENSE:INT	ALIGN AUTO Avg Type: Log-Pv	
	F	PNO: Wide 🔸 Gain:Low	. Trig: Free Run #Atten: 30 dB	Avg Hold: 1000/100	DET PNNN
Ref Offset 0.5					Mkr1 2.402 856 GH
0 dB/div Ref 20.00 d	IBm				-4.012 dBr
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60.0 ratholy with a fait	VALIN				
70.0					
		g) NVN	1 2-DH5 24	402MHz Hopp	ing Emission
<mark>gilent Spectrum Analyzer - Swe</mark> R RF 50 Ω	AC		T 2-DH5 24	ALIGNAUTO	03:54:38 PM Nov 06, 202
<mark>gilent Spectrum Analyzer - Swe</mark> R RF 50 Ω	apt SA AC   10000 GHz				03:54:38 PMNov 06, 202 (r TRACE 1 2 3 4 5 10 TYPE M WARAWAY
<mark>gilent Spectrum Analyzer - Swe</mark> R RF 50 Ω	ac	PNO: Fast	SENSE: INT	ALIGN AUTO Avg Type: Log-Pv	03:54:38 PM Nov 06, 20 r TRACE 2 2 4 5 17 VE M WWWW DET P NNNN Mkr1 2.403 0 GH
ellent Spectrum Analyzer - Swe R RF 50 Ω Center Freq 2.35600 Ref Offset 0.5 0 dB/div Ref 20.00 d	pt SA AC       00000 GHz II dB	PNO: Fast	SENSE: INT	ALIGN AUTO Avg Type: Log-Pv	03:54:38 PMN0v 06, 20 r TRACE 2 3 4 5 00 TYPE MANNAV DET P NNNN Mkr1 2.403 0 GH
glient Spectrum Analyzer - Swe R R S 50 Ω Center Freq 2.35600 Ref Offset 0.5 0 dB/div Ref 20.00 d	pt SA AC       00000 GHz II dB	PNO: Fast	SENSE: INT	ALIGN AUTO Avg Type: Log-Pv	03:54:38 PMN0v 06, 20 r TRACE 2 3 4 5 00 TYPE MANNAV DET P NNNN Mkr1 2.403 0 GH
R         RF         S0 Ω           Center Freq 2.35600         Ref Offset 0.5           0 dB/div         Ref 20,00 d           10.0         0.00	pt SA AC       00000 GHz II dB	PNO: Fast	SENSE: INT	ALIGN AUTO Avg Type: Log-Pv	03:54:38 PMN0v 06, 20 r TRACE 2 3 4 5 00 TYPE MANNAV DET P NNNN Mkr1 2.403 0 GH
glient Spectrum Analyzer - Swe R RF 50 2 Center Freq 2.35600 Ref Offset 0.5 0 dB/div Ref 20.00 d P9 0.0 0.00 10.0	pt SA AC       00000 GHz II dB	PNO: Fast	SENSE: INT	ALIGN AUTO Avg Type: Log-Pv	03:54:38 PMN0v 06, 20 TRACE 12 3 4 5 00 TVYE MAMMAN DET P NNNN Mkr1 2.403 0 GH -3.071 dBr
R         RF         S0 2           Center Freq 2.35600         Ref Offset 0.5           0 dB/div         Ref 20.00 d           0.00	pt SA AC       00000 GHz II dB	PNO: Fast	SENSE: INT	ALIGN AUTO Avg Type: Log-Pv	03:54:38 PMN0v 06, 20 r TRACE 2 3 4 5 00 TYPE MANNAV DET P NNNN Mkr1 2.403 0 GH
glient Spectrum Analyzer - Swe R RF 50 Ω Center Freq 2.35600 Ref Offset 0.5 0 dB/div Ref 20.00 d °9	pt SA AC       00000 GHz II dB	PNO: Fast	SENSE: INT	ALIGN AUTO Avg Type: Log-Pv	03:54:38 PMNbv 06, 202 TRACE 12 3 4 5 D0 TYPE MWWWW DET P NNNN Mkr1 2.403 0 GH -3.071 dBn
glient Spectrum Analyzer - Swe           R         RF         50 @           Center Freq 2.35600         Ref Offset 0.5         Ref Offset 0.5           No.0         Ref 20.00 d         Ref 20.00 d           0.0         0.00         0.00         0.00           0.0         0.00         0.00         0.00           0.0         0.00         0.00         0.00         0.00           0.0         0.00         0.00         0.00         0.00         0.00           0.0         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00	pt SA AC       00000 GHz II dB	PNO: Fast	SENSE: INT	ALIGN AUTO Avg Type: Log-Pv	03:54:38 PMNbv 06, 202 TRACE 12 3 4 5 D0 TYPE MWWWW DET P NNNN Mkr1 2.403 0 GH -3.071 dBn
glient Spectrum Analyzer - Swe           R         RF         50 @           Center Freq 2.35600         Ref Offset 0.5         Galaxy           Ref Offset 0.5         Galaxy         Ref 20.00 d         Galaxy           0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0 <td>pt SA AC       00000 GHz II dB</td> <td>PNO: Fast</td> <td>SENSE: INT</td> <td>ALIGN AUTO Avg Type: Log-Pv</td> <td>03:54:38 PMNbv 06, 202 TRACE 12 3 4 5 D0 TYPE MWWWW DET P NNNN Mkr1 2.403 0 GH -3.071 dBn</td>	pt SA AC       00000 GHz II dB	PNO: Fast	SENSE: INT	ALIGN AUTO Avg Type: Log-Pv	03:54:38 PMNbv 06, 202 TRACE 12 3 4 5 D0 TYPE MWWWW DET P NNNN Mkr1 2.403 0 GH -3.071 dBn
glient Spectrum Analyzer - Swe           R         RF         50 @           Center Freq 2.35600         Ref Offset 0.5         Ref 20,00 d           O dB/driv         Ref 20,00 d         Ref 20,00 d           0.0         0.00         0.00         0.00           0.00         0.00         0.00         0.00           0.00         0.00         0.00         0.00         0.00           0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.0	pt SA AC       00000 GHz II dB	PNO: Fast	SENSE: INT	ALIGN AUTO Avg Type: Log-Pv	03:54:38 PMNbv 06, 202 TRACE 12 3 4 5 D0 TYPE MWWWW DET P NNNN Mkr1 2.403 0 GH -3.071 dBn
glient Spectrum Analyzer - Swe           R         RF         50 @           Center Freq 2.35600         Ref Offset 0.5         Ref 20.00 d           0 dB/div         Ref 20.00 d         0         0           0.00         0.00         0.00         0         0           0.00         0.00         0         0         0         0           0.00         0.00         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 <td< td=""><td>pt SA AC       00000 GHz II dB</td><td>PNO: Fast -Gain:Low</td><td>SENSE:INT</td><td>ALIGN AUTO Avg Type: Log-Pv</td><td>03:54:38 PMINOV 06, 202 TRACE 12:24:5 0 TVFE MMMMM DET P NNNN Mkr1 2.403 0 GH -3.071 dBn -3.071 dBn -3.071</td></td<>	pt SA AC       00000 GHz II dB	PNO: Fast -Gain:Low	SENSE:INT	ALIGN AUTO Avg Type: Log-Pv	03:54:38 PMINOV 06, 202 TRACE 12:24:5 0 TVFE MMMMM DET P NNNN Mkr1 2.403 0 GH -3.071 dBn -3.071
glient Spectrum Analyzer - Swe           R         RF         50 0           Center Freq 2.35600         Ref Offset 0.5         Generation           0 dB/div         Ref 20.00 d         Generation         Generation           0 dB/div         Ref 20.00 d         Generation         Generation <thgeneration< th="">         Generation</thgeneration<>	pt SA AC       00000 GHz    dB	PNO: Fast -Gain:Low	SENSE:INT	ALIGN AUTO	03:54:38 PMNov 06, 202 TRACE 1 2 3 4 5 DO TRACE 1 2 3 4 5 DEF P N N N Mkr1 2.403 0 GH -3.071 dBn -3.071 dBn
glient Spectrum Analyzer - Swe           R         RF         50 Q           Center Freq 2.35600         Ref Offset 0.5         Generation           Ref Offset 0.5         Generation         Generation           0 dB/div         Ref 20.00 d         Generation           10.0         Generation         Generation           20.0         Generation         Generation           30.0         Generation         Generation	PIT 5A           AC         III           00000 GHz         III           i dB         III           IBM         III           I         III           III         IIII           IIII         IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	PNO: Fast -Gain:Low #VB	SENSE:INT  Trig: Free Run #Atten: 30 dB  W 300 kHz	ALIGN AUTO Avg Type: Log-Pv	03:54:38 PM Nov 06, 20 TRACE 1 23 45 0 TYPE M MMMM DET P NNNN Mkr1 2.403 0 GH -3.071 dBn -3.071 dBn -3.071 dBn -3.071 dBn -3.071 dBn -3.071 dBn -3.071 dBn
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glient Spectrum Analyzer - Swe 2 R RF 50 Ω Center Freq 2.35600 Ref Offset 0.5 0 dB/div Ref 20.00 d 0 0 0 0 0 0 0 0 0 0 0 0 0 0	pt 5A AC       0000 GHz                              	PNO: Fast -Gain:Low #VB #VB	SENSE:INT  Trig: Free Run #Atten: 30 dB  W 300 kHz  EUNETION dBm dBm dBm dBm	ALIGN AUTO	03:54:38 PMNov 06, 20 TRACE 0.23 4 5 00 TRACE 0.23 4 5 00 TRACE 0.23 4 5 00 TRACE 0.24 5 0 T
glient Spectrum Analyzer - Swe           R         RF         50 @           Center Freq 2.35600         Ref Offset 0.5         Ref 20.00 d           Ref 0ffset 0.5         Ref 20.00 d         Ref 20.00 d           Context Press	PI 5A AC        0000 GHz                             	PN0: Fast -Gain:Low #VB #VB (Δ) 3.071 -56.193 -60.320	SENSE:INT  Trig: Free Run #Atten: 30 dB  W 300 kHz  EUNETION dBm dBm dBm dBm	ALIGN AUTO	03:54:38 PMNov06,20 rr IRACE 23 4 5 TYPE MANNA DET P NNNN Mkr1 2.403 0 GH -3.071 dBr -3.071 dBr -4.076 -4.076 -4.076 -4.076 -4.076 -4.076 -4.076 -4.076 -4.076 -4.076 -4.076 -4.076 -4.076 -4.076 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0766 -4.0766 -4.0766 -4.0766 -4.0766 -4.0766 -4.0766 -4.0766 -4.0766 -4.0766 -4.0766 -4.0766 -4.0766 -4.0766 -4.0766 -4.0766 -4.0766 -4.0766 -4.0766 -4.0766 -4.0766 -4.0766 -4.0766 -4.07666 -4.07666 -4.076666 -4.076666 -4.076666 -4.0766666 -4.0766666 -4.0766666 -4.0766666 -4.0766666 -4.0766666 -4.0766666 -4.0766666 -4.07666666 -4.0766666 -4.07666666 -4.07666666 -4.07666666 -4.07666666666666666666666666666666666666
glient Spectrum Analyzer - Swe           R         RF         50 Ω           Center Freq 2.35600         Ref Offset 0.5         Galaxie           Ref Offset 0.5         Galaxie         Ref 20.00 d         Galaxie           0 dB/div         Ref 20.00 d         Galaxie         Galaxie         Galaxie           100         Ref 20.00 d         Galaxie	PI 5A AC        0000 GHz                             	PN0: Fast -Gain:Low #VB #VB (Δ) 3.071 -56.193 -60.320	SENSE:INT  Trig: Free Run #Atten: 30 dB  W 300 kHz  EUNETION dBm dBm dBm dBm	ALIGN AUTO	03:54:38 PMNov06,20 rr IRACE 23 4 5 TYPE MANNA DET P NNNN Mkr1 2.403 0 GH -3.071 dBr -3.071 dBr -4.076 -4.076 -4.076 -4.076 -4.076 -4.076 -4.076 -4.076 -4.076 -4.076 -4.076 -4.076 -4.076 -4.076 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0766 -4.0766 -4.0766 -4.0766 -4.0766 -4.0766 -4.0766 -4.0766 -4.0766 -4.0766 -4.0766 -4.0766 -4.0766 -4.0766 -4.0766 -4.0766 -4.0766 -4.0766 -4.0766 -4.0766 -4.0766 -4.0766 -4.0766 -4.07666 -4.07666 -4.076666 -4.076666 -4.076666 -4.0766666 -4.0766666 -4.0766666 -4.0766666 -4.0766666 -4.0766666 -4.0766666 -4.0766666 -4.07666666 -4.0766666 -4.07666666 -4.07666666 -4.07666666 -4.07666666666666666666666666666666666666
Billent Spectrum Analyzer - Swe         R         RF         50 Ω           Center Freq 2.35600         Ref Offset 0.5         0           Conter Freq 2.35600         Ref 20.00 d         0           Conter Freq 2.35600         GHz         0           Conter Freq 2.35600         GHz         0           Conter Freq 2.36600         GHz         0           Conter Freq 2.37         N 1 f         1           Conter Freq 2.38         1         1	PI 5A AC        0000 GHz                             	PN0: Fast -Gain:Low #VB #VB (Δ) 3.071 -56.193 -60.320	SENSE:INT  Trig: Free Run #Atten: 30 dB  W 300 kHz  EUNETION dBm dBm dBm dBm	ALIGN AUTO	03:54:38 PMNov06,20 rr IRACE 23 4 5 TYPE MANNA DET P NNNN Mkr1 2.403 0 GH -3.071 dBr -3.071 dBr -4.076 -4.076 -4.076 -4.076 -4.076 -4.076 -4.076 -4.076 -4.076 -4.076 -4.076 -4.076 -4.076 -4.076 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0776 -4.0766 -4.0766 -4.0766 -4.0766 -4.0766 -4.0766 -4.0766 -4.0766 -4.0766 -4.0766 -4.0766 -4.0766 -4.0766 -4.0766 -4.0766 -4.0766 -4.0766 -4.0766 -4.0766 -4.0766 -4.0766 -4.0766 -4.0766 -4.07666 -4.07666 -4.076666 -4.076666 -4.076666 -4.0766666 -4.0766666 -4.0766666 -4.0766666 -4.0766666 -4.0766666 -4.0766666 -4.0766666 -4.07666666 -4.0766666 -4.07666666 -4.07666666 -4.07666666 -4.07666666666666666666666666666666666666







ISG

Band Edge(Hopping) NVNT 3-DH5 2402MHz Hopping Ref 04:05:21 PM Nov 06, 202 TRACE 1 2 3 4 5 TYPE M WWWW DET P N N N N R SENSE:INT Center Freq 2.402000000 GHz Avg Type: Log-Pwr Avg|Hold: 2000/2000 Trig: Free Run #Atten: 30 dB PNO: Wide IFGain:Low Mkr1 2.401 720 GHz Ref Offset 0.5 dB Ref 20.00 dBm -5.241 dBm 10 dB/div 10. 0.00 -20. 30.0 40.1 -50.0 m -60.1 70. Center 2.402000 GHz Span 8.000 MHz #VBW 300 kHz Sweep 1.00 ms (1001 pts) #Res BW 100 kHz STATUS MSG Band Edge(Hopping) NVNT 3-DH5 2402MHz Hopping Emission nt Spectrum Analyzer - Swept SA R Center Freq 2.356000000 GHz RACE 1 2 3 4 5 TYPE M Avg Type: Log-Pwr Avg|Hold: 1000/1000 PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 30 dB Mkr1 2.402 0 GHz Ref Offset 0.5 dB Ref 20.00 dBm -3.794 dBm 10 dB/div Log 0.00 10.0 20.0 30.0 40.0 -50.0  $\langle \rangle$  $\langle \rangle$ -60.0 Start 2.30600 GHz #Res BW 100 kHz Stop 2.40600 GHz #VBW 300 kHz Sweep 9.60 ms (1001 pts) MKR MODE TRC SCL FUNCTION FUNCTION WIDTH UNCTION VALUE 2.402 0 GHz (Δ) 2.400 0 GHz 2.390 0 GHz 2.384 8 GHz -3.794 dBm -55.930 dBm -60.162 dBm -57.756 dBm NNNN (Δ) f f f

STATUS



Band Edge(Hopping) NVNT 3-DH5 2480MHz Hopping Ref 04:07:11 PM Nov 06, 202 TRACE 1 2 3 4 5 TYPE M WWWW DET P N N N N R SENSE:INT Center Freq 2.480000000 GHz Avg Type: Log-Pwr Avg|Hold: 2000/2000 Trig: Free Run #Atten: 30 dB PNO: Wide IFGain:Low Mkr1 2.480 072 GHz Ref Offset 0.5 dB Ref 20.00 dBm 10 dB/div Log -2.249 dBm 10. MM -20. 30.0 40.1 lla. -50.0 -60.1 70 r Center 2.480000 GHz Span 8.000 MHz #VBW 300 kHz Sweep 1.00 ms (1001 pts) #Res BW 100 kHz STATUS MSG Band Edge(Hopping) NVNT 3-DH5 2480MHz Hopping Emission nt Spectrum Analyzer - Swept SA 23 PM Nov 06, 202 TRACE 1 2 3 4 5 TYPE MWWWW DET P N N N N R Center Freq 2.526000000 GHz Avg Type: Log-Pwi Avg|Hold: 700/700 PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 30 dB Mkr1 2.479 8 GHz Ref Offset 0.5 dB Ref 20.00 dBm -1.645 dBm 10 dB/div Log 0.00 10.0 20.0 30.0 40.0  $\langle \rangle^3$ -50.0  $\wedge^2$ -60.0 70.0 Start 2.47600 GHz #Res BW 100 kHz Stop 2.57600 GHz #VBW 300 kHz Sweep 9.60 ms (1001 pts) MKR MODE TRC SCL FUNCTION FUNCTION WIDTH UNCTION VALUE 2.479 8 GHz (Δ) 2.483 5 GHz 2.500 0 GHz 2.486 4 GHz -1.645 dBm -57.490 dBm -58.977 dBm -45.968 dBm NNNN (Δ) f f f 2 3 4 5 6 7 8 9 10 11 12 STATUS ISG

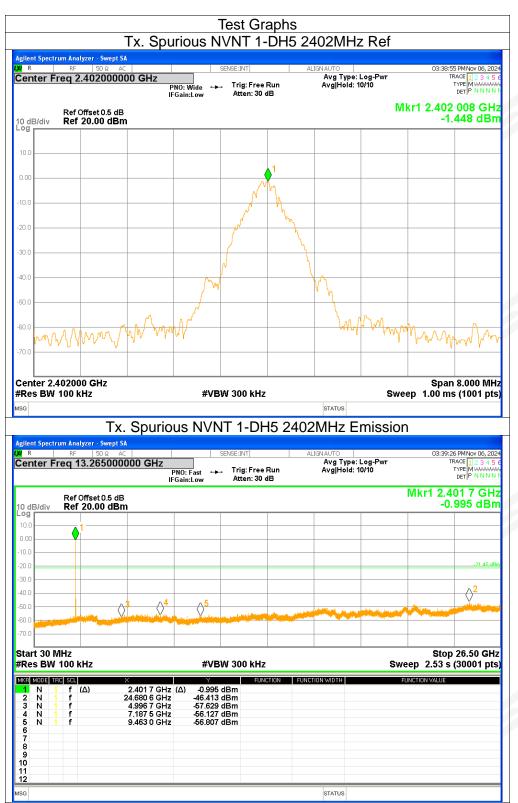


# 8. Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	-44.96	<=-20	Pass
NVNT	1-DH5	2441	-46.85	<=-20	Pass
NVNT	1-DH5	2480	-47.57	<=-20	Pass
NVNT	2-DH5	2402	-41.78	<=-20	Pass
NVNT	2-DH5	2441	-43.47	<=-20	Pass
NVNT	2-DH5	2480	-44.72	<=-20	Pass
NVNT	3-DH5	2402	-44.21	<=-20	Pass
NVNT	3-DH5	2441	-44.3	<=-20	Pass
NVNT	3-DH5	2480	-44.93	<=-20	Pass



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Arg Type: Log-Pur Arg Type: Log-Pur Arg 100100 GHz Provide to 5 dB Ref 20.00 dBm 1000 GHz 00 kHz 1000 GHz 1000	pectrum Analyzer - Swej						
Mkr1 2.440 976 GH -1.130 dBm           Mkr1 2.441 4H -1.130 dBm           Mkr1 2.441 4H -1.130 dBm           Mkr1 2.441 4GH -1.471 dBm           Mkr1 2.4		0000 GHz		e Run	Avg Type: Log-Pwi	03:40: r	59 PM Nov 06, 2024 IRACE 1 2 3 4 5 6 TYPE M WWWWW DET P N N N N N
No. 1000 GHz         Span 8.000 MHz           1000 GHz         #VBW 300 kHz         Span 8.000 MH           1000 GHz         #VBW 300 kHz         Status           1000 GHz         Span 8.000 MH         Status           1000 GHz         #VBW 300 kHz         Status           1000 GHz         Status         Status <t< th=""><th></th><th>dB</th><th></th><th></th><th></th><th></th><th></th></t<>		dB					
And Yeer - Sweep 1.00 GHz status Tx. Spurious NVNT 1-DH5 2441MHz Emission Tx. Spurious NVNT 1-DH5 2441MHz Emission Tx. Spurious NVNT 1-DH5 2441MHz Emission Analyzer - Sweep 1.00 Trace Elization Analyzer - Sweep 1.00 Trace Elization Avg Type: Log-Pwr Avg Type: Log-Pwr Avg Type: Log-Pwr Avg Type: Log-Pwr Avg Type: Log-Pwr Trace Elization Trace Elization Trace Elization Trace Elization Avg Type: Log-Pwr Avg Type: Log-Pwr Avg Type: Log-Pwr Avg Type: Log-Pwr Avg Type: Log-Pwr Trace Elization Trace Elization Trace Elization Trace Elization Avg Type: Log-Pwr Avg Type: Log-Pwr Avg Type: Log-Pwr Avg Type: Log-Pwr Avg Type: Log-Pwr Avg Type: Log-Pwr Avg Type: Log-Pwr Trace Elization Trace Elization Avg Type: Log-Pwr Avg Type: Log-Pwr A	Ref 20.00 a	Bm				-	
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00 kHz #VBW 300 kHz Sweep 1.00 ms (1001 pts status Tx. Spurious NVNT 1-DH5 2441MHz Emission Analyzer - Swept SA PR 50 AC SENSEINT ALIGNAUTO 0341:15 PMN00:06, 202 PNO: Fast → Trig: Free Run Arten: 30 dB Ref Offset 0.5 dB Ref 20.00 dBm 1742 (2) 2 3 4 1440 (2) 2 3 4 4 5 1440 (2) 2 3 4 4 5 1440 (2) 2 3 4 4 5 1440 (2) 2 3 (2) 2 3 (2) 2 1440 (2) 2 1440 (2) 2 1440 (2) 2 1440 (2) 2 1440 (2) 2	Andrealer	Ann	W		. my have	woman	1 mm mmmm
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Nalyzer - Swept SA         PF       S0 Ω       AC       SENSE:INT       ALIGNAUTO       03:41:15 PMNov 06, 202         Igg 13.265000000 GHz       PNO: Fast IFGain:Low       Trig: Free Run Atten: 30 dB       Avg Type: Log-Pwr AvgI Hold: 5/8       Trig: Free Run Avg Type: Log-Pwr AvgI Hold: 5/8       Mkr1 2.441 4 GH         Ref Offset 0.5 dB Ref 20.00 dBm       -1.471 dBm       -1.471 dBm       -1.471 dBm         1       -1       -1       -1       -1         1       -1       -1       -1       -2113 dB         1       -1       -1       -1       -2113 dB         1       -1       -1       -1       -2113 dB         1       -5       -5       -213 dB         1       -5       -5       -213 dB         1       -5       -5       -5         1       -5       -5       -5         1       -5       -5       -5         1       -5       -5       -5         1       -5       -5       -5 <tr< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th>. (</th></tr<>							. (
RF         S0 Ω         AC         SENSE:INT         ALISNAUTO         03:41:15 PM(broß, 20 3:41:15 PM(broß, 20 4) 3:4 - 5           Ig         13.265000000 GHz         PN0: Fast IFGain:Low         Trig: Free Run Atten: 30 dB         Aug Type: Log-Pwr Avg Typ	Т	x. Spurio	us NVNT 1-D	H5 2441N	/Hz Emiss	sion	
PNO: Fast IFGain:Low         Trig: Free Run Atten: 30 dB         Avg Held: 5/6         TVPE [Mwwww DET [* NNN           Ref Offset 0.5 dB         Mkr1 2.441 4 GH -1.471 dBn         -1.471 dBn         -1.471 dBn           1						SION	
Ref Offset 0.5 dB Ref 20.00 dBm         Mkr1 2.441 4 GH -1.471 dBn           1         -           2         -           3         -           4         -           5         -           4         -           5         -           4         -           5         -           4         -           5         -           6         -           6         -           6         -           7         -           6         -           6         -           6         -	RF 50 Ω	AC	SENSE:INT		NAUTO	03:41:	15 PM Nov 06, 2024
1         .2113 dB           2         .2113 dB           2         .2113 dB           1         .2113 dB           .2111 dB         .2111 dB <td>RF 50 Ω</td> <td>AC 00000 GHz</td> <td>PNO: Fast ++ Trig: Fre</td> <td>ALIGI</td> <td>NAUTO Avg Type: Log-Pwi</td> <td>03:41:</td> <td>15 PM Nov 06, 2024 TRACE 1 2 3 4 5 6 TYPE M WWWWW DET P N N N N N</td>	RF 50 Ω	AC 00000 GHz	PNO: Fast ++ Trig: Fre	ALIGI	NAUTO Avg Type: Log-Pwi	03:41:	15 PM Nov 06, 2024 TRACE 1 2 3 4 5 6 TYPE M WWWWW DET P N N N N N
12         3         4         5           12         3         4         5           12         3         4         5           12         3         4         5           12         5         5           12         5         5           14         5         5           15         1         1           16         1         1           17         10         1           18         1         1           19         1         1           10         1         1           10         1         1           11         1         1           11         1         1           11         1         1           11         1         1           11         1         1           11         1         1           12         2         1           14         1         1           15         1         1           16         1         1           17         1         1           16	RF 50 Ω Freq 13.26500 Ref Offset 0.5	ac 000000 GHz II dB	PNO: Fast ++ Trig: Fre	ALIGI	NAUTO Avg Type: Log-Pwi	03:41: r Mkr1 2.4	
12         3         4         5           12         3         4         5           12         3         4         5           12         3         4         5           12         5         5           12         5         5           14         5         5           15         1         1           16         1         1           17         10         1           18         1         1           19         1         1           10         1         1           10         1         1           11         1         1           11         1         1           11         1         1           11         1         1           11         1         1           11         1         1           12         2         1           14         1         1           15         1         1           16         1         1           17         1         1           16	RF 50 Ω Freq 13.26500 Ref Offset 0.5	ac 000000 GHz II dB	PNO: Fast ++ Trig: Fre	ALIGI	NAUTO Avg Type: Log-Pwi	03:41: r Mkr1 2.4	
Iz         Stop 26.50 GH:           00 kHz         #VBW 300 kHz         Sweep 2.53 s (10001 pts)           Stop 26.20 GH:         Sweep 2.53 s (10001 pts)           1/2         2.441 4 GHz (Δ) -1.471 dBm         FUNCTION WIDTH           1/2         2.441 4 GHz (Δ) -1.471 dBm         FUNCTION WIDTH           1/2         2.53 4 GHz         47.980 dBm           1/2         57.349 dBm         57.349 dBm	RF 50 Ω Freq 13.26500 Ref Offset 0.5	ac 000000 GHz II dB	PNO: Fast ++ Trig: Fre	ALIGI	NAUTO Avg Type: Log-Pwi	03:41: r Mkr1 2.4	
Iz         Stop 26.50 GH:           00 kHz         #VBW 300 kHz         Sweep 2.53 s (10001 pts)           Stop 26.20 GH:         Sweep 2.53 s (10001 pts)           1/2         2.441 4 GHz (Δ) -1.471 dBm         FUNCTION WIDTH           1/2         2.441 4 GHz (Δ) -1.471 dBm         FUNCTION WIDTH           1/2         2.53 4 GHz         47.980 dBm           1/2         57.349 dBm         57.349 dBm	RF 50 Ω Freq 13.26500 Ref Offset 0.5	ac 000000 GHz II dB	PNO: Fast ++ Trig: Fre	ALIGI	NAUTO Avg Type: Log-Pwi	03:41: r Mkr1 2.4	
Iz         Stop 26.50 GH:           00 kHz         #VBW 300 kHz         Sweep 2.53 s (10001 pts)           Stop 26.20 GH:         Sweep 2.53 s (10001 pts)           1/2         2.441 4 GHz (Δ) -1.471 dBm         FUNCTION WIDTH           1/2         2.441 4 GHz (Δ) -1.471 dBm         FUNCTION WIDTH           1/2         2.53 4 GHz         47.980 dBm           1/2         57.349 dBm         57.349 dBm	RF 50 Ω Freq 13.26500 Ref Offset 0.5	ac 000000 GHz II dB	PNO: Fast ++ Trig: Fre	ALIGI	NAUTO Avg Type: Log-Pwi	03:41: r Mkr1 2.4	IRACE 11 2 3 4 5 E TYPE MANNAN DET P NNNNN 441 4 GHz 471 dBm
00 kHz         #VBW 300 kHz         Sweep         2.53 s (10001 pts           scu         ×         Y         FUNCTION         FUNCTION VIDTH         FUNCTION VALUE           f         (Δ)         2.441 4 GHz         (Δ)         -1.471 dBm         FUNCTION         FUNCTION VIDTH         FUNCTION VALUE           f         25.237 4 GHz         -47.980 dBm         FUNCTION VIDTH         FUNCTION VIDTH         FUNCTION VIDTH	RF 50 Ω Freq 13.26500 Ref Offset 0.5	ac 000000 GHz II dB	PNO: Fast ++ Trig: Fre	ALIGI	VAUTO Avg Type: Log-Pwr Avg Type: Log-Pwr Avg Hold: 5/5	03:41: / /////////////////////////////////	IRACE 11 2 3 4 5 E TYPE MANNAN DET P NNNNN 441 4 GHz 471 dBm
00 kHz         #VBW 300 kHz         Sweep         2.53 s (10001 pts           scu         ×         Y         FUNCTION         FUNCTION VIDTH         FUNCTION VALUE           f         (Δ)         2.441 4 GHz         (Δ)         -1.471 dBm         FUNCTION         FUNCTION VIDTH         FUNCTION VALUE           f         25.237 4 GHz         -47.980 dBm         FUNCTION VIDTH         FUNCTION VIDTH         FUNCTION VIDTH	RF 50 Ω Freq 13.26500 Ref Offset 0.5	ac 000000 GHz II dB	PNO: Fast Trig: Fre FGain:Low Atten: 3	ALIG	VAUTO Avg Type: Log-Pwr Avg Type: Log-Pwr Avg Hold: 5/5	03:41: / /////////////////////////////////	IRACE 11 2 3 4 5 E TYPE MANNAN DET P NNNNN 441 4 GHz 471 dBm
f (Δ) 2.441 4 GHz (Δ) -1.471 dBm f 25.237 4 GHz -47.980 dBm f 5.001 1 GHz -57.348 dBm	RF   50 Ω Freq 13.26500 Ref Offset 0.5 Ref 20.00 dl 1	ac 000000 GHz II dB	PNO: Fast Trig: Fre FGain:Low Atten: 3	ALIG	VAUTO Avg Type: Log-Pwr Avg Type: Log-Pwr Avg Hold: 5/5	03:41: ///////////////////////////////////	ГРАСЕ [] 2 3 4 5 € турее [ 4 чумими рет   P N N N N N 441 4 GHz .471 dBm 
f 25.237 4 GHz 47.980 dBm f 5.001 1 GHz 57.348 dBm	RF         50 Ω           Freq 13.26500         Ref Offset 0.5           Ref 20.00 dl         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1 <tr< td=""><td>ac 000000 GHz II dB</td><td>PNO: Fast → Trig: Fro FGain:Low Atten: 3</td><td>ALIG</td><td>VAUTO Avg Type: Log-Pwr Avg Type: Log-Pwr Avg Hold: 5/5</td><td>03:41: Mkr1 2.4 -1</td><td>IRACE  1 2 3 4 5 с туре   4 4 GHz .471 dBm -2113 dBm -2113 dBm -2150 GHz</td></tr<>	ac 000000 GHz II dB	PNO: Fast → Trig: Fro FGain:Low Atten: 3	ALIG	VAUTO Avg Type: Log-Pwr Avg Type: Log-Pwr Avg Hold: 5/5	03:41: Mkr1 2.4 -1	IRACE  1 2 3 4 5 с туре   4 4 GHz .471 dBm -2113 dBm -2113 dBm -2150 GHz
f 7,216 6 GHz -56.1/1 dBm f 9.726 0 GHz -56.237 dBm	RF         50 Ω           Freq 13.26500         Ref Offset 0.5           Ref 20.00 dl         1           1         1           1         1           MHz         100 kHz           100 kHz         100 kHz	AC 00000 GHz U dB Bm	PNO: Fast → Trig: Fre FGain:Low Atten: 3	ALIG	Avg Type: Log-Pwr Avg Jype: Log-Pwr AvgJHold: 5/5	03:41: ///////////////////////////////////	IRACE  1 2 3 4 5 с туре   4 4 GHz .471 dBm -2113 dBm -2113 dBm -2150 GHz
	Ref         50 Ω           Freq         13.26500           Ref         00ffset           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1           1         1           1         1           1         1           1         1	AC 00000 GHz II dB Bm 2.441 4 GHz 2.5237 4 GHz 5.001 1 GHz	PNO: Fast → Trig: Fro FGain:Low Atten: 3	ALIG	Avg Type: Log-Pwr Avg Jype: Log-Pwr AvgJHold: 5/5	03:41: ///////////////////////////////////	IRACE  1 2 3 4 5 с туре   4 4 GHz .471 dBm -2113 dBm -2113 dBm -2150 GHz
	RF         50 Ω           Freq 13.26500         Ref Offset 0.5           Ref 20.00 dl         I           Image: Second classes         Image: Second classes           MHz         V 100 kHz           Image: Second classes         Image: Second classes	AC 00000 GHz II dB Bm 2.441 4 GHz 25.237 4 GHz 5.001 1 GHz 7.216 GHz	PN0: Fast → Trig: Frd FGain:Low Atten: 3	ALIG	Avg Type: Log-Pwr Avg Jype: Log-Pwr AvgJHold: 5/5	03:41: ///////////////////////////////////	IRACE  1 2 3 4 5 с туре   4 4 GHz .471 dBm -2113 dBm -2113 dBm -2150 GHz
	RF         50 Ω           Freq 13.26500         Ref Offset 0.5           Ref 20.00 dl         I           Image: Second classes         Image: Second classes           MHz         V 100 kHz           Image: Second classes         Image: Second classes	AC 00000 GHz II dB Bm 2.441 4 GHz 25.237 4 GHz 5.001 1 GHz 7.216 GHz	PN0: Fast → Trig: Frd FGain:Low Atten: 3	ALIG	Avg Type: Log-Pwr Avg Jype: Log-Pwr AvgJHold: 5/5	03:41: ///////////////////////////////////	IRACE  1 2 3 4 5 с туре   4 4 GHz .471 dBm -2113 dBm -2113 dBm -2150 GHz
STATUS	RF         50 Ω           Freq 13.26500         Ref Offset 0.5           Ref 20.00 dl         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1	AC 00000 GHz II dB Bm 2.441 4 GHz 25.237 4 GHz 5.001 1 GHz 7.216 GHz	PN0: Fast → Trig: Frd FGain:Low Atten: 3	ALIG	Avg Type: Log-Pwr Avg Jype: Log-Pwr AvgJHold: 5/5	03:41: ///////////////////////////////////	IRACE  1 2 3 4 5 с туре   4 4 GHz .471 dBm -2113 dBm -2113 dBm -2150 GHz

#### Sourious NIVNT 1-DH5 2441MHz Pot т.



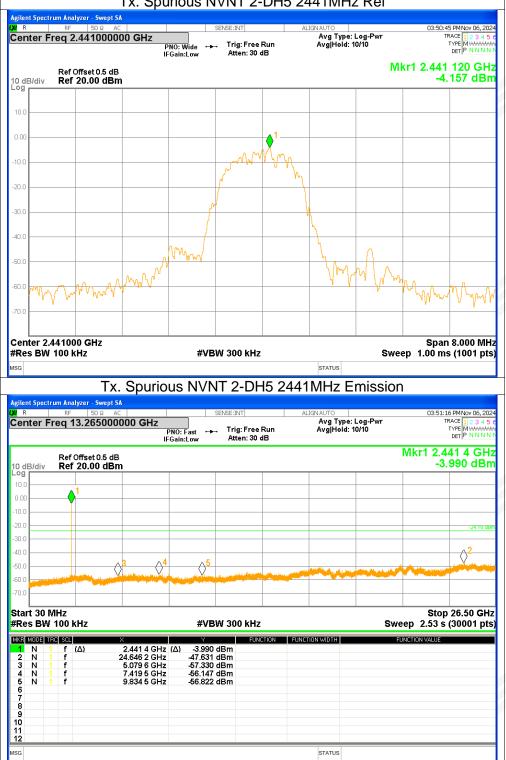
Spectrum Analyzer - Swept	Tx. Spu							
RF 50 Ω r Freq 2.480000	AC 000 GHz	PNO: Wide ↔	ENSE:INT Trig: Free R Atten: 30 dB	lun	GNAUTO Avg Type: L Avg Hold: 10		03:42	2:17 PM Nov 06, 2024 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N N
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BW 100 kHz T) pectrum Analyzer - Swept RF 50 Ω	ac 0000 GHz	S PNO: Fast	T 1-DH	ALIO		Missior	ep 1.00 r ר	ns (1001 pts) 2:33 PMNov 06, 2024 TRACE 12 3 4 5 6 1 YPE M MARAAMA
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3W 100 kHz T> netrum Analyzer - Swept RF 50 Ω r Freq 13.26500 Ref Offset 0.5 d	SA AC 0000 GHz II IB	S PNO: Fast	T 1-DH	ALIO	MHZ EI	Missior	ep 1.00 r ר 03:42 Mkr1 2.	ns (1001 pts)
3W 100 kHz T) rectrum Analyzer - Swept RF 50 @ r Freq 13.26500 Ref Offset 0.5 d iv Ref 20.00 dB	SA AC     00000 GHz   II B III B III C AC AC AC AC AC AC AC AC AC	PHO: Fast	T 1-DH		MHz Ei	missior 	Mkr1 2.	ns (1001 pts)
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30 MHz 30 MHz 30 MHz 30 MHz 31 f (Δ) f (Δ) f	5A AC 00000 GHz II B III B III C AC III III III AC III III	PHO: Fast FGain:Low #VBU (Δ) 1.219 c -48.014 c -57.412 c	T 1-DH		MHz Ei Avg Type: L Avg Hold: 5/	missior 	Mkr1 2.	ns (1001 pts)
pectrum Analyzer - Swept RF 50 Ω pr Freq 13.26500 Ref Offset 0.5 d Ref 20.00 dE 1 30 MHz BW 100 kHz 31 F (Δ) 1 f (Δ)	SA AC OO000 GHz II B m AC II II B M AC II II B M AC II II B M AC II II B M AC II II AC II II AC II II AC II II AC II II AC II II AC II II AC II II AC II AC II AC II AC II AC II AC II AC II AC II AC II AC II AC AC AC AC AC AC AC AC AC AC	PHO: Fast FGain:Low #VBU (Δ) 1.219 c -48.014 c -57.412 c	T 1-DH		MHz Ei Avg Type: L Avg Hold: 5/	missior 	Mkr1 2.	ns (1001 pts)
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nt Spectrum Analyz RF nter Freq 2.4	ter - Swept SA 50 Ω AC 102000000 GH	<b>1z</b> PNO: Wide ← IFGain:Low	SENSE:INT Trig: Free Run Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hoid: 10/10	T	5 PM Nov 06, 2024 RACE 1 2 3 4 5 6 TYPE M WWWWM DET P N N N N N
	fset 0.5 dB 0.00 dBm				Mkr1 2.401 -5.	904 GHz 567 dBm
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s BW 100 kH			вw 300 кнz NT 2-DH5 24	STATUS	weep 1.00 ms	s (1001 pts)
nt Spectrum Analyz	Tx. Sp	urious NV	NT 2-DH5 24	STATUS 102MHz Emissio Alignauto Avg Type: Log-Pwr	03:49:00 ۱۳	5 (1001 pts)
Spectrum Analyz	Тх. Sp rer - Swept SA 50 Ω АС	urious NV	NT 2-DH5 24	status 102MHz Emissio alignauto	03:49:09 TF	5 PMNov 06, 2024 ACC 1 2 3 4 5 6 TYPE MWWWWW DET P N N N N
t Spectrum Analyz RF ter Freq 13 Ref Of	Тх. Sp rer - Swept SA 50 Ω АС	urious NV	NT 2-DH5 24 SENSE:INT     → Trig: Free Run	STATUS 102MHz Emissio Alignauto Avg Type: Log-Pwr	ON 03:49:00 ™ Mkr1 2.44	5 PMNov 06, 2024 ACC 1 2 3 4 5 6 TYPE MWWWWW DET P N N N N
t Spectrum Analyz RF ter Freq 13 Ref Of	Tx. Sp 50 2 AC .265000000 G	urious NV	NT 2-DH5 24 SENSE:INT     → Trig: Free Run	STATUS 102MHz Emissio Alignauto Avg Type: Log-Pwr	ON 03:49:00 ™ Mkr1 2.44	5 (1001 pts)
Spectrum Analyz RF er Freq 13 Ref Of	Tx. Sp 50 2 AC .265000000 G	urious NV	NT 2-DH5 24 SENSE:INT     → Trig: Free Run	STATUS 102MHz Emissio Alignauto Avg Type: Log-Pwr	ON 03:49:00 ™ Mkr1 2.44	5 (1001 pts)
Spectrum Analyz RF er Freq 13 Ref Of	Tx. Sp 50 2 AC .265000000 G	urious NV	NT 2-DH5 24 SENSE:INT     → Trig: Free Run	STATUS 102MHz Emissio Alignauto Avg Type: Log-Pwr	ON 03:49:00 ™ Mkr1 2.44	5 (1001 pts)
Spectrum Analyz RF er Freq 13 Ref Of	Tx. Sp 50 2 AC .265000000 G	urious NV	NT 2-DH5 24 SENSE:INT     → Trig: Free Run	STATUS 102MHz Emissio Alignauto Avg Type: Log-Pwr	ON 03:49:00 ™ Mkr1 2.44	5 PMNov 06, 2024 AXCE [12:3:4:5 6 TYPE M YMAN N D1 7 GHz 934 dBm
t Spectrum Analyz RF ter Freq 13 Ref Of	Tx. Sp 50 2 AC .265000000 G	urious NV	NT 2-DH5 24 SENSE:INT     → Trig: Free Run	STATUS 102MHz Emissio Alignauto Avg Type: Log-Pwr	ON 03:49:00 ™ Mkr1 2.44	5 PMNov 06, 2024 AXCE [12:3:4:5 6 TYPE M YMAN N D1 7 GHz 934 dBm
t Spectrum Analyz RF ter Freq 13 Ref Of	Tx. Sp 50 2 AC .265000000 G	urious NV	NT 2-DH5 24 SENSE:INT     → Trig: Free Run	STATUS 102MHz Emissio Alignauto Avg Type: Log-Pwr	ON 03:49:00 ™ Mkr1 2.44	5 PMNov 06, 2024 AXCE [12:3:4:5 6 TYPE M YMAN N D1 7 GHz 934 dBm
nt Spectrum Analyz	Tx. Sp 50 Q AC .265000000 G fset 0.5 dB 0.00 dBm	Urious NV	NT 2-DH5 24 SENSE:INT     → Trig: Free Run	ALIGNAUTO AVIG TYPE: Log-Pwr AvigHold: 10/10	ON 03:49:07 Tr Mkr1 2.4 -4.	SPMNov 06, 2024 ACCE 12 3 4 5 C TYPE M WWWWWW 01 7 GHz 934 dBm 25.57 dBm 25.57 dBm 25.57 dBm 25.57 dBm 25.57 dBm
rt 30 MHz es BW 100 kH	Tx. Sp 50 2 AC .265000000 G fset 0.5 dB 0.00 dBm	Urious NV	NT 2-DH5 24 SENSE:INT □ Trig: Free Run Atten: 30 dB BW 300 kHz EUNETION	ALIGNAUTO AVIG TYPE: Log-Pwr AvigHold: 10/10	ON 03:49:07 Tr Mkr1 2.44 -4.	SPMNov 06, 2024 ACCE 12 3 4 5 C TYPE M WWWWWW 01 7 GHz 934 dBm 25.57 dBm 25.57 dBm 25.57 dBm 25.57 dBm 25.57 dBm
nt Spectrum Analyz nter Freq 13 Ref Of IB/div Ref 2 rt 30 MHz s BW 100 kH MO2 FFG SCL N 1 f (2)	Tx. Sp 50 Q AC .265000000 G fset 0.5 dB 0.00 dBm 	Urious NV	NT 2-DH5 24 SENSE:INT Trig:Free Run Atten: 30 dB SUBJOO KHZ EUNETION 4 dBm 5 dBm 3 dBm	ALIGNAUTO AVIG TYPE: Log-PWT AvigHold: 10/10	ON 03:49:00 Tr Mkr1 2.4 -4. -4. -4. 	SPMNov 06, 2024 ACCE 12 3 4 5 C TYPE M WWWWWW 01 7 GHz 934 dBm 25.57 dBm 25.57 dBm 25.57 dBm 25.57 dBm 25.57 dBm
nt Spectrum Analyz RF Iter Freq 13 B/div Ref Of P/div Ref 2 1 1 1 1 1 1 1 1 1 1 1 1 1	Tx. Sp so a AC .265000000 G fset 0.5 dB 0.00 dBm 	Urious NV Hz PNO: Fast FGain:Low 4 4 4 5 #V 7 GHz (Δ) 4.93 1 GHz 47.35 2 GHz 47.35 2 GHz 56.11	NT 2-DH5 24 SERVSE:JNT  Trig: Free Run Atten: 30 dB  U  BW 300 kHz  CUNCTION  4 dBm 5 dBm	ALIGNAUTO AVIG TYPE: Log-PWT AvigHold: 10/10	ON 03:49:00 Tr Mkr1 2.4 -4. -4. -4. 	SPMNov 06, 2024 ACCE 12 3 4 5 C TYPE M WWWWWW 01 7 GHz 934 dBm 25.57 dBm 25.57 dBm 25.57 dBm 25.57 dBm 25.57 dBm
nt Spectrum Analyz RF ter Freq 13 B/div Ref 07 B/div Ref 2 1 1 1 1 1 1 1 1 1 1 1 1 1	Tx. Sp so a AC .265000000 G fset 0.5 dB 0.00 dBm 	Urious NV Hz PNO: Fast FGain:Low 4 4 4 5 #V 7 GHz (Δ) 4.93 1 GHz 47.35 2 GHz 47.35 2 GHz 56.11	NT 2-DH5 24  SENSE:INT  Trig: Free Run Atten: 30 dB  BW 300 kHz  UNETION 4 dBm 5 dBm 3 dBm 4 dBm 5 dB	ALIGNAUTO AVIG TYPE: Log-PWT AvigHold: 10/10	ON 03:49:00 Tr Mkr1 2.4 -4. -4. -4. 	SPMNov 06, 2024 ACCE 12 3 4 5 C TYPE M WWWWWW 01 7 GHz 934 dBm 25.57 dBm 25.57 dBm 25.57 dBm 25.57 dBm 25.57 dBm
Spectrum Analyz RF er Freq 13 /div Ref 07 /div Ref 2 1 30 MHz 30 MHz BW 100 KH 009 12 50 (10) 1 f N 1 f N 1 f	Tx. Sp so a AC .265000000 G fset 0.5 dB 0.00 dBm 	Urious NV Hz PNO: Fast FGain:Low 4 4 4 5 #V 7 GHz (Δ) 4.93 1 GHz 47.35 2 GHz 47.35 2 GHz 56.11	NT 2-DH5 24  SENSE:INT  Trig: Free Run Atten: 30 dB  BW 300 kHz  UNETION 4 dBm 5 dBm 3 dBm 4 dBm 5 dB	ALIGNAUTO AVIG TYPE: Log-PWT AvigHold: 10/10	ON 03:49:00 Tr Mkr1 2.4 -4. -4. -4. 	SPMNov 06, 2024 ACCE 12 3 4 5 C TYPE M WWWWWW 01 7 GHz 934 dBm 25.57 dBm 25.57 dBm 25.57 dBm 25.57 dBm 25.57 dBm

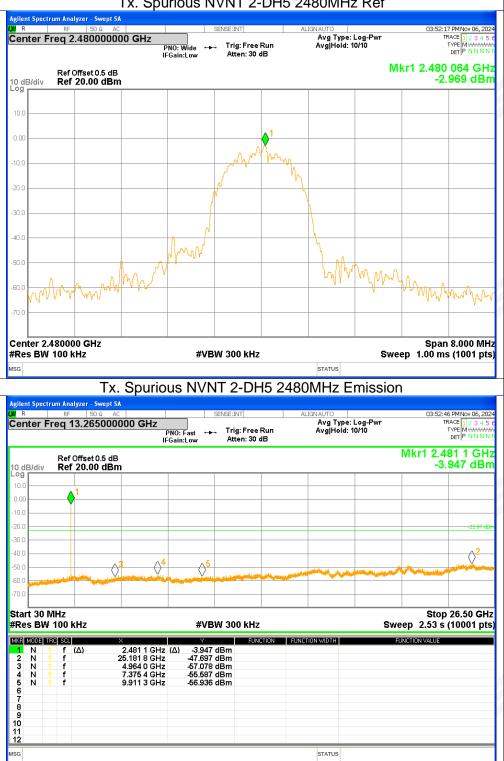
## Tx Sourious NIVNT 2-DH5 2402MHz Ref





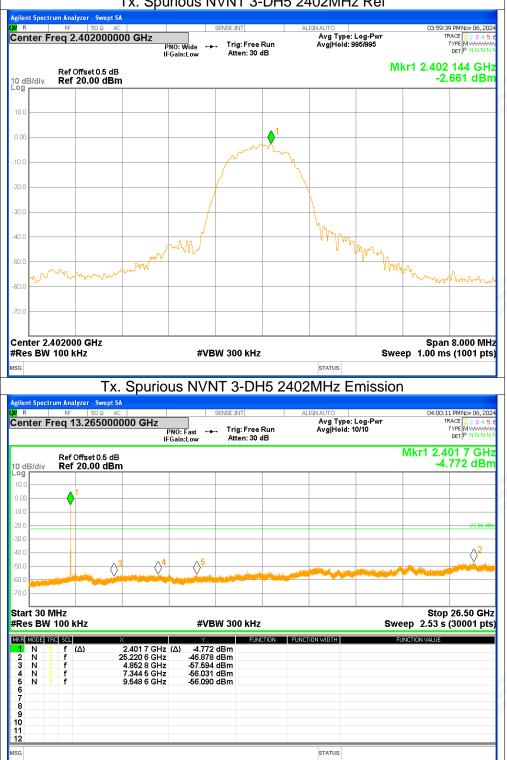
Tx. Spurious NVNT 2-DH5 2441MHz Ref





#### Tx. Spurious NVNT 2-DH5 2480MHz Ref





Tx. Spurious NVNT 3-DH5 2402MHz Ref



Interview       Trig: Free Run Atten: 30 dB       AvgHeid: 1000/1000       Trig: Free Run Atten: 30 dB         Ref Offset 0.5 dB       Mkr1 2.441 144       -2.981 c         Image: Status       Image: Status       Image: Status         Image: Status       Image: Status       Image: Status         Image: Status	GHz 💋
Image: status         Image: status           Image: status         Image: status	
M M M M M M M M M M M M M M M M M M M	
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M M M M M M M M M M M M M M M M M M M	m
11000 GHz 00 kHz #VBW 300 kHz Span 8.000 status	
00 kHz #VBW 300 kHz Sweep 1.00 ms (100 status	
00 kHz #VBW 300 kHz Sweep 1.00 ms (100 status	
00 kHz #VBW 300 kHz Sweep 1.00 ms (100 status	) MHz
	1 pts)
n Analyzer - Swept SA RF   50 Ω AC   SENSE:INT   ALIGNAUTO   04:01:45 PM Nov PG 13.265000000 GHz Avg Type: Log-Pwr TRACE 12 PNO: East →→ Trig: Free Run Avg Hold: 10/10 TVPE MM	3456
Ref Offset 0.5 dB Mkr1 2.440 5	
Ref 20.00 dBm -5.793 d	dBm
	2.30 0.511
	2
12 Stop 26.50	
00 kHz #VBW 300 kHz Sweep 2.53 s (3000	
	) GHz 1 pts)
SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE	GHz 1 pts)
SCL         X         Y         FUNCTION         FUNCTION WIDTH         FUNCTION WIDTH         FUNCTION WALUE           f         (Δ)         2.440 5 GHz         (Δ)         5.793 dBm         F         5.147 4 GHz         47.282 dBm         F         56.747 4 GHz         -47.282 dBm         F         7.437 2 GHz         -56.741 dBm         F         7.437 2 GHz         -55.207 dBm         F         -55.207 dBm         -55.207 dBm	) GHz 1 pts)
SCL         X         Y         FUNCTION         FUNCTION WIDTH         FUNCTION VALUE           f         (Δ)         2.440 5 GHz         (Δ)         5.793 dBm         f         25.147 4 GHz         -47.282 dBm           f         4.959 6 GHz         -66.741 dBm         6         -66.741 dBm         -	9 GHz 1 pts)



		PNO:Wide ↔	Trig: Free Run Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 1000/1000	TRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N
Ref Offset 0.5 dE Ref 20.00 dBr	3	FGain:Low	Atten: 30 dB	1	Mkr1 2.480 144 GHz -2.328 dBm
V Ref 20.00 dBr					
			1		
			m m	<i>∀</i>	
		/	/		
		~		man	
	m	hall		Vinger	A
mont	man				~ Mon when when
480000 GHz					Span 8.000 MHz
100 kHz			V 300 kHz		
				status 480MHz Emissio	veep 1.00 ms (1001 pts)
Tx trum Analyzer - Swept S RF 50 Q A Freq 13.265000	5A Ic       1000 GHz	us NVN		STATUS	
t <mark>rum Analyzer - Swept</mark> S RF 50 Ω A	5A IC     IOOOO GHz   IF B		T 3-DH5 24	STATUS 480MHz Emissio Alignauto Avg Type: Log-Pwr	04:03:33 PMNov 06, 2024 TRACE 1 2 3 4 5 6 TYPE [M WAMMAN
rum Analyzer - Swept S RF 50 Ω A Freq 13.265000 Ref Offset 0.5 dE	5A IC     IOOOO GHz   IF B		T 3-DH5 24	STATUS 480MHz Emissio Alignauto Avg Type: Log-Pwr	ON 04:03:33 PM Nov 06, 202 TRACE 2 3 4 5 6 TYPE M WWWWW DET P N N N N Mkr1 2.480 2 GHz
rum Analyzer - Swept S RF 50 Ω A Freq 13.265000 Ref Offset 0.5 dE	5A IC     IOOOO GHz   IF B		T 3-DH5 24	STATUS 480MHz Emissio Alignauto Avg Type: Log-Pwr	ON 04:03:33 PM Nov 06, 202 TRACE 2 3 4 5 6 TYPE M WWWWW DET P N N N N Mkr1 2.480 2 GHz
rum Analyzer - Swept S RF 50 Ω A Freq 13.265000 Ref Offset 0.5 dE	5A IC     IOOOO GHz   IF B		T 3-DH5 24	STATUS 480MHz Emissio Alignauto Avg Type: Log-Pwr	ON 04:03:33 PM Nov 06, 202 TRACE 2 3 4 5 6 TYPE M WWWWW DET P N N N N Mkr1 2.480 2 GHz
rum Analyzer - Swept S RF 50 Ω A Freq 13.265000 Ref Offset 0.5 dE	5A IC     IOOOO GHz   IF B		T 3-DH5 24	STATUS 480MHz Emissio Alignauto Avg Type: Log-Pwr	ON 04:03:33 PM Nov 06, 202 TRACE 2 3 4 5 6 TYPE M WWWWW DET P N N N N Mkr1 2.480 2 GHz
rum Analyzer - Swept S RF 50 Ω A Freq 13.265000 Ref Offset 0.5 dE	5A IC     IOOOO GHz   IF B		T 3-DH5 24	STATUS 480MHz Emissio Alignauto Avg Type: Log-Pwr	ON 04:03:33 PM Nov 06, 202 TRACE 2 3 4 5 6 TYPE M WWWWW DET P N N N N Mkr1 2.480 2 GHz
rum Analyzer - Swept S RF 50 Ω A Freq 13.265000 Ref Offset 0.5 dE	5A IC     IOOOO GHz   IF B		T 3-DH5 24	STATUS 480MHz Emissio Alignauto Avg Type: Log-Pwr	ON 04:03:33 PM Nov 06, 202 TRACE 2 3 4 5 6 TYPE M WWWWW DET P N N N N Mkr1 2.480 2 GHz
rum Analyzer - Swept S RF 50 Ω A req 13.265000 Ref Offset 0.5 dE	5A IC     IOOOO GHz   IF B	US NVN SE PHO: Fast → FGain:Low	T 3-DH5 24	ALIGNAUTO AVG Type: Log-Pwr Avg Hold: 10/10	DN D4:03:33 PMNov 06, 202- TRACE 1 2 3 4 5 6 TYPE MWWWWW Mkr1 2.480 2 GHz -4.884 dBm -22.33 dBm -22.33 dBm -22.53 dBm -22.53 s (30001 pts)
rum Analyzer - Swept S RF 50 Ω A req 13.265000 Ref Offset 0.5 dE Ref 20.00 dBr 1 1 1 1 1 1 1 1 1 1 1 1 1	54 50000 GHz 11 3 m 3 3 4 3 4 2 480 2 GHz	US NVN SE PNO: Fast → FGain:Low #VBW (△) × 4.884 d	T 3-DH5 24	ALIGNAUTO AVG Type: Log-Pwr Avg Hold: 10/10	04:03:33 PMNov 06, 202- ITRACE 1 2 3 4 5 6 TYPE MWWWWW Mkr1 2.480 2 GHz -4.884 dBm 22.33 dBm 22.33 dBm 22.33 dBm 22.33 dBm 22.33 dBm 22.33 dBm 22.33 dBm 23.33 dBm 23.33 dBm 24.550 GHz
num Analyzer - Swept S           RF         50 g Δ           req 13.265000           Ref Offset 0.5 dE           Ref 20.00 dBr           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1           1	54 50000 GHz 16 3 m 2.480 2 GHz 2.480 2 GHz 2.5266 5 GHz 5.148 4 GHz	US NVN PNC: Fast → FGain:Low #VEW (Δ) 4.884 d 4.729 d 56.487 d 56.487 d 56.487 d 56.487 d 56.487 d	T 3-DH5 24	STATUS	DN D4:03:33 PMNov 06, 202- TRACE 1 2 3 4 5 6 TYPE MWWWWW Mkr1 2.480 2 GHz -4.884 dBm -22.33 dBm -22.33 dBm -22.53 dBm -22.53 s (30001 pts)
rum Analyzer - Swept S RF 50 Ω A Freq 13.265000 Ref Offset 0.5 dE Ref 20.00 dBr 1 1 1 1 1 1 1 1 1 1 1 1 1	54 50000 GHz 10 3 m 2,480 2 GHz 25,266 5 GHz 5,148 4 GHz	US NVN PNO: Fast → FGain:Low #VBW (Δ) 4.884 d 4.7269 d 56.487 d 56.487 d 56.487 d	T 3-DH5 24	STATUS	DN D4:03:33 PMNov 06, 202- TRACE 1 2 3 4 5 6 TYPE MWWWWW Mkr1 2.480 2 GHz -4.884 dBm -22.33 dBm -22.33 dBm -22.53 dBm -22.53 s (30001 pts)
mr Analyzer       Swept S         RF       50 Ω       A         eq       13.265000       B         Ref Offset 0.5 dE       Ref 20.00 dBr         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1 <t< td=""><td>54 3 3 3 4 3 2.480 2 GHz 2.5266 5 GHz 5.148 4 GHz 5.148 4 GHz</td><td>US NVN PNC: Fast → FGain:Low #VEW (Δ) 4.884 d 4.729 d 56.487 d 56.487 d 56.487 d 56.487 d 56.487 d</td><td>T 3-DH5 24</td><td>STATUS</td><td>DN D4:03:33 PMNov 06, 202- TRACE 1 2 3 4 5 6 TYPE MWWWWW Mkr1 2.480 2 GHz -4.884 dBm -22.33 dBm -22.33 dBm -22.53 dBm -22.53 s (30001 pts)</td></t<>	54 3 3 3 4 3 2.480 2 GHz 2.5266 5 GHz 5.148 4 GHz 5.148 4 GHz	US NVN PNC: Fast → FGain:Low #VEW (Δ) 4.884 d 4.729 d 56.487 d 56.487 d 56.487 d 56.487 d 56.487 d	T 3-DH5 24	STATUS	DN D4:03:33 PMNov 06, 202- TRACE 1 2 3 4 5 6 TYPE MWWWWW Mkr1 2.480 2 GHz -4.884 dBm -22.33 dBm -22.33 dBm -22.53 dBm -22.53 s (30001 pts)
- Swept S 50 Ω A 65000 65000	5A IC     IOOOO GHz   IF B		T 3-DH5 24	STATUS 480MHz Emissio Alignauto Avg Type: Log-Pwr	DN D4:03:33 PM Nov 06, 2024 ITRACE 1 2 3 4 5 6 TYPE MUMUMUM DET P NNNN Mkr1 2.480 2 GHz -4.884 dBm -22.33 dBm -22.33 dBm -22.33 dBm

## Tx. Spurious NVNT 3-DH5 2480MHz Ref



### **APPENDIX 2-PHOTOS OF TEST SETUP**

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

\* \* \* \* END OF THE REPORT \* \* \* \*